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2	DETAIL SHEET
3	DETAIL SHEET
4	ROAD PLAN - SWEET HOURS WAY
5	ROAD PLAN - WEATHER WORN WAY, SWEET HOURS WAY, LILAC SEA, MOON PORTRAIT WAY
6	ROAD PLAN - SWEET HOURS WAY, ~~GOLDEN FLEECE~~ MICKEY'S PRIDE
7	ROAD PLAN - YELLOW BONNET PLACE, RED CRAVAT COURT, BROADCLOTH WAY
8	ROAD PLAN - MIDAS TOUCH, INDIAN PIPE COURT, NEW GRACE MEWS, SUMMER LEAVE LANE, WEATHER WORN WAY
9	ROAD PROFILE - WEATHER WORN WAY
10	ROAD PROFILE - SUMMER LEAVE LANE, MIDAS TOUCH
11	ROAD PROFILE - INDIAN PIPE COURT, NEW GRACE MEWS, ~~GOLDEN FLEECE~~ LILAC SEA
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13	ROAD PROFILE - SWEET HOURS WAY
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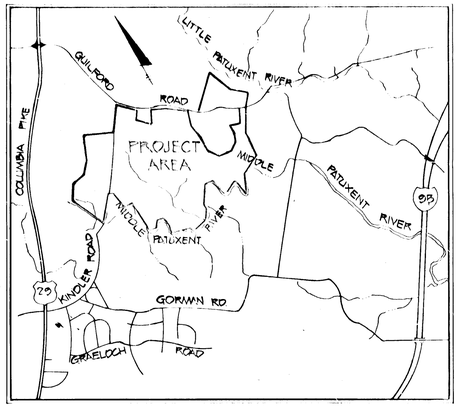
16	DRAINACE AREA MAP
17	DRAINAGE AREA MAP
18	DRAINAGE AREA MAP
19	DRAINAGE AREA MAP
20	STORM DRAIN PROFILES
21	STORM DRAIN PROFILES
22	STORM DRAIN PROFILES
23	SEDIMENT CONTROL PLAN
24	SEDIMENT CONTROL PLAN
25	SEDIMENT CONTROL PLAN
26	SEDIMENT CONTROL PLAN
27	SEDIMENT CONTROL DETAILS

VILLAGE OF KINGS CONTRIVANCE

SECTION 2, AREA 3, PHASE 3

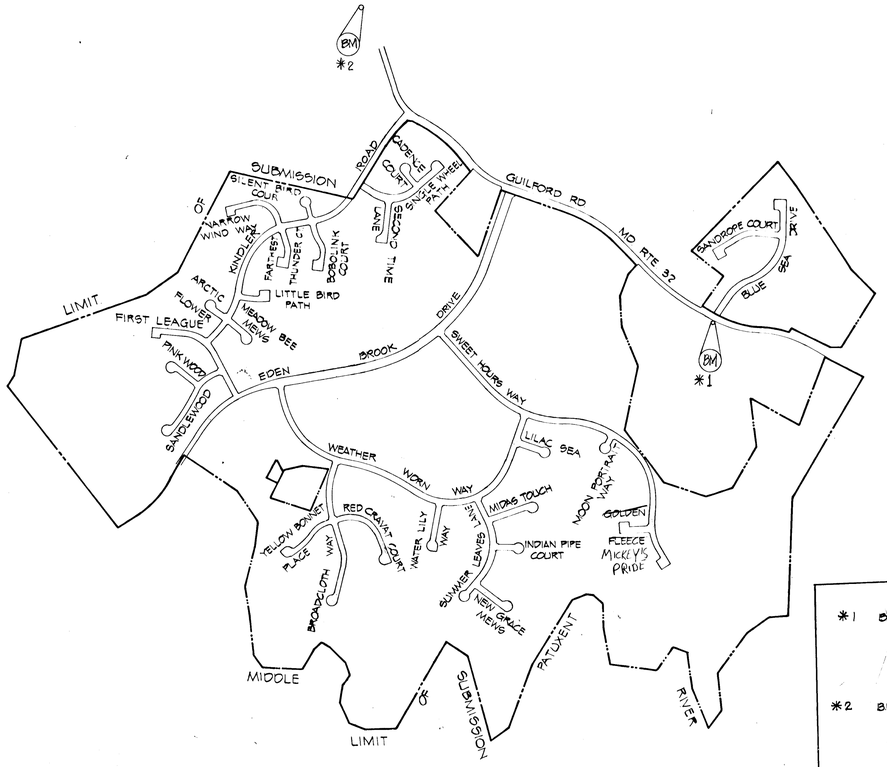
6TH. ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
Scale: 1" = 2000'

ALL CONSTRUCTION SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS



PLAN
Scale: 1" = 600'

Bench Mark
*1 BM #2240001 Elev. = 322.627
Description
Concrete Monument 16'± S. of S. Edge Rd. N486100.360 E838811.356

Bench Mark
*2 BM. #2340002-R Elev. = 362.611
Description
R.B. 18'± W. of W. Edge Rd. 7' Below Surface N488830.177 E836802.852

AS BUILD SURVY CERTIFIED BY RICHARD T. LAUF REG-LS # 301 11-6-86

5-22-81
Date

Professional Engr. No. 10551

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 7/14/81
DEPARTMENT OF PLANNING AND ZONING
CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADM'N — DATE 6-30-81

Date	No	Revision Description
11/1/82		Eden Brook Lane to Eden Brook Drive

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

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

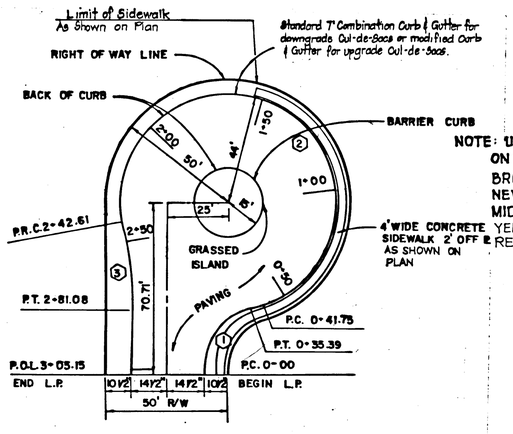
TITLE
TITLE SHEET

Des By JWR	Scale: As Shown	Proj No 0870
Drn By TD	Date 3-7-80	Drawing No. 1 OF 27
Chk By GPM	Approved	

5-5-88 AS-BUILT

F 81-19

BRUNING 44-132 28586



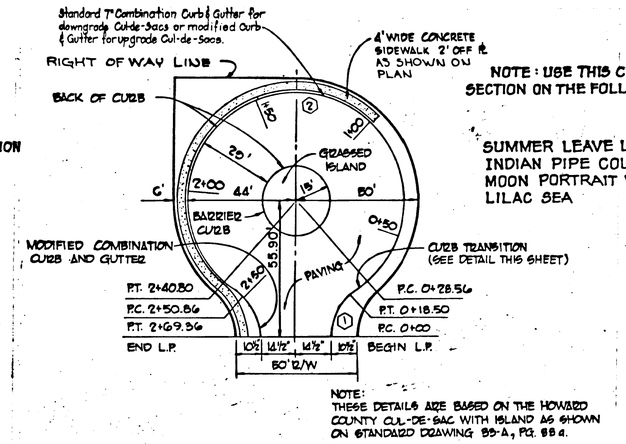
NOTE: USE THIS CUL-DE-SAC SECTION ON THE FOLLOWING ROADS.

BROADCLOTH WAY
NEW GRACE MEWS
MIDAS TOUCH
YELLOW BONNET PLACE
RED CRAVAT COURT

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'

CUL-DE-SAC FOR 50' R/W

Scale: 1"=30'



NOTE: USE THIS CUL-DE-SAC SECTION ON THE FOLLOWING ROADS.

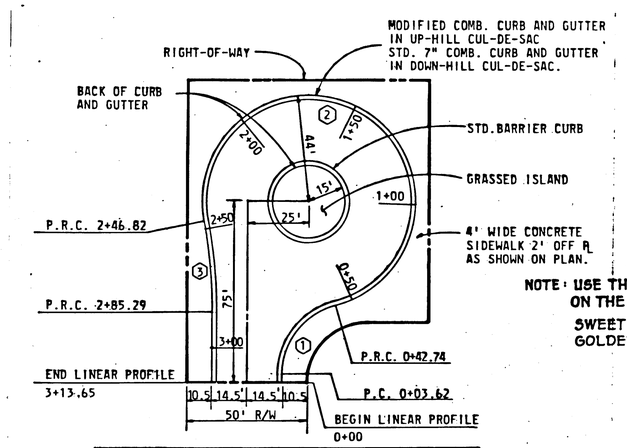
SUMMER LEAVE LANE
INDIAN PIPE COURT
MOON PORTRAIT WAY
LILAC SEA

NOTE:
THESE DETAILS ARE BASED ON THE HOWARD COUNTY CUL-DE-SAC WITH ISLAND AS SHOWN ON STANDARD DRAWING 89-A, PG. 88 a.

CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
1	22.00'	18.50'	48°11'23"	9.84'
2	44.00'	212.26	276°22'48"	-

CUL-DE-SAC FOR 50' R/W

Scale: 1"=30'



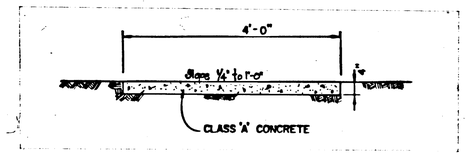
NOTE: USE THIS CUL-DE-SAC SECTION ON THE FOLLOWING ROADS.

SWEET HOURS WAY
GOLDEN FLEECE

CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
1	30.00'	39.12'	74°-43'-17"	22.90
2	44.00'	204.08'	265°-44'-32"	---
3	200.00'	38.47'	11°-01'-15"	19.29

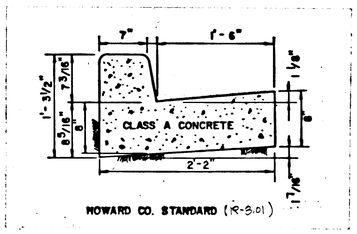
CUL-DE-SAC FOR 50' R/W

Scale: 1"=30'



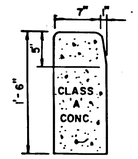
SIDEWALK DETAIL

No Scale



STD. 7" COMB. CURB & GUTTER

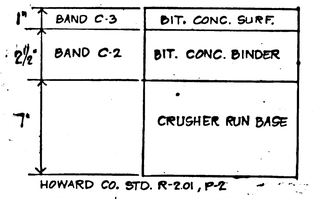
No Scale



STD. BARRIER CURB

No Scale

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

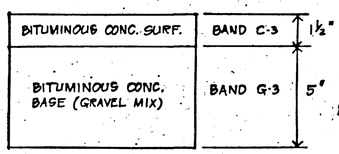


HOWARD CO. STD. R-2.01, P-2

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

10½" PAVEMENT

OR



HOWARD CO. STD. R-2.01, P-2.4

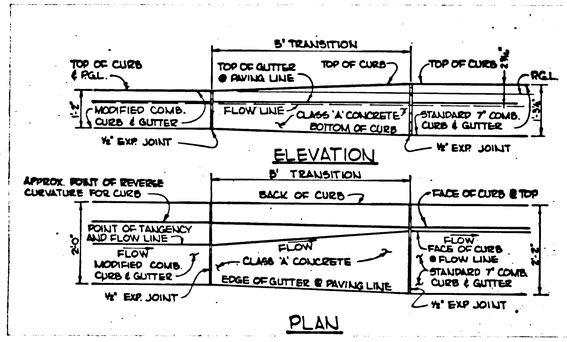
CLEARING & GRADING: ARTICLE C-1
SUBGRADE: ARTICLE C-2
BASE COURSE: ARTICLE C-33
SURFACE COURSE: ARTICLE C-31

6½" PAVEMENT

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

TYPICAL PAVING SECTION

No Scale



CURB TRANSITION DETAIL

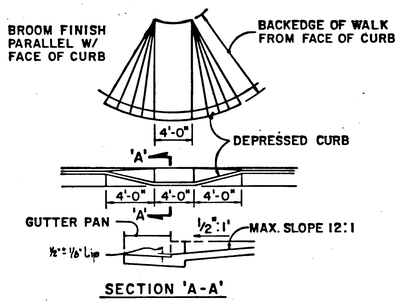
No Scale

*Gutter Pan at the Median Edge of Intermediate Arterials or the High Side of Superelevated Sections shall be sloped at the same rate and in the same direction as the Pavement. Match Pavement Cross Slope when Curb is Located on the Low Side of Superelevated Section and the rate of Superelevation is greater than 3% for Modified Curb and Gutter.

(HOWARD COUNTY STANDARD DRAWING R-3.01)

MODIFIED COMB. CURB AND GUTTER

No Scale



SIDEWALK RAMP DETAIL

No Scale

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

7/29/81
Chief, Bureau of Engineering — Date

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

6-30-81
Chief, Division of Land Development and Zoning Administration — Date

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

3-22-81
Date

STATE OF MARYLAND — JOHN E. RILEY — No. 10551 — REGISTERED PROFESSIONAL ENGINEER

Professional Engr. No. 10551

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

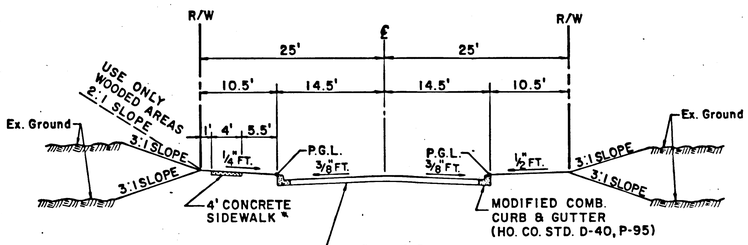
TITLE
DETAILS

Des By	T.D.	Scale	AS SHOWN	Proj No	0579
Drn By	J.C.	Date	3-7-80	Drawing No.	2 OF 27
Chk By	G.K.	Approved			

F-81-89

#445

BRUNING 44-132 28598



*Sidewalk to be placed on both sides of Sweet Hours Way from Sta 10+87.77 to Sta. 27+84± and on both sides of Summer Leave Lane from Weather Worn Way to New Grace Mews.

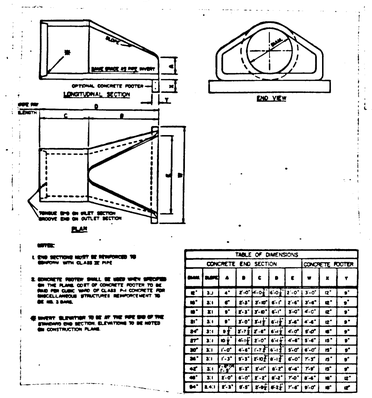
Design Speed = 25 M.P.H.
Type Traffic Way = NEW TOWN-RESIDENTIAL

50' R/W TYPICAL SECTION

No Scale

NOTE: USE THIS TYPICAL SECTION ON THE FOLLOWING ROADS.

SWEET HOURS WAY-FROM STA. 10+87.77 TO STA. 29+71.69
MOON PORTRAIT WAY
LILAC SEA
GOLDEN FLEECE
BROADCLOTH WAY
RED CRAVAT COURT
YELLOW BONNET PLACE
NEW GRACE MEWS
INDIAN PIPE COURT
MIDAS TOUCH
SUMMER LEAVE



NOTES:

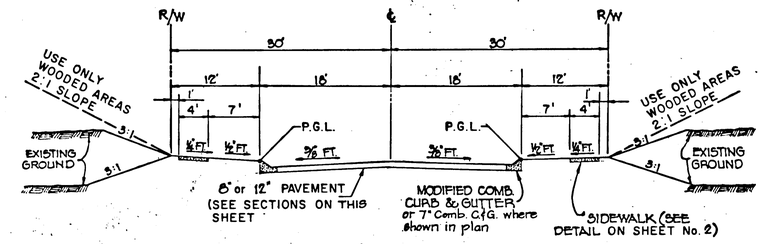
1. END SECTIONS MUST BE REINFORCED TO CONFORM WITH CLASS III PIPE.
2. CONCRETE PAVING SHALL BE MADE WITH APPROVED SILICA SAND, CEMENT AND WATER. CONCRETE TO BE MIXED IN THE RATIO OF ONE PART CEMENT TO SIX PARTS SILICA SAND. CONCRETE TO BE REINFORCED WITH MISCELLANEOUS STRUCTURES REINFORCEMENT TO BE NO. 3 BARS.
3. SKEWS: ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON CONSTRUCTION PLANS.

TABLE OF DIMENSIONS

		CONCRETE END SECTION						CONCRETE FOOTER	
DIAM.	SHAPE	A	B	C	D	E	W	X	Y
18"	3:1	4"	2'-0"	0'-0½	1'-0½	2'-0"	3'-0"	12"	9"
18"	2:1	8"	2'-0"	0'-10"	1'-0"	1'-0"	2'-0"	12"	9"
18"	1:1	9"	2'-3"	0'-10"	1'-1"	1'-0"	2'-0"	12"	9"
24"	3:1	8"	2'-6"	0'-9½	1'-1½	1'-4"	2'-4"	12"	9"
24"	2:1	1'-2"	2'-7½	0'-8"	1'-1½	1'-4"	2'-4"	12"	9"
24"	1:1	1'-2"	2'-10½	0'-10½	1'-1½	1'-4"	2'-4"	12"	9"
30"	3:1	1'-0"	3'-0"	0'-11½	1'-3"	1'-0"	2'-0"	12"	9"
30"	2:1	1'-3"	3'-0"	0'-10½	1'-3"	1'-0"	2'-0"	12"	9"
36"	3:1	1'-4"	3'-3"	1'-0"	1'-4"	1'-4"	2'-4"	12"	9"
36"	2:1	1'-6"	3'-3"	1'-0"	1'-4"	1'-4"	2'-4"	12"	9"
48"	3:1	1'-8"	4'-0"	1'-2"	1'-8"	1'-8"	2'-8"	18"	12"
48"	2:1	2'-0"	4'-0"	1'-2"	1'-8"	1'-8"	2'-8"	18"	12"

PRECAST END SECTION DETAIL

Not to Scale



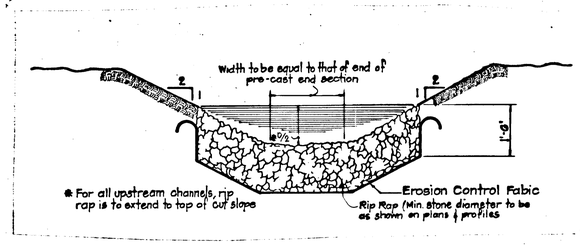
Design Speed = 35 M.P.H.
Traffic Way = COLLECTOR
Zoning = NEW TOWN

60' R/W TYPICAL SECTION

No Scale

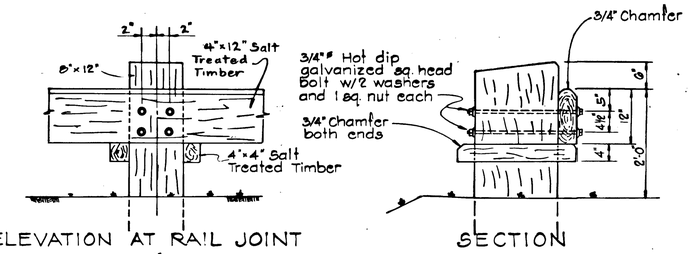
NOTE: USE THIS TYPICAL SECTION ON THE FOLLOWING ROADS.:

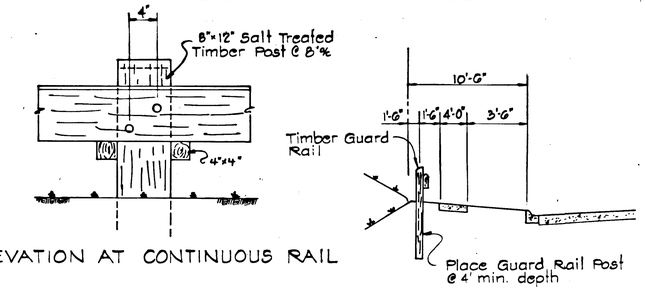
SWEET HOURS WAY - FROM STA. 0+62.74 TO STA. 10+87.77
WEATHER WORN WAY



RIP-RAP CHANNEL

No Scale





TYPICAL TIMBER GUARD RAIL DETAIL

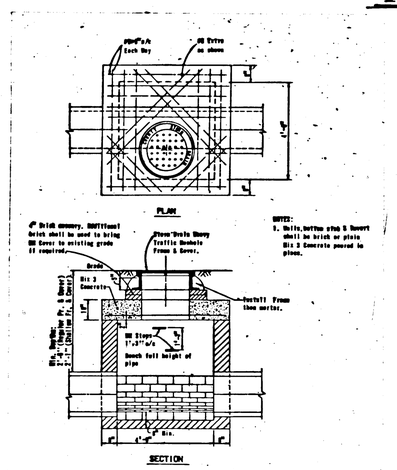
NO SCALE

8" Pavement			or	12" Pavement	
Bituminous Concrete Surface	1.5" Bond C-3	Final Phase		Bituminous Concrete Surface	1.5" Bond C-3
Bituminous Concrete Binder	1.5" Bond A-3			Bituminous Concrete Binder	1.5" Bond C-2
Bituminous Concrete Base	5" Bond C-2 or G-3	First Phase		Bituminous Concrete Base	3"
				Crusher Run Sub-Base	6"

Howard Co. Std. Dwg. № D-10, Pg. 05			Clearing & Grading	Article	C-1
Clearing & Grading	Article	C-1	Subgrade	"	C-2
Subgrade	"	C-2	Sub-Base Course	"	C-25
Base Course	"	C-31 or C-33	Base Course	"	C-31 or C-33
Binder Course	"	C-31	Binder Course	"	C-31 or C-33
Surface Course	"	C-31	Surface Course	"	C-31

To be constructed in accordance with the Howard County Road Construction Code and Specifications. See Paving Section on Sheet 2 for other notes.

TYPICAL PAVING SECTION FOR 30' Wide Paving



SHALLOW MANHOLE DETAIL

No Scale

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Admin. — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election Distric of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

5-22-81
Date

STATE OF MARYLAND — JOHN R. BALTUSKONIS — No. 10551 — REGISTERED PROFESSIONAL ENGINEER

Professional Engr. No. 10551

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

TITLE
DETAILS

Des By	T.D.	Scale	AS SHOWN	Proj No	0579
Drn By	J.C.	Date	3-7-80	Drawing No.	3 OF 27
Chk By	G.K.	Approved			

#445

BRUNING 44-132 28586

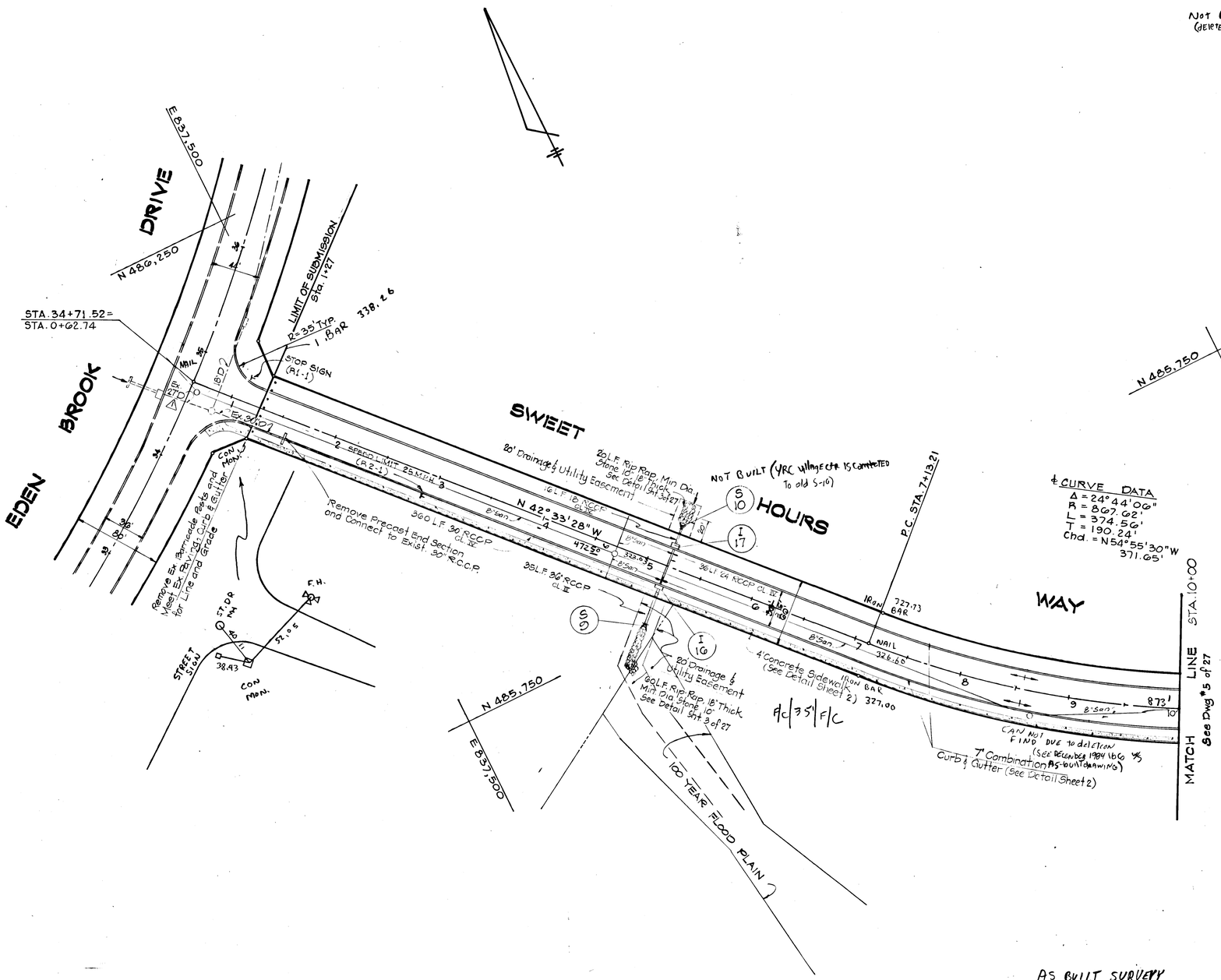
F-81-89

STRUCTURE SCHEDULE

Nº	Type	Location: Road	Sta.	Offset	Top*	Inv.	Remarks
S-10	PRECAST END SECTION	SWEET HRS.WAY	5+18.12	34.5 LT.	-	320.50	MD. STATE 368.02
S-9	PRECAST END SECTION	SWEET HRS.WAY	5+18.12	55' RT.	- 16	~~313.00~~ 314.00	MD. STATE 368.02
I-16	A-5 (2.5'W)	SWEET HRS.WAY	5+18.12	18.17 RT.	323.~~23~~	~~314.00~~ 316.41	HOWARD CO.STD. 64-A
I-17	A-5 (2.5'W)	SWEET HRS.WAY	5+18.12	~~18~~ 17.5 LT.	323.~~23~~ .19	319.00	HOWARD CO.STD. 64-A

NOT BUILT (DELETED)

* Elevations shown for inlets is P.G.L.



AS BUILT SURVEY CERTIFIED BY RICHARD FLAE REG. LS #301 11-6-86

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Administration — Date 6-30-81

Date	No	Revision Description
11/1/82	△	Exist. 15'D Changed to Ex 27'D

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

5-22-81
Date

Professional Engr. No. 10551

AREA
TAX MAP 41 AND 42
PARCELS 14, 54 PART OF 5, 358, 17

TITLE
ROAD PLAN
SWEET HOURS WAY

Des By T.D.	Scale 1" = 50'	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 4 OF 27
Chk By G.K.	Approved	

F-81-89

#445

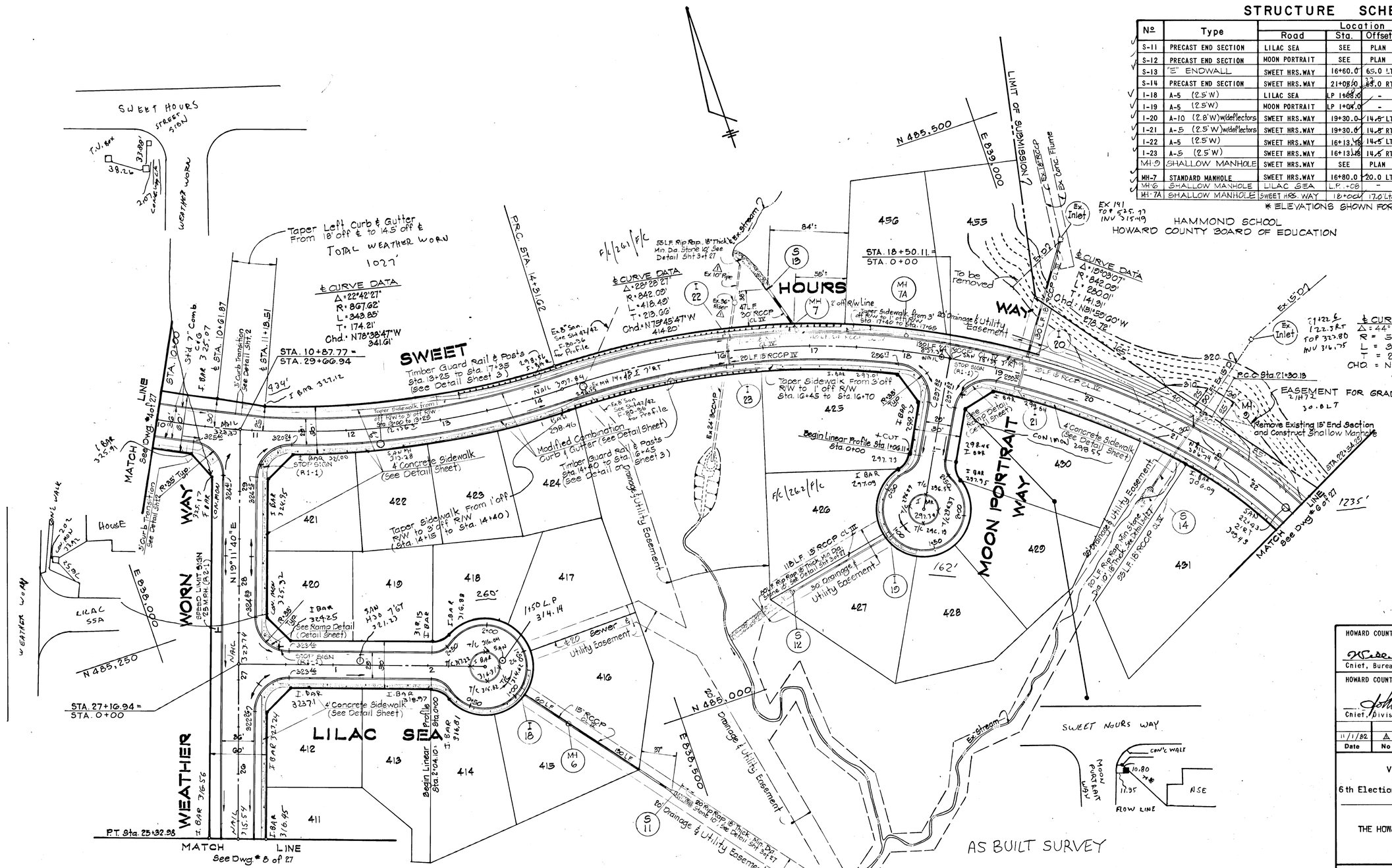
BRUNING 44-132 28586

STRUCTURE SCHEDULE

№	Type	Location: Road	Sta.	Offset	Top*	Inv.	Remarks
S-11	PRECAST END SECTION	LILAC SEA	SEE	PLAN		279.0	MD. STATE 368.02
S-12	PRECAST END SECTION	MOON PORTRAIT	SEE	PLAN		~~288.86~~ 289.06	MD. STATE 368.02
S-13	"E" ENDWALL	SWEET HRS.WAY	16+60.0	65.0 LT		278.0	HOWARD CO.STD D-54
S-14	PRECAST END SECTION	SWEET HRS. WAY	21+08.0	65.0 RT		290.0	MD. STATE 368.02
I-18	A-5 (2.5'W)	LILAC SEA	LP 1+08.0	-	~~313.7~~ 312.0	~~310.L~~ 311.0	HOWARD CO.STD. 64-A
I-19	A-5 (2.5'W)	MOON PORTRAIT	LP 1+04.0	-	295.85	291.08	HOWARD CO.STD. 64-A
I-20	A-10 (2.8'W)w/deflectors	SWEET HRS.WAY	19+30.0	14.5 LT	~~300.14~~ 299.14	294.75	HOWARD CO.STD. 64-A
I-21	A-5 (2.5'W)w/deflectors	SWEET HRS.WAY	19+30.0	14.5 RT	~~300.42~~ 299.42	296.0	HOWARD CO.STD. 64-A
I-22	A-5 (2.5'W)	SWEET HRS.WAY	16+13.18	14.5 LT	291.86	288.06	HOWARD CO.STD. 64-A
I-23	A-5 (2.5'W)	SWEET HRS.WAY	16+13.18	14.5 RT	291.86	288.59	HOWARD CO.STD. 64-A
MH-9	SHALLOW MANHOLE	SWEET HRS.WAY	SEE	PLAN	307.5	303.86	SEE DETAIL SHT. 3
MH-7	STANDARD MANHOLE	SWEET HRS.WAY	16+80.0	20.0 LT	~~293.0~~ 292.0	287.52	HOWARD CO.STD. D-103
MH-6	SHALLOW MANHOLE	LILAC SEA	L.P. +08	-	314.0	309.55	SEE DETAIL SHT. 3
MH-7A	SHALLOW MANHOLE	SWEET HRS. WAY	18+00.0	17.0 LT	~~296.25~~ 295.25	~~290.41~~ 291.41	SEE DETAIL SHT. 3

* ELEVATIONS SHOWN FOR INLETS IS P.G.L.
296.13 290.19

HAMMOND SCHOOL
HOWARD COUNTY BOARD OF EDUCATION



AS-BUILD SURVEY
CERTIFIED BY
RICHARD F LANE
REG LS
#301
11-6-86

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development & Zoning Admin. — Date 6-23-81

Date	No	Revision Description
11/1/82	1	Labelled Ex 30" Riser & Ex 10" Pipe

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

5-22-81
Date
Professional Engr. No. 10551

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

TITLE
ROAD PLANS
WEATHER WORN WAY, SWEET HOURS WAY,
LILAC SEA, MOON PORTRAIT WAY

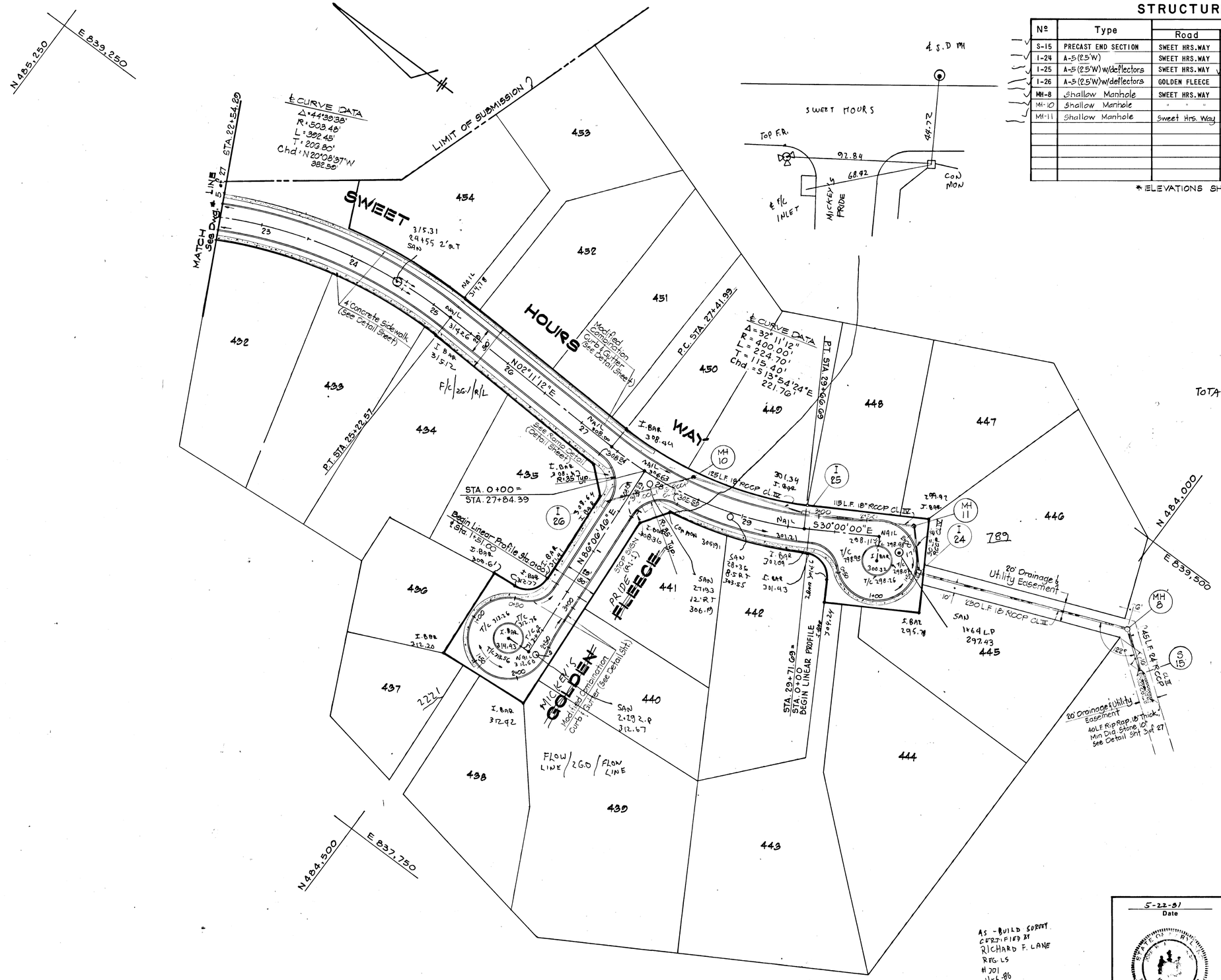
Des By T.D.	Scale 1" = 50'	Proj No 0579	
Drn By J.C.	Date 3-7-80	Drawing No. 5 OF 27	
Chk By G.K.	Approved		

5-5-82 AS-BUILT

F-81-89

#445

BRUNING 44-132 28586



TOTAL SWEET HOURS 2897'

STRUCTURE SCHEDULE

Nº	Type	Location: Road	Sta.	Offset	Top*	Inv.	Remarks
S-15	PRECAST END SECTION	SWEET HRS.WAY	SEE	PLAN	6.99	271.28	MD. STATE 368.02
I-24	A-5 (2.5'W)	SWEET HRS.WAY	LP 1+62.50	14 CM LP	297.26	292.80 (19)	HOWARD CO. STD. 64-A
I-25	A-5 (2.5'W) w/deflectors	SWEET HRS. WAY	29+07.70	14.5 LT	301.49	297.00	HOWARD CO. STD. 64-A
I-26	A-5 (2.5'W) w/deflectors	GOLDEN FLEECE	0+59.5	14.5 RT	308.43	304.50 (33)	HOWARD CO. STD. 64-A
MH-8	Shallow Manhole	SWEET HRS. WAY	SEE	PLAN	276.0±	271.50 (18)	See Detail Sht #3
MH-10	Shallow Manhole	" " "	28+35	18.5 LT	305.65	301.75 (16)	" " "
MH-11	Shallow Manhole	Sweet Hrs. Way	LP 2+05	11' RT.	298.84	294.00	See Detail Sheet 3
						293.80	

* ELEVATIONS SHOWN FOR INLETS IS P.G.L.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election Distric of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

5-22-81
Date

Professional Engr. No. 10551

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

TITLE: ROAD PLANS
SWEET HOURS WAY, GOLDEN FLEECE

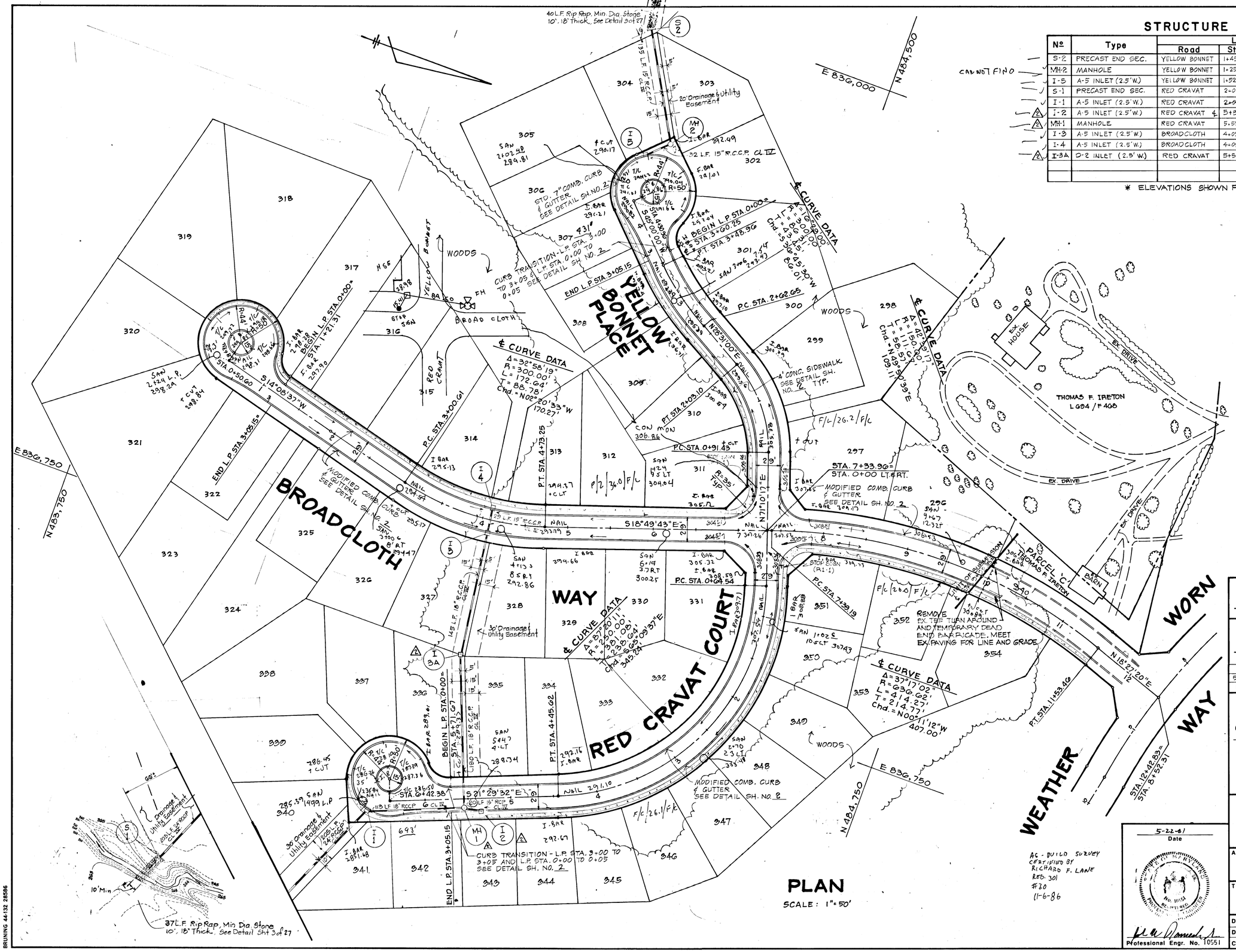
Des By T.D.	Scale 1" = 50'	Proj No 0579	
Drn By J.C.	Date 3-7-80	Drawing No. 6 OF 27	
Chk By G.K.	Approved		

#445

BRUNING 44-132 28586

5-6-88

T-87-89



STRUCTURE SCHEDULE

№	Type	Location					Remarks
		Road	Sta.	Offset	Top*	Inv.	
S-2	PRECAST END SEC.	YELLOW BONNET	1+45 L.P.	147'	-	284.70 / 7.8	MD. STD. # 368.02
MH-2	MANHOLE	YELLOW BONNET	1+25 L.P.	16'	290.40	285.11	HO. CO. STD. D-103
I-5	A-5 INLET (2.5' W.)	YELLOW BONNET	1+52 L.P.	18 / 1+58 L.P.	289.70 / 0.3	285.50 / 3.8	HO. CO. STD. G4A
S-1	PRECAST END SEC.	RED CRAVAT	2+05 L.P.	20.5'	-	285.00 / 7.5	MD. STD. # 368.02
I-1	A-5 INLET (2.5' W.)	RED CRAVAT	~~2+08 L.P.~~	2+08.5 L.P.	285.86	281.74	HO. CO. STD. G4A
I-2	A-5 INLET (2.5' W.)	RED CRAVAT ℄	5+35 L.P.	15' L.	~~287.00~~ 288.00	~~285.70~~ 286.50 / 3.8	HO. CO. STD. G4A
MH-1	MANHOLE	RED CRAVAT	5+55	14.5' L	~~287.50~~ 288.50	~~284.03~~ 285.00 / 3.8	HO. CO. STD. D-103
I-3	A-5 INLET (2.5' W.)	BROADCLOTH	4+03	14.5' R.	293.20	286.55 / 3.8	HO. CO. STD. G4A
I-4	A-5 INLET (2.5' W.)	BROADCLOTH	4+03	14.5' L.	293.20 / 1.6	~~287.03~~ 286.55 / 3.8	HO. CO. STD. G4A
I-3A	D-2 INLET (2.5' W.)	RED CRAVAT	5+55	17.0' R	~~293.01~~	~~287.00~~	HO. CO. STD. 4.11
					291.51	286.46	

* ELEVATIONS SHOWN FOR INLETS IS P.G.L.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 2/19/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description
5/23/84	4	Added MH 1, I-3A & Moved I-2

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
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
ROAD PLANS
YELLOW BONNET PLACE, RED CRAVAT COURT, BROADCLOTH WAY

Des By T.D.	Scale 1" = 50'	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 7 OF 27
Chk By G.K.	Approved	

5-22-81
Date

Professional Engr. No. 10551

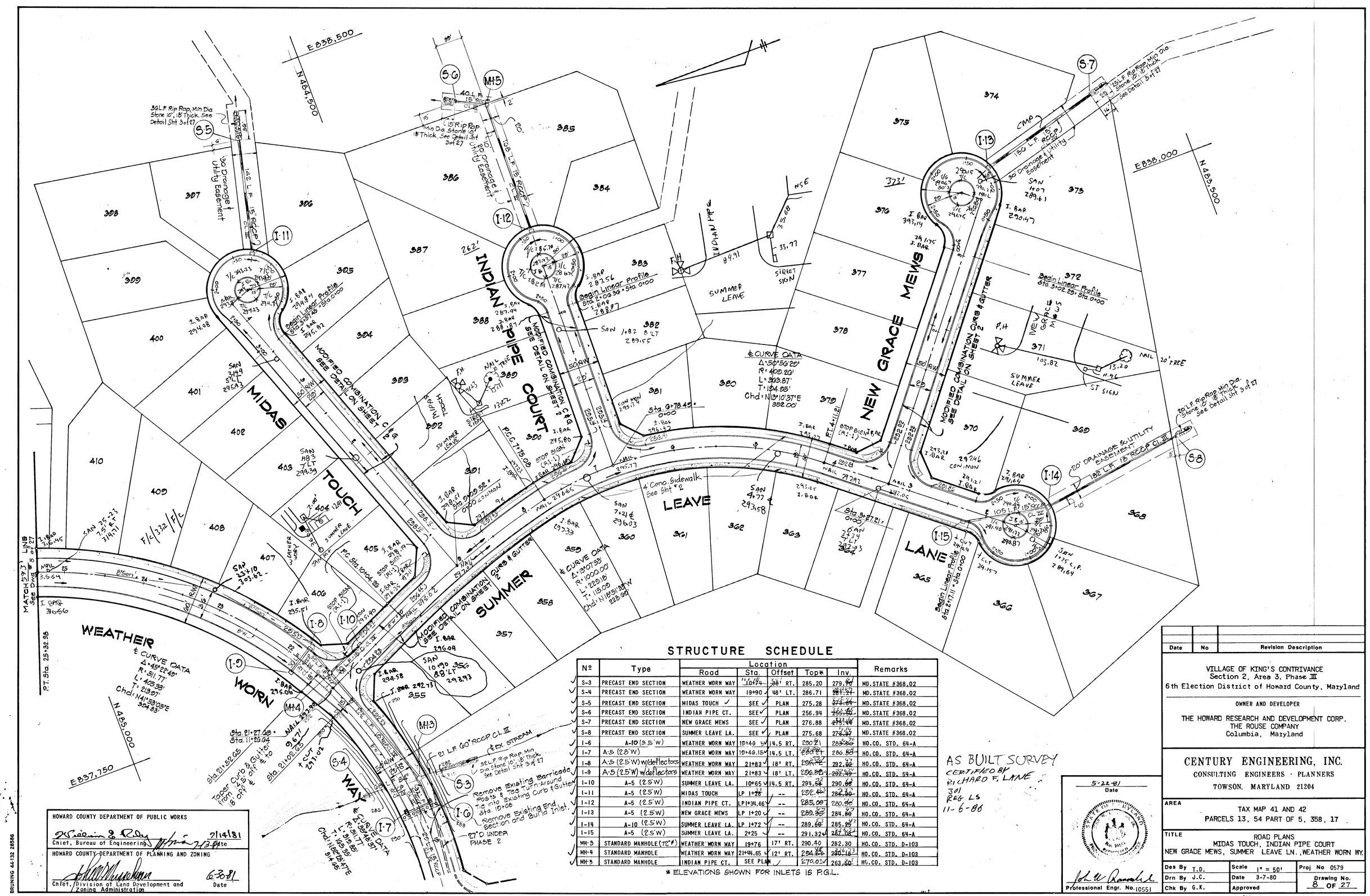
AS-BUILT SURVEY CERTIFIED BY RICHARD F. LANE REG. 301 #30 11-6-86

5-6-88 AS-BUILT

F-81-89

#445

BRUNING 44-132 28586



STRUCTURE SCHEDULE

	Nº	Type	Location: Road	Sta.	Offset	Top*	Inv.	Remarks
✓	S-3	PRECAST END SECTION	WEATHER WORN WAY	11+74	48' RT.	285.20	279.80	MD. STATE #368.02
✓	S-4	PRECAST END SECTION	WEATHER WORN WAY	19+90 ✓	48' LT.	286.71	281.21	MD. STATE #368.02
✓	S-5	PRECAST END SECTION	MIDAS TOUCH ✓	SEE ✓	PLAN	275.28	273.84	MD. STATE #368.02
✓	S-6	PRECAST END SECTION	INDIAN PIPE CT.	SEE ✓	PLAN	256.94	255.46	MD. STATE #368.02
✓	S-7	PRECAST END SECTION	NEW GRACE MEWS	SEE ✓	PLAN	276.88	275.44	MD. STATE #368.02
✓	S-8	PRECAST END SECTION	SUMMER LEAVE LA.	SEE ✓	PLAN	275.68	274.24	MD. STATE #368.02
✓	I-6	A-10 (3.5'W)	WEATHER WORN WAY	10+46 ✓	14.5 RT.	290.71	285.56	HO. CO. STD. 64-A
✓	I-7	A-5 (2.8'W)	WEATHER WORN WAY	10+46.15 ✓	14.5 LT.	290.71	286.85	HO. CO. STD. 64-A
✓	I-8	A-5 (2.5'W) w/deflectors	WEATHER WORN WAY	21+83 ✓	18' RT.	294.76	292.92	HO. CO. STD. 64-A
✓	I-9	A-5 (2.5'W) w/deflectors	WEATHER WORN WAY	21+83 ✓	18' LT.	296.50	293.49	HO. CO. STD. 64-A
✓	I-10	A-5 (2.5'W)	SUMMER LEAVE LA.	10+65 ✓	14.5 RT.	294.58	290.68	HO. CO. STD. 64-A
✓	I-11	A-5 (2.5'W)	MIDAS TOUCH	LP 1+28	--	292.40	288.90	HO. CO. STD. 64-A
✓	I-12	A-5 (2.5'W)	INDIAN PIPE CT.	LP 1+34.66 ✓	--	285.00	280.80	HO. CO. STD. 64-A
✓	I-13	A-5 (2.5'W)	NEW GRACE MEWS	LP 1+20 ✓	--	290.35	284.80	HO. CO. STD. 64-A
✓	I-14	A-10 (2.5'W)	SUMMER LEAVE LA.	LP 1+72 ✓	--	289.60	285.95	HO. CO. STD. 64-A
✓	I-15	A-5 (2.5'W)	SUMMER LEAVE LA.	2+25 ✓	--	291.32	287.02	HO. CO. STD. 64-A
✓	MH-3	STANDARD MANHOLE (72" ø)	WEATHER WORN WAY	19+76	17' RT.	290.40	282.30	HO. CO. STD. D-103
✓	MH-4	STANDARD MANHOLE	WEATHER WORN WAY	21+44.65 ✓	12' RT.	294.50	290.13	HO. CO. STD. D-103
✓	MH-5	STANDARD MANHOLE	INDIAN PIPE CT.	SEE PLAN ✓		270.00 ✓	263.50	HO. CO. STD. D-103

* ELEVATIONS SHOWN FOR INLETS IS P.G.L.

AS BUILT SURVEY
CERTIFIED BY
RICHARD F. LANE
301
REG LS
11-6-86

5-22-81
Date

Professional Engr. No. 10551

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chief, Bureau of Engineering — 7/14/81 Date

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development and Zoning Administration — 6-30-81 Date

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
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
ROAD PLANS
MIDAS TOUCH, INDIAN PIPE COURT
NEW GRADE MEWS, SUMMER LEAVE LN., WEATHER WORN WY.

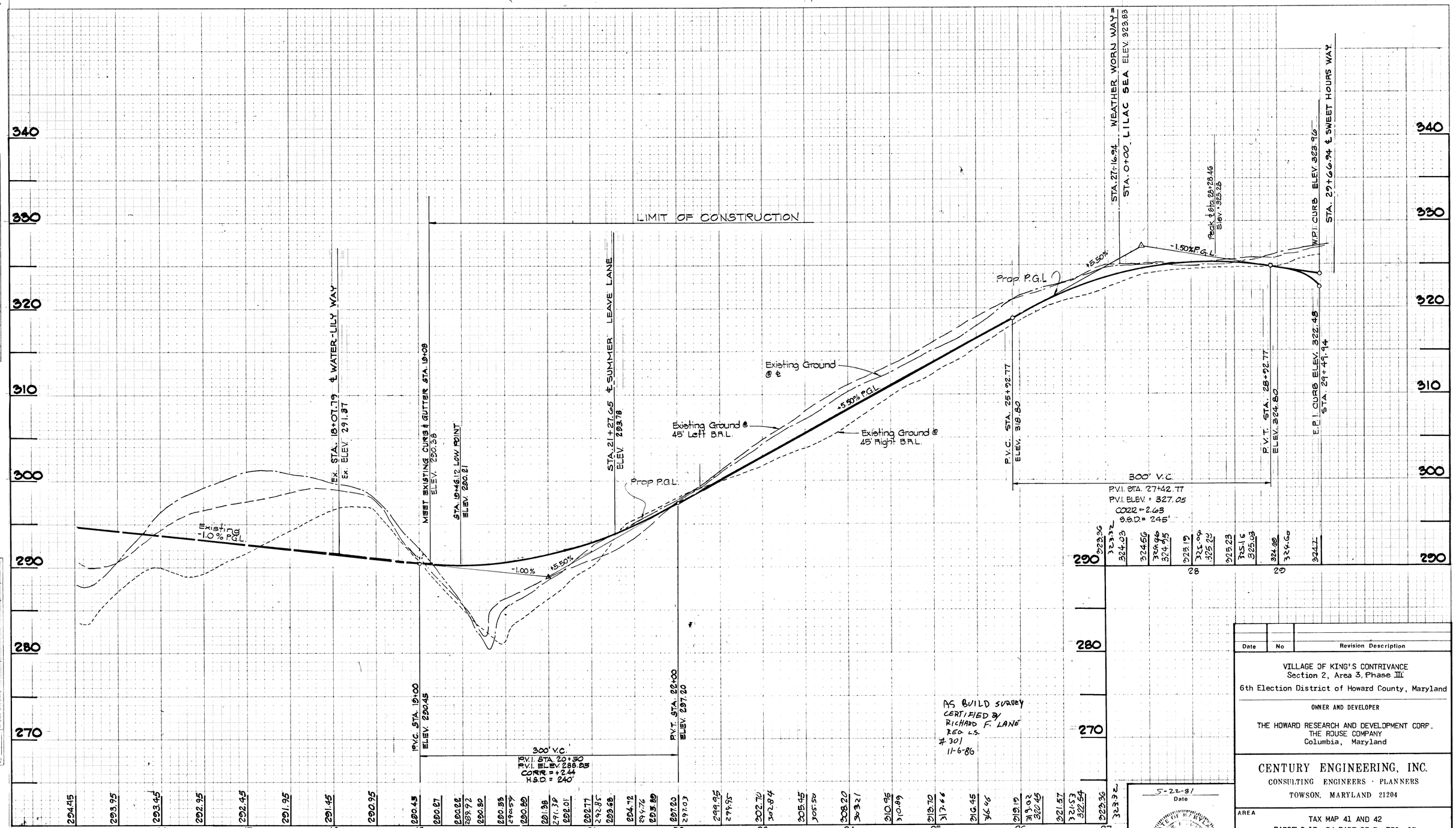
Des By T.D.	Scale 1" = 50'	Proj No 0579	
Drn By J.C.	Date 3-7-80	Drawing No. 8 OF 27	
Chk By G.K.	Approved		

#445

11-81-89

5-11-88 AS BUILT

BRUNING 44-132 28566



WEATHER WORN WAY

PROFILE

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

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
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
ROAD PROFILE
WEATHER WORN WAY
STA. 19+08 to SWEET HOURS WAY

Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By T.D.	Date	Drawing No. 9 OF 27
Chk By G.R.K.	Approved	

5-22-81
Date

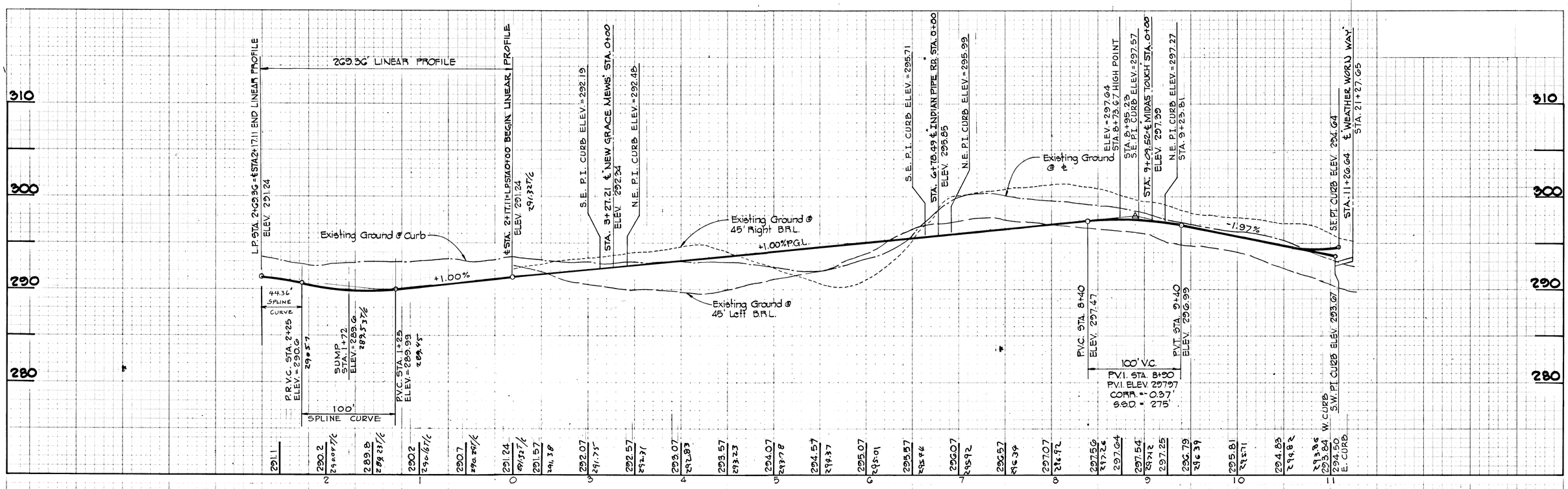
STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
No. 10551

Professional Engr. No. 10551

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 7/14/81
DEPARTMENT OF PLANNING AND ZONING
CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMIN. — DATE: 6-30-81

5-11-88 AS-BUILT

PLATE 3. CROSS SECTION
KEUFFEL & ESSER CO.
48 7052 MADE IN U.S.A.



AS-BUILD SURVEY
CERTIFIED BY
RICHARD F. LANE.
REG. LS
301
11-6-86

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
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
ROAD PROFILES
SUMMER LEAVE LANE, MIDAS TOUCH

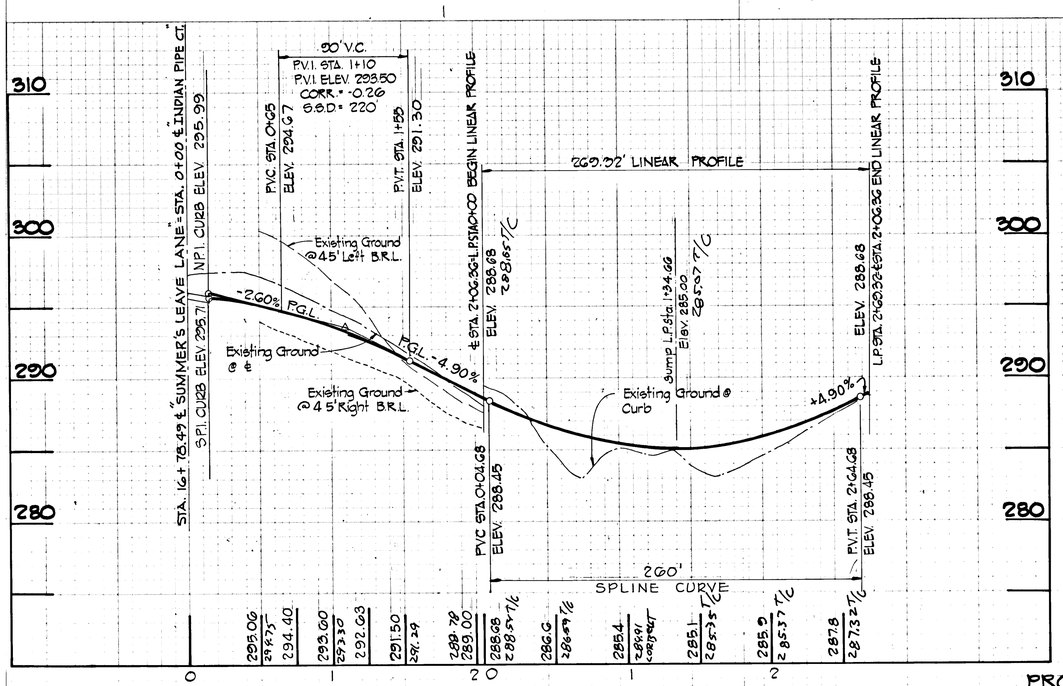
Date

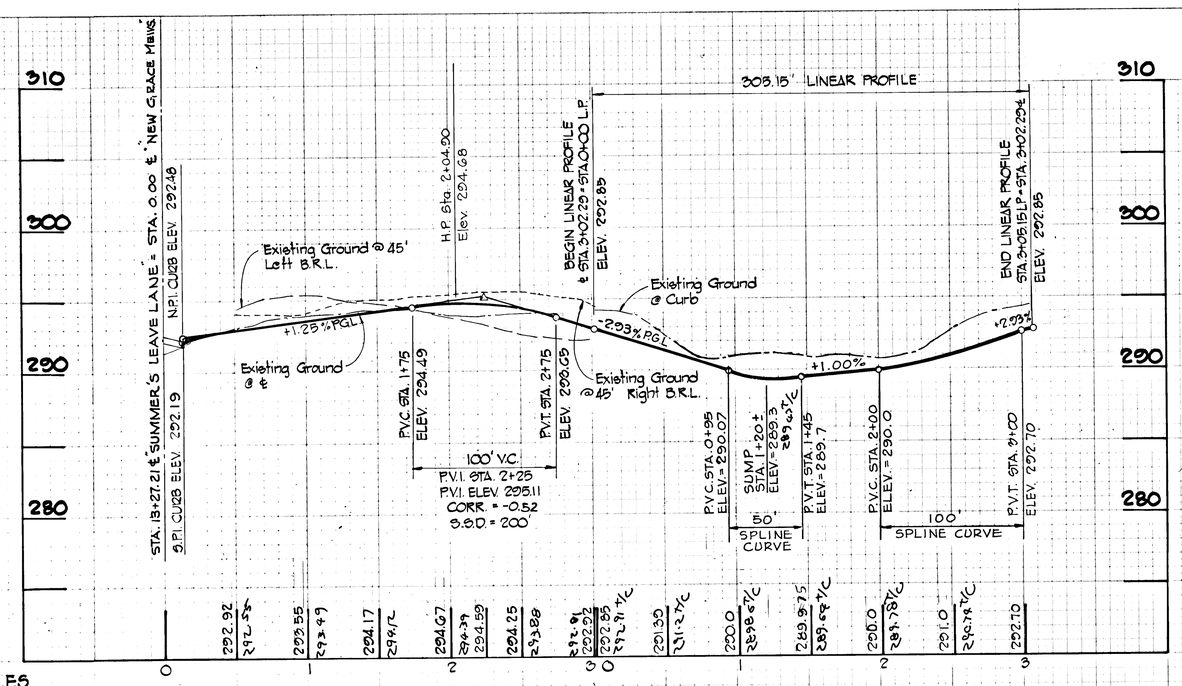
Professional Engr. No. 3511

Des By T.D.	Scale AS SHOWN	Proj No 0579	
Drn By J.C.	Date 3-7-80	Drawing No. 10 OF 27	
Chk By G.K.	Approved		

5-11-88 AS-BUILT

K+E PLATE 3, CROSS SECTION KEUFFEL & ESSER CO.
48 7052 MADE IN U.S.A.



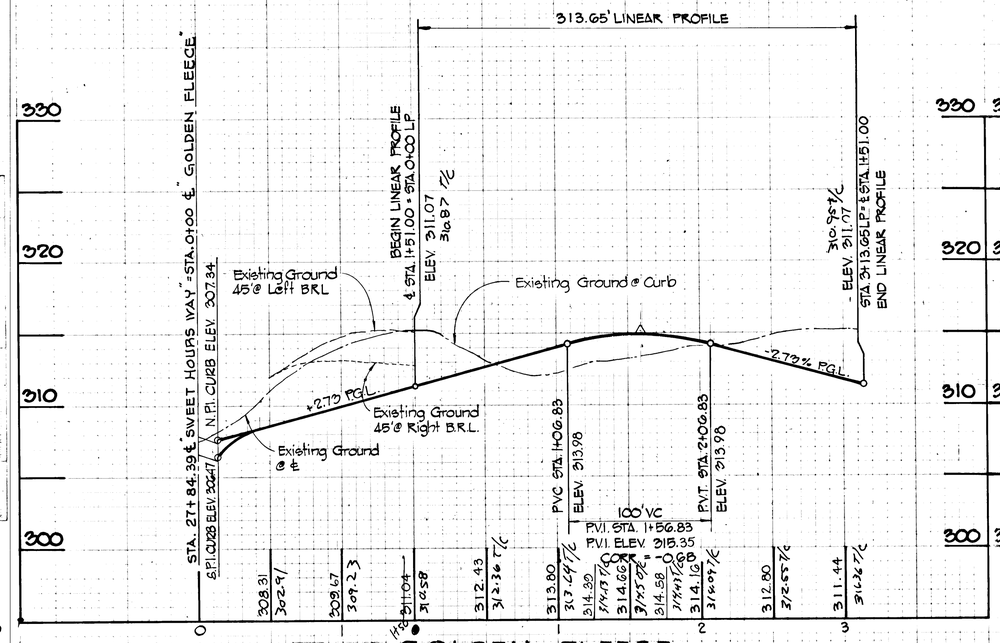


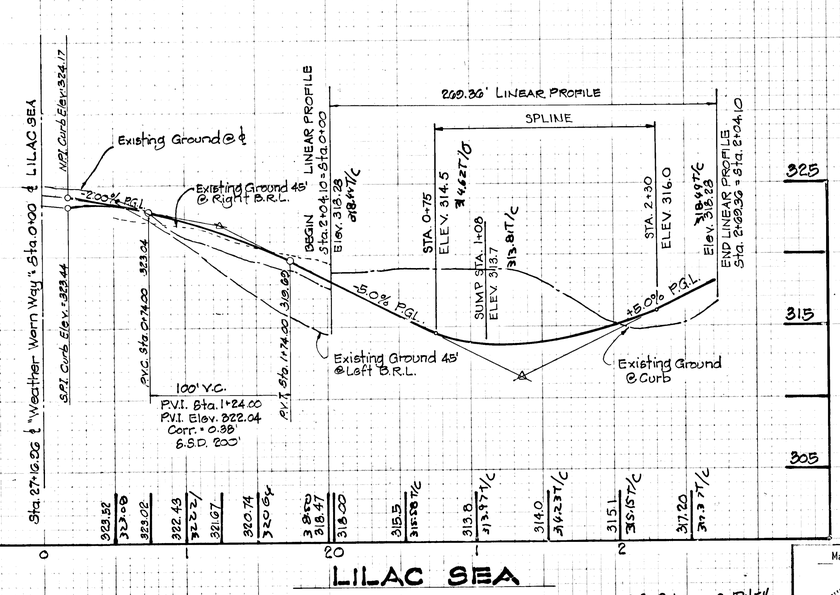
PROFILES

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

INDIAN PIPE COURT

NEW GRACE MEWS





GOLDEN FLEECE

LILAC SEA

PROFILE

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

MICKEY'S PRIDE

AS BUILD SURVEY
CERTIFIED BY
RICHARD F. LANE
REG. LS.
#301
11-6-86

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief Bureau of Engineering — Date 7/21/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase IV
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

March 7, 1980
Date

Professional Engr. No. 3511

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

TITLE
ROAD PROFILES
INDIAN PIPE COURT, NEW GRACE MEWS,
GOLDEN FLEECE, LILAC SEA

Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By T.D.	Date 3-7-80	Drawing No. 11 OF 27
Chk By G.R.K.	Approved	

5-11-88 AS-BUILT

#445

PLATE 3 CROSS-SECTION KEUFFEL & ESSER CO.

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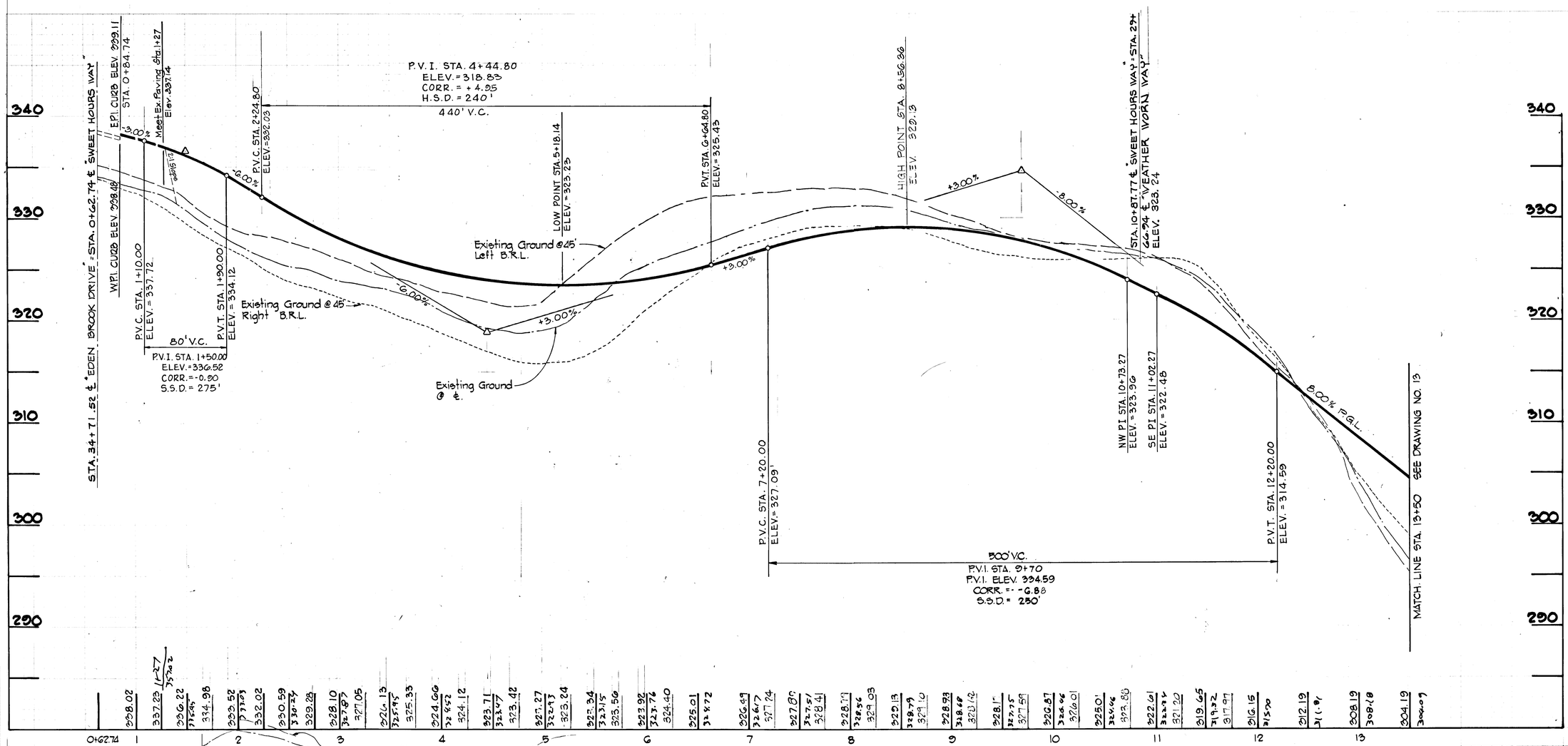
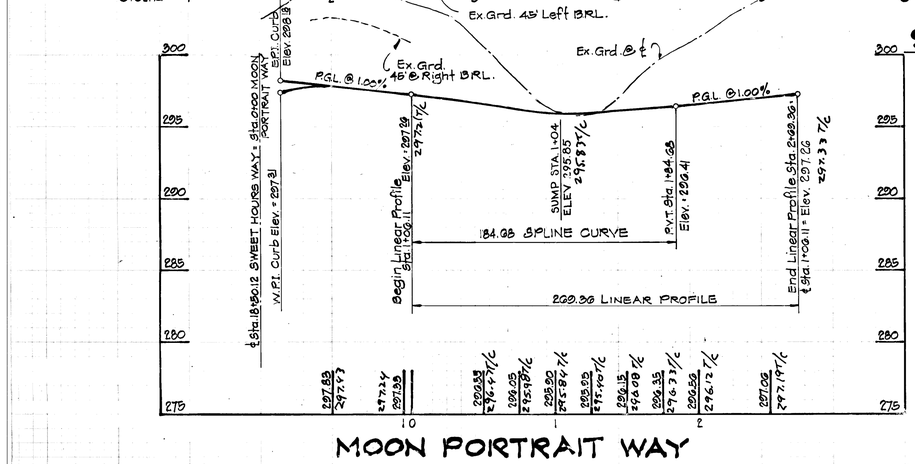




AS BUILD SURVEY CERTIFIED BY RICHARD F. LANE REG. L.S. #301 11-5-86

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
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
ROAD PROFILES
SWEET HOURS WAY, MOON PORTRAIT WAY

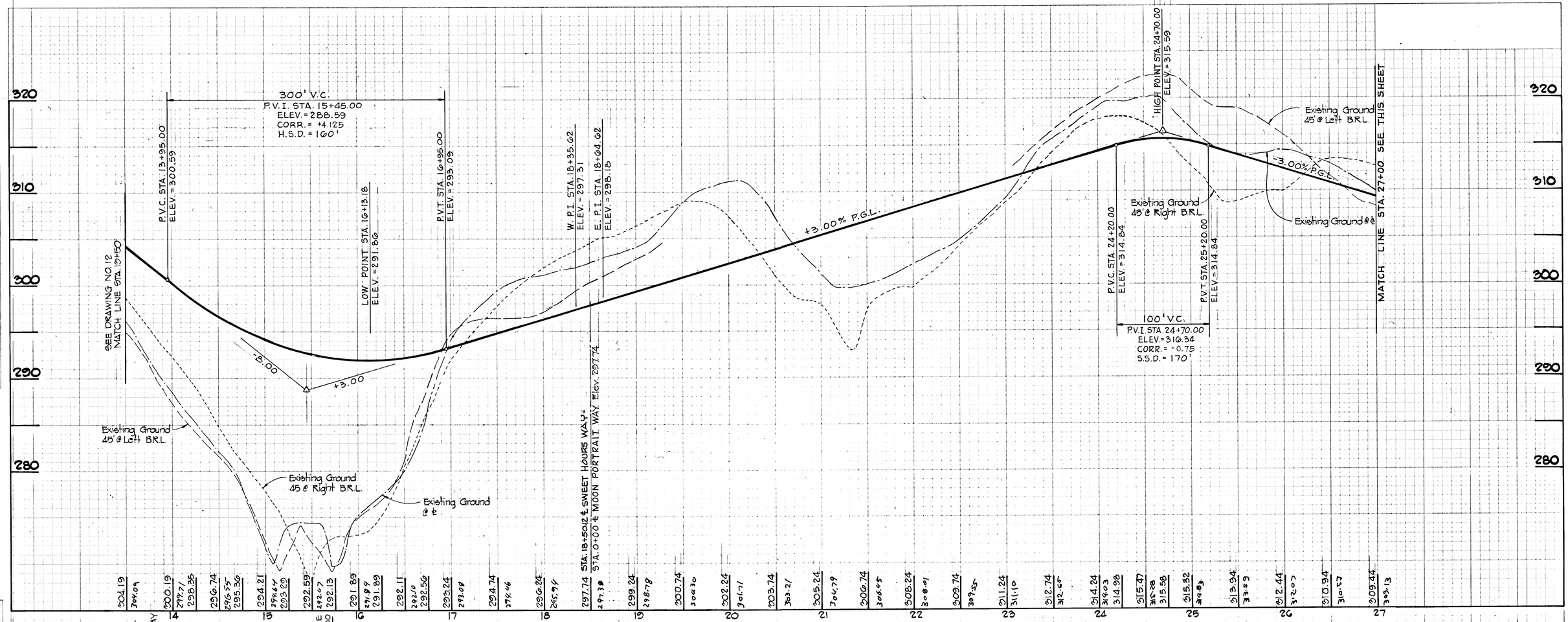
Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By T.D.	Date	Drawing No. 12 OF 27
Chk By G.R.K.	Approved	

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development & Zoning Admin — Date 6-30-81

5-15-79
Date
Professional Engr. No. 3511

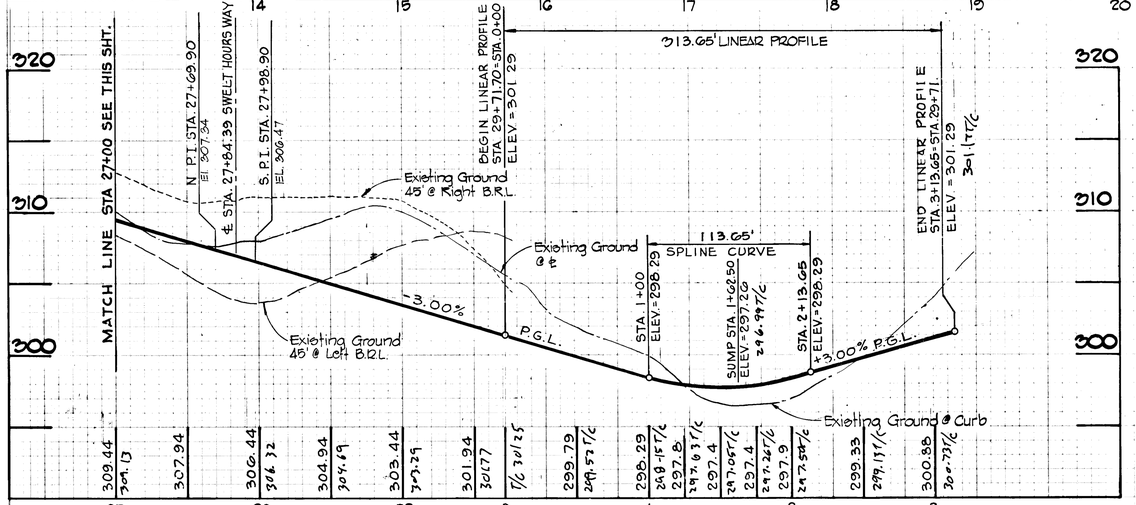
5-11-88 AS-BUILT



SWEET HOURS WAY (CONT'D)

PROFILES

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



SWEET HOURS WAY (CONT'D)

AS BUILD SURVEY
CERTIFIED BY
RICHARD F. LANE
REG. LS.
#301
11-6-86

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
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
ROAD PROFILE
SWEET HOURS WAY

Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 13 OF 27
Chk By G.K.	Approved	

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chief, Bureau of Engineering — Date 7/10/81

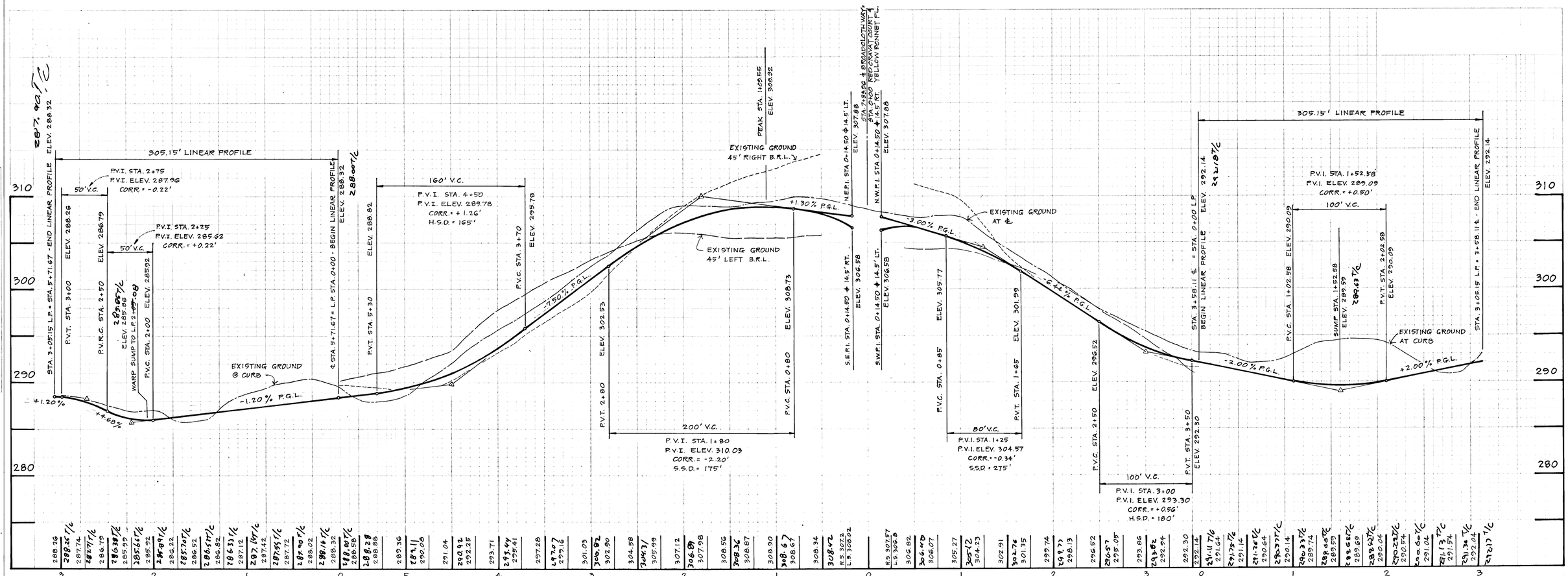
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development & Zoning Admin — Date 6-30-81

Date
STATE OF MARYLAND — PROFESSIONAL ENGINEER
Professional Engr. No. 3511

5-11-88 AS-BUILT

#445

K+E PLATE 3 CROSS SECTION KEUFFEL & ESSER CO.
48 7052 MADE IN U.S.A.



RED CRAVAT COURT

PROFILE

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

YELLOW BONNET PLACE

PROFILE

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

AS BUILD SURVEY
CERTIFIED BY
RICHARD F. LANE
REG. LS
#301
11-6-86

March 7, 1980
Date

Professional Engr. No. 10551

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Admin. — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DECEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

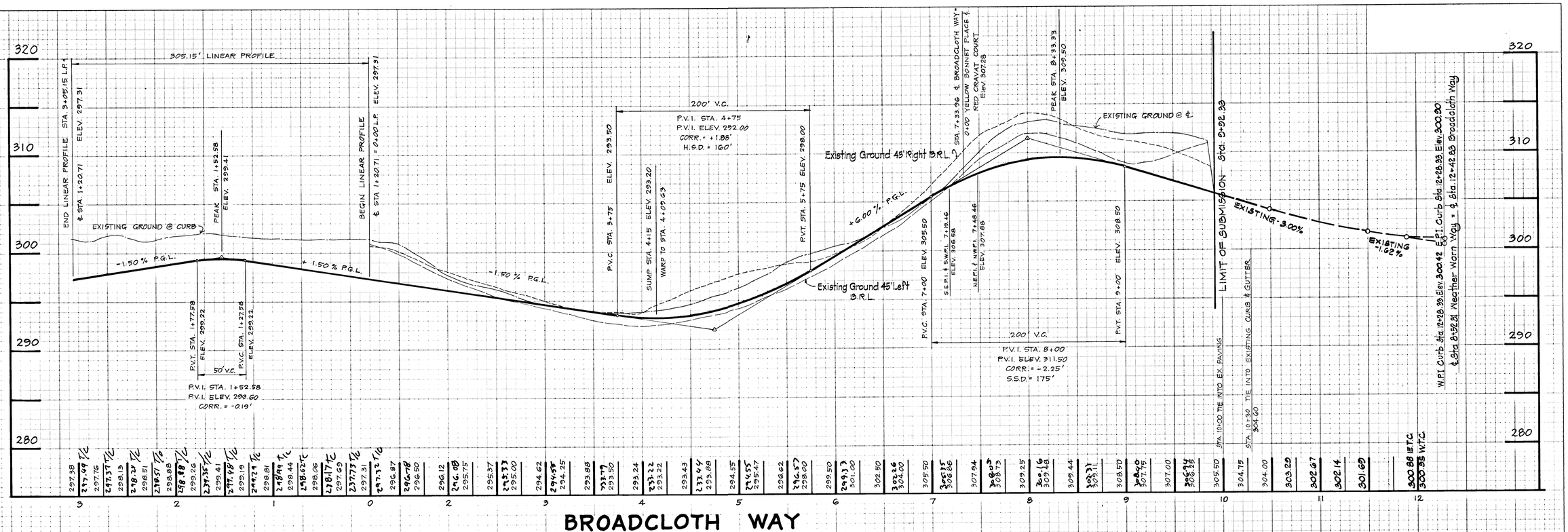
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS · PLANNERS
TOWSON, MARYLAND 21204

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

TITLE
ROAD PROFILES
RED CRAVAT COURT, YELLOW BONNET PLACE

Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 14 Of 27
Chk By G.K.	Approved	

5-11-88



BROADCLOTH WAY

PROFILE

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

AS BUILD SURVEY
CERTIFIED BY
RICHARD A. LANE
REG. LS.
#301
11-6-88

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
NOTE BOOK		
AREAS CHECKED		
NO.		

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Admin. — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

March 7, 1980
Date

Professional Engr. No. 10551

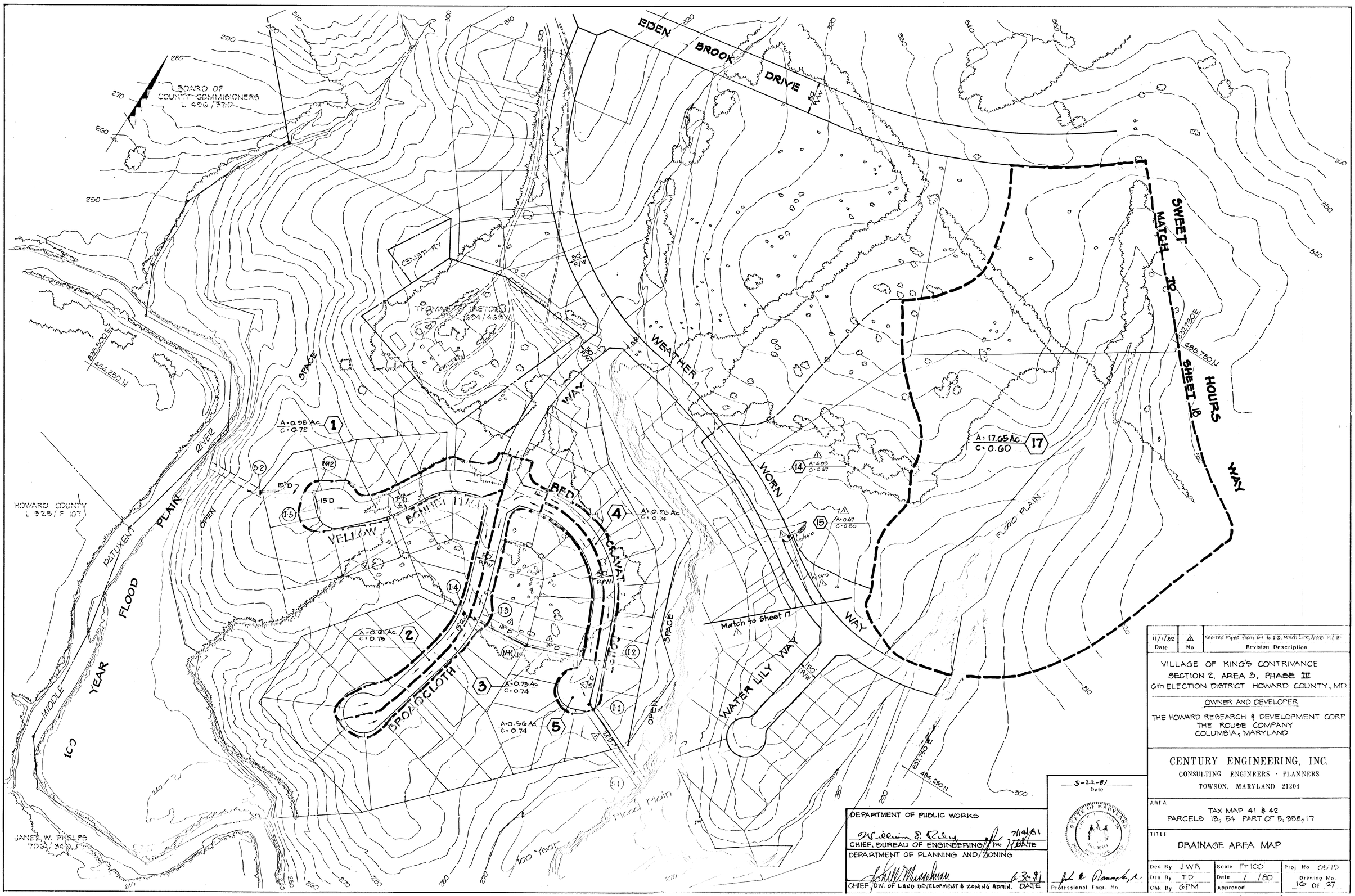
AREA
TAX MAP 41 AND 42
PARCELS 13, 54 PART OF 5, 358, 17

TITLE
ROAD PROFILES
BROADCLOTH WAY
To Sta. 10+00

Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 15 OF 27
Chk By G.K.	Approved	

#45

5-11-88



Date	No	Revision Description
11/1/82	△	Revised Pipes from S-1 to I-3, Match Line, Areas 14 & 15

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD

OWNER AND DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

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

TITLE
DRAINAGE AREA MAP

Des By JWR	Scale 1"=100'	Proj No 0579
Drn By TD	Date 1/80	Drawing No. 16 of 27
Chk By GPM	Approved	

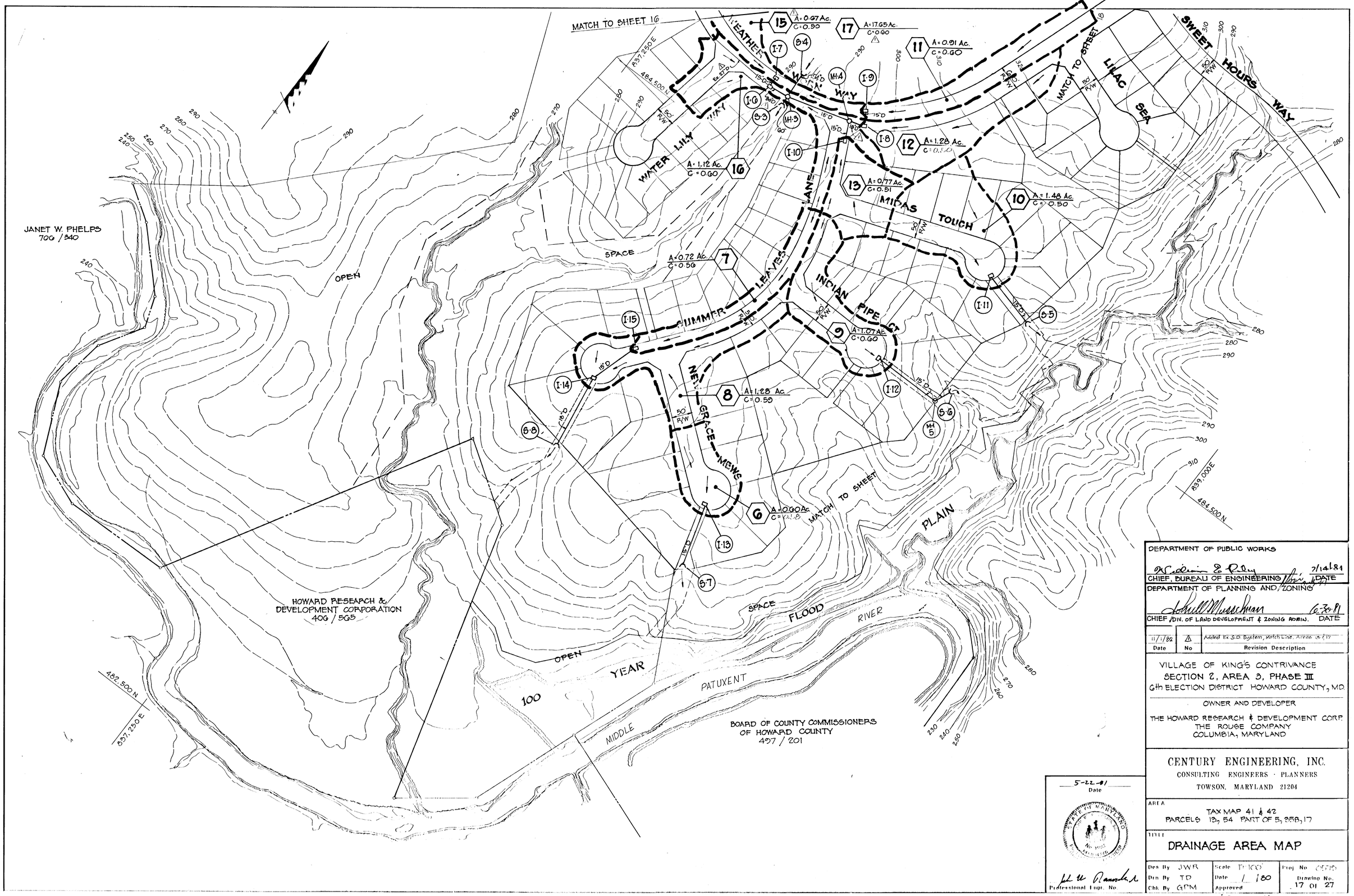
DEPARTMENT OF PUBLIC WORKS
William E. Riley 7/14/81
CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING
Shelly Musselman 6-30-81
CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMIN. DATE

5-22-81
Date

STATE OF MARYLAND

Professional Engr. No.



DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 7/14/81

DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 6-30-81

Date	No	Revision Description
11/1/82	1	Added Ex S.D. System, Match Line, Areas 16 & 17

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

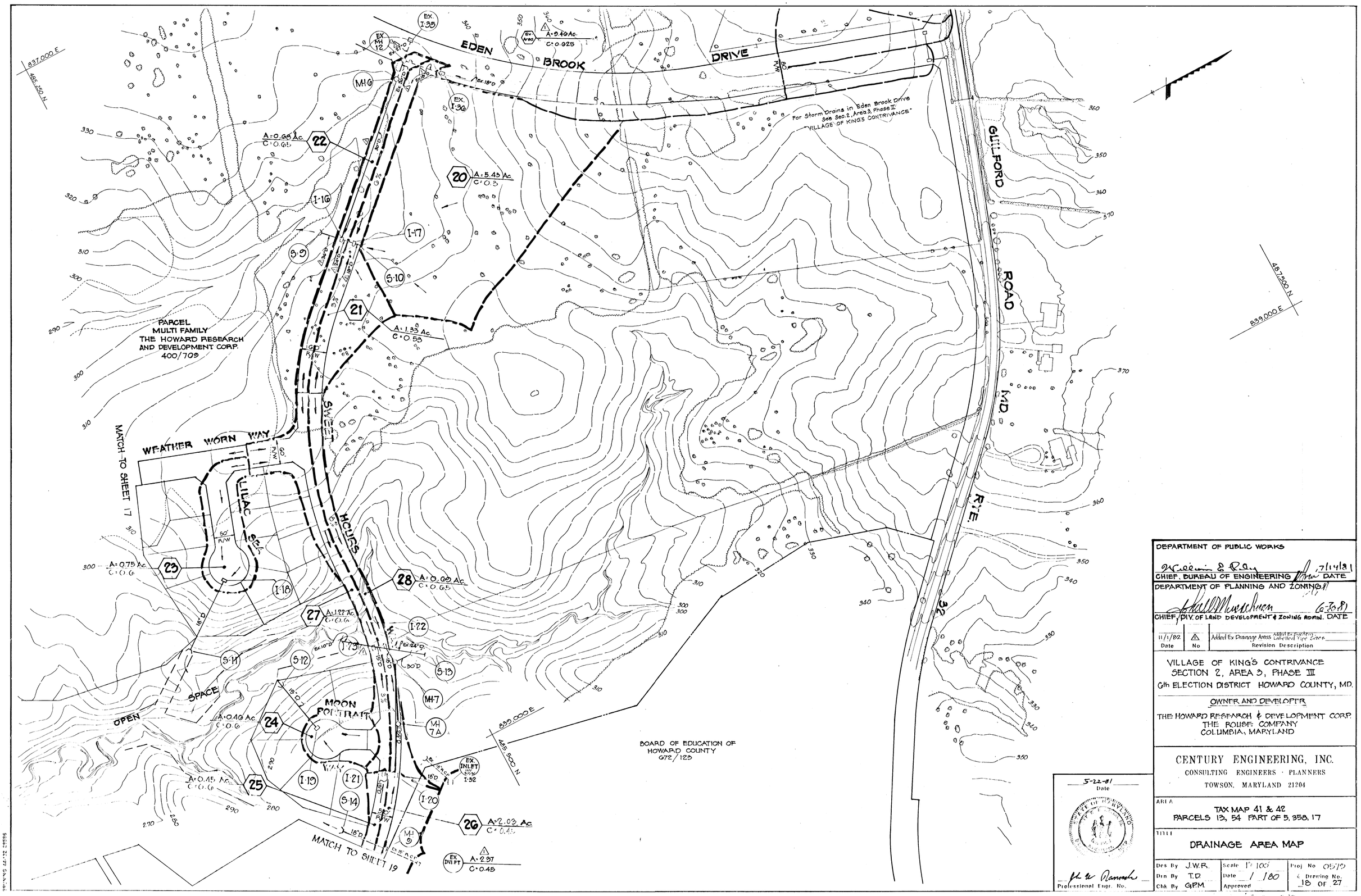
5-22-81
Date

Professional Engr. No.

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

TITLE
DRAINAGE AREA MAP

Des By JWR	Scale 1" = 100'	Proj No 05719
Drn By TD	Date 1/80	Drawing No. 17 of 27
Chk By GPM	Approved	



DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 7/14/81

DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMIN. — DATE (6-30-81)

Date	No	Revision Description
11/1/82	1	Added Ex Drainage Areas Added Ex Inlet Labelled Pipe Sizes

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

5-22-81
Date

Professional Engr. No.

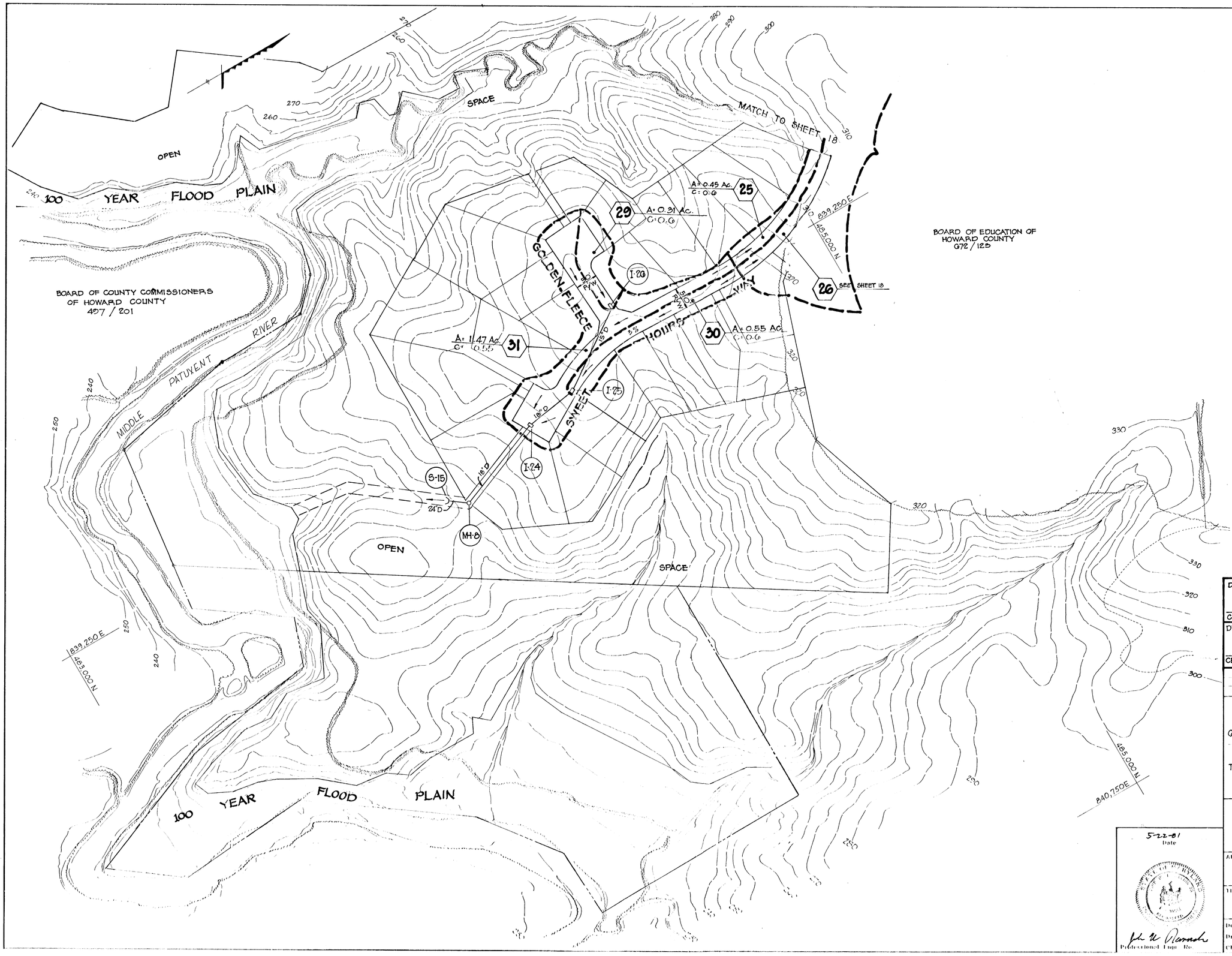
AREA

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

TITLE

DRAINAGE AREA MAP

Des By J.W.R.	Scale 1" = 100'	Proj No 05779
Drn By T.D.	Date 1/80	Drawing No. 18 OF 27
Chk By G.P.M.	Approved	



DEPARTMENT OF PUBLIC WORKS

William E. Riley 7/19/81

CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING

6-30-81

CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMIN. DATE

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

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

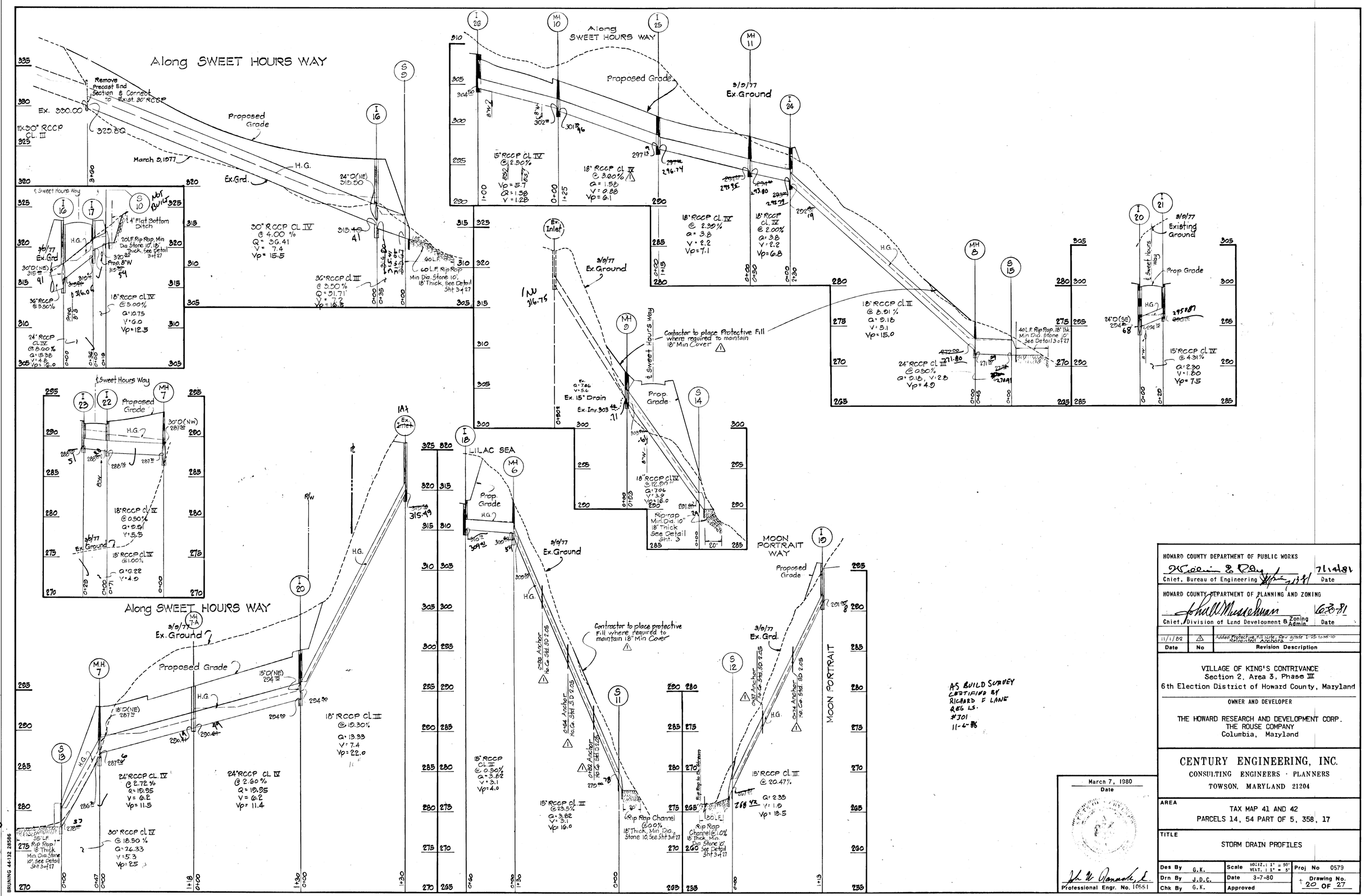
TITLE
DRAINAGE AREA MAP

Det By J.W.R.	Scale 1"=100'	Proj No. [illegible]
Drn By T.D.	Date / /80	Drawing No. 19 of 27
Chk By G.P.M.	Approved	

5-22-81
Date

Professional Engr. No.

#445



HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Admin. — Date 6-30-81

Date	No	Revision Description
11/1/82	1	Added Protective Fill Note, Rev grade 1-25 to MH-10 Relocated Anchors

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

March 7, 1980
Date

Professional Engr. No. 10551

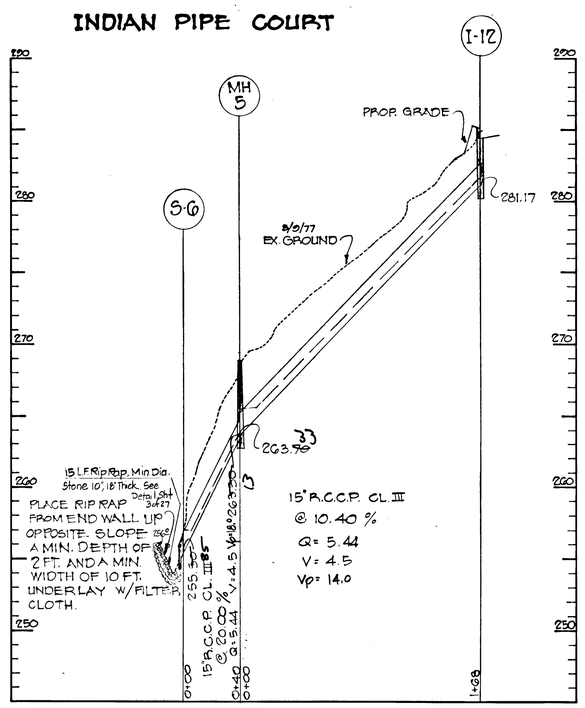
AREA
TAX MAP 41 AND 42
PARCELS 14, 54 PART OF 5, 358, 17

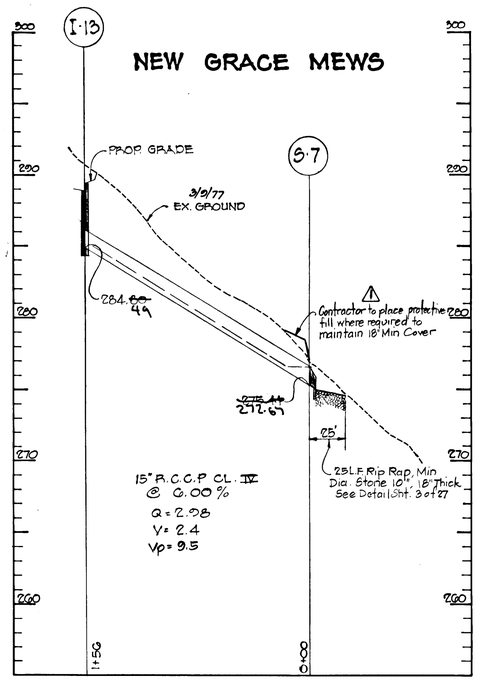
TITLE
STORM DRAIN PROFILES

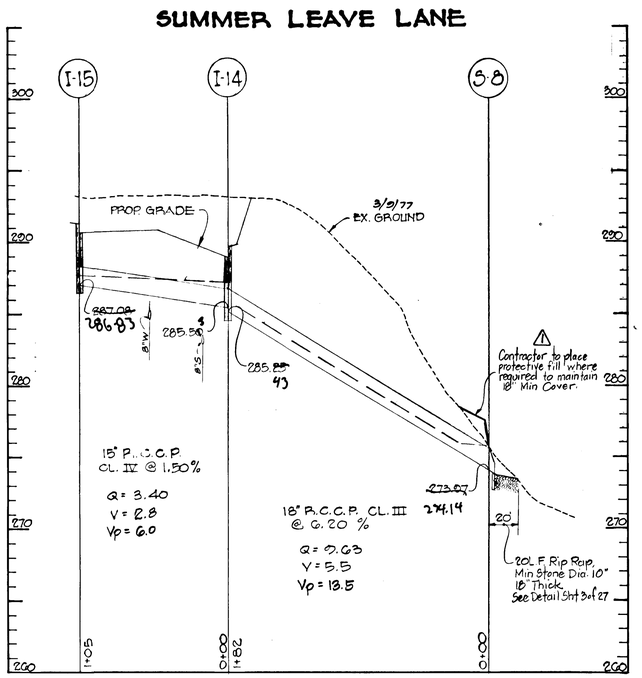
Des By	G.K.	Scale	HORIZ.: 1" = 50' VERT.: 1" = 5'	Proj No 0579
Drn By	J.D.C.	Date	3-7-80	Drawing No. 20 OF 27
Chk By	G.K.	Approved		

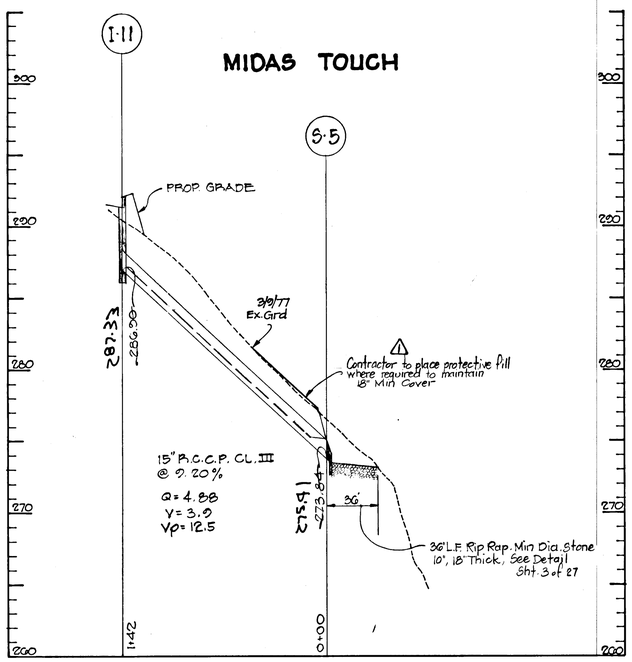
5-11-88 AS BUILT

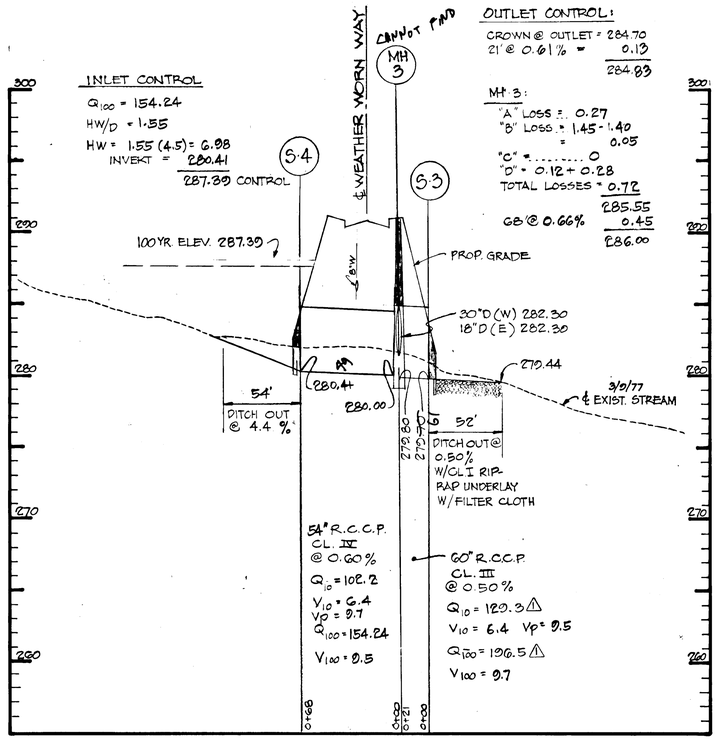
BRUNING 44-132 28586

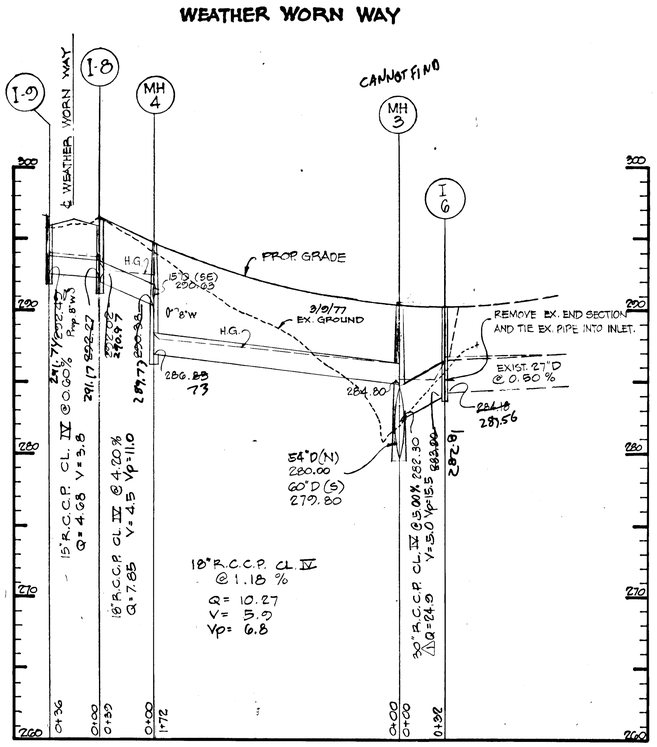


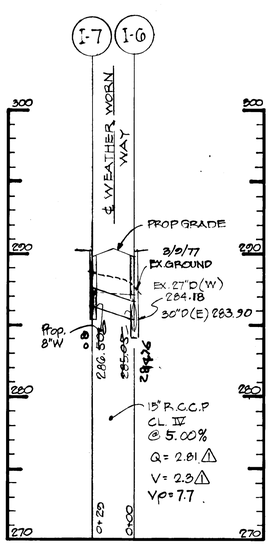


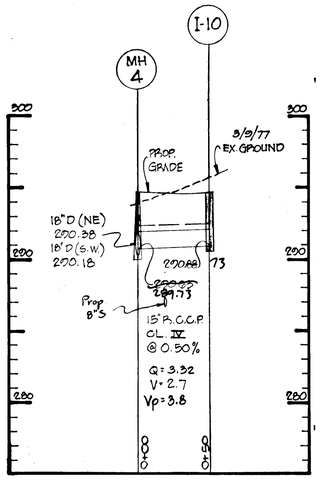












PROFILE: SCALE: HORIZ. = 1" = 50'
VERT. = 1" = 5'

AS BUILT SURVEY CERTIFIED BY RICHARD A. LANE REG. LS #301 11-6-86

MARCH 7, 1980
Date

Professional Engr. No. 10551

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Admin. — Date 6-20-81

Date	No	Revision Description
11/1/82	1	Rev. Q&Vs, Added Protective Fill Note.

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

AREA
TAX MAP 41 AND 42
PARCELS 13, 54 PART OF 5, 368, 17

TITLE
STORM DRAIN PROFILES

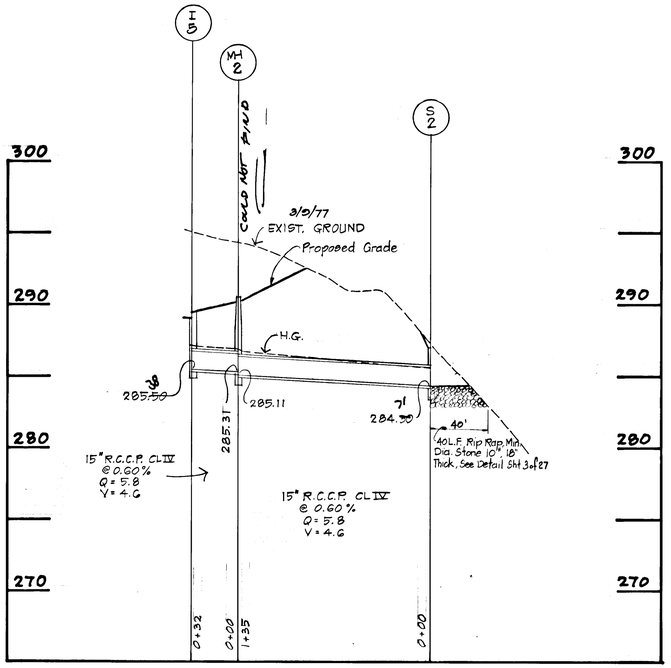
Des By T.D.	Scale AS SHOWN	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 21 OF 27
Chk By G.K.	Approved	

#445

BRUNING 44-132 28586

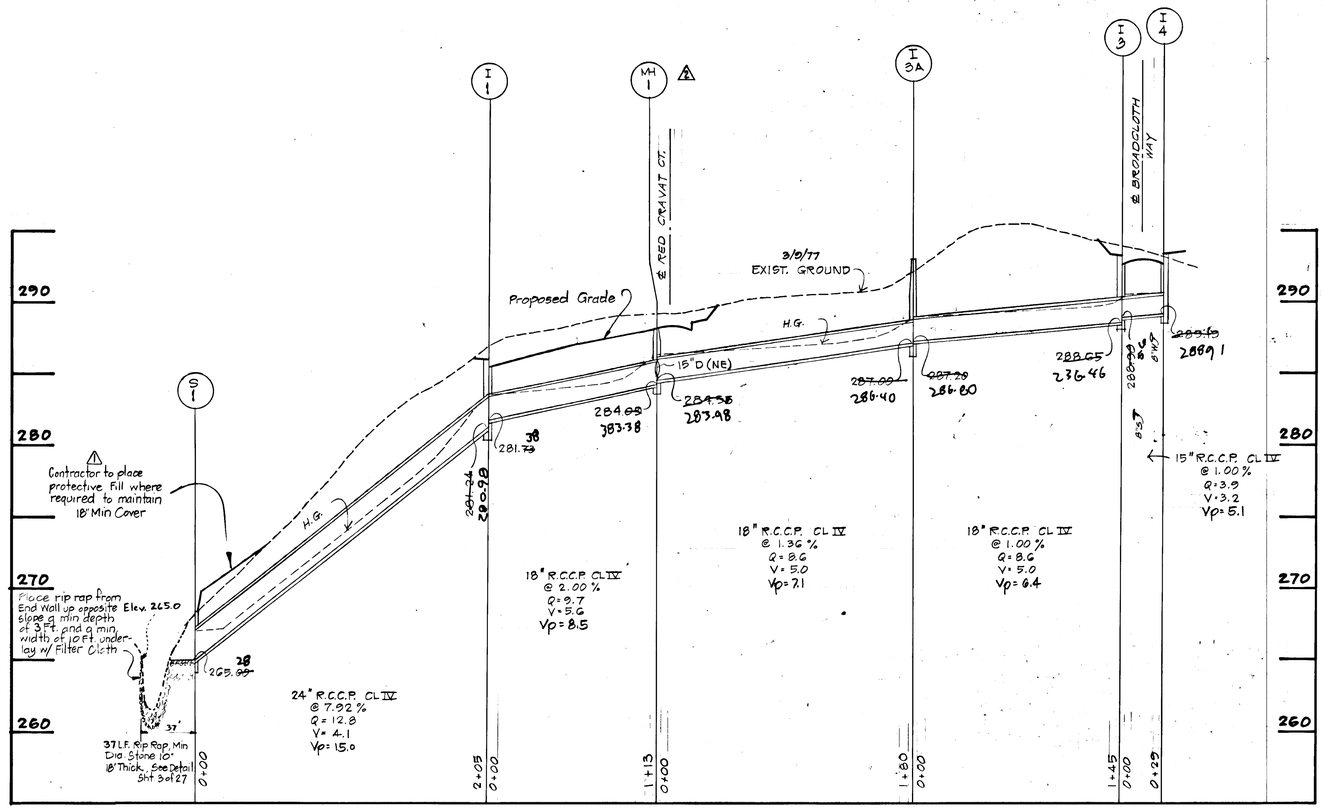
F-81-89

5-11-88



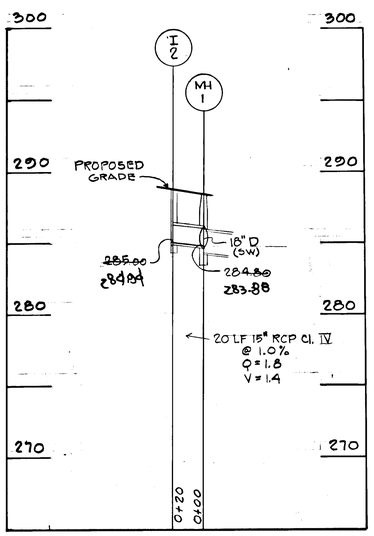
PROFILE

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



PROFILE

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



PROFILE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description
5/23/84	4	Added & Changed Profile
11/1/82	3	Added Protective Fill Note

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III

6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
Columbia, Maryland

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

5-22-81
Date

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

Professional Engr. No. 10551

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

TITLE
STORM DRAIN PROFILES

Des By T.D.	Scale 1" = 50'	Proj No 0579
Drn By J.C.	Date 3-7-80	Drawing No. 22 OF 27
Chk By G.K.	Approved	

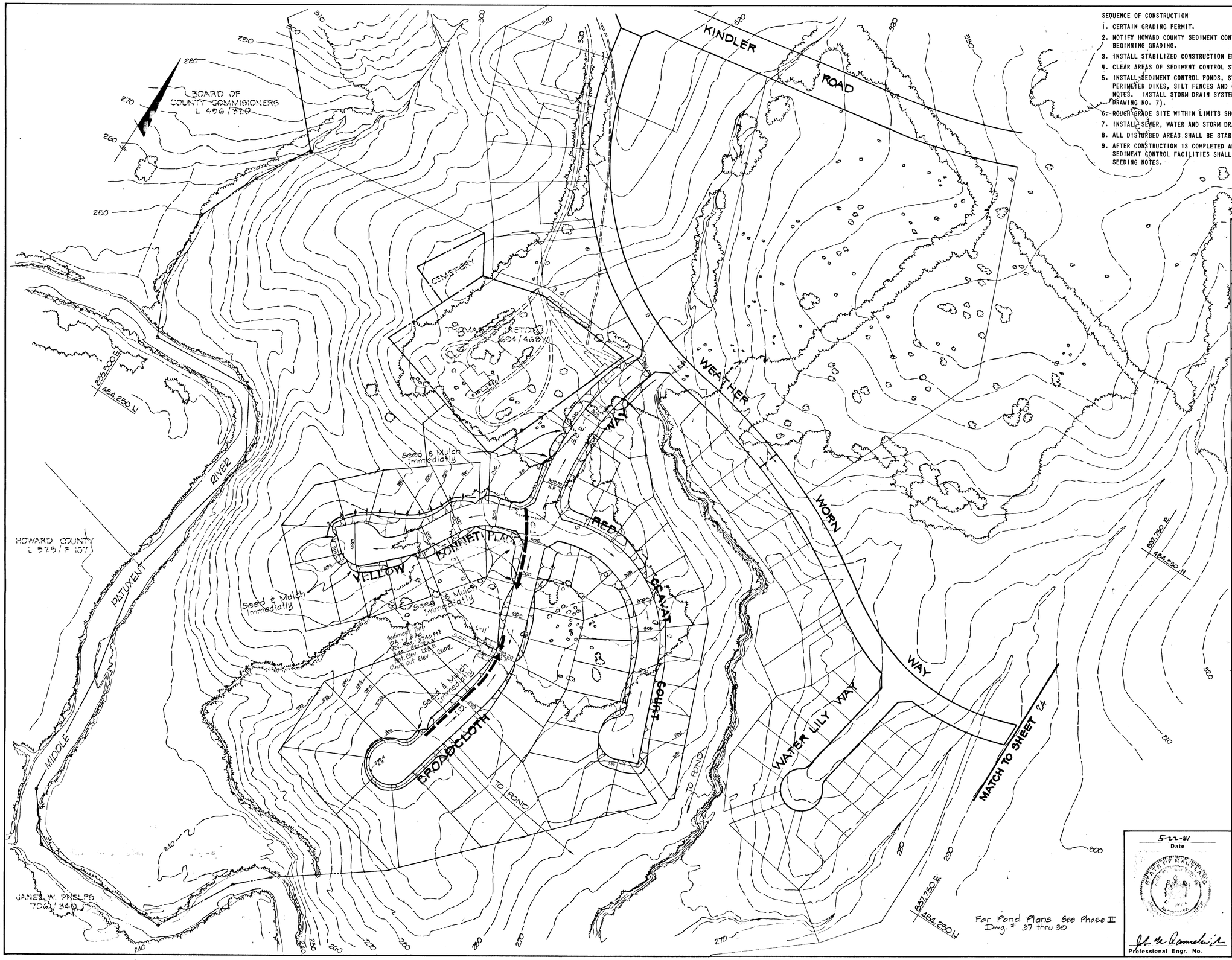
As-Build Survey Certified by Richard F. Lane Reg. LS # 301 11-6-86

5-11-88 AS BUILD

F-81-89

#445

BRUNING 44132 28586



SEQUENCE OF CONSTRUCTION

1. CERTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY SEDIMENT CONTROL DIVISION (992-2436) AT LEAST 24 HRS. PRIOR TO BEGINNING GRADING.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
4. CLEAR AREAS OF SEDIMENT CONTROL STRUCTURES ONLY.
5. INSTALL SEDIMENT CONTROL PONDS, STONE OUTLET STRUCTURES, SEDIMENT TRAPS, STRAW-BALE DIKES, PERIMETER DIKES, SILT FENCES AND CLEAN WATER INLETS AND STABILIZE AS PER TEMPORARY SEEDING NOTES. INSTALL STORM DRAIN SYSTEM FROM S10 TO I-31 (FOR PIPE SIZES AND INLET TYPES SEE DRAWING NO. 7).
6. ROUGH GRADE SITE WITHIN LIMITS SHOWN.
7. INSTALL SEWER, WATER AND STORM DRAINS. BLOCK ALL INLETS AND REPAIR SEDIMENT CONTROL DEVICES
8. ALL DISTURBED AREAS SHALL BE STABILIZED AS PER TEMPORARY SEEDING NOTES.
9. 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.

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

U.S. Soil Conservation Service — Date 6-26-81

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

APPROVED: Howard S.C.D. — Date 6-26-81

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. Ranocchia, Sr. (No. 10511) — Date 5-22-81

CERTIFICATION BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Joseph H. Necker, Jr. — Date 5-22-81

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

5-22-81
Date

STATE OF MARYLAND

Professional Engr. No.

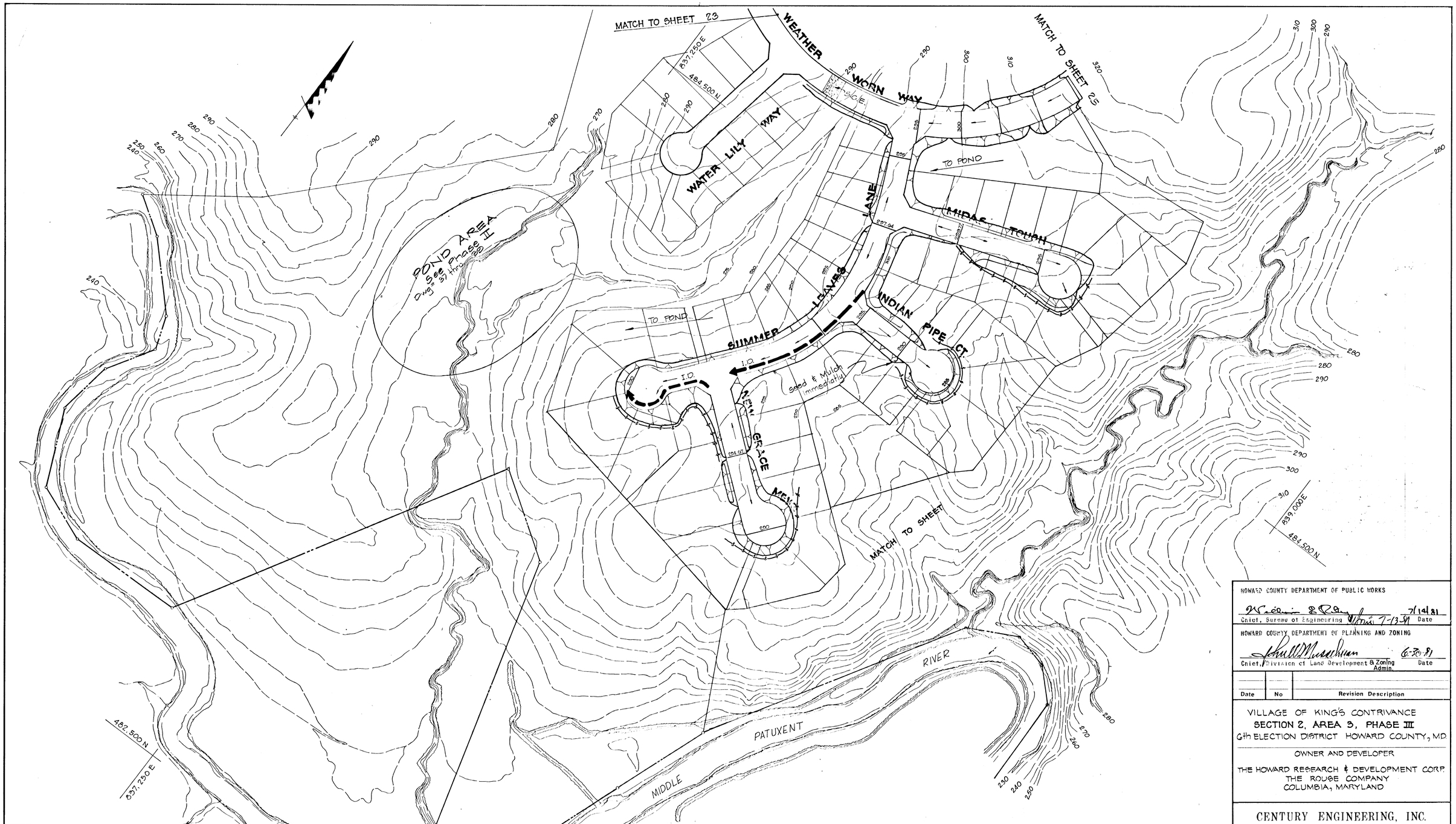
AREA
TAX MAP 41 & 42
PARCELS 13, 54 PART OF 5, 358, 17

TITLE
SEDIMENT CONTROL PLAN

Des By JWR	Scale 1"=100'	Proj No 0579
Drn By TD	Date 1/28/81	Drawing No. 23 OF 27
Chk By GPM	Approved	

#445

BRUNING 44-132 28586



HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Admin. — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

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

TITLE
SEDIMENT CONTROL PLAN

Des By JWR	Scale 1"=100'	Proj No 0575
Drn By TD	Date 1/21/81	Drawing No. 24 OF 27
Chk By GPM	Approved	

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

Chief, Soil Conservation Service — Date 6-26-81

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

APPROVED: Howard S.C.D. — Date 6-26-81

CERTIFICATION BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Joseph H. Necker, Jr. — Date 5-22-81

CERTIFICATION BY THE ENGINEER:

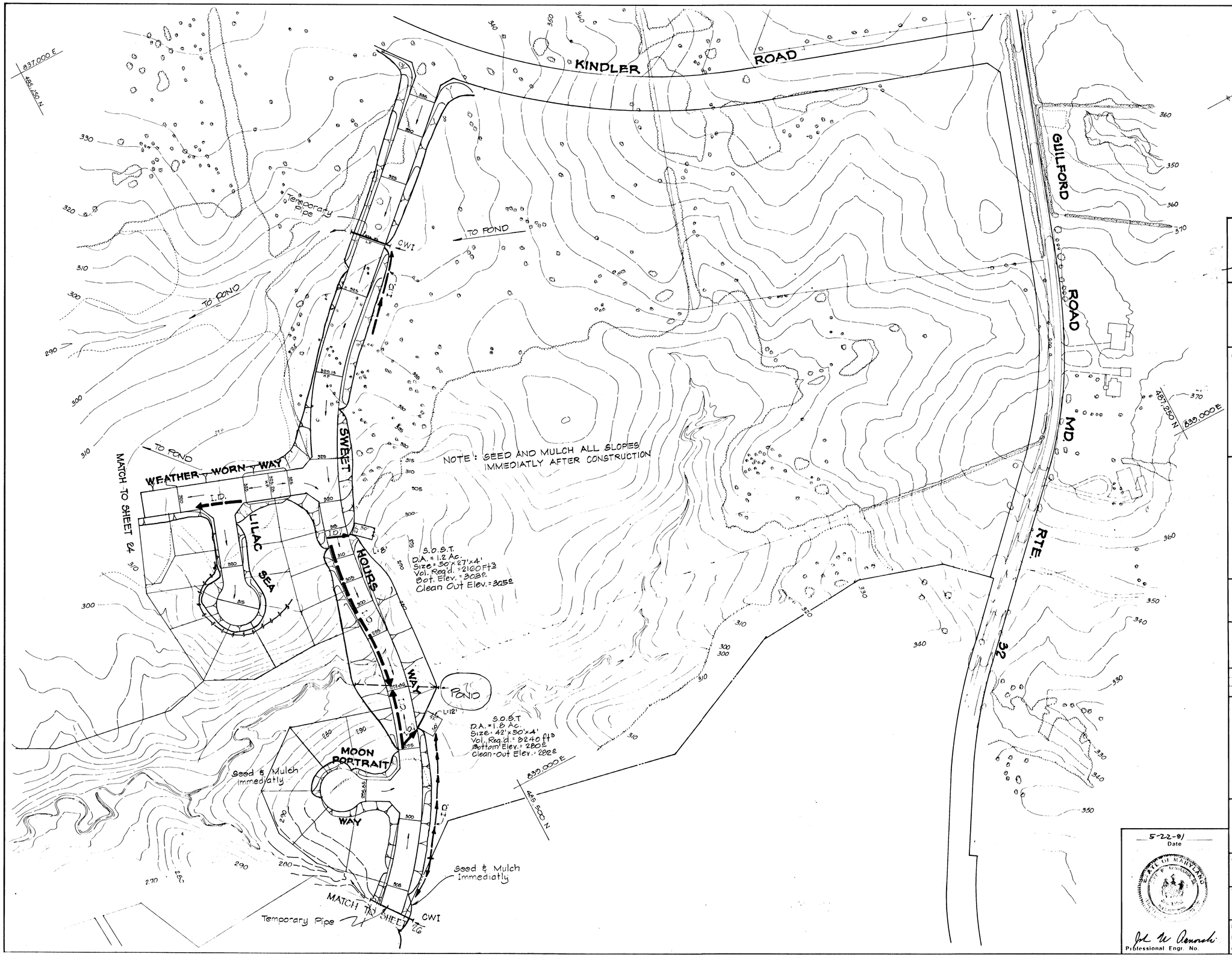
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT".

John W. Ranoccnia, Sr. (No. 10551) — Date 5-22-81

5-22-81 Date

STATE OF MARYLAND — JOHN W. RANOCCHIA, SR. — No. 10551 — REGISTERED PROFESSIONAL ENGINEER

Professional Engr. No.



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

U.S. Soil Conservation Service — Date: 6-26-81

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

APPROVED: Howard S.C.D. — Date: 6-26-81

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. Ranocchia, Sr. (No. 10551) — Date: 5-22-81

CERTIFICATION BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Joseph H. Necker, Jr. — Date: 5-22-81

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date: 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development & Zoning Admin. — Date: 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

5-22-81
Date

Professional Engr. No.

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

TITLE
SEDIMENT CONTROL PLAN

Des By	Scale 1" = 100'	Proj No 0579
Drn By	Date	Drawing No. 25 OF 27
Chk By	Approved	

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

U.S. Soil Conservation Service — Date 6-26-81

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

APPROVED: Howard S.C.D. — Date 6-26-81

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. Ranocchia, Sr. (No. 10551) — Date 5-22-81

CERTIFICATION BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Joseph H. Necker, Jr. — Date 5-22-81

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7/14/81

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Administration — Date 6-30-81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE III
6th ELECTION DISTRICT HOWARD COUNTY, MD.

OWNER AND DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

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

5-1-81
Date

STATE OF MARYLAND — JOHN W. RANOCCHIA — REGISTERED PROFESSIONAL ENGINEER — No. 10551

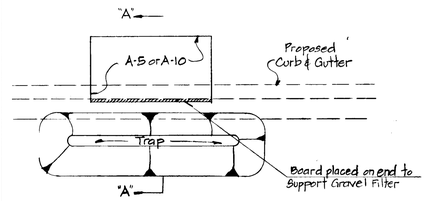
Professional Engr. No.

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

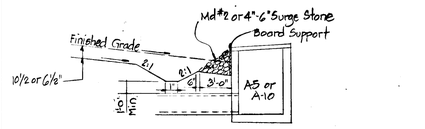
TITLE
SEDIMENT CONTROL PLAN

Des By	G.P.M.	Scale	1"=100'	Proj No	0870
Drn By	T.D.	Date	1/22/81	Drawing No.	26 OF 27
Chk By	J.W.R.	Approved			

BRUNING 44-132 28586

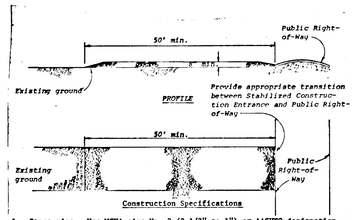


PLAN



SECTION "A-A"

INLET BLOCKING DETAIL

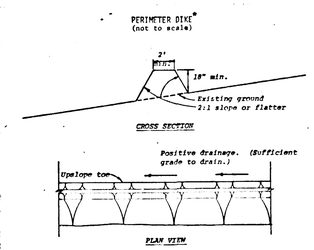


Construction Specifications

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

Standard Symbol SCE

CONSTRUCTION ENTRANCE



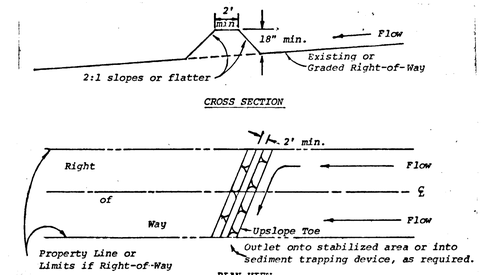
Construction Specifications

1. All dikes shall be machine compacted.
2. All perimeter dikes shall have positive drainage to an outlet.
3. 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 sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol PD

* Drainage area less than 5 acres

PERIMETER DIKE



Construction Specifications

1. All dikes shall be machine compacted.
2. All interceptor dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
5. 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.
6. 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.
7. Periodic inspection and required maintenance must be provided.

* Drainage area less than 5 acres. Standard Symbol ID

INTERCEPTOR DIKE

SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

1. A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2070)
2. 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.
3. SITE GRADING WILL BEGIN ONLY AFTER PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
4. 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.
5. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
6. 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.
7. 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.
8. 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".
9. SEDIMENT CONTROL WILL BE INSTALLED BEFORE CLEARING AND GRUBBING REMAINDER OF SITE.
10. BLOCK ALL 'A' TYPE INLETS WITH SAND-BAGS TO PREVENT SILT FROM ENTERING STORM DRAIN.
11. BLOCK ALL COMBINATION INLETS WITH 3/4" PLYWOOD BOLTED TO GRATE AND SUFFICIENT TO ADEQUATELY COVER OPENING. ALSO USE SAND-BAGS TO SEAL OUT SILT AT ANY SEAM AND CURB OPENING.
12. SECTIONS OF SILT FENCE DISTURBED BY STORM DRAIN CONSTRUCTION WILL BE REPAIRED IMMEDIATELY AND ALL AREAS OF STORM DRAIN CONSTRUCTION BELOW SEDIMENT CONTROL DEVICES WILL BE STABILIZED IMMEDIATELY.

TEMPORARY SEEDING

AREA TO BE SEEDED SHALL BE RECENTLY LOOSENED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.

A. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ.FT.

B. WHERE SOIL IS KNOWN TO BE HIGHLY ACIDIC, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.

C. WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.

D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF $1\frac{1}{2}$ TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ.FT.

PERMANENT SEEDING

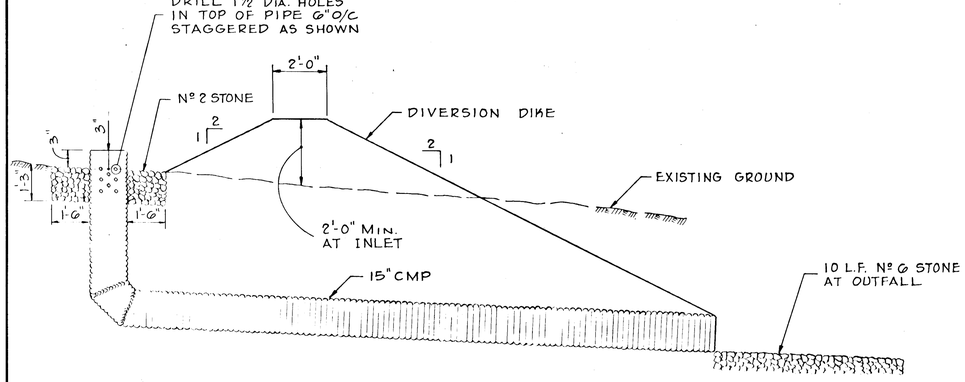
FINAL STABILIZATION WILL TAKE PLACE AS SOON AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

A. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF ONE TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).

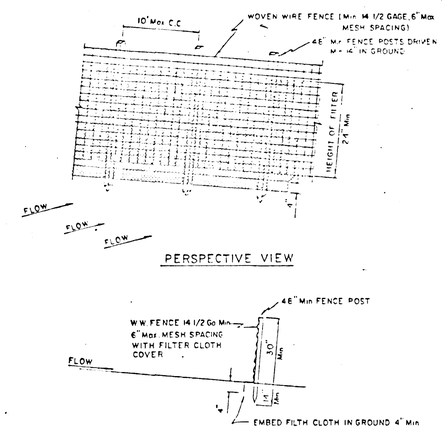
B. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.

C. SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 80 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @60 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN 20 LBS. PER ACRE.

D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF $1\frac{1}{2}$ TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ.FT.



CLEAN WATER INLET



CONSTRUCTION NOTES

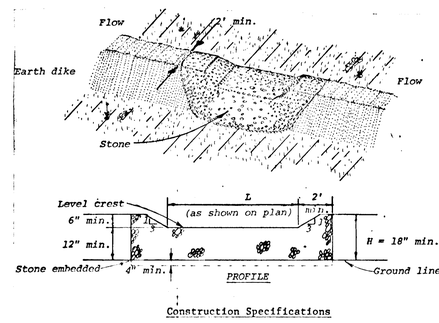
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. SEE STEP BY STEP PROCEDURE ON BACK OF THIS SHEET.

POSTS: STEEL EITHER T or U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14 1/2 Ga Max 6" MESH OPENING

FILTER CLOTH: FILTER X, MIRIFI 100X, LAUREL EROSION CONTROL CLOTH, BIDIM, POLYFILTER X OR EQUAL

SILT FENCE



Construction Specifications

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

Standard Symbol SOS

* Drainage area less than 5 acres

STONE OUTLET STRUCTURE

CERTIFICATION BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

JOSEPH H. NECKER, JR. — DATE 5-22-81

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. RANDOCCHIA - P.E. 10651 — DATE 3/7/80

3/7/80 Date

Professional Engr. No. 10651

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 7/14/81

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION — DATE 6.30.81

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

APPROVED: HOWARD S.C.D. — DATE 6-26-81

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

U.S. Soil Conservation Service — DATE 6.26.81

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
Section 2, Area 3, Phase III
6th Election District of Howard County, Maryland

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.
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 G.P.M.	Scale NO SCALE	Proj No 0579
Drn By T.D.	Date 3-7-80	Drawing No. 27 OF 27
Chk By G.P.M.	Approved	

1-86-87