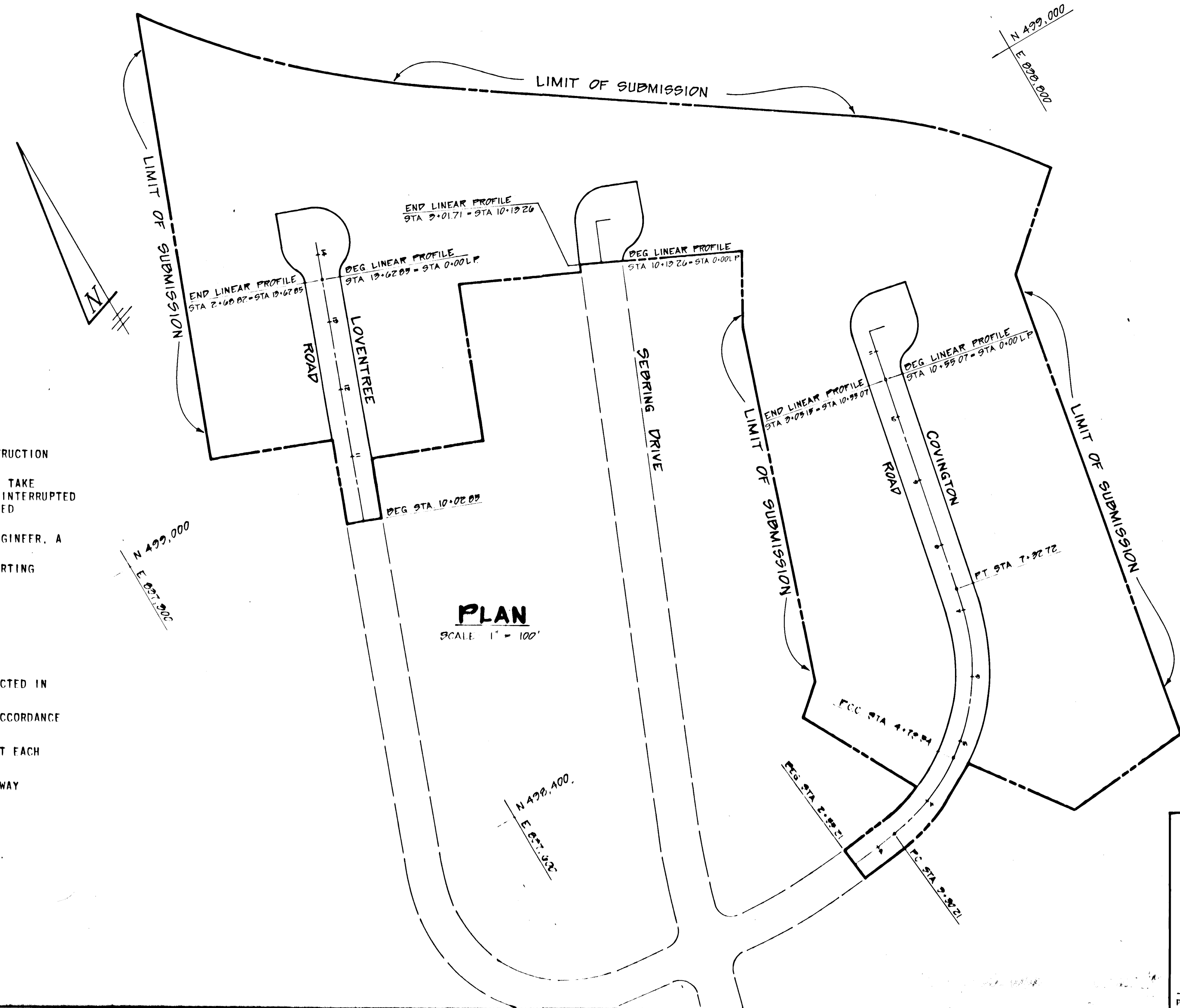
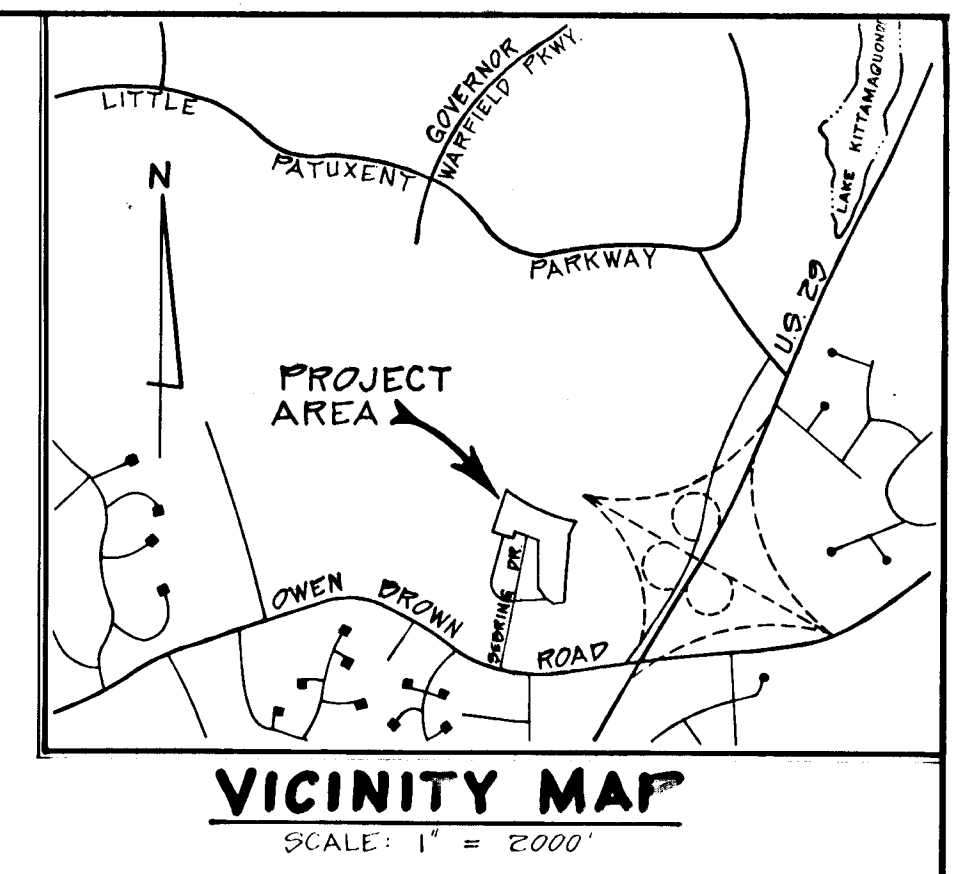


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	DETAIL SHEET
3	PLAN AND PROFILE - COVINGTON ROAD
4	PLAN AND PROFILES- LOVENTREE DR. AND SEBRING DR.
5	DRAINAGE AREA MAP
6	STORM DRAIN PROFILES
7	SEDIMENT CONTROL PLAN
8	SEDIMENT CONTROL DETAILS

# VILLAGE OF HICKORY RIDGE

## SECTION 2 AREA 1

### 5TH ELECTION DISTRICT, HOWARD CO., MD.



**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 3610
LONG DISTANCE CABLE DIVISION	393 3553 or 3554
BALTIMORE GAS AND ELECTRIC COMPANY	539 8000 Ext. 691
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- 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 1971 EDITION.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOC. OF STATE HIGHWAY OFFICIAL STANDARDS:
 

55' 00" R/W	30 M.P.H.
ALL 50' R/W	25 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- ALL FILL AREAS TO BE COMPACTED TO A MINIMUM 95% COMPACTION.

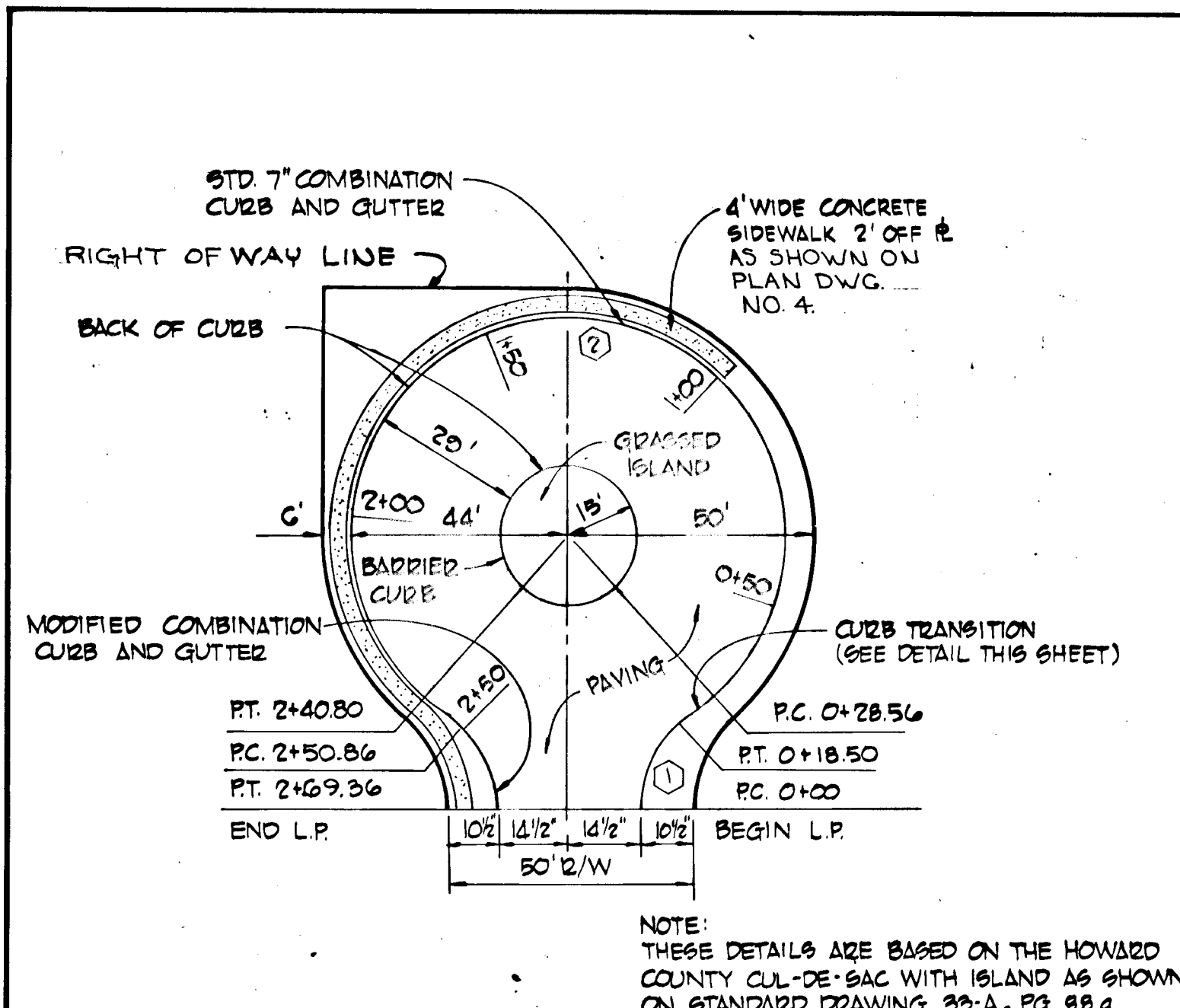
AS-BUILT SURVEY DATA BY WALTER PARK  
MD. L.S. 5537; SEALED & DATED 10/3/80.

**BENCHMARKS**  
 ① X-CUT ON BONNET BOLT (ROADSIDE) OF FIRE HYDRANT,  
 @ 2' BC, LT. SIDE, & STA. 5+81 COVINGTON DR. ELEV. 365.28'  
 ② R.R. SPIKE IN 30" RED OAK TREE @ END OF LOVENTREE  
 DRIVE. ELEV. 357.11

DEPARTMENT OF PUBLIC WORKS	
<i>Walter Park</i>	2-1-80
Chief, Bureau of Engineering	Date
DEPARTMENT OF PLANNING AND ZONING	
<i>Shelley M. ...</i>	12/21/79
Chief, Division of Land Development	Date
Date	No
Revision Description	
VILLAGE OF HICKORY RIDGE Section 2, Area 1 5th Election District of Howard County, Maryland	
OWNER AND DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY Columbia, Maryland 21044	
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204	
AREA TAX MAP 36, PARCEL 267 AND 84	
TITLE TITLE SHEET	
Des By T.P.	Scale AS SHOWN
Drn By A.F.	Proj No 2478
Chk By G.R.K.	Date 6/7/79
Approved	Drawing No. 1 OF 8

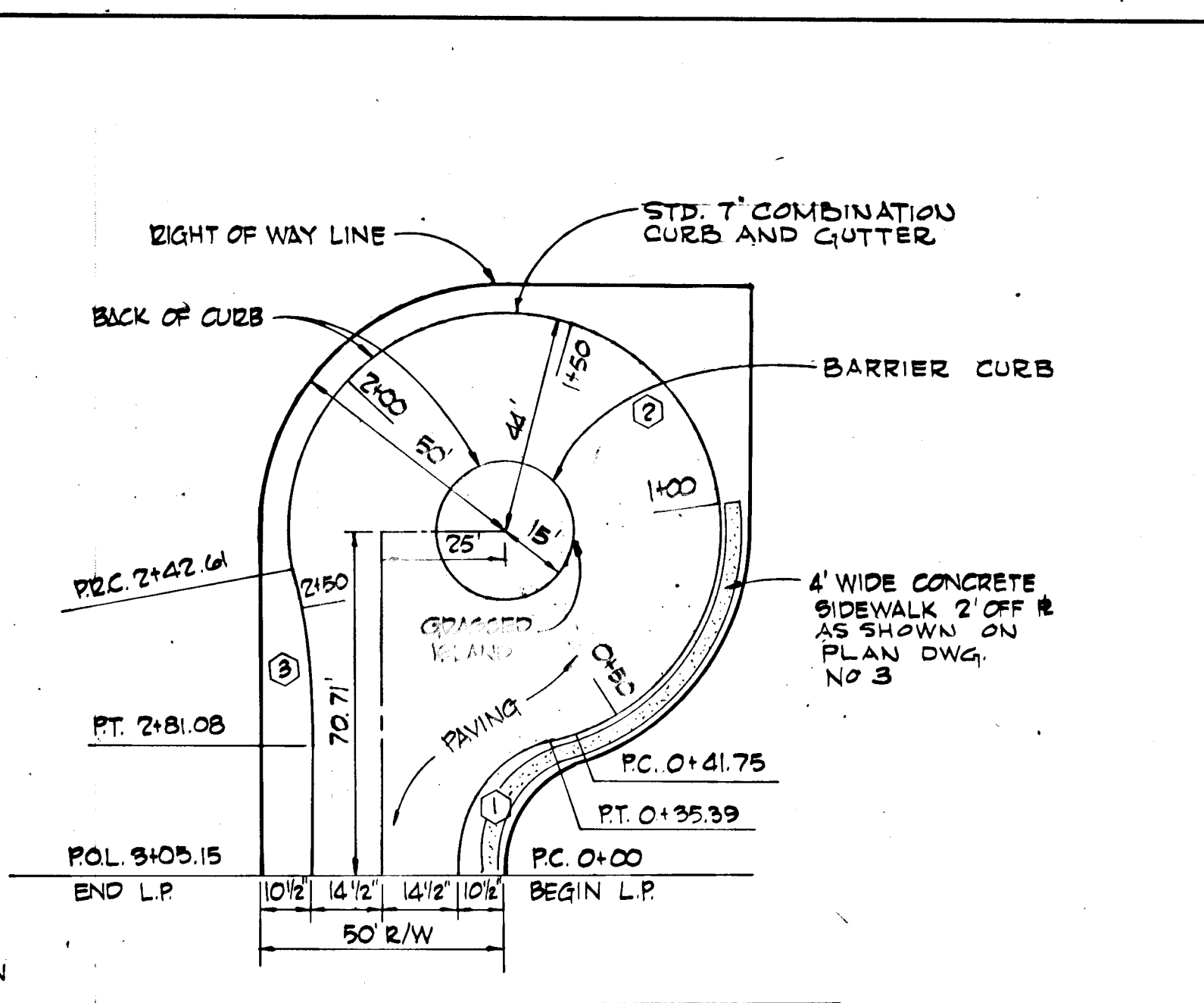
12/12/79  
Date  
*John W. ...*  
Professional Engr. No. 10551

AS-BUILT FEB. 22, 1983



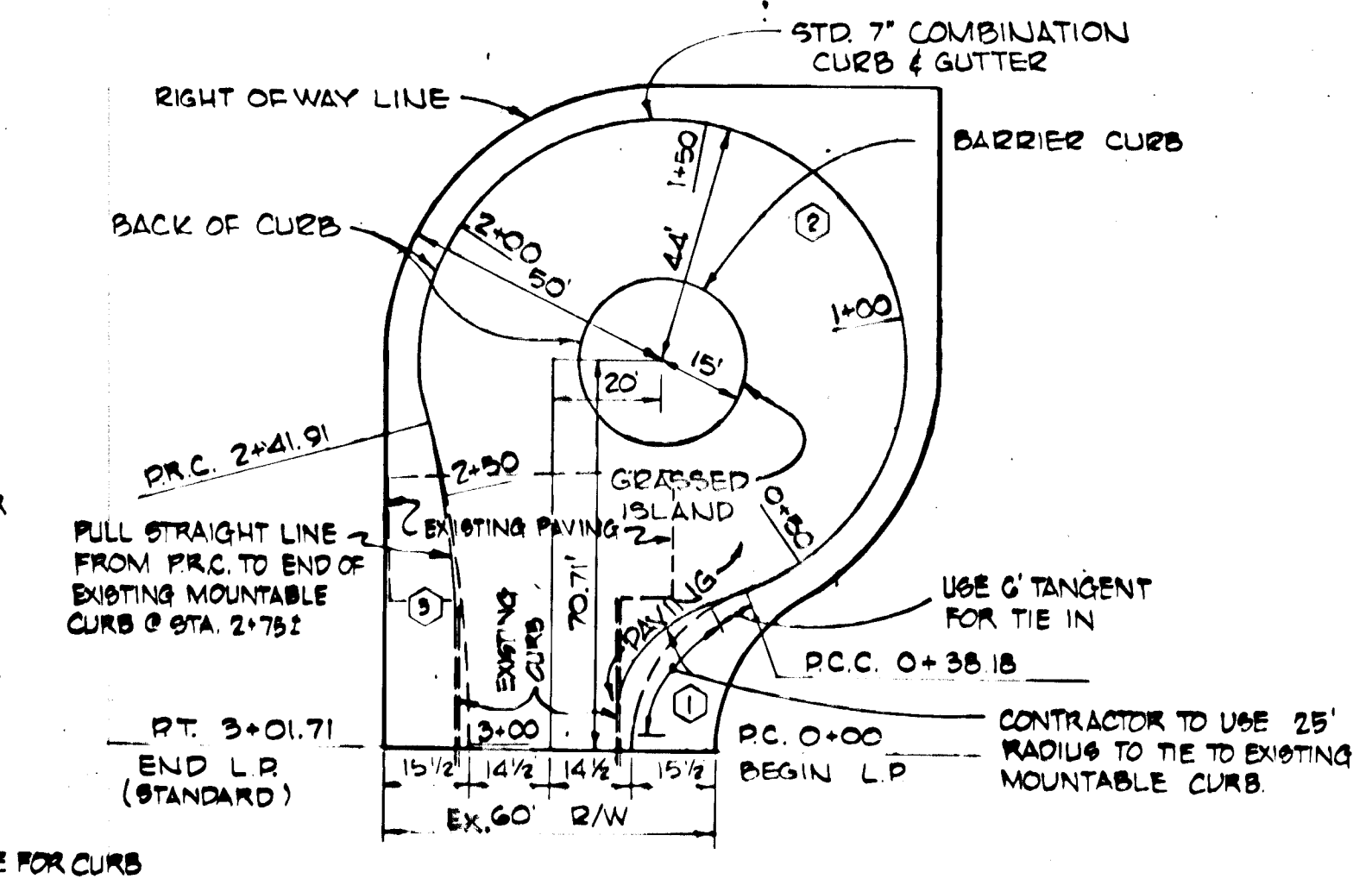
CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
1	22.00'	18.50'	48° 11' 28"	9.84'
2	44.00'	21.24'	27° 22' 48"	-

**LOVENTREE ROAD**  
CUL-DE-SAC FOR A 50' R/W  
Scale: 1"=30'



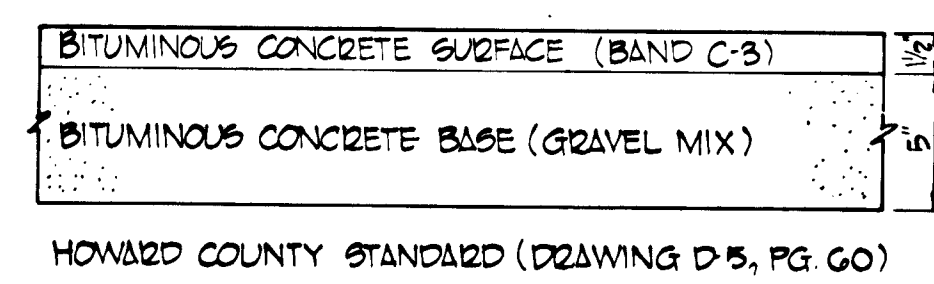
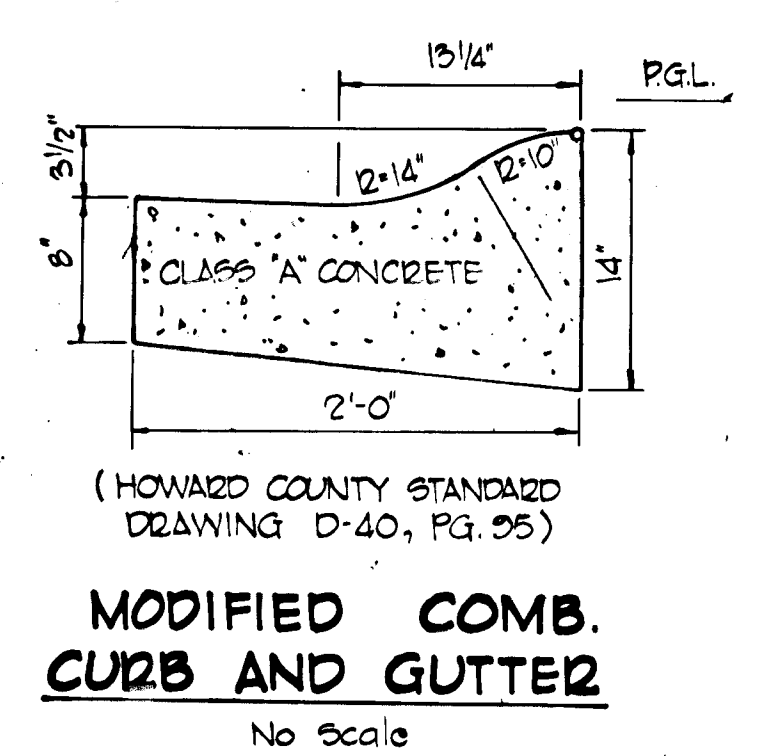
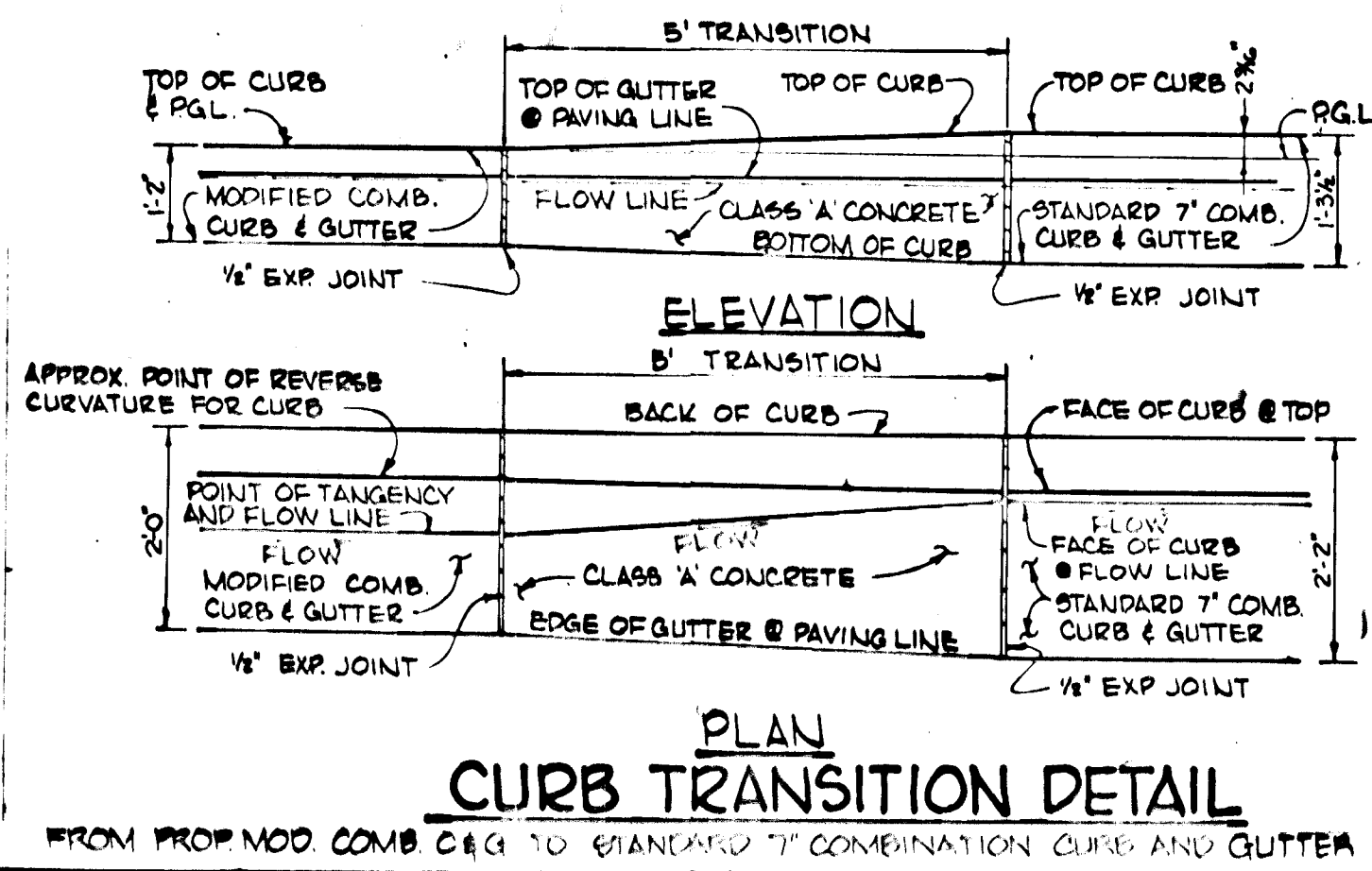
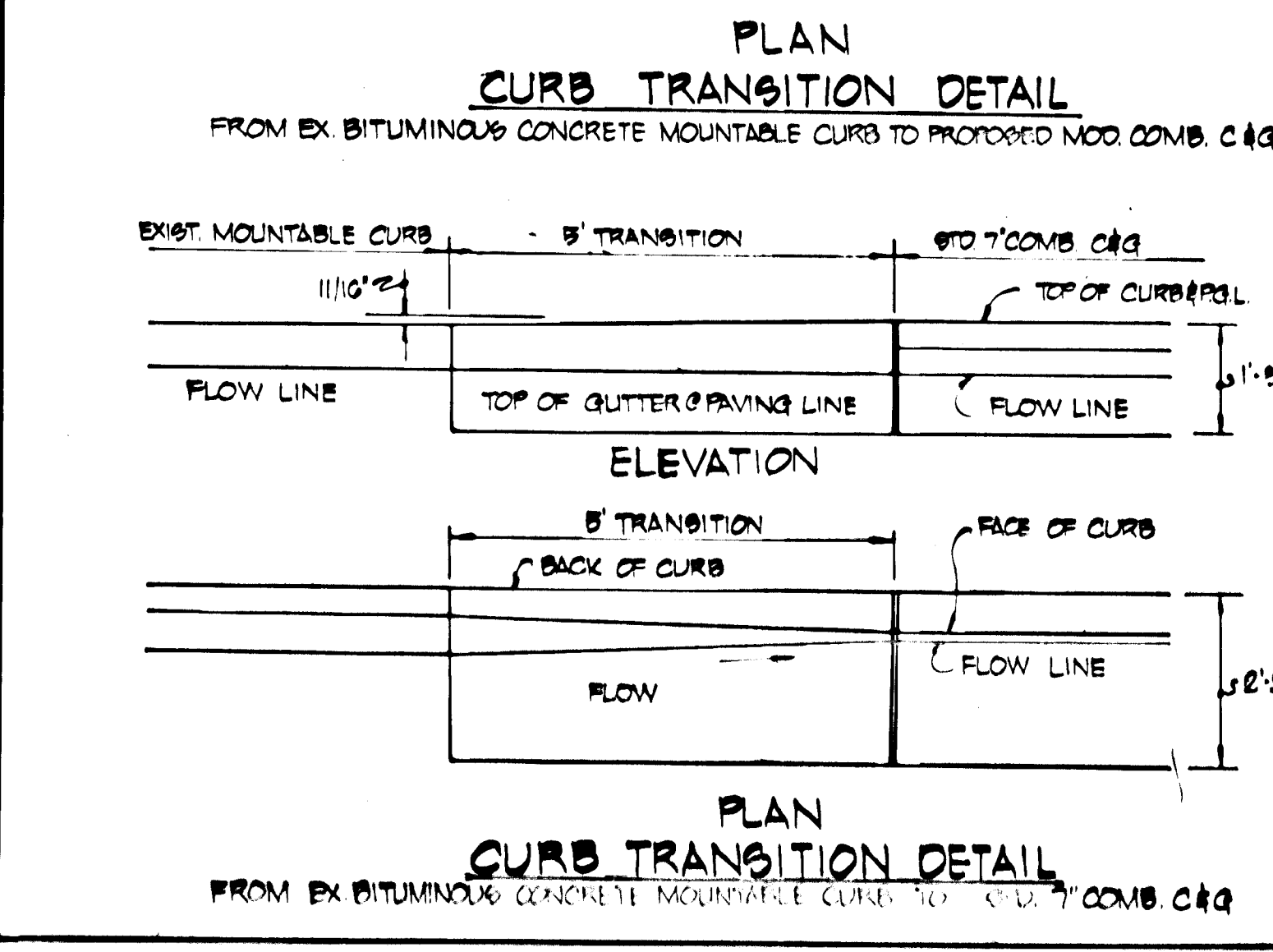
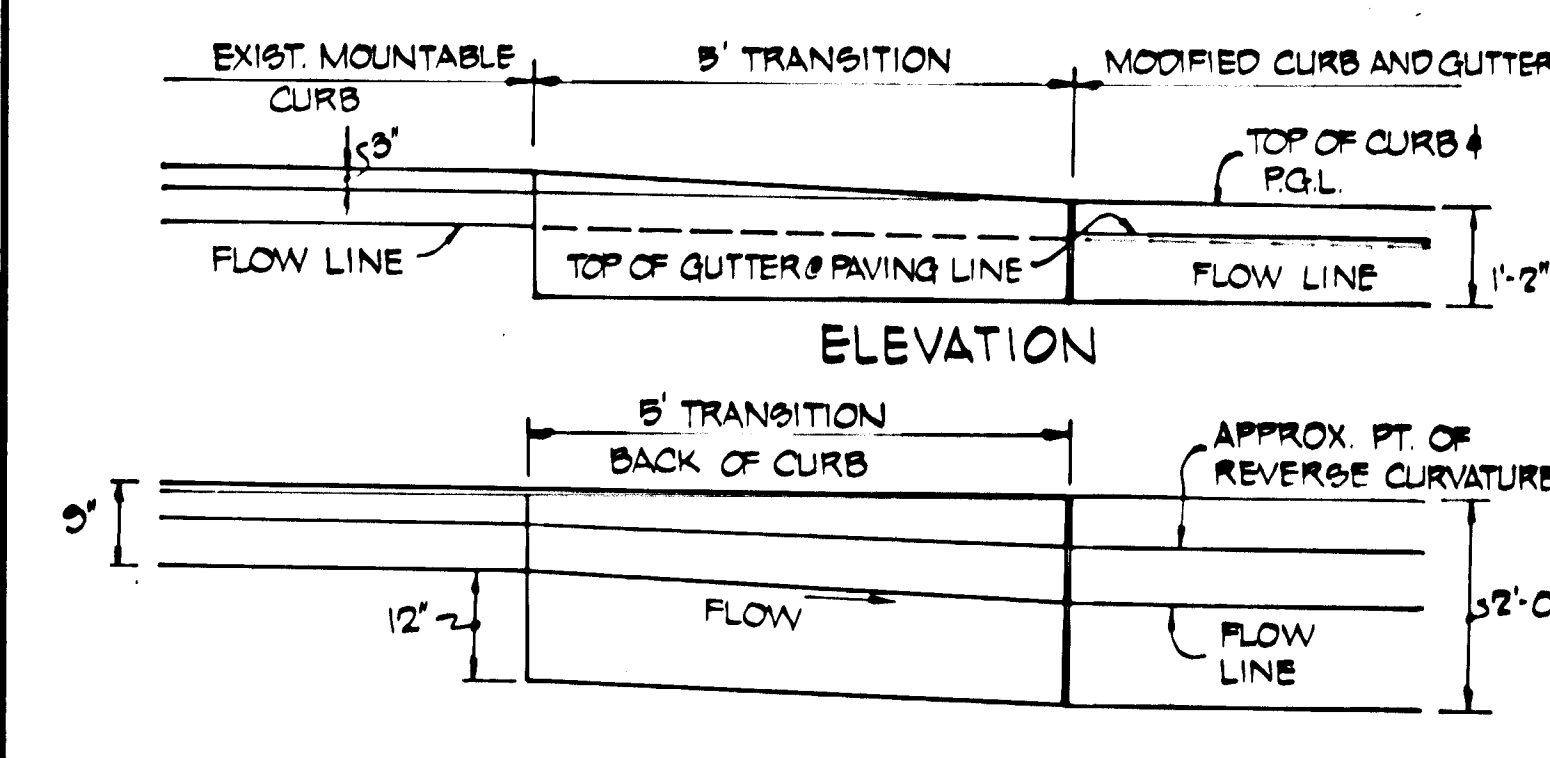
CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
1	28.75'	23.39'	70° 31' 44"	20.33'
2	44.00'	20.86'	261° 32' 59"	-
3	200.00'	58.47'	11° 01' 15"	19.29'

**COVINGTON ROAD**  
CUL-DE-SAC FOR A 50' R/W  
Scale: 1"=30'



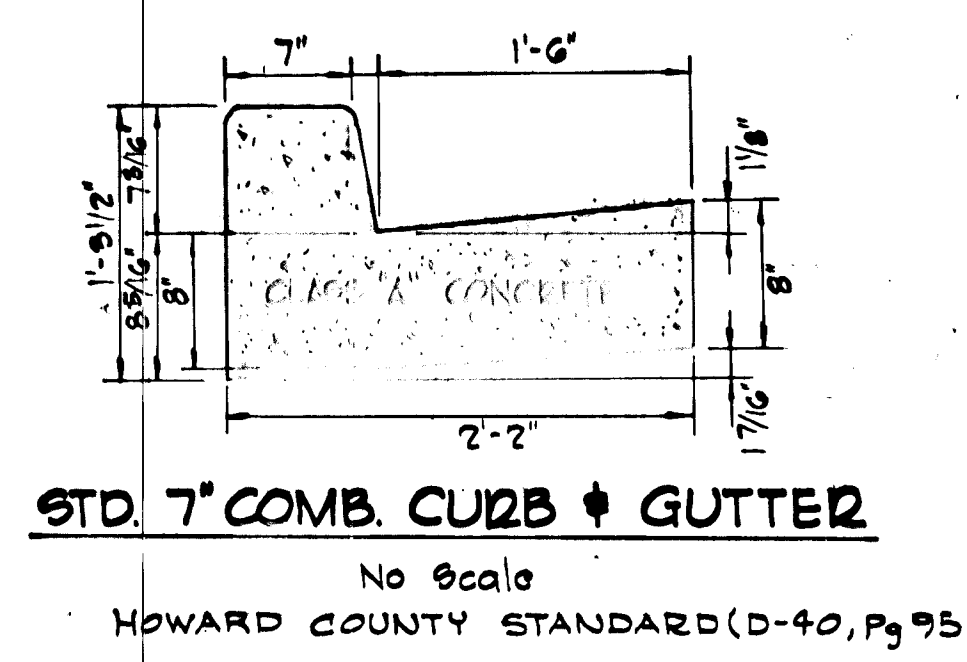
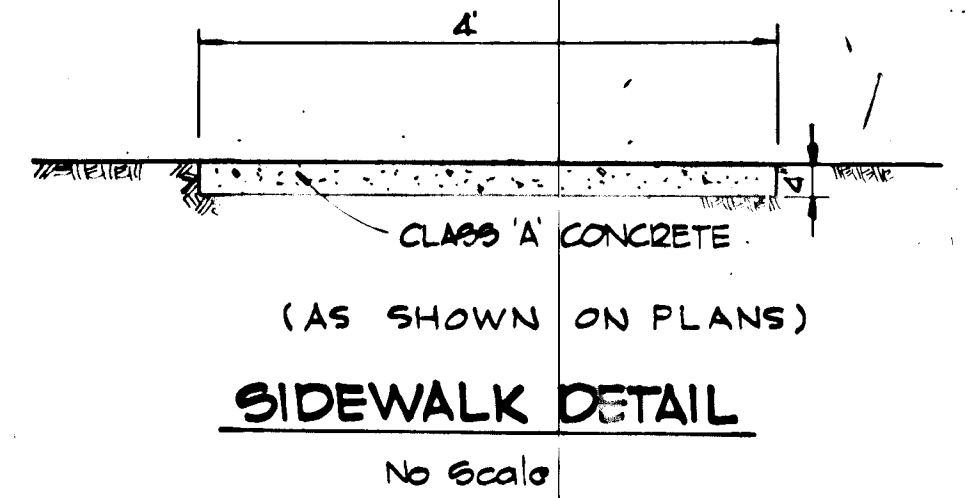
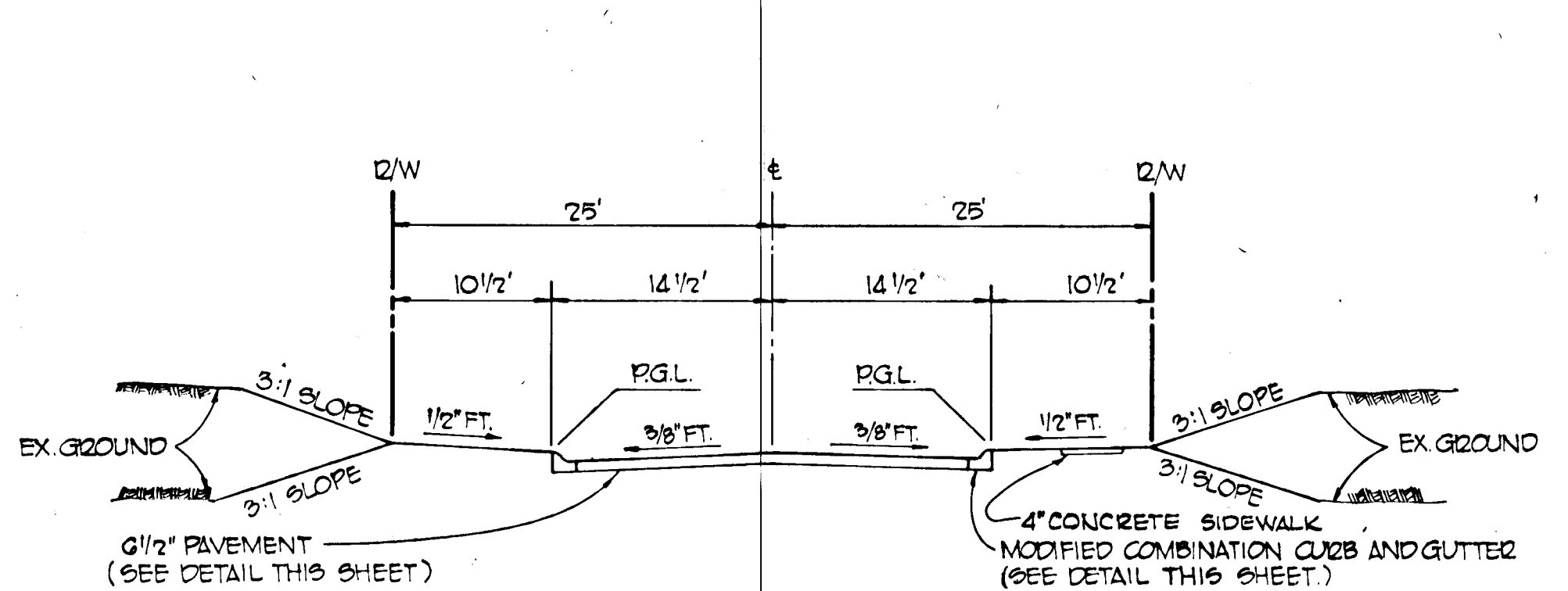
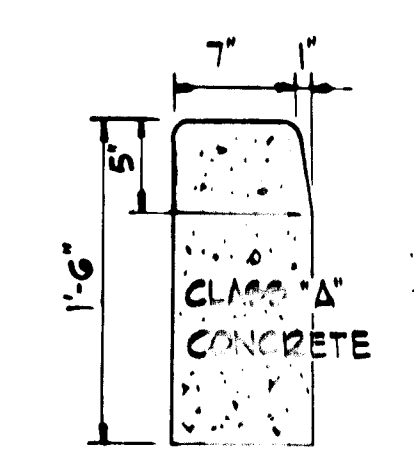
STANDARD CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
1	31.25'	35.18'	69° 59' 14"	21.88'
2	44.00'	20.73'	245° 17' 29"	-
3	223.90'	59.80'	15° 18' 14"	30.08'

**SEBRING DRIVE**  
CUL-DE-SAC FOR A 60' R/W  
Scale: 1"=30'



- CLEARING AND GRADING ARTICLE C1  
SUBGRADE ARTICLE C2  
BASE COURSE ARTICLE C33  
SURFACE COURSE ARTICLE C31
- 6 1/2" PAVEMENT**
- NOTE:  
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.  
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.  
3. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.

**TYPICAL PAVING SECTION**  
No Scale



AS BUILT SURVEY DATA  
BY WALTER PARK, MD L.S.  
5537, SEALED & DATED 10/2/80.

DEPARTMENT OF PUBLICWORKS  
Chief, Bureau of Engineering  
Office of Planning and Zoning  
Chief, Division of Land Development

2-11-80  
2-11-80  
12-21-79

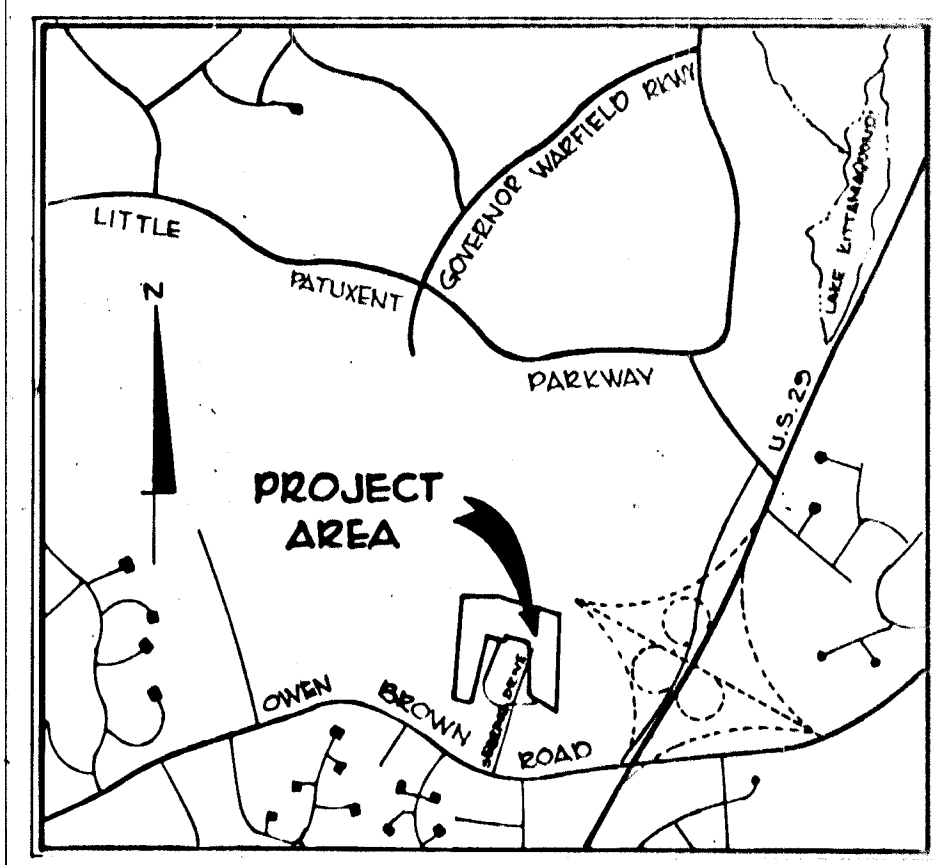
12/12/79  
Date  
John W. Rannick, Jr.  
Professional Engr., No. 12537

Date	No.	Revision Description
		VILLAGE OF HICKORY RIDGE Section 2, Area 1 5th Election District of Howard County, Maryland
		OWNERS AND DEVELOPERS THE HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY Columbia, Maryland 21044
		CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204
		AREA TAX MAP 36, PARCEL 267 AND 84
		TITLE DETAIL SHEET
Des By	T.P.D.	Scale AS SHOWN Proj No 26-78
Drn By	T.P.D.	Date 6/17/79 Drawing No. 2 OF 8
Chk By	G.R.K.	Approved





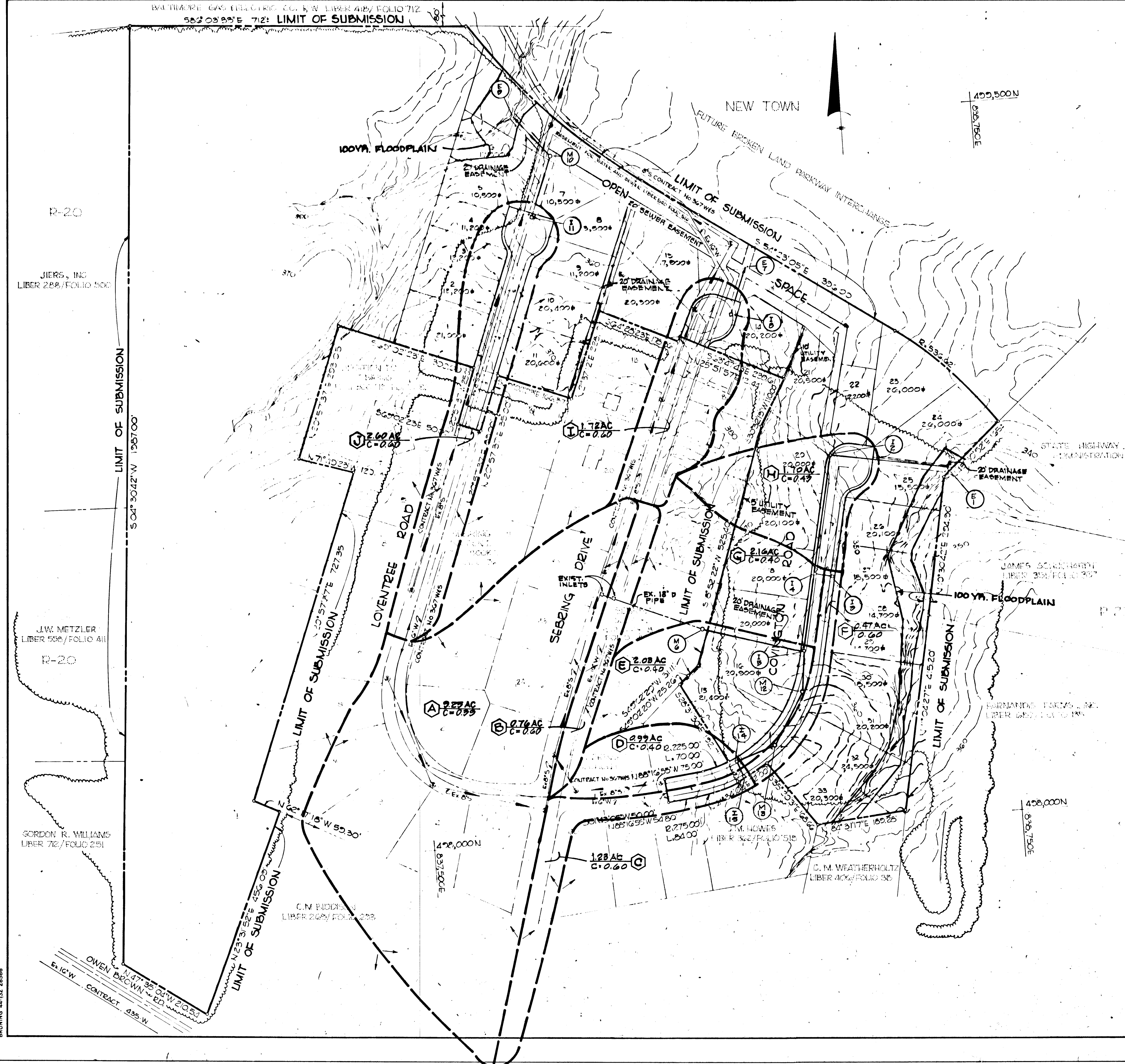
BALTIMORE GAS ELECTRIC CO. N.W. LIBER 418/FOLIO 712  
 S62°03'25"E 712' LIMIT OF SUBMISSION



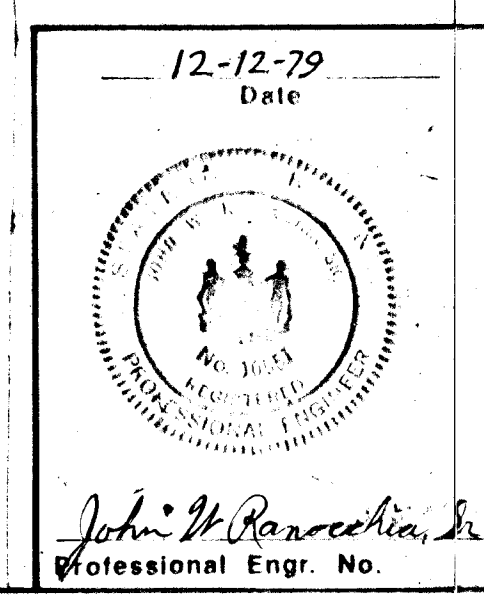
VICINITY MAP  
 Scale: 1" = 2000'

DRAINAGE COMPUTATIONS

LOCATION	FROM	TO	AREA	SUB. TOTAL	COEFF.	CA	ΣCA	TIME COND. - MIN	INTEN.	R-CIA	PIPE N = 0.015			
								INLET DRAIN TOTAL	'	C.F.S.	SIZE	SLOPE	VEL.	LGTH.
EX I-20	EX I-21	A	2.25		0.39	3.61		10 - 10	6.6	23.83	18"	5.8	18.2	20'
EX I-21	B	0.76		0.60	.45		9 - 9	6.25	3.81					
EX I-21	I-5	A+B	10.01				4.06	10 00 10	6.6	26.80	18"	5.8	18.2	20'
I-15	I-14	C	1.23		.60	.74		9 - 9	6.85	5.07	15"	4.6	4	30'
I-14	I-4	D	0.99		.40	.40		10 - 10	6.6	2.64				
I-14	I-5	C+D	2.22				1.14	10 - 10	6.6	7.52	18"	4.6	4.2	310'
I-5	I-5	E	2.03		.40	.81		10 - 10	6.6	5.35				
I-5	I-4	A-E	14.26				6.01	10 12 11.2	6.20	37.26	30"	9.5	7.5	167'
I-3	I-4	F	.47		.60	.28		7.7 - 7.7	7.3	2.04	15"	4.8	4.0	30'
I-4	I-4	G	2.16		.40	.86		10 - 10	6.6	5.68				
I-4	I-2	A-G	16.89				7.15	11.2 .4 11.6	6.15	44.0	30"	1.3	8.8	250'
I-2	I-2	H	1.70		.43	.73		10 - 10	6.6	4.82				
I-2	E-1	A-H	18.59				7.88	11.6 0.5 12.1	6.0	47.30	30"	1.5	9.5	170'
I-8	E-7	I	1.72		0.60	1.03		9 - 9	6.9	7.11	15"	4.4	5.7	65'
I-11	E-9	J	2.60		0.60	1.56		10 - 10	6.6	10.30	18"	4.4	10.5	134'



AS-BUILT SURVEY BY  
 WALTER PARK MD. L.S.  
 5539, SEALED DATED 1/3/80.



DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 Date: 2-11-80

DEPARTMENT OF PLANNING AND ZONING  
 Chief, Division of Land Development  
 Date: 12/27/79

Date	No.	Revision Description

VILLAGE OF HICKORY RIDGE  
 Section 2, Area 1  
 5th Election District of Howard County, Maryland

OWNER AND DEVELOPER  
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
 THE ROUSE COMPANY  
 Columbia, Maryland 21044

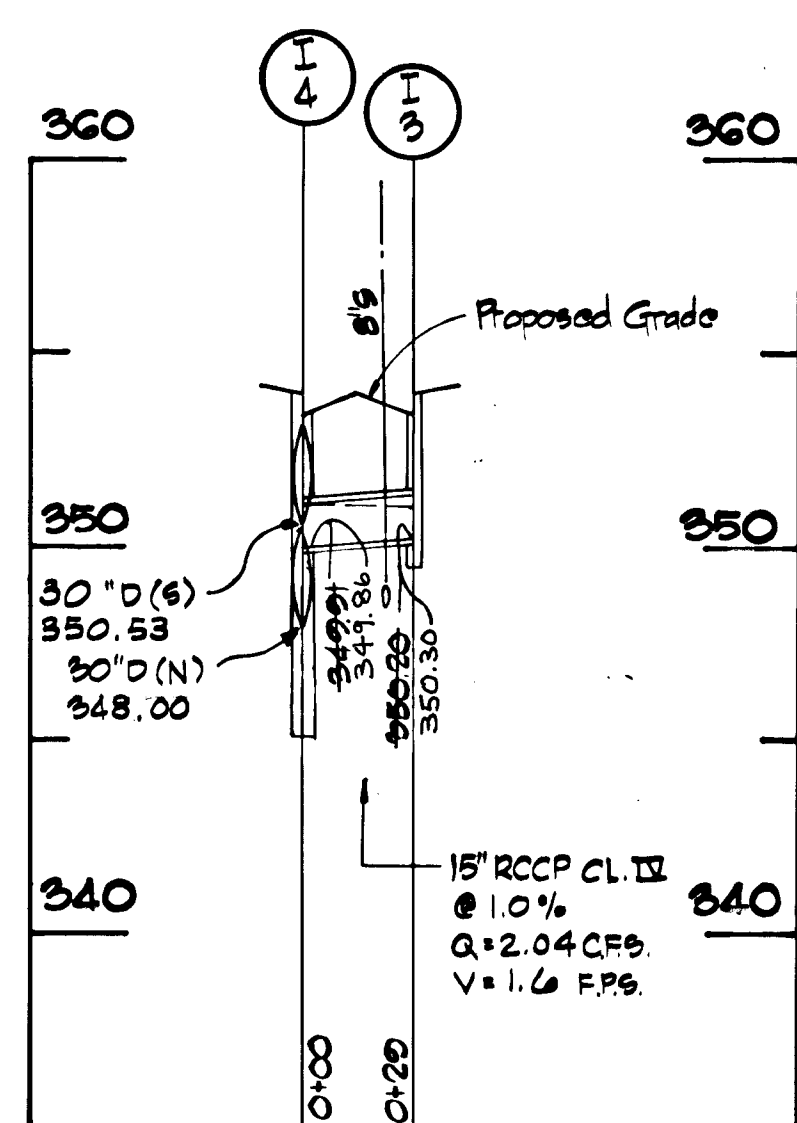
CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS - PLANNERS  
 TOWSON, MARYLAND 21204

AREA  
 TAX MAP 36, PARCEL 267 AND 84

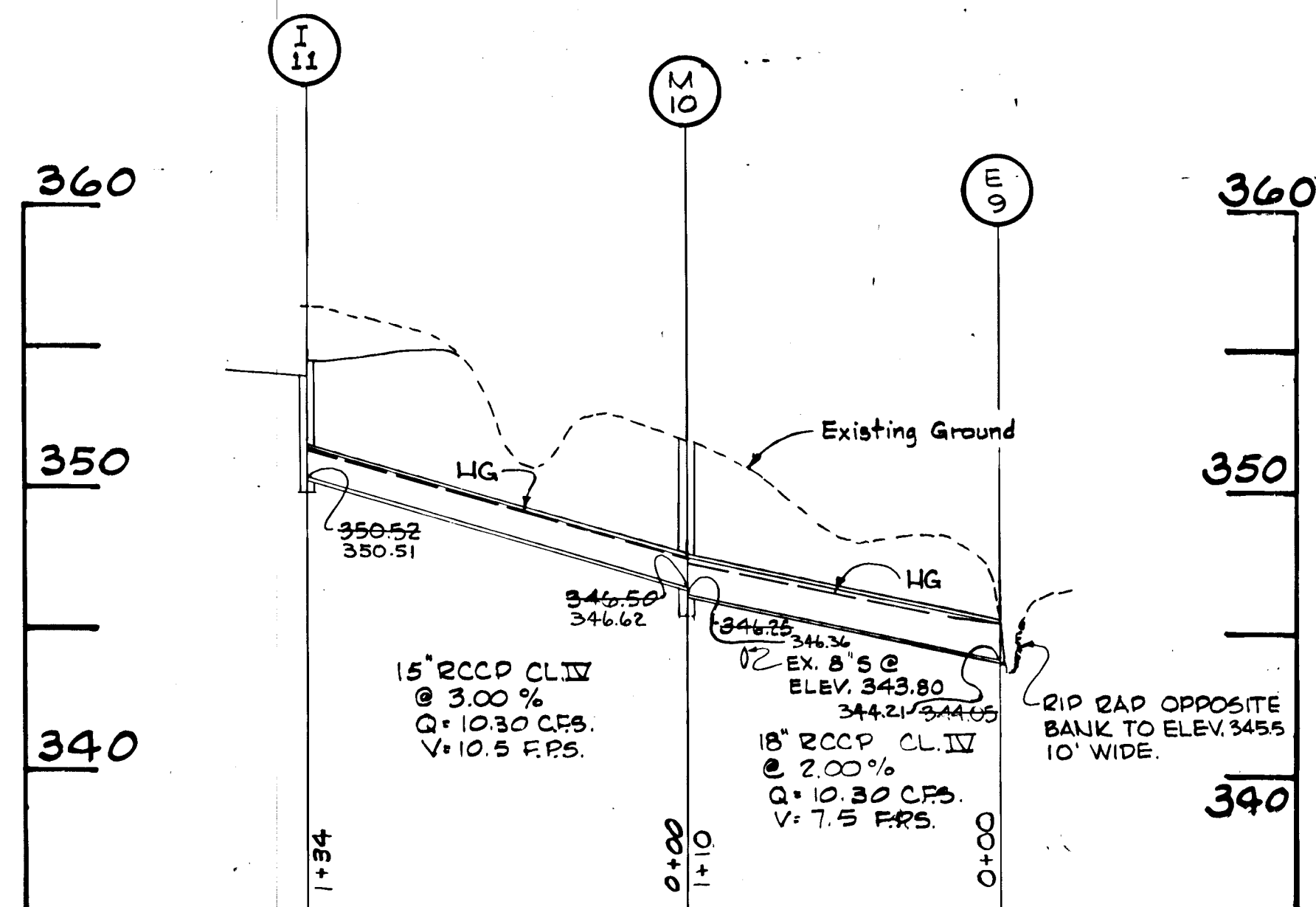
TITLE  
 DRAINAGE AREA MAP

Des By T.P. Scale 1" = 100' Proj No 2678  
 Drn By T.P. Date 6/7/79 Drawing No.  
 Chk By T.P. Approved 5 OF 8

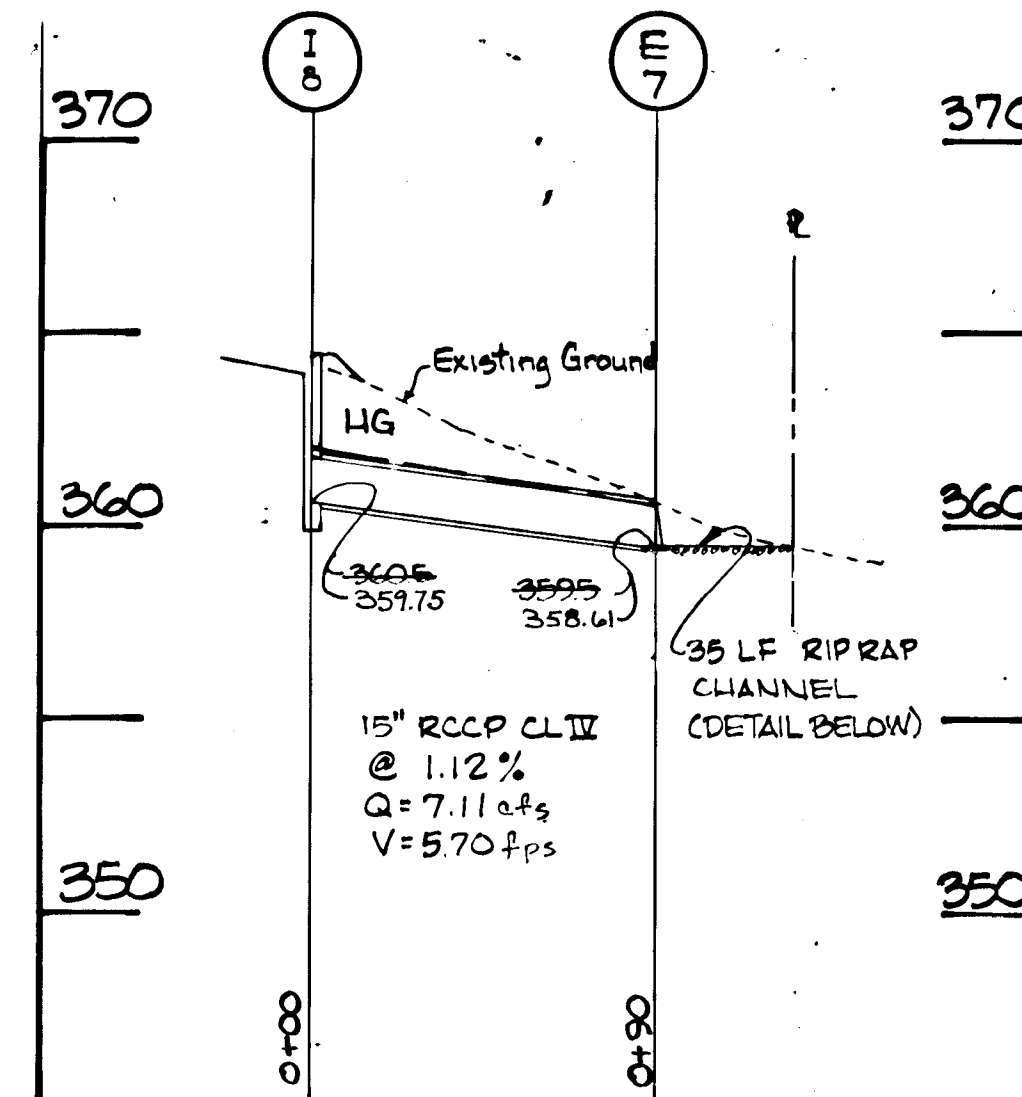
AS-BUILT  
 FEB. 23, 1983



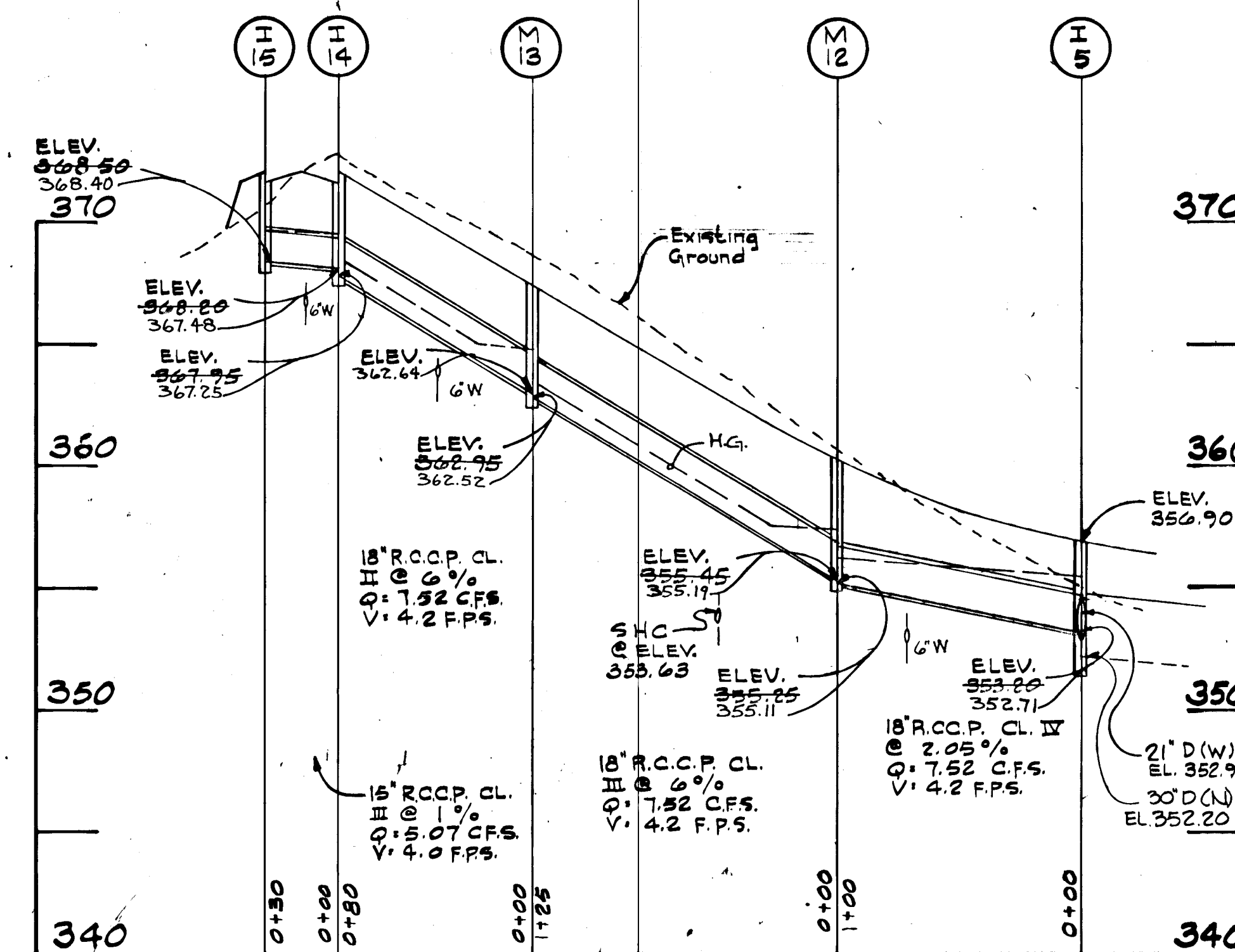
**PROFILE**  
SCALE: HOR 1"=50'  
VERT 1"=5'



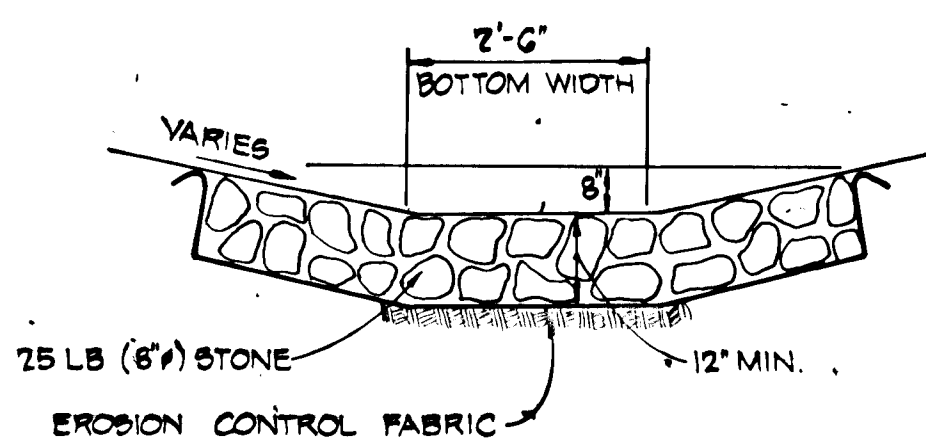
**PROFILE**  
SCALE: HOR 1"=50'  
VERT 1"=5'



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

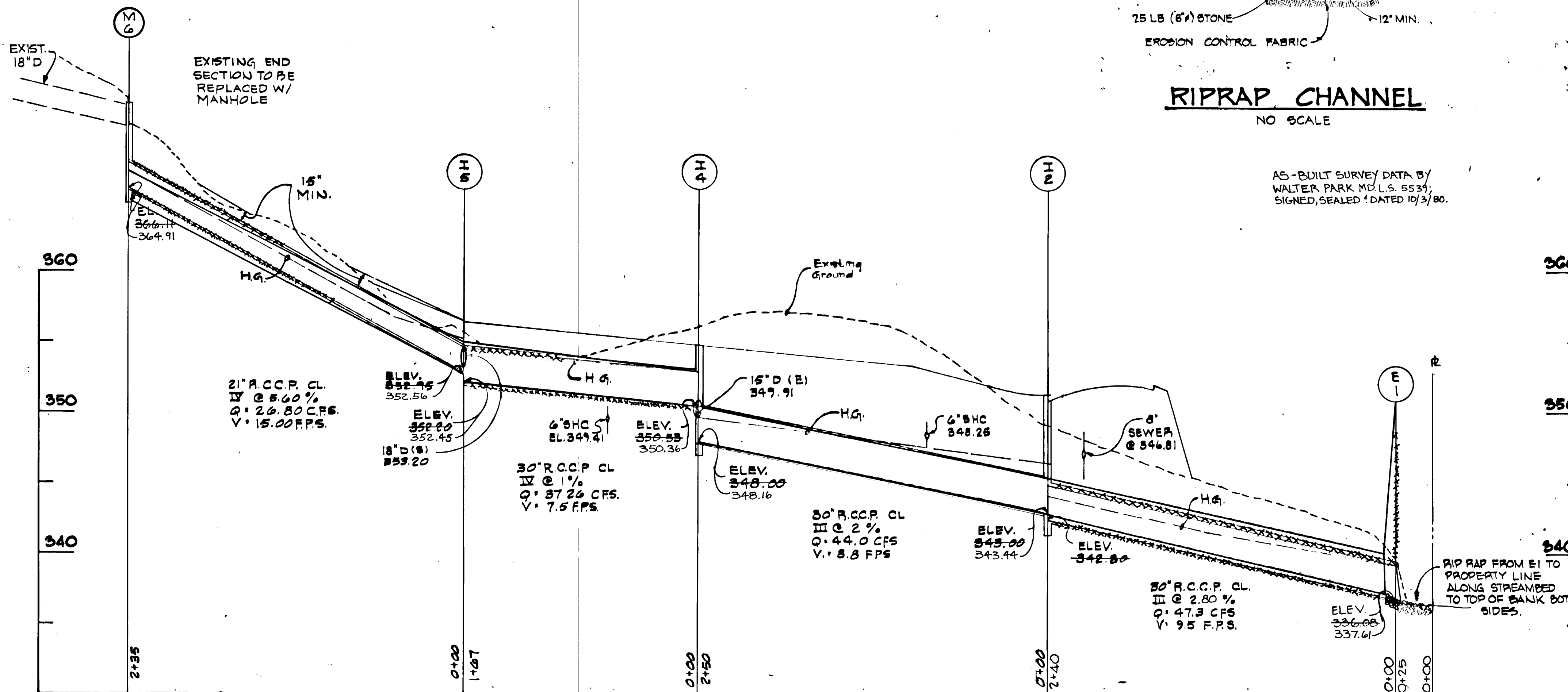


**PROFILE**  
SCALE: HOR 1"=50'  
VERT 1"=5'



**RIPRAP CHANNEL**  
NO SCALE

AS-BUILT SURVEY DATA BY  
WALTER PARK, MD, L.S. 5539,  
SIGNED, SEALED & DATED 10/3/80.



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

SEE PLAN & PROFILE FOR ELEVATIONS.

NO.	TYPE	LOCATION		ELEVATION		REMARKS	
		ROAD	STA. / OFFSET	TOP	INV.		
E-1	PRECAST END SECTION	COVINGTON	SEE PLAN	336.00	336.00	MD, STATE # 368.02	
I-2	A-5 INLET (5' WIDE)	COVINGTON	2+08 *	354.3	342.80	HO. CO. STD. 64A	
I-3	A-5 INLET (2.5' WIDE)	COVINGTON	9+00	15' RT	354.3	350.20	HO. CO. STD. 64A
I-4	A-10 INLET (2.5' WIDE)	COVINGTON	9+00	15' LT	354.3	348.00	HO. CO. STD. 64A
I-5	A-10 INLET (2.5' WIDE)	COVINGTON	7+33	15' LT	356.8	352.20	HO. CO. STD. 64A
M-6	MANHOLE	COVINGTON	SEE PLAN	372.3	366.11	HO. CO. STD. D-103	
E-7	PRECAST END SECTION	SEBRING	SEE PLAN	360.00	360.00	MD, STATE # 368.02	
I-8	A-10 INLET (2.5' WIDE)	SEBRING	1+52 *	-	364.56	360.50	HO. CO. STD. 64A
E-9	PRECAST END SECTION	LOVENTREE	SEE PLAN	344.05	344.05	MD, STATE #368.02	
M-10	MANHOLE	LOVENTREE	SEE PLAN	351.0	346.25	HO. CO. STD. D-103	
I-11	A-10 INLET (2.5' WIDE)	LOVENTREE	1+40 *	-	354.0	350.50	HO. CO. STD. 64A
M-12	MANHOLE	COVINGTON	6+34	2' LT	360.2	355.95	HO. CO. STD. D-103
M-13	MANHOLE	COVINGTON	5+10	8.5' RT	360.9	357.95	HO. CO. STD. D-103
I-14	A-10 INLET (2.5' WIDE)	COVINGTON	4+25	15' LT	372.20	367.95	HO. CO. STD. 64A
I-15	A-10 INLET (2.5' WIDE)	COVINGTON	4+25	15' RT	372.20	366.50	HO. CO. STD. 64A

\* LINEAR PROFILE

DEPARTMENT OF PUBLIC WORKS  
*William S. Rely* 2-11-80  
Chief, Bureau of Engineering Date:

OFFICE OF PLANNING AND ZONING  
*Paul M. ...* 12-21-79  
Chief, Division of Land Development Date:

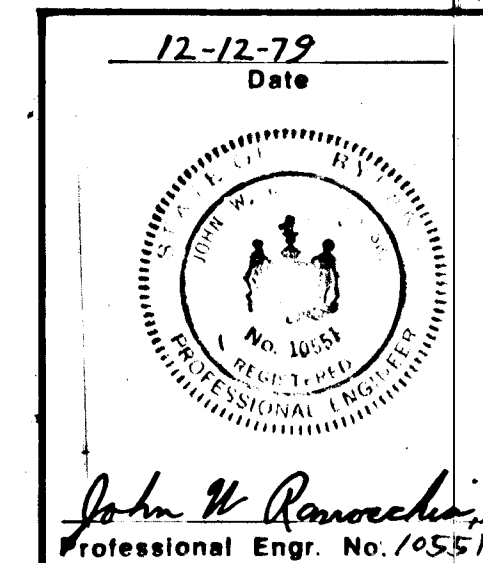
VILLAGE OF HICKORY RIDGE  
Section 2, Area 1  
5th Election District of Howard County, Maryland  
OWNERS AND DEVELOPERS  
THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
THE ROUSE COMPANY  
Columbia, Maryland 21044

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

AREA  
TAX MAP 36, PARCEL 267 AND 84

TITLE  
STORM DRAIN PROFILES

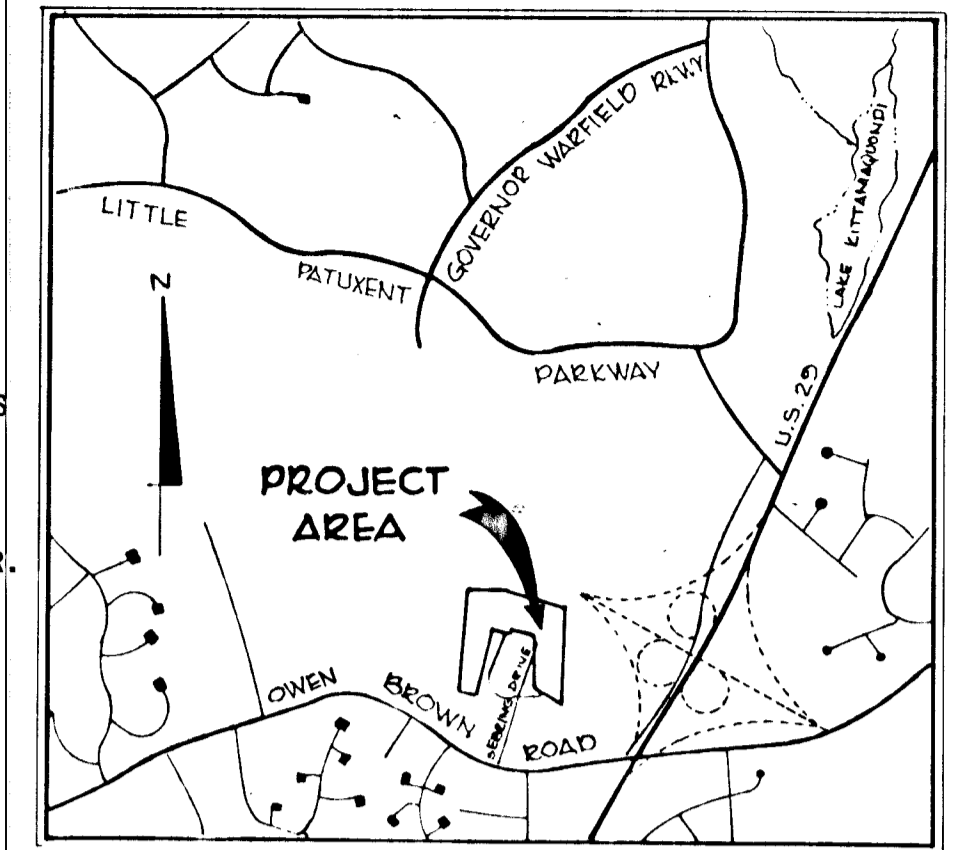
Des By T.P.	Scale AS SHOWN	Proj No 2676
Drn By T.D.	Date 6/17/79	Drawing No. 6 OF 8
Chk By G.R.K.	Approved	



1-80-35  
AS-BUILT  
FEB 23, 1983

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 (922-2070).
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.



VICINITY MAP  
 Scale: 1" = 2000'

SEQUENCE OF CONSTRUCTION

1. OBTAIN A GRADING PERMIT.
2. ENTRANCE FOR CONSTRUCTION FROM PARCEL 'A' (WEST LIMIT OF SUBMISSION)
3. INSTALL INTERCEPTOR SWALE ACROSS COVINGTON ROAD.
4. INSTALL STONE OUTLET SEDIMENT TRAPS AND SEED PER TEMPORARY SEEDING NOTES.
5. INSTALL PERIMETER DIKES AND SEED PER TEMPORARY SEEDING NOTES.
6. ROUGH GRADE SITE WITHIN LIMITS OF CONSTRUCTION.
7. INSTALL STORM DRAINS AND REPAIR SEDIMENT CONTROL DEVICES.
8. BLOCK INLETS
9. ALL DISTURBED AREAS SHALL BE STABILIZED AS PER TEMPORARY SEEDING NOTES.
10. AFTER CONSTRUCTION IS COMPLETED AND UPON APPROVAL BY THE SOIL CONSERVATION DISTRICT, ALL SEDIMENT CONTROL FACILITIES SHALL BE REMOVED AND STABILIZED AS PER PERMANENT SEEDING NOTES.

LEGEND

- D.D.: DIVERSION DIKE
- P.D.: PERIMETER DIKE
- S.O.S.: STONE OUTLET STRUCTURE

SITE ANALYSIS

SITE AREA	18.08 Ac.
DISTURBED AREA	4.10 Ac.
IMPERVIOUS AREA	1.20 Ac.
AREA TO BE PERMANENTLY REVEGETATED	2.9 Ac.

AS-BUILT SURVEY DATA BY  
 WALTER PARK MD. L.S. 6539  
 SEALED & DATED 10/3/80.

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

APPROVED: *William V. Rowe* 12-12-79  
 Howard S.C.D. Date

	SOS 1	SOS 2	SOS 3	SOS 4
DRAINAGE AREA	0.2 Ac.	0.3 Ac.	0.6 Ac.	0.55 Ac.
DISTURBED	0.2 Ac.	0.3 Ac.	0.4 Ac.	0.50 Ac.
VOL. REQUIRED	360 C.F.	540 C.F.	1080 C.F.	990 C.F.
VOL. PROVIDED	361 C.F.	540 C.F.	1080 C.F.	990 C.F.
BASIN SIZE	21x21x1	14x21x2	14x50x2	14x50x2
BOTTOM ELEVATION	361.5	342.5	350.0	352.5
CLEAN OUT ELEV.	362.0	343.5	351.0	354.5

DEPARTMENT OF PUBLIC WORKS  
*William E. Ray* 2-11-80  
 Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING  
*William E. Ray* 12-21-79  
 Chief, Division of Land Development Date

Date	No.	Revision Description

VILLAGE OF HICKORY RIDGE  
 Section 2, Area 1  
 5th Election District of Howard County, Maryland

OWNER AND DEVELOPER  
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
 THE ROUSE COMPANY  
 Columbia, Maryland 21044

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

ARE A  
 TAX MAP 36, PARCEL 267 AND 84

TITLE  
 SEDIMENT CONTROL PLAN

Des By T.D.	Scale AS SHOWN	Proj No 2678
Des By T.D.	Date 6/7/79	Drawing No 7 OF 8
Chk By G.R.	Approved	

75-80-350 AS-BUILT  
 FEB. 23, 1983

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."

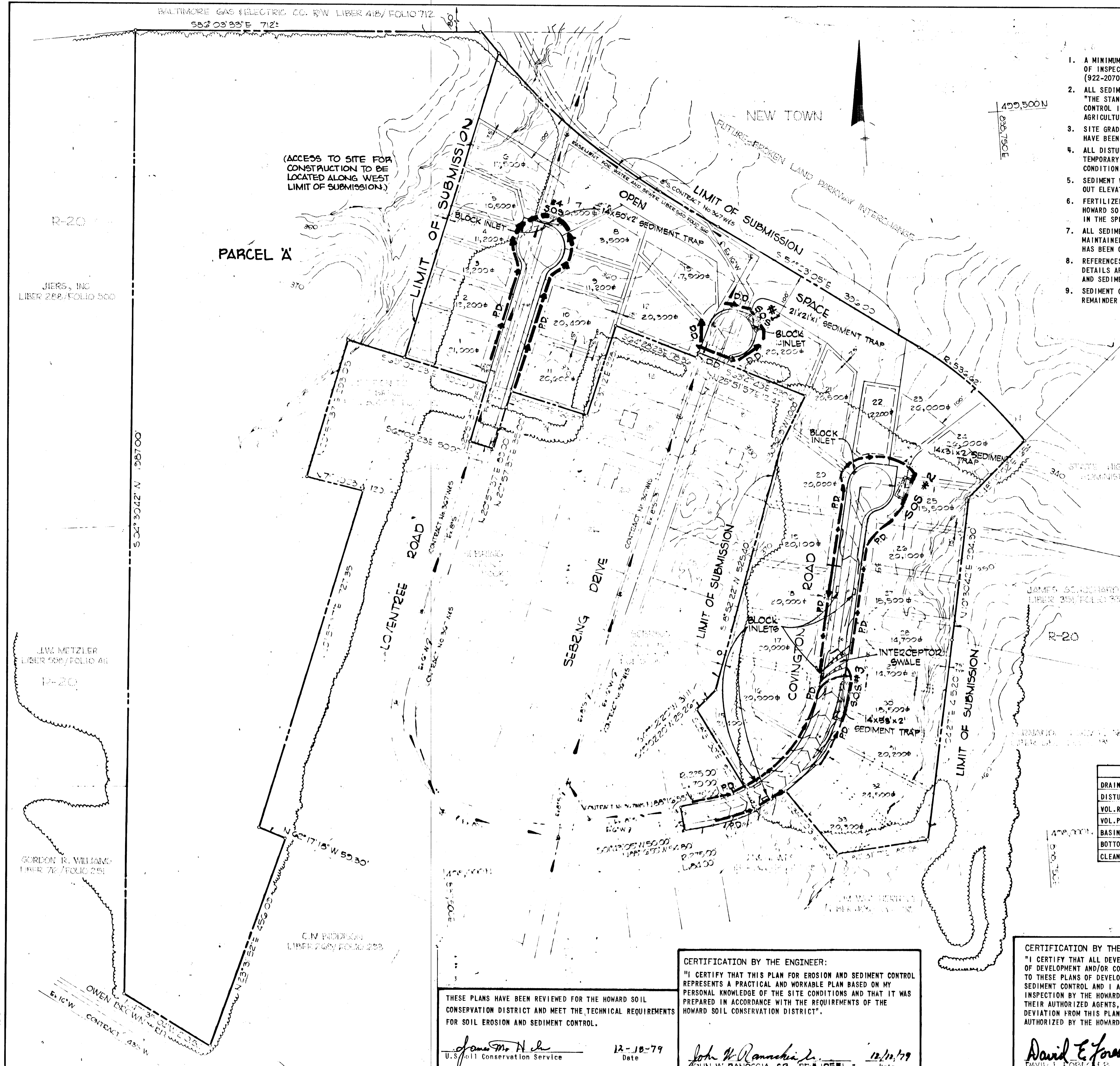
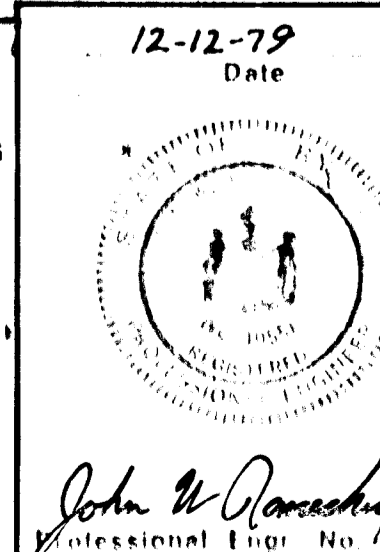
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*James M. A. Jr.* 12-18-79  
 U.S. Soil Conservation Service Date

*John W. Rancich, Jr.* 12-12-79  
 JOHN W. RANICICH, P.E. REG. 10551 Date

CERTIFICATION BY THE DEVELOPER:  
 "I CERTIFY THAT ALL DEVELOPMENT ACCORDING TO THESE PLANS OF 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 MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

*David E. Foster* 12-12-79  
 DAVID E. FOSTER Date

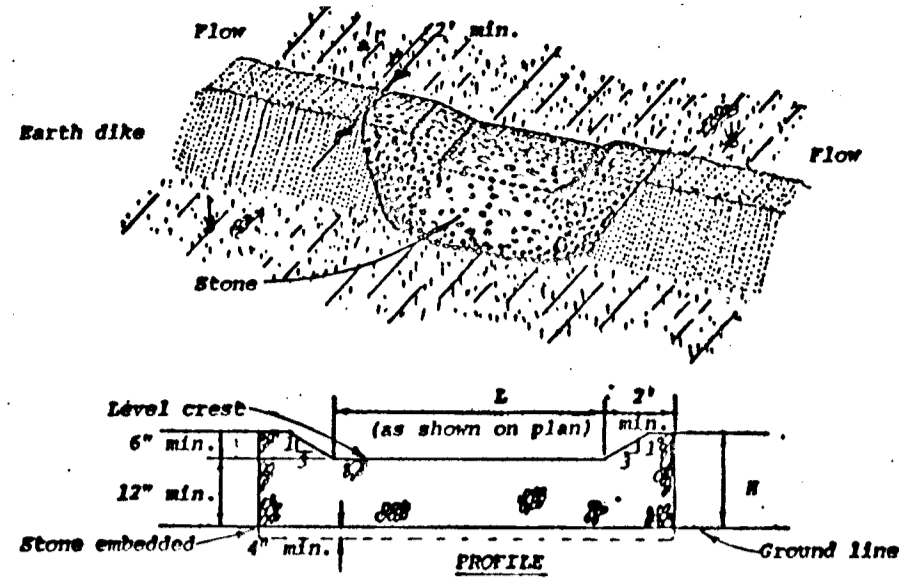


BRUNING 44-132 28586  
 OWEN CONTRACT 450' W

J.W. METZLER  
 LIBER 544/ FOLIO 411  
 14-20

GORDON R. WILLIAMS  
 LIBER 76/ FOLIO 291

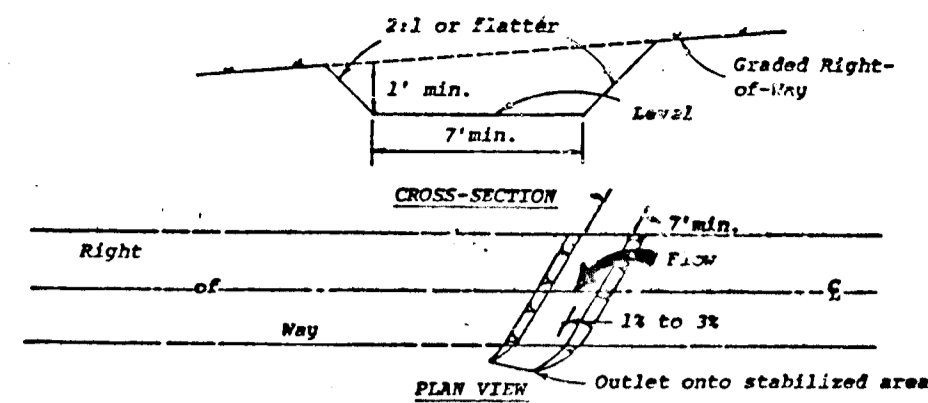
CIV. ENGINEER  
 LIBER 269/ FOLIO 222



**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 M3 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 stones, washout, construction traffic damage, etc.

**STONE OUTLET STRUCTURE**  
NO SCALE

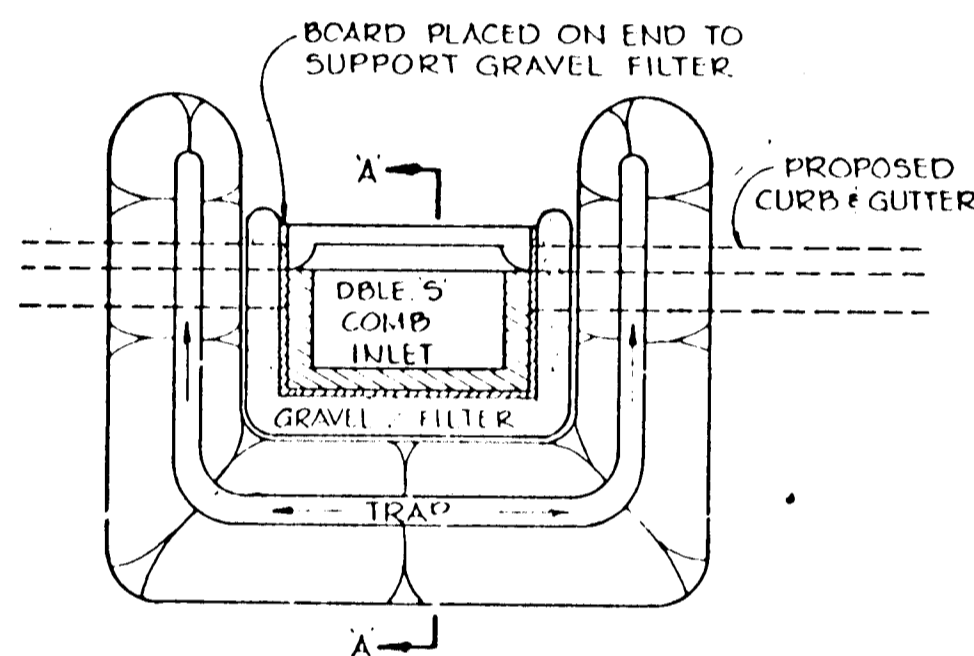


**Construction Specifications**

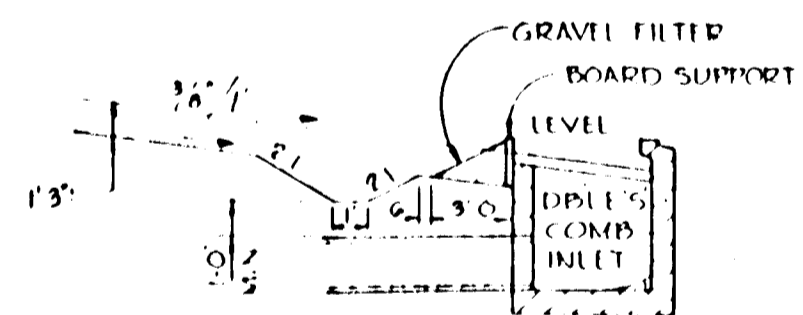
1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
2. The swale shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the complete swale.
4. 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.
5. Interceptor swales shall have a minimum grade of one percent and the bottom shall be level.
6. An interceptor swale shall have an outlet that functions with a minimum of erosion.
7. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin.
8. The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
9. Stabilization shall be: (1) in accordance with the Standard and Specifications for Graded Waterway; or (2) by lining the flow area with stone that meets MSHA size No. 2 or AASHTO M3 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.
10. Periodic inspection and required maintenance shall be provided.

Standard Symbol

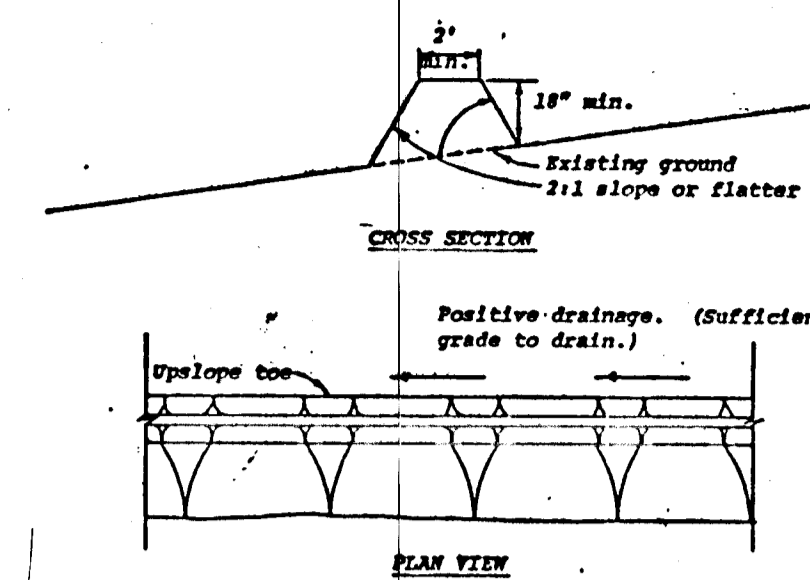
**INTERCEPTOR SWALE**  
NO SCALE



**PLAN**



**SECTION "A-A"**  
**TYPICAL INLET BLOCKING**  
No Scale



**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 Graded Waterway. The minimum area to be stabilized shall be the channel flow area.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol

**PERIMETER DIKE**  
NO SCALE

**TEMPORARY SEEDING**

- AREA TO BE SEEDDED SHALL BE RECENTLY LOOSENEED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.
1. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
  2. WHERE SOIL IS KNOWN TO BE HIGHLY ACIDIC, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
  3. 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.
  4. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 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 POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
1. 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).
  2. 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.
  3. SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN 20 LBS. PER ACRE.
  4. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

AS-BUILT SURVEY DATA BY  
WALTER PARK, MD L.S. 5534  
SEALED & DATED 10/3/80.

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*  
U.S. Soil Conservation Service  
12-18-79  
Date

**CERTIFICATION BY THE ENGINEER:**

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

*John W. Ranocchia, Jr.*  
JOHN W. RANOCCHIA, JR. PE # 10331  
12-12-79  
Date

**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."

*David E. Forester*  
DAVID E. FORESTER  
12-12-79  
Date

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

APPROVED: *William T. Rame*  
HOWARD S.C.D.  
12-18-79  
Date

DEPARTMENT OF PUBLIC WORKS		<i>William E. Rame</i> 2-11-80 CHIEF, BUREAU OF ENGINEERING DATE	
DEPARTMENT OF PLANNING AND ZONING		<i>John W. Ranocchia, Jr.</i> 12-21-79 CHIEF, DIVISION OF LAND DEVELOPMENT DATE	
DATE	NO.	REVISION DESCRIPTION	

12-12-79  
Date

*John W. Ranocchia, Jr.*  
Professional Engr. No.

Date	No.	Revision Description
VILLAGE OF HICKORY RIDGE Section 2, Area 1 5th Election District of Howard County, Maryland		
OWNER AND DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY Columbia, Maryland 21044		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
AREA TAX MAP 36, PARCEL 267 AND 84		
TITLE SEDIMENT CONTROL DETAILS		
Des By	T.D.	Scale AS SHOWN
Drn By	T.D.	Date 6/7/79
Proj No	2678	Drawing No.
Chk By	G.R.K.	Approved
		B OF B

AS-BUILT FEB 23, 1983

BRUNING 44-132 28596