

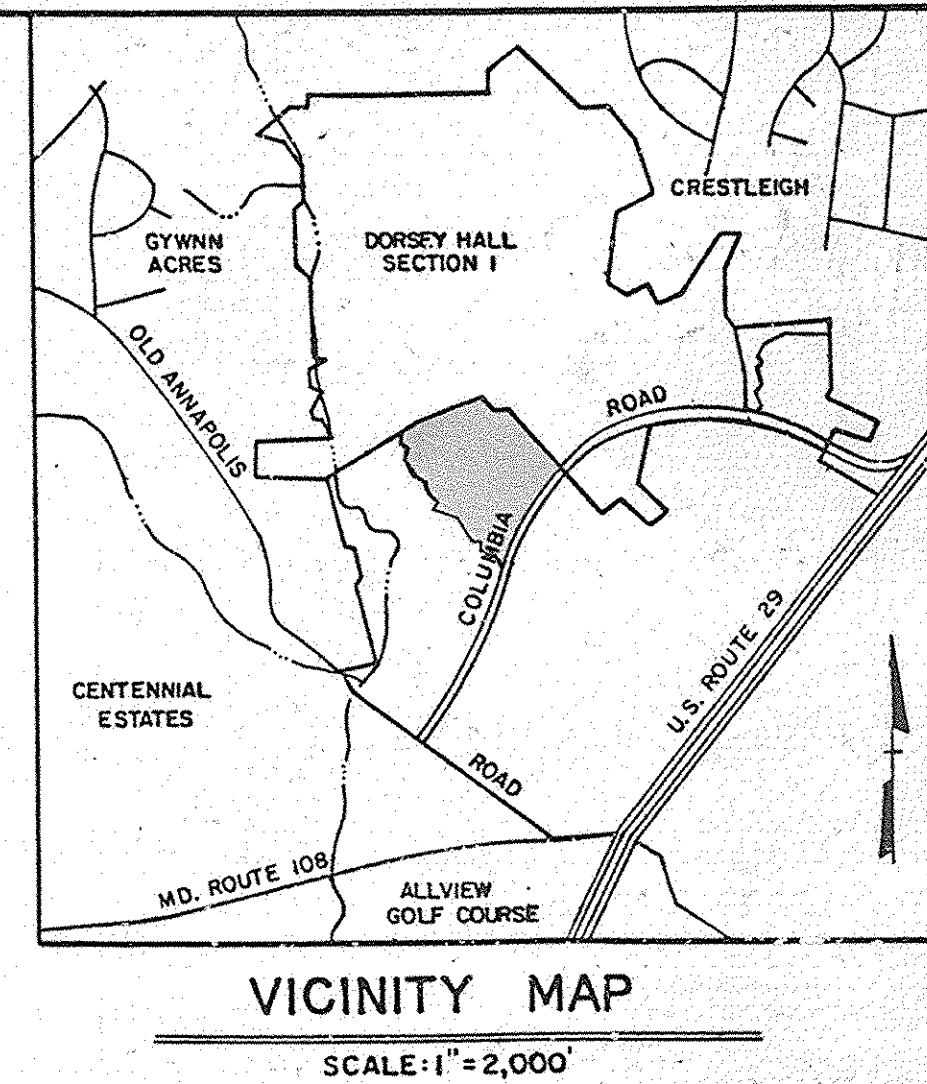
NO.	INDEX OF SHEETS
1	TITLE SHEET
2	DETAIL SHEET
3	ROAD PLAN AND PROFILE: DEERFIELD DRIVE STA. 0+00 TO 12+50
4	ROAD PLAN AND PROFILE: DEERFIELD DRIVE STA. 12+50 TO CUL-DE-SAC
5	ROAD PLAN AND PROFILE: SOMERSET LANE & MANORHILL LANE
6	ROAD PLAN AND PROFILE: BRENTWOOD LANE
7	ROAD PLAN AND PROFILE: SMOKEY WREATH WAY
8	ROAD PLAN AND PROFILE: OAKVIEW COURT & PRIVATE ROAD LOT 98
9	STORM DRAIN PROFILES
10	STORM DRAIN PROFILES
11	DRAINAGE AREA MAP
12	GRADING AND SEDIMENT CONTROL PLAN
13	GRADING AND SEDIMENT CONTROL PLAN
14	SEDIMENT CONTROL DETAILS

# DORSEY HALL

## SECTION 2-AREA 2 PARCEL B

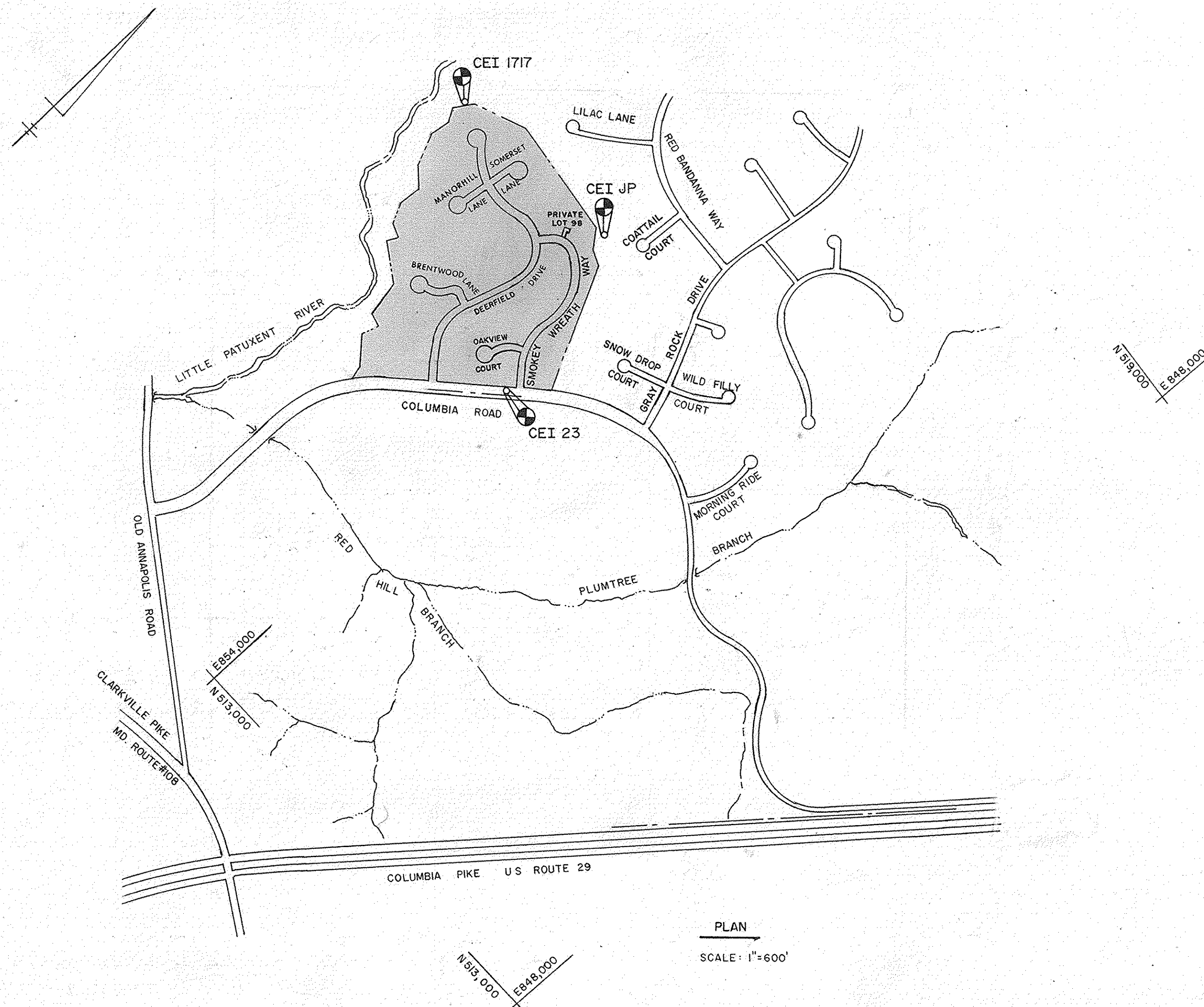
### 2ND. ELECTION DISTRICT

# HOWARD COUNTY, MARYLAND



#### GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- ALL UTILITIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.
- ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHTS OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION.
- TEMPORARY COMPACTED 18" HIGH EARTH FILL DIVERSION DIKES SHALL BE CONSTRUCTED ABOVE THE LIPS OF FILL SLOPES ON THE R.O.W. CONCURRENTLY WITH THE INITIAL GRADING AND DIRECTED TO UNDISTURBED SOD AREAS AT THE END OF EACH DAY.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE NO. 992-2436.
- ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3500 p.s.i.
- ALL SWALES AND SLOPES SHALL BE PERMANENTLY SEEDED. SEE THE SEED SPECIFICATIONS ON SHEET
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 OR LATEST REVISION.
- STABLENKA (FILTER CLOTH T-100) OR EQUAL SHALL BE PLACED UNDER ALL STONE RIPRAP (FULL WIDTH AND LENGTH OF STONE).
- STONE FOR RIPRAP SHALL BE AS SPECIFIED ON THE DRAWINGS. ALL RIPRAP SHALL BE UNPAVED.
- CONTRACTOR TO NOTIFY "MISS UTILITY" PHONE (1) 539-0100 AT LEAST THREE (3) DAYS BEFORE STARTING WORK SHOWN ON THIS/THESE DRAWING(S).
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARDS. DESIGN SPEED FOR ALL ROADS AS SHOWN ON DRAWING No. 2 of 14.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- ALL COORDINATES BASED ON MARYLAND STATE GRID SYSTEM.
- 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.
- CONTRACTOR TO RESTORE ALL EXISTING PAVING, SIDEWALKS OR LAWNS AFFECTED BY THE CONSTRUCTION SHOWN HEREON TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION.
- REFER TO APPROVED GP 86-70 FOR SEDIMENT CONTROL DEVICES THAT ARE TO BE MAINTAINED DURING CONSTRUCTION OF THIS CONTRACT. SEE DRAWINGS 12 THRU 14 FOR ANY REVISIONS REQUIRED BY THIS WORK.
- ALL STORM DRAIN BEDDING TO BE CLASS 'C' EXCEPT WHERE OTHERWISE NOTED.
- TOP OF INLET ELEVATIONS SHOWN ARE GIVEN AT THE TOP OF CURB AT THE CENTER OF THE INLET.
- STREET TREES (220 TOTAL)  
THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON THIS PLAN ARE TENTATIVE AND ARE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AS APPROVED BY THE OFFICE OF PLANNING AND ZONING.

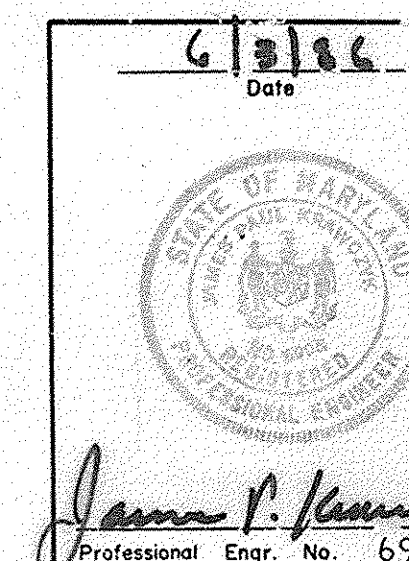


#### Bench Marks

CEI BENCH MARK NO. 'JP'	ELEV. 391.70
R.R. SPIKE IN ROOT OF 24" MAPLE TREE NEAR JOGGING PATH IN OPEN SPACE AT THE END OF COAT TAIL COURT @ REAR OF LOT B-41.	
CEI BENCH MARK NO. 1717	ELEV. 334.90
TOP OF IRON PIPE, PROPERTY CORNER @ REAR OF LOT B-26.	
CEI BENCH MARK NO. 23	ELEV. 380.89
'X' CUT ON EAST FLANGE BOLT OF FIRE HYDRANT @ STA. 298+50 ON RIGHT SIDE COLUMBIA RD.	

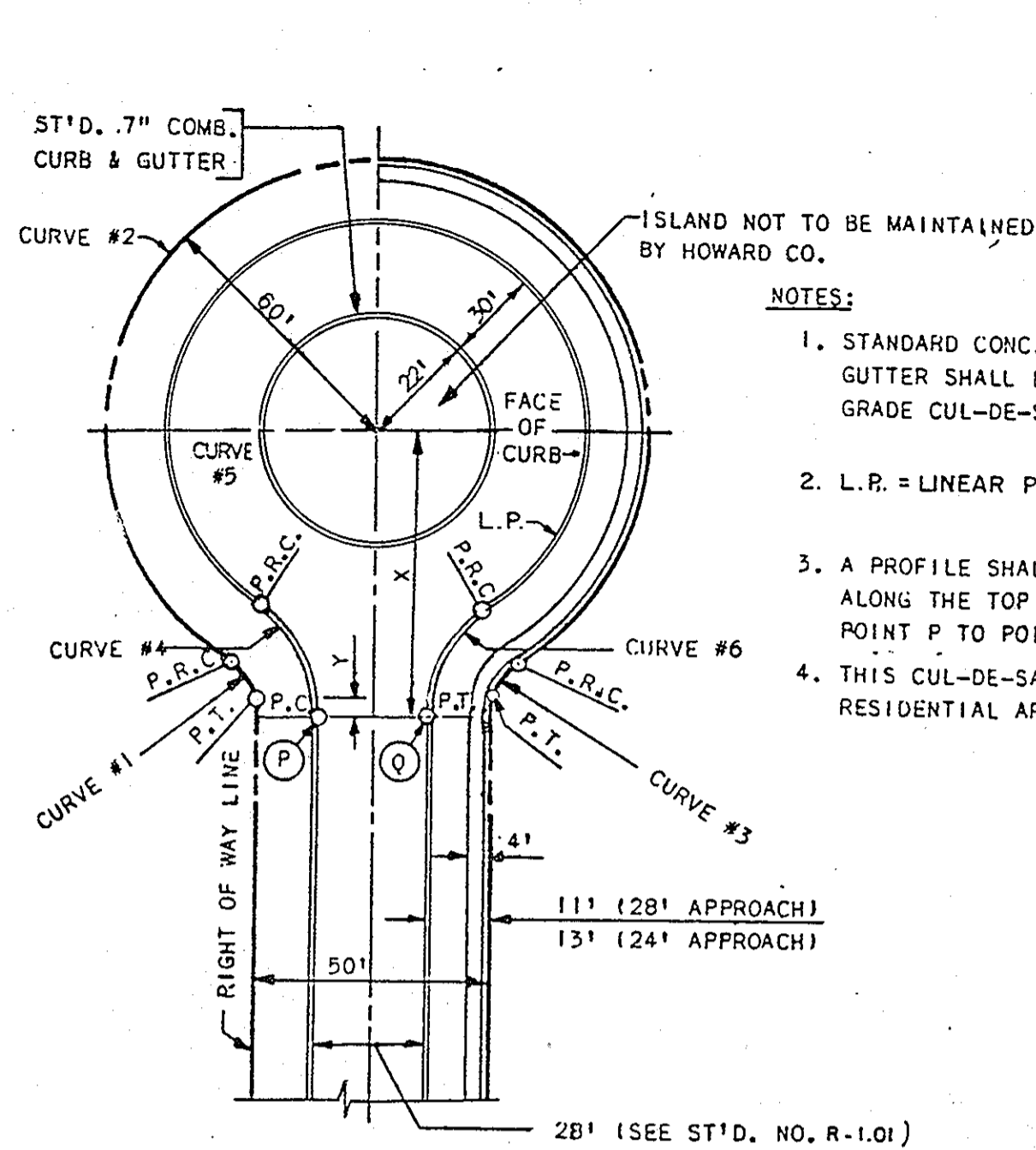
FOR LOCATION OF BENCH MARKS SEE SHEETS 12 AND 13.

DEPARTMENT OF PUBLIC WORKS	
<i>Section 2 Plan</i> 3-1-86	
CHIEF, BUREAU OF ENGINEERING	
DEPARTMENT OF PLANNING AND ZONING	
<i>John M. Murchison</i> 7-29-86	
CHIEF, DIV. OF LAND DEVEL. AND ZONING ADMIN.	
Date	No
OWNER AND DEVELOPER	
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION	
C/O	
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION	
THE ROUSE COMPANY 10275 Little Patuxent Parkway Columbia, Maryland 21044	
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS & PLANNERS TOWSON, MARYLAND 21204	
AREA	DORSEY HALL SECTION 2-AREA 2 TAX MAP 30 PARCEL B 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.
TITLE	TITLE SHEET
Des By	J. R. H. Scale AS SHOWN Proj No 85-0111
Drn By	H. W. Date 5-23-86 Drawing No. 1 OF 14
Chk By	J. P. K. Approved



F-86-217



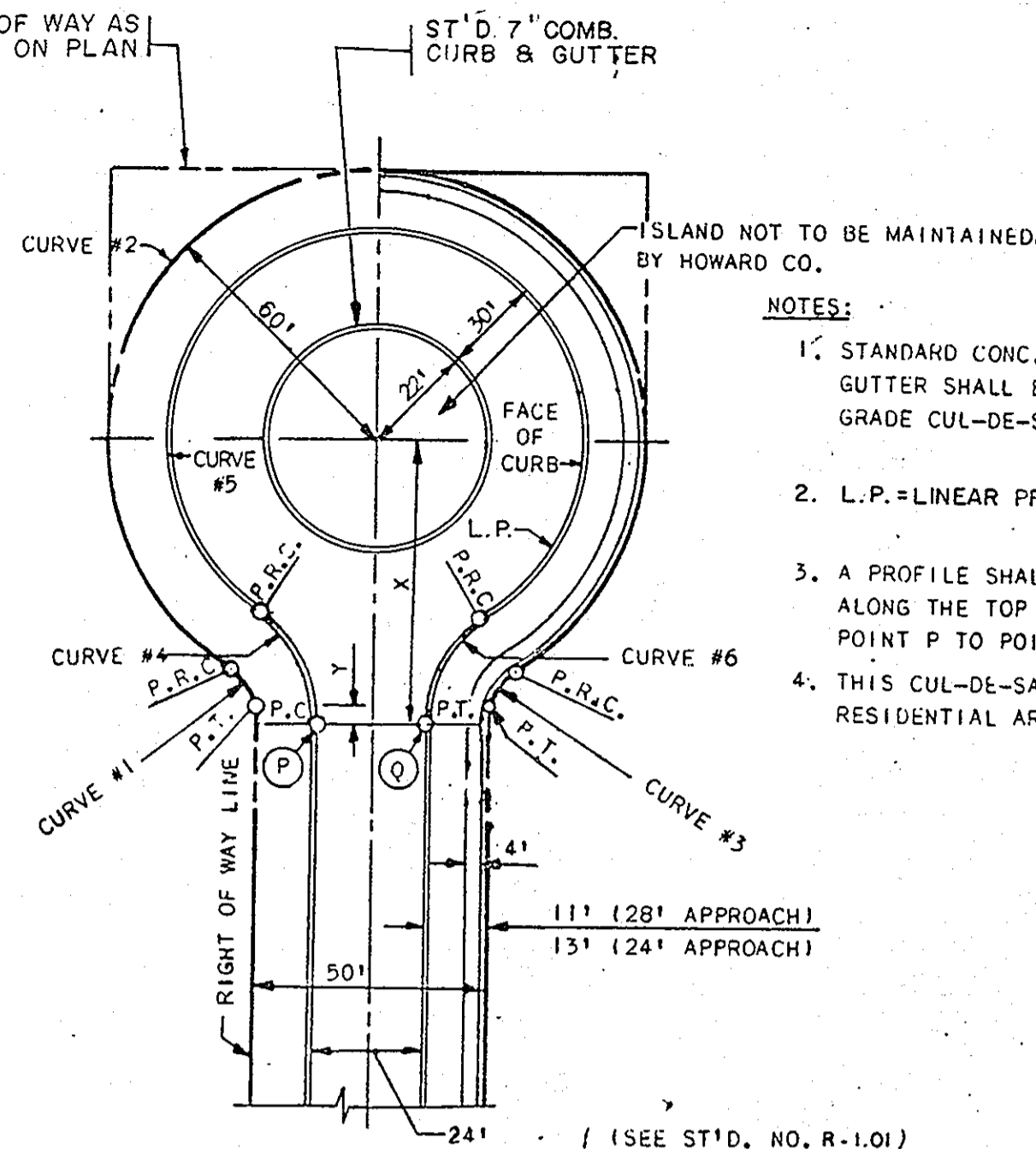


NOTES:

1. STANDARD CONC. COMB. CURB & GUTTER SHALL BE USED ON DOWN GRADE CUL-DE-SAC.
2. L.P. = LINEAR PROFILE OF CURB.
3. A PROFILE SHALL BE PROVIDED ALONG THE TOP OF CURB FROM POINT P TO POINT Q.
4. THIS CUL-DE-SAC TO BE USED IN RESIDENTIAL AREAS ONLY.

CURVE DATA				
CURVE NO.				
	1	2	4	5
28' APPROACH: X=74.48'; Y=5.75'; L.P.=536.97'				
Δ	45° 58' 05"	287° 56' 10"	54° 03' 31"	288° 07' 02"
R	25.00'	60.00'	40.00'	52.00'
L	23.55'	301.53'	37.74'	261.49'
T	12.73'	-	20.41'	-
LC	22.69'	-	36.36'	-

CUL-DE-SAC FOR 28' PAVEMENT WIDTH  
NO SCALE

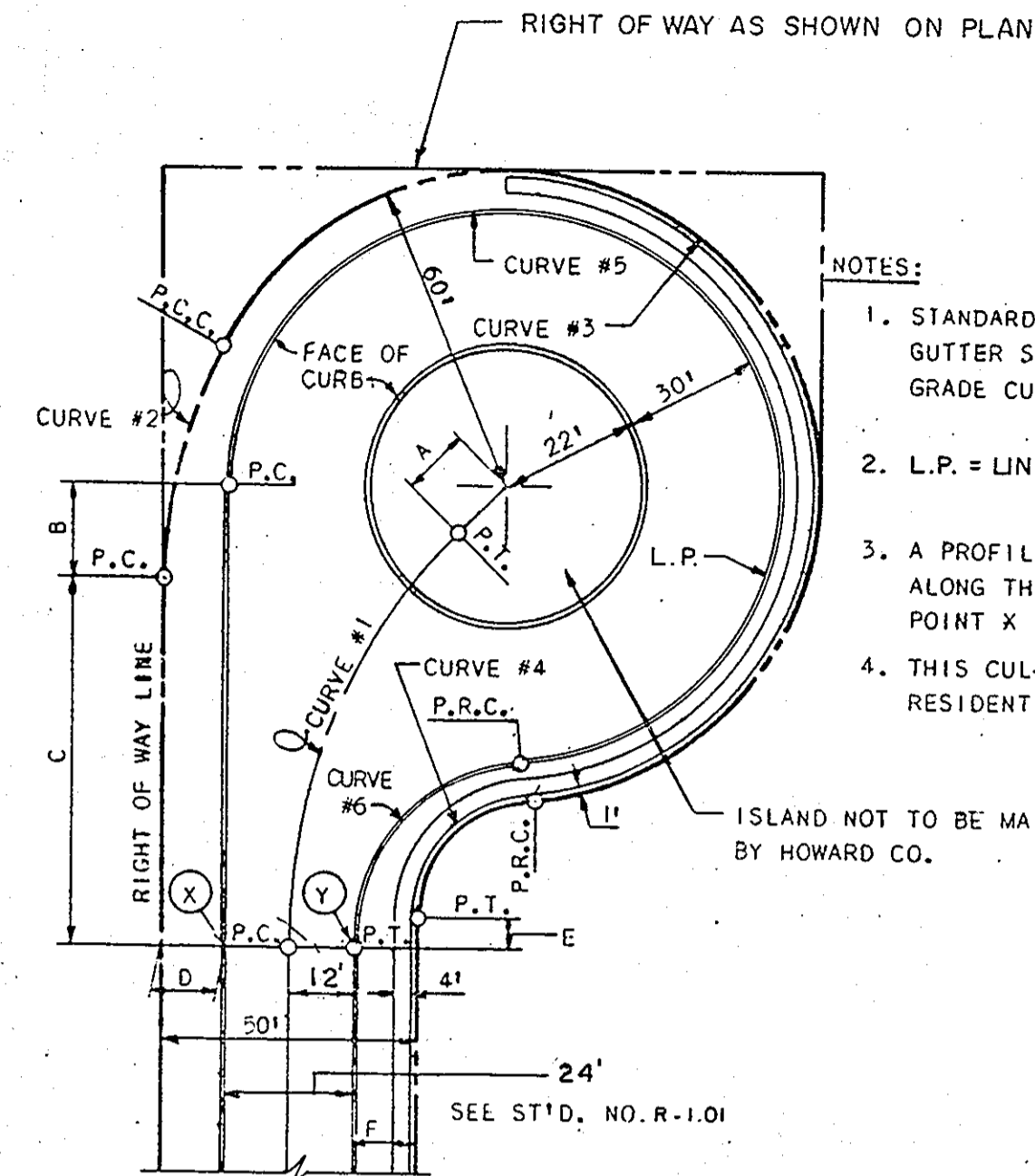


NOTES:

1. STANDARD CONC. COMB. CURB & GUTTER SHALL BE USED ON DOWN GRADE CUL-DE-SAC.
2. L.P. = LINEAR PROFILE OF CURB.
3. A PROFILE SHALL BE PROVIDED ALONG THE TOP OF CURB FROM POINT P TO POINT Q.
4. THIS CUL-DE-SAC TO BE USED IN RESIDENTIAL AREAS ONLY.

CURVE DATA				
CURVE NO.				
	1	2	4	5
24' APPROACH: X=75.89'; Y=7.16'; L.P.=341.85'				
Δ	53° 58' 00"	287° 56' 10"	55° 34' 57"	291° 09' 55"
R	25.00'	60.00'	40.00'	52.00'
L	23.55'	301.53'	38.80'	264.25'
T	12.73'	-	21.08'	-
LC	22.69'	-	37.30'	-

CUL-DE-SAC FOR 24' PAVEMENT WIDTH  
NO SCALE

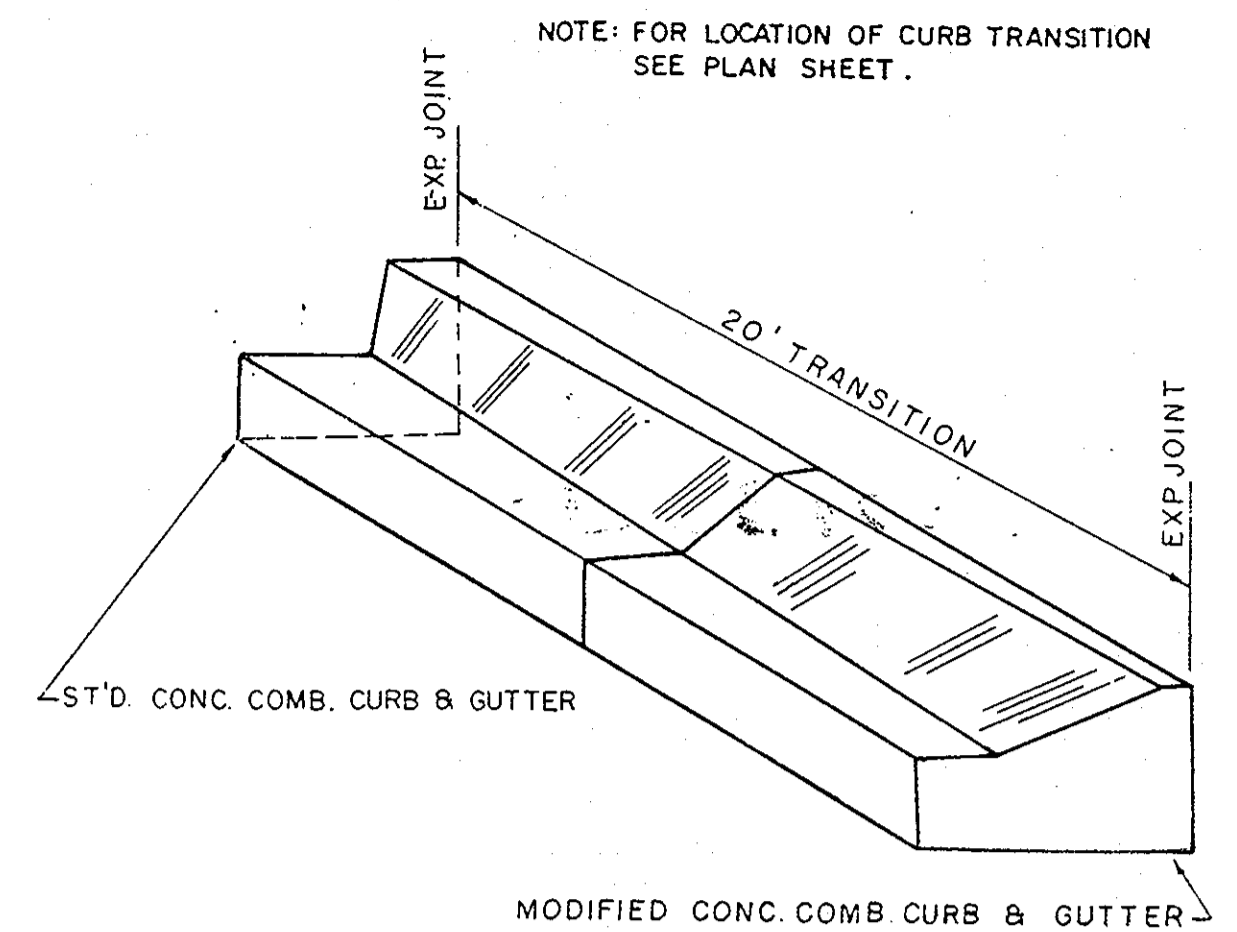


NOTES:

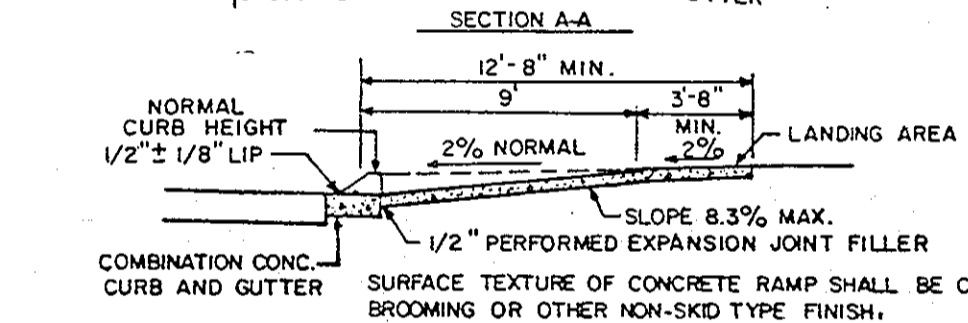
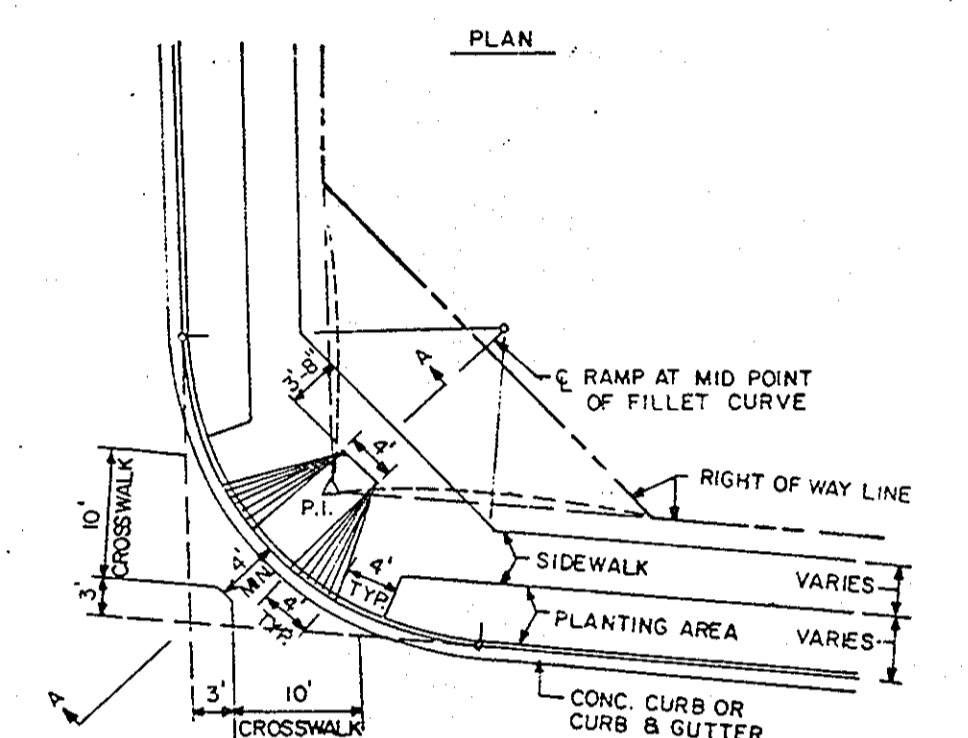
1. STANDARD CONC. COMB. CURB & GUTTER SHALL BE USED ON DOWN GRADE CUL-DE-SAC.
2. L.P. = LINEAR PROFILE OF CURB.
3. A PROFILE SHALL BE PROVIDED ALONG THE TOP OF CURB FROM POINT X TO POINT Y.
4. THIS CUL-DE-SAC TO BE USED IN RESIDENTIAL AREAS ONLY.

CURVE DATA						
CURVE NO.						
	1	2	4	5	6	
24' APPROACH L.P.=382.50'						
Δ	41° 15' 10"	26° 57' 18"	234° 17' 19"	83° 14' 37"	262° 30' 19"	82° 30' 19"
R	121.17'	100.00'	60.00'	25.00'	52.00'	40.00'
L	87.24'	50.54'	245.35'	36.32'	238.24'	57.60'
T	45.51'	25.82'	-	22.21'	-	35.08'
L.C.	85.37'	50.00'	-	33.21'	-	52.75'

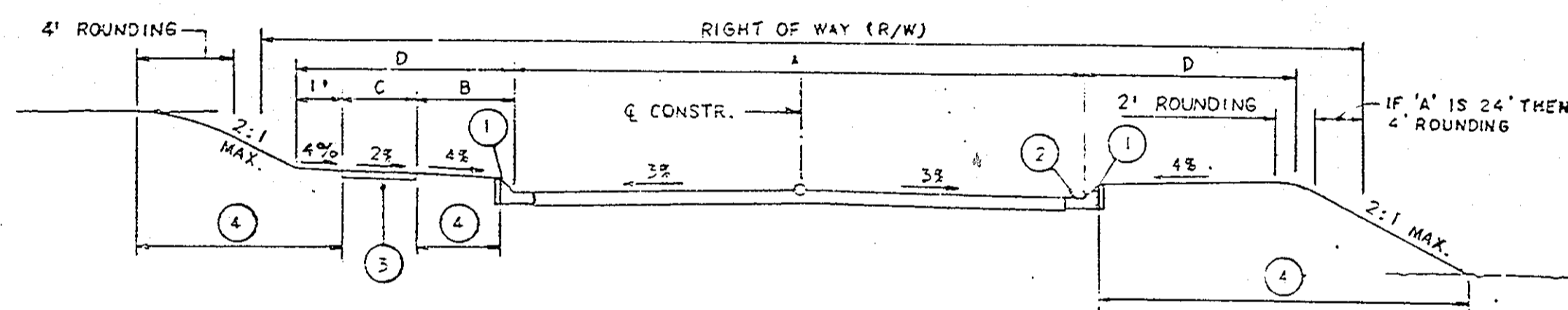
OFFSET CUL-DE-SAC FOR 24' PAVEMENT WIDTH  
NO SCALE



CONCRETE CURB & GUTTER TRANSITION  
NO SCALE



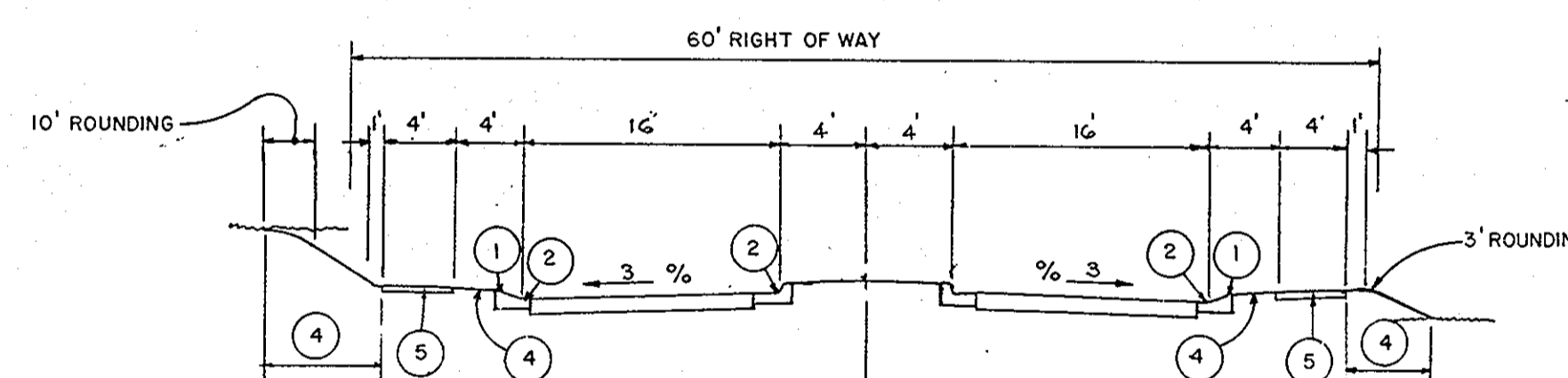
SIDEWALK RAMP  
NO SCALE



ROAD NAME & STATION	A	B	C	D	R/W	PAVING SECTION	DESIGN SPEED
DEERFIELD DRIVE LOCAL ROAD STA. 2436.25 TO STA. 17441.49	30'	4'	4'	9'	50'	P2	30 MPH
DEERFIELD DRIVE CUL-DE-SAC ROAD STA. 17451.89 TO STA. 19448.96	24'	4'	4'	9'	50'	P2	30 MPH
SPOKEY WREATH WAY LOCAL ROAD STA. 0+00 TO STA. 12+32.11	30'	4'	4'	9'	50'	P2	30 MPH
BRENTWOOD LAKE CUL-DE-SAC ROAD STA. 0+00 TO STA. 3+27.45	28'	4'	4'	9'	50'	P2	25 MPH
OAKVIEW COURT CUL-DE-SAC ROAD STA. 0+00 TO STA. 1+80.33	28'	4'	4'	9'	50'	P2	25 MPH
HARBORHILL LAKE CUL-DE-SAC ROAD STA. 0+00 TO STA. 1+75.52	24'	4'	4'	9'	50'	P2	25 MPH
SOMERSET LAKE CUL-DE-SAC ROAD STA. 0+00 TO STA. 1+81.41	24'	4'	4'	9'	50'	P2	25 MPH
LOT B-98 PRIVATE ROAD STA. 0+00 TO STA. 1+03.61	24'	-	-	-	-	-	-

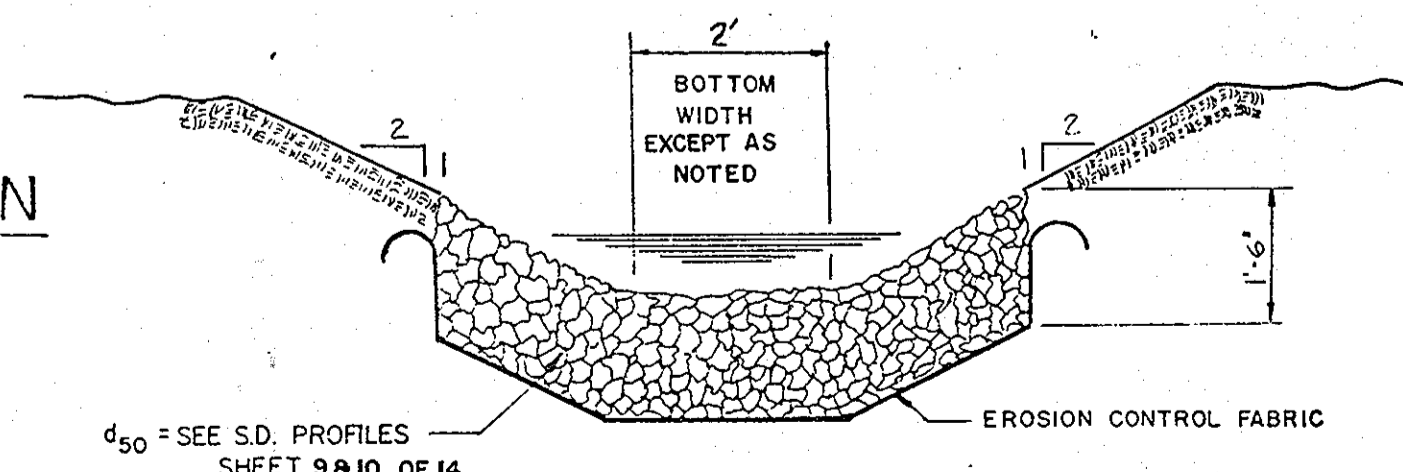
- 1 PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
- 2 TYPE OF CURB VARIES (MOD. COMB. CURB & GUTTER OR ST'D. COMB. CURB & GUTTER).
- 3 4" CONCRETE SIDEWALK
- 4 INDICATES 2" TOPSOIL, SEED AND MULCH.
- 5 DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE QUANTITY OF SWALE FLOW IS SMALL, AS APPROVED BY DPW.
- 6 DESIGN SPEED FOR ALL ROADS AS SHOWN.

TYPICAL ROADWAY SECTION  
NO SCALE

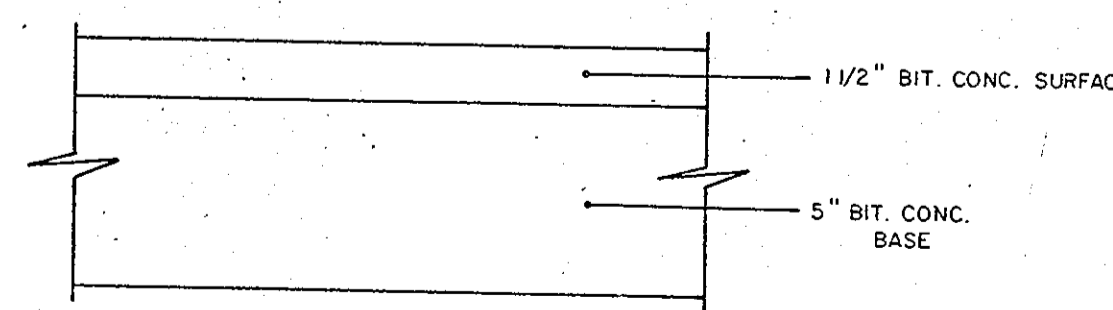


- 1 PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
- 2 ST'D. COMB. CURB & GUTTER.
- 3 4" CONCRETE SIDEWALK AS REQUIRED BY SUB-DIVISION REGULATIONS.
- 4 INDICATES 2" TOPSOIL, SEED AND MULCH.
- 5 DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE QUANTITY OF SWALE FLOW IS SMALL, AS APPROVED BY DPW.

TYPICAL SECTION THRU ENTRANCE  
DEERFIELD DRIVE

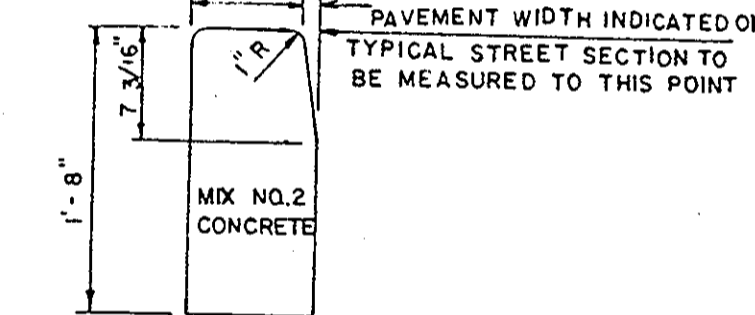


RIP-RAP CHANNEL  
NO SCALE

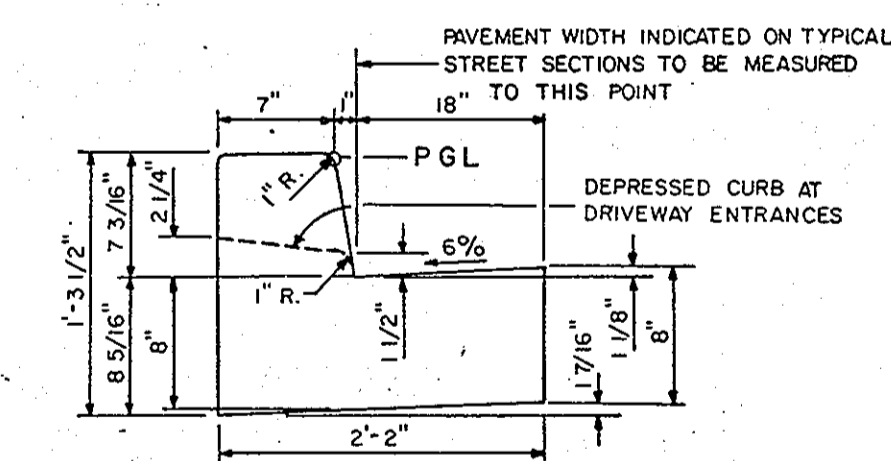


NOTE: A TACK COAT WILL BE APPLIED IN ACCORDANCE WITH SECTION 33.07-3 AS PROVIDED IN THE MD S.R.C. SPECIFICATIONS.

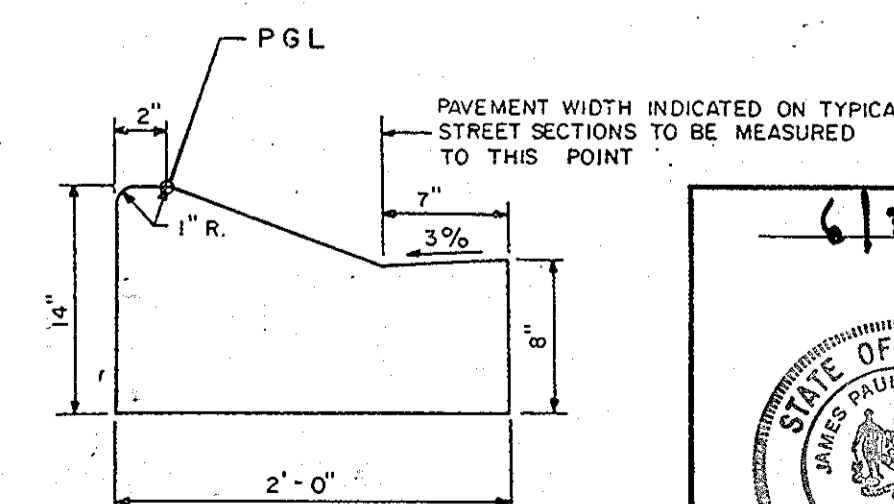
FULL DEPTH BIT CONC. P-2  
NO SCALE



STANDARD BARRIER CURB



STANDARD 7" COMBINATION CURB AND GUTTER  
NO SCALE



MODIFIED COMBINATION CURB AND GUTTER  
NO SCALE

6/3/86  
Date  
Professional Engr. No. 8906

DEPARTMENT OF PUBLIC WORKS  
CHIEF, BUREAU OF ENGINEERING  
DEPARTMENT OF PLANNING AND ZONING  
CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM.  
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
C/O THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE COMPANY  
10275 Little Patuxent Parkway  
Columbia, Maryland 21044  
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS • PLANNERS  
32 WEST ROAD  
TOWSON, MARYLAND 21204  
AREA DORSEY HALL  
SECTION 2-AREA 2 TAX MAP 30-PART OF PARCEL 12  
2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.  
TITLE  
DETAIL SHEET  
Des By RF Scale AS SHOWN Proj No 85-0111  
Drn By FM Date 5-23-86 Drawing No. 2 CF 14  
Chk By JPK Approved



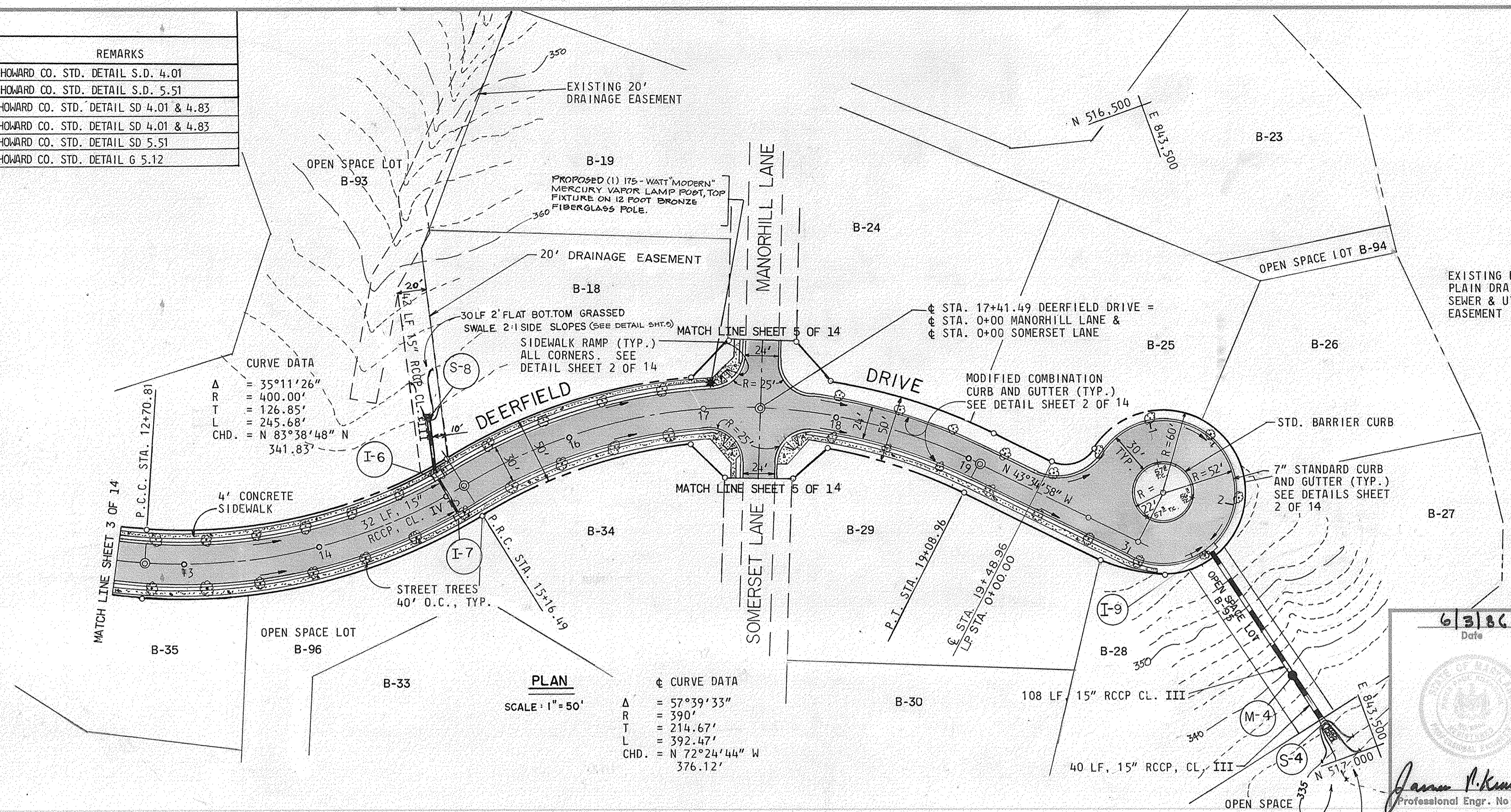




STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
I-9	L.P. 2+37	-	STD. A-5	354.0	HOWARD CO. STD. DETAIL S.D. 4.01
S-4	SEE PLAN	SEE PLAN	STD. END SECT.	SEE PROFILE	HOWARD CO. STD. DETAIL S.D. 5.51
I-6	15+02	15' LT.	A-5 W/DEFLECT.	369.92	HOWARD CO. STD. DETAIL SD 4.01 & 4.83
I-7	15+02	15' RT.	A-5 W/DEFLECT.	369.92	HOWARD CO. STD. DETAIL SD 4.01 & 4.83
I-8	SEE PLAN	SEE PLAN	STD. END SECT.	SEE PROFILE	HOWARD CO. STD. DETAIL SD 5.51
M-4	SEE PLAN	SEE PLAN	STD. MANHOLE	SEE PROFILE	HOWARD CO. STD. DETAIL G 5.12

PLAN  
 REVISIONS  
 DATE  
 BY  
 NO. OF W/MS CHECKED  
 NO. OF W/MS CHECKED

PROFILE  
 REVISIONS  
 DATE  
 BY  
 NO. OF W/MS CHECKED  
 NO. OF W/MS CHECKED



**PLAN**  
 SCALE: 1" = 50'

Δ = 35°11'26"  
 R = 400.00'  
 T = 126.85'  
 L = 245.68'  
 CHD. = N 83°38'48" N 341.83'

Δ = 57°39'33"  
 R = 390'  
 T = 214.67'  
 L = 392.47'  
 CHD. = N 72°24'44" W 376.12'

DEPARTMENT OF PUBLIC WORKS

6/3/86  
 Date

EXISTING FLOOR PLAIN DRAINAGE SEWER & UTILITY EASEMENT

DEPARTMENT OF PLANNING AND ZONING

John W. Murchman 7-29-86  
 CHIEF DIV. OF LAND DEVEL. AND ZONING ADM. DATE

Date	No.	Revision Description

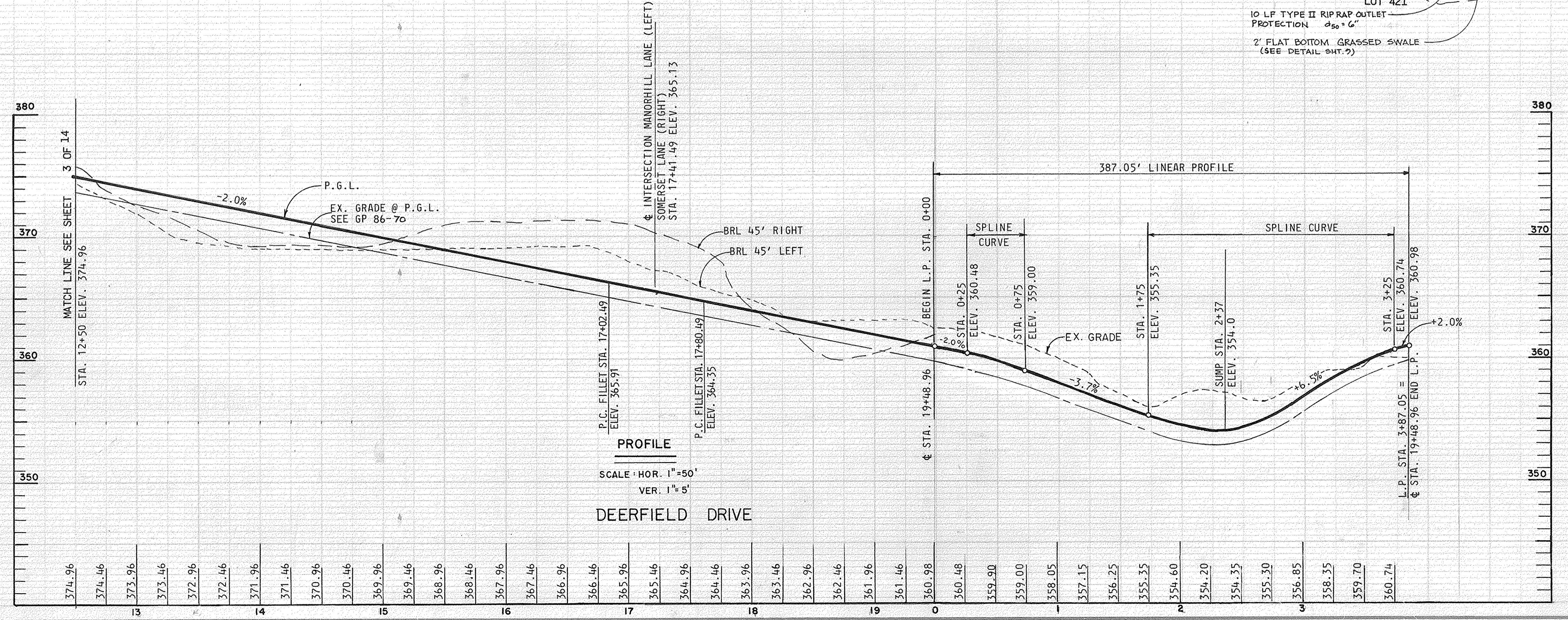
OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 C/O  
 THE HOWARD RESEARCH & DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 10275 Little Patuxent Parkway  
 Columbia, Maryland 21044

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

AREA  
 DORSEY HALL  
 SECTION 2 - AREA 2 TAX MAP 30 - PART OF PARCEL I2  
 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.

TITLE  
 ROAD PLAN AND PROFILE  
 DEERFIELD DRIVE

Des By	JRH	Scale	AS SHOWN	Proj No	85-0111
Drn By	FM	Date	5-23-86		
Chk By	JPK	Approved			PARCEL B



**PROFILE**  
 SCALE: HOR. 1" = 50'  
 VER. 1" = 5'

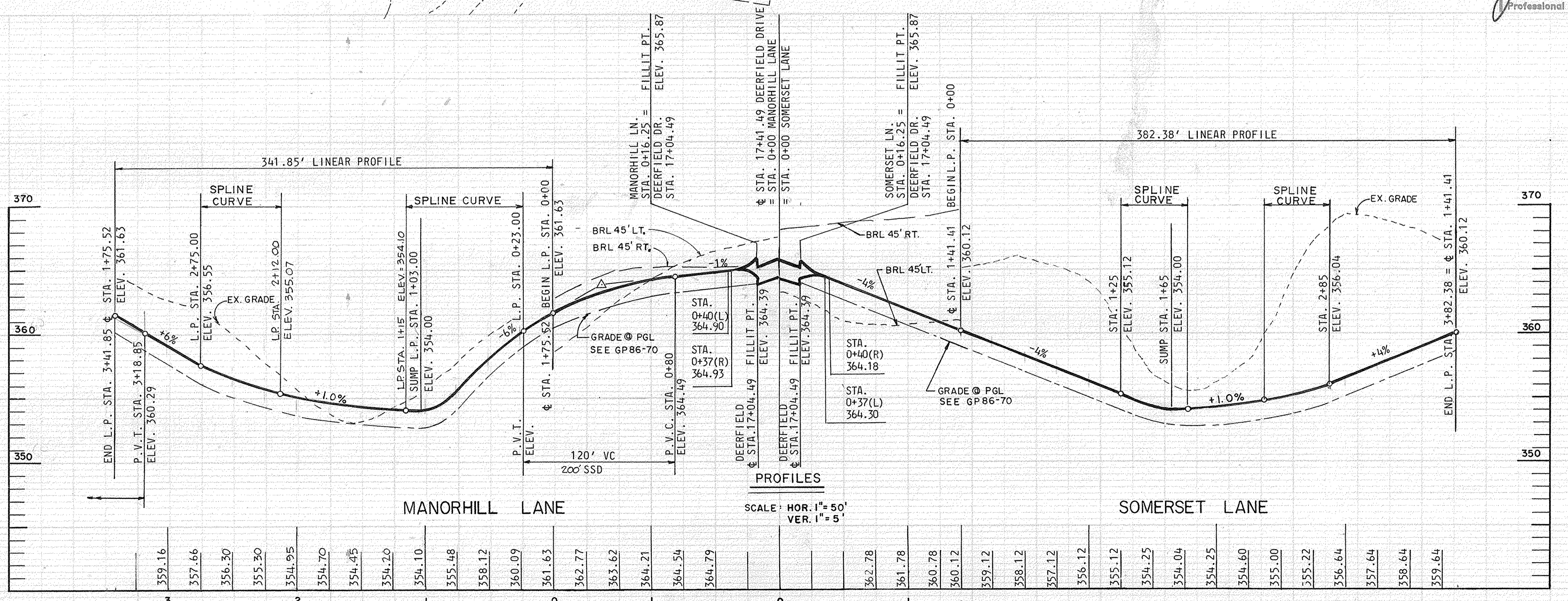
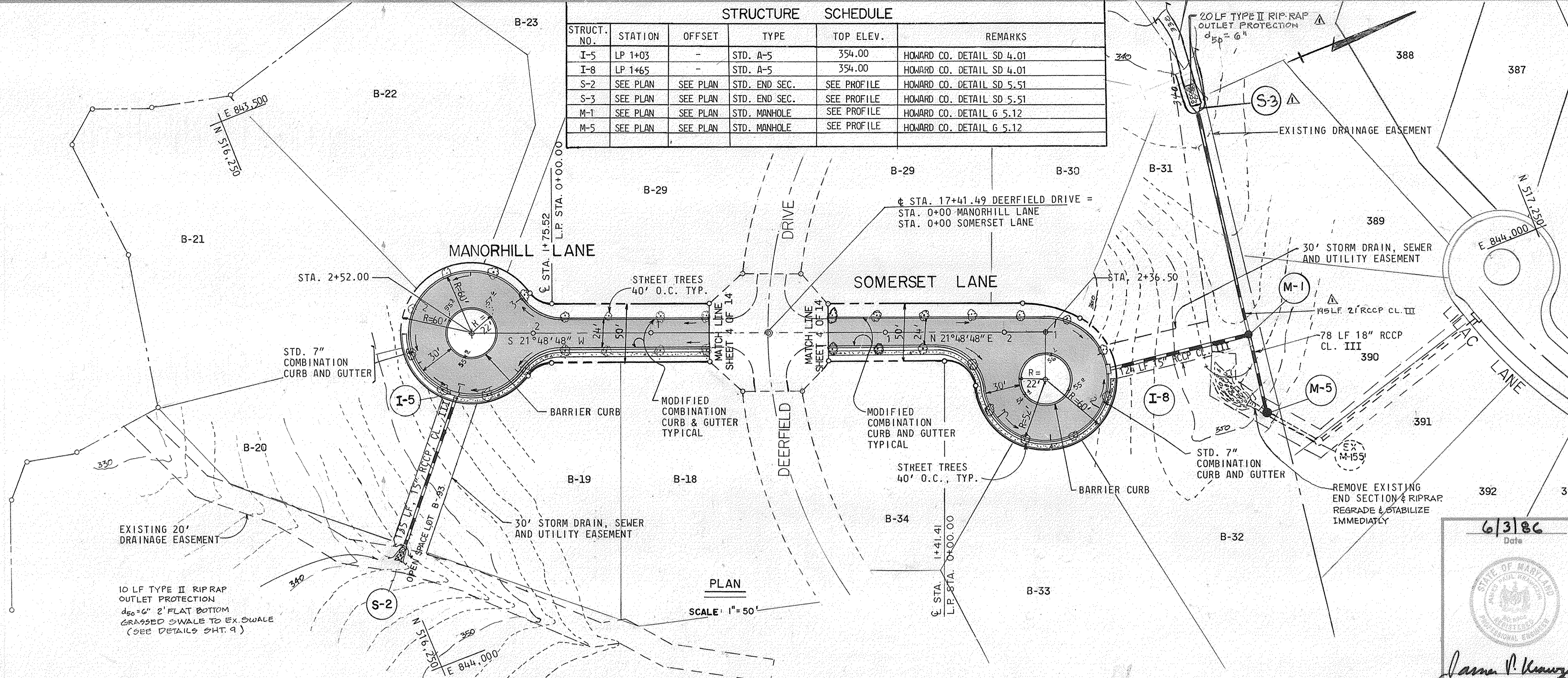
DEERFIELD DRIVE



PLAN	REVISIONS	DATE
NO.	BY	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROFILE	REVISIONS	DATE
NO.	BY	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STRUCTURE SCHEDULE						
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS	
I-5	LP 1+03	-	STD. A-5	354.00	HOWARD CO. DETAIL SD 4.01	
I-8	LP 1+65	-	STD. A-5	354.00	HOWARD CO. DETAIL SD 4.01	
S-2	SEE PLAN	SEE PLAN	STD. END SEC.	SEE PROFILE	HOWARD CO. DETAIL SD 5.51	
S-3	SEE PLAN	SEE PLAN	STD. END SEC.	SEE PROFILE	HOWARD CO. DETAIL SD 5.51	
M-1	SEE PLAN	SEE PLAN	STD. MANHOLE	SEE PROFILE	HOWARD CO. DETAIL G 5.12	
M-5	SEE PLAN	SEE PLAN	STD. MANHOLE	SEE PROFILE	HOWARD CO. DETAIL G 5.12	



DEPARTMENT OF PUBLIC WORKS  
*William S. Pacy* 8-1-86  
 CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING  
*John M. MacMahon* 7-29-86  
 CHIEF DIV. OF LAND DEVEL. AND ZONING ADM. DATE

8-10-87	1	RELOCATE S-3
Date	No	Revision Description

OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 C/O  
 THE HOWARD RESEARCH & DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 10275 Little Patuxent Parkway  
 Columbia, Maryland 21044

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

AREA: DORSEY HALL  
 SECTION 2-AREA 2 TAX MAP 30 - PART OF PARCEL 12  
 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.

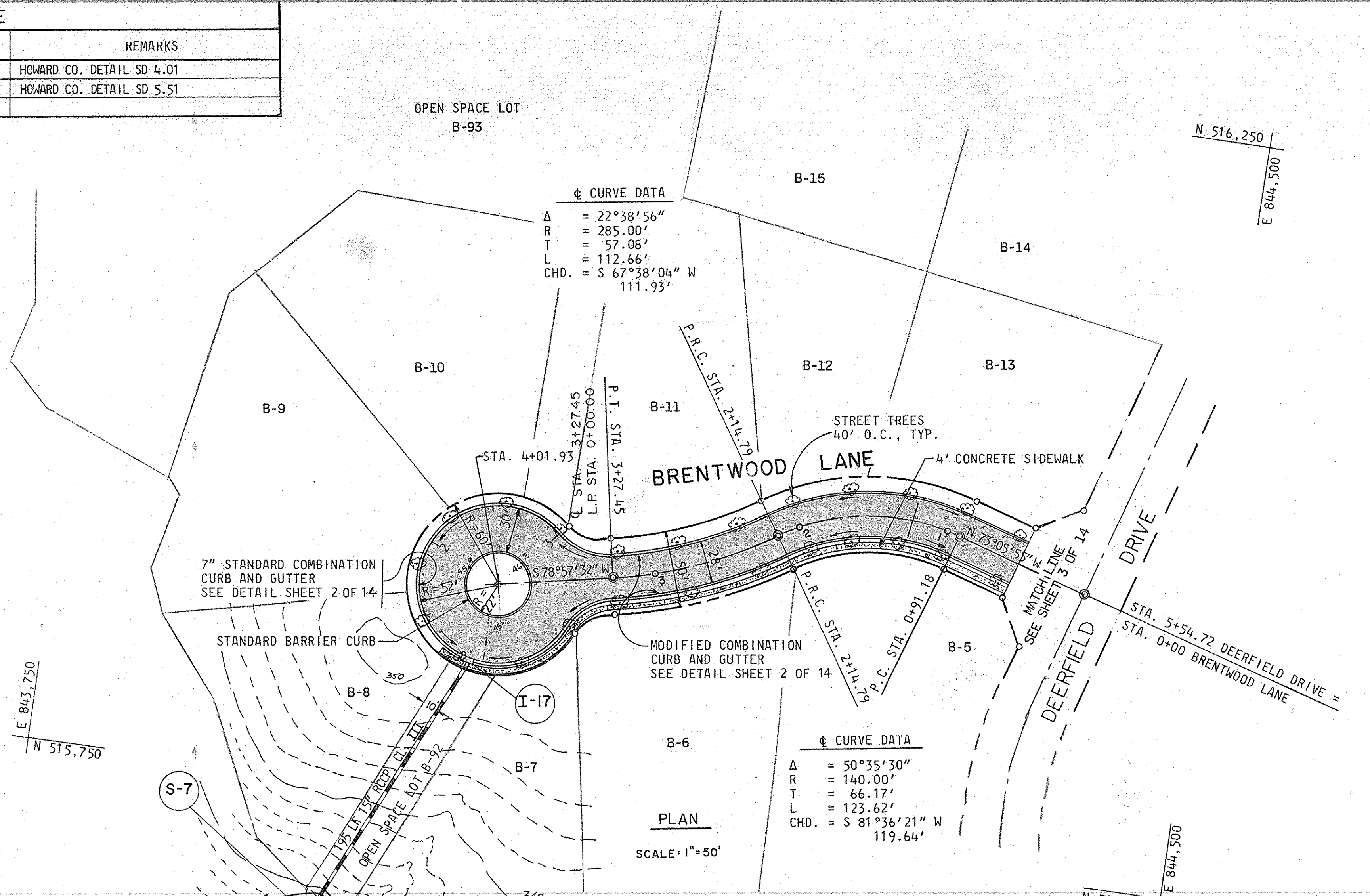
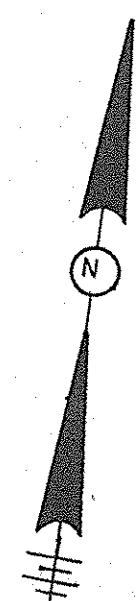
TITLE: PLAN AND PROFILES  
 MANORHILL AND SOMERSET LANES

Des By	JRH	Scale	AS SHOWN	Proj No	85-0111
Drn By	FM	Date	5-23-86		
Chk By	JPK	Approved			PARCEL B

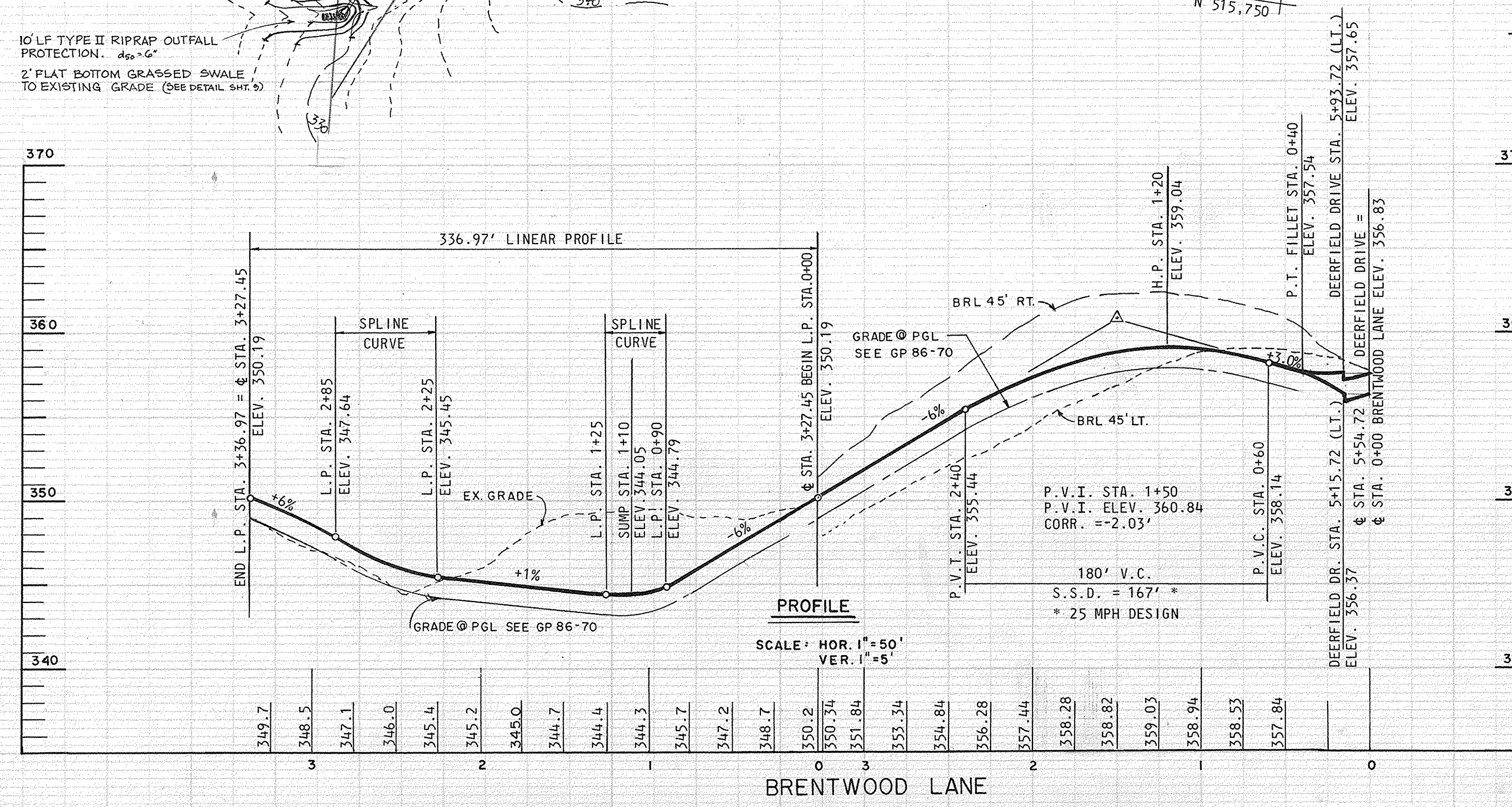
6/3/86  
 Date  
  
*James P. Kennedy*  
 Professional Engr. No. 8906



STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
I-17	L.P. 1+10		STD. A-5	344.05	HOWARD CO. DETAIL SD 4.01
S-7	SEE PLAN	SEE PLAN	STD. END SEC.	SEE PROFILE	HOWARD CO. DETAIL SD 5.51



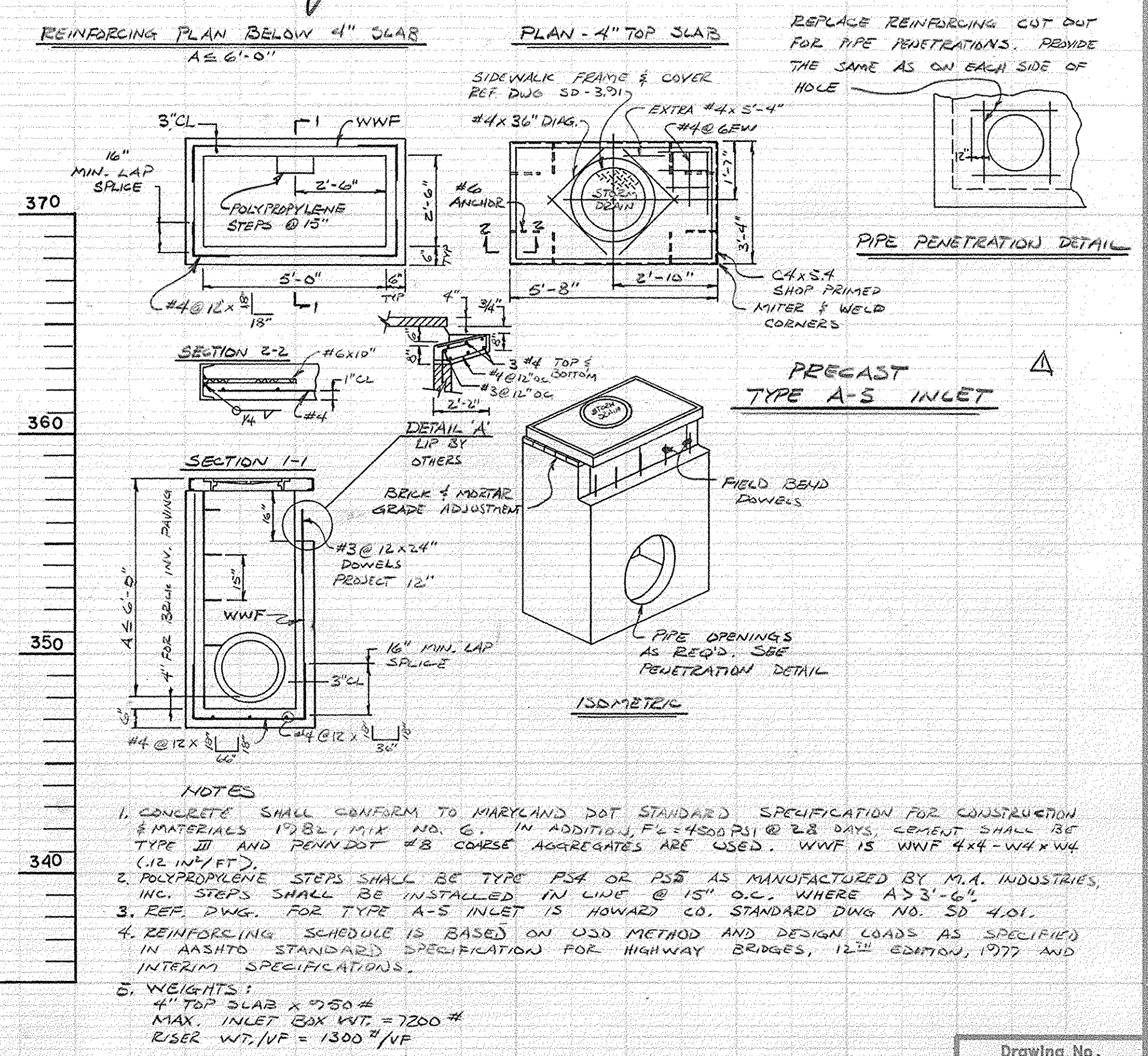
PLAN  
SCALE: 1" = 50'



PROFILE  
SCALE: HOR. 1" = 50'  
VER. 1" = 5'

6386  
Date  
Professional Engr. No. 6906  
James F. Krueger

DEPARTMENT OF PUBLIC WORKS			
CHIEF, BUREAU OF ENGINEERING			
DEPARTMENT OF PLANNING AND ZONING			
CHIEF DIV. OF LAND DEVEL. AND ZONING ADM.			
Date	No.	ADDED TYPE	AS SHOWN INSET DETAIL
10/28/86	1		
OWNER AND DEVELOPER			
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION			
C/O THE HOWARD RESEARCH & DEVELOPMENT CORPORATION			
THE ROUSE COMPANY 10275 Little Patuxent Parkway Columbia, Maryland 21044			
CENTURY ENGINEERING, INC.			
CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204			
AREA: DORSEY HALL SECTION 2-AREA 2 TAX MAP 30-PART OF PARCEL 12 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.			
TITLE: PLAN AND PROFILE			
BRENTWOOD LANE			
Des By	JRH	Scale	AS SHOWN
Drn By	FM	Date	5-23-86
Chk By	JPK	Approved	
Proj No		85-0111	
Parcel		B	



- NOTES
- CONCRETE SHALL CONFORM TO MARYLAND DOT STANDARD SPECIFICATION FOR CONSTRUCTION & MATERIALS 1032.1114 & 1032.1114 IN ADDITION, FC-1400211 @ B.L. DIMS. CEMENT SHALL BE TYPE II AND REINFORCING #8 CONCRETE AGGREGATES ARE USED. WWF IS WWF 4x4-W4x4 (1.2 IN/FT).
  - POLYPROPYLENE STEPS SHALL BE TYPE P5A OR P5B AS MANUFACTURED BY M.A. INDUSTRIES, INC. STEPS SHALL BE INSTALLED IN LINE @ 15" O.C. WHERE A 3'-6" WIDE.
  - REF. DWG. FOR TYPE A-5 INLET IS HOWARD CO. STANDARD DWG. NO. SD 4.01.
  - REINFORCING SCHEDULE IS BASED ON U33 METHOD AND DESIGN LOADS AS SPECIFIED IN AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, 12th EDITION, 1977 AND INTERIM SPECIFICATIONS.
  - WEIGHTS:  
4" TOP SLAB x 750#  
MAX. INLET BOX WGT = 7200#  
R/SER. WGT./LF = 1300#/LF

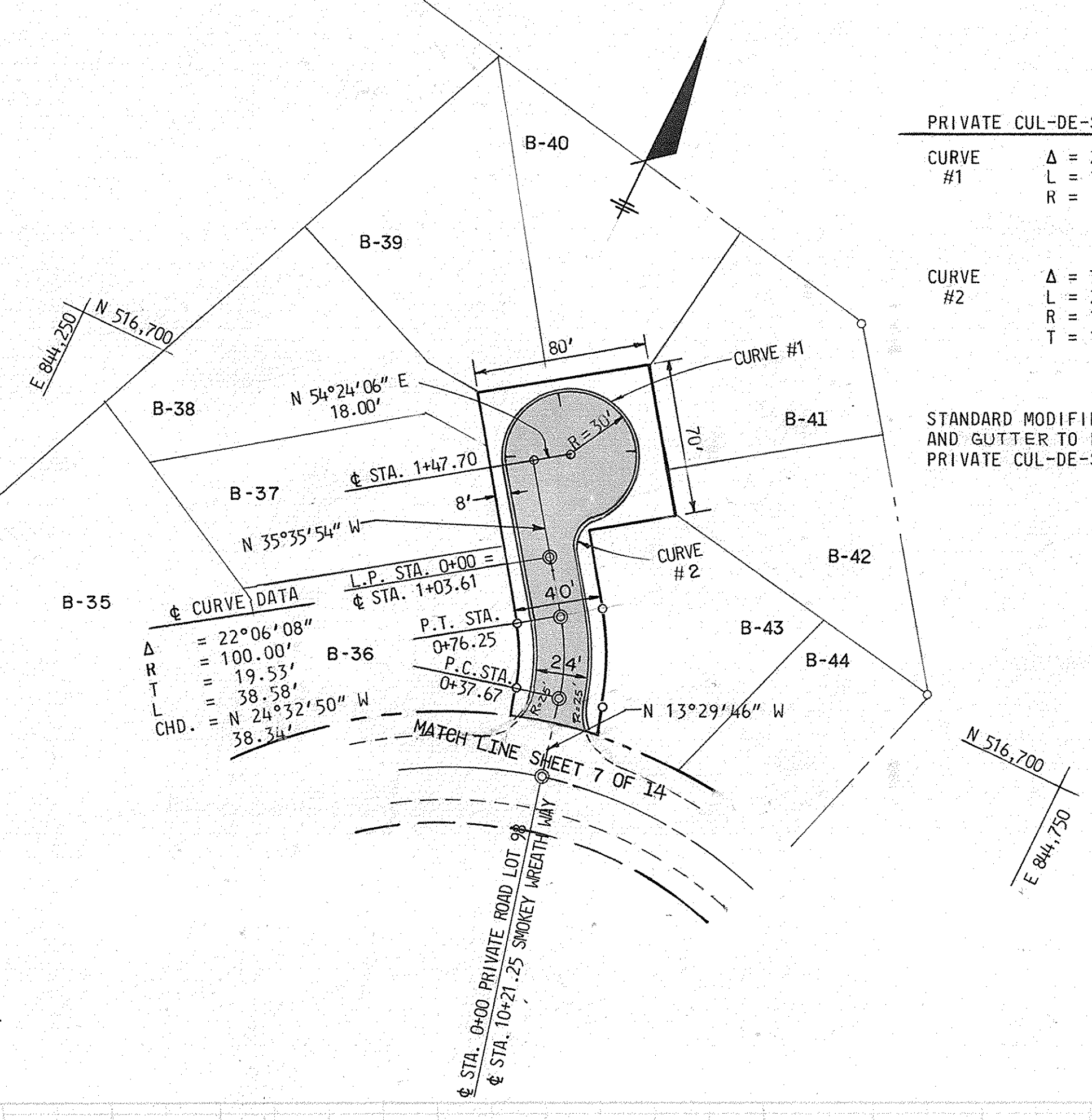
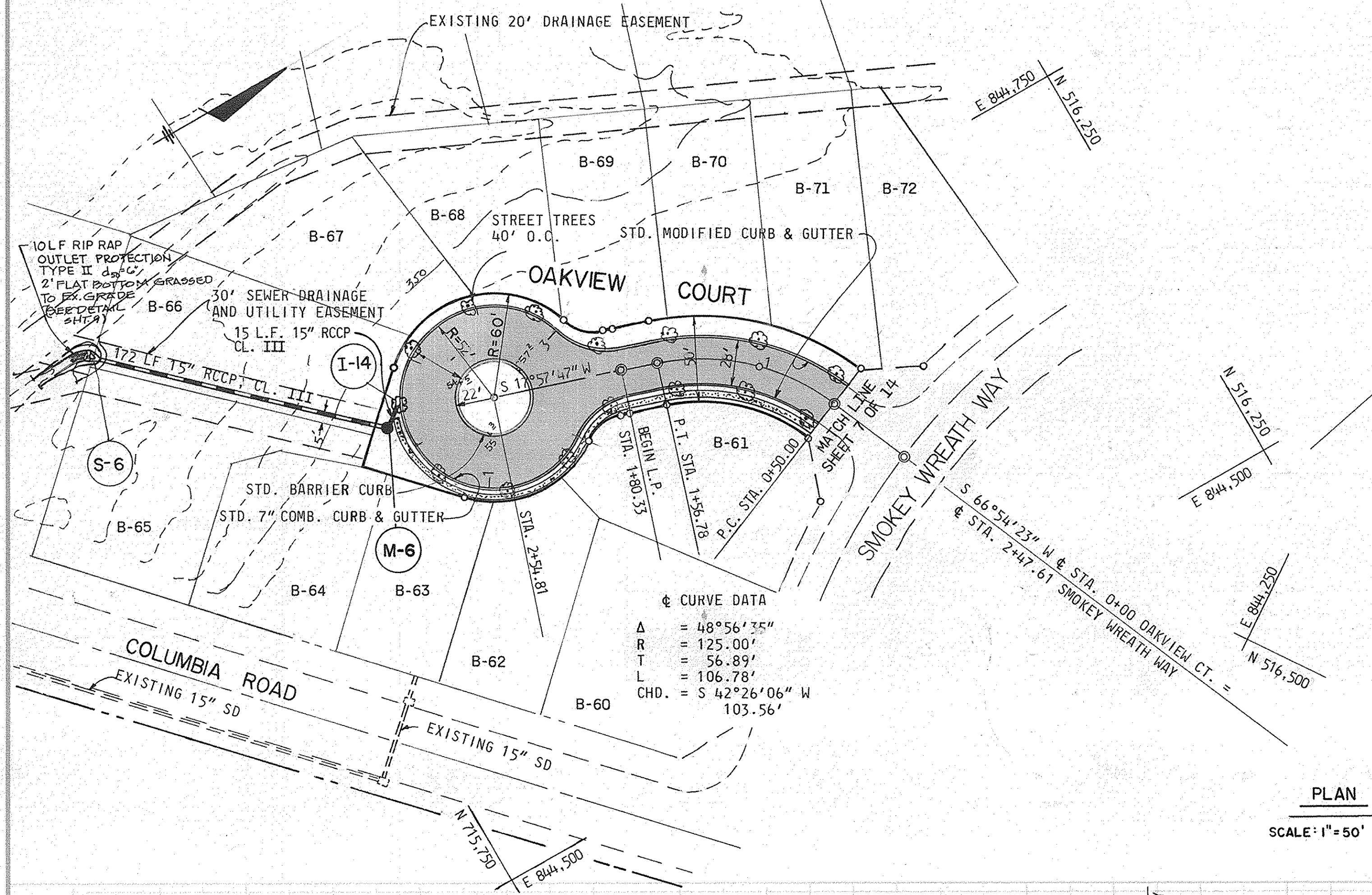
F-86-217







STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
I-14	L.P. 1+75	-	STD. A-5	351.00	HOWARD CO. DETAIL SD 4.01
S-6	SEE PLAN	SEE PLAN	STD. END SEC.	SEE PROFILE	HOWARD CO. DETAIL SD 5.51
M-6	L.P. 1+62	10' BEHIND	STD. MANHOLE	SEE PROFILE	HOWARD CO. DETAIL G 5.12



PRIVATE CUL-DE-SAC CURVE DATA

CURVE #1	Δ = 258°27'47"
	L = 135.33'
	R = 30.00'
CURVE #2	Δ = 78°27'47"
	L = 20.54'
	R = 15.00'
	T = 12.25'

STANDARD MODIFIED COMBINATION CURB AND GUTTER TO BE USED THROUGHOUT PRIVATE CUL-DE-SAC.

PLAN  
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS

*William S. Ray* 8-1-86  
CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING

*John W. Mendenhall* 7-29-86  
CHIEF DIV. OF LAND DEVEL. AND ZONING ADM. DATE

Date	No.	Revision Description

OWNER AND DEVELOPER

COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
C/O  
THE HOWARD RESEARCH & DEVELOPMENT CORPORATION

THE ROUSE COMPANY  
10275 Little Patuxent Parkway  
Columbia, Maryland 21044

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

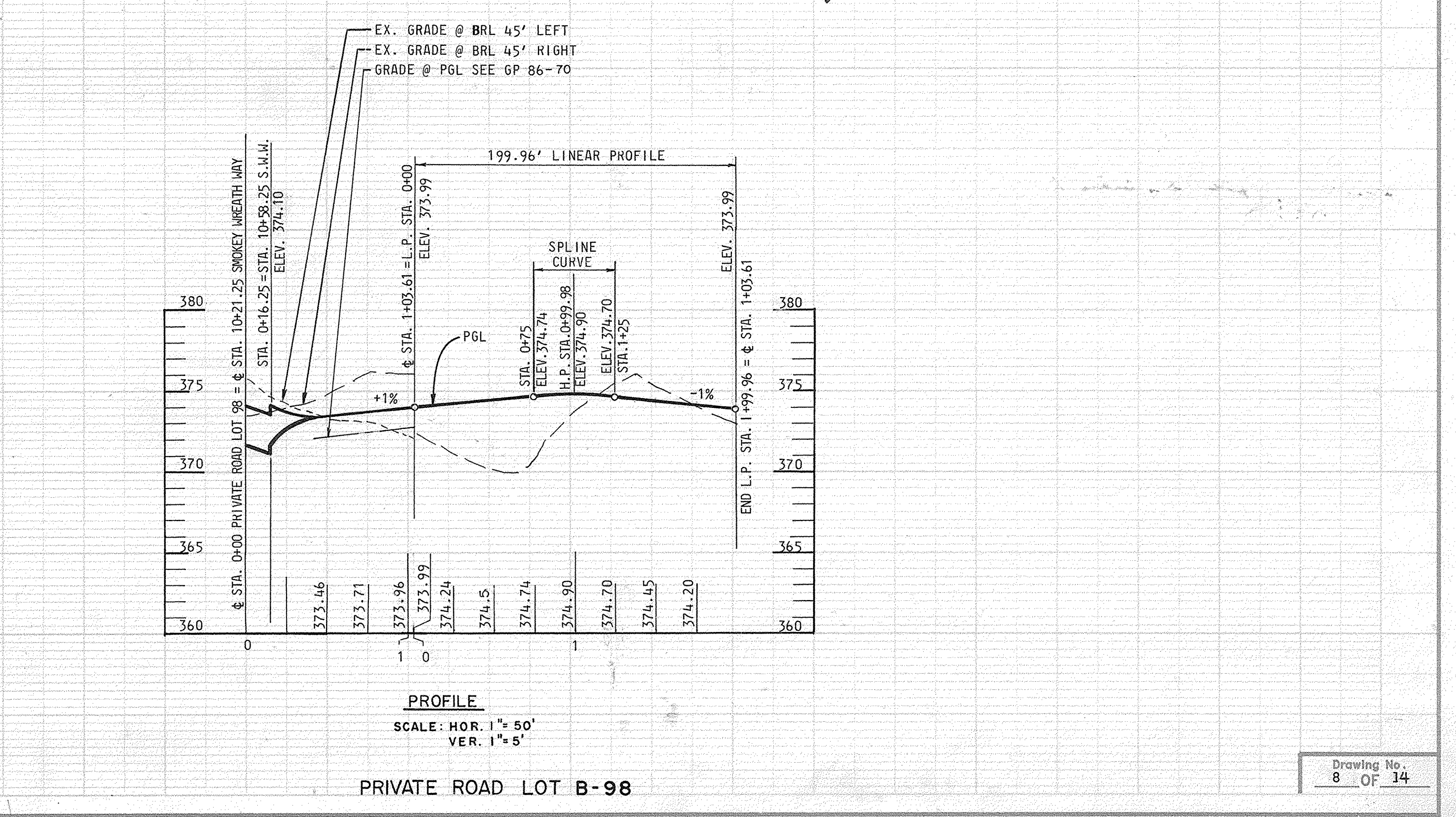
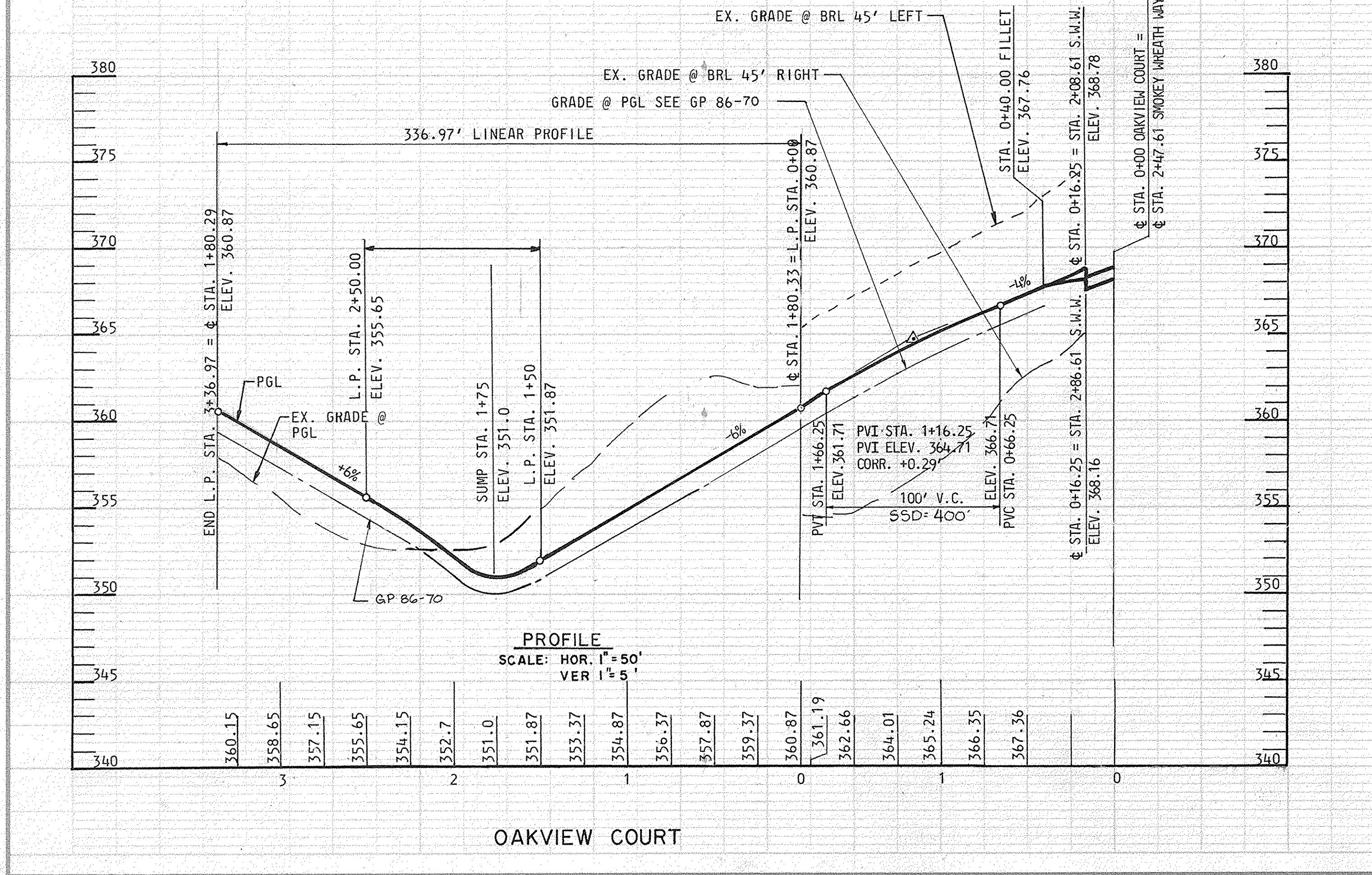
AREA: DORSEY HALL  
SECTION 2 AREA 2 TAX MAP 30 - PART OF PARCEL 12  
2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.

TITLE: PLAN AND PROFILES  
OAKVIEW COURT AND PRIVATE LOT B-98

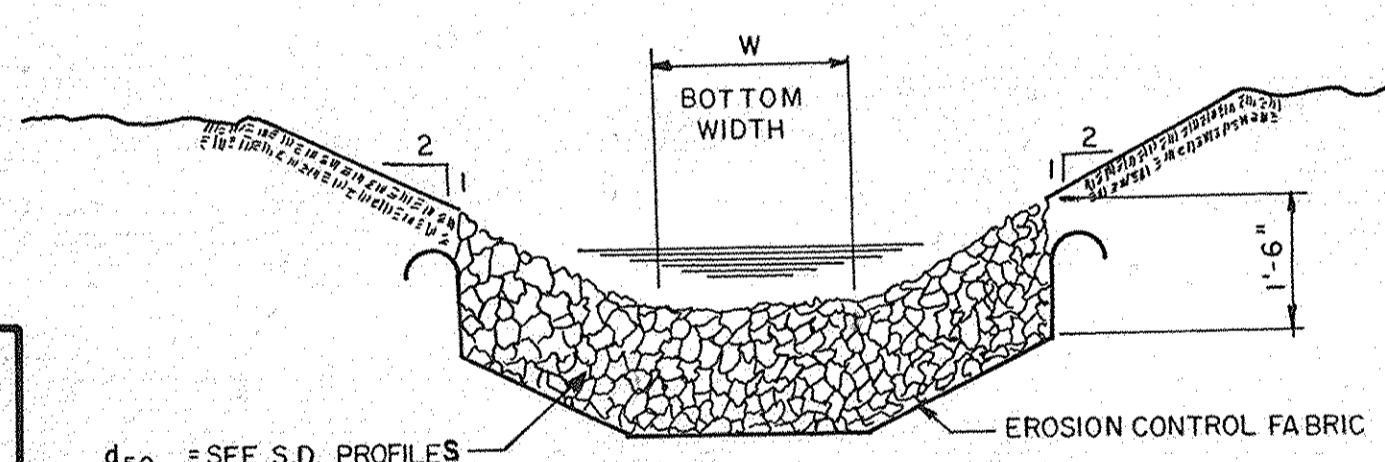
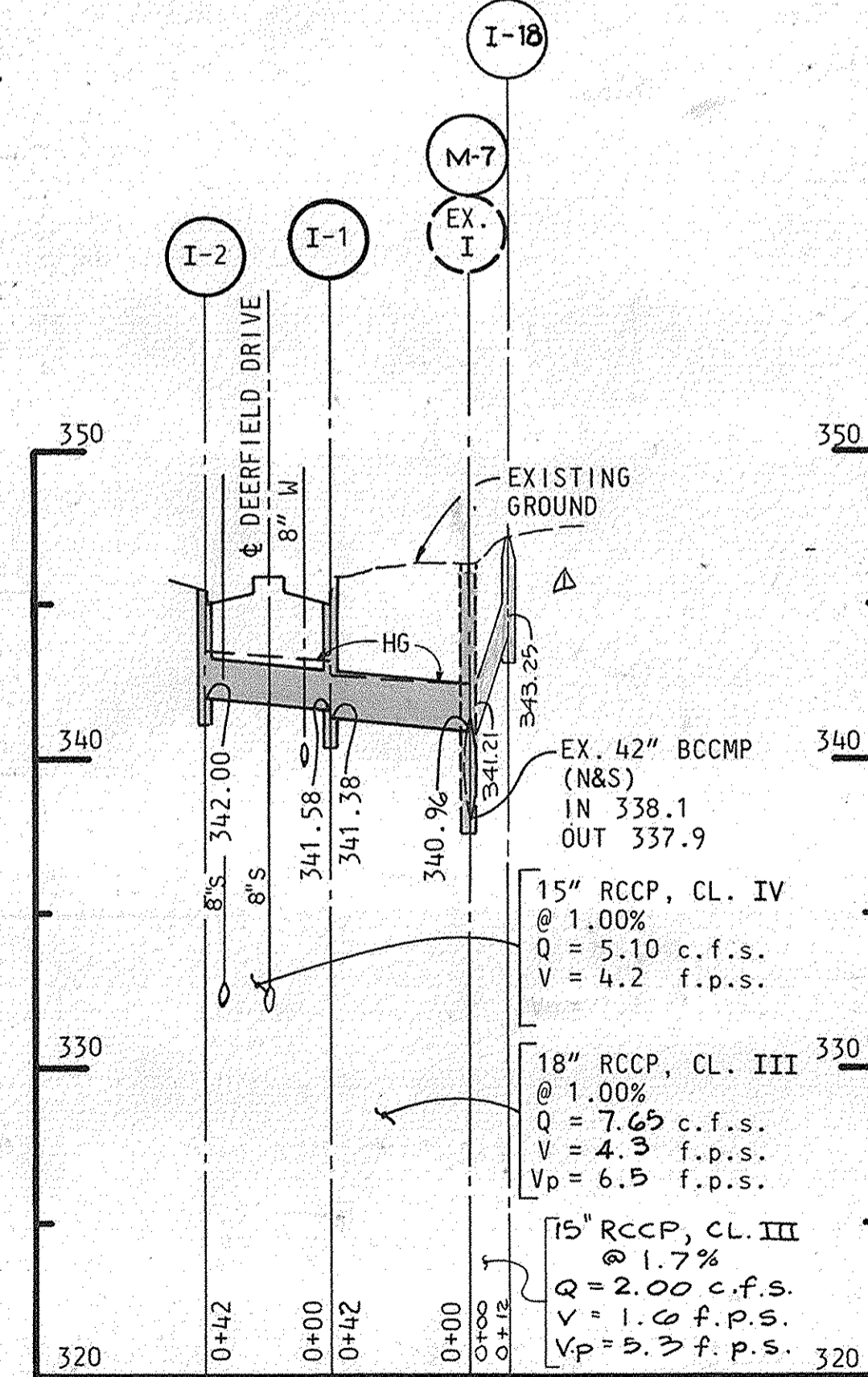
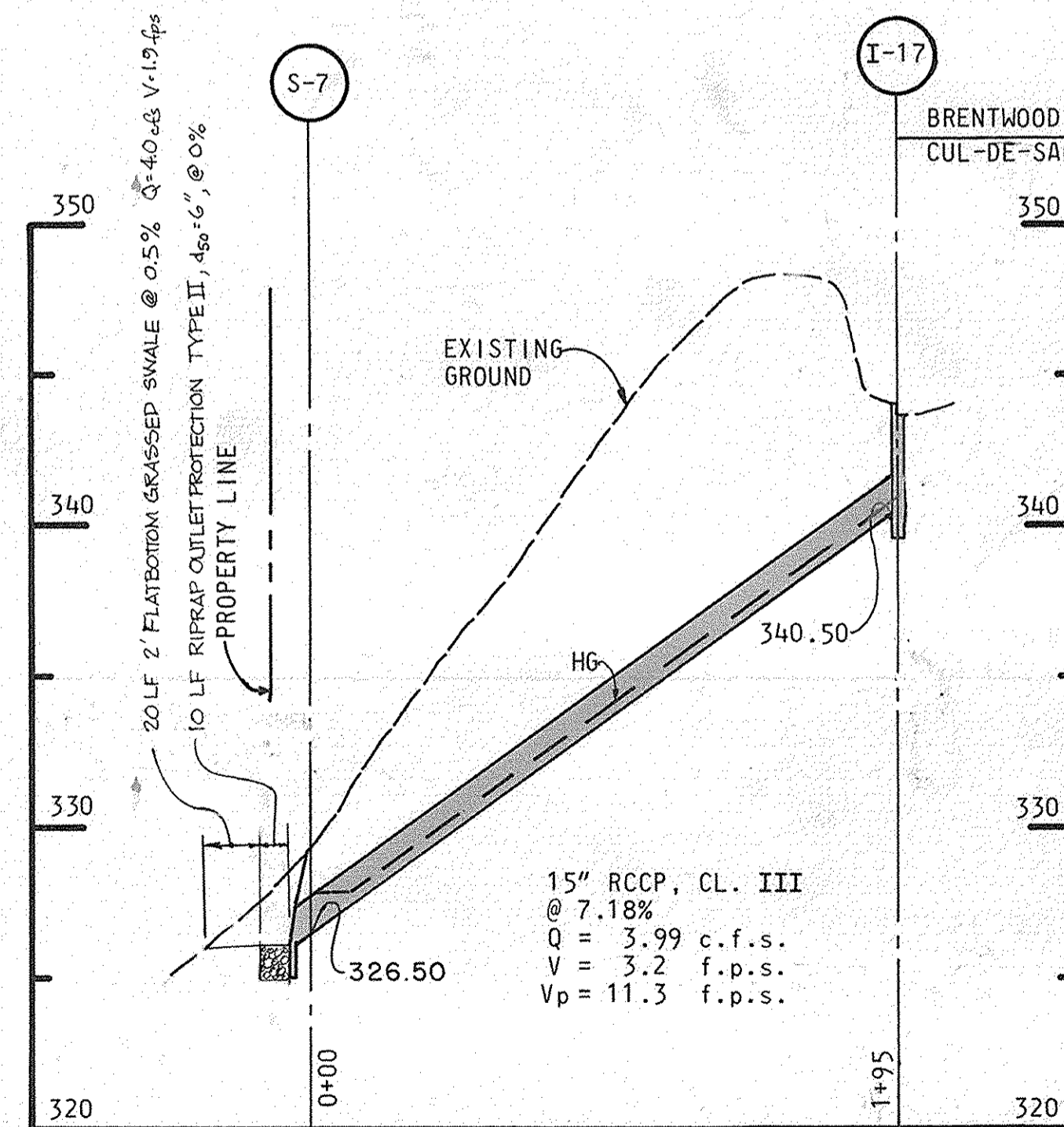
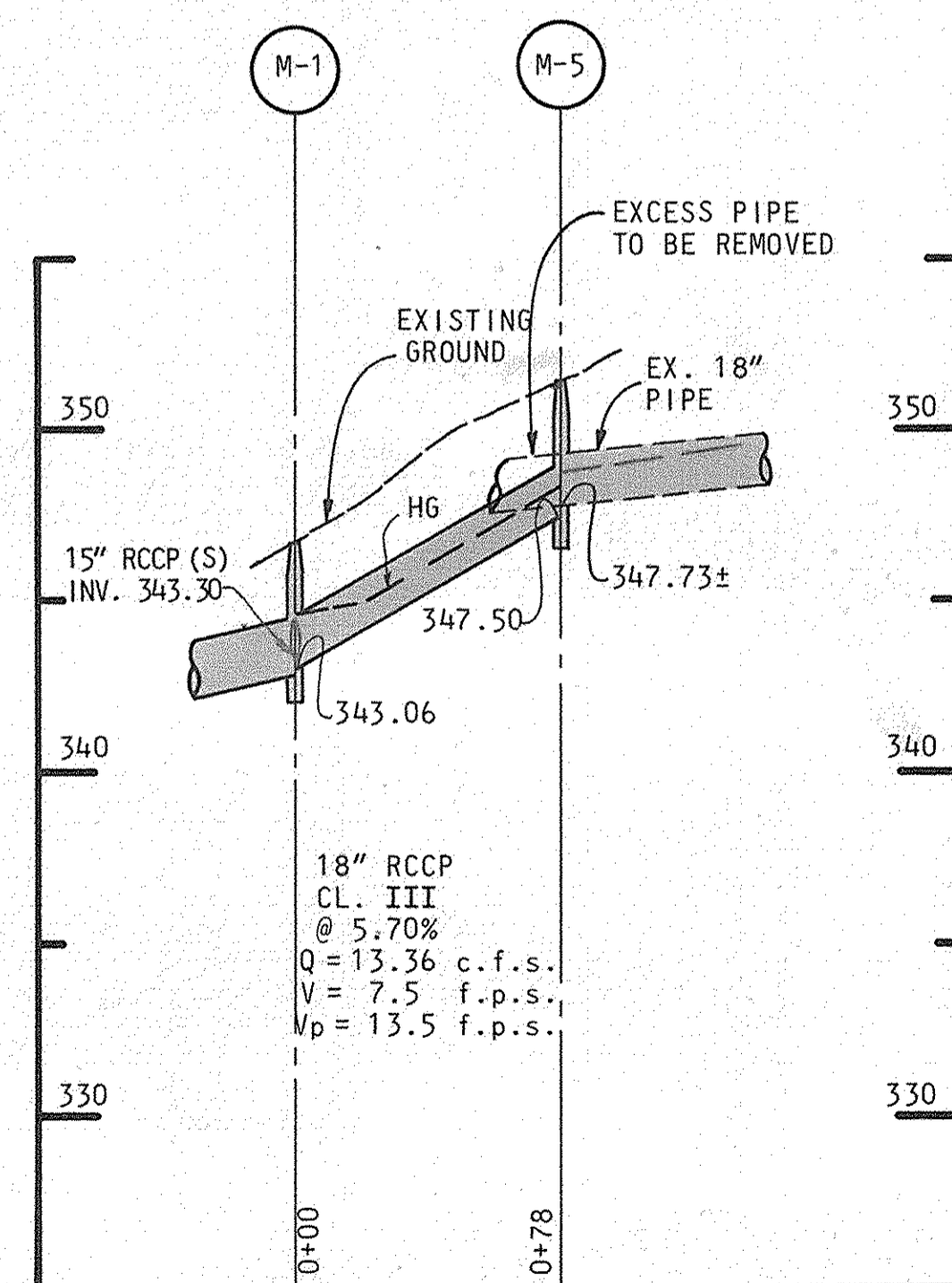
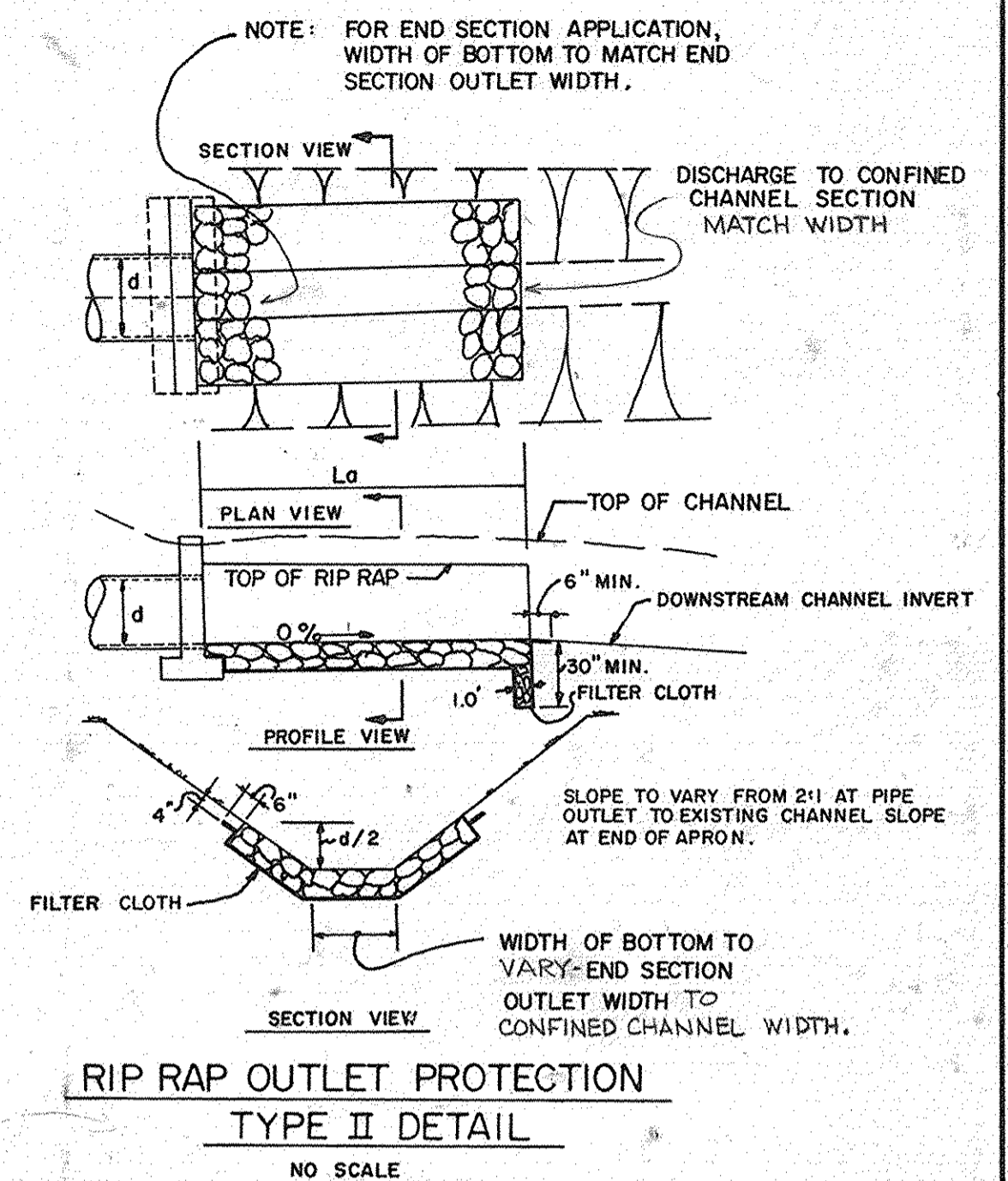
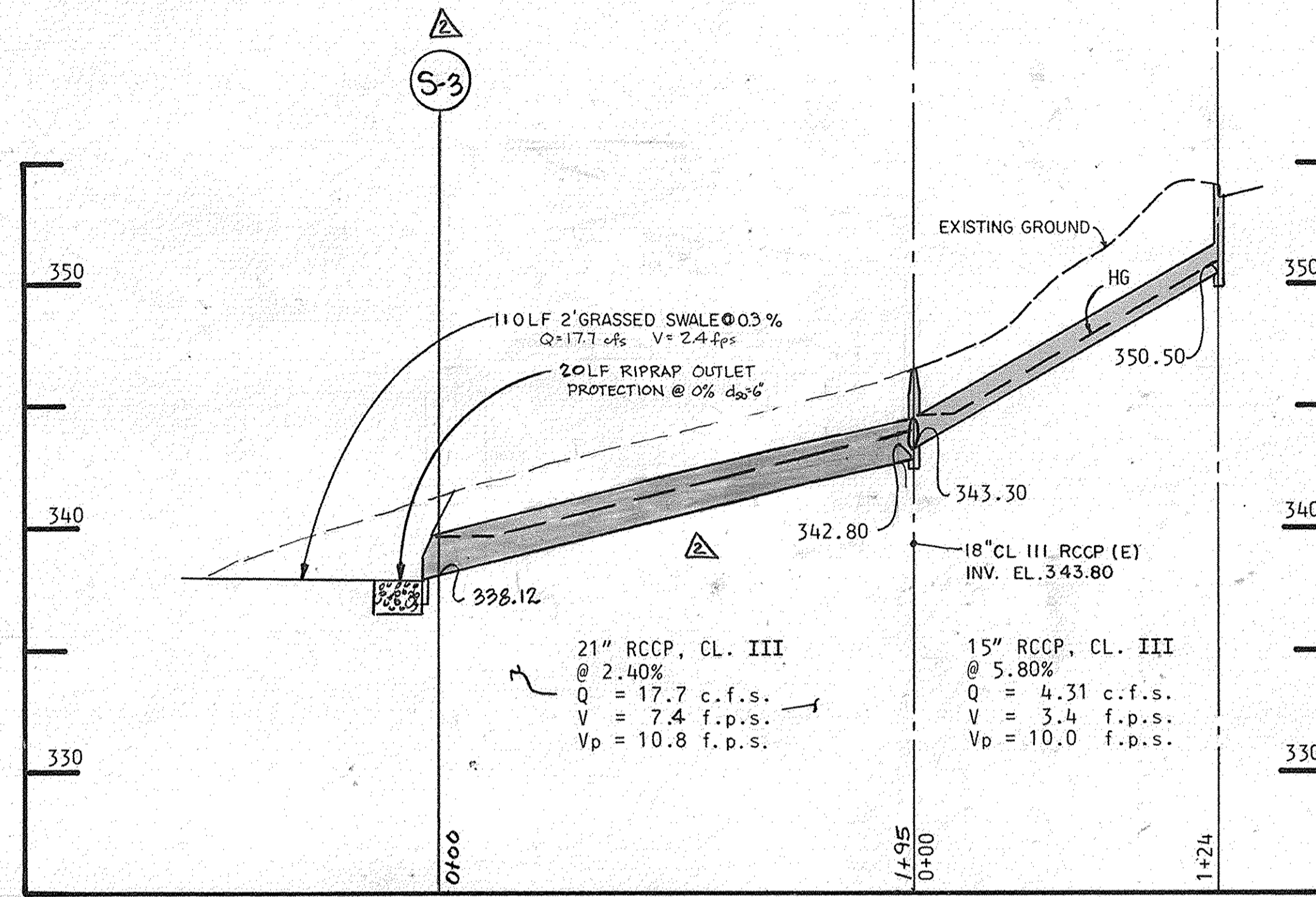
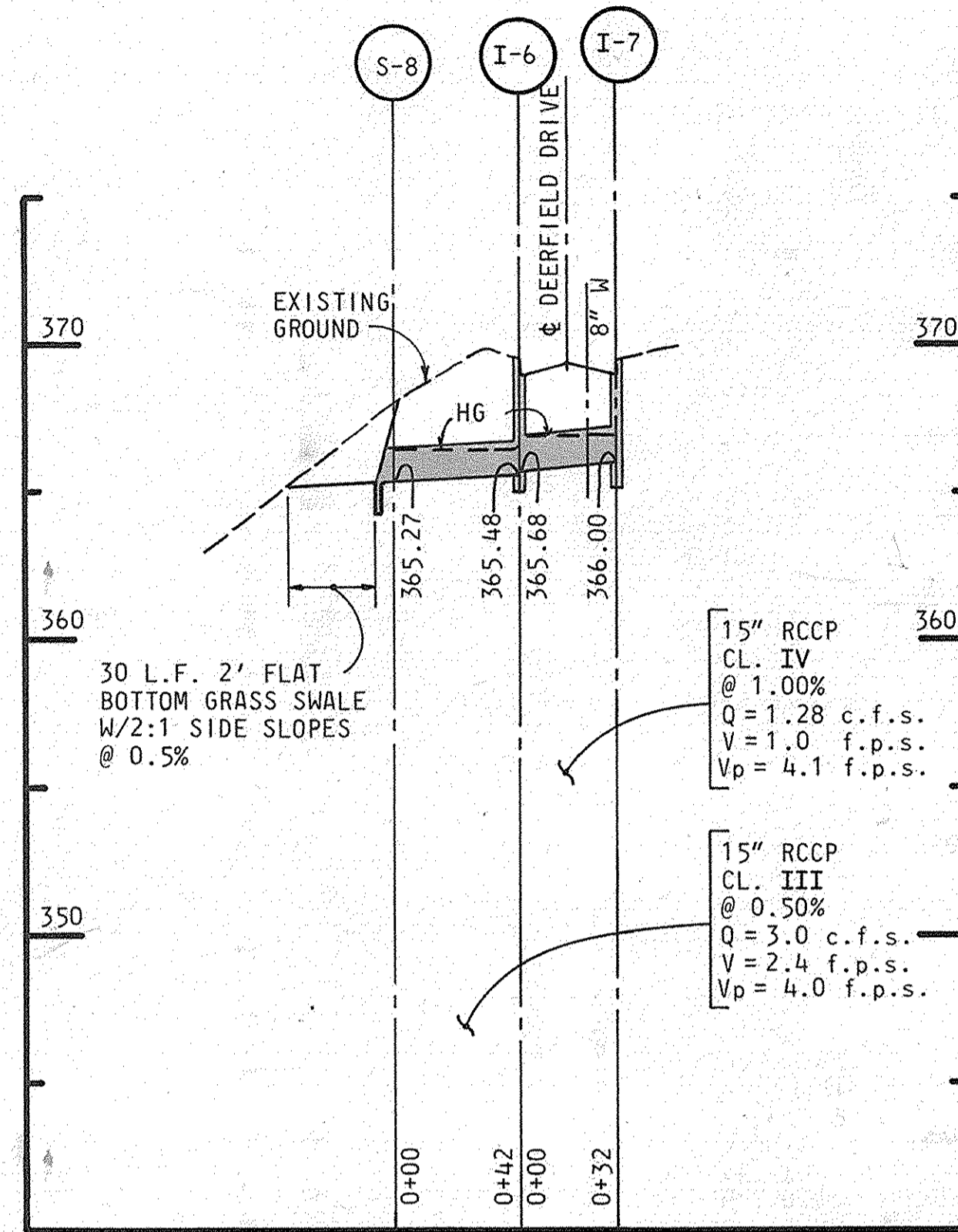
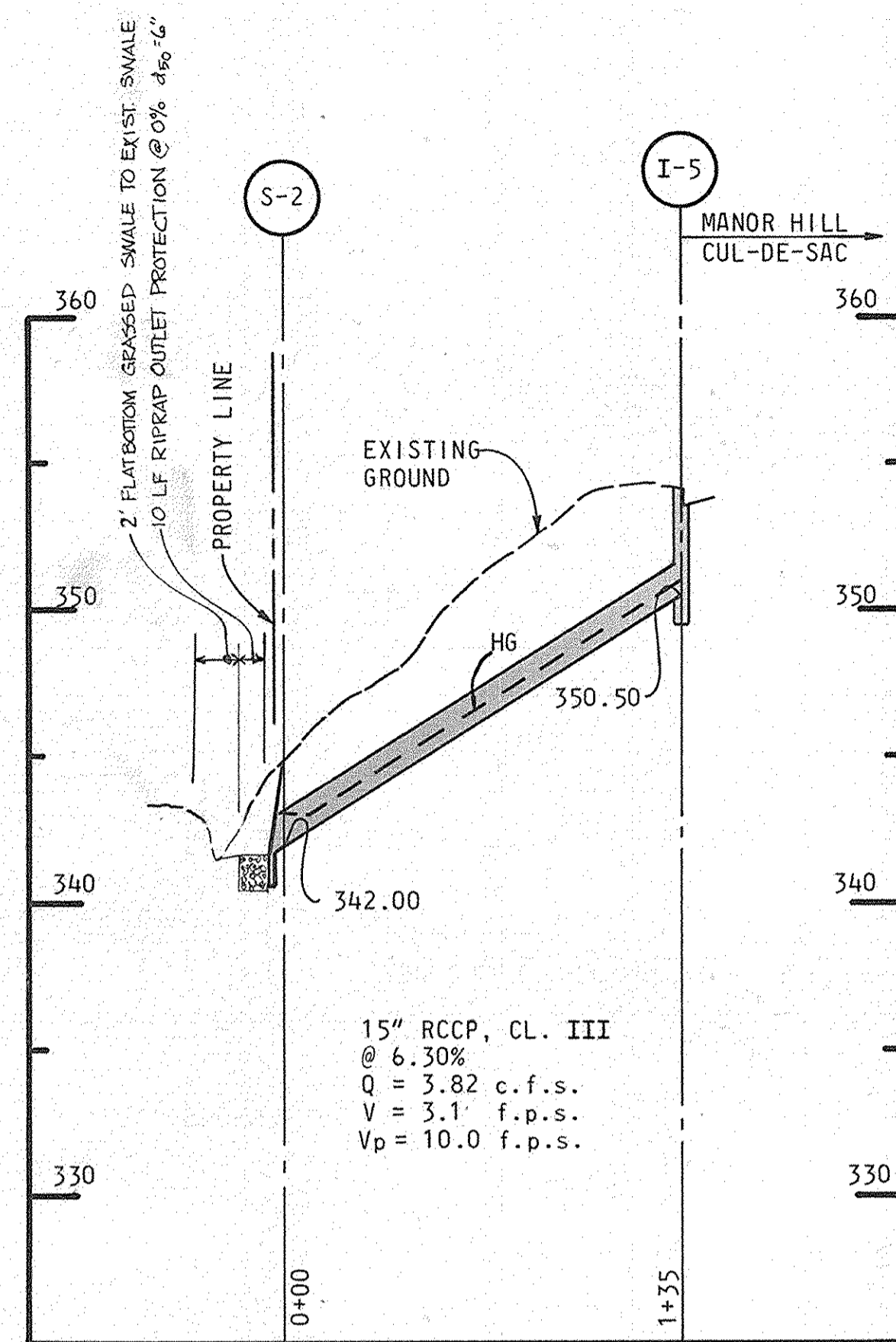
Des By	JRH	Scale	AS SHOWN	Proj No	85-0111
Drn By	FM	Date	5-23-86		
Chk By	JPK	Approved			PARCEL B

*James P. Krausz*  
Professional Engr. No. 6906

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER

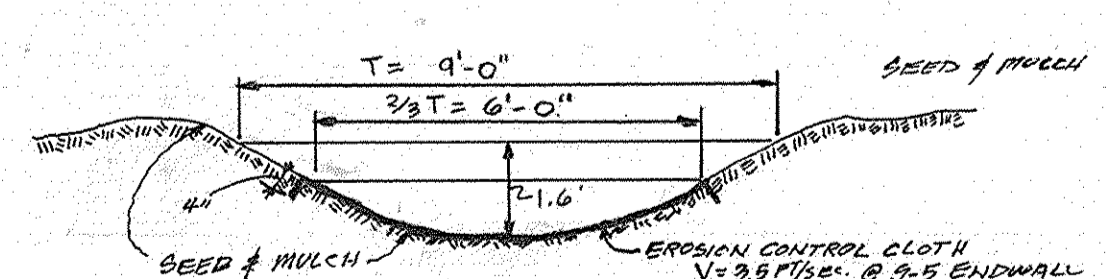






RIP-RAP CHANNEL  
NO SCALE

NOTE: W = 4' FOR RIP-RAP CHANNEL AT ENDWALL  
S-5 ONLY. W = 2' FOR ALL OTHER  
RIP-RAP CHANNELS.



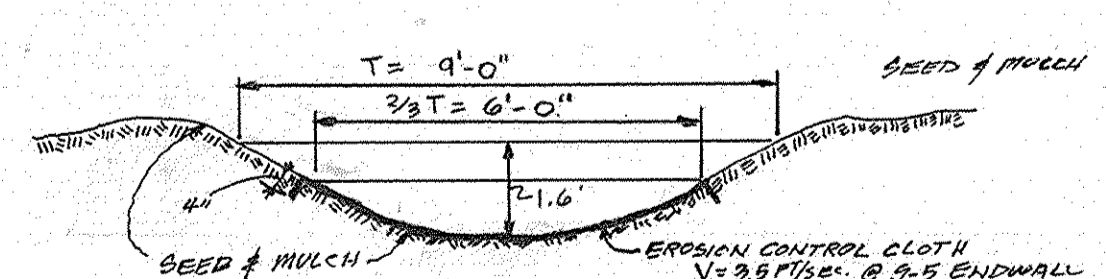
GRASSSED CHANNEL  
NO SCALE

NOTE: T = 9'-0" FOR GRASSSED CHANNEL AT ENDWALL  
S-5 ONLY W = 2' FOR ALL OTHER RIP-RAP  
CHANNELS.

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

RIP-RAP CHANNEL  
NO SCALE

NOTE: W = 4' FOR RIP-RAP CHANNEL AT ENDWALL  
S-5 ONLY. W = 2' FOR ALL OTHER  
RIP-RAP CHANNELS.



GRASSSED CHANNEL  
NO SCALE

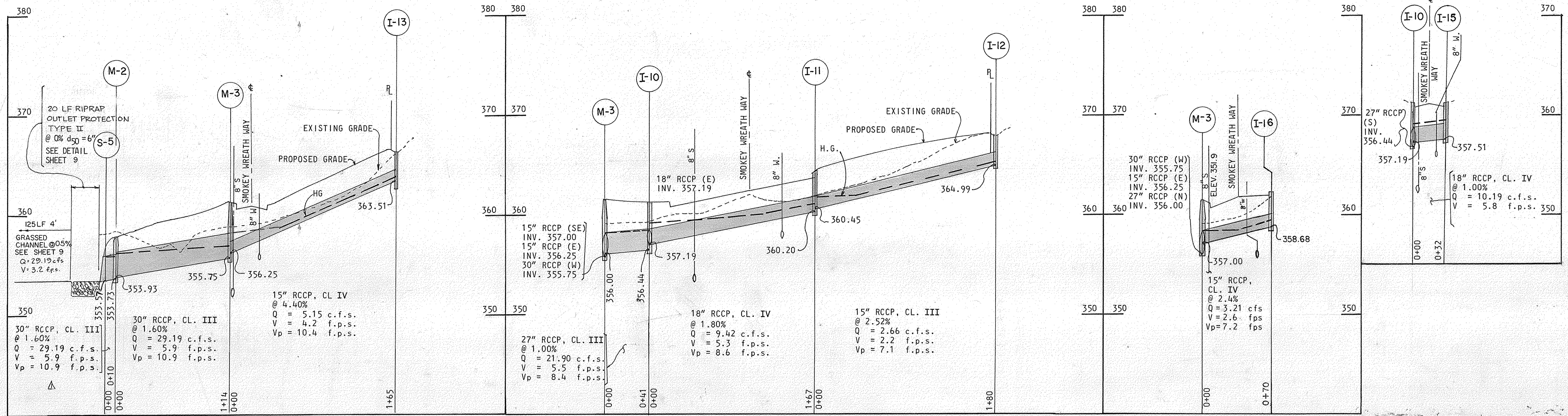
NOTE: T = 9'-0" FOR GRASSSED CHANNEL AT ENDWALL  
S-5 ONLY W = 2' FOR ALL OTHER RIP-RAP  
CHANNELS.

DEPARTMENT OF PUBLIC WORKS		
CHIEF BUREAU OF ENGINEERING		
DEPARTMENT OF PLANNING AND ZONING		
CHIEF DIV. OF LAND DEVEL. AND ZONING ADM.		
Date	No	Revision Description
8-10-87	▲	RELOCATE S-3
10/14/88	▲	ADDED I-18 & M-7
OWNER AND DEVELOPER		
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION		
C/O		
THE HOWARD RESEARCH & DEVELOPMENT CORPORATION		
THE ROUSE COMPANY		
10275 Little Patuxent Parkway		
Columbia, Maryland 21044		
CENTURY ENGINEERING, INC.		
CONSULTING ENGINEERS • PLANNERS		
32 WEST ROAD		
TOWSON, MARYLAND 21204		
AREA		
SECTION 2 - AREA 2 TAX MAP 30 - PART OF PARCEL I2		
2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.		
TITLE		
STORM DRAIN PROFILES AND DETAILS		
Des By	JRH	Scale AS SHOWN
Proj No	85-0111	
Drn By	JBD	Date 5-23-86
Drawing No.	9	OF 14
Chk By	JPK	Approved

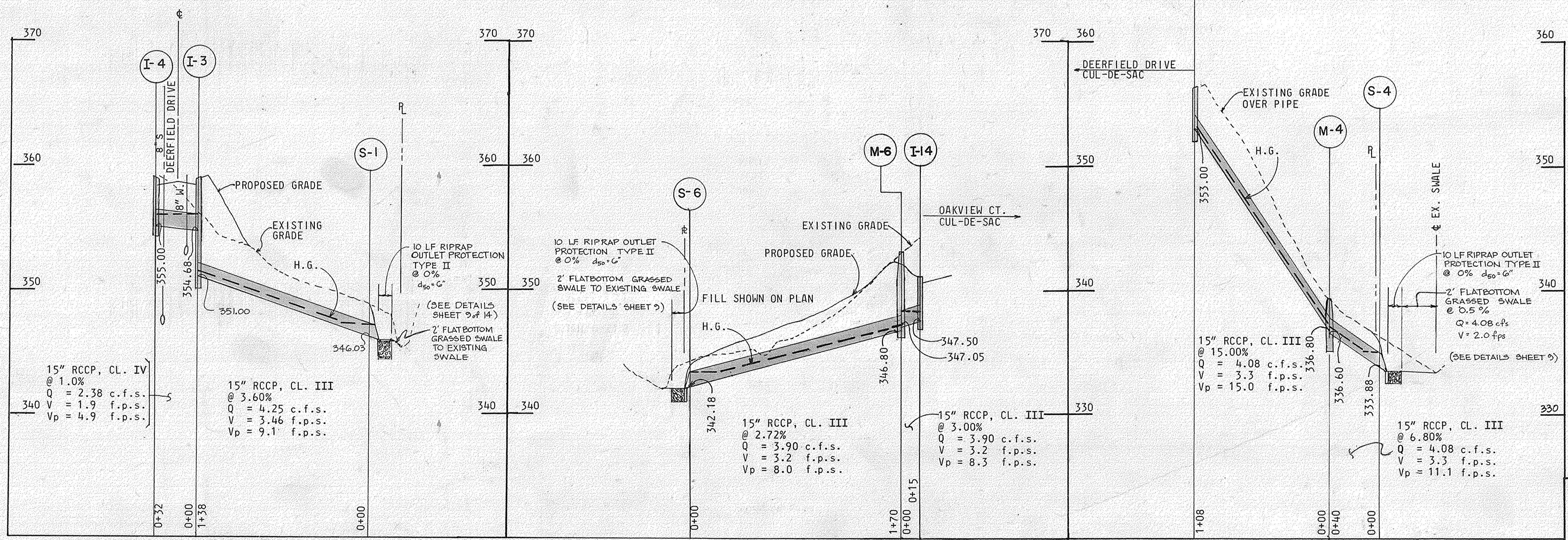
6/21/86  
Date

Professional Engr. No. 8906





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

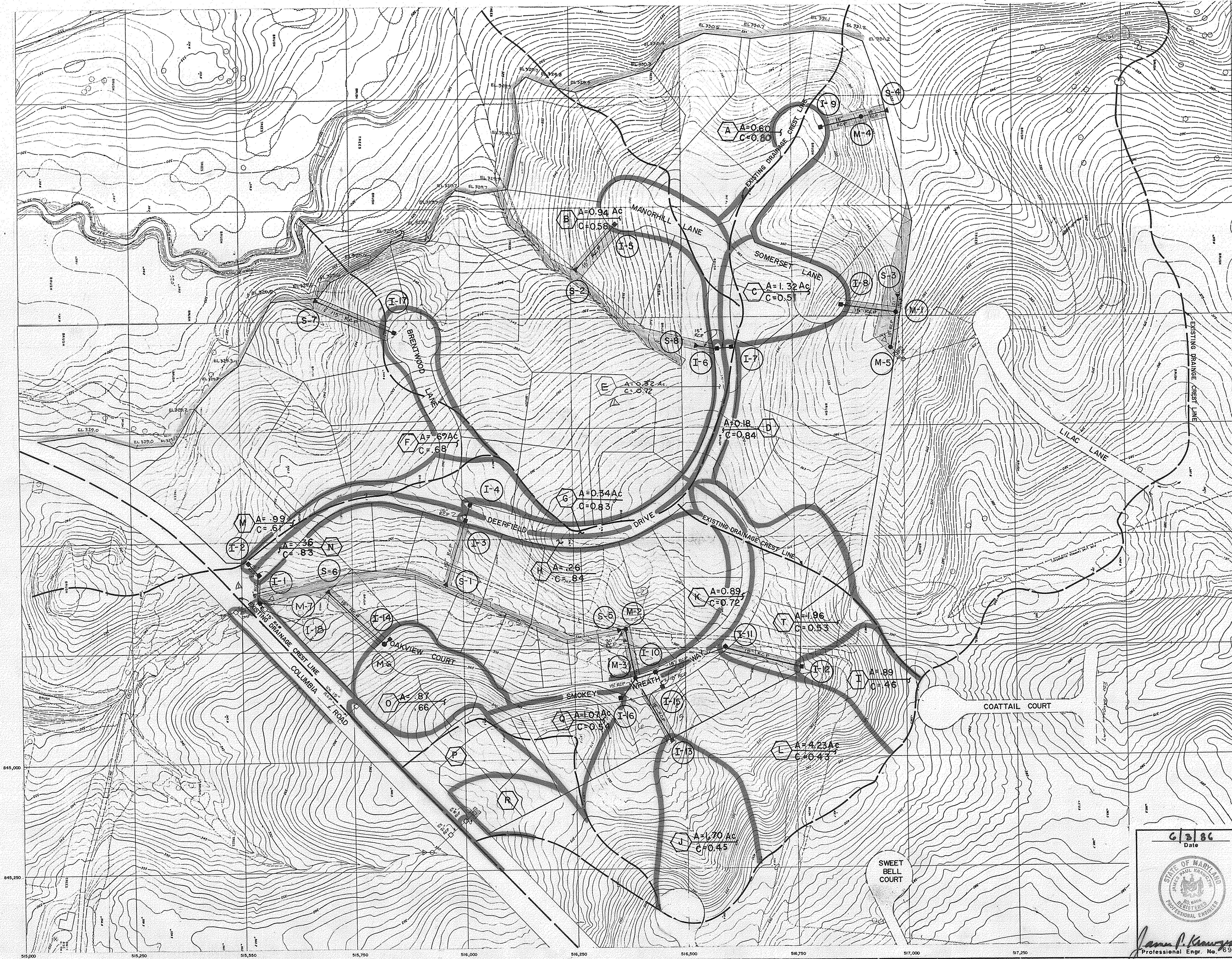


DEPARTMENT OF PUBLIC WORKS	
<i>William B. Ray</i> CHIEF, BUREAU OF ENGINEERING	8-1-86 DATE
DEPARTMENT OF PLANNING AND ZONING	
<i>John W. Wachsman</i> CHIEF DIV. OF LAND DEVEL. AND ZONING ADM.	7-29-86 DATE
15/11/86 Date	ADDED INFO Revision Description
OWNER AND DEVELOPER COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION C/O THE HOWARD RESEARCH & DEVELOPMENT CORPORATION THE ROUSE COMPANY 10275 Little Patuxent Parkway Columbia, Maryland 21044	
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS • PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204	
AREA SECTION 2 - AREA 2 TAX MAP 30 - PART OF PARCEL 12 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.	
TITLE STORM DRAIN PROFILES AND DETAILS	
Des By JRH	Scale AS SHOWN
Drn By FM	Date 5-23-86
Proj No 85-0111	Drawing No. 10 OF 14
Chk By JPK	Approved

6/3/86  
Date  
*James P. Kravitz*  
Professional Engr. No. 0906

F-86-217





DEPARTMENT OF PUBLIC WORKS	
 CHIEF, BUREAU OF ENGINEERING DATE	
DEPARTMENT OF PLANNING AND ZONING	
 CHIEF DIV. OF LAND DEVEL. & ZONING ADM. DATE	
10/4/86	Added AREA E, I-18, M-7
Date	Revision Description
OWNER AND DEVELOPER	
COLUMBIA INDUSTRIAL AND DEVELOPMENT CORPORATION	
C/O	
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY 10275 Little Patuxent Parkway Columbia, Maryland 21044	
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS • PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204	
AREA	DORSEY HALL SECTION 2 AREA 2 TAX MAP 30-PART OF PARCEL 12 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD
TITLE	DRAINAGE AREA MAP DORSEY HALL-PARCEL B
Des By	JRH
Scale	1" = 100'
Proj	No 85-0111
Drn By	FM
Date	5-23-86
Drawing No.	11 OF 14
Chk By	JPK
Approved	

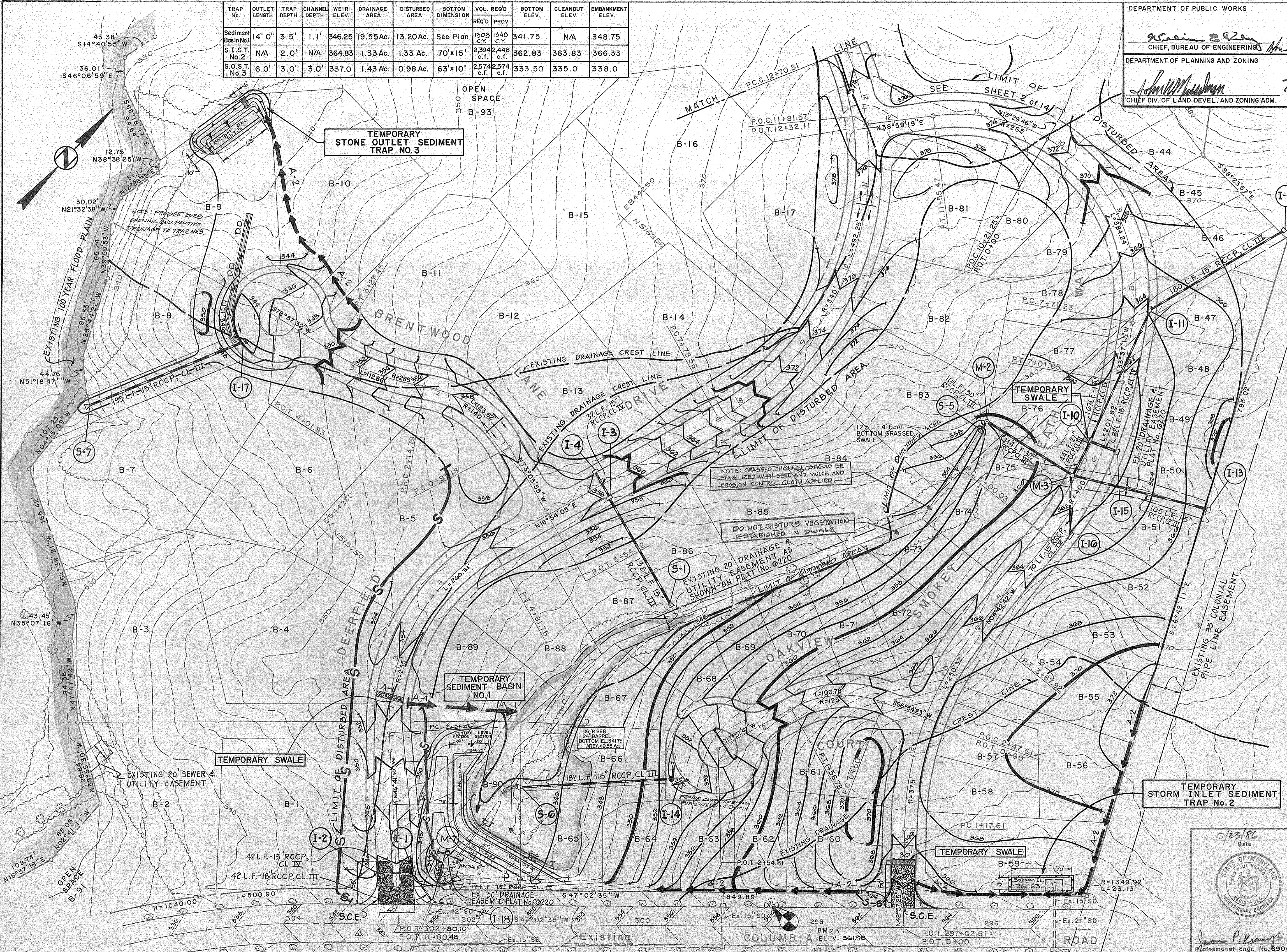
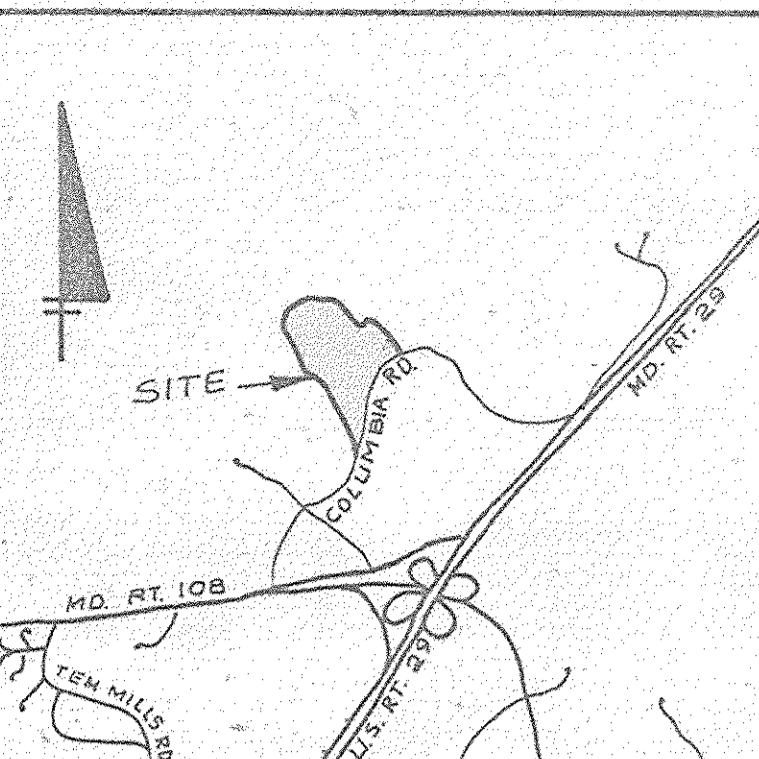
6/3/86  
Date

James P. Krueger  
Professional Engr. No. 6906



TRAP No.	OUTLET LENGTH	TRAP DEPTH	CHANNEL DEPTH	WEIR ELEV.	DRAINAGE AREA	DISTURBED AREA	BOTTOM DIMENSION	VOL. REQ'D REQ'D PROV.	BOTTOM ELEV.	CLEANOUT ELEV.	EMBANKMENT ELEV.
Sediment Basin No.1	14' 0"	3.5'	1.1'	346.25	19.55 Ac.	13.20 Ac.	See Plan	1303 C.Y. 1340 C.Y.	341.75	N/A	348.75
S.I.S.T. No.2	N/A	2.0'	N/A	364.83	1.33 Ac.	1.33 Ac.	70' x 15'	2,394 c.f. 2,448 c.f.	362.83	363.83	366.33
S.O.S.T. No.3	6.0'	3.0'	3.0'	337.0	1.43 Ac.	0.98 Ac.	63' x 10'	2,574 c.f. 2,574 c.f.	333.50	335.0	338.0

DEPARTMENT OF PUBLIC WORKS  
*William J. Pen* 5-1-86  
 CHIEF, BUREAU OF ENGINEERING  
 DEPARTMENT OF PLANNING AND ZONING  
*James M. ...* 7-29-86  
 CHIEF DIV. OF LAND DEVEL. AND ZONING ADM. DATE



- NOTE:
- FOR SEDIMENT CONTROL DETAILS SEE DRAWING No. 14 of 14.
  - SEED and MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.
  - NO BUILDING WILL BE ALLOWED IN THE POOL AREA OF THE BASIN UNTIL THE WATERSHED IS STABILIZED AND BASIN REMOVED.

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."  
*Gregory Klar* 5-30-86  
 SIGNATURE OF DEVELOPER DATE  
 GREGORY KLAR

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."  
*James P. Krawczyk* 5/23/86  
 SIGNATURE OF ENGINEER DATE  
 JAMES P. KRAWCZYK  
 REVIEWED FOR *Howard* S.C.D. NAME  
 AND MEETS TECHNICAL REQUIREMENTS.  
*James M. ...* 7-29-86  
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Stephen d. ...* 7/28/86  
 HOWARD S.C.D. DATE

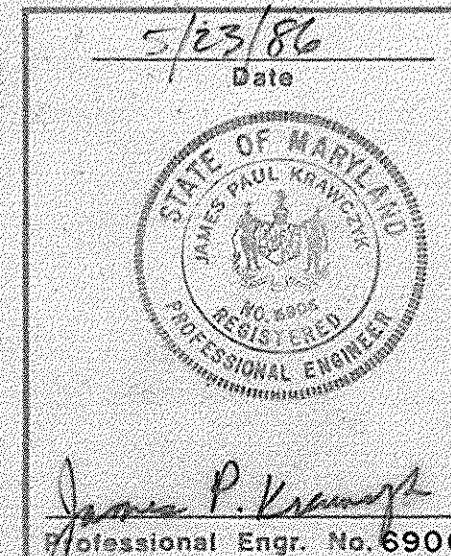
Date	No.	Revision Description
10/15/86	1	MOVED DEERFIELD/COLUMBIA INTERSECTION

OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 C/O  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 10275 Little Patuxent Parkway  
 Columbia, Maryland 21044

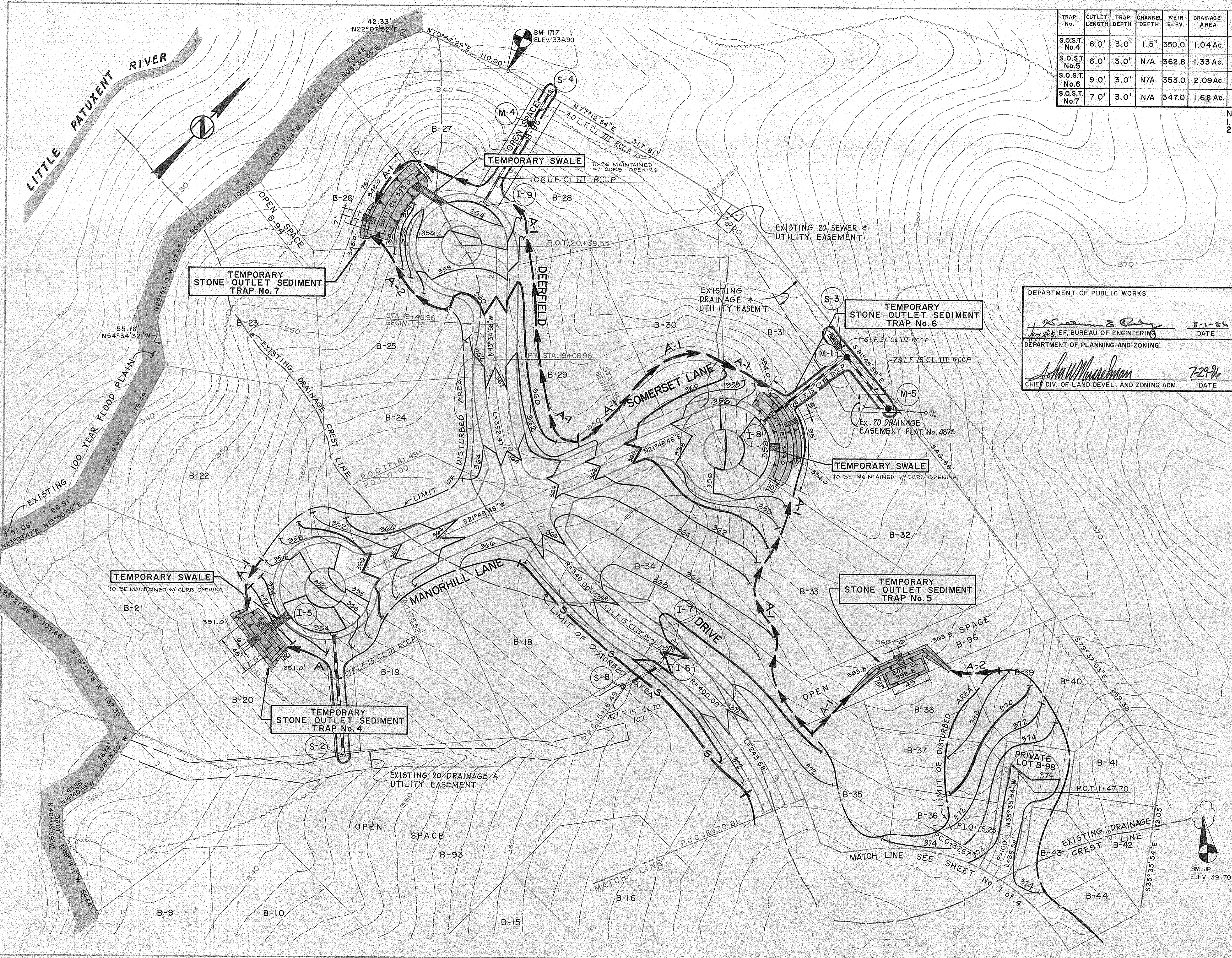
CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS - PLANNERS  
 TOWSON, MARYLAND 21204

AREA DORSEY HALL  
 SECTION 2 AREA 2 TAX MAP 30 - PART OF PARCEL 12  
 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.  
 TITLE GRADING & SEDIMENT CONTROL PLAN  
 DORSEY HALL - PARCEL B

Des By	JRH	Scale	1" = 50'	Proj No	85-0111
Drn By	JP/MH	Date	5-23-86	Drawing No.	12 OF 14
Chk By	JPK	Approved			







TRAP No.	OUTLET LENGTH	TRAP DEPTH	CHANNEL DEPTH	WEIR ELEV.	DRAINAGE AREA	DISTURBED AREA	BOTTOM DIMENSION	VOL. REQ'D	BOTTOM ELEV.	CLEANOUT ELEV.	EMBANKMENT ELEV.	
								REQ'D	PROV.			
S.O.S.T. No. 4	6.0'	3.0'	1.5'	350.0	1.04 Ac.	1.04 Ac.	45' x 10'	1872 c.f.	1872 c.f.	346.0	347.5	351.0
S.O.S.T. No. 5	6.0'	3.0'	N/A	362.8	1.33 Ac.	0.68 Ac.	45' x 15'	2,394 c.f.	2,592 c.f.	358.8	360.3	363.8
S.O.S.T. No. 6	9.0'	3.0'	N/A	353.0	2.09 Ac.	2.09 Ac.	95' x 10'	3,762 c.f.	3,822 c.f.	349.0	350.5	354.0
S.O.S.T. No. 7	7.0'	3.0'	N/A	347.0	1.68 Ac.	1.68 Ac.	75' x 10'	3,024 c.f.	3,042 c.f.	343.0	344.5	348.0

NOTE:  
 1. FOR SEDIMENT CONTROL DETAILS SEE DRAWING 40F4.  
 2. SEED AND MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.

5/23/86  
Date

James P. Krawczyk  
Professional Engr. No. 6906

DEPARTMENT OF PUBLIC WORKS

*[Signature]* 5-1-86  
 CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7-29-86  
 CHIEF DIV. OF LAND DEVEL. AND ZONING ADM. DATE

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

*[Signature]* 5-30-86  
 SIGNATURE OF DEVELOPER DATE  
 GREGORY KLAR

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."

*[Signature]* 5/23/86  
 SIGNATURE OF ENGINEER DATE  
 JAMES P. KRAWCZYK

REVIEWED FOR HOWARD S.C.D.  
 NAME  
 AND MEETS TECHNICAL REQUIREMENTS.

*[Signature]* 7-29-86  
 U.S. SOIL CONSERVATION SERVICE DATE

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

*[Signature]* 7/29/86  
 HOWARD S.C.D. DATE

Date	No.	Revision Description

OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL AND DEVELOPMENT CORPORATION

C/O  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 10275 Little Patuxent Parkway  
 Columbia, Maryland 21044

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

AREA SECTION 2 AREA 2 TAX MAP 30-PART OF PARCEL 12  
 2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.

TITLE  
 GRADING & SEDIMENT CONTROL PLAN  
 DORSEY HALL - PARCEL B

Des By JRH Scale 1" = 50' Proj No 85-0111  
 Drn By JP/MH Date 5-23-86 Drawing No.  
 Ctk By JPK Approved 13 OF 14



