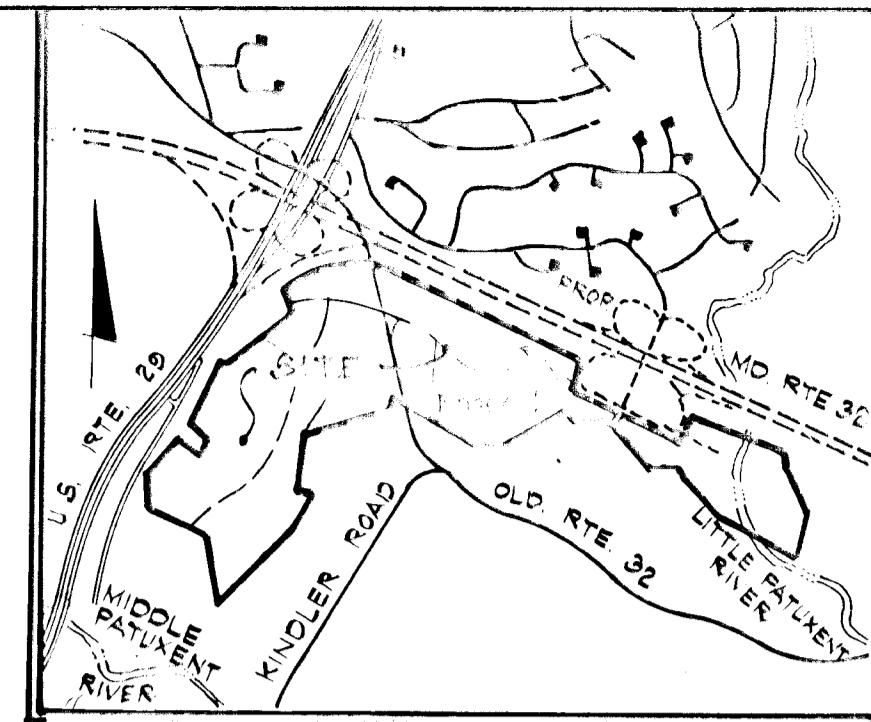


# RIVERS CORPORATE PARK

## SECTION 1, AREA 1, PHASE I 6TH. ELECTION DISTRICT

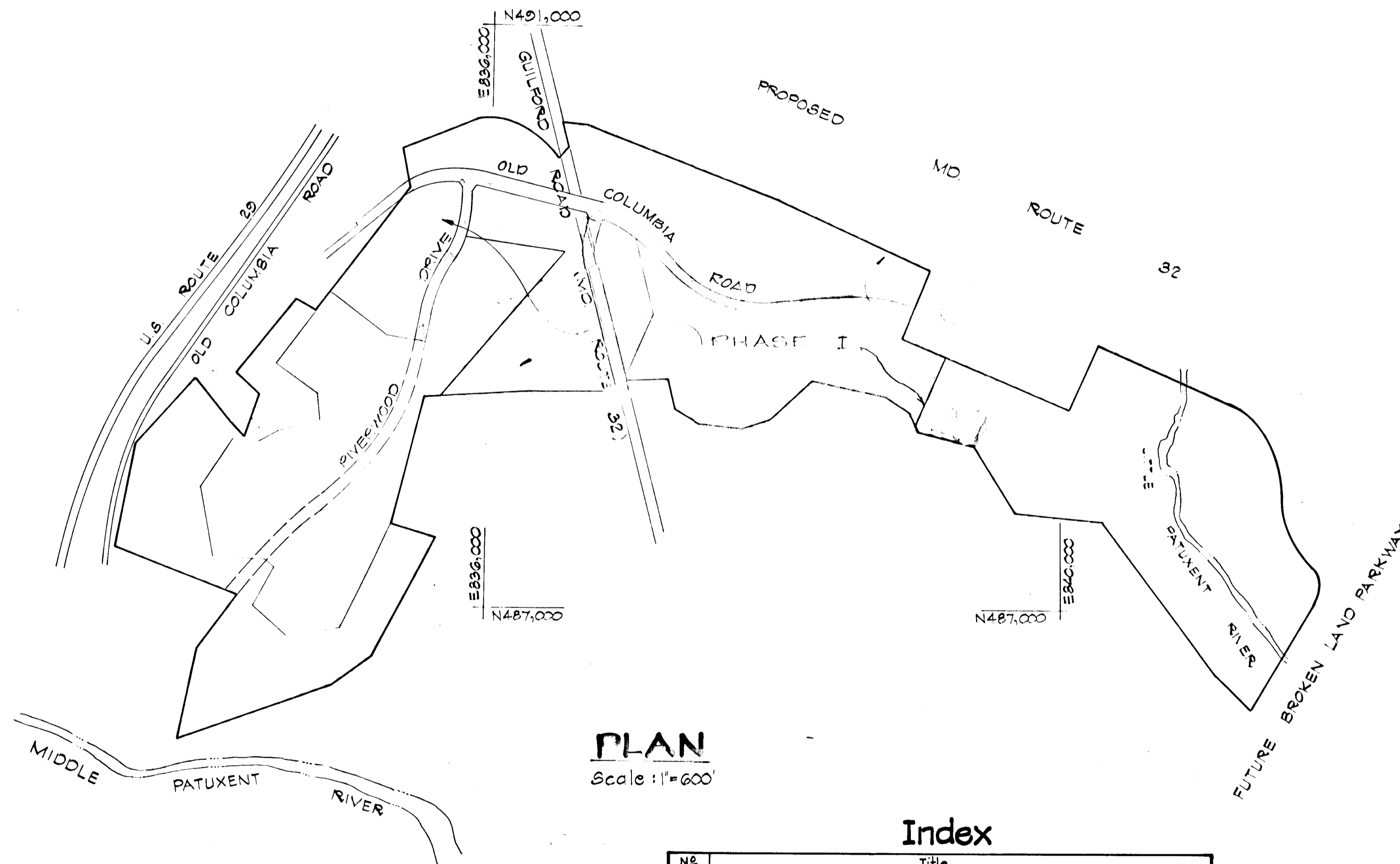
## HOWARD COUNTY, MARYLAND



VICINITY MAP  
Scale: 1" = 2000'

### GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV, "STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION".
- 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:
  - STATE HIGHWAY ADMINISTRATION ..... 531-5533
  - BALTO. GAS AND ELECTRIC CO. (Underground Gas Distribution) Customer Service ..... 685-0123
  - BALTO. GAS AND ELECTRIC CO. (Underground Gas Distribution) Customer Service ..... 685-0123
  - ENGINEERING "DAMAGE CONTROL" ..... 234-5621
  - "MISS UTILITY" ..... (1) 559-0100
  - CHESAPEAKE AND POTOMAC (C & P) TELEPHONE COMPANY ..... 725-9976
  - AMERICAN TELEPHONE AND TELEGRAPH Cable Location Division ..... 393-3553
  - COLONIAL PIPELINE COMPANY ..... 781-4641
  - BUREAU OF UTILITIES HOWARD COUNTY ..... 992-2366
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STDS., UNLESS OTHERWISE SHOWN.
- ALL STREET CURB RETURNS SHALL HAVE 40.0' 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 REVISED EDITION.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.  
ALL 80' RIGHT-OF-WAY 40 M.P.H., 60' RIGHT-OF-WAY, 35 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- SEDIMENT CONTROL SHALL BE AS SHOWN ON GP 82-02. SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED IN A FUNCTIONING CONDITION. ADDITIONAL SEDIMENT CONTROL MAY BE REQUIRED BY INSPECTOR IN FIELD.
- STORM WATER MANAGEMENT WILL BE PROVIDED ON INDIVIDUAL PARCELS.



### Index

NO	Title
1	Title Sheet
2	Detail Sheet
3	Old Columbia Road Plan & Profile - Sta. 80+57.38 to 84+25.10
4	--- -- -- -- -- Sta. 84+25.10 to 94+08.46
5	--- -- -- -- -- Sta. 94+08.46 to 105+07.32
6	Old Columbia Road Plan & Profile - Sta. 105+07.32 to 114+49.58
7	Guilford Road (Ex. Rte. 32) Plan & Profile
8	Storm Drain Plan - I-11 to 8-6
9	Riverwood Drive Plan & Profile
10	Guilford Road Plan & Profile - Sta. 81+08.08 to Sta. 11+33.04
11	Storm Drain Profiles
12	Storm Drain Profiles
13	Drainage Area Map
14	Drainage Area Map
15	Old Columbia Road Plan & Profile - Sta. 76+22.04 to 80+57.38

NO	Description	Elevation
2240001	Concrete Monument 16" x 8" of S. Edge Road	N 486199.360 E 830211.326 320.607
2340002-R	R.O. 1.5' W of W Edge Road 7' Below Surface	N 488880.177 E 836802.632 322.611

DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	Date
DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	Date
Date	No
Revision Description	

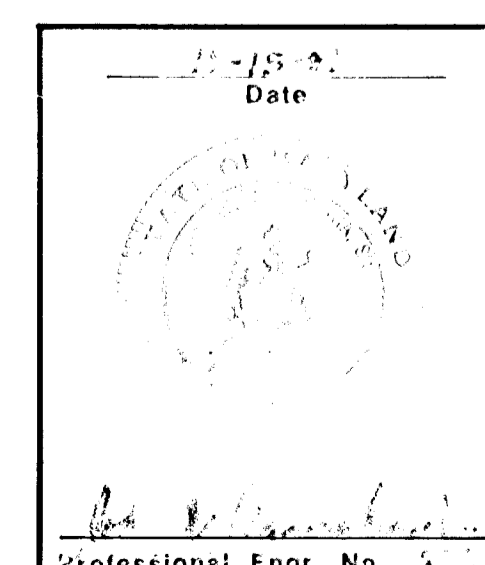
RIVERS CORPORATE PARK  
Section 1, Area 1, Phase I  
6th Election District - Howard County, Maryland  
Owner and Developer  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE COMPANY  
Columbia, Maryland

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

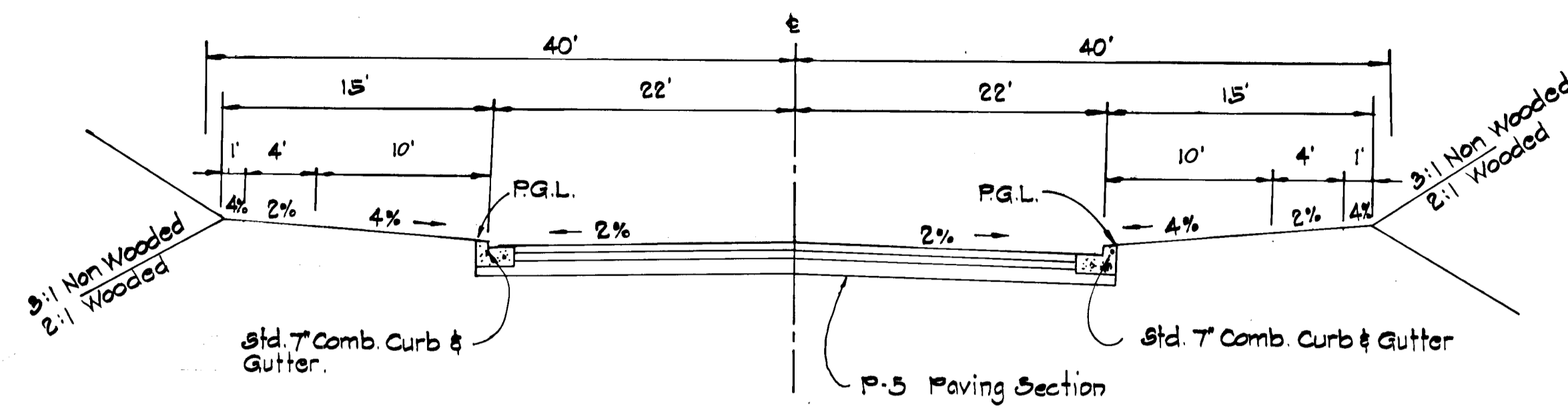
AREA TAX MAP 41 AND 42

TITLE SHEET

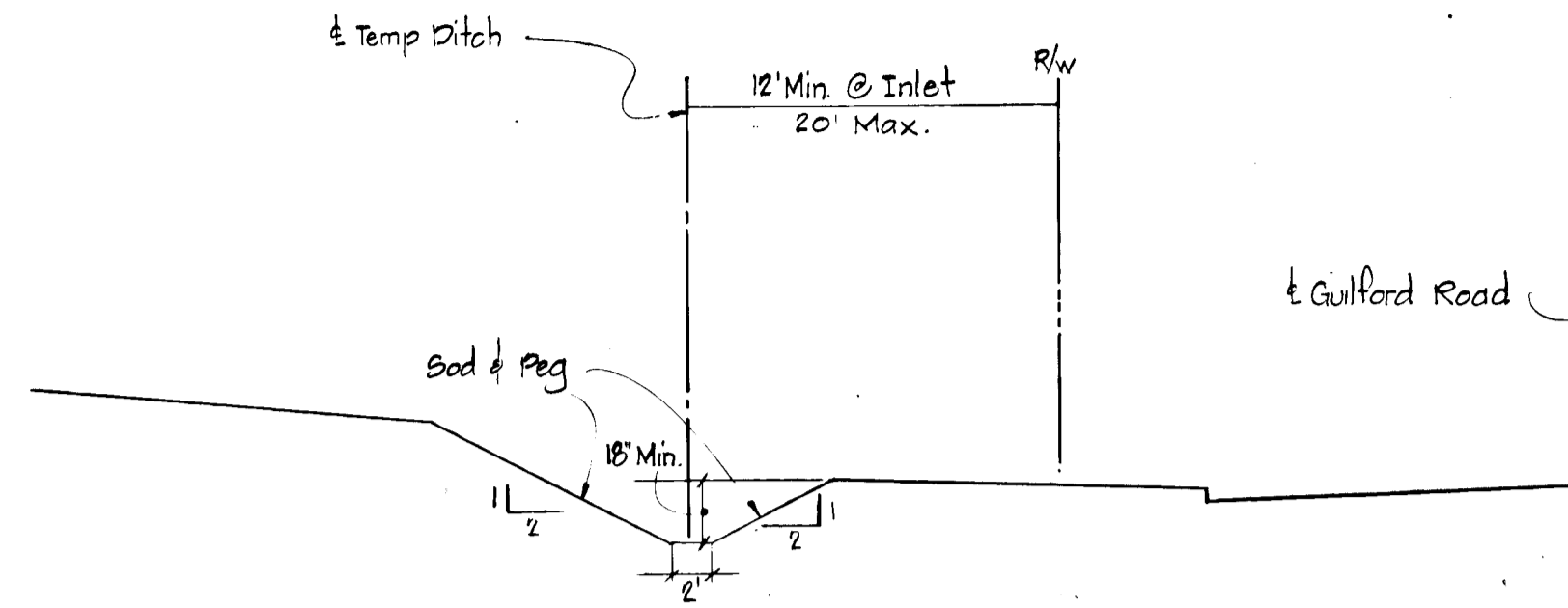
Des By G.R.K.	Scale 1" = 100'	Proj No. 0081
Drn By T.P.D.	Date 10/9/1981	Drawing No. 15
CHK By J.W.R.	Approved	Of 15



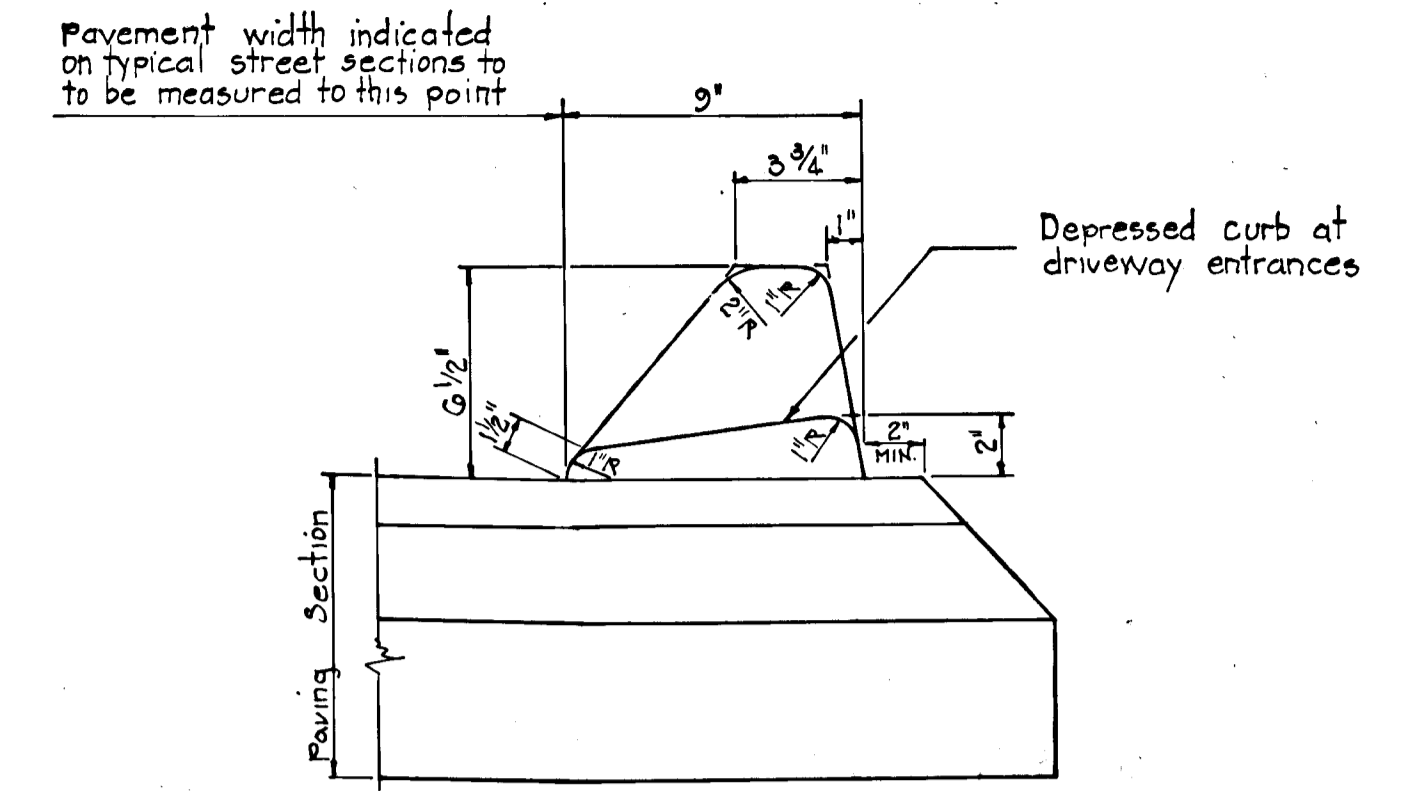
F-82-28c



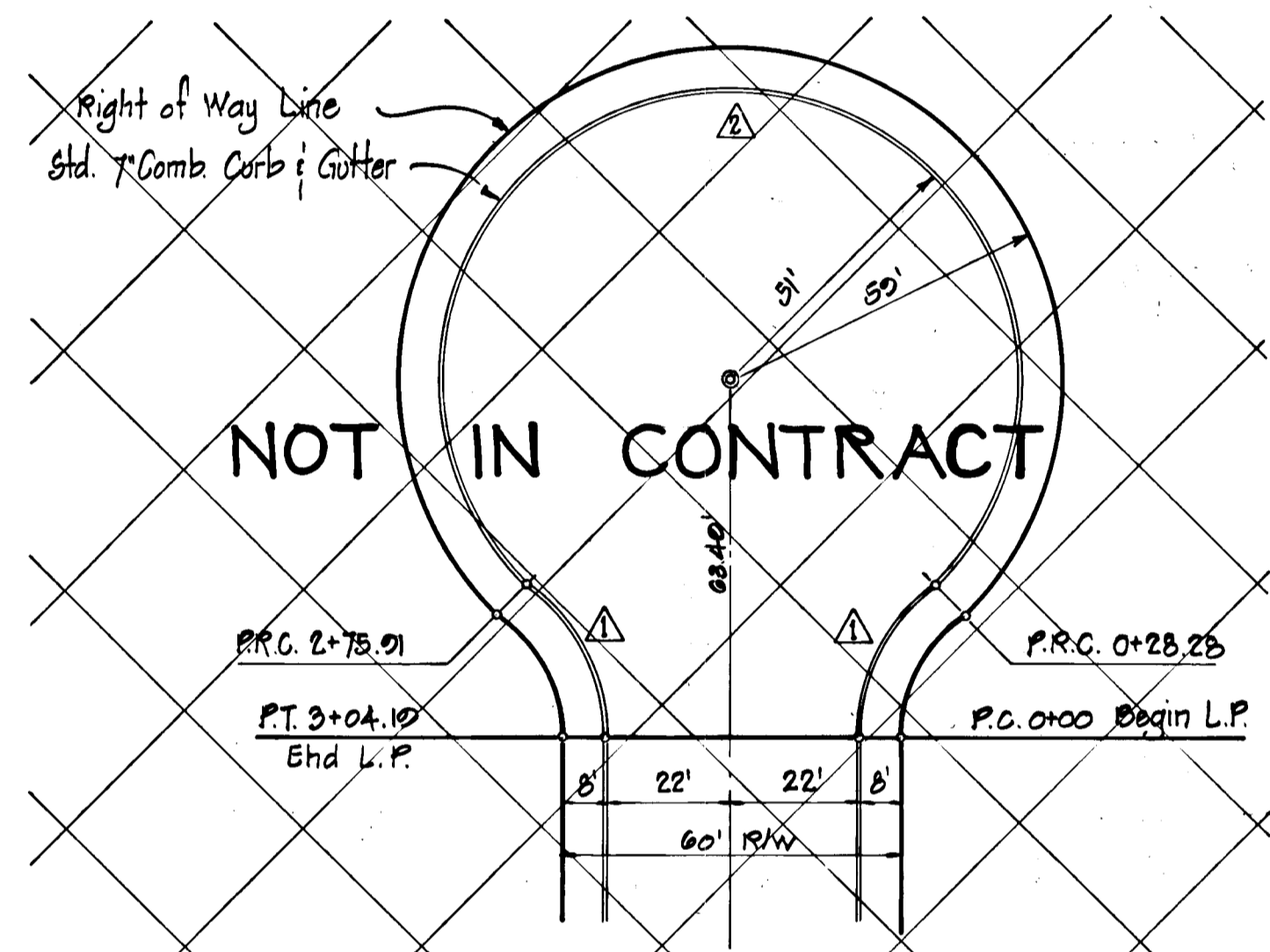
ZONING : NEW TOWN  
 Old Columbia Road (± Sta. 08+50.06 to ± Sta. 114+40.98±)  
**80' R/W SECTION**  
 DESIGN SPEED : 40 M.P.H.  
 NOT TO SCALE



**DITCH DETAIL**  
 of Inlets I-2A & I-3A

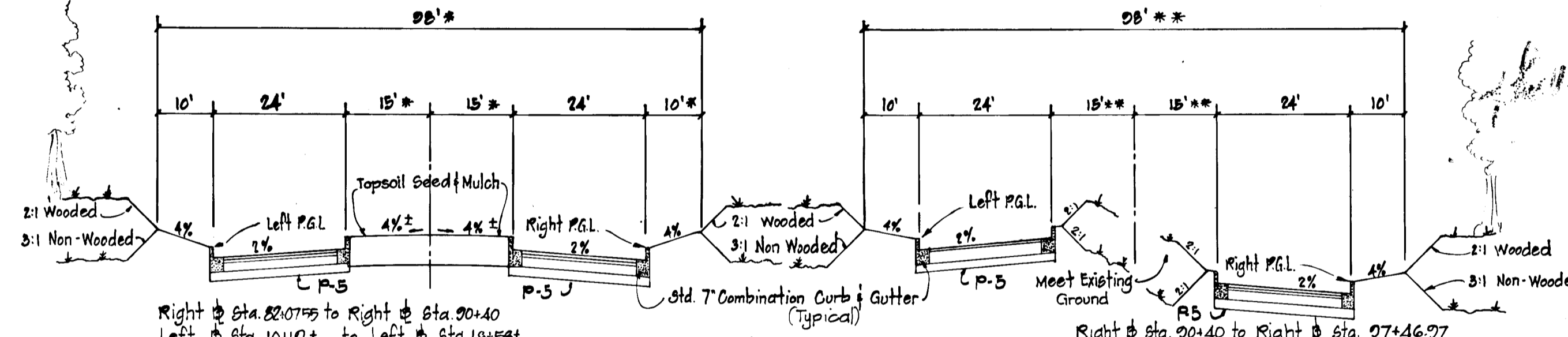


**STD. BITUMINOUS CURB**  
 NOT TO SCALE

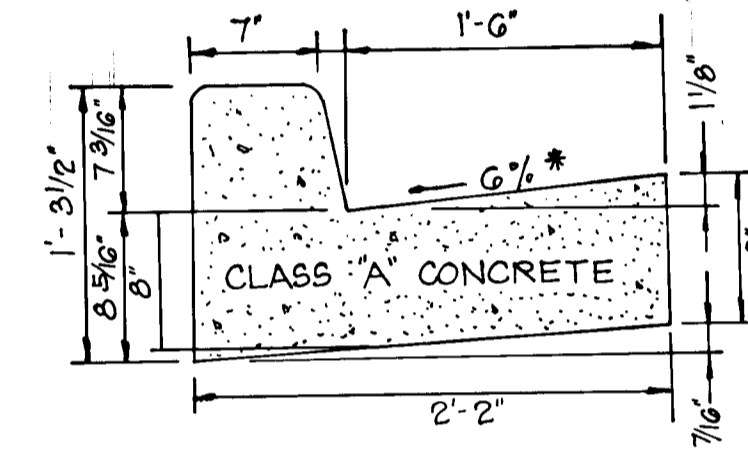


Curve	Radius	Length	Δ
1	23.00'	28.28'	40° 05' 54"
2	51.00'	247.63'	278° 11' 40"

**CUL-DE-SAC FOR A 60' R/W**  
 Scale : 1" = 20'



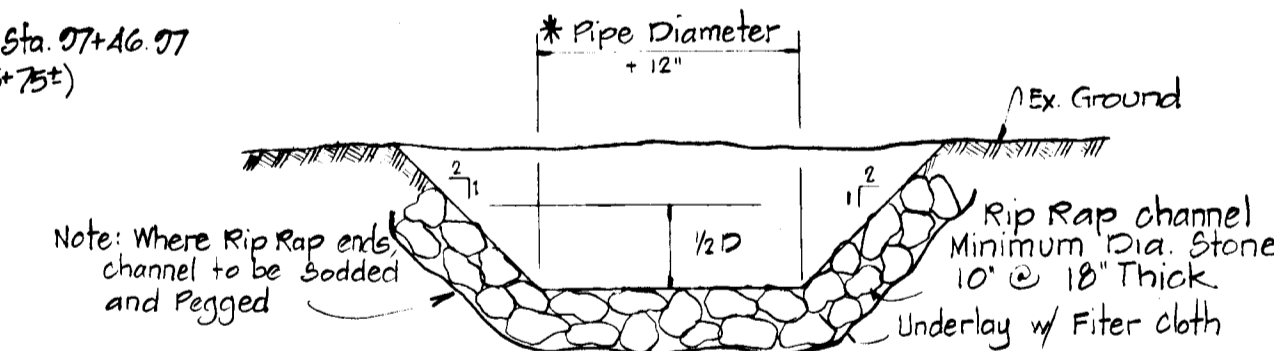
Zoned : New Town  
**BIFURCATED ROAD DETAILS**  
 Design Speed : 40 M.P.H.  
 \* Varies from Right of Sta. 22+07.55 to Right of Sta. 24+25.10 (From Left of Sta. 10+17± to Left of Sta. 12+40.05)  
 \*\* Varies from Right of Sta. 24+08.46 to Right of Sta. 27+46.07 (From Left of Sta. 22+37.05 to Left of Sta. 25+75±)



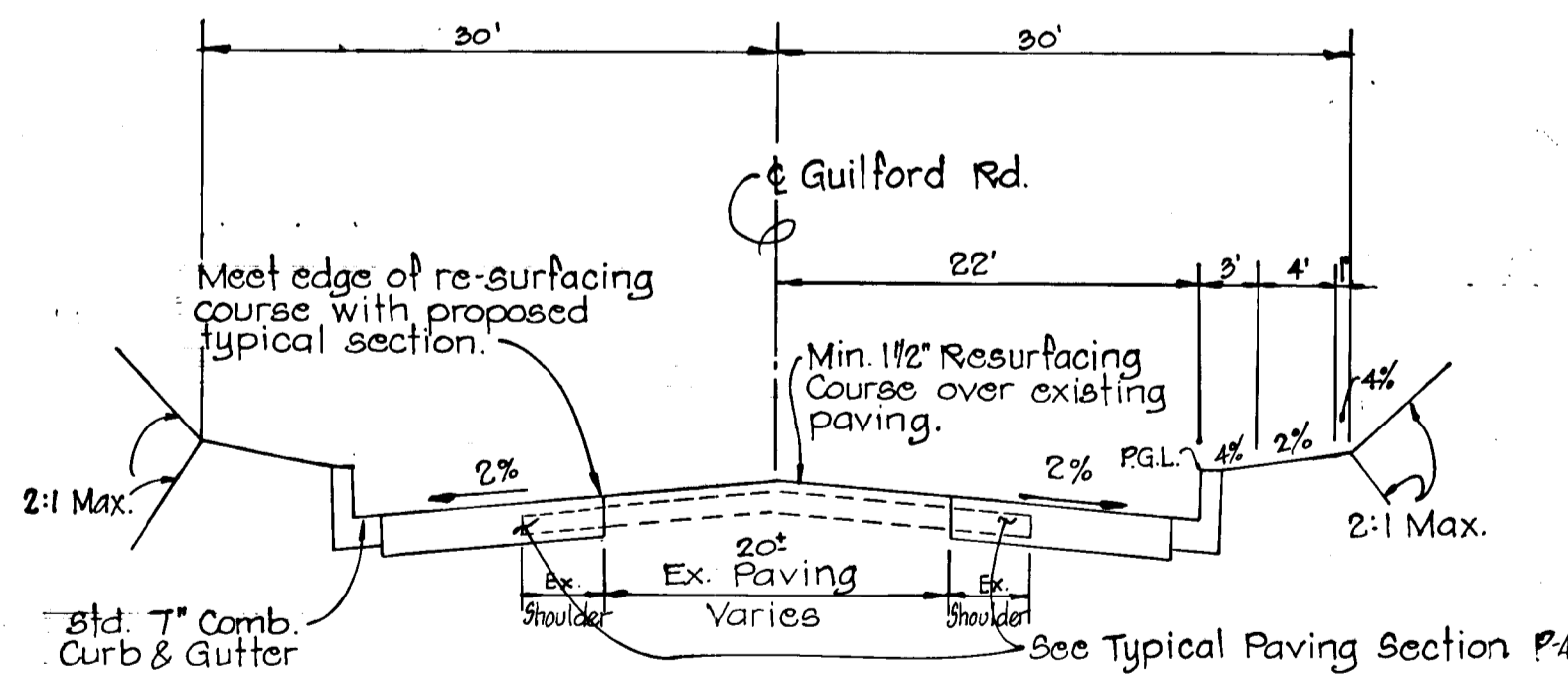
**STD. 7" COMB. CURB & GUTTER**  
 NOT TO SCALE

\* Gutter Pan at the median edge and the Southwest Intersection of Riverwood Drive and Old Columbia Road shall be sloped at the same rate and the same direction as the pavement.

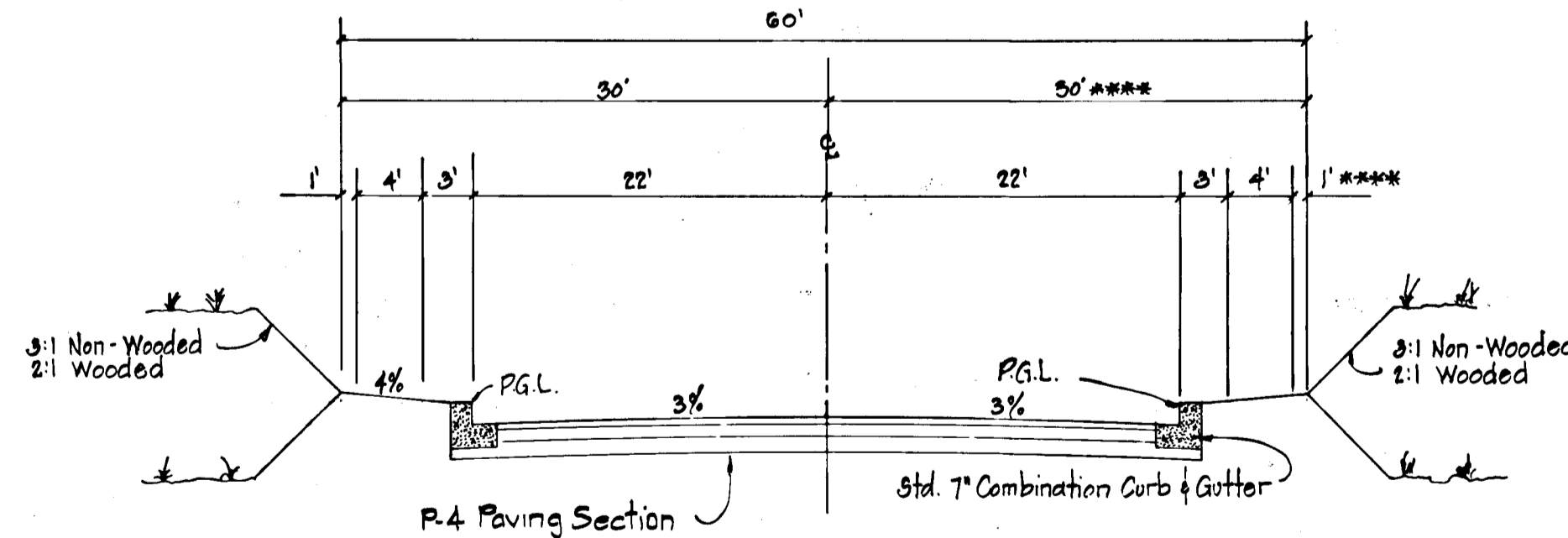
\* Where conc. or metal end section is used, bottom width of channel to be same size as flared outlet width of end section.



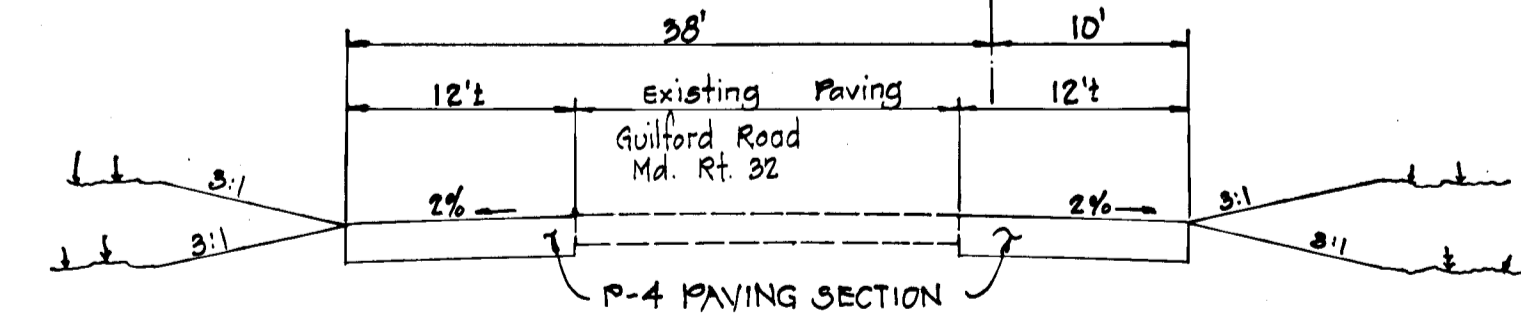
**RIP-RAP OUTFALL CHANNEL DETAIL**  
 No Scale



Zoned : New Town  
**MD. RTE. 32 ROAD WIDENING SECTION**  
 Not to Scale  
 From ± Sta. 1+00 Left of ± Sta. 1+25 Right to ± Sta. 8+06.66,

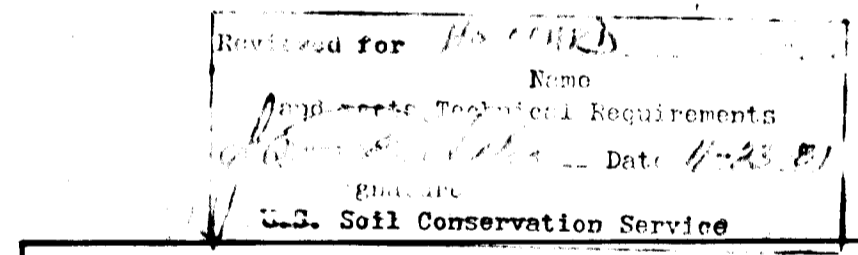
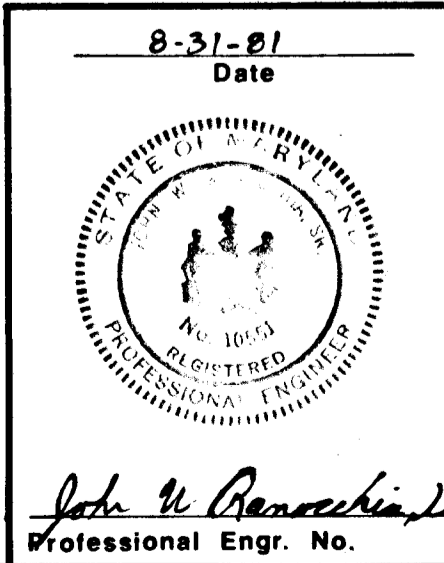


Zoned : New Town  
**60' R/W SECTION**  
 Design Speed : 35 M.P.H.  
 No Scale  
 Riverwood Drive : From ± Sta. 73+51.02 to ± Sta. 81+56.70  
 Old Columbia Road : From ± Sta. 77+00 to ± Sta. 80+57.38  
 Guilford Road : From ± Sta. 8+06.66 to ± Sta. 12+00  
 \*\*\* Varies on Old Columbia Road from 30' to 68'



**ACCELERATION - DECELERATION SECTION**  
 No Scale  
 Md. Rte. 32 From ± Sta. 13+30 to ± Sta. 17+78

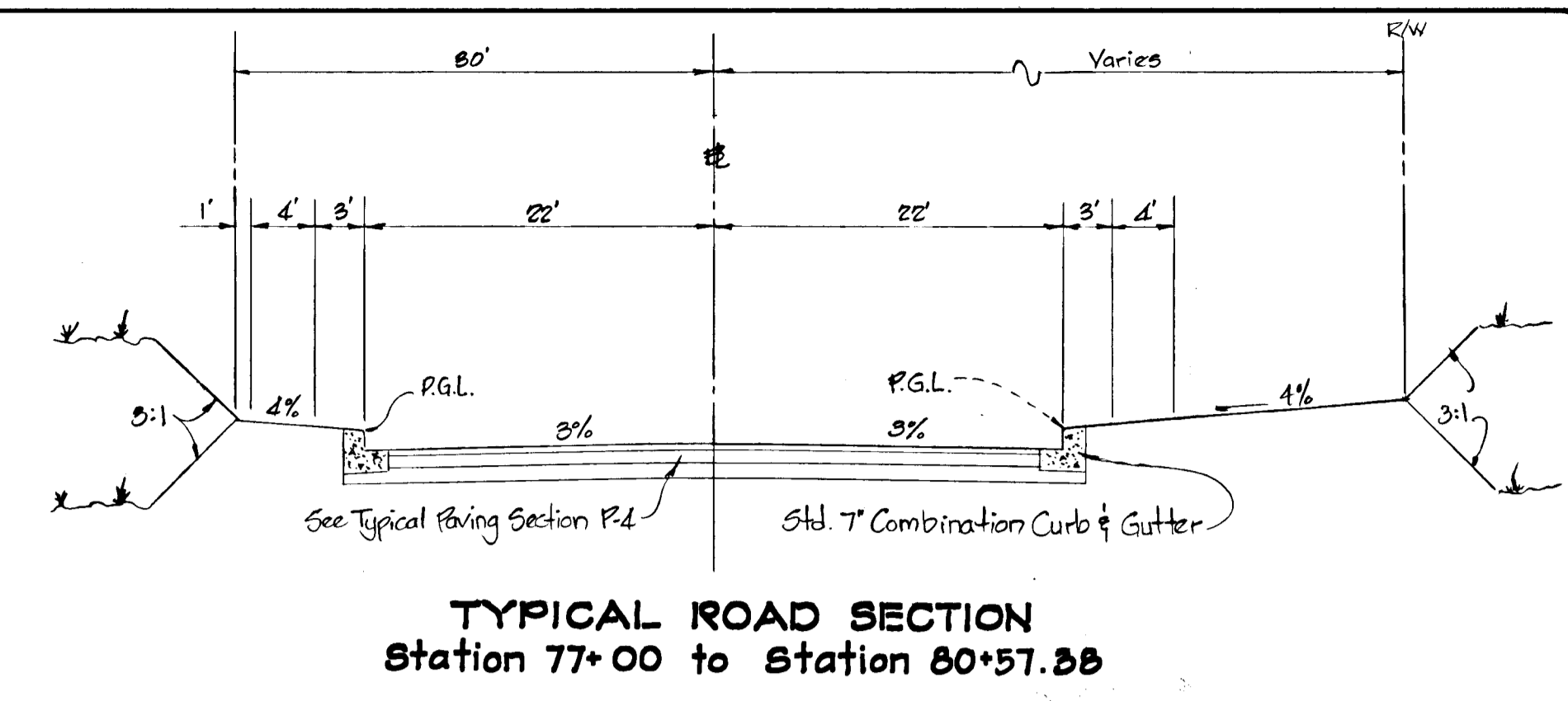
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: *Don House* Date: 11-20-81  
 Howard S. C. D.



DEPARTMENT OF PUBLIC WORKS		<i>Richard S. Ray</i> 12/15/81 Chief, Bureau of Engineering	
DEPARTMENT OF PLANNING AND ZONING		<i>John W. Rouse</i> 12-11-81 Chief, Div. of Land Develop. and Zoning Admin.	
Date	No	Revision Description	
RIVERS CORPORATE PARK Section 1, Area 1, Phase I 6th Election District Howard County, Maryland Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland			
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204			
AREA	TAX MAP 41 AND 42		
TITLE	DETAILS		
Des By	J.W.R.	Scale	AS SHOWN
Drn By	T.P.D.	Date	2/24/1981
Chk By	J.W.R.	Approved	
Proj No	0481		
Drawing No.	2 OF 15		

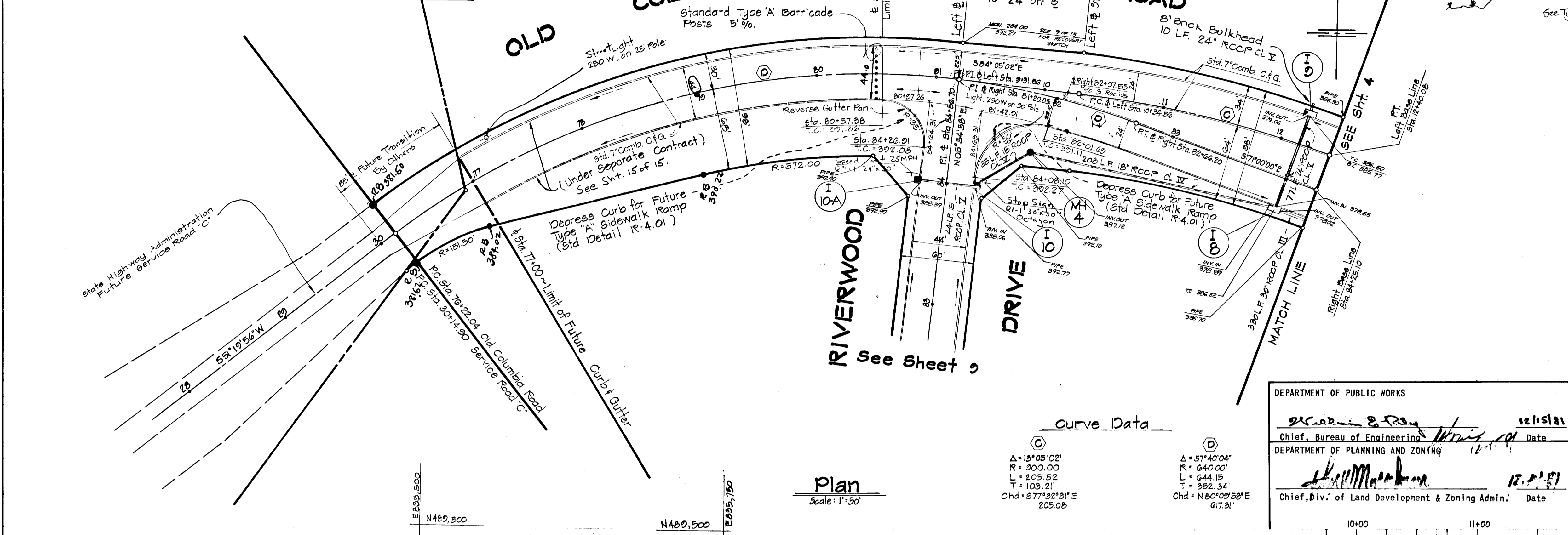
# 928

STRUCTURE SCHEDULE							
No.	TYPE	LOCATION			REMARKS		
		Road	Sta.	Offset	Top	Inv.	
I-8	A-10	Old Columbia Rd.	24' Rt.	386.65	378.24	SD-4.02	
I-9	A-10	"	24' Lt.	386.65	379.12	SD-4.02	
I-10	A-5	Riverwood Drive	84+00	10' Rt.	382.36	387.82	SD-4.01
I-10A	A-5	"	84+00	10' Lt.	382.36	388.29	SD-4.01
M-4	Type 'B' Manhole	Old Columbia Rd.	81+88	48' Rt.	382.33	387.07	SD-3.03



PLAN	DATE
BY	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY CHECKED	
NOTE BOOK NO.	

PROFILE	DATE
BY	
SURVEYED	
PLOTTED	
CHECKED	
S.M. NOTED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	



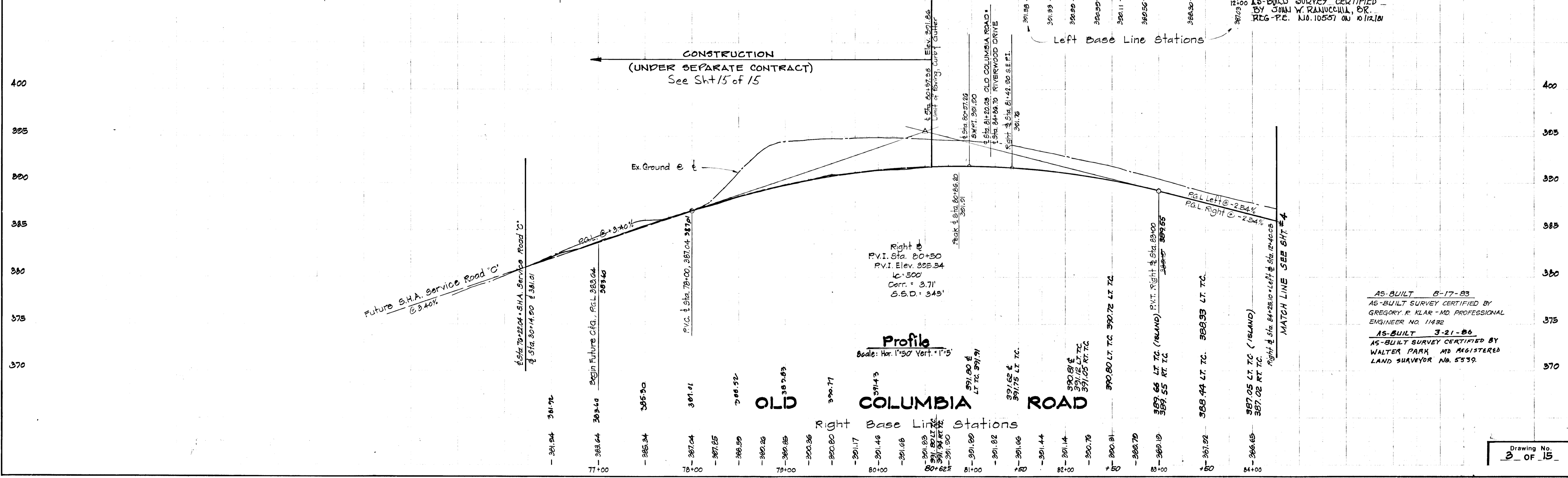
Curve Data

①	Δ = 18°05'02"	②	Δ = 57°40'04"
R = 300.00	R = 644.00'	L = 644.15'	L = 644.15'
T = 205.52'	T = 382.34'	Chd = N 60°09'58"E	Chd = N 60°09'58"E
Chd = S 77°32'31"E	Chd = N 60°09'58"E		
205.08'	617.31'		

DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 DEPARTMENT OF PLANNING AND ZONING  
 Chief, Div. of Land Development & Zoning Admin.

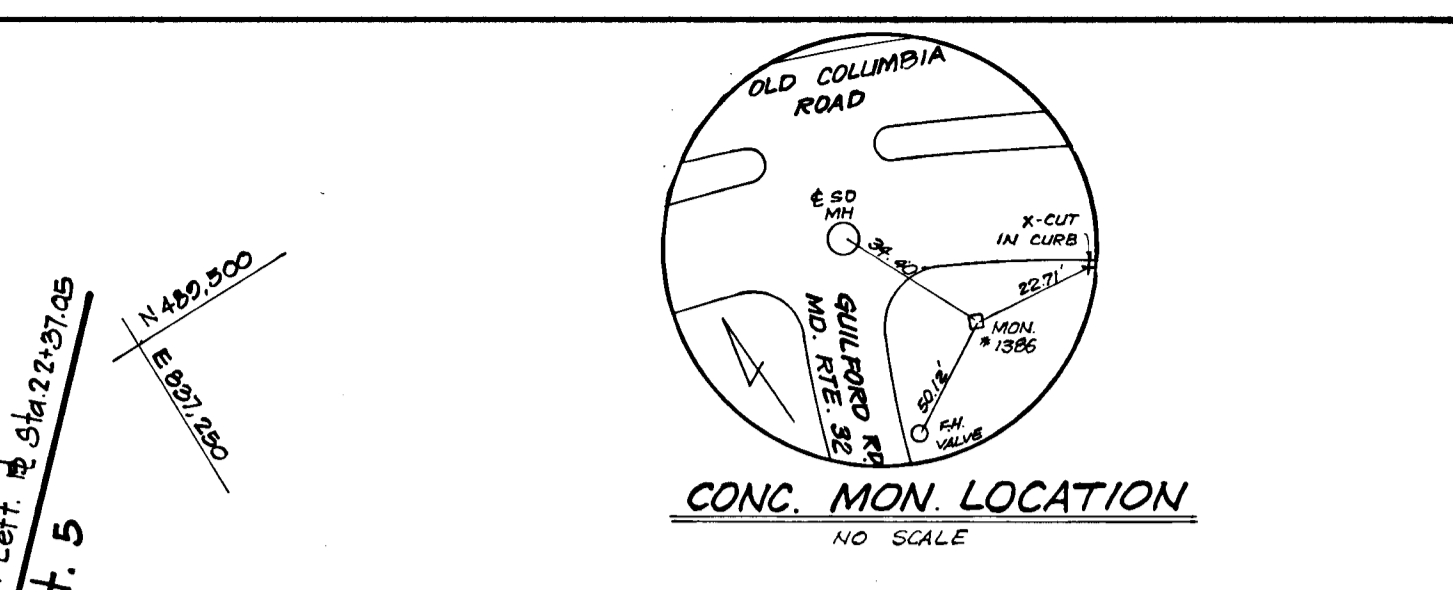
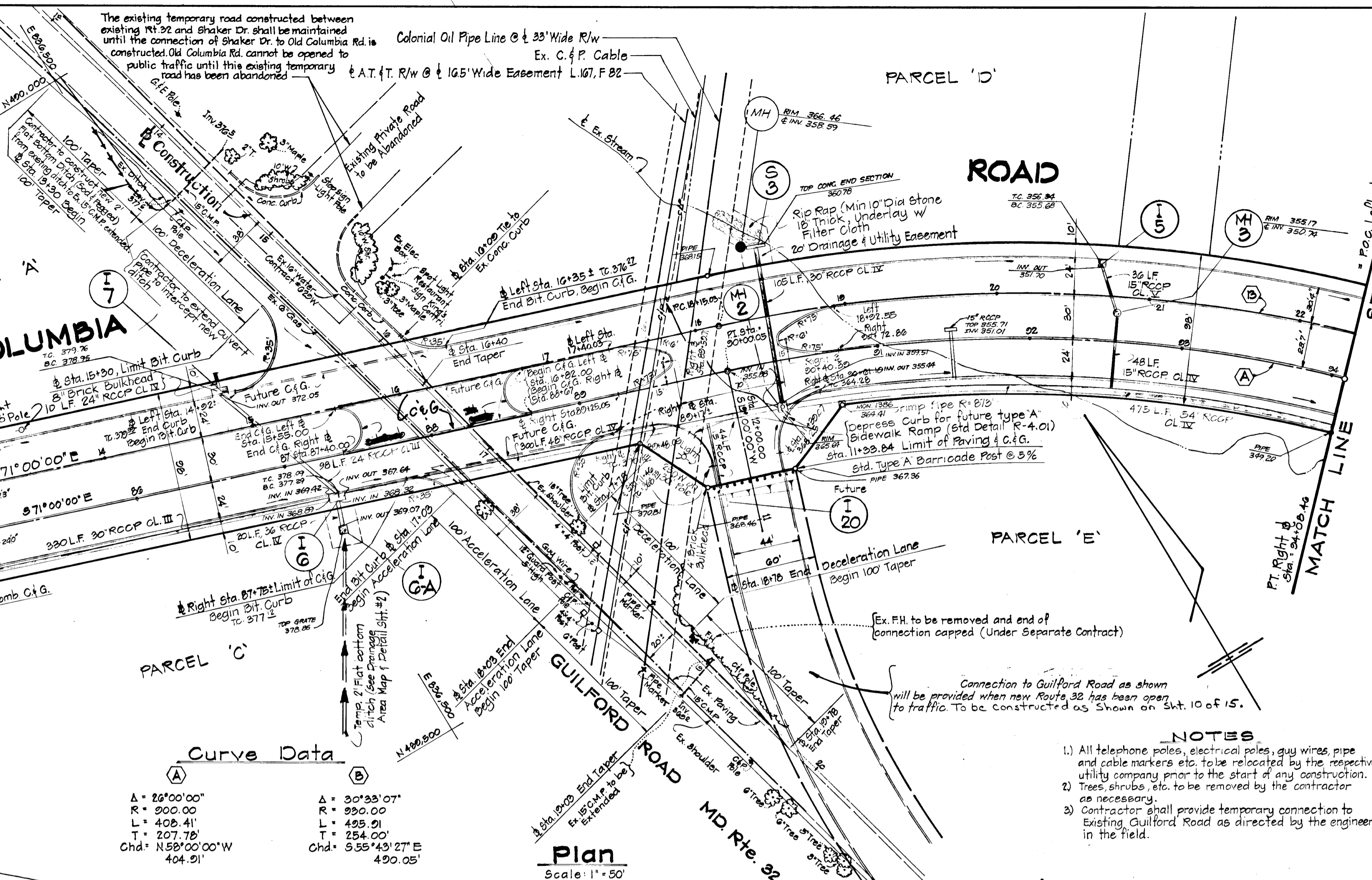
12-3-81  
 Date  
 Professional Engr. No. 10551  
 REG-PE. No. 10557 du 10/12/81

Date	No.	Revision Description
		RIVERS CORPORATE PARK Section 1, Area 1, Phase I 6th Election District - Howard County, Maryland
		Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland
		CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204
AREA	TAX MAP 41 AND 42 PARCELS 5, 29 AND 236	
TITLE	OLD COLUMBIA ROAD PLAN & PROFILE	
Des By	G.R.K.	Scale AS SHOWN
Drn By	J.D.C.	Date 12/4/81
Chk By	J.W.R.	Approved
Proj No	0481	



AS-BUILT 8-17-83  
 AS-BUILT SURVEY CERTIFIED BY  
 GREGORY R. KLAR - MD PROFESSIONAL  
 ENGINEER NO. 11432  
 AS-BUILT 3-21-86  
 AS-BUILT SURVEY CERTIFIED BY  
 WALTER PARK MD REGISTERED  
 LAND SURVEYOR NO. 5539

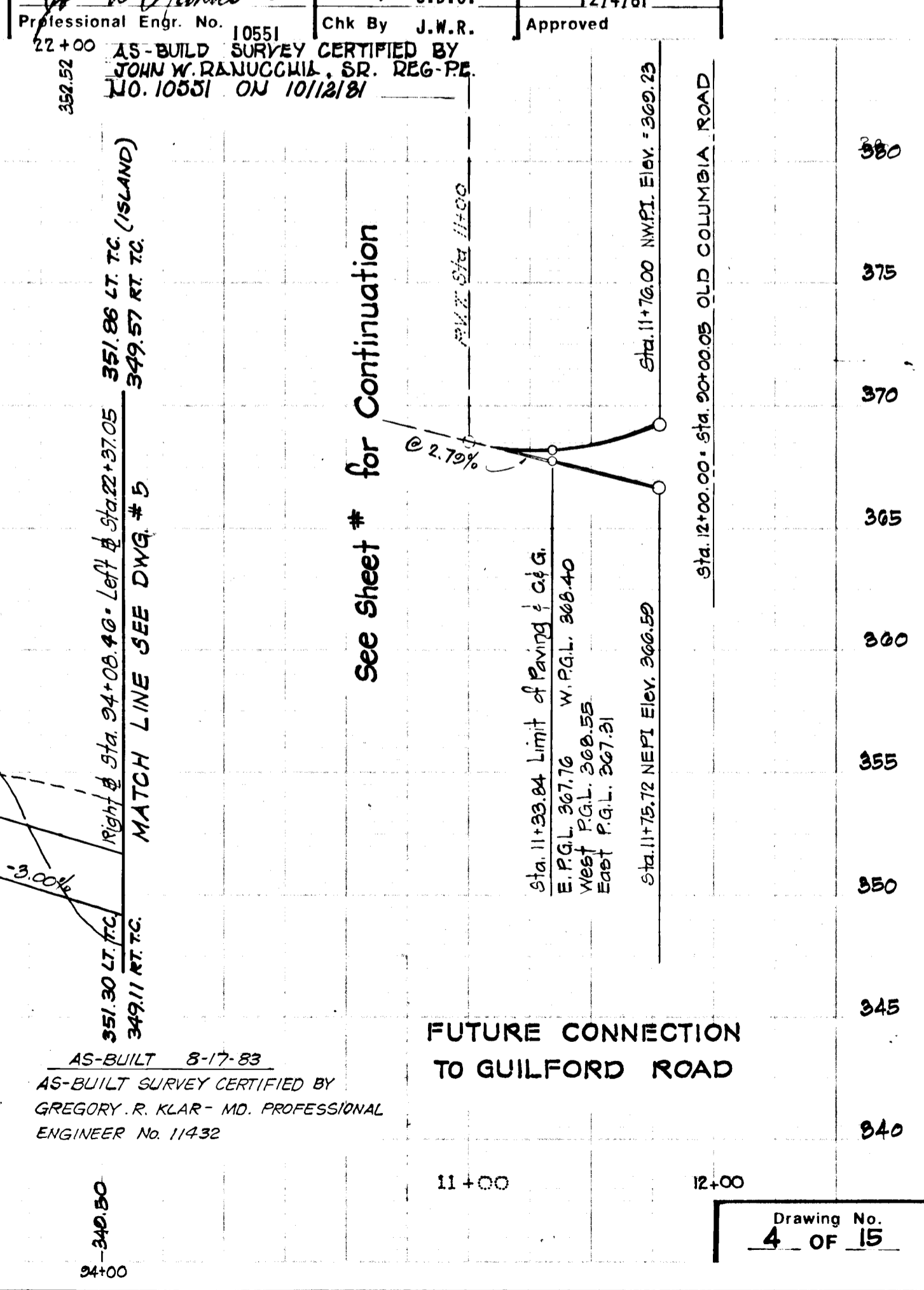
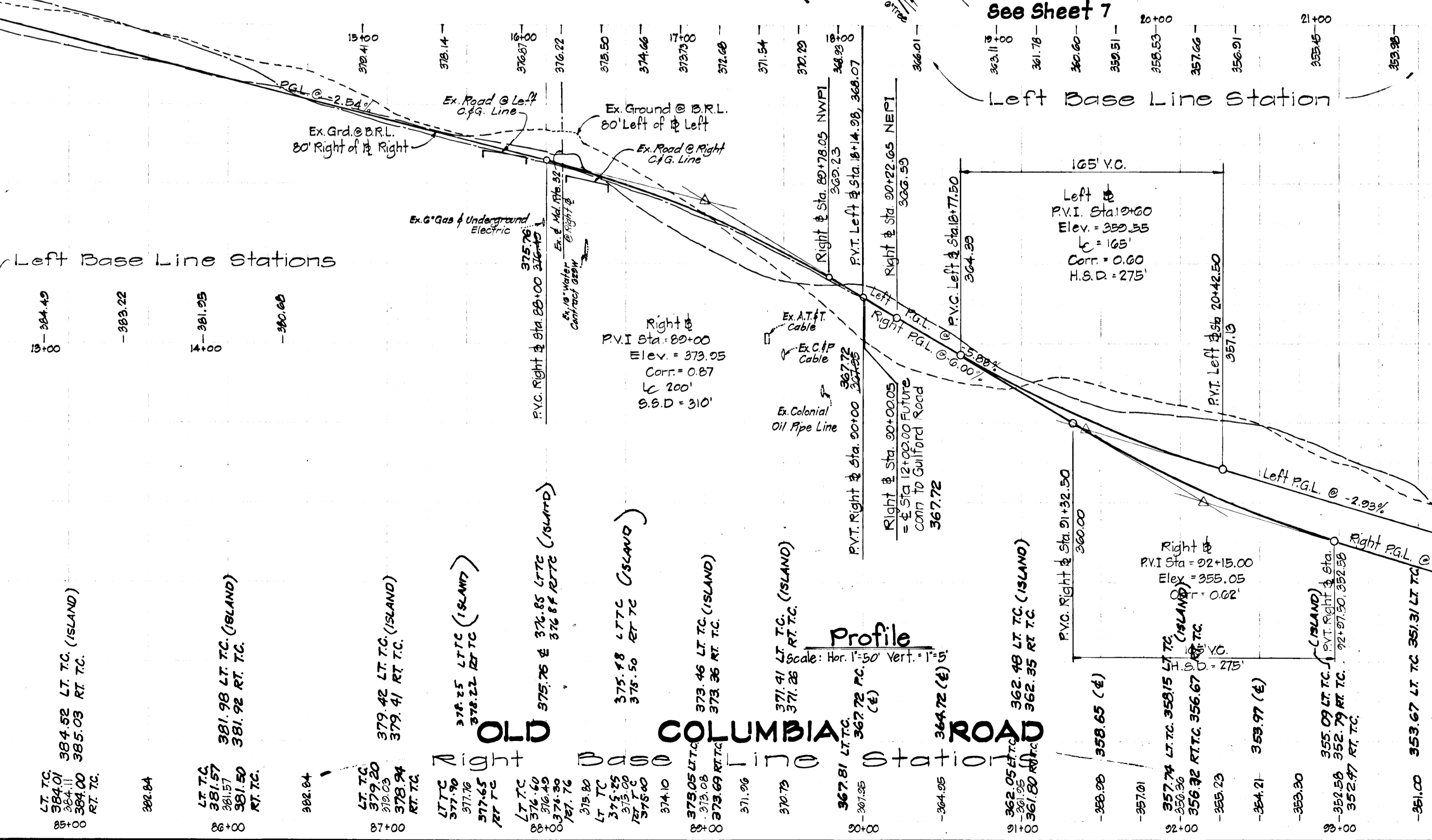
STRUCTURE SCHEDULE							
No	TYPE	LOCATION	Sta	Offset	Top	Inv.	REMARKS
I-5	A-10 (2.5' Wide)	Old Columbia Road	24' Lt	356.42	351.74	SD - 4.02	
I-6	A-10 (3.5' Wide)	"	24' Rt	378.27	367.84	SD - 4.02	
I-6A	K Inlet	"	44' Rt	-	368.90	SD - 4.12	
I-7	A-10 (5.5' Wide)	"	24' Lt	378.82	362.99	SD - 4.02	
MH-2	Type 'O' Manhole	"	27' Rt	365.63	351.14	SD - 3.04	
MH-9	Type 'B' Manhole	"	5' Rt	355.25	350.82	SD - 3.03	
S-3	Type 'C' Endwall	Old Columbia Road	48' Lt	-	350.00	SD - 5.21	



DEPARTMENT OF PUBLIC WORKS	
Chief, Bureau of Engineering	Date
DEPARTMENT OF PLANNING AND ZONING	
Chief, Div. of Land Development & Zoning Adm.	Date
Date	No
Revision Description	
RIVERS CORPORATE PARK Section 1, Area I, Phase I 6th Election District - Howard County, Maryland	
Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland	
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204	
AREA	TAX MAP 41 AND 42 PARCELS 5, 29 AND 236
TITLE OLD COLUMBIA ROAD PLAN & PROFILE	
Des By G.R.K.	Scale AS SHOWN
Drn By J.D.C.	Date 12/4/81
Chk By J.W.R.	Approved
Professional Engr. No. 10551	Proj No 0481

BY	DATE

BY	DATE



BRUNING 44-132 28586

Structure Schedule

No	Type	Location		Top	Inv.	Remarks	
		Road	Sta.				
I-11	A-10 w/Defl. (2.5' Wide)	Old Columbia Rd.	25+72.3	24' Left	339.20	339.25	SD - 4.02
I-12	A-5 (2.5' Wide)	"	105+32.1	22' Right	325.37	317.88	SD - 4.01
I-13	A-5 (3' Wide) w/Defl.	"	105+32.1	22' Left	325.32	318.57	SD - 4.01
I-14	A-10 (3' Wide)	"	102+15	22' Left	330.09	325.00	SD - 4.02
I-15	A-10 (2.5' Wide)	"	102+15	22' Right	330.09	326.47	SD - 4.02
S-7	Concrete End Section	"	105+59	34' Right	-	317.40	SD - 5.31
S-8	Concrete End Section	Old Columbia Rd.	105+31	40' Left	-	318.90	SD - 5.31

DEPARTMENT OF PUBLIC WORKS

*W. E. Rose*  
 Chief, Bureau of Engineering  
 Date: 12-15-81

DEPARTMENT OF PLANNING AND ZONING  
*[Signature]*  
 Chief, Div. of Land Develop. and Zoning Admin.  
 Date: 12-17-81

Date	No	Revision Description
2/16/82	1	Rewrite Structure Schedule Inverts

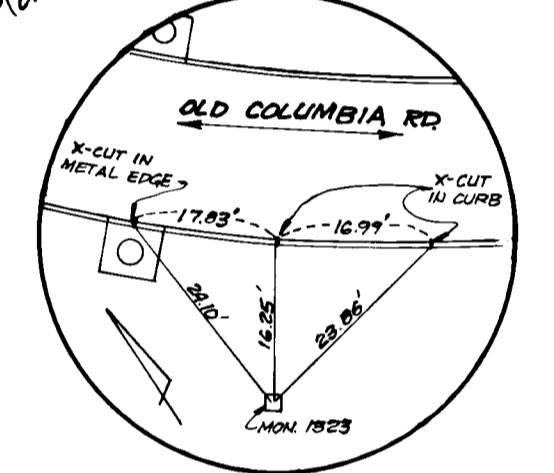
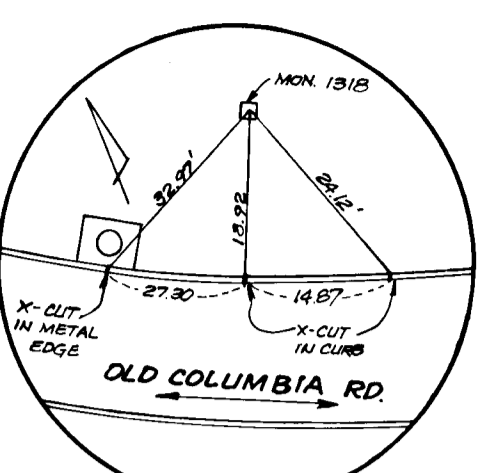
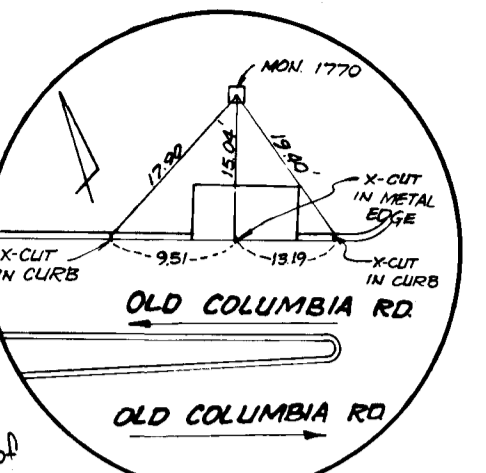
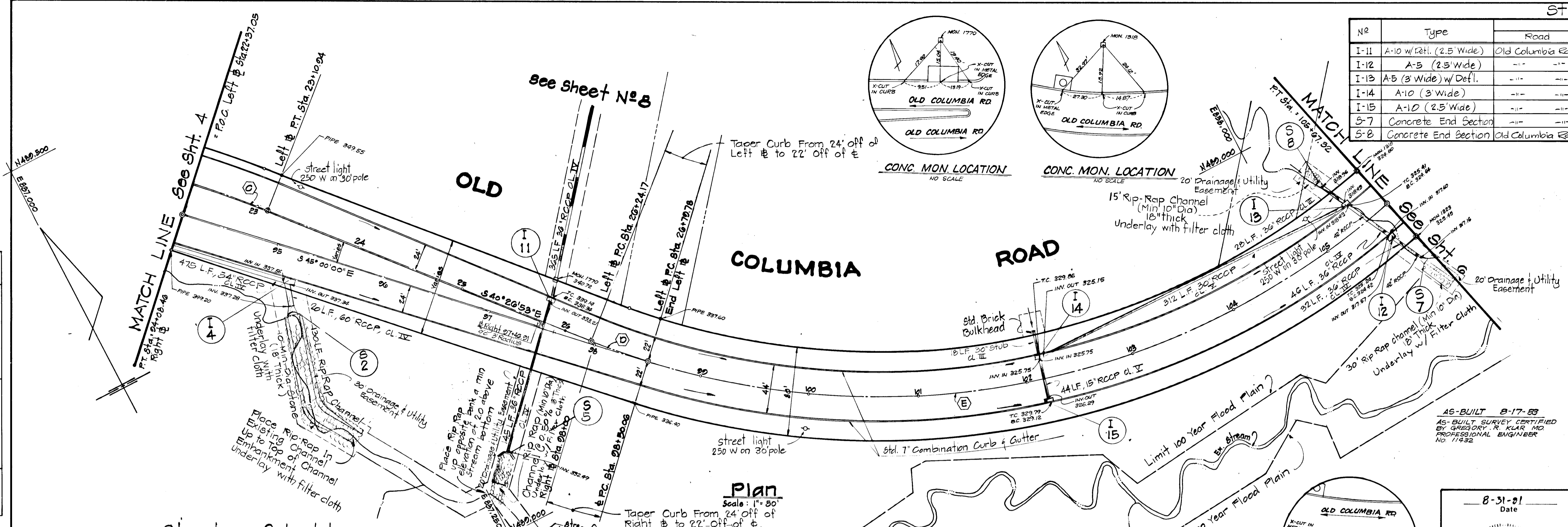
RIVERS CORPORATE PARK  
 Section 1, Area, 1, Phase I  
 6th Election District - Howard County, Maryland  
 Owner and Developer  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 Columbia, Maryland

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

AREA TAX MAP 41 AND 42  
 PARCELS 5, 29 AND 236

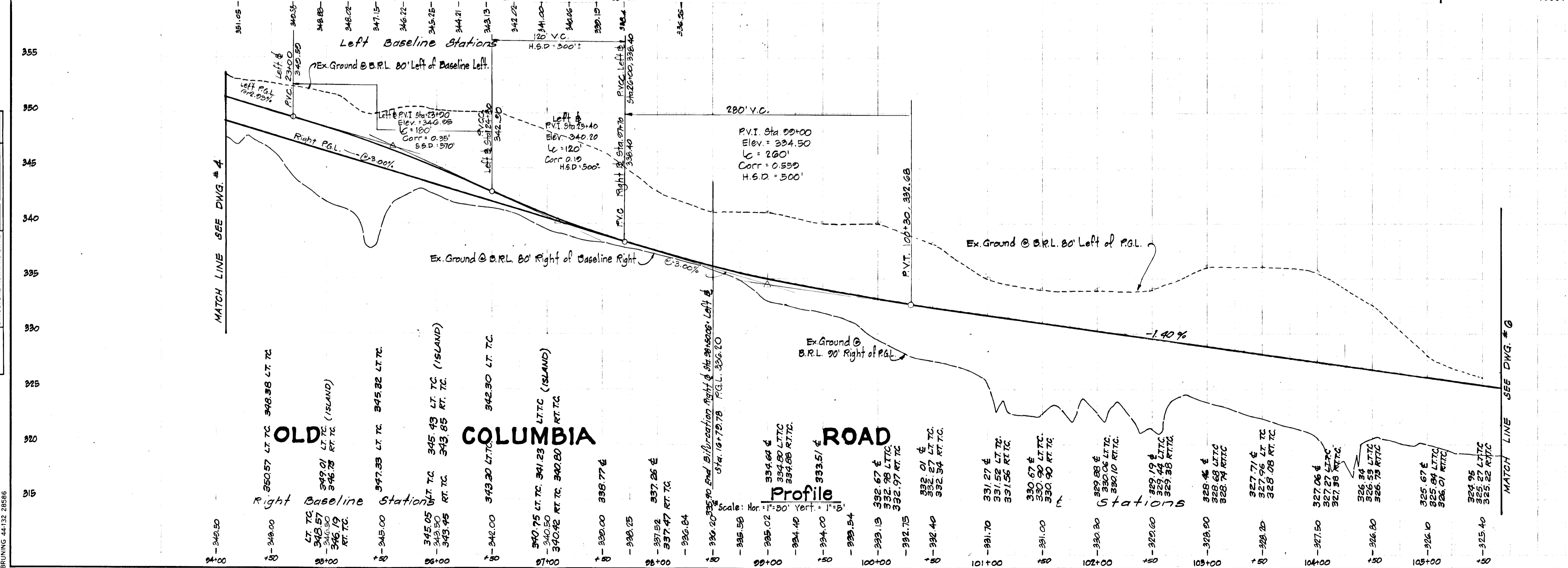
TITLE  
**OLD COLUMBIA ROAD  
 PLAN & PROFILE**

Des By	G. R. K.	Scale	AS SHOWN	Proj No	0481
Drn By	J. D. C.	Date	6/30/81		
Chk By	J. W. R.	Approved			



Structure Schedule

N	Type	Road	Location	Sta.	Offset	Top	Inv.	Remarks
S-5	Concrete End Section	Old Columbia Rd.	Right	115			332.53	SD - 5.51
S-2	Concrete End Section	Old Columbia Rd.	Right	50			337.43	SD - 5.51
I-4	A-10 (5.5' Wide)	Old Columbia Rd.	Right	24		345.90	337.53	SD - 4.02



PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
NOTE BOOK		
NO.		

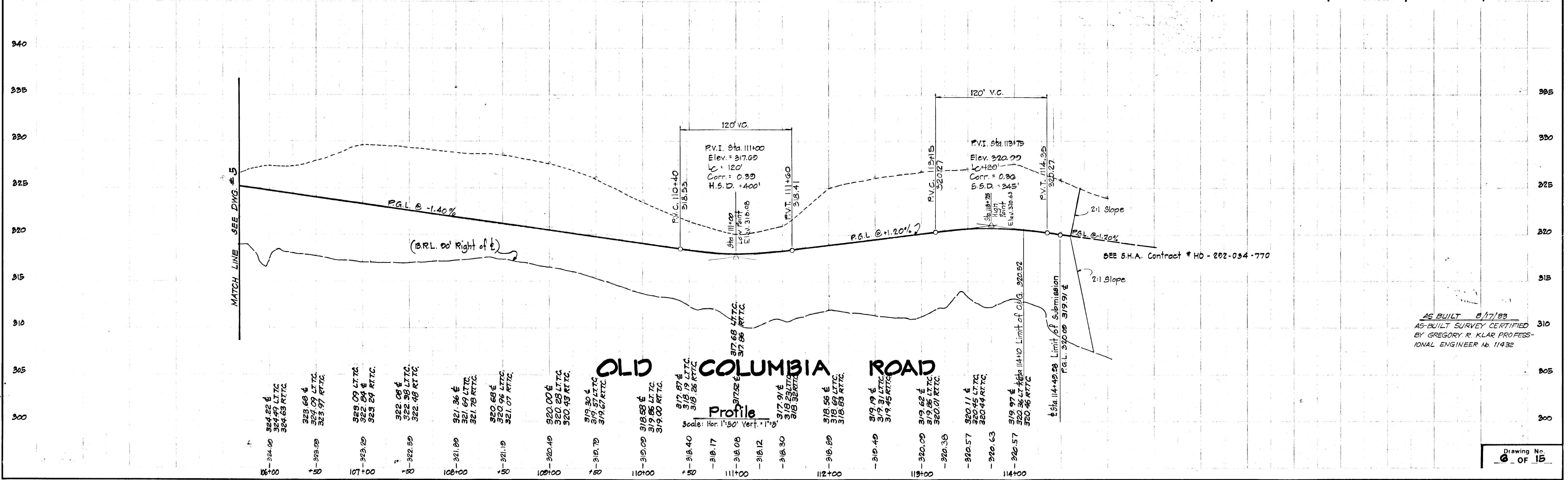
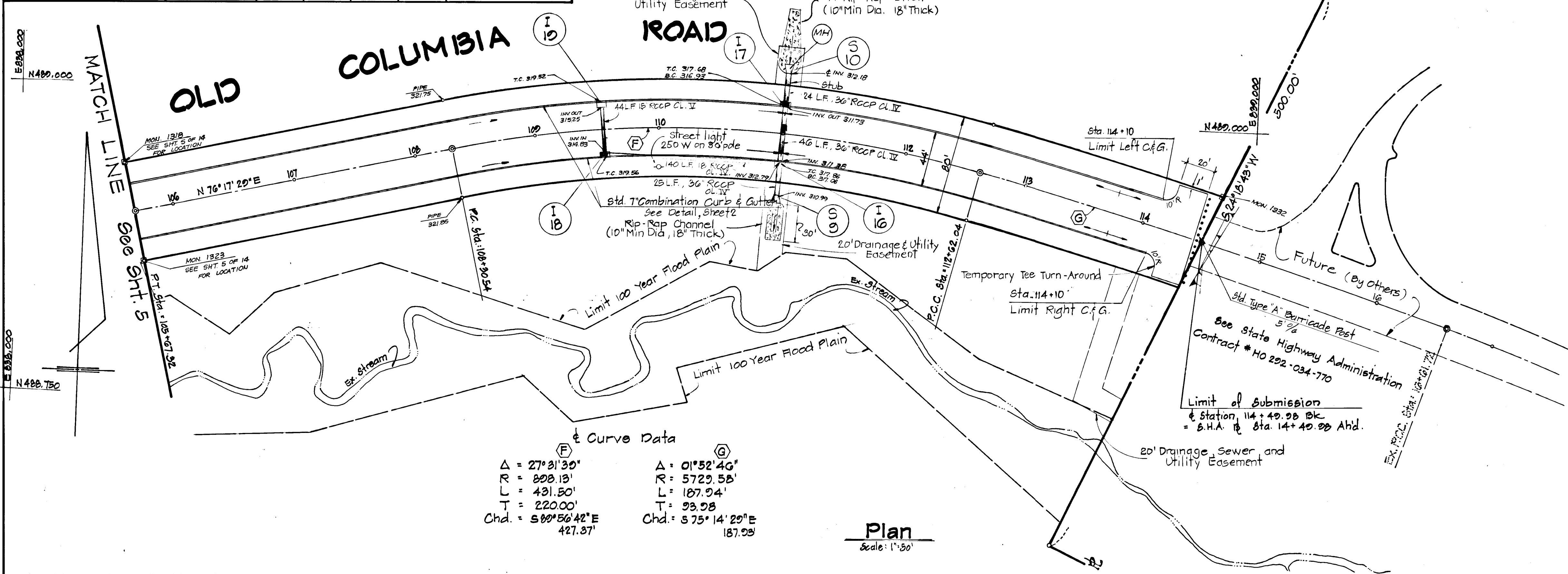
PROFILE	DATE	BY
SURVEYED		
GRADES		
CHECKED		
NOTE BOOK		
NO.		

Structure Schedule

No	Type	Location				Remarks
		Road	Sta	Offset	Inv.	
I-16	A-B (2.5' Wide)	Old Columbia Rd.	111+00	22' Rt.	318.08	SD-4.01
I-17	A-5 (2.5' Wide)	"	"	22' Lt.	318.08	"
I-18	A-B (2.5' Wide)	"	109+55	22' Rt.	319.72	SD-4.01
I-19	A-10 (2.5' Wide)	"	"	22' Lt.	319.72	SD-4.02
S-9	Concrete End Section	Old Columbia Rd.	111+00	48' Rt.	311.25	SD-5.51
S-10	"	"	111+00	51' Lt.	312.20	"

PLAN	DATE
BY	
DATE	
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PROFILE	DATE
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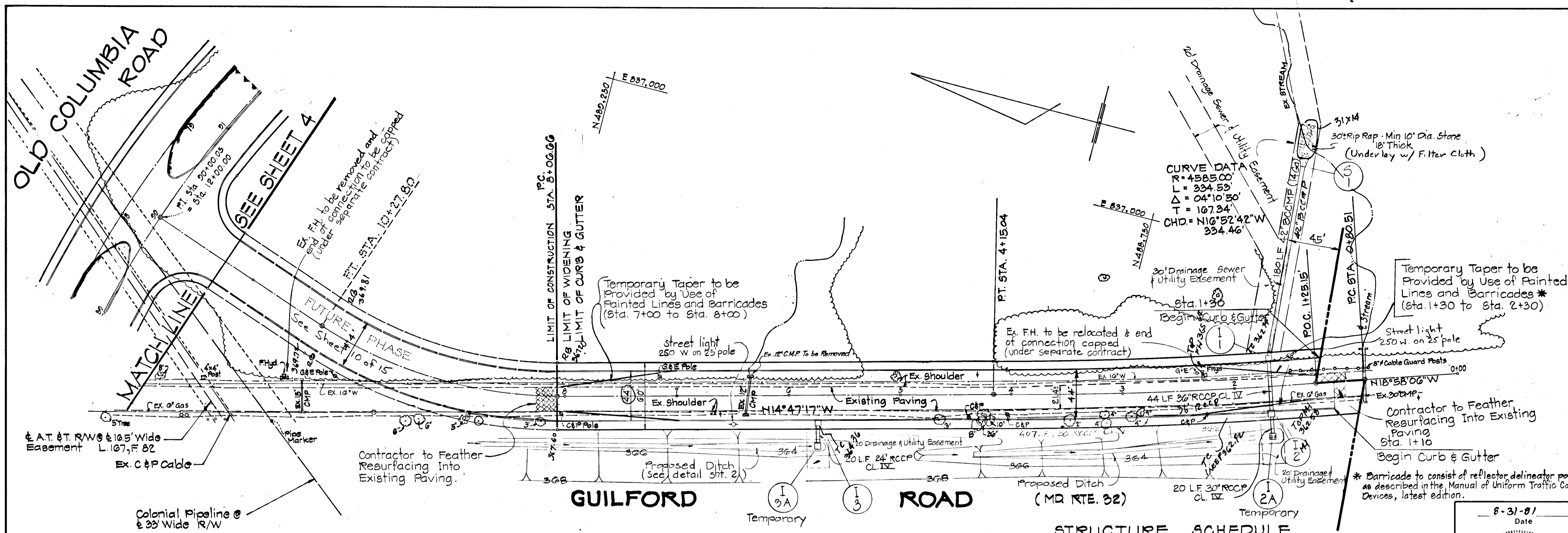
DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 DEPARTMENT OF PLANNING AND ZONING  
 Chief, Div. of Land Develop. and Zoning Admin.  
 RIVERS CORPORATE PARK  
 Section 1, Area 1, Phase I  
 6th Election District - Howard County, Maryland  
 Owner and Developer  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 Columbia, Maryland  
 CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS - PLANNERS  
 TOWSON, MARYLAND 21204  
 AREA: TAX MAP 41 AND 42 PARCELS 5, 29 AND 236  
 TITLE: OLD COLUMBIA ROAD PLAN & PROFILE  
 Des By G.R.K. Scale AS SHOWN Proj No 0481  
 Drn By J.D.C. Date 6/30/81  
 Chk By J.W.R. Approved

8-31-81  
 Date  
 Professional Engr. No. 10551

AS BUILT 8/17/83  
 AS-BUILT SURVEY CERTIFIED  
 BY GREGORY R. KLAR PROFESSIONAL ENGINEER No. 11432

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	

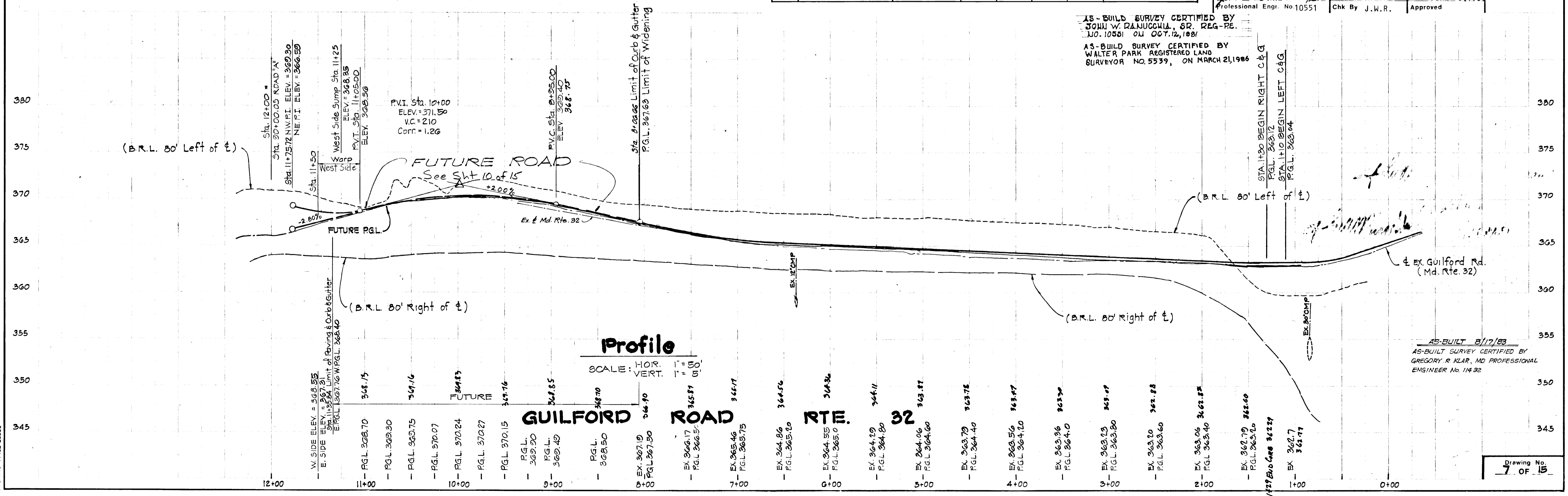


Note: All telephone poles, electrical poles, guy wires, pipe and cable markers, etc., to be relocated by the respective utility company prior to start of any construction.  
Trees, shrubs, etc., to be removed by the contractor as necessary.

Plan  
SCALE: 1" = 50'

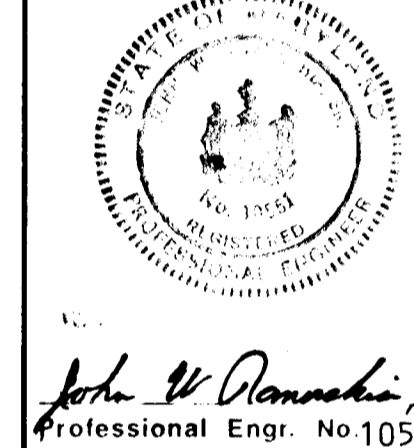
No.	Type	Location			Remarks
		Road	Sta.	Offset	
I-1	A-5 (25' Wide)	Guilford Road	1+68	22' Right	350.88 ± SD - 4.01
I-2	A-5 (30' Wide)	"	1+68	22' Left	353.27 352.76 SD - 4.01
I-3	A-5 (30' Wide)	"	3+71	22' Left	364.00 359.34 SD - 4.01
S-1	Metal End Section	Guilford Road	1+25	19'4" Right	- 342.60 SD - 3.61 ± 5.62
I-2A	Type "K"	"	1+68	45' Left	361.25 356.16 SD - 4.12
I-3A	Type "K"	"	3+71	45' Left	364.25 360.04 SD - 4.12

DEPARTMENT OF PUBLIC WORKS  
*William E. ...* 12/11/81  
 Chief, Bureau of Engineering  
 DEPARTMENT OF PLANNING AND ZONING  
*John M. ...* 12/11/81  
 Chief, Div. of Land Development and Zoning  
 Date No Revision Description  
 RIVERS CORPORATE PARK  
 Section 1, Area 1, Phase I  
 6th Election District - Howard County, Maryland  
 Owner and Developer  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 Columbia, Maryland  
 CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS - PLANNERS  
 TOWSON, MARYLAND 21204

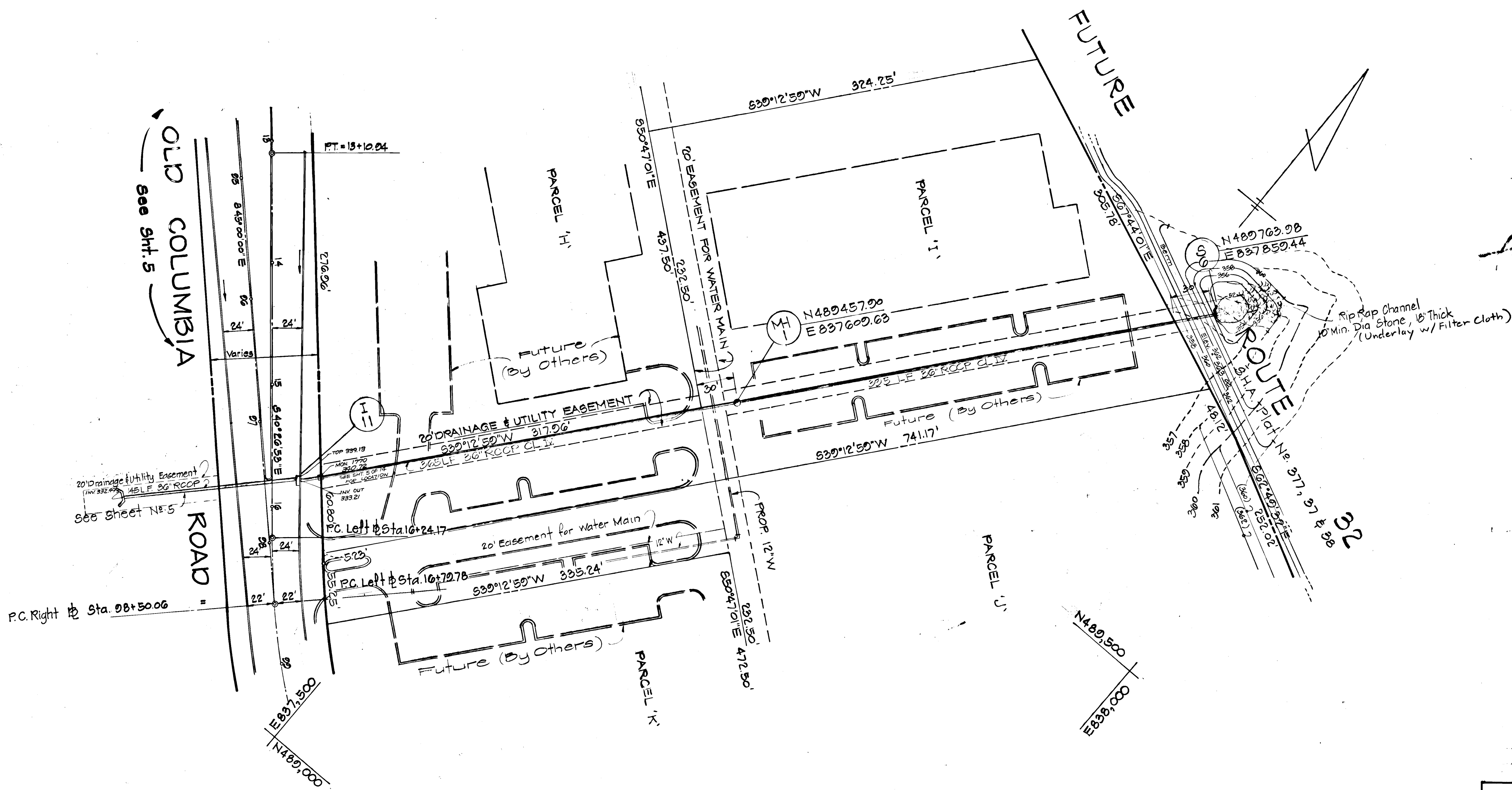


Profile  
SCALE: HOR. 1" = 100' VERT. 1" = 10'

AS-BUILT SURVEY CERTIFIED BY JOHN W. DANUSCH, SR. REG.-PE. NO. 10551 ON OCT. 12, 1981  
 AS-BUILT SURVEY CERTIFIED BY WALTER PARK REGISTERED LAND SURVEYOR NO. 5539, ON MARCH 21, 1986



AS-BUILT 8/17/83  
 AS-BUILT SURVEY CERTIFIED BY GREGORY R. KLAR, MD PROFESSIONAL ENGINEER No. 11432



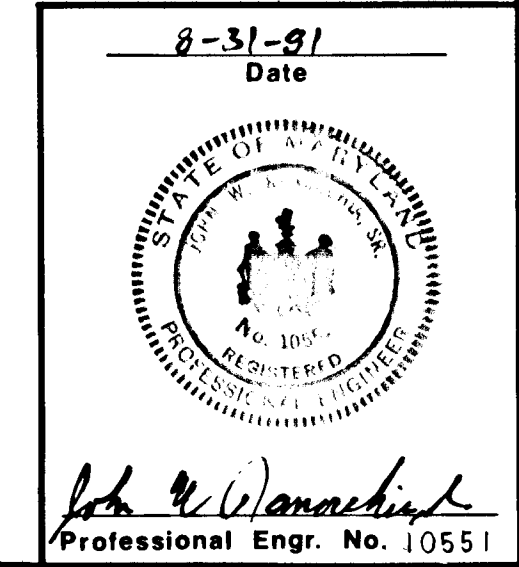
*Handwritten notes:*  
 12/15/81  
 J. W. R. R.

Structure Schedule

No	Type	Location				Remarks
		Road	Sta	Offset	Top	
S-6	Type 'A' Headwall	See Plan	-	-	350.00	SD - 5.11
MH-1	'B'	See Plan	-	-	355.0	SD - 3.01

# 928

AS-BUILT 8-17-83  
 AS-BUILT SURVEY CERTIFIED BY  
 GREGORY B. HARR, M.D. PROFESSIONAL  
 ENGINEER No. 11492

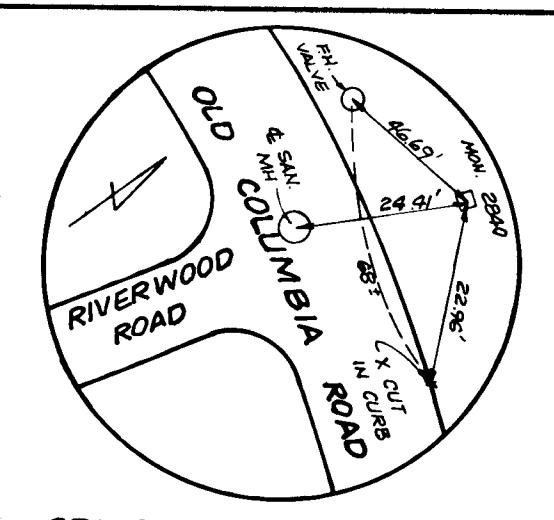
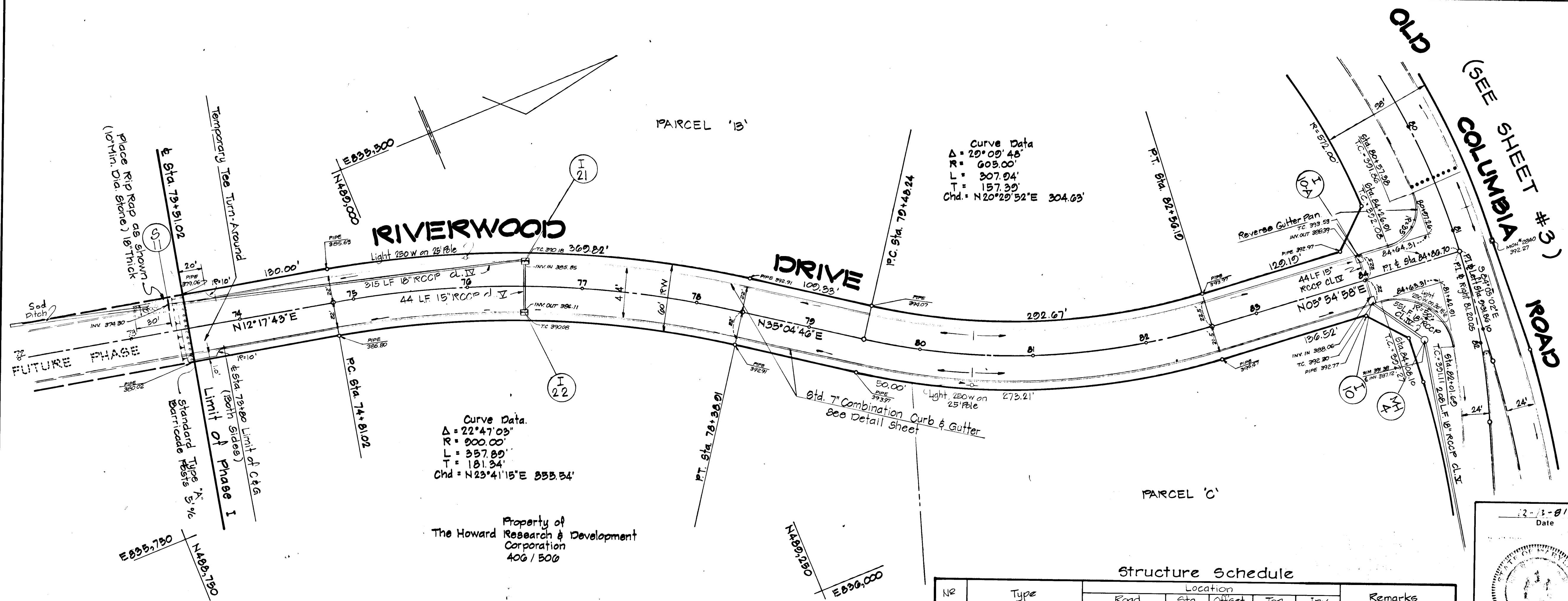


DEPARTMENT OF PUBLIC WORKS		Date	
Chief, Bureau of Engineering		12/15/81	
DEPARTMENT OF PLANNING AND ZONING		Date	
Chief, Div. of Land Development & Zoning Adm.		12/15/81	
2/16/82	Revised Invert S-6		
Date	No	Revision Description	
RIVERS CORPORATE PARK Section 1, Area 1, Phase I 6th Election District - Howard County, Maryland			
Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland			
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204			
AREA	TAX MAP 41 AND 42 PARCELS 5, 29 AND 236		
TITLE	STORM DRAIN PLAN I II TO S6		
Des By	G. R. K.	Scale	AS SHOWN
Drn By	T. P. D.	Date	6/30/81
Chk By	J. W. R.	Approved	8 OF 15
Proj No		0481	
Drawing No.		8 OF 15	



DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NOTE BOOK NO.	



CONC. MON. LOCATION  
NO SCALE

DEPARTMENT OF PUBLIC WORKS	
Chief, Bureau of Engineering	Date
DEPARTMENT OF PLANNING AND ZONING	
Chief, Div. of Land Development & Zoning Adm.	Date
Date	No
Revision Description	

RIVERS CORPORATE PARK  
Section 1, Area 1, Phase I  
6th Election District - Howard County, Maryland

Owner and Developer  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE COMPANY  
Columbia, Maryland

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

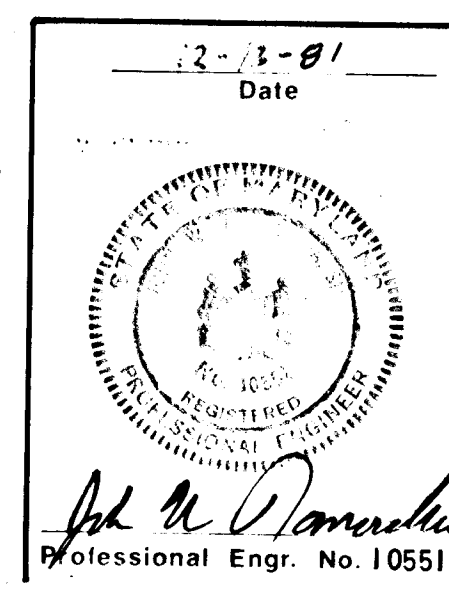
AREA  
TAX MAP 41 AND 42  
PARCELS 5, 29 AND 236

TITLE  
RIVERWOOD DRIVE  
PLAN & PROFILE

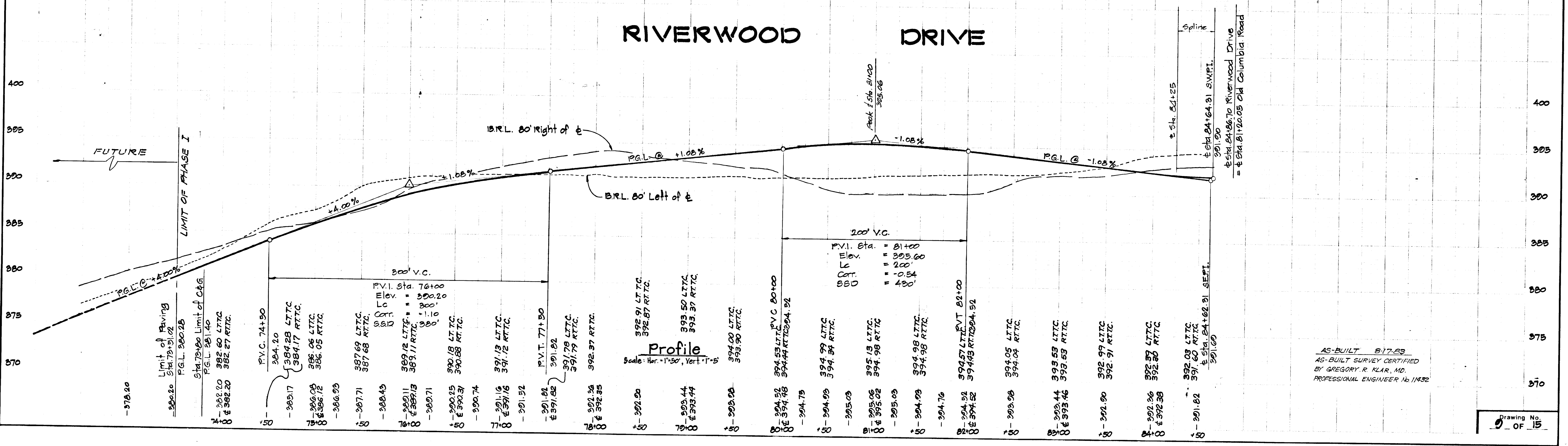
Des By	G.R.K.	Scale	AS SHOWN	Proj No	0481
Drn By	J.D.C.	Date	12/4/81		
Chk By	J.W.R.	Approved			

Structure Schedule

No	Type	Location				Remarks
		Road	Sta.	Offset	Top	
I-21	A-10 (2.5' Wide)	Riverwood Drive	76+50	22' Left	300.25	SD - 4.02
I-22	A-10 (2.5' Wide)	---	76+50	22' Right	300.25	SD - 4.02
S-11	Concrete End Section	Riverwood Drive	73+40	22' Lt.	---	SD - 5.31



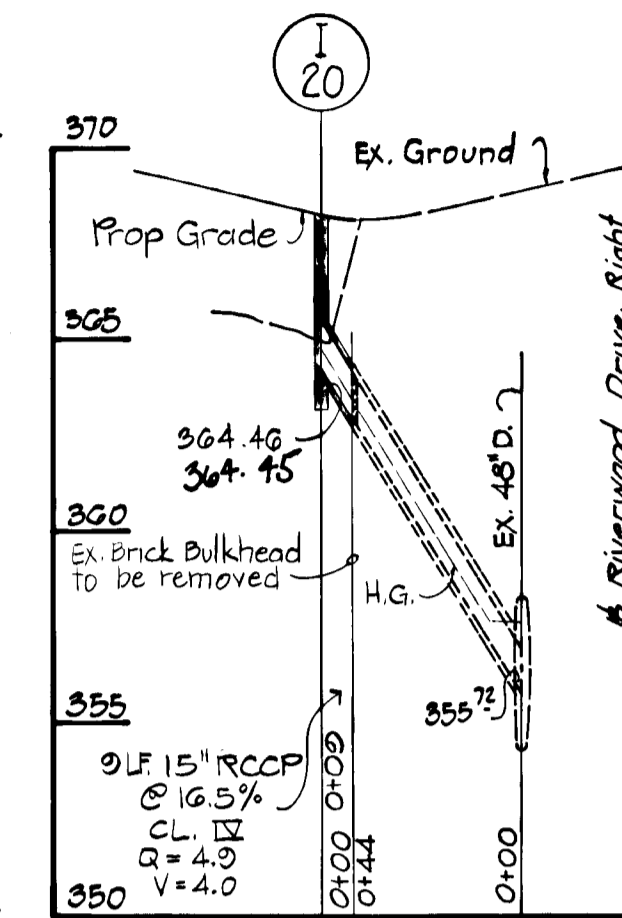
RIVERWOOD DRIVE



AS-BUILT 8-17-83  
AS-BUILT SURVEY CERTIFIED  
BY GREGORY R. KLAR, MD.  
PROFESSIONAL ENGINEER No. 11432

**STRUCTURE SCHEDULE**

No	Type	Location				Remarks
		Road	Sta.	offset	Top Inv.	
I-20	A-5	Guilford Road	11+25	22 Left	368.35 364.46	



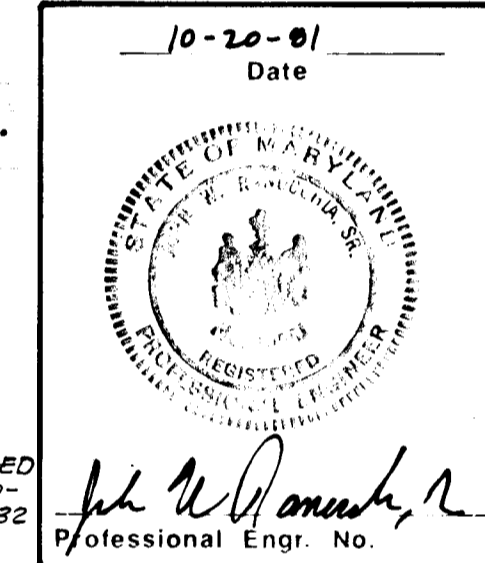
**CURVE DATA**  
 R = 375.00'  
 L = 221.14'  
 Δ = 33°47'17"  
 T = 119.89'  
 CHD = N02°06'22"E  
 217.95'

**EX. GUILFORD ROAD (RTE. 32) MD.**

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

Note: Construction to be coordinated with S.H.A. Construction of New Md. Route 32.

AS-BUILT 8-17-83  
 AS-BUILT SURVEY CERTIFIED BY GREGORY R. KLAR, MD. PROFESSIONAL ENGINEER NO. 1932



AS-BUILT 3-21-86  
 AS-BUILT SURVEY CERTIFIED BY WALTER PARK, MD. REGISTERED LAND SURVEYOR NO. 6534

DEPARTMENT OF PUBLIC WORKS	
305	Chief, Bureau of Engineering
DEPARTMENT OF PLANNING AND ZONING	
360	Chief, Div. of Land Develop. and Zoning Adm.
Date	No
Revision Description	
355	RIVERS CORPORATE PARK Section 1, Area 1, Phase I
350	6th Election District - Howard County, Maryland
Owner and Developer	
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION	
THE ROUSE COMPANY	
Columbia, Maryland	
CENTURY ENGINEERING, INC.	
CONSULTING ENGINEERS - PLANNERS	
TOWSON, MARYLAND 21204	
AREA	TAX MAP 41 AND 42 PARCELS 5, 29 AND 236
TITLE	GUILFORD ROAD - PLAN & PROFILE Sta. 8+06.66 to Sta. 11+33.84 MODIFICATIONS TO RIVERWOOD DRIVE
Des By	G.R.K.
Drn By	K.B.H.
Chk By	J.W.R.
Scale	AS SHOWN
Date	10/15/81
Proj No	0481
Approved	

**PLAN**

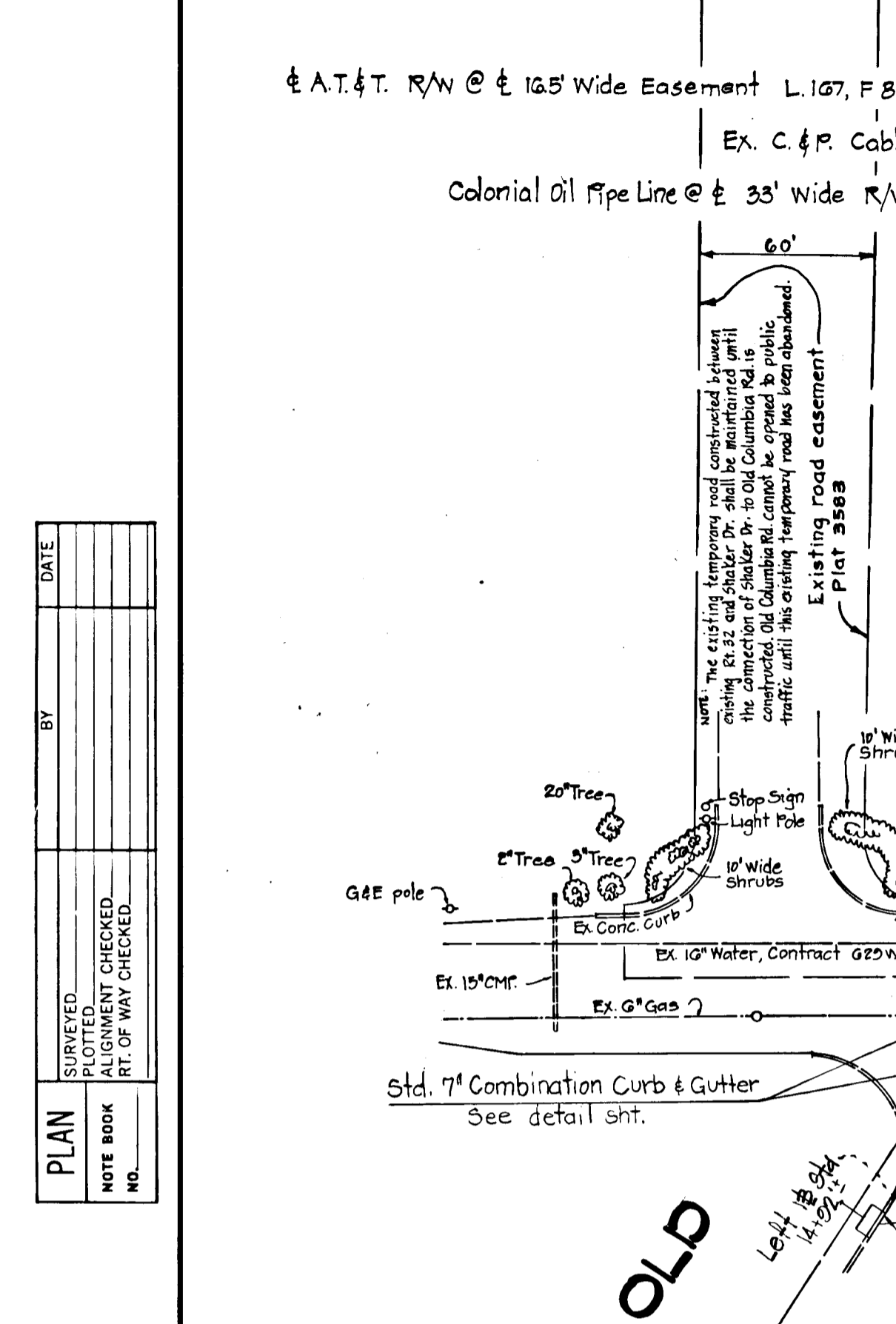
DATE	
BY	
SURVEYED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NOTE BOOK NO.	

**PROFILE**

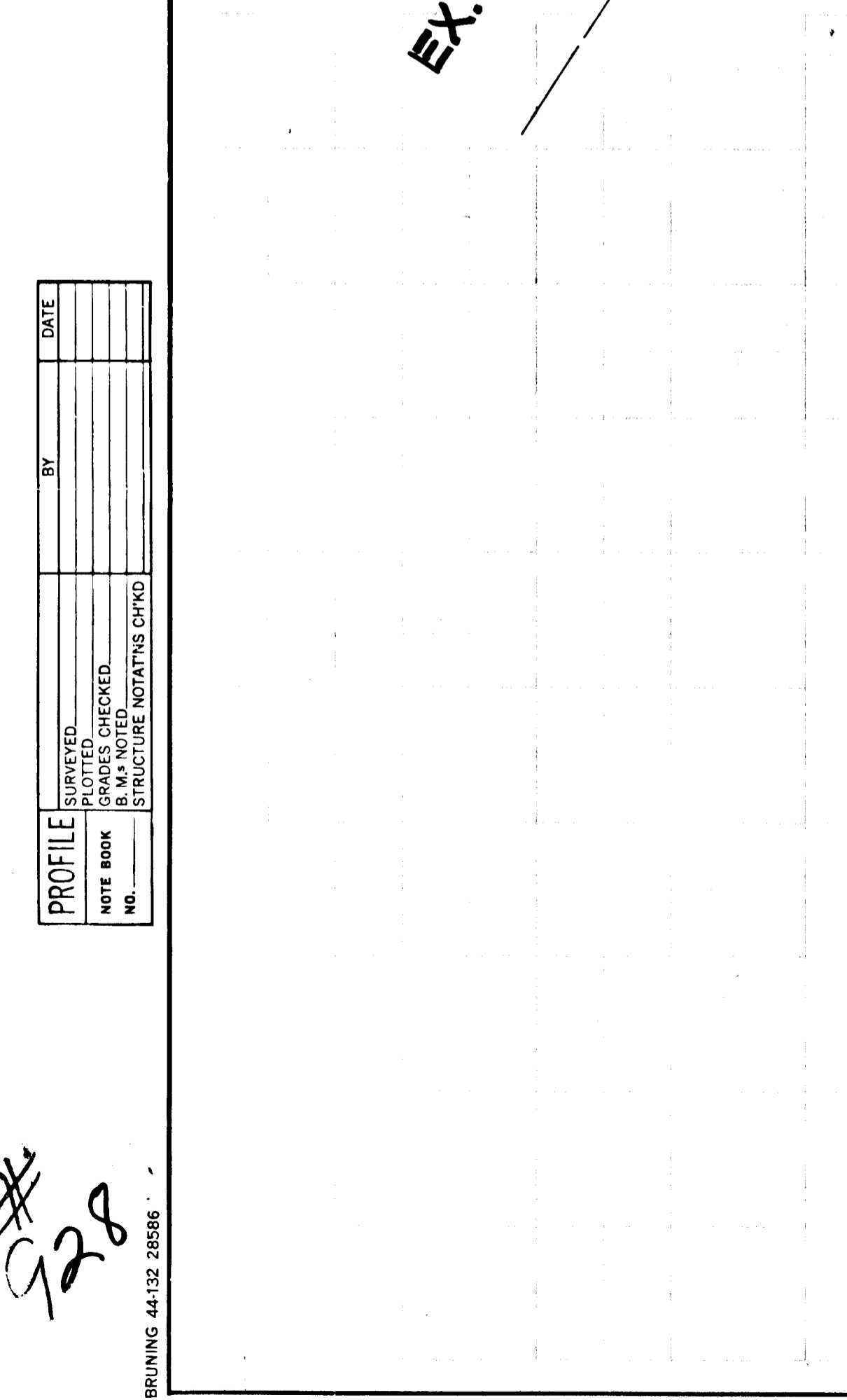
DATE	
BY	
SURVEYED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHK'D	
NOTE BOOK NO.	

#928

BRUNING 44-132-28586

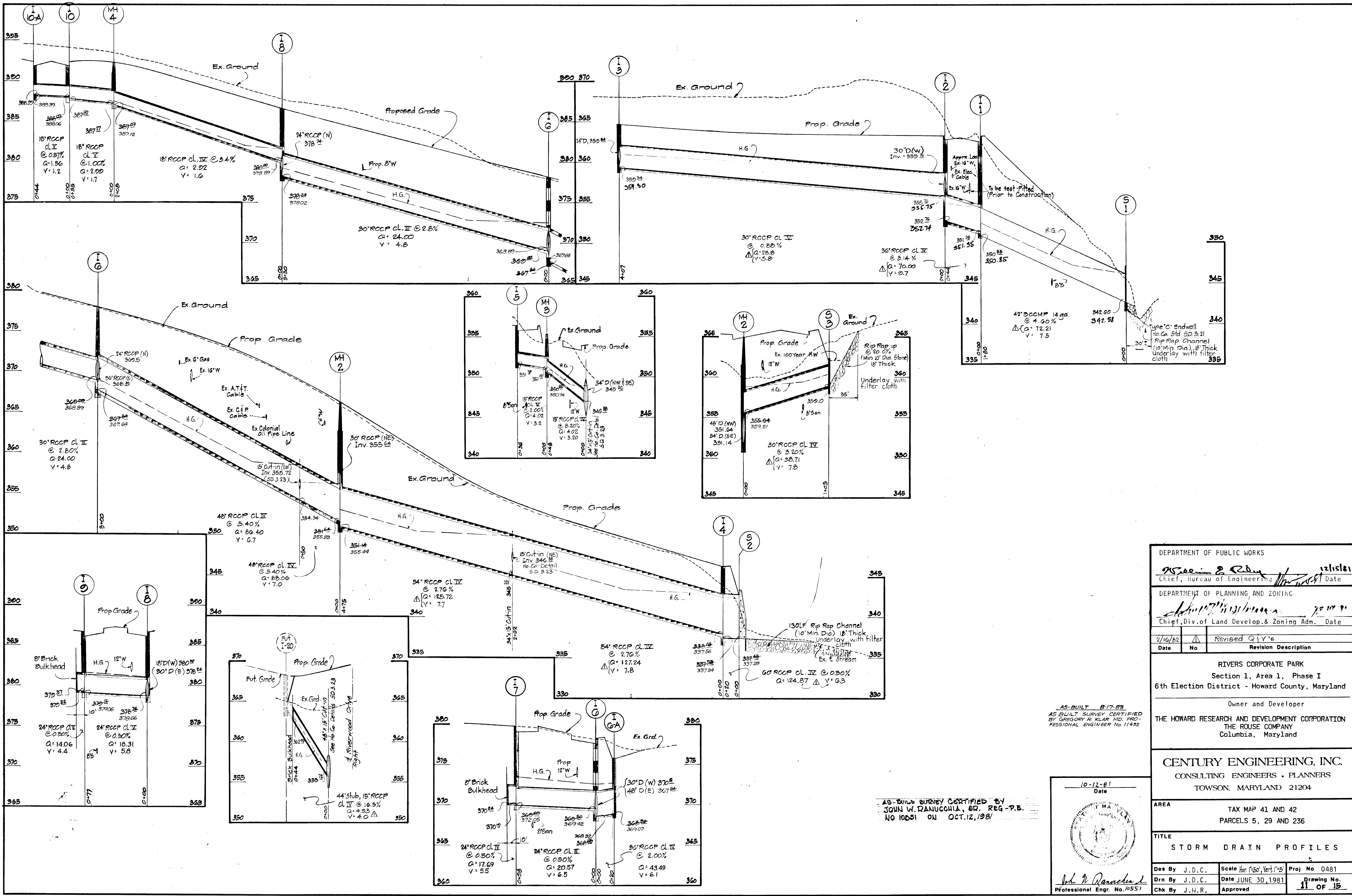


Contractor shall construct std. 7" comb. curb and gutter to Old Columbia Road P.G.L. across Guilford Road, and shall remove as required to meet typical section. See Div. No. 4 of 14 for profile of Old Columbia Road.



**Profile**  
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'  
**GUILFORD ROAD (RTE. 32) MD.**

W. SIDE EX. 366.55	366.70	366.75	367.07	367.24	367.27	367.15	366.90	366.49	366.50	366.70	366.87	365.17	364.56	364.56
E. SIDE EX. 367.31														
P.G.L. 368.70														
P.G.L. 369.30														
P.G.L. 369.75														
P.G.L. 370.07														
P.G.L. 370.24														
P.G.L. 370.27														
P.G.L. 370.15														
P.G.L. 369.90														
P.G.L. 369.49														
P.G.L. 368.50														
EX. 367.50														
EX. 366.50														
EX. 365.75														
EX. 365.20														
EX. 365.00														



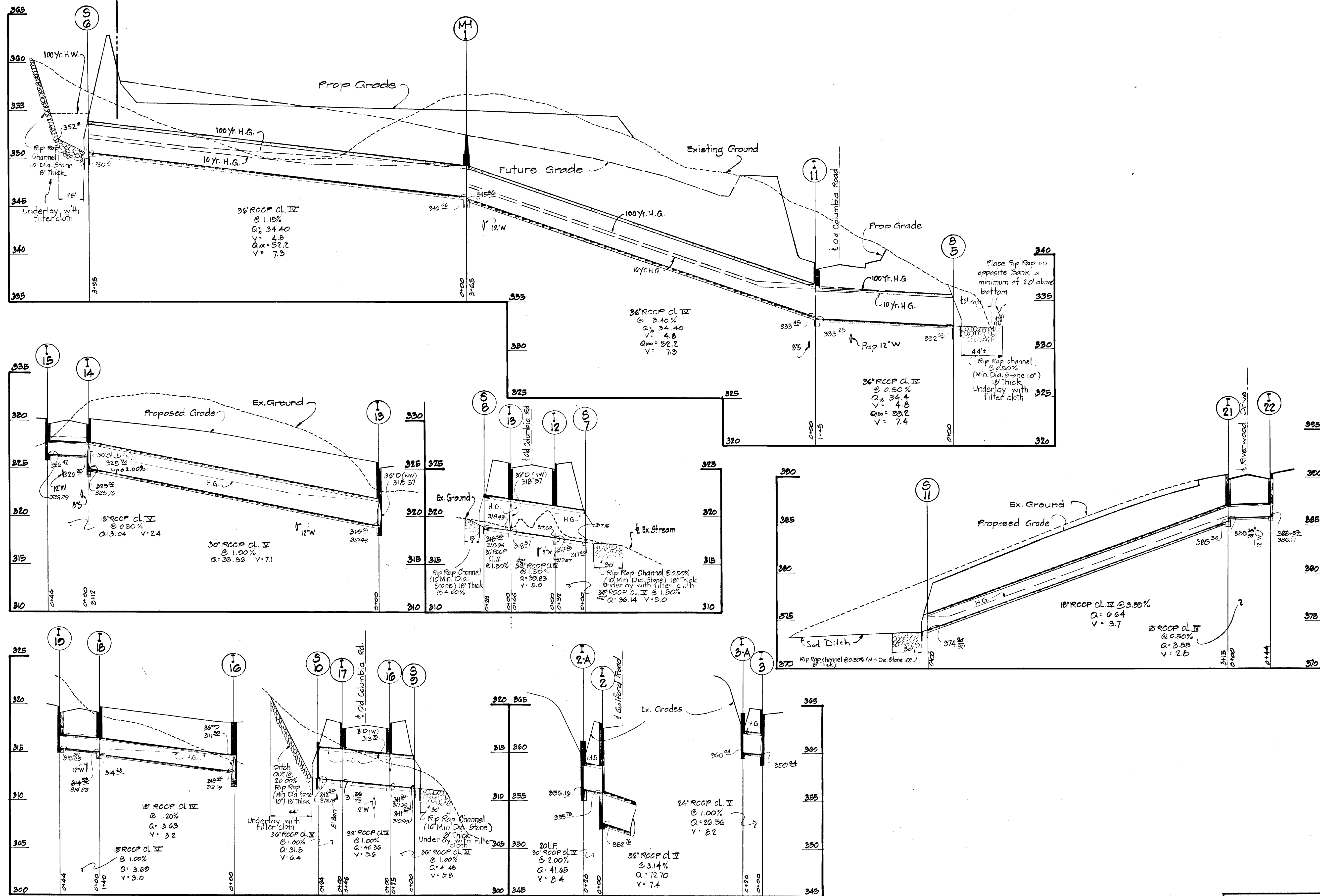
928

AS-BUILT 8-17-83  
 AS-BUILT SURVEY CERTIFIED BY  
 GREGORY R. KLAR, MD., PRO-  
 FESSIONAL ENGINEER NO. 11482

AS-BUILT SURVEY CERTIFIED BY  
 JOHN W. DANUCCHIA, SR., REG.-P.E.  
 NO. 10651 ON OCT. 12, 1981

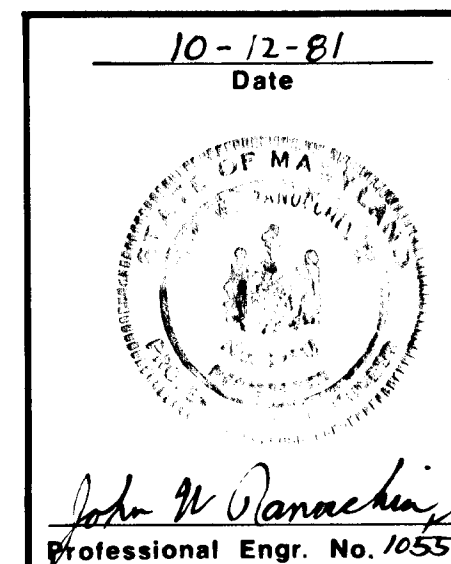
10-12-81  
 Date  
  
 John W. Danuchia, Sr.  
 Professional Engr. No. 10651

DEPARTMENT OF PUBLIC WORKS		12/18/81 Date	
Gregory R. Klar Chief, Bureau of Engineering			
DEPARTMENT OF PLANNING AND ZONING		7/30/81 Date	
John W. Danuchia, Sr. Chief, Div. of Land Develop. & Zoning Adm.			
7/16/82	Revised	Q1Y's	
Date	No	Revision	Description
RIVERS CORPORATE PARK Section 1, Area 1, Phase I 6th Election District - Howard County, Maryland			
Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland			
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204			
AREA	TAX MAP 41 AND 42 PARCELS 5, 29 AND 236		
TITLE	STORM DRAIN PROFILES		
Des By	J.D.C.	Scale	Hor. 1"=50', Vert. 1"=5'
Drn By	J.D.C.	Date	JUNE 30, 1981
Chk By	J.W.R.	Approved	
Proj No	0481		
Drawing No.	11 OF 15		

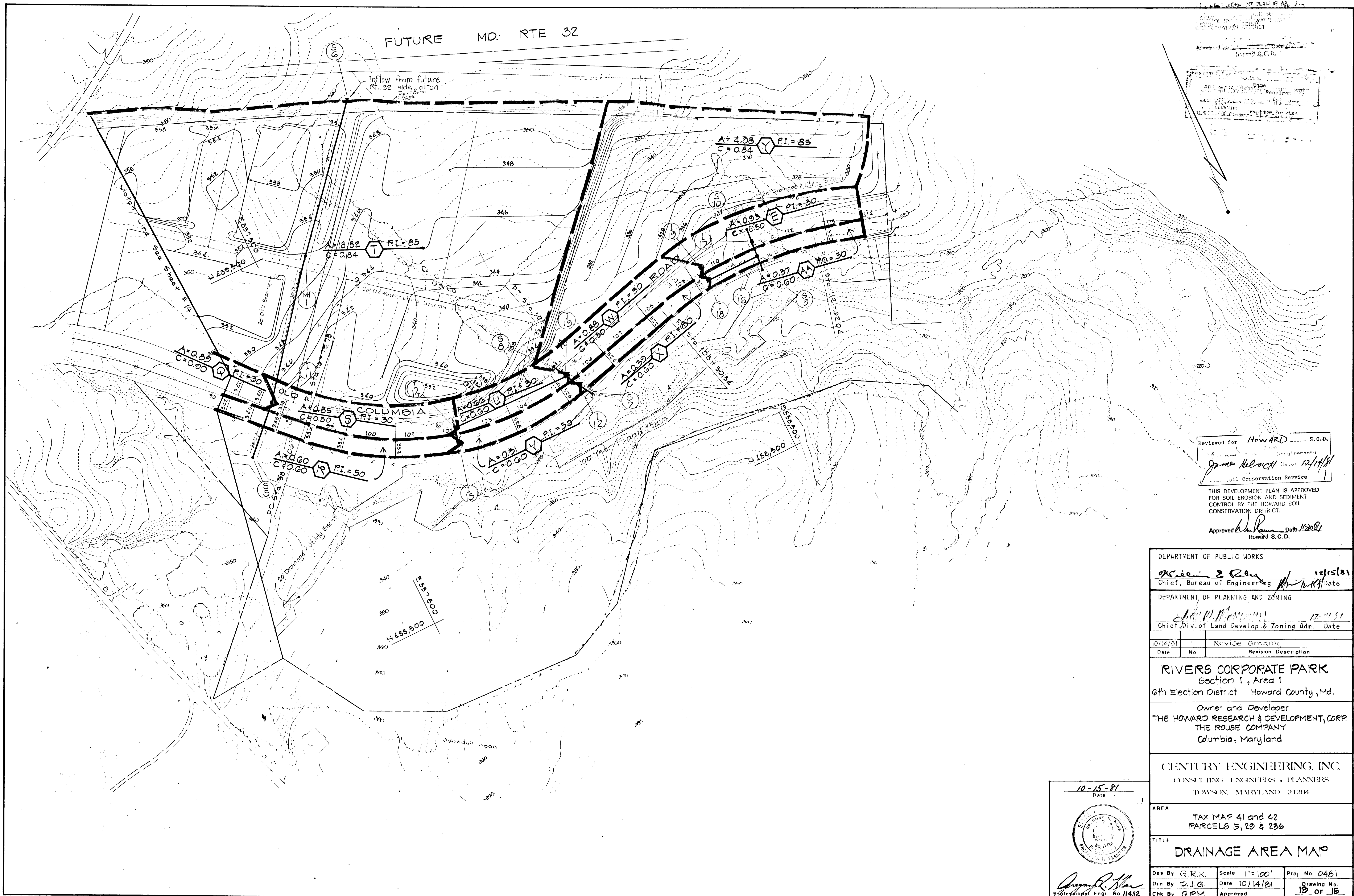


#928

AS-BUILT 8-17-83  
 AS-BUILT SURVEY CERTIFIED  
 BY GREGORY R. KLAR, MD  
 PROFESSIONAL ENGINEER  
 No. 11432



DEPARTMENT OF PUBLIC WORKS		
<i>Gregory R. Klar</i>		12/15/81
Chief, Bureau of Engineering Date		
DEPARTMENT OF PLANNING AND ZONING		
<i>John W. Danachuk</i>		12-11-81
Chief, Div. of Land Develop. & Zoning Adm. Date		
Date	No.	Revision Description
RIVERS CORPORATE PARK Section 1, Area 1, Phase I 6th Election District - Howard County, Maryland		
Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS • PLANNERS TOWSON, MARYLAND 21204		
AREA TAX MAP 41 AND 42 PARCELS 5, 29 AND 236		
TITLE STORM DRAIN PROFILES		
Des By J.D.C.	Scale Hor. 1"=50' Vert. 1"=5'	Proj No 0481
Drn By J.D.C.	Date SEPT. 25, 81	Drawing No.
Chk By J.W.R.	Approved	12 OF 15



Reviewed for HOWARD S.C.D.  
 James Meloyt Date 12/14/81  
 Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved [Signature] Date 1/20/82  
 Howard S.C.D.

DEPARTMENT OF PUBLIC WORKS  
 Kevin E. Ryan 12/15/81  
 Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 12/14/81  
 Chief, Div. of Land Develop. & Zoning Adm. Date

Date	No	Revision Description
10/14/81	1	Revise Grading

RIVERS CORPORATE PARK  
 Section 1, Area 1  
 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 and 42  
 PARCELS 5, 29 & 236

TITLE  
 DRAINAGE AREA MAP

Des By G.R.K. Scale 1"=100' Proj No 0481  
 Drn By D.J.G. Date 10/14/81 Drawing No.  
 Chk By GPM Approved 19 OF 15

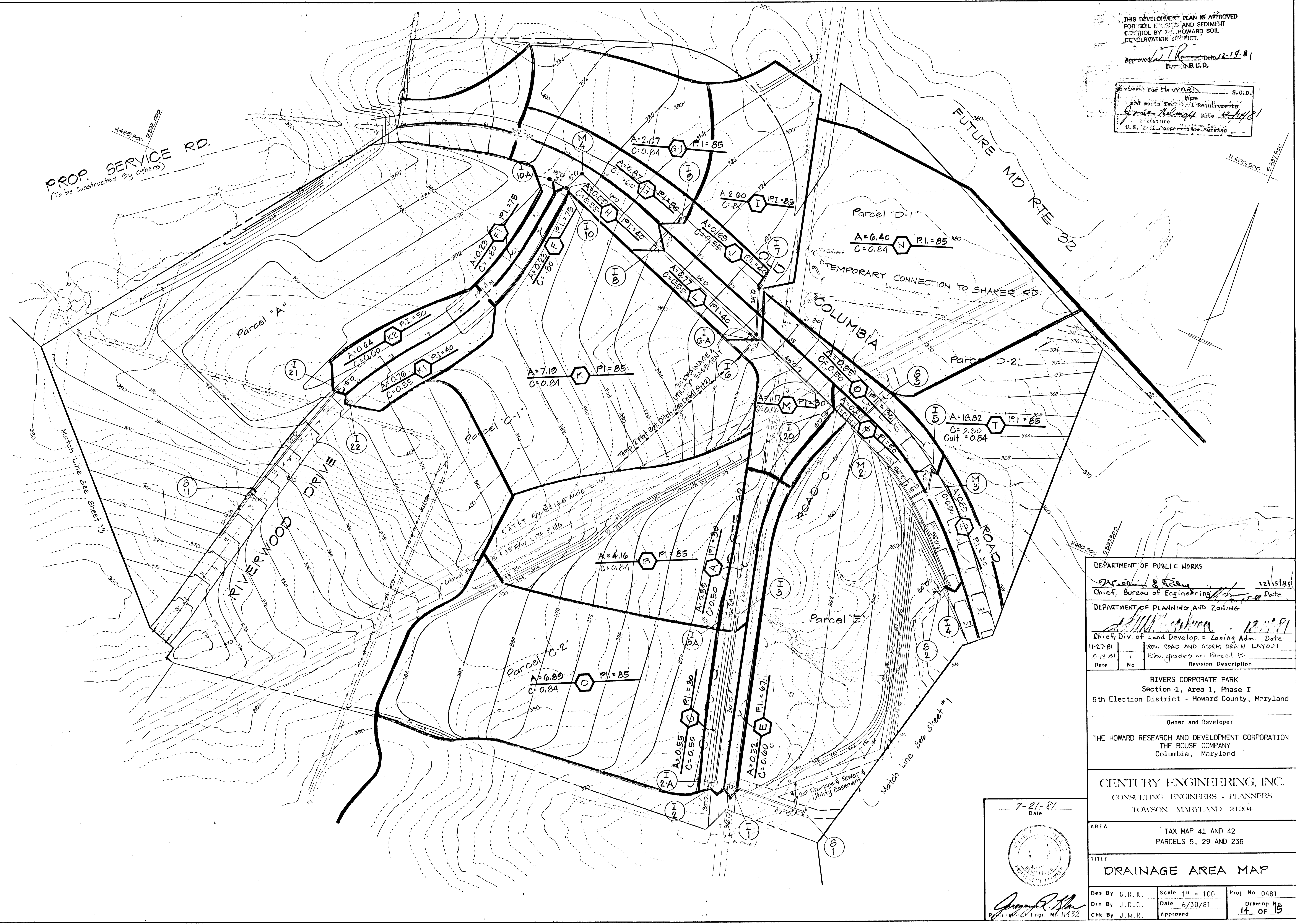
10-15-81  
 Date  
  
 [Signature]  
 Professional Engr. No. 11432

# 928

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved *[Signature]* Date 12-19-81  
 Thomas B. G. D.

Review for HOWARD S.C.D. and meets Technical Requirements  
*[Signature]* Date 12/14/81  
 U.S. Soil Conservation Service

PROP. SERVICE RD.  
 (To be constructed by others)



DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 12/15/81  
 Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 12/15/81  
 Chief, Div. of Land Develop. & Zoning Adm. Date  
 11-27-81 REV. ROAD AND STORM DRAIN LAYOUT  
 8/13/81 Date No Revision Description

RIVERS CORPORATE PARK  
 Section 1, Area 1, Phase I  
 6th Election District - Howard County, Maryland

Owner and Developer  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE COMPANY  
 Columbia, Maryland

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

AREA TAX MAP 41 AND 42  
 PARCELS 5, 29 AND 236

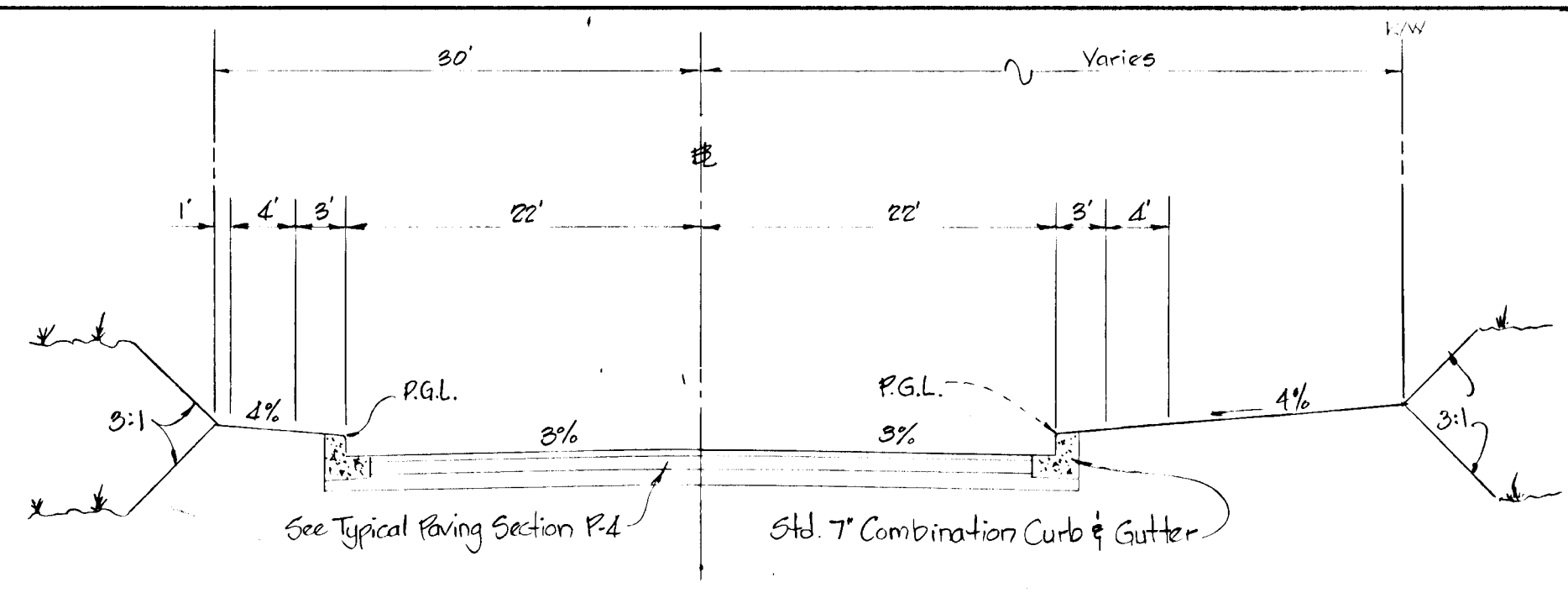
TITLE DRAINAGE AREA MAP

Des By G.R.K.	Scale 1" = 100'	Proj No 0481
Drn By J.D.C.	Date 6/30/81	Drawing No
Chk By J.W.R.	Approved	14 OF 15

7-21-81  
 Date

*[Signature]*  
 J. D. C.  
 Professional Engineer No. 11432

STRUCTURE SCHEDULE						
No	TYPE	LOCATION			REMARKS	
		Road	Sta	Offset		
I-B	A-10	Old Columbia Rd	24' Rt	386.65	SD-4.02	
I-D	A-10			386.65	SD-4.02	
I-10	A-5	Riverwood Drive	10' Lt	382.36	SD-4.01	
HOA	A-5			382.36	SD-4.01	
M14	Type B Manhole	Old Columbia Rd	48' Lt	382.33	SD-3.03	

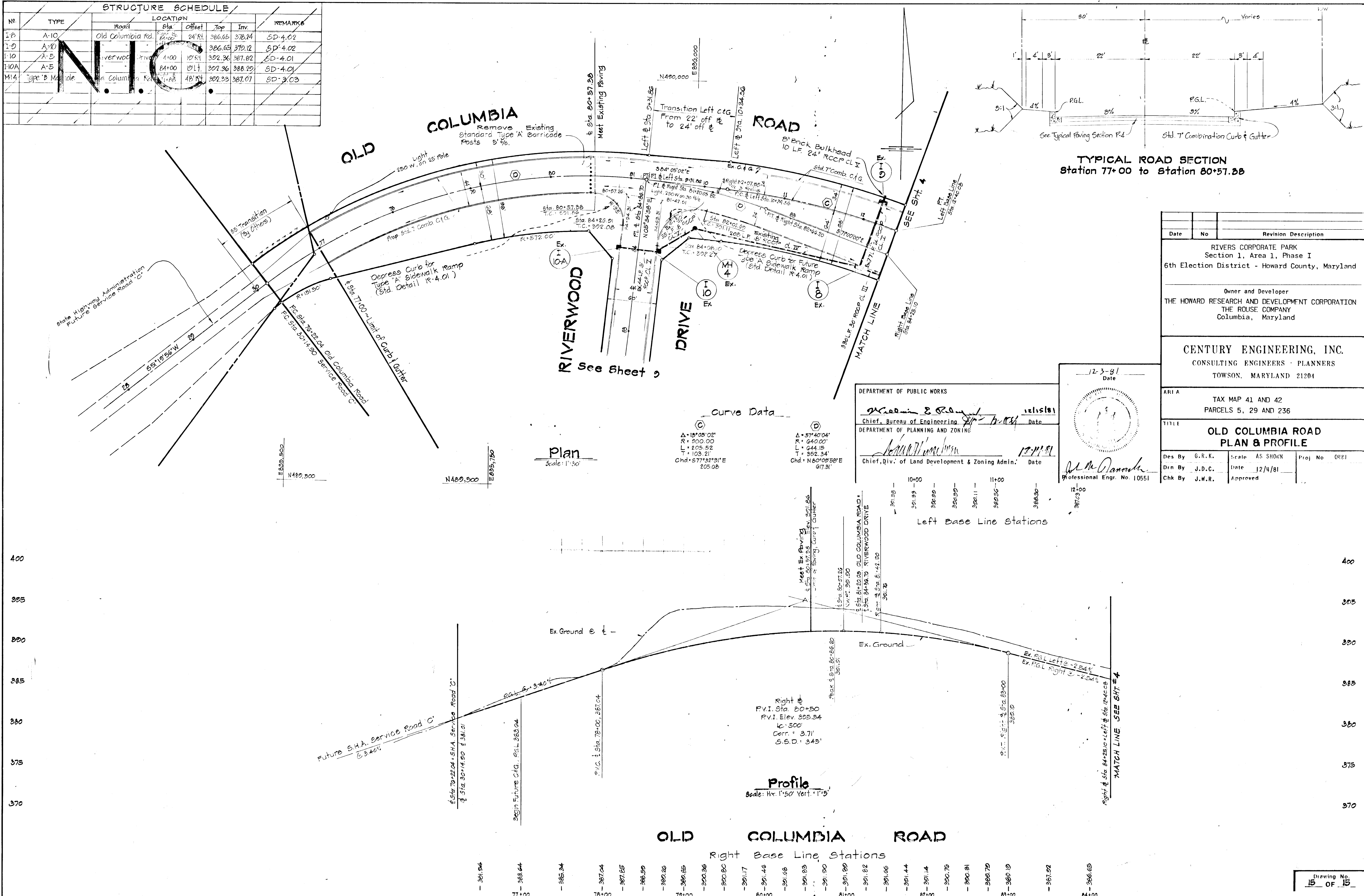


TYPICAL ROAD SECTION  
Station 77+00 to Station 80+57.28

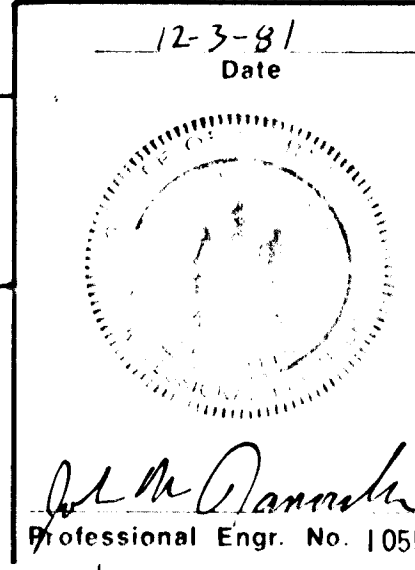
Date	No	Revision Description
		RIVERS CORPORATE PARK Section 1, Area 1, Phase I 6th Election District - Howard County, Maryland
		Owner and Developer THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE COMPANY Columbia, Maryland
		CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204
AREA		TAX MAP 41 AND 42 PARCELS 5, 29 AND 236
TITLE		OLD COLUMBIA ROAD PLAN & PROFILE
Des By	G.R.K.	Scale AS SHOWN
Drn By	J.D.C.	Date 12/4/81
Chk By	J.W.R.	Approved

DATE	
BY	
SURVEYED	
DESIGNED	
CHECKED	
DATE	
NO.	

DATE	
BY	
SURVEYED	
DESIGNED	
CHECKED	
DATE	
NO.	



DEPARTMENT OF PUBLIC WORKS  
*William E. Brown* 12/15/81  
 Chief, Bureau of Engineering  
 DEPARTMENT OF PLANNING AND ZONING  
*John W. ...* 12/14/81  
 Chief, Div. of Land Development & Zoning Admin.



BRUNING 44132 28586