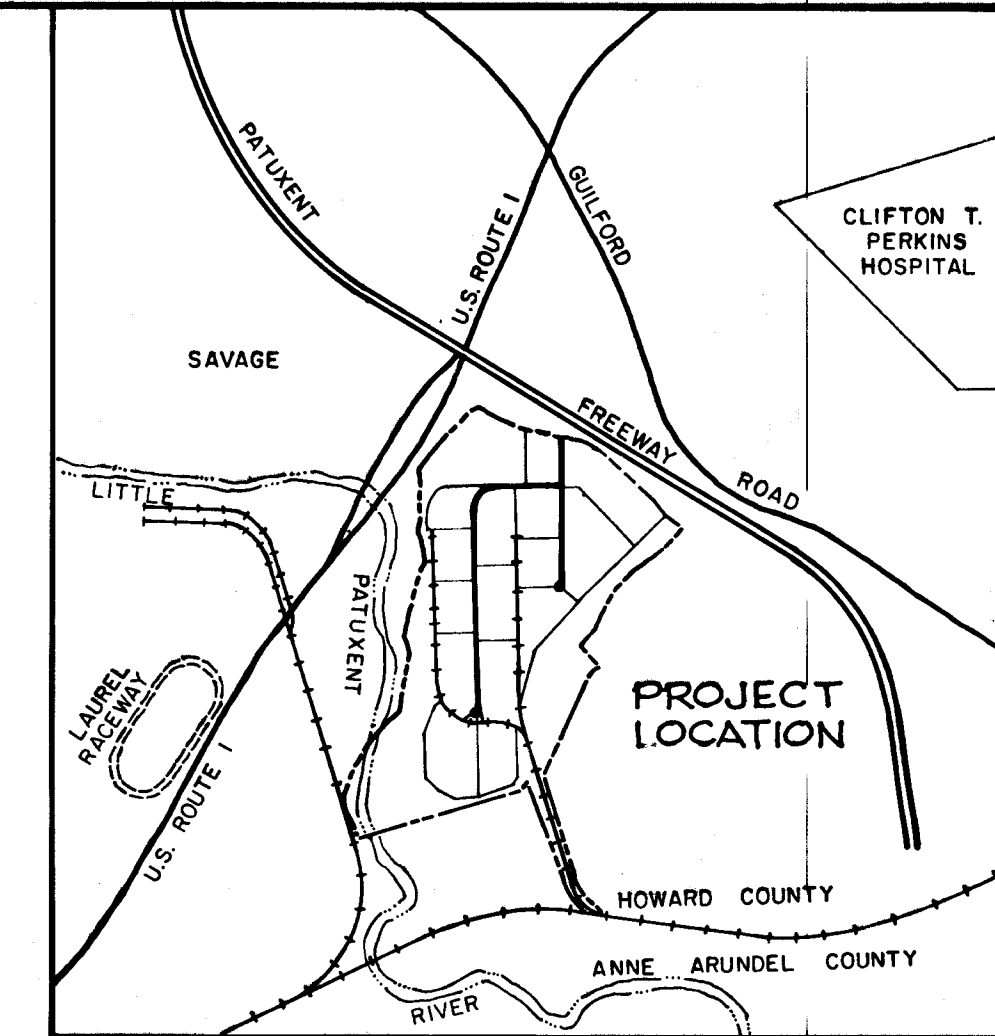


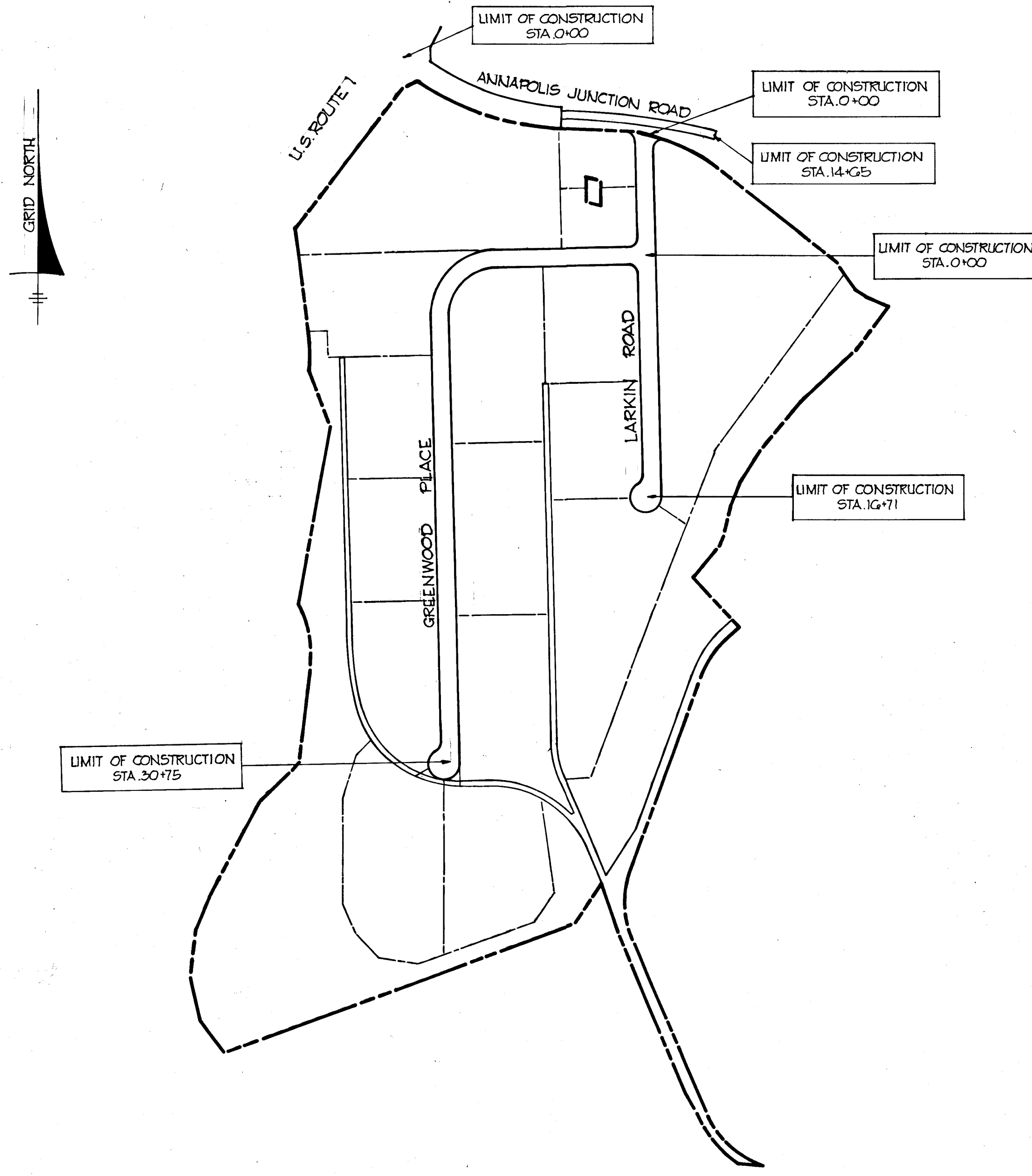
SHEET INDEX	
No.	Description
1	TITLE SHEET
2	TYPICAL SECTIONS AND DETAILS
3	PLAN AND PROFILE - ANNAPOLIS JUNCTION ROAD
4	PLAN AND PROFILE - LARKIN ROAD 0+00 TO 9+00
5	PLAN AND PROFILE - LARKIN ROAD 9+00 TO END
6	PLAN AND PROFILE - GREENWOOD PLACE 0+00 TO 11+00
7	PLAN AND PROFILE - GREENWOOD PLACE 11+00 TO 21+50
8	PLAN AND PROFILE - GREENWOOD PLACE 21+50 TO END
9	PLAN AND PROFILE - CHANNEL OUTFALL @ GREENWOOD PL.
10	STORM DRAIN PROFILES
11	STORM DRAIN PROFILES
12	STORM DRAIN PROFILES
13	DRAINAGE AREA MAP
14	DRAINAGE AREA MAP
15	SOIL EROSION CONTROL PLAN
16	SOIL EROSION CONTROL PLAN
17	DETAILS - RAILROAD PIPE CULVERT
18	PLAN - RAILROAD PIPE CULVERT

# CORRIDOR INDUSTRIAL PARK

## 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1"=2,000'



PLAN  
SCALE: 1"=400'

### GENERAL NOTES

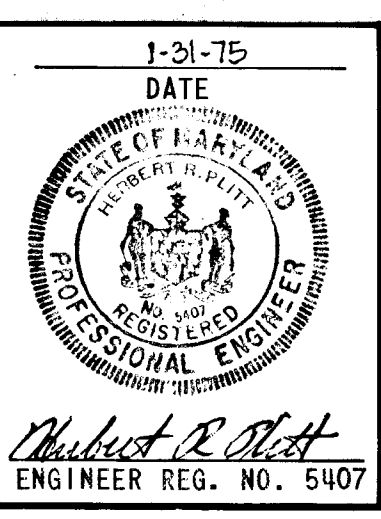
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS & ELECTRIC CO.	539-8000 EXT. 691
5. BRICK BULKHEAD SHALL BE INSTALLED IN ALL STORM DRAIN STUBS.
6. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
7. ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
8. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
9. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.

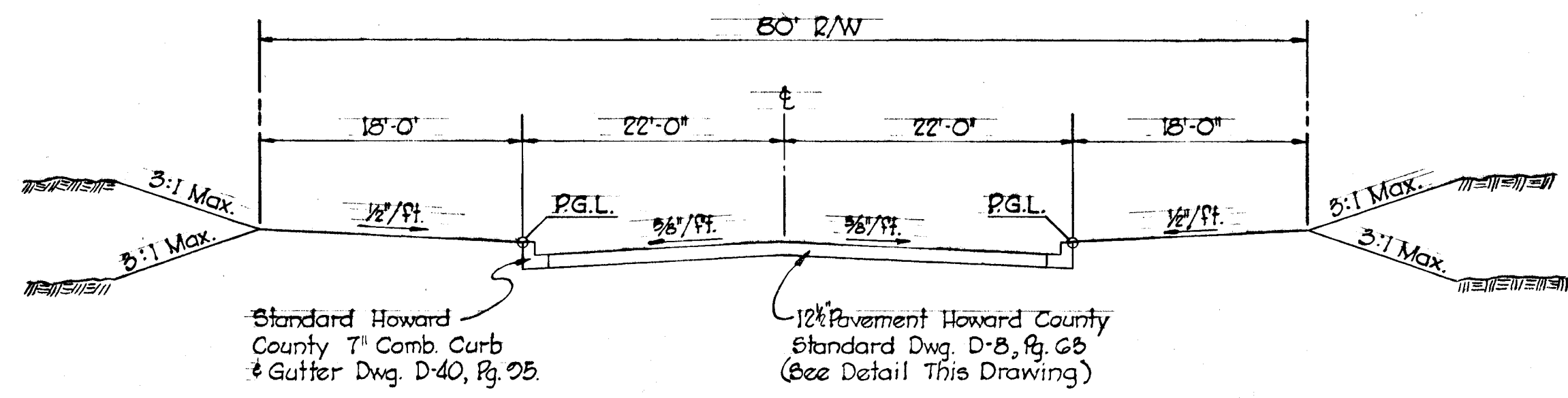
ROAD 'A'	- 35 M.P.H.
ROAD 'B'	- 35 M.P.H.
10. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
11. TREES ARE TO BE PROTECTED AGAINST DAMAGE TO THE MAXIMUM EXTENT REASONABLE. TREES WHICH ARE TO REMAIN IN STREETS AND OTHER RIGHTS-OF WAY WILL BE MARKED BY THE ENGINEER PRIOR TO COMMENCING OF CONSTRUCTION OPERATIONS.
12. 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.
13. END WALLS: THE TYPES OF ENDWALLS SHOWN ON THE PLANS ARE SUBJECT TO CHANGE, AND ARE NOT TO BE CONSTRUCTED UNTIL GRADING IS COMPLETED. DIMENSIONS OF ENDWALLS AS SHOWN ON STANDARD PLATES MAY BE MODIFIED FOR USE WITH CORRUGATED METAL PIPE, PIPE ARCH OR OTHERWISE AS DIRECTED BY THE ENGINEER.
14. INVERTS OF INLETS AND HEADWALLS: INVERT ELEVATIONS OF INLETS AND HEADWALLS MAY BE MODIFIED FOR USE WITH CORRUGATED METAL PIPE, PIPE ARCH OR OTHERWISE AS DIRECTED BY THE ENGINEER.
15. ALL COORDINATES BASED ON MARYLAND STATE GRID SYSTEM.
16. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. & G.S. MEAN SEA LEVEL DATUM 1929.
17. ALL STUB CONNECTIONS MUST BE PROPERLY LOCATED PRIOR TO BACKFILLING.
18. ALL SLOPES AND R/W SHALL BE SEEDED AND MULCHED AS FOLLOWS:
  - A. APPLY GROUND LIMESTONE AT 2 TONS PER ACRE.
  - B. APPLY 10-10-10 FERTILIZER AT 1,000 LBS. PER ACRE.
  - C. WORK BOTH INTO SOIL AND PREPARE AREA TO BE SEEDED WITH A YORK RAKE.
  - D. SEED AREAS WITH COMMON KENTUCKY BLUEGRASS AT 60 LBS. PER ACRE, CERTIFIED MERTON KENTUCKY BLUEGRASS AT 30 LBS. PER ACRE AND PENNLAWN RED FESCUE AT 50 LBS. PER ACRE.
  - E. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT 2 1/2 TONS PER ACRE AND TACK WITH ASPHALT.

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/20/75  
*[Signature]*

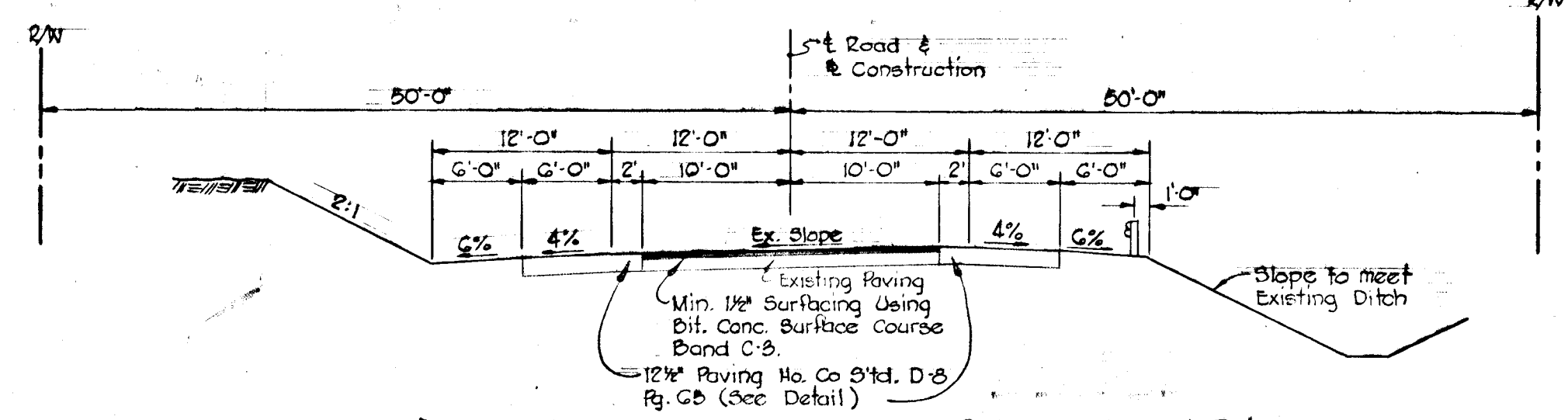
DEPARTMENT OF PUBLIC WORKS	
<i>D. M. McElwain</i>	6/10/75
CHIEF, BUREAU OF HIGHWAYS	DATE
OFFICE OF PLANNING AND ZONING	
<i>J. H. Clawson</i>	6/9/75
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING	DATE
<b>CENTURY ENGINEERING, INC.</b>	
CONSULTING ENGINEERS · PLANNERS	
TOWSON, MARYLAND 21204	



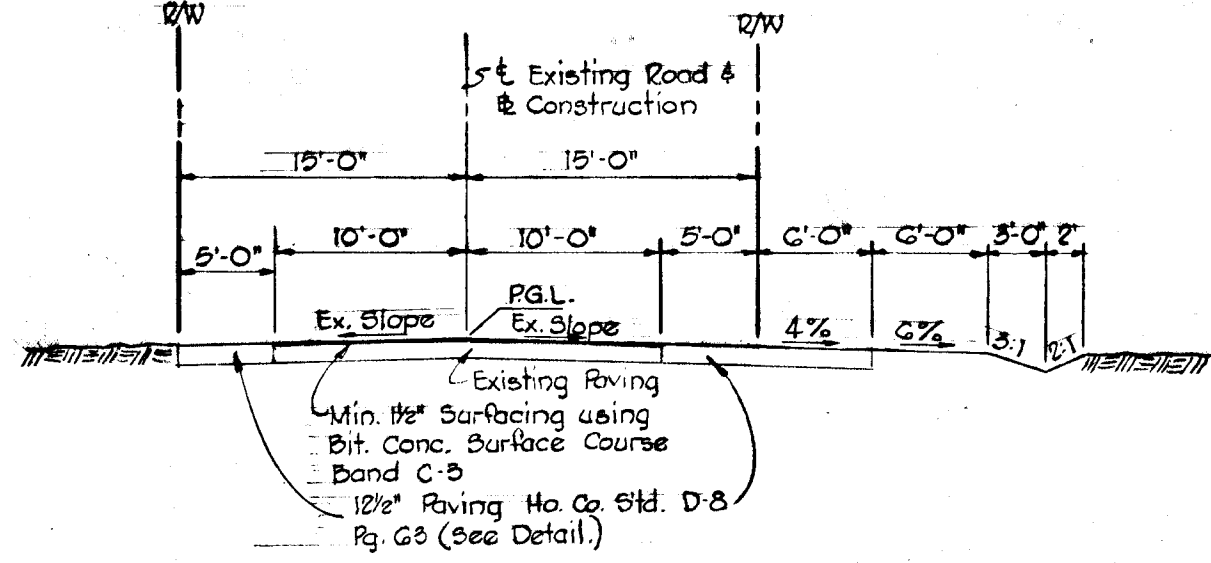
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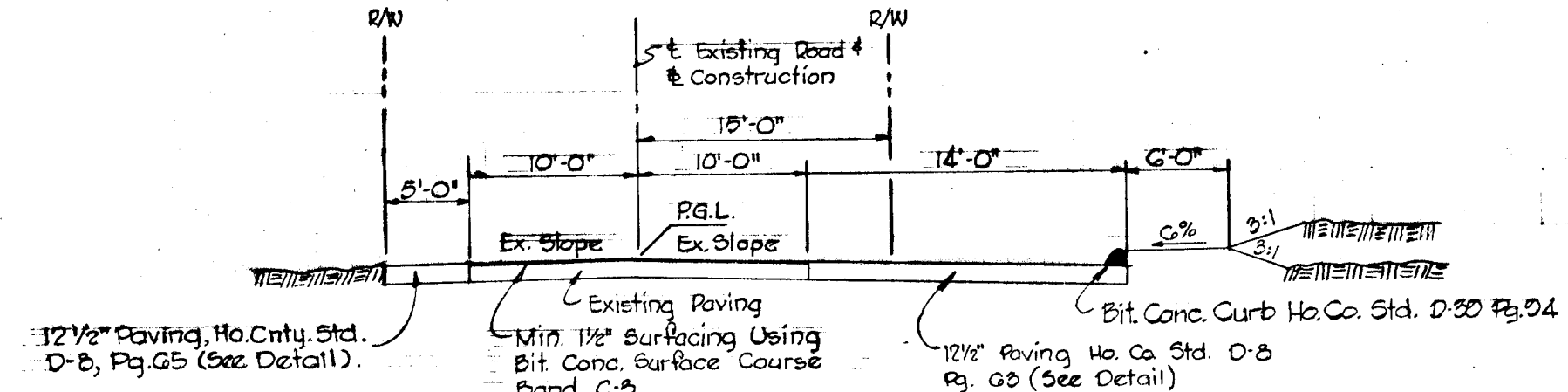
**TYPICAL SECTION 80' R/W**  
 COMMERCIAL - INDUSTRIAL  
 Scale: 1" = 10'



**ANNAPOLIS JUNCTION ROAD 100' R/W**  
 STA. 0+75 to STA. 6+00  
 No Scale  
 COMMERCIAL - INDUSTRIAL



**ANNAPOLIS JUNCTION ROAD OFFSET PAVING SECTION**  
 STA. 7+80 to STA. 9+70  
 No Scale  
 COMMERCIAL - INDUSTRIAL



**ANNAPOLIS JUNCTION ROAD 14' TURN LANE**  
 STA. 10+25 to STA. 13+00  
 No Scale  
 COMMERCIAL - INDUSTRIAL

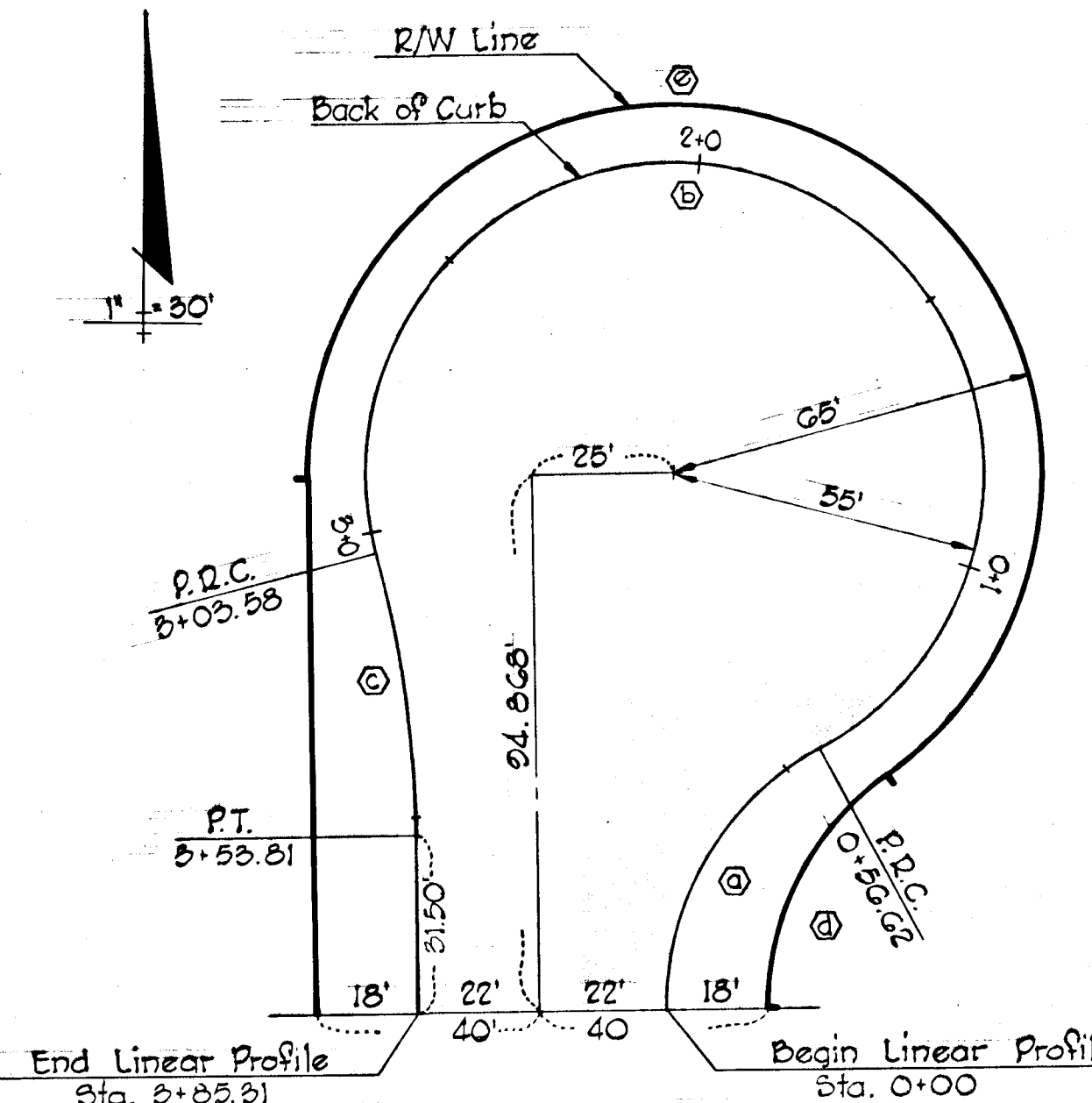
Bituminous Concrete Surface	1 1/2" Band C-3
Bituminous Concrete Binder	5" (Gravel Mix)
Crusher Run Base	6"

Tack Coat Section C-31-4  
 Prime Coat Section C-30-3

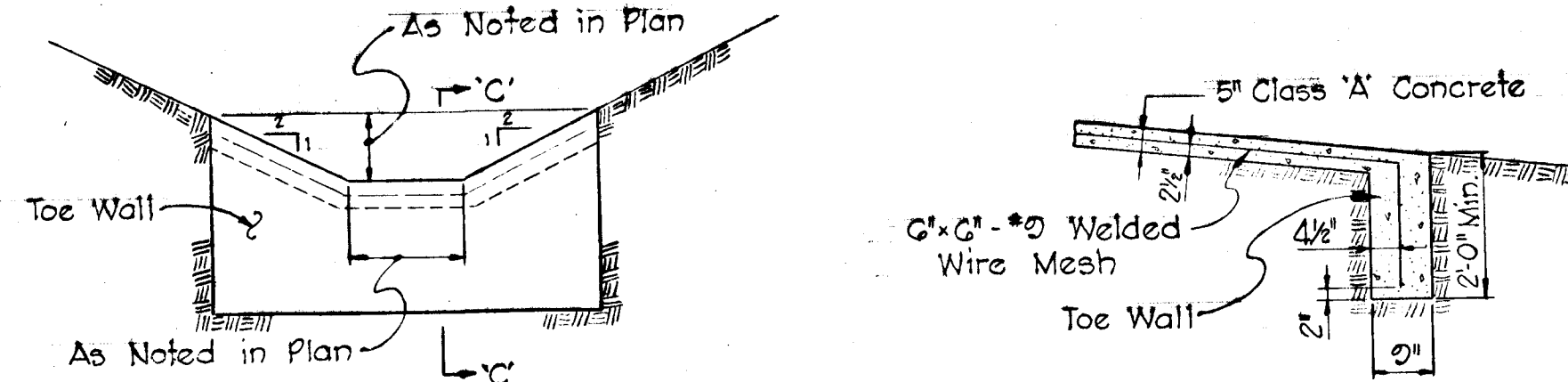
**PAVING DETAIL D-8, Pg. G3**  
 No Scale  
 COMMERCIAL - INDUSTRIAL

Clearing and Grading: Artical C-1  
 Subgrade: Artical C-2  
 Base Course: Artical C-25  
 Binder Course: Artical C-31 or C-35  
 Surface Course: Artical C-31  
 To Be Constructed in Accordance With The Howard County Road Construction Code And Specifications.

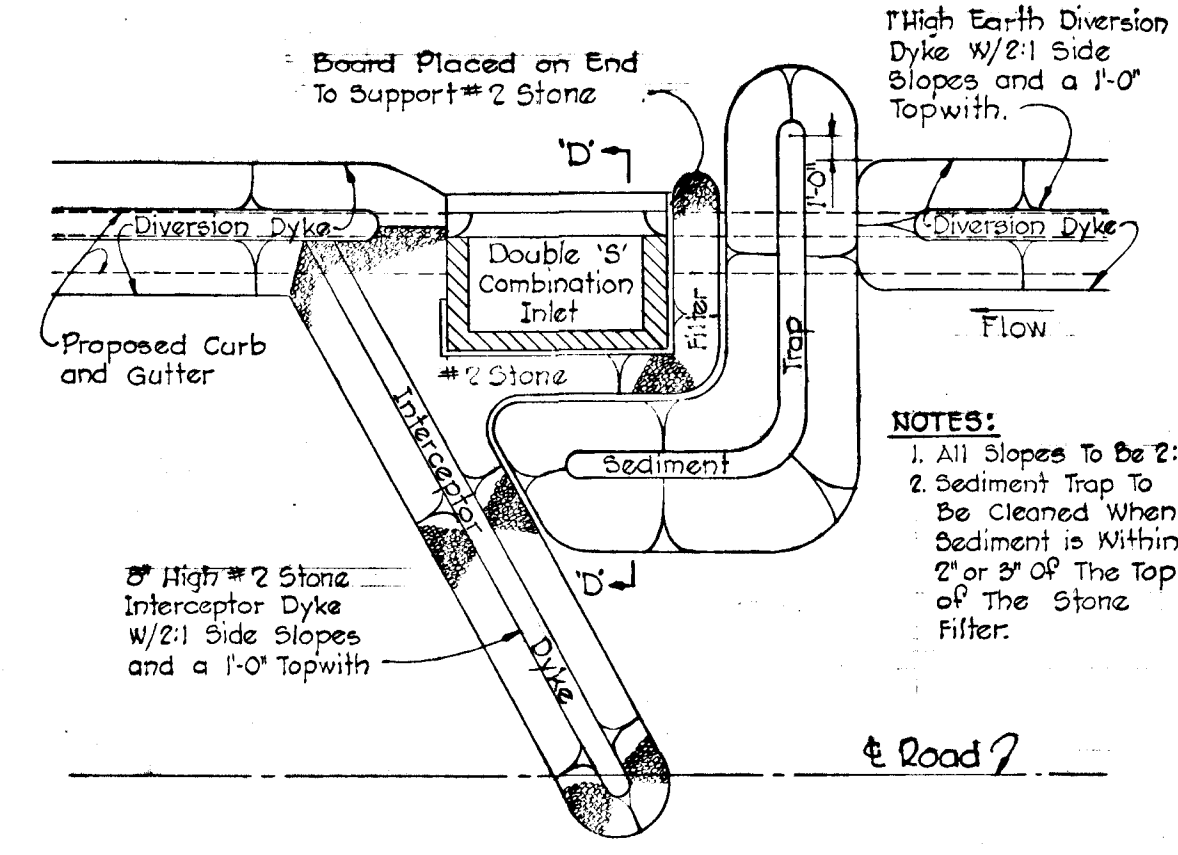
No.	Radius	Length	Δ	Tan.	Chord	L.C.B.
①	51.50'	56.62'	62°52'52"	31.54'	68.82'	N 81°23'20" E
②	56.00'	24.60'	26°16'15"	-68.81'	88.93'	N 65°45'10" W
③	200.00'	50.28'	14°23'28"	25.25'	50.10'	S 07°11'42" E
④	50.00'	48.31'	65°34'57"	26.25'	46.62'	N 27°47'20" E
⑤	65.00'	267.26'	255°34'57"	-123.25'	119.01'	N 62°12'31" W



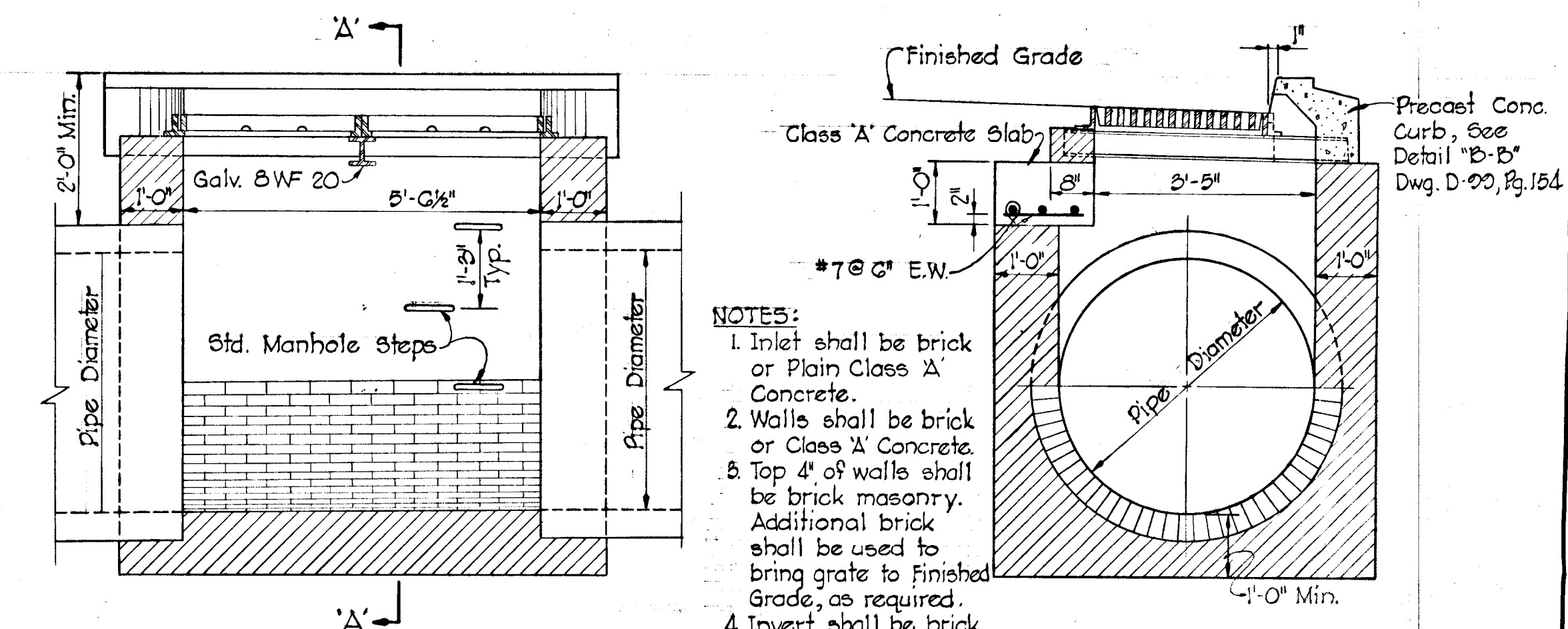
**CUL-DE-SAC FOR 80' R/W**  
 Scale:



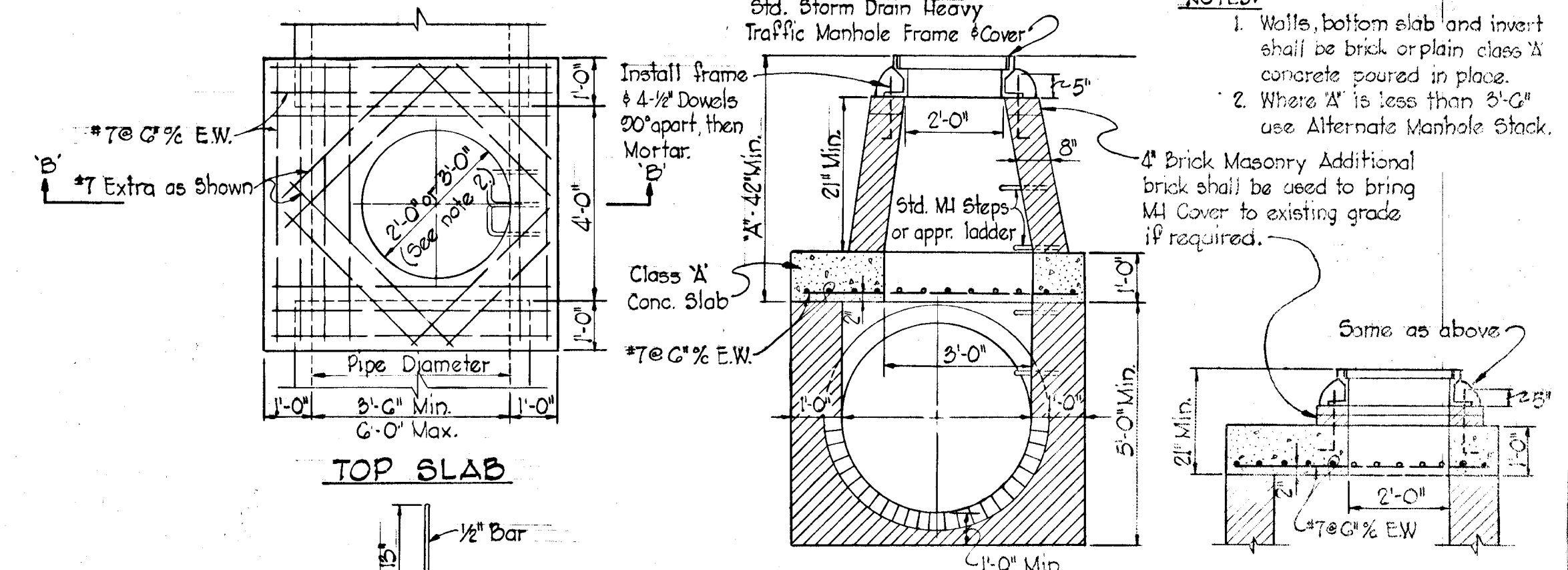
**CONCRETE CHANNEL DETAIL**  
 No Scale



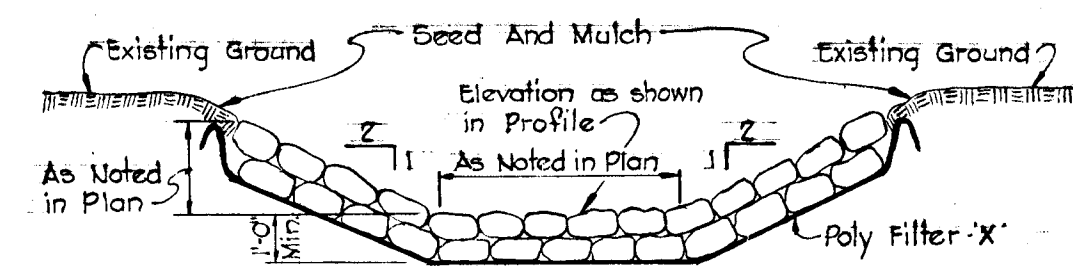
**SEDIMENT CONTROL DETAIL FOR 'S' INLET**  
 No Scale



**SPECIAL DOUBLE 'S' COMB. INLET**  
 No Scale

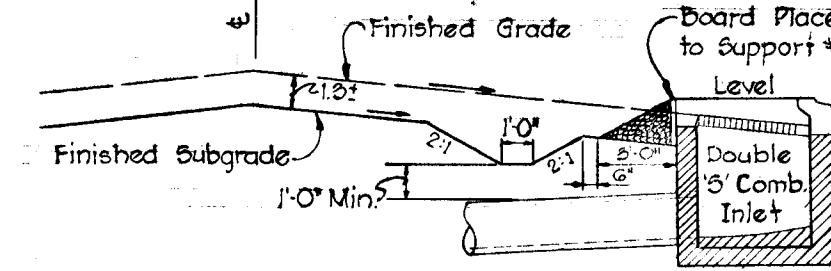


**TYPE 'C' MANHOLE**  
 No Scale



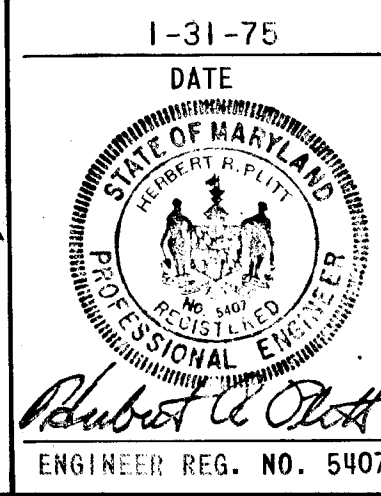
Notes:  
 1. Rip Rap to be 8" to 12" in diameter, resistant to the action of water, with smaller stone to fill voids.  
 2. 2' Toe wall required at beginning and end of channel.  
 3. Before placing Rip Rap line channel with Poly Filter 'X', as manufactured by Carthage Mills, Inc. Erosion Control Division, 124 W. 66th Street, Cincinnati, Ohio, or approved equal.

**RIP-RAP CHANNEL DETAIL**  
 No Scale



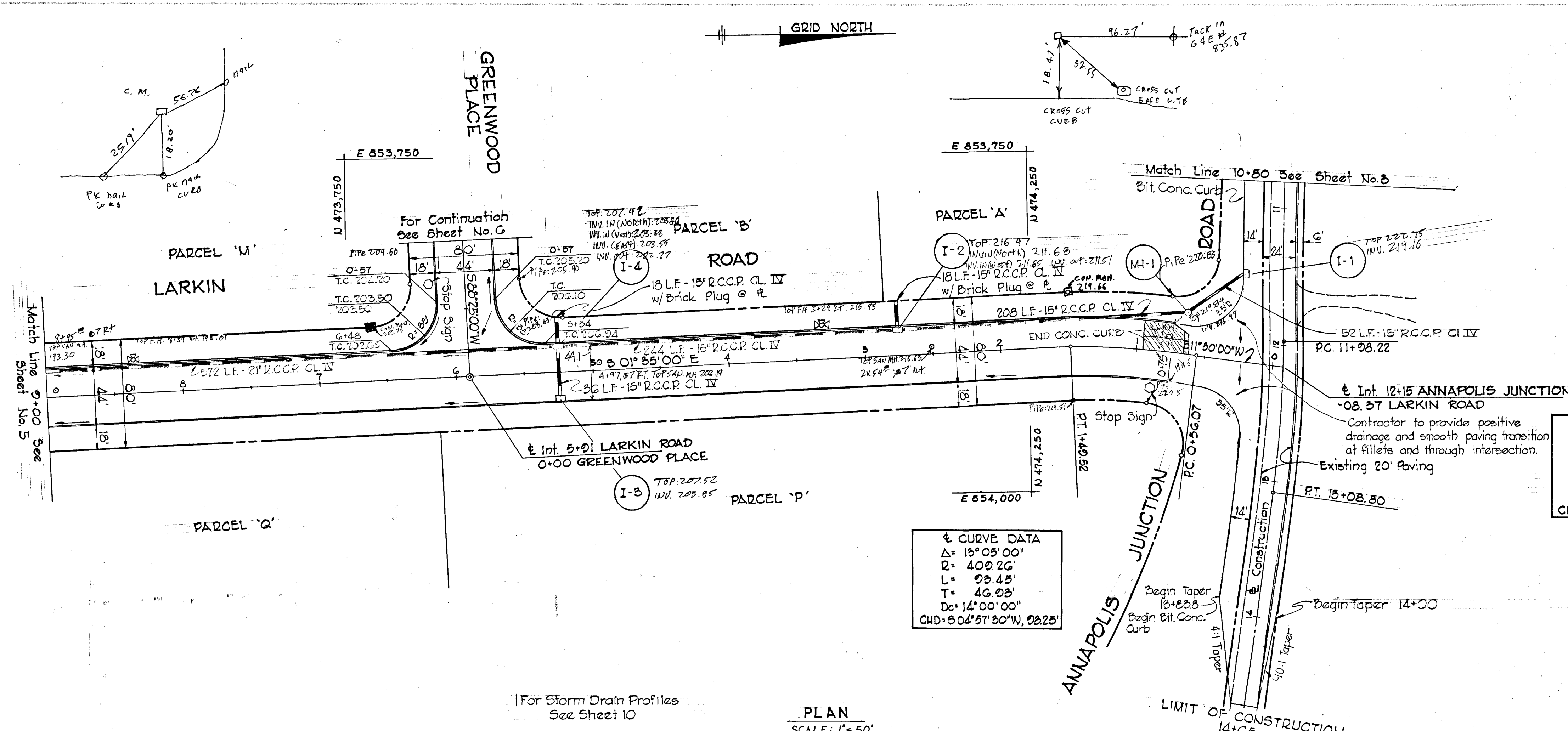
**SECTION 'D-D'**  
 No Scale

DEPARTMENT OF PUBLIC WORKS	
<i>B. H. McKeand</i>	6/11/75
CHIEF, BUREAU OF HIGHWAYS	DATE
OFFICE OF PLANNING AND ZONING	
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING	DATE
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204	
Rev. Date	Rev. No. Revision Description
CORRIDOR INDUSTRIAL PARK 6th ELECTION DISTRICT HOWARD COUNTY OWNER AND DEVELOPER COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION COLUMBIA, MARYLAND	
PROJECT AREA	CORRIDOR INDUSTRIAL PARK - SECTION I
PROJECT TITLE	TYPICAL SECTIONS & DETAILS
Des. By F.T.	Scale AS SHOWN
Drn. By L.J.D.	Date 1-31-75
Chk. By F.T.	Approved









STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	DBLE. 'S' COMB.	11+45 - RT.	--	219.02	*	HO. CO. STD., D-99, PG. 154
I-2	DBLE. 'S' COMB.	2+75 - RT.	211.66	211.46	216.19	HO. CO. STD., D-99, PG. 154
I-3	DBLE. 'S' COMB.	5+25 - LT.	--	203.63	207.27	HO. CO. STD., D-99, PG. 154
I-4	DBLE. 'S' COMB.	5+25 - RT.	203.36	202.86	207.27	HO. CO. STD., D-99, PG. 154
MH-1	'C' MANHOLE	0+66 - 31' RT.	216.02	215.82	218.70	SEE DWG. NO. 2

\* TO BE CONSTRUCTED WITHOUT CURB PIECE. GRATE ELEVATION TO BE SET IN THE FIELD TO INSURE POSITIVE DRAINAGE AND UNIFORM CROSS SLOPE OF ANNAPOLIS JUNCTION ROAD.

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/20/75  
*[Signature]*

DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 6/10/75  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 DATE

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

Rev. Date	Rev. No.	Revision Description

**CORRIDOR INDUSTRIAL PARK**  
 6<sup>th</sup> ELECTION DISTRICT HOWARD COUNTY  
 OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 COLUMBIA, MARYLAND

PROJECT AREA  
 CORRIDOR INDUSTRIAL PARK - SECTION I

PROJECT TITLE  
 PLAN AND PROFILE  
 LARKIN ROAD

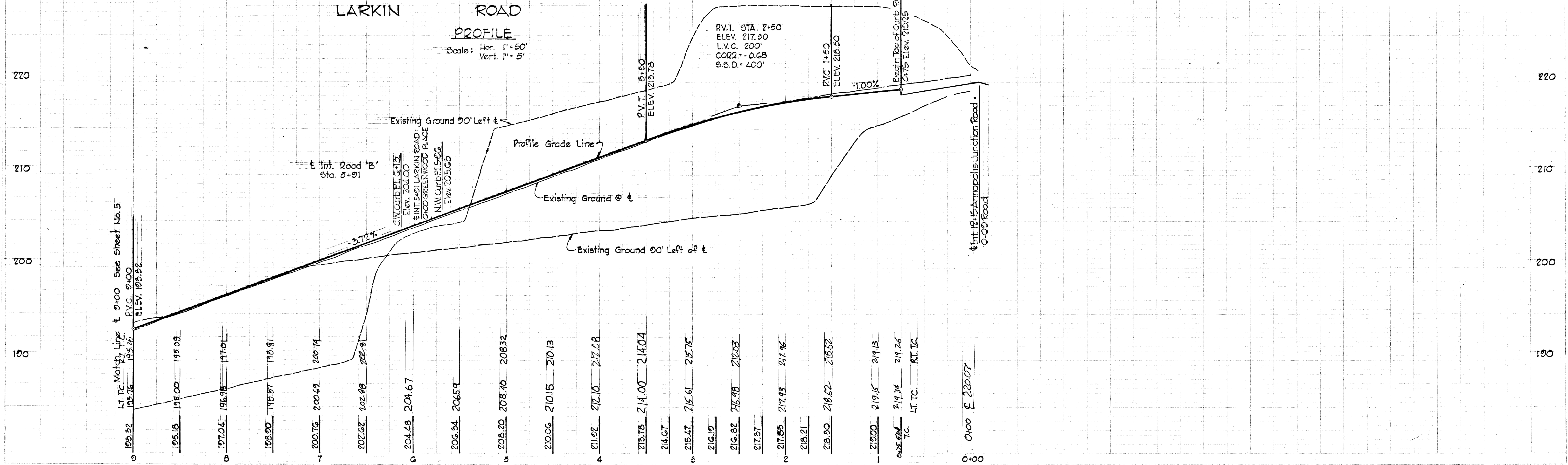
Des. By	F.T.	Scale	AS SHOWN	Dwg. No.	4
Drn. By	L.J.D.	Date	1-31-75	C.C.F. No.	
Chk. By	F.T.	Approved			

1-31-75  
 DATE  
  
 ENGINEER REG. NO. 5407

PLAN  
 SCALE: 1" = 50'

For Storm Drain Profiles  
 See Sheet 10

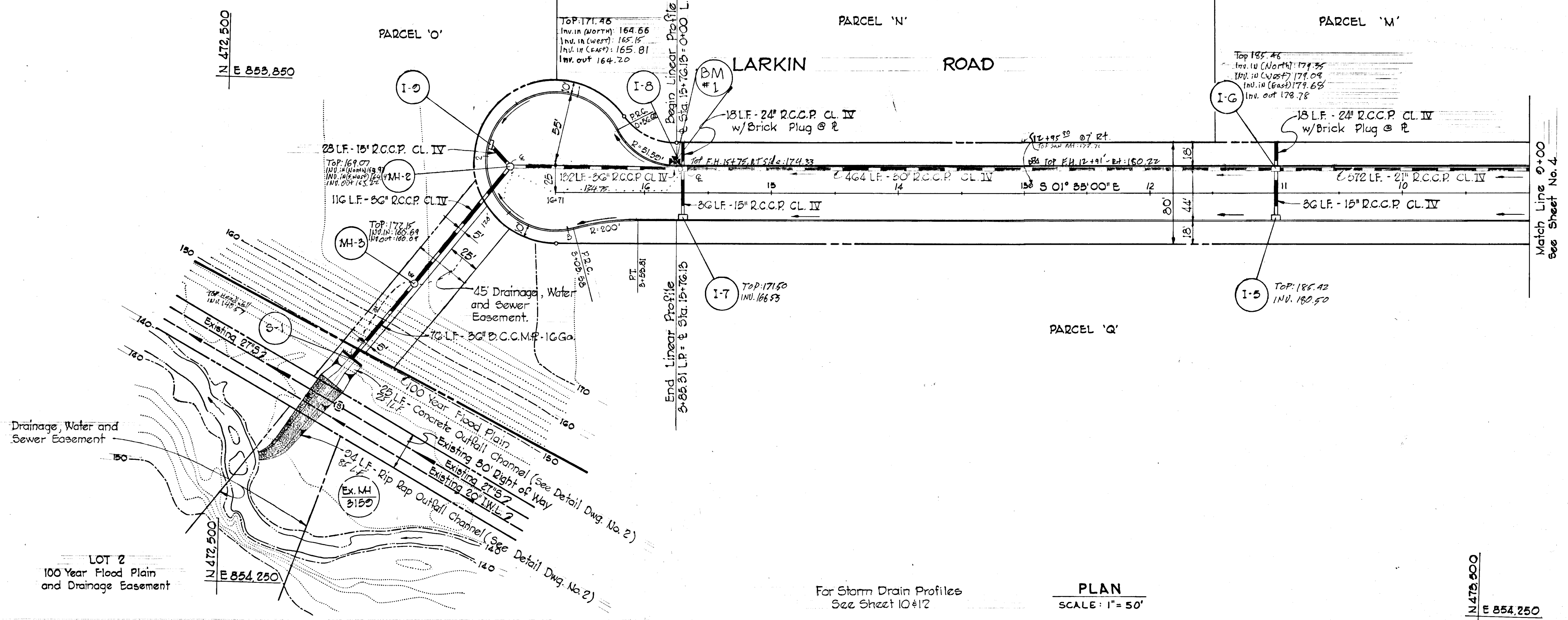
LARKIN ROAD  
 PROFILE  
 Scale: Hor. 1" = 50'  
 Vert. 1" = 5'



AS Bolt 2/18/80  
 J.R.C. F-75-57



GRID NORTH



For Storm Drain Profiles  
See Sheet 10#12

PLAN  
SCALE: 1" = 50'

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-5	DBLE. 'S' COMB.	11+00 - LT.	--	180.47	185.46	HO. CO. STD., D-99, PG. 154
I-6	DBLE. 'S' COMB.	11+00 - RT.	179.25	178.50	185.46	HO. CO. STD., D-99, PG. 154
I-7	DBLE. 'S' COMB.	15+70 - LT.	--	166.47	171.50	HO. CO. STD., D-99, PG. 154
I-8	DBLE. 'S' COMB.	15+70 - RT.	164.50	164.00	171.50	HO. CO. STD., D-99, PG. 154
I-9	DBLE. 'S' COMB.	1+92.57 - LINEAR PROFILE	--	164.61	168.36	USE 12" WALLS
MH-2	STD. MANHOLE	2+08 - 19" LT. LINEAR PROF.	162.72	162.52	168.46	HO. CO. STD., D-103, PG. 158
MH-3	STD. MANHOLE	*	160.20	160.00	*	HO. CO. STD., D-103, PG. 158
S-1	'C' ENDWALL	*	140.54	--	*	HO. CO. STD., D-52, PG. 107

\* STRUCTURES ARE TO BE LOCATED TO FIT EXISTING SLOPE UNDER THE DIRECTION OF THE ENGINEER IN THE FIELD.

APPROVED  
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/20/75  
J.K.C.

DEPARTMENT OF PUBLIC WORKS  
S. W. McLeod 6/10/75  
CHIEF, BUREAU OF HIGHWAYS  
DATE

OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
DATE  
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204

Rev. Date	Rev. No.	Revision Description

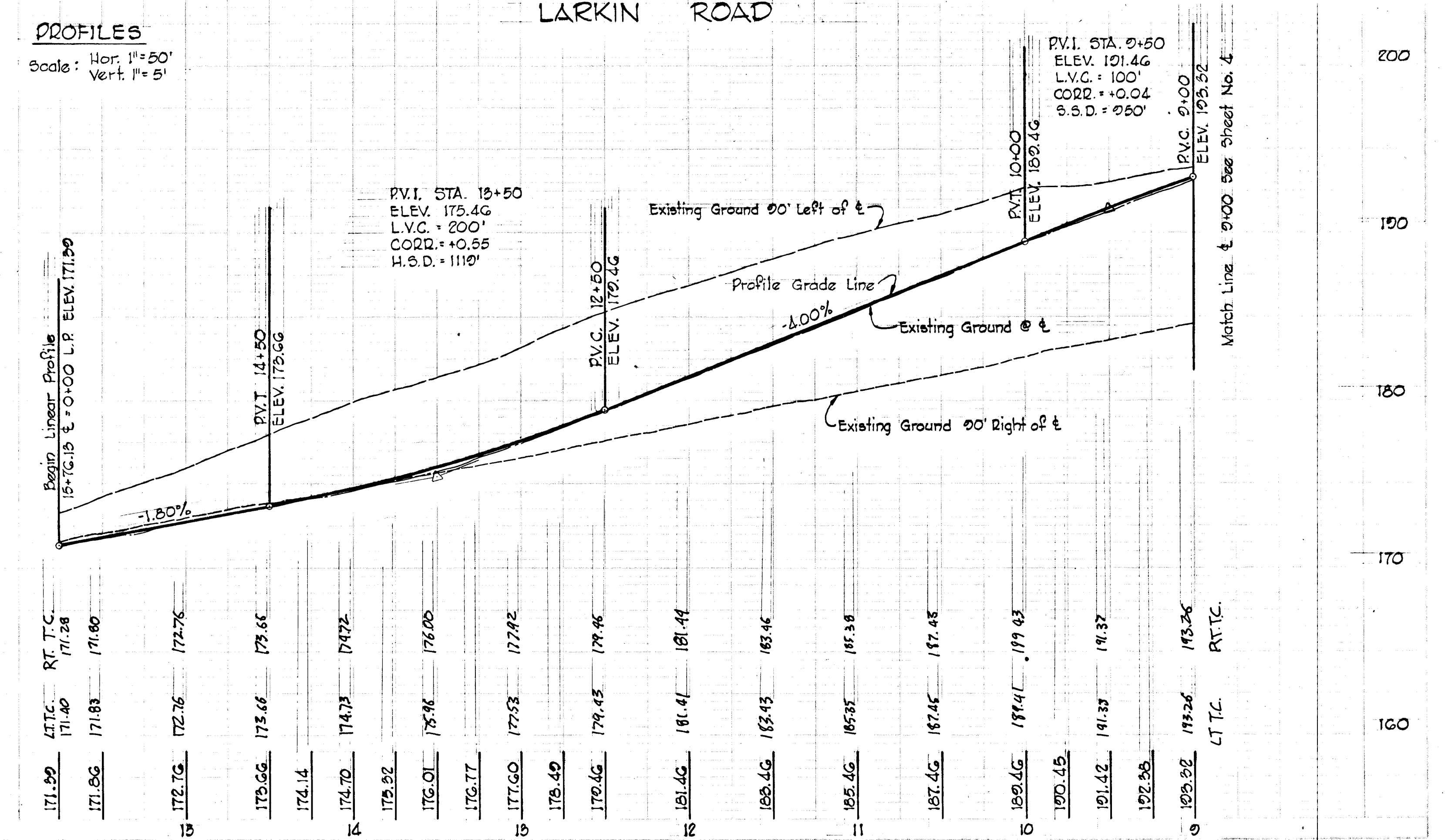
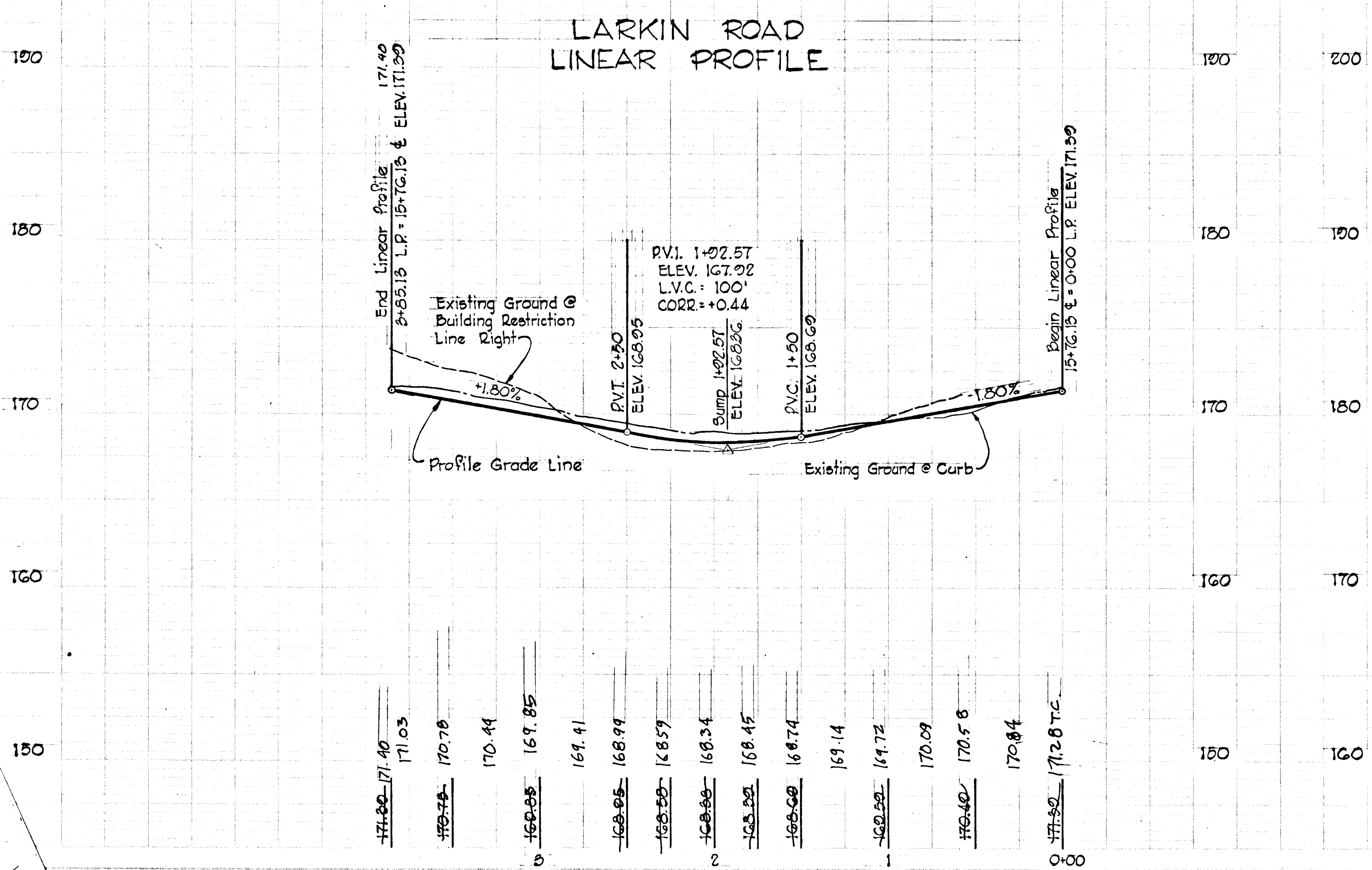
CORRIDOR INDUSTRIAL PARK  
6th ELECTION DISTRICT HOWARD COUNTY  
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
COLUMBIA, MARYLAND

1-31-75  
DATE  
STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
Robert C. Smith  
ENGINEER REG. NO. 5407

PROJECT AREA  
CORRIDOR INDUSTRIAL PARK - SECTION I

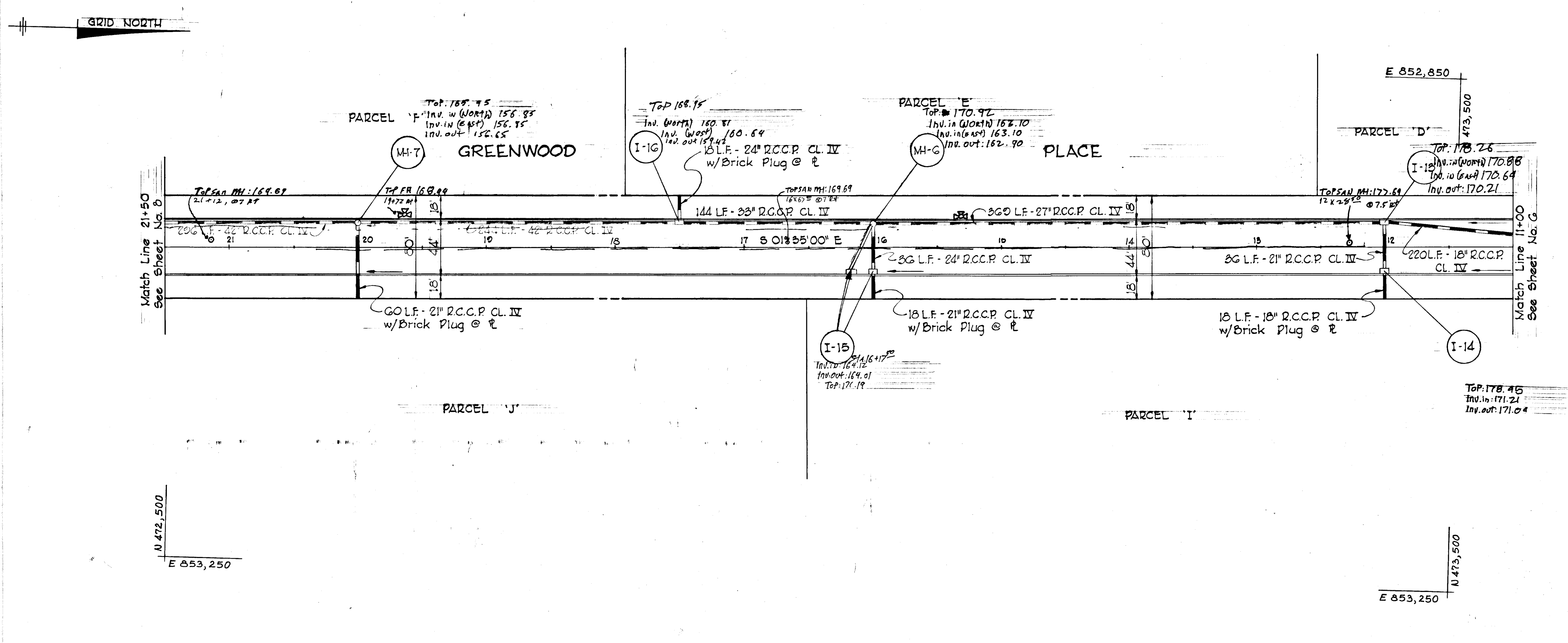
PROJECT TITLE  
PLAN AND PROFILE  
LARKIN ROAD

Des. By	F. T.	Scale	AS SHOWN	Dwg. No.	5
Drn. By	L. J. D.	Date	1-31-75	C.C.F. No.	
Chk. By	F. T.	Approved			









STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-13	DBLE. 'S' COMB.	12+00 - RT.	170.83	170.08	178.36	HO. CO. STD., D-99, PG. 154
I-14	DBLE. 'S' COMB.	12+00 - LT.	171.19	170.94	178.36	HO. CO. STD., D-99, PG. 154
I-15	DBLE. 'S' COMB.	16+00 - LT.	164.13	163.88	171.48	HO. CO. STD., D-99, PG. 154
I-16	DBLE. 'S' COMB.	17+50 - RT.	160.06	159.31	168.90	SEE DWG. NO. 2
MH-6	STD. MANHOLE	16+00 - RT.	163.27	162.77	171.03	HO. CO. STD., D-103, PG. 158
MH-7	'C' MANHOLE	20+00 - RT.	156.87	156.67	165.59	SEE DWG. NO. 2

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/29/75  
*J. Kelly*

DEPARTMENT OF PUBLIC WORKS  
*S. M. McKeand* 6/10/75  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE  
 CENTURY ENGINEERING, INC.  
 CONSULTING ENGINEERS PLANNERS  
 TOWSON, MARYLAND 21204

Rev. Date	Rev. No.	Revision Description

**CORRIDOR INDUSTRIAL PARK**  
 6<sup>th</sup> ELECTION DISTRICT HOWARD COUNTY  
 OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 COLUMBIA, MARYLAND

PROJECT AREA  
 CORRIDOR INDUSTRIAL PARK - SECTION I

PROJECT TITLE  
 PLAN AND PROFILE  
 GREENWOOD PLACE

Des. By F. T.	Scale AS SHOWN	Dwg. No. 7
Drn. By L. J. D.	Date 1-31-75	c.c.f. NO.
Chk. By F. T.	Approved	

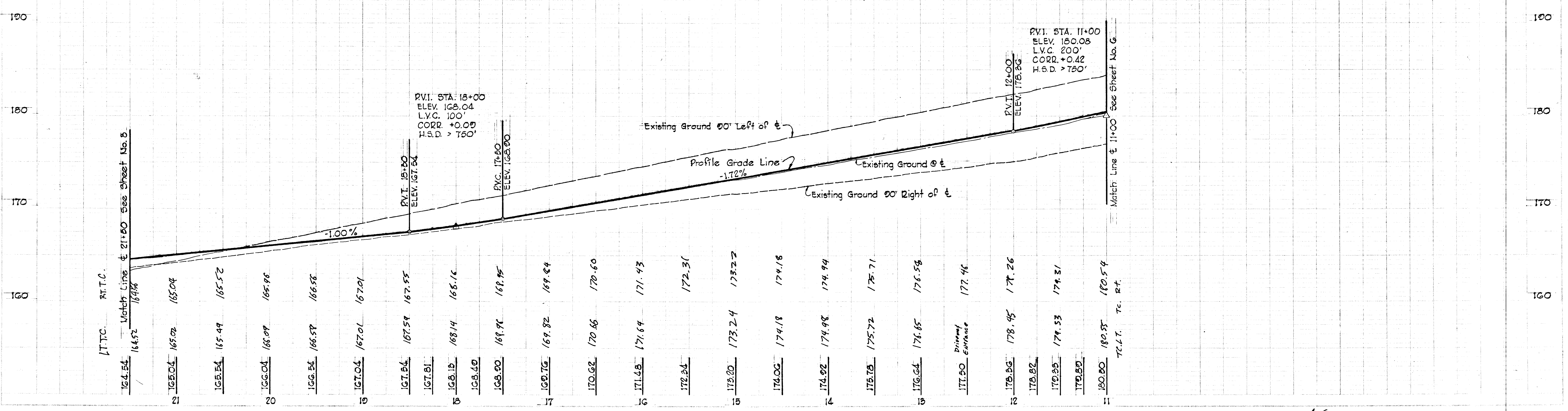
1-31-75  
 DATE  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
*Robert C. Dick*  
 ENGINEER REG. NO. 5407

For Storm Drain Profiles  
 See Sheet 11 & 12

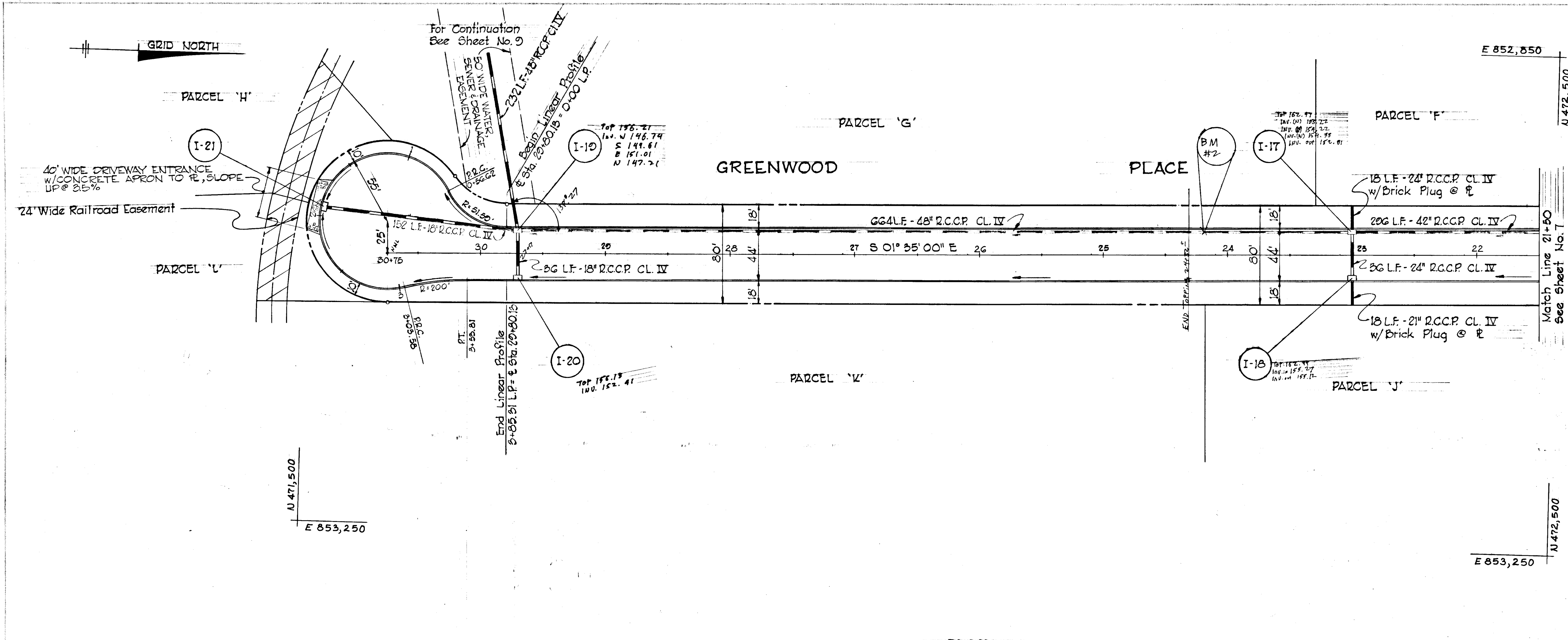
PLAN  
 SCALE: 1" = 50'

GREENWOOD PLACE  
 PROFILE

Scale: Hor. 1" = 50'  
 Vert. 1" = 5'







STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-17	DBLE. 'S' COMB.	23+00 - RT.	153.00	152.00	163.04	SEE DWG. NO. 2
I-18	DBLE. 'S' COMB.	23+00 - LT.	135.11	154.86	163.04	HO.CO.STD., D-99, PG. 154
I-19	DBLE. 'S' COMB.	29+70 - RT.	147.19	146.99	156.34	SEE DWG. NO. 2
I-20	DBLE. 'S' COMB.	29+70 - LT.	--	151.86	156.34	HO.CO.STD., D-99, PG. 154
I-21	DBLE. 'S' COMB.	1+92.57 LINEAR PROFILE	--	150.71	154.56	HO.CO.STD., D-99, PG. 154

DEPARTMENT OF PUBLIC WORKS

*G. H. P. [Signature]* 6/10/75  
 CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

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

Rev. Date	Rev. No.	Revision Description

**CORRIDOR INDUSTRIAL PARK**  
 6<sup>th</sup> ELECTION DISTRICT HOWARD COUNTY

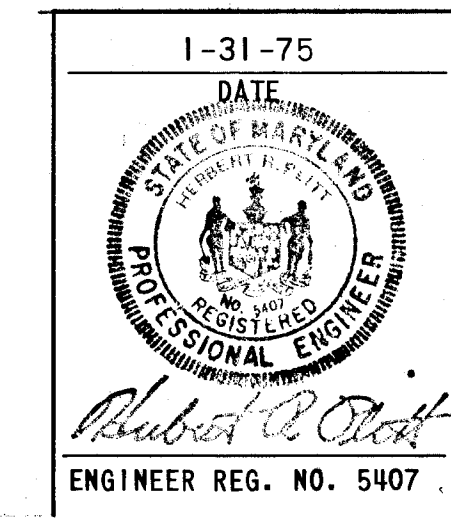
OWNER AND DEVELOPER  
**COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION**  
 COLUMBIA, MARYLAND

PROJECT AREA  
**CORRIDOR INDUSTRIAL PARK - SECTION I**

PROJECT TITLE  
**PLAN AND PROFILE GREENWOOD PLACE**

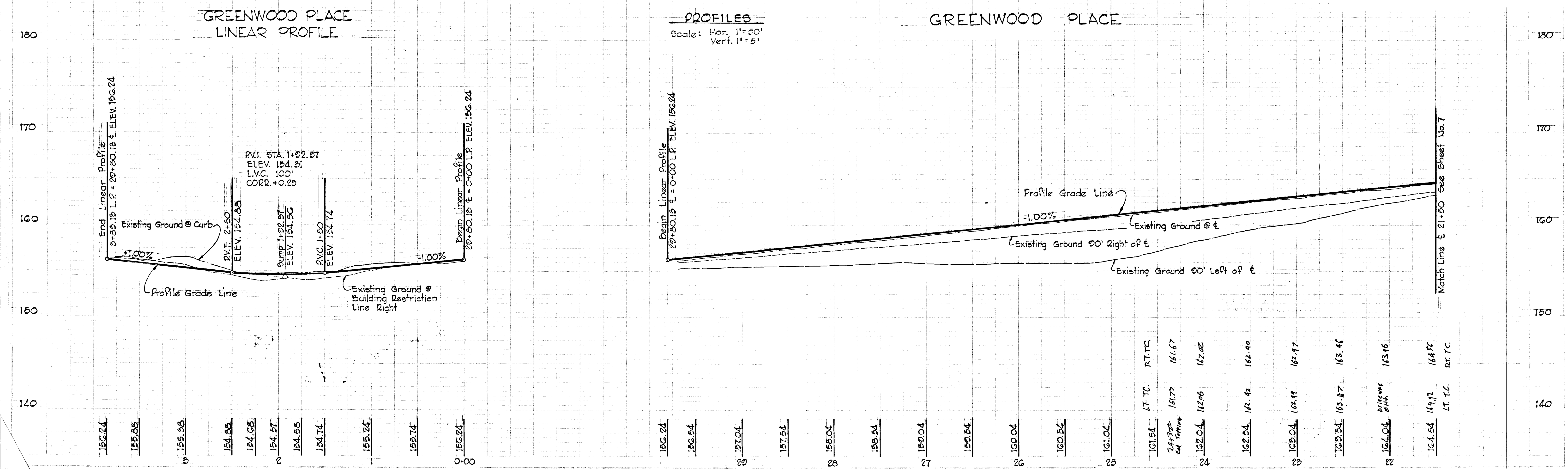
Des. By	F.T.	Scale	AS SHOWN	Dwg. No.	8
Drn. By	L.J.D.	Date	1-31-75	C.C.F. No.	
Chk. By	F.T.	Approved			

APPROVED  
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/20/75  
*[Signature]*



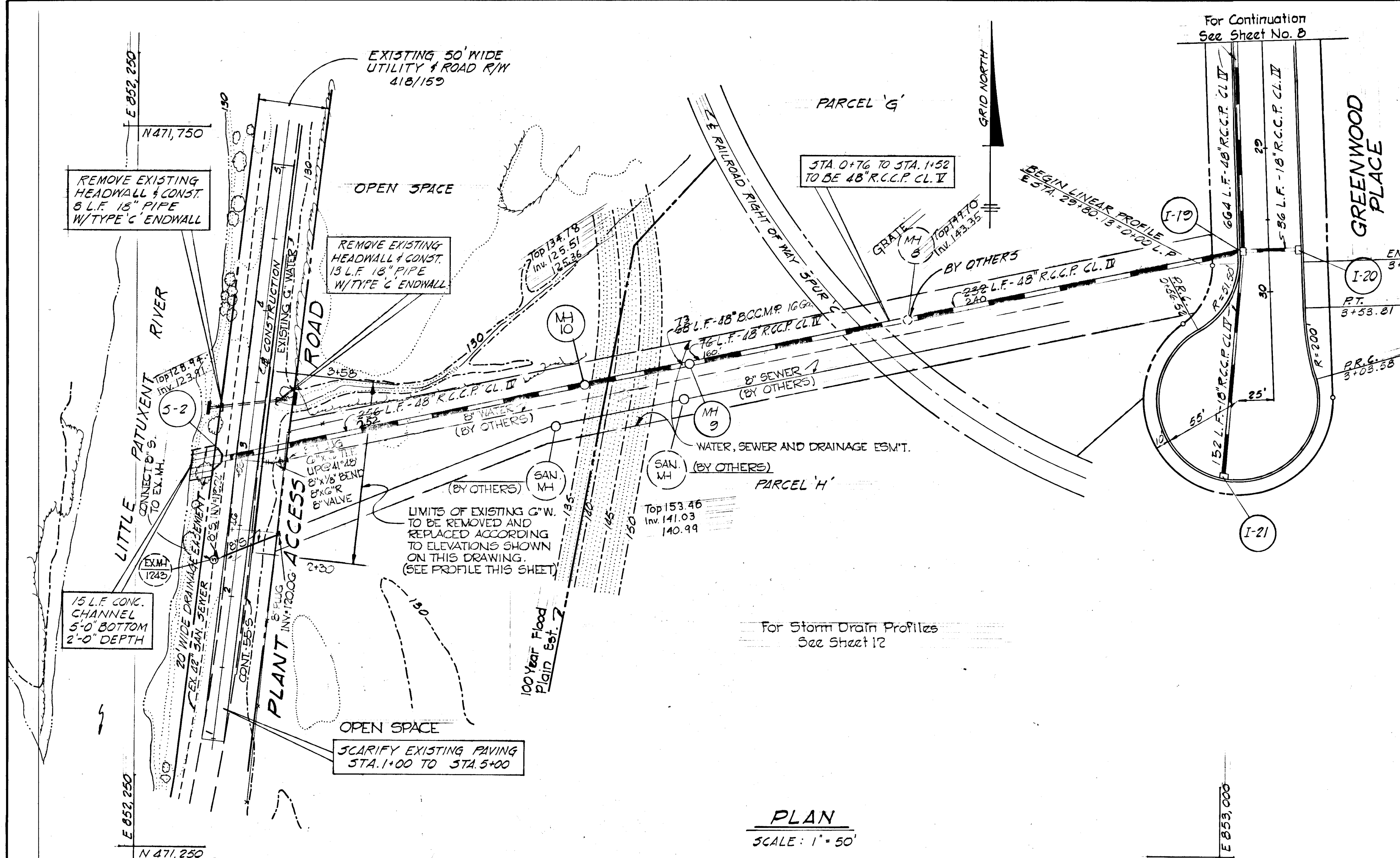
For Storm Drain Profiles See Sheet 11

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

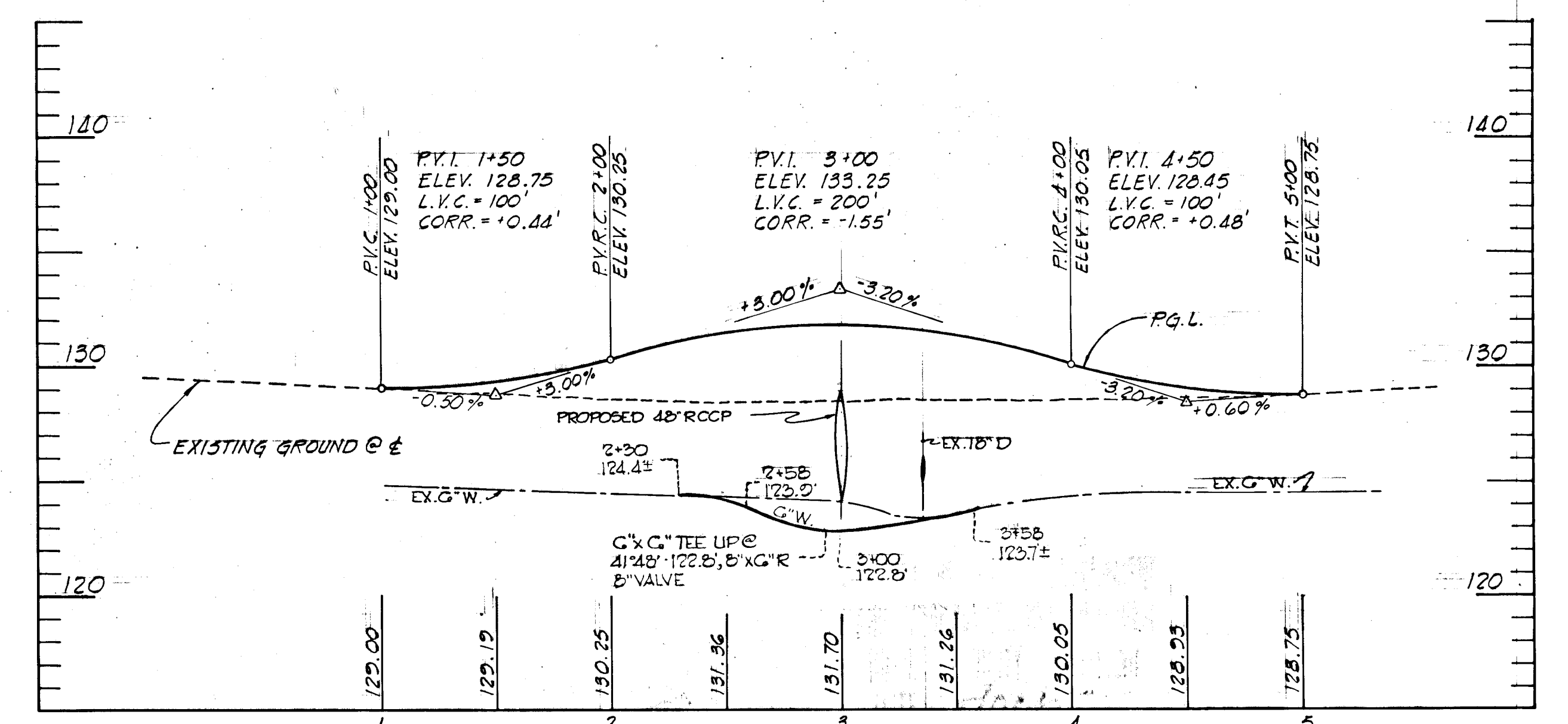


AS BUILT 2/19/81 J.K.O. F-75-57

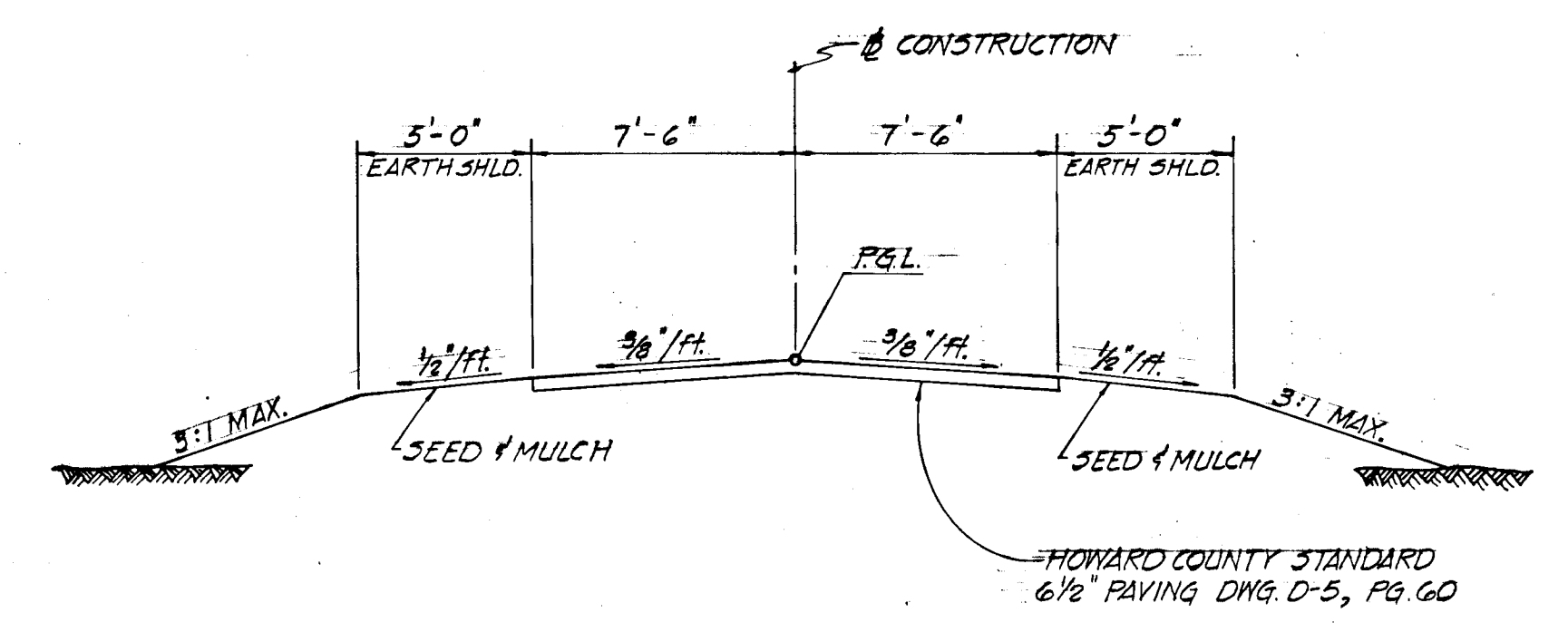




**PLAN**  
SCALE: 1" = 50'



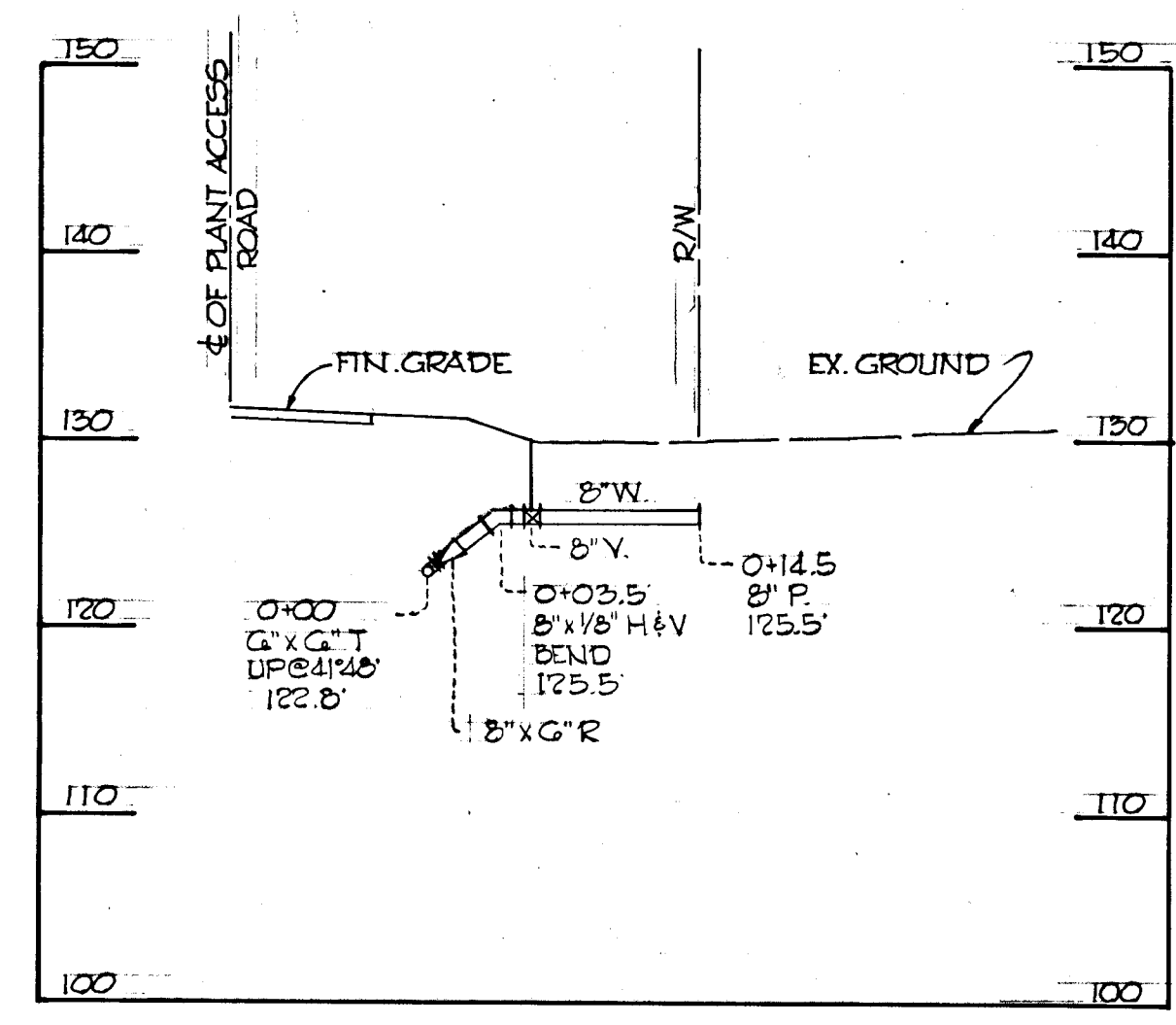
**PLANT ACCESS ROAD PROFILE**  
SCALE: HOR. 1" = 50', VERT. 1" = 5'



**TYPICAL SECTION**  
NOT TO SCALE

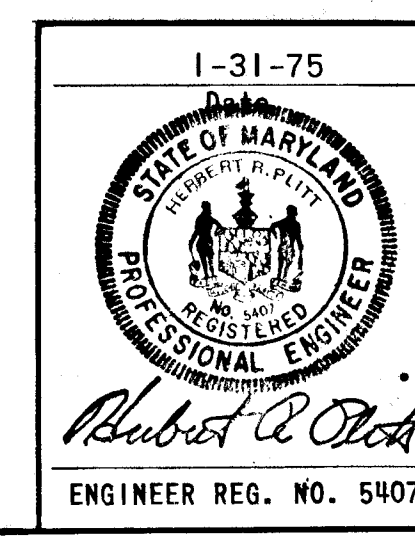
STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-19	(SPECIAL) DBLE. 'S' COMB.	29+70 - RT.	147.19	146.99	156.34	SEE DWG. NO. 2
MH-9	'C' MANHOLE	*	141.31	141.11	*	SEE DWG. NO. 2
MH-10	'C' MANHOLE	*	125.81	125.61	*	SEE DWG. NO. 2
S-2	'B'-48 HEADWALL	*	124.33	--	*	HO. CO. STD., D-48, PG. 103

\* STRUCTURES ARE TO BE LOCATED TO FIT EXISTING SLOPE UNDER THE DIRECTION OF THE ENGINEER IN THE FIELD



**PROFILE OF 8" WATER**  
SCALE: 1" = 10' HOR., 1" = 10' VERT.

APPROVED  
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/20/75  
*[Signature]*



DEPARTMENT OF PUBLIC WORKS  
*B. H. McKeand* 6/10/75  
CHIEF, BUREAU OF HIGHWAYS DATE  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE  
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204

Rev. Date	Rev. No.	Revision Description

**CORRIDOR INDUSTRIAL PARK**  
6<sup>th</sup> ELECTION DISTRICT HOWARD PARK  
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
COLUMBIA, MARYLAND

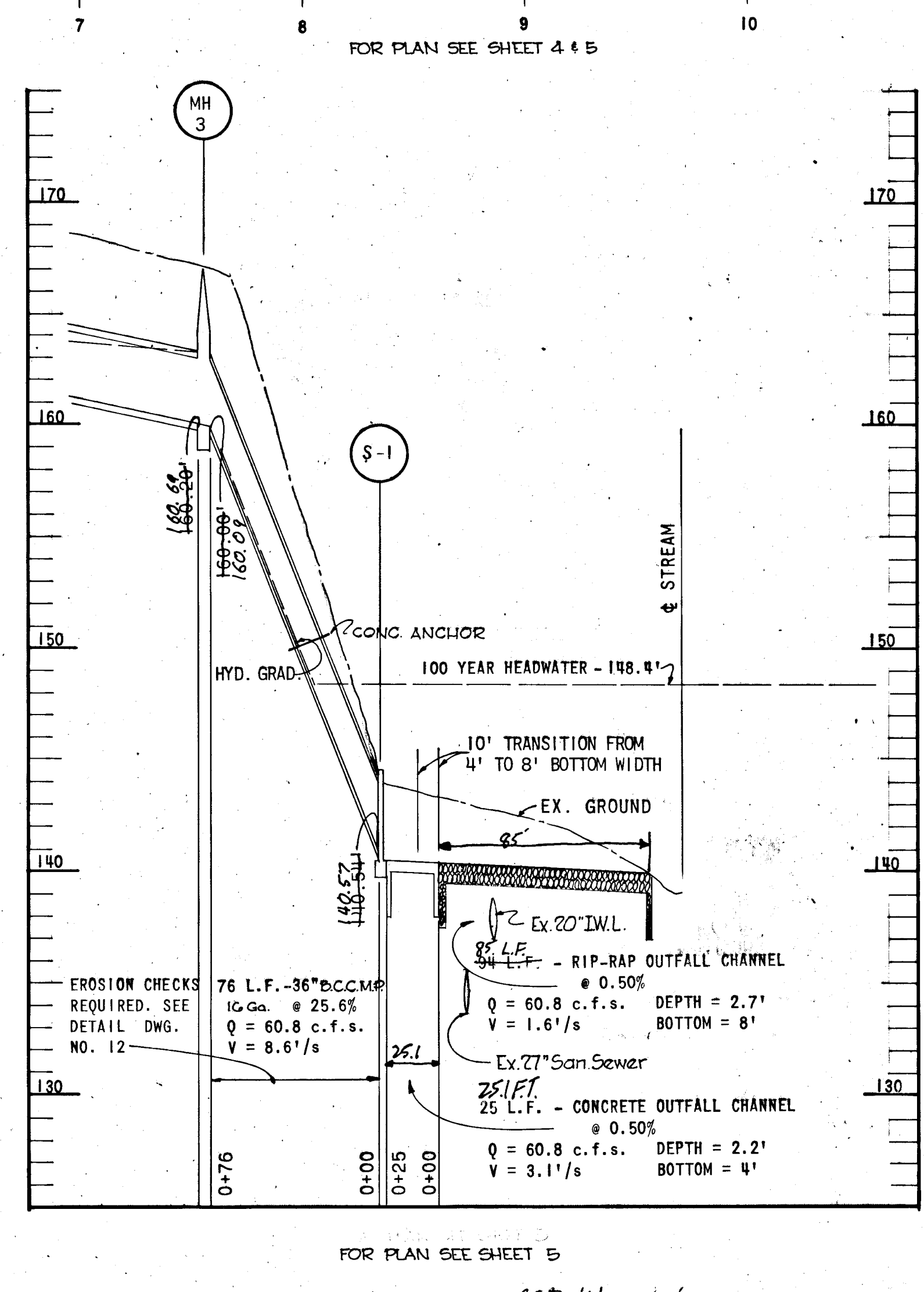
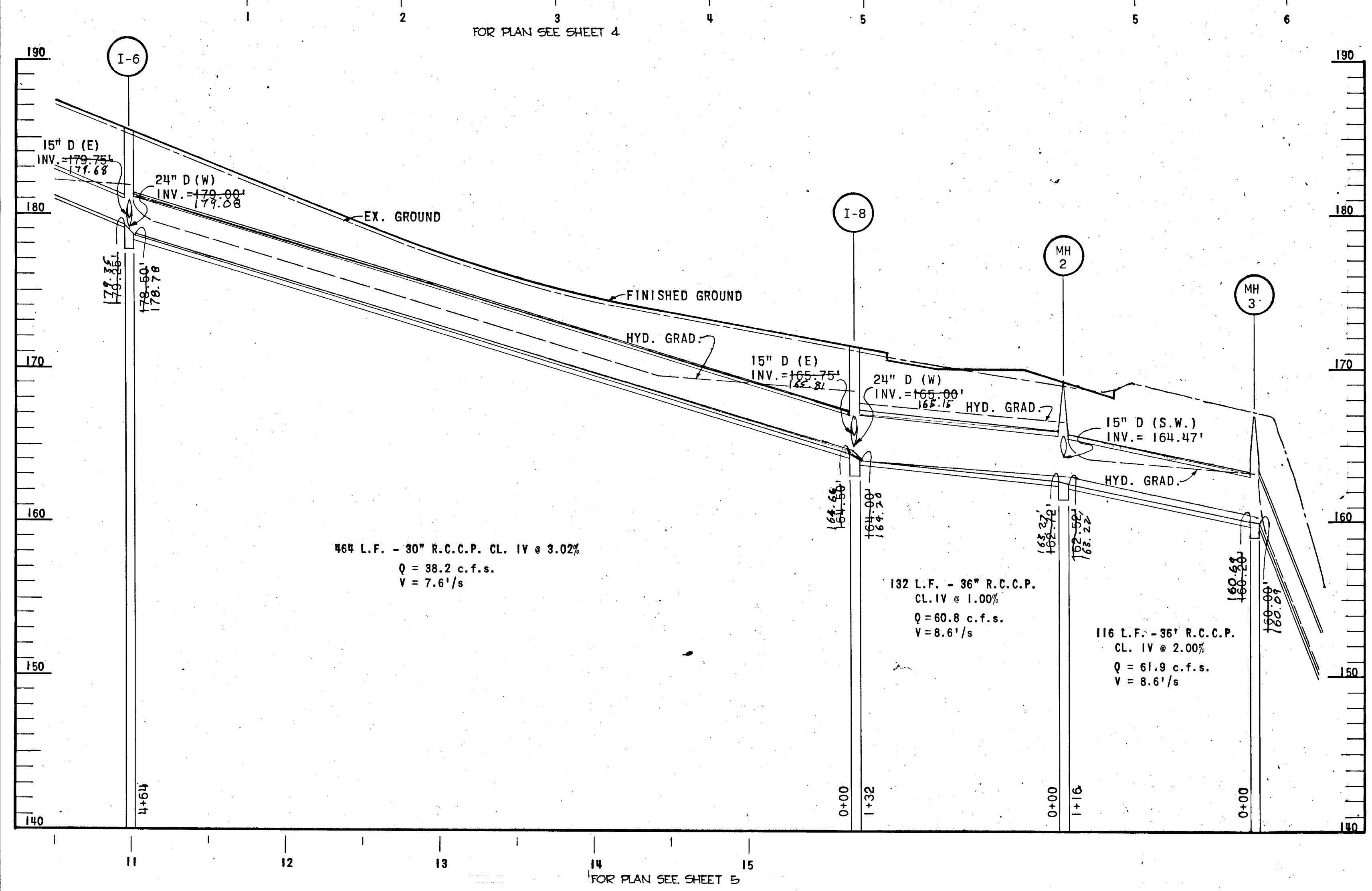
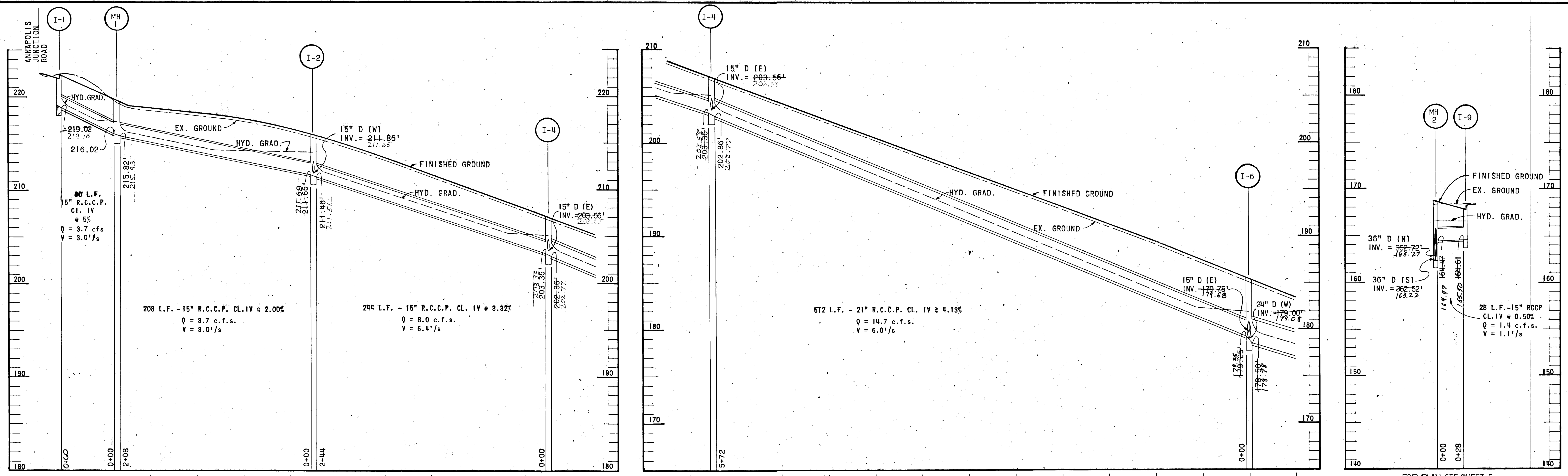
PROJECT AREA  
CORRIDOR INDUSTRIAL PARK - SECTION I

PROJECT TITLE  
CHANNEL OUTFALL GREENWOOD PLACE

Des. By	J. F. L.	Scale	AS SHOWN	Dwg. No.	9
Drn. By	J. F. L.	Date	1-31-75	C.C.F. No.	
Chk. By	A. W. R.	Approved			

AS BUILT 2/14/81 JRC.

F-75-57

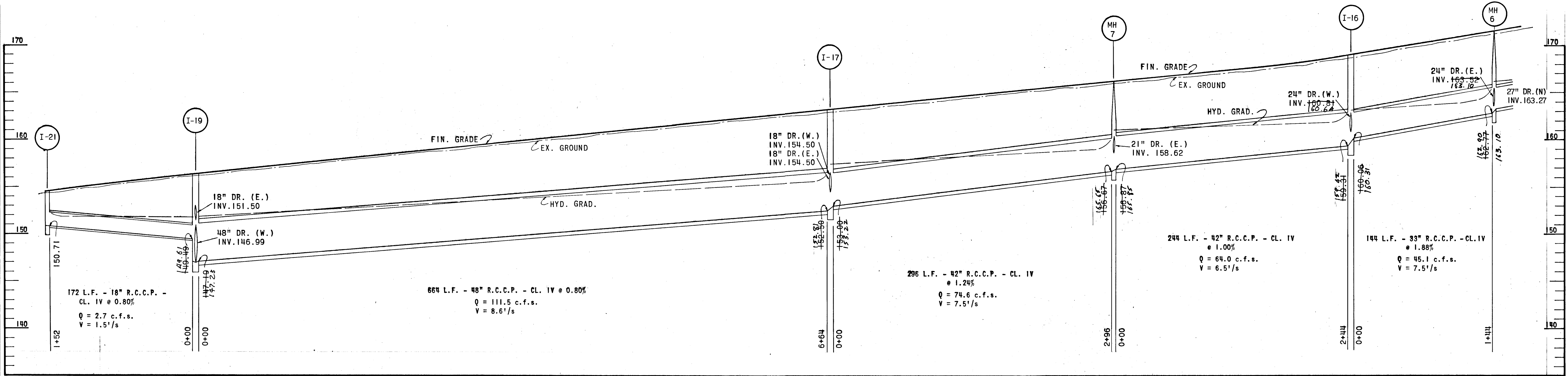


APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/20/75  
*[Signature]*

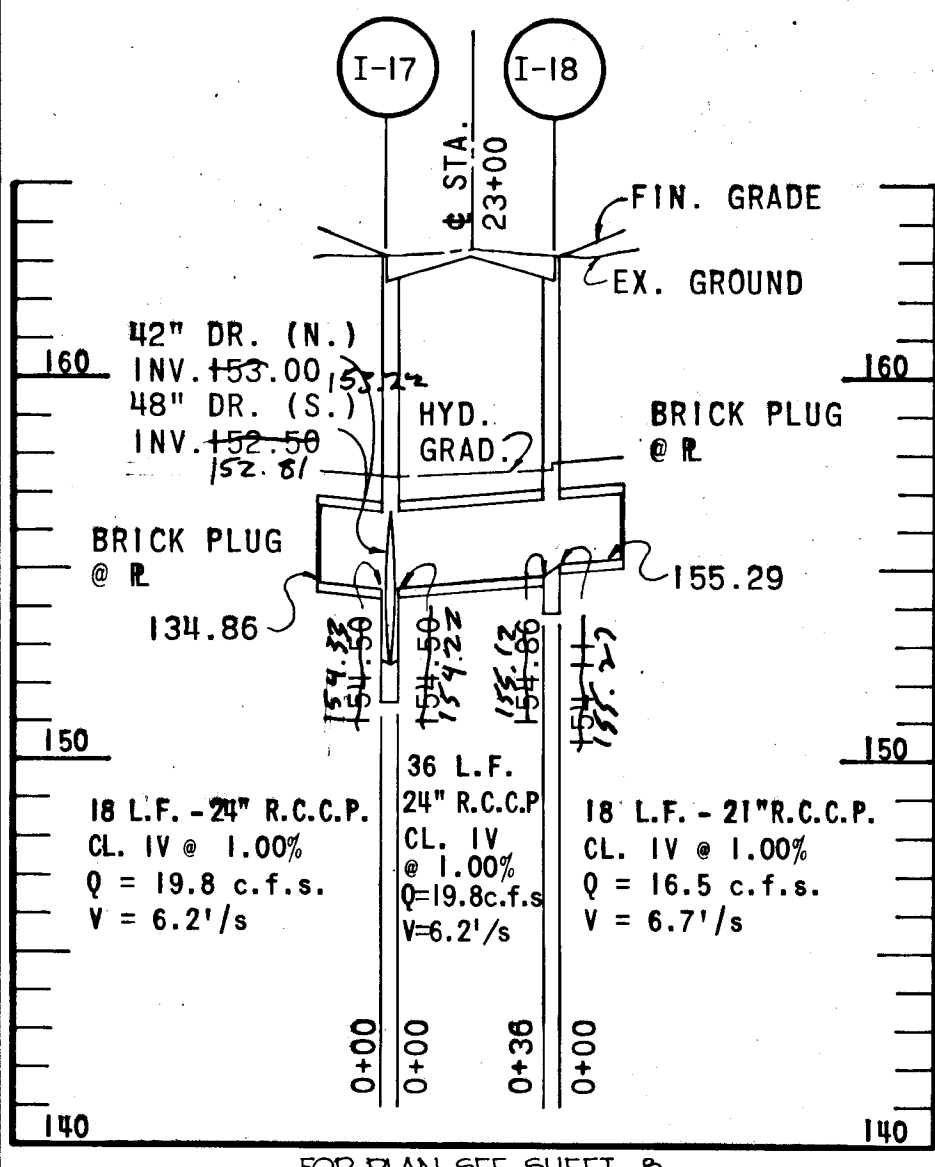
DEPARTMENT OF PUBLIC WORKS		
<i>B. M. McKeand</i> 6/10/75		DATE
CHIEF, BUREAU OF HIGHWAYS		
OFFICE OF PLANNING AND ZONING		
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING		DATE
CENTURY ENGINEERING INC. CONSULTING ENGINEERS PLANNERS TOWSON, MARYLAND 21204		
Rev. Date	Rev. No.	Revision Description
CORRIDOR INDUSTRIAL PARK 6 <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY OWNER AND DEVELOPER COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION COLUMBIA, MARYLAND		
PROJECT AREA CORRIDOR INDUSTRIAL PARK - SECTION I		
PROJECT TITLE STORM DRAIN PROFILES		
Des. By	A.W.R.	Scale 1" = 5' VERT. 1" = 50' HORIZ.
Drn. By	A.W.R.	Date 1-31-75
Chk. By	F.T.	Approved
ENGINEER REG. NO. 5407		Dwg. No. 10 C.C.F. No.

AS Bolt 2/19/81 J.R.C.

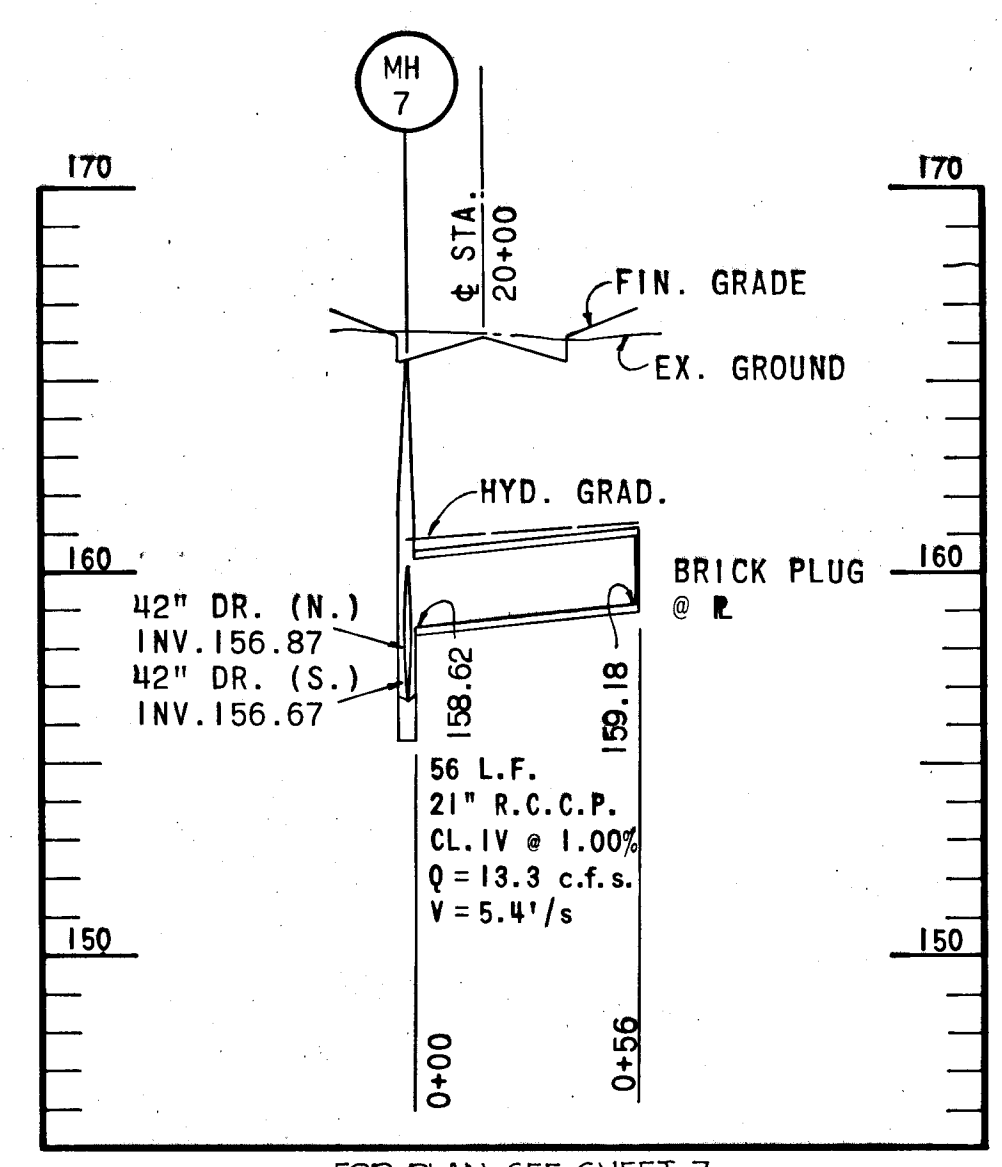




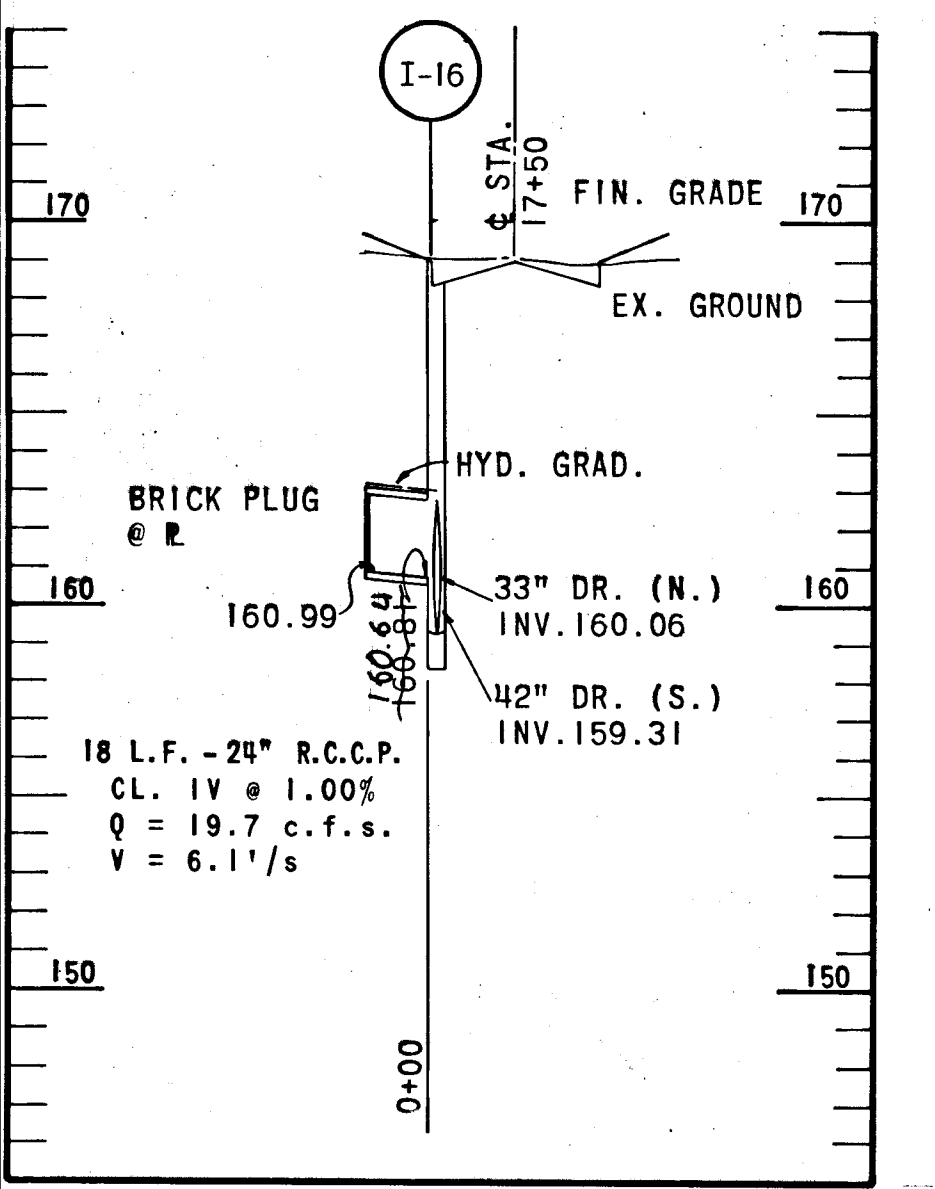
FOR PLAN SEE SHEET 7 & 8



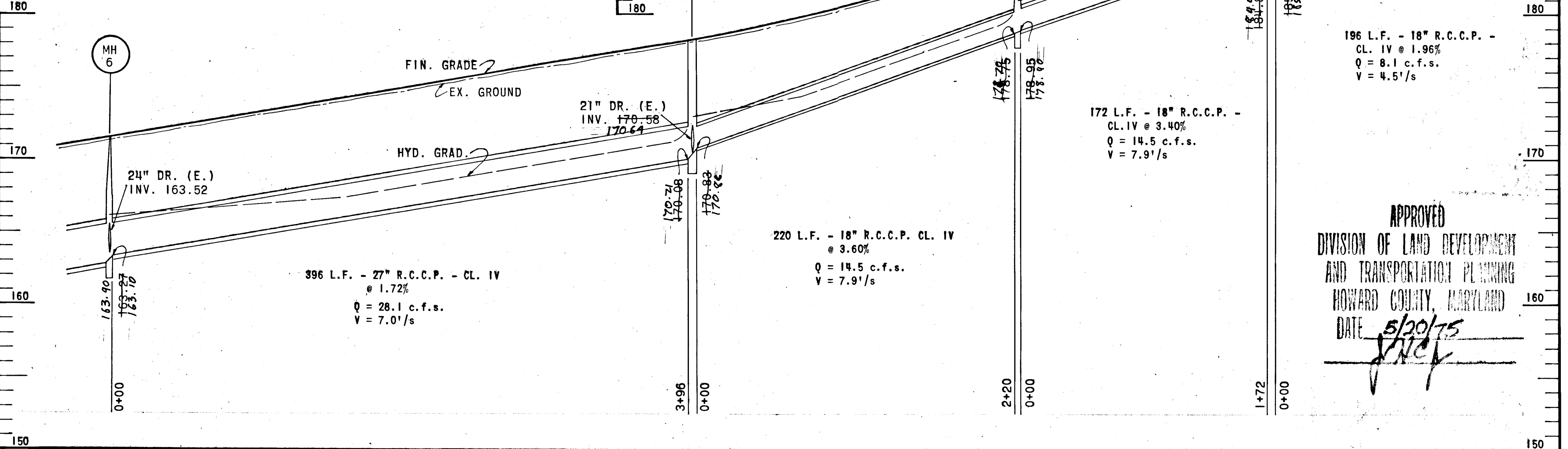
FOR PLAN SEE SHEET 8



FOR PLAN SEE SHEET 7

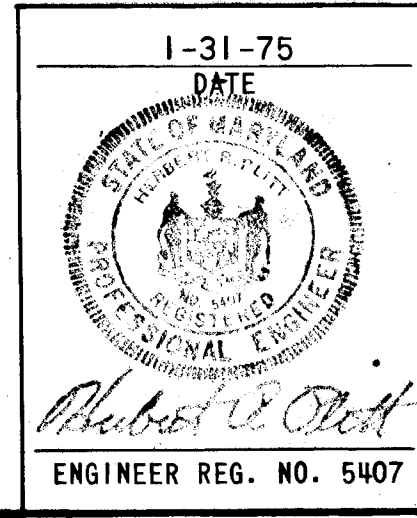


FOR PLAN SEE SHEET 7



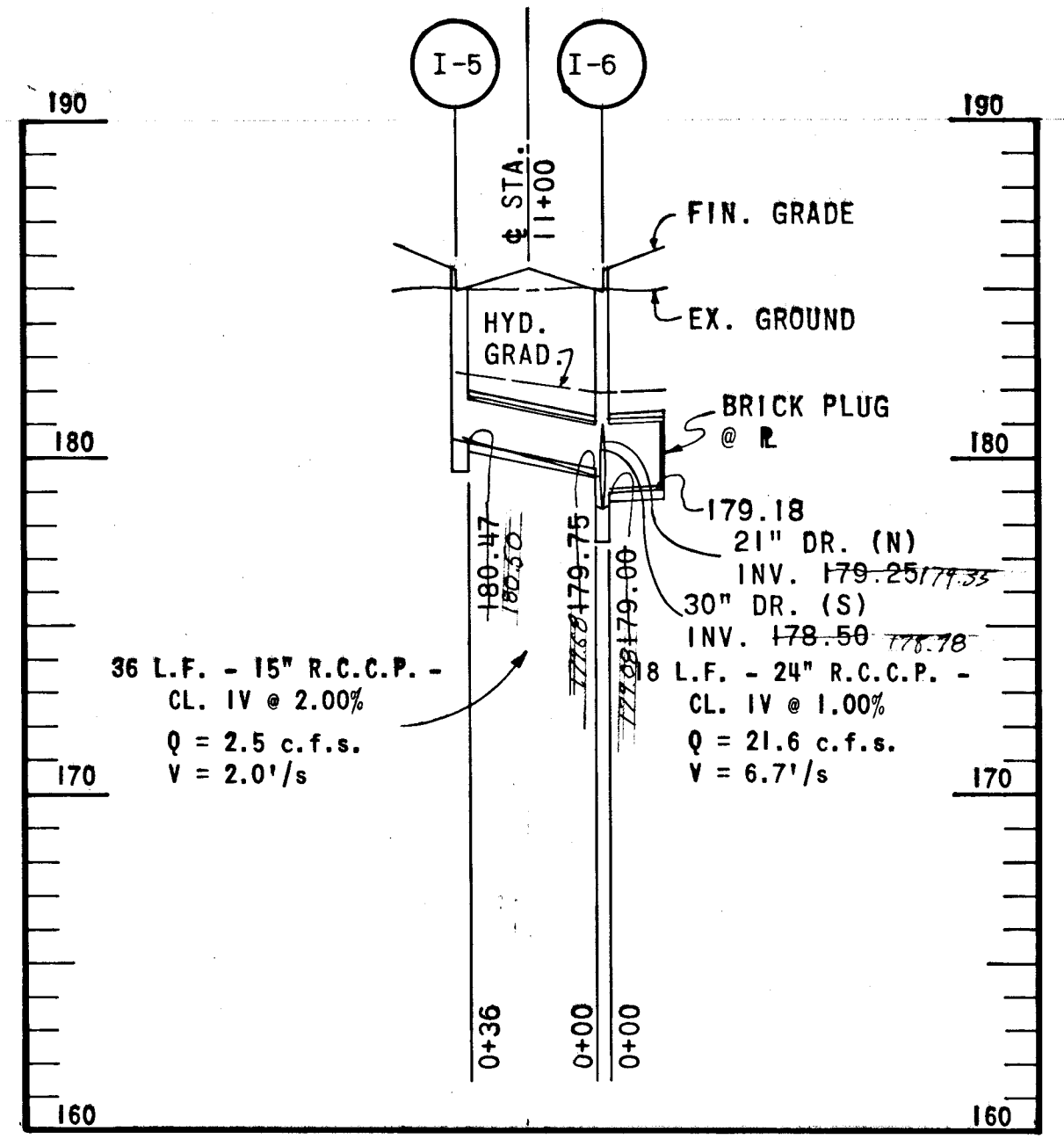
FOR PLAN SEE SHEET 6 & 7

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/20/75  
*[Signature]*

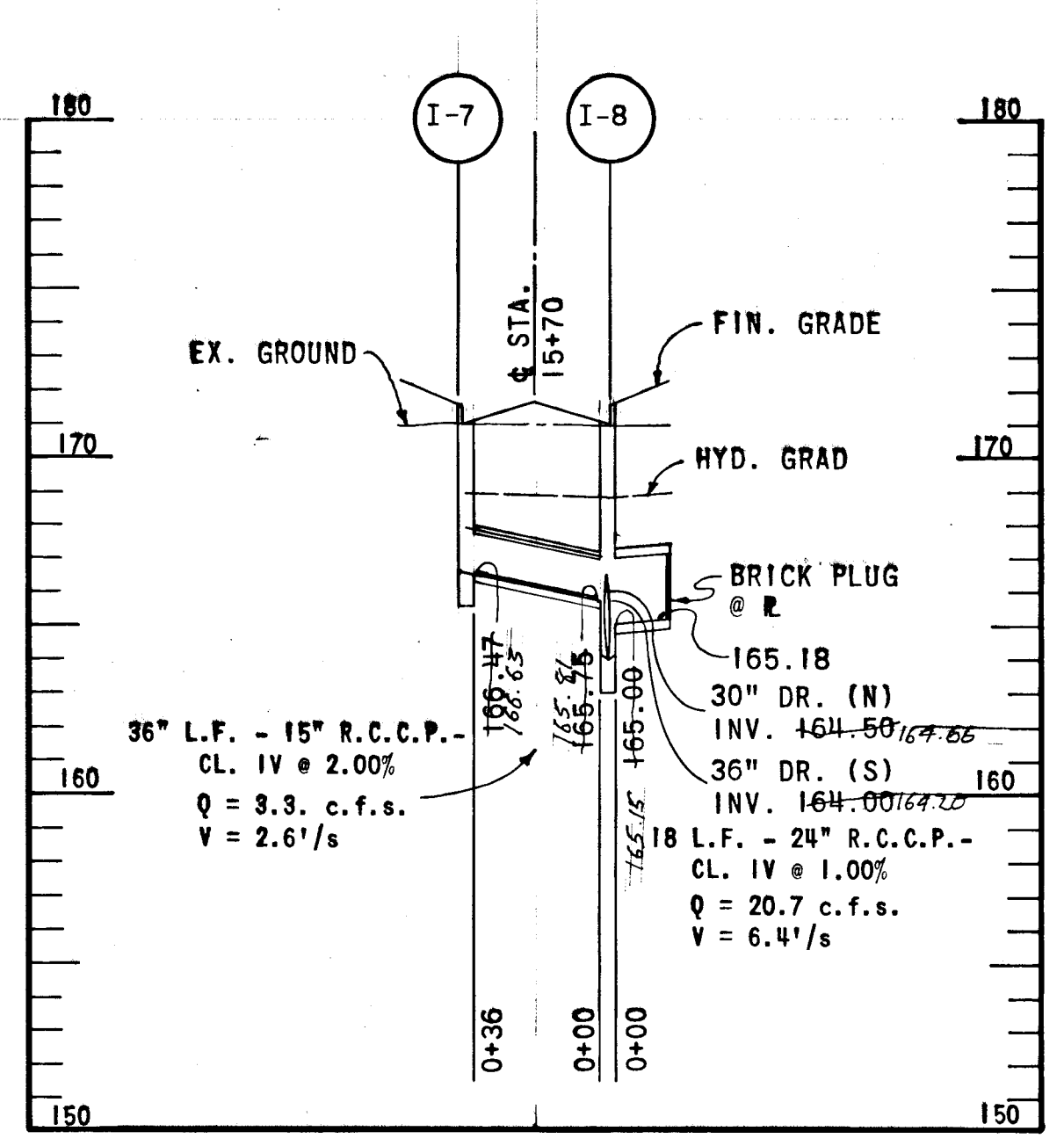


DEPARTMENT OF PUBLIC WORKS		
<i>S. M. McLeod</i>		6/10/75
CHIEF, BUREAU OF HIGHWAYS		DATE
OFFICE OF PLANNING AND ZONING		
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING		DATE
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS PLANNERS TOWSON, MARYLAND 21204		
Rev. Date	Rev. No.	Revision Description
CORRIDOR INDUSTRIAL PARK 6 <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY		
OWNER AND DEVELOPER COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION COLUMBIA, MARYLAND		
PROJECT AREA CORRIDOR INDUSTRIAL PARK - SECTION I		
PROJECT TITLE STORM DRAIN PROFILES		
Des. By	F.T.	Scale 1" = 5' VERT. 1" = 50' HORZ.
Drn. By	F.T.	Dwg. No. 11
Chk. By	A.W.R.	Date 1-31-75 C.C.F. No.
ENGINEER REG. NO. 5407		Approved

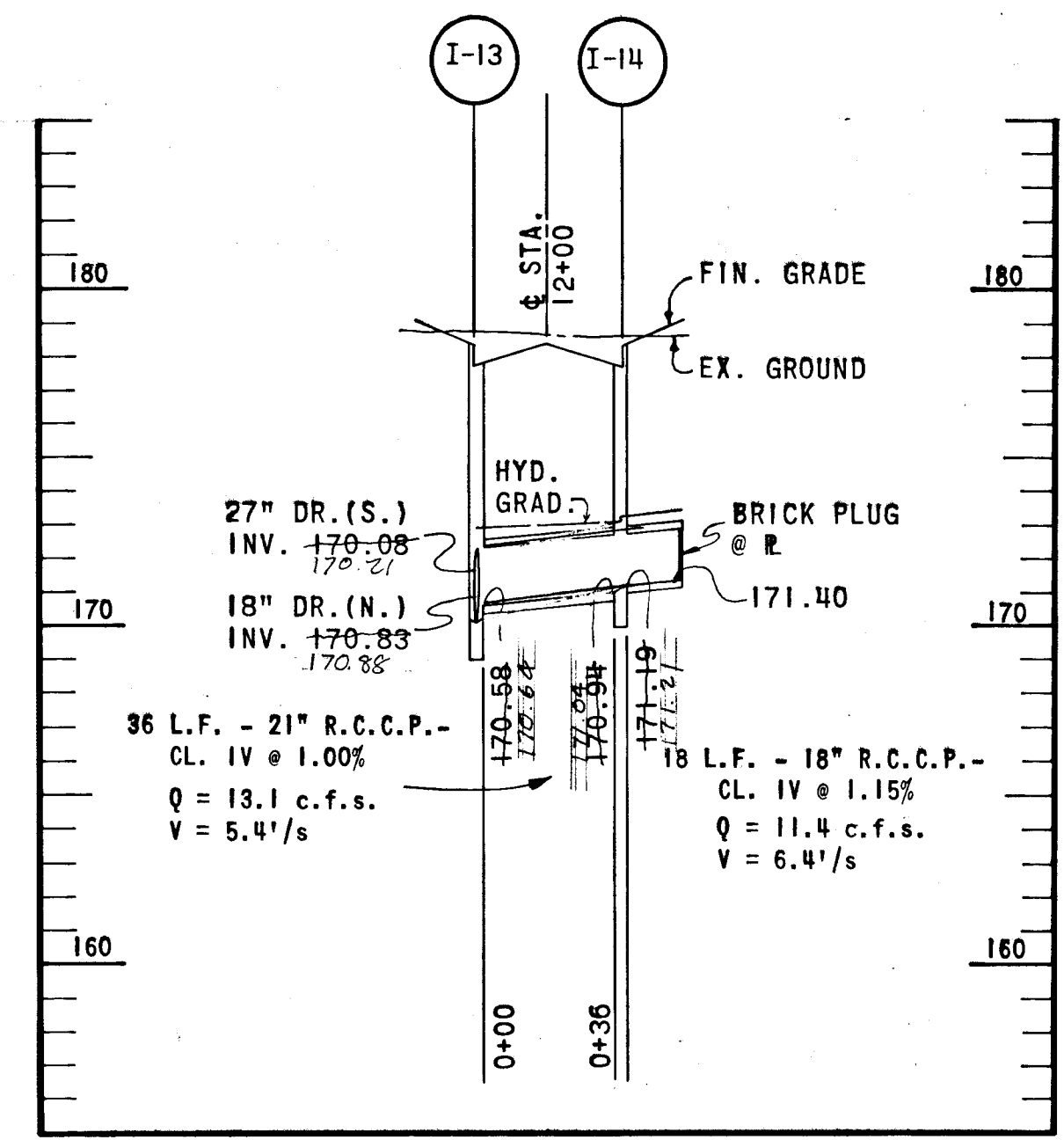
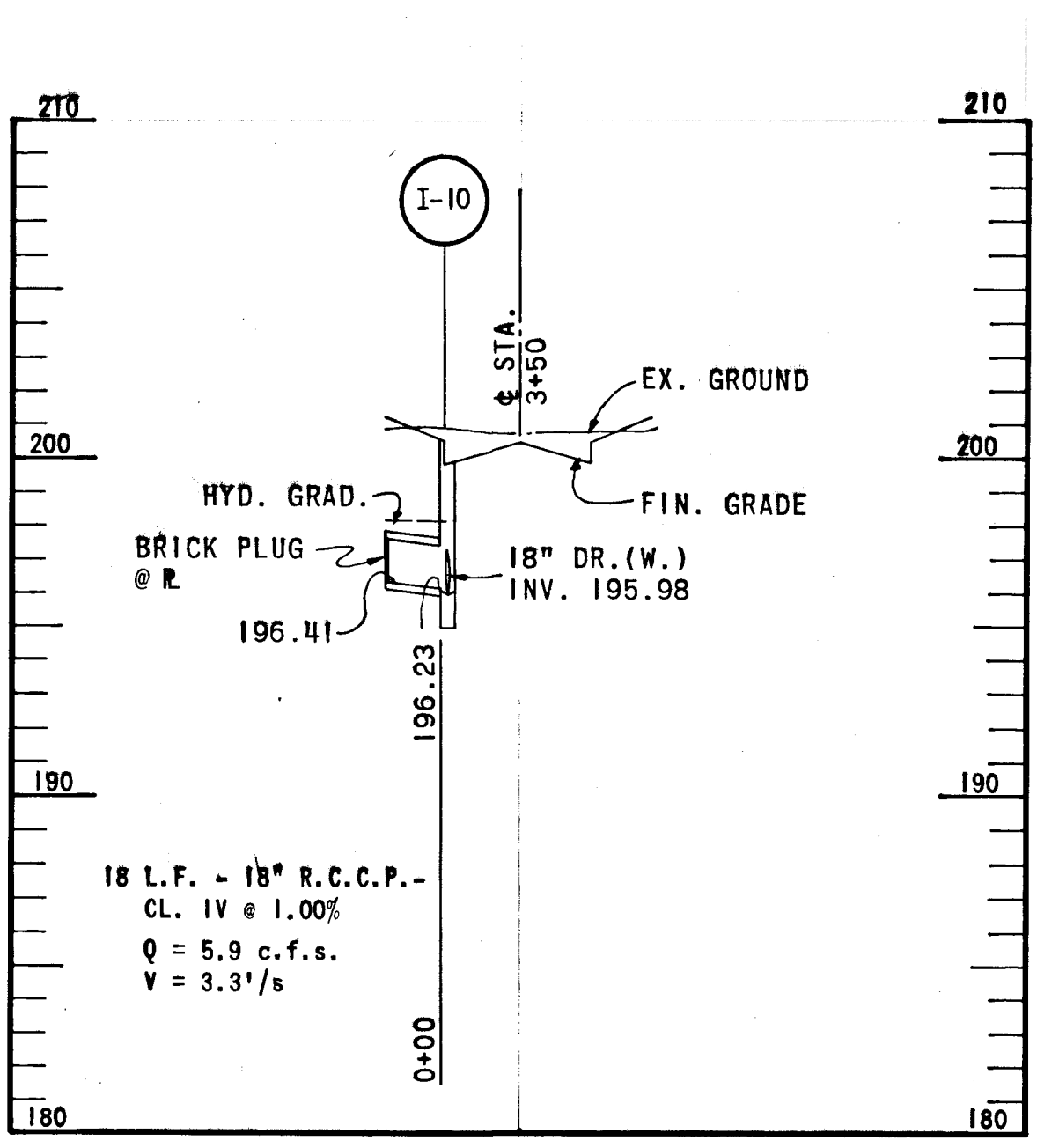
AS BUILT 2/17/81 T.R.C.



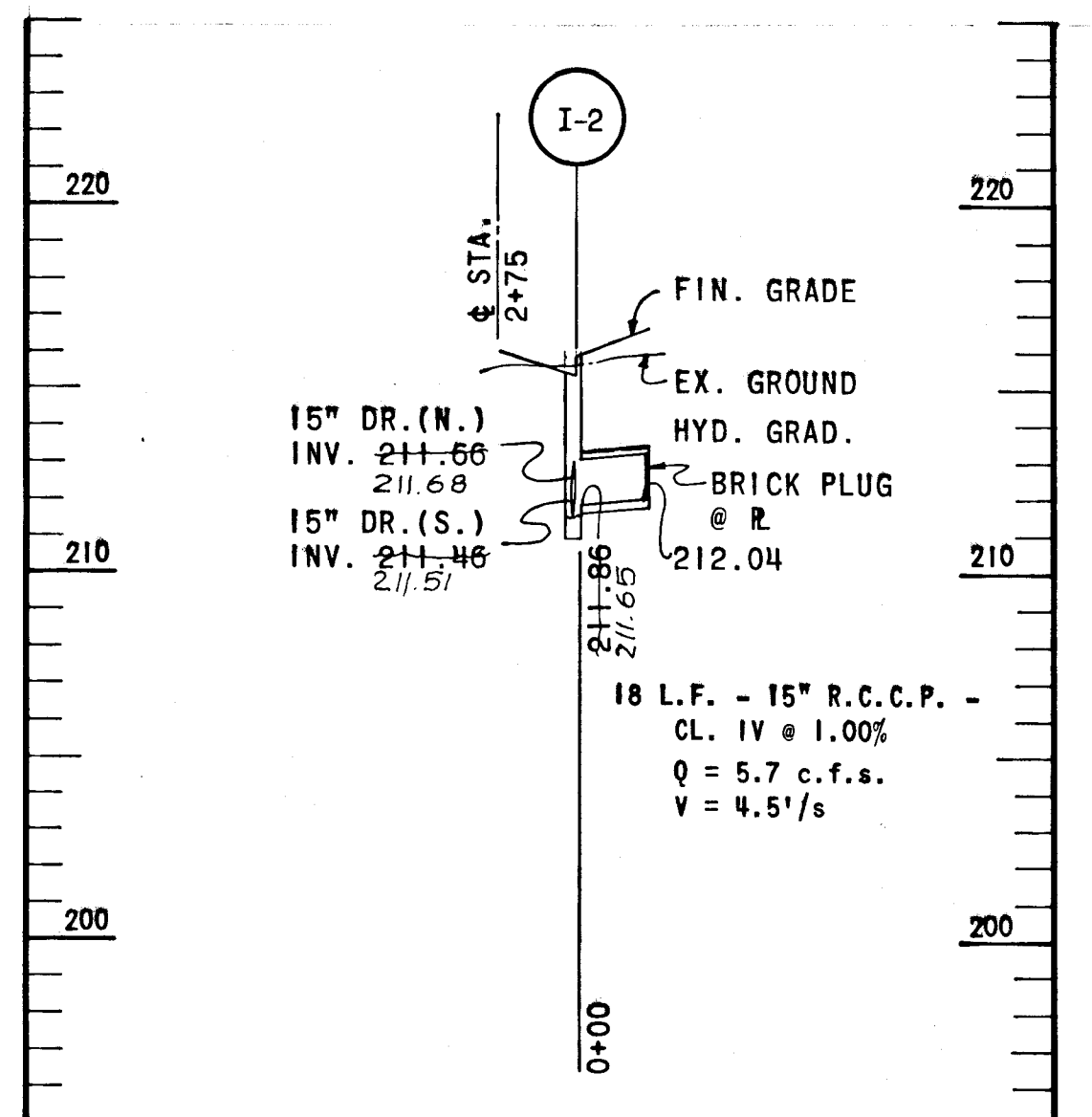
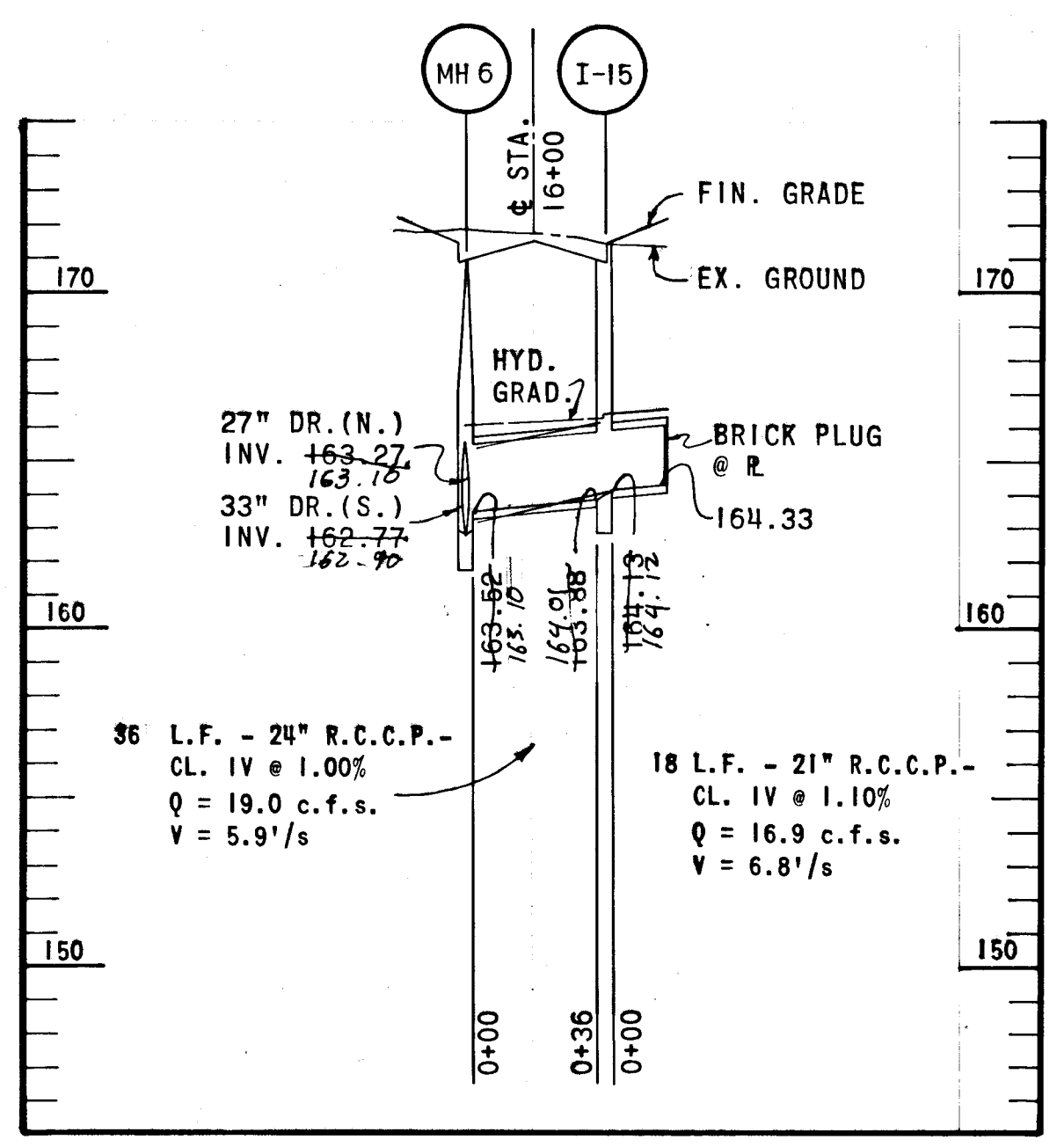
FOR PLAN SEE SHEET 5



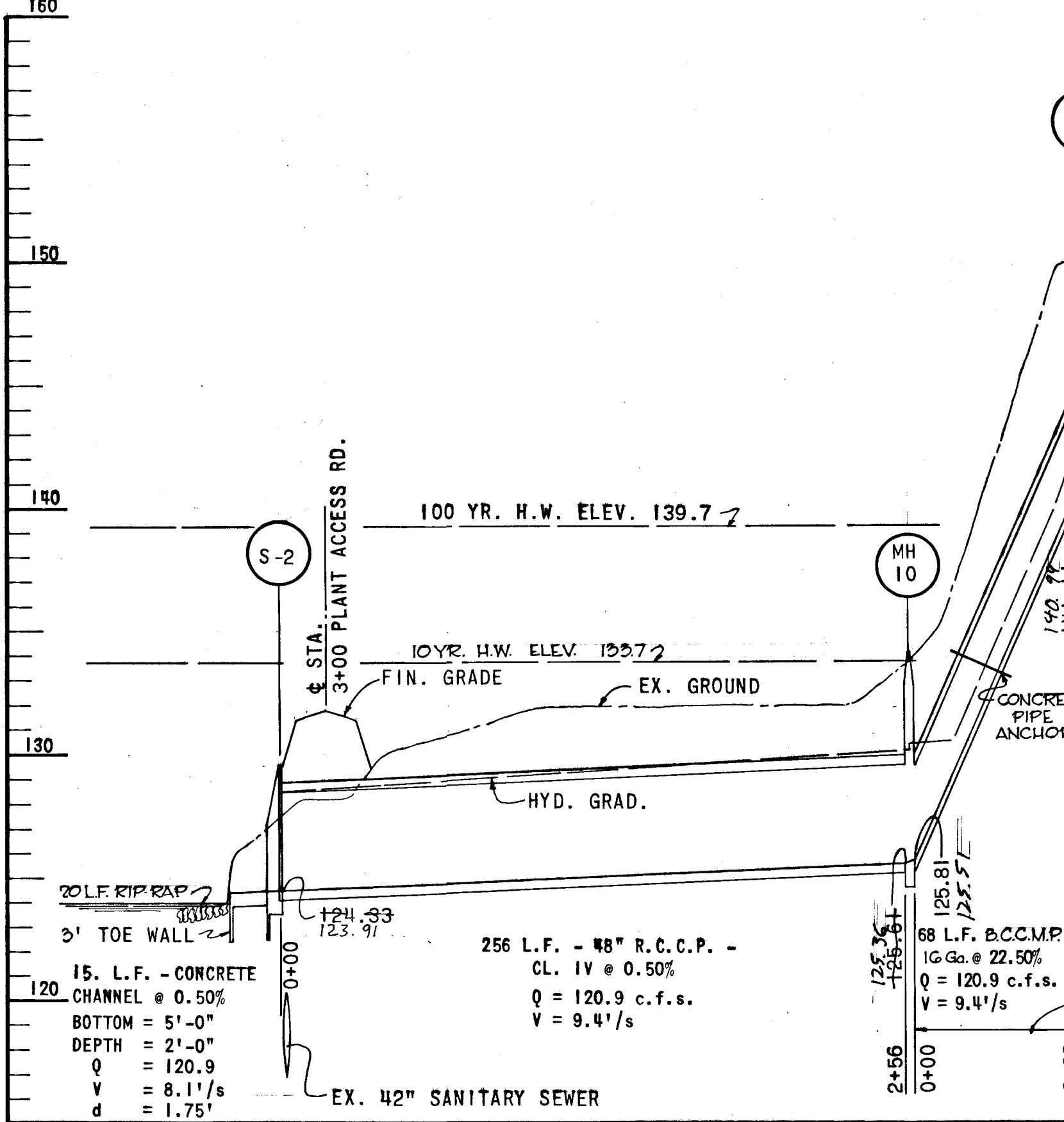
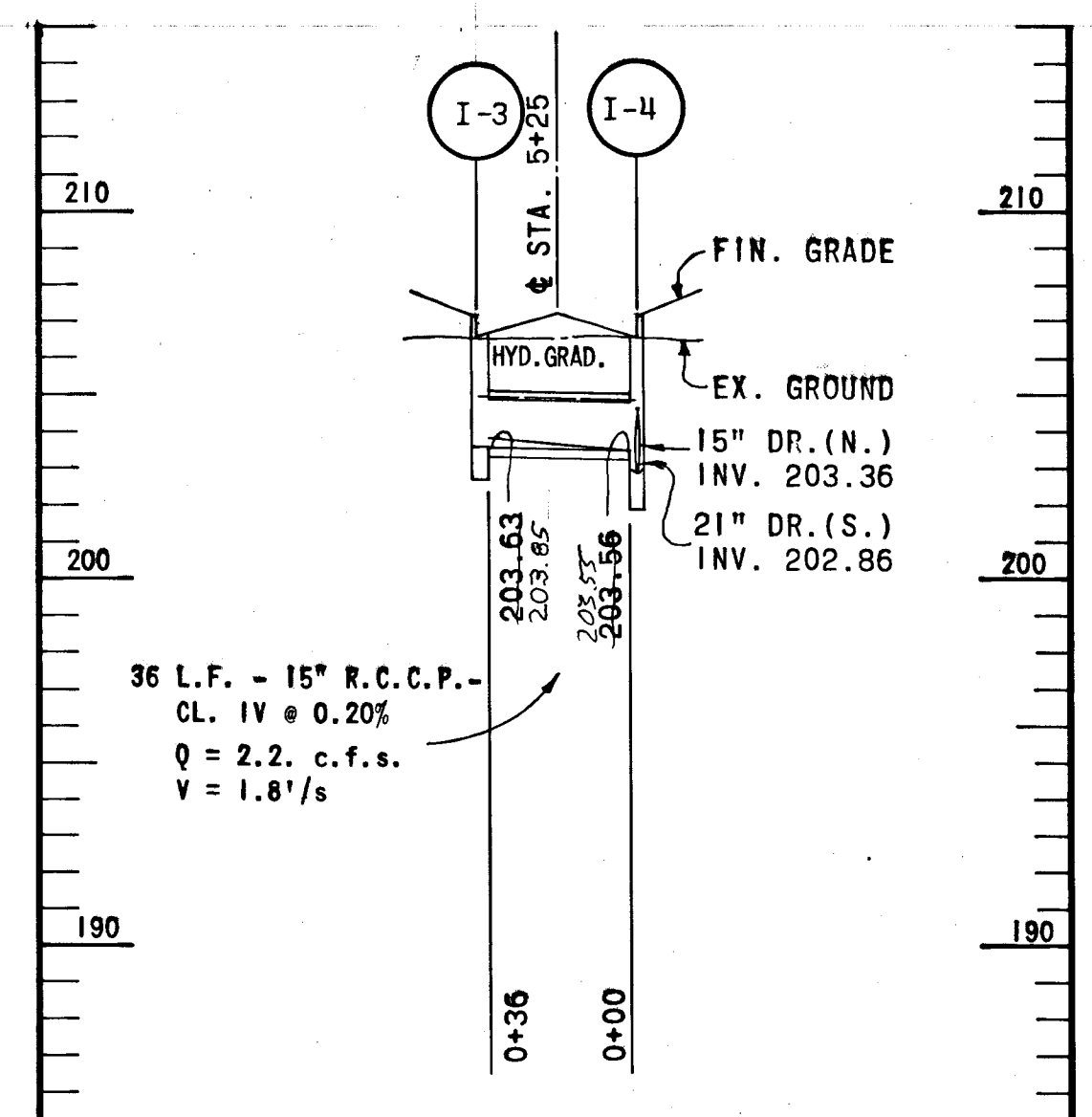
FOR PLAN SEE SHEET G



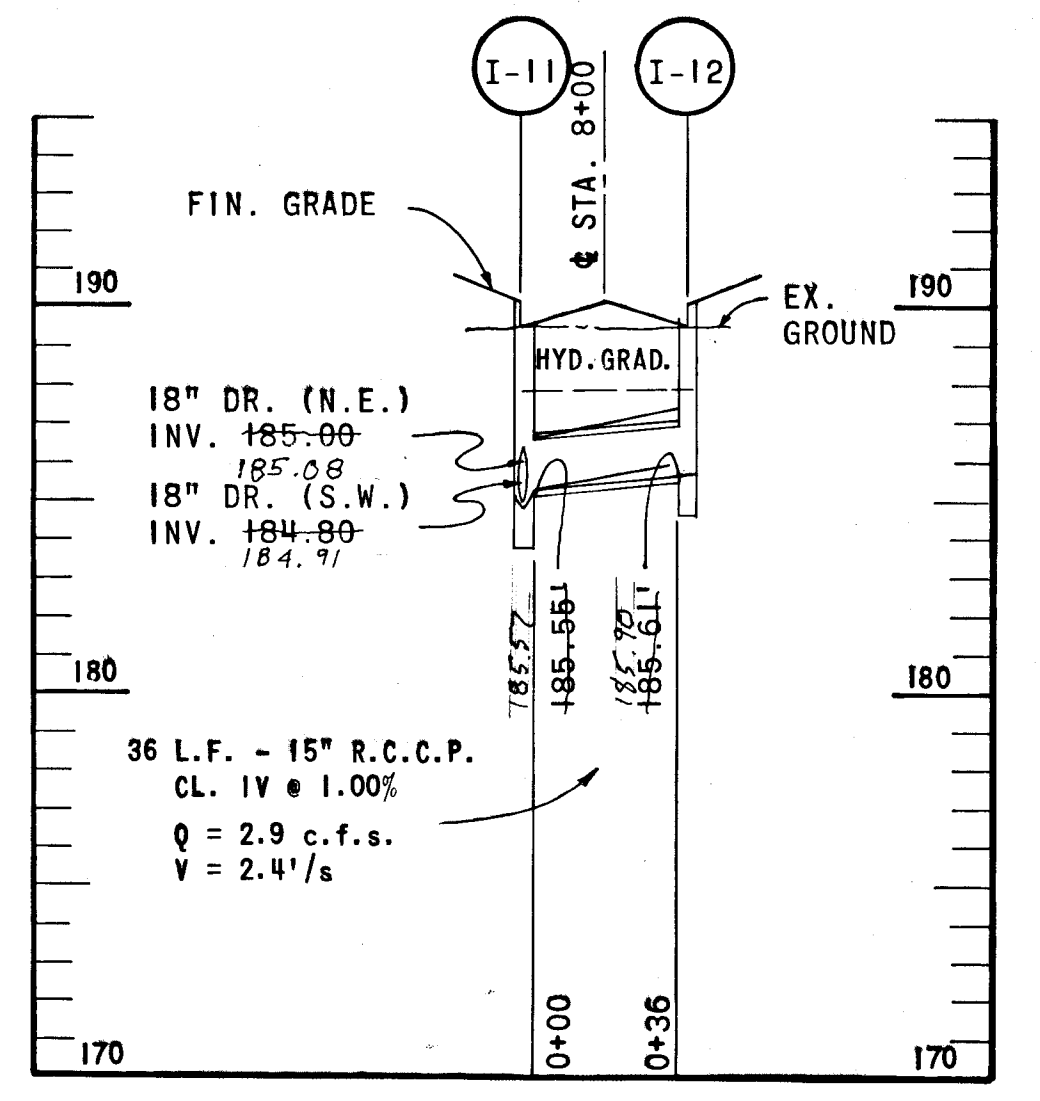
FOR PLAN SEE SHEET 7



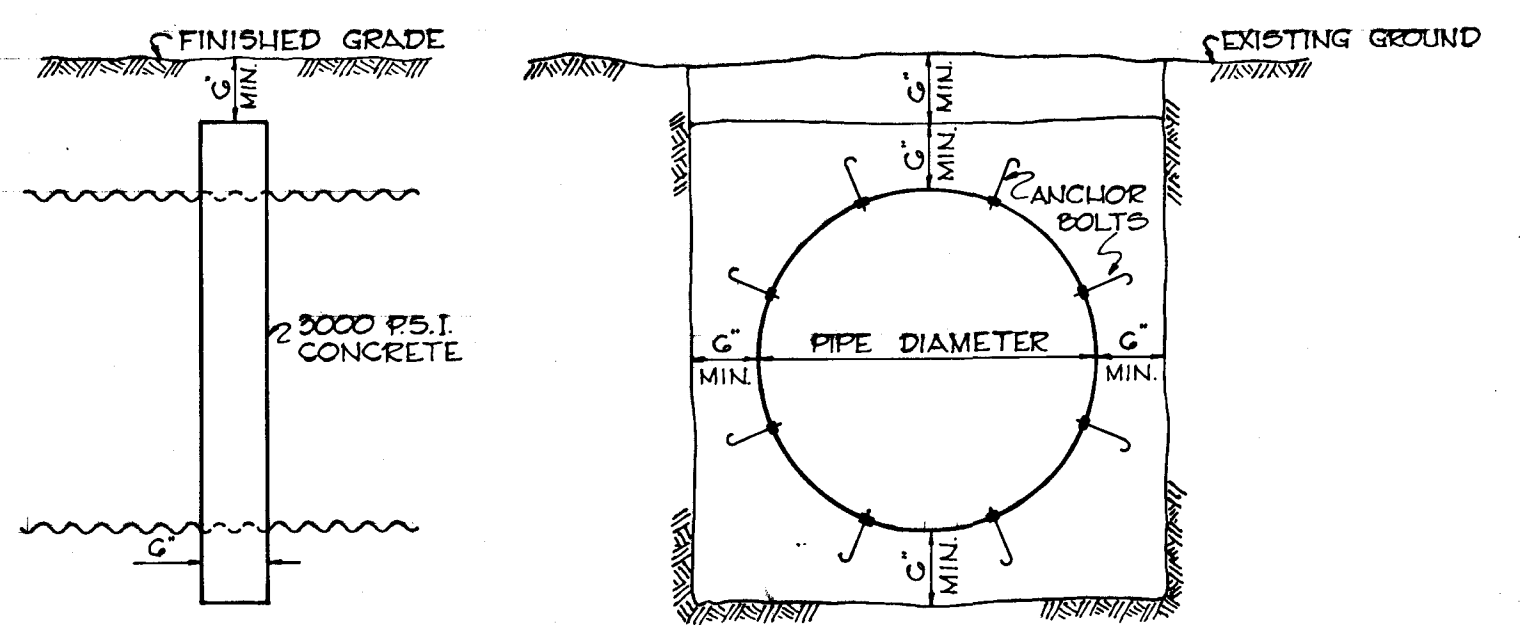
FOR PLAN SEE SHEET 4



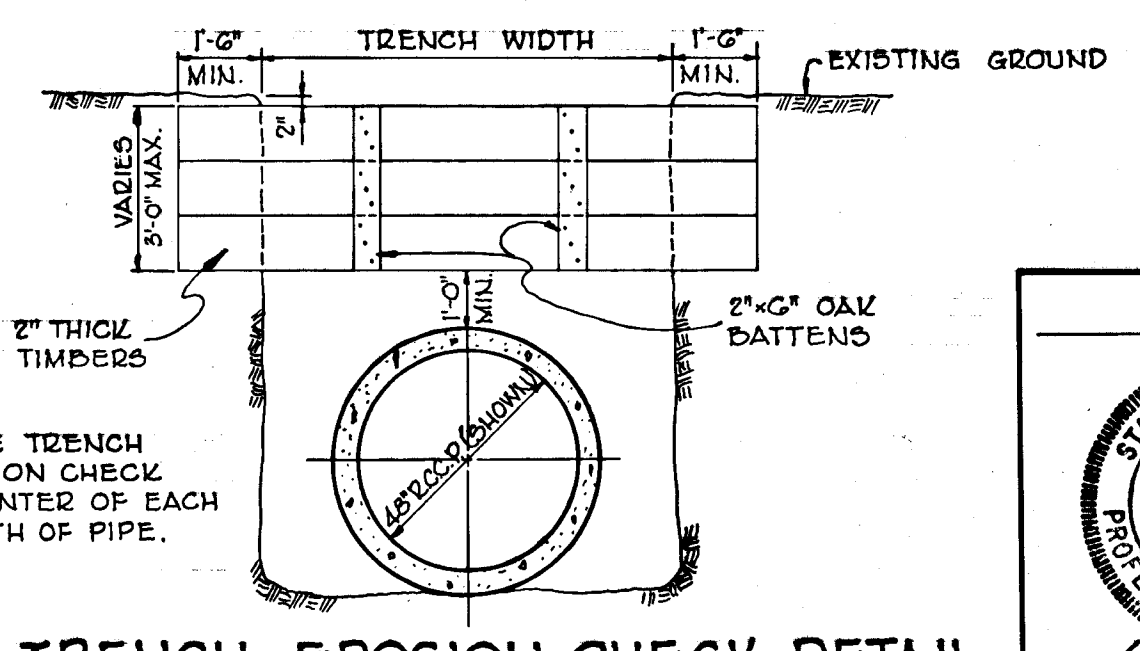
FOR PLAN SEE SHEET 6 & D



FOR PLAN SEE SHEET G

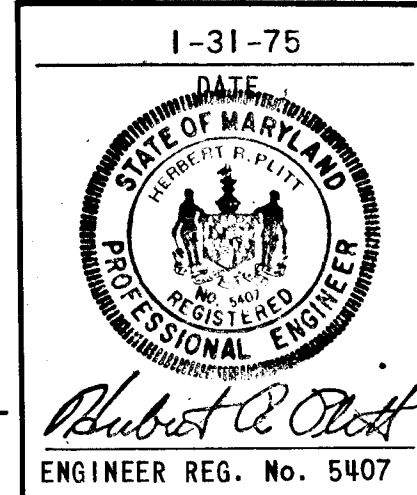


PIPE ANCHOR DETAIL  
NO SCALE



TRENCH EROSION CHECK DETAIL  
NO SCALE

NOTE:  
PLACE TRENCH  
EROSION CHECK  
AT CENTER OF EACH  
LENGTH OF PIPE.



APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/20/75

DEPARTMENT OF PUBLIC WORKS  
S. M. McCreed 6/10/75  
CHIEF, BUREAU OF HIGHWAYS DATE  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING DATE  
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS PLANNERS  
TOWSON, MARYLAND 21204

Rev. Date	Rev. No.	Revision Description

**CORRIDOR INDUSTRIAL PARK**  
6<sup>th</sup> ELECTION DISTRICT HOWARD COUNTY  
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
COLUMBIA, MARYLAND

PROJECT AREA  
CORRIDOR INDUSTRIAL PARK - SECTION I

PROJECT TITLE  
STORM DRAIN PROFILES

Des. By	F.T.	Scale	1" = 5' VERT. 1" = 50' HOR.	Dwg. No.	12
Drn. By	F.T.	Date	1-31-75	C.C.F. No.	
Chk. By	A.W.R.	Approved			

AS BUILT 2/19/81 J.R.C.

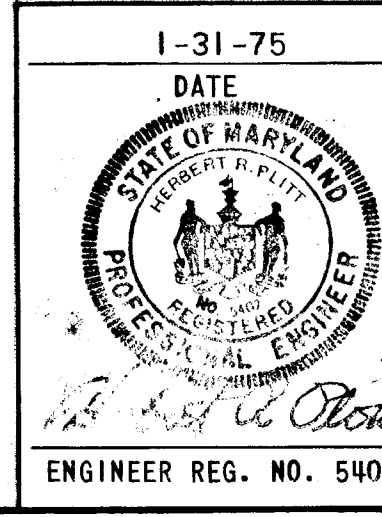
F-75-57



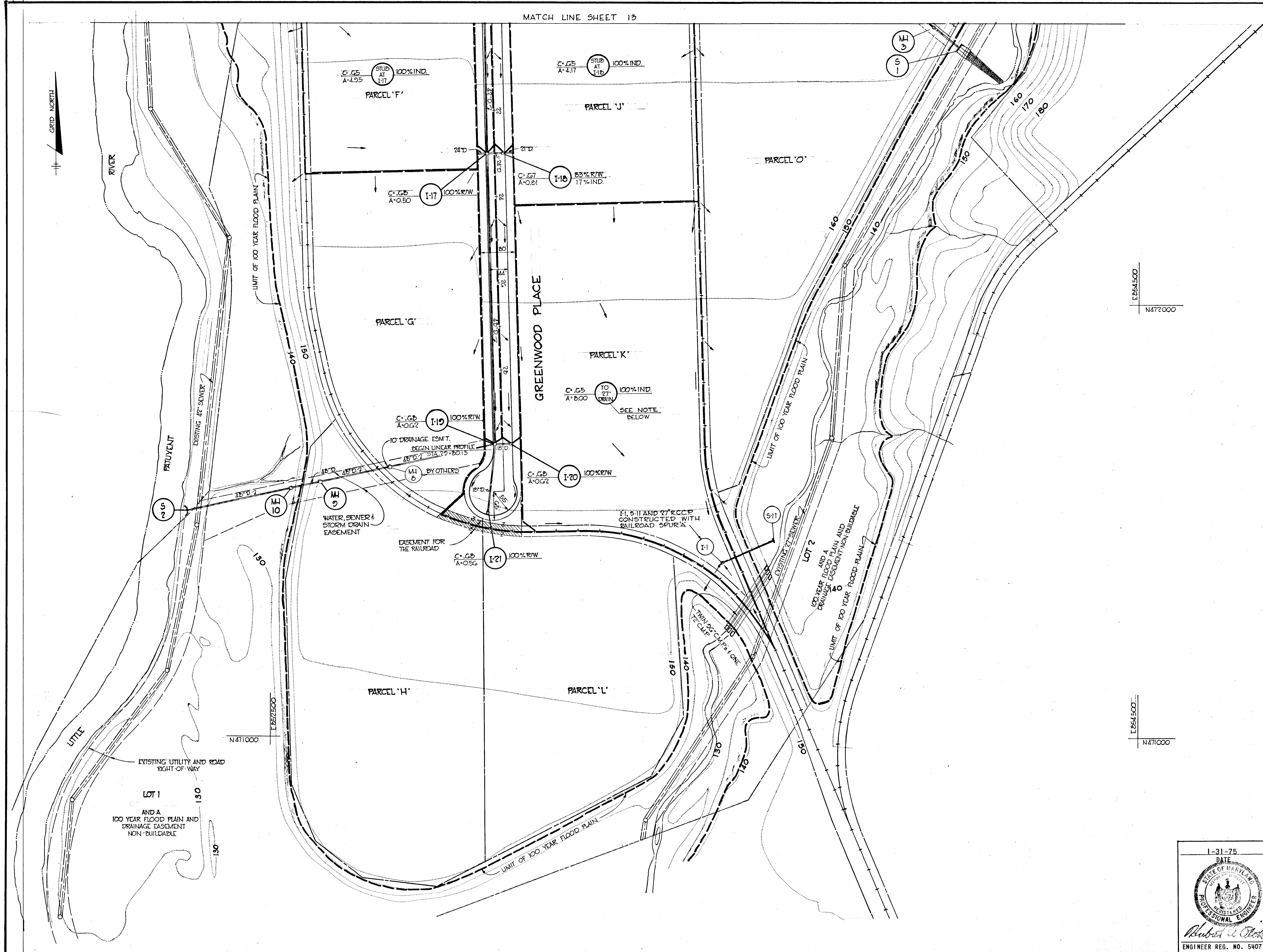


APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/20/75  
*[Signature]*

DEPARTMENT OF PUBLIC WORKS		
<i>[Signature]</i>	6/10/75	DATE
OFFICE OF PLANNING AND ZONING		
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
Rev. Date	Rev. No.	Revision Description
CORRIDOR INDUSTRIAL PARK 6 <sup>TH</sup> ELECTION DISTRICT HOWARD COUNTY OWNER AND DEVELOPER COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION COLUMBIA, MARYLAND		
PROJECT AREA CORRIDOR INDUSTRIAL PARK - SECTION I		
PROJECT TITLE DRAINAGE AREA MAP		
Des. By	F.T.	Scale 1" = 100'
Drn. By	A.W.R.	Date 1-31-75
Chk. By	F.T.	Approved
ENGINEER REG. NO. 5407		



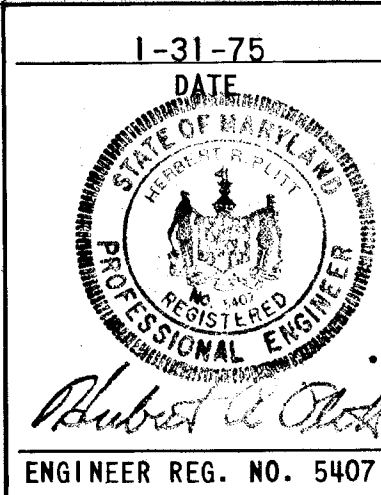
MATCH LINE SHEET 14



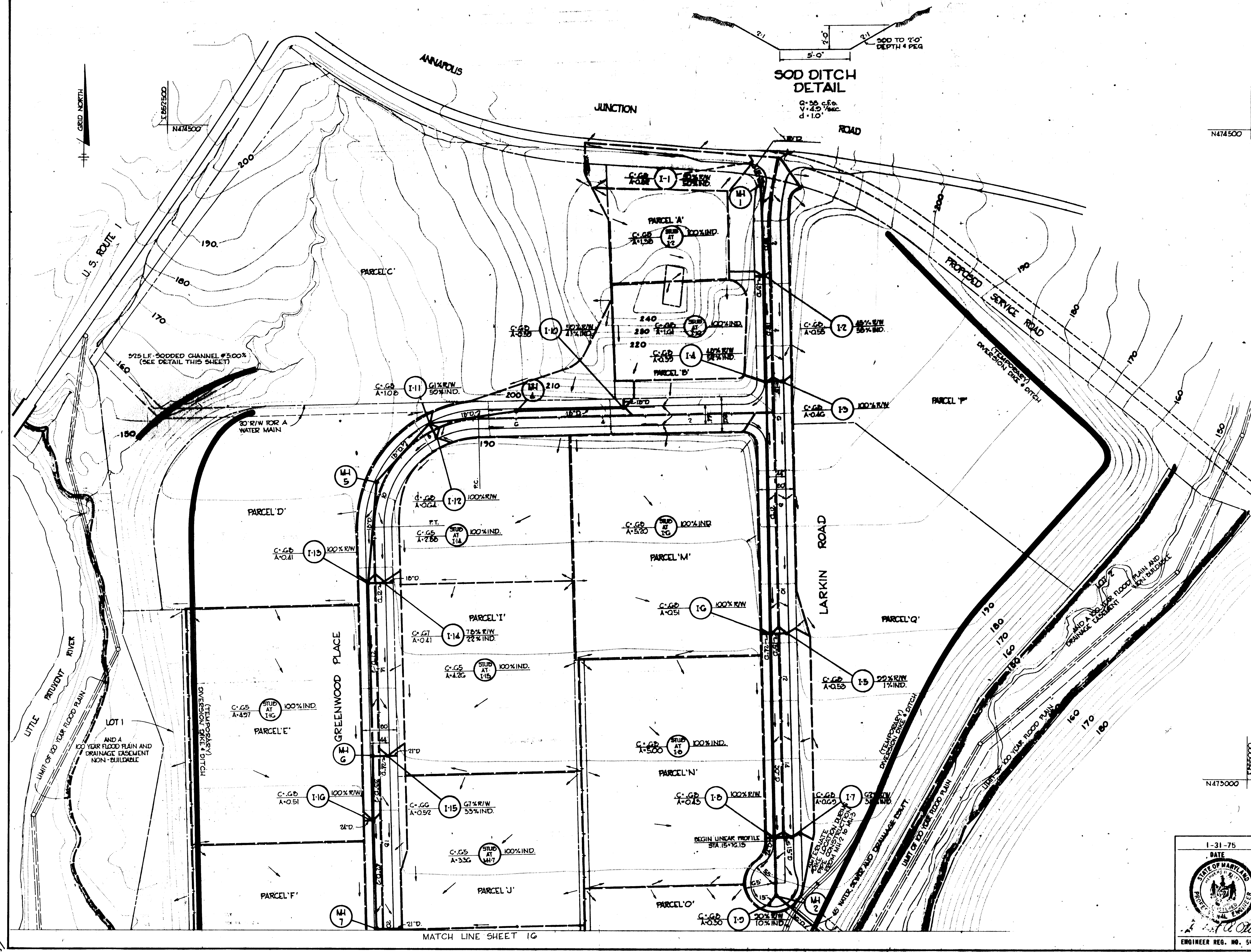
APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 6/10/75  
*[Signature]*

DEPARTMENT OF PUBLIC WORKS  
*B. G. McLeod* 6/10/75  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE  
**CENTURY ENGINEERING, INC.**  
 CONSULTING ENGINEERS PLANNERS  
 TOWSON, MARYLAND 21204

Rev. Date	Rev. No.	Revision Description
<b>CORRIDOR INDUSTRIAL PARK</b> 6 <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY OWNER AND DEVELOPER <b>COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION</b> COLUMBIA, MARYLAND PROJECT AREA CORRIDOR INDUSTRIAL PARK - SECTION I PROJECT TITLE DRAINAGE AREA MAP		
Des. By	F.T.	Scale 1" = 100'
Drn. By	A.W.R.	Date 1-31-75
Chk. By	F.T.	Approved
ENGINEER REG. NO. 5407		Dwg. No. 14 C.C.F. No.







ENGINEERS CERTIFICATE

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.

*Robert R. Dietz* 6/21/75  
 Signature of Engineer Reg. No. 5407 Date

DEVELOPER CERTIFICATE

I hereby certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as deemed necessary.

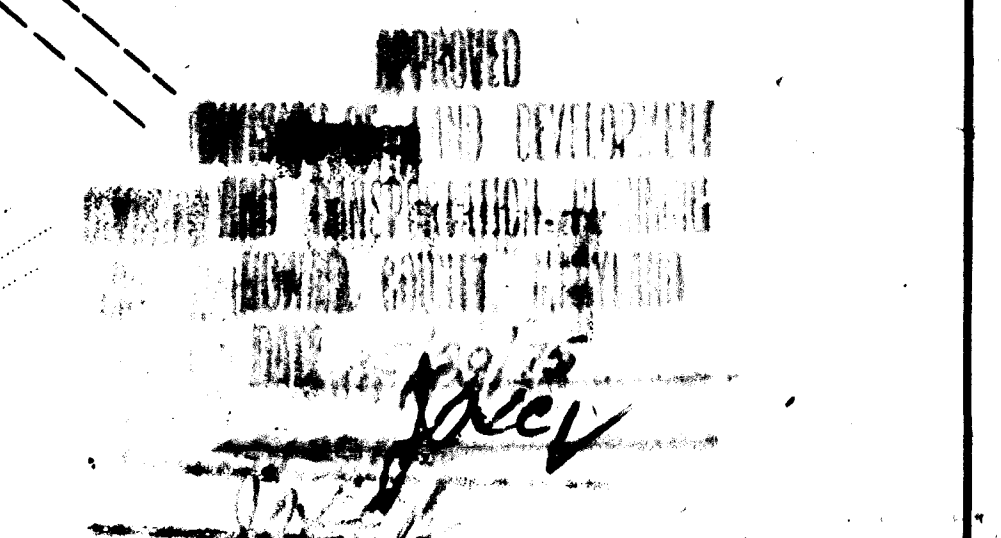
Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

*John F. Lyman* 5-24-75  
 Signature of Developer Date

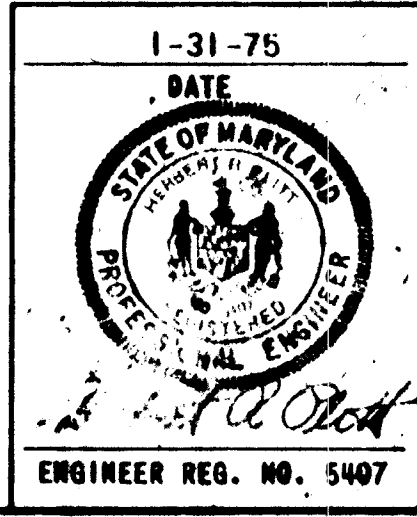
Reviewed for Howard S.C.D. and meets Technical Requirements.  
*James M. Nelson* 6-3-75  
 Signature Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

*Robert W. Ziehm* 6-3-75  
 Approved Date  
 Howard S.C.D.

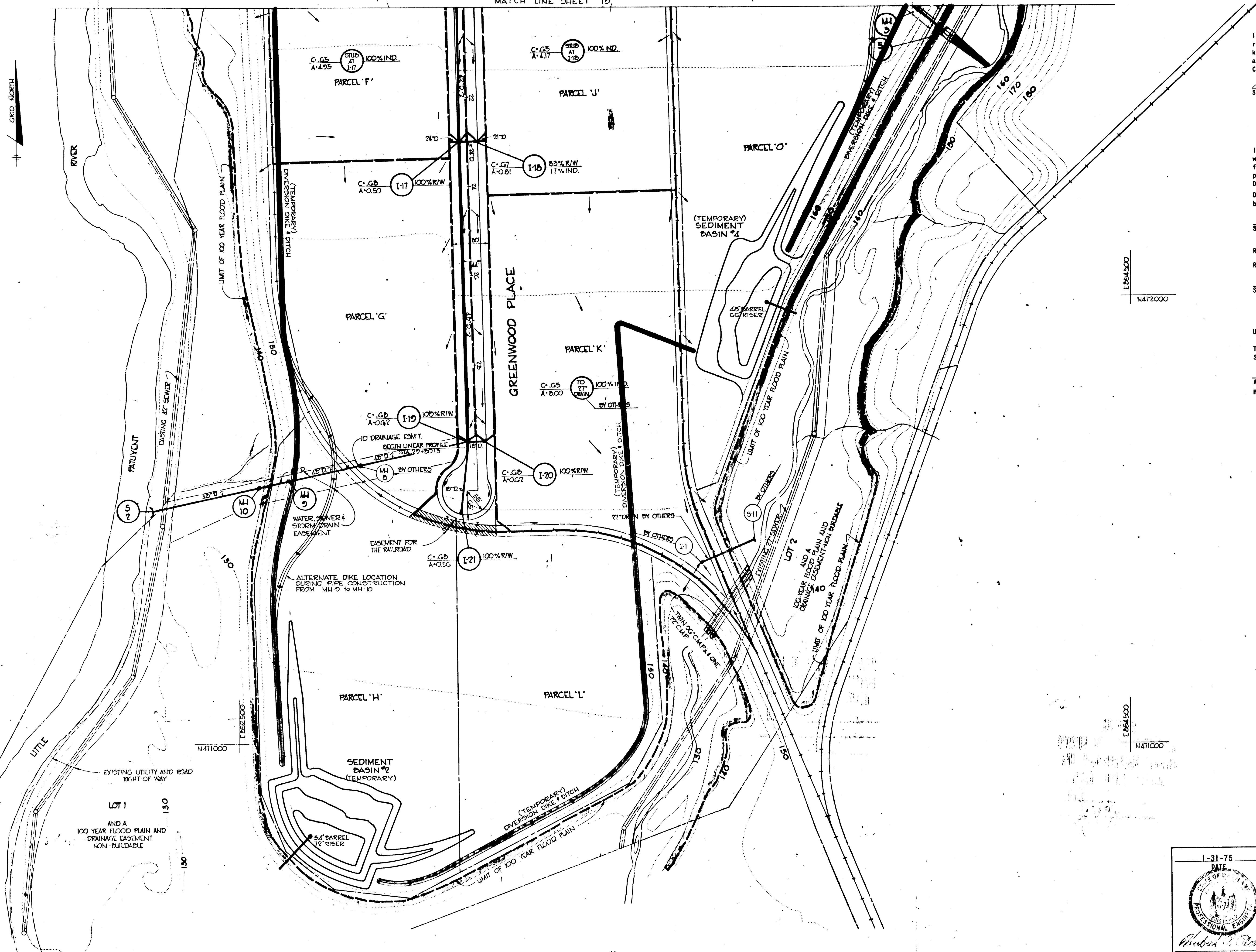


DEPARTMENT OF PUBLIC WORKS		
<i>D. M. McDonald</i> 6/10/75		DATE
CHIEF, BUREAU OF HIGHWAYS		
OFFICE OF PLANNING AND ZONING		
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
Rev. Date	Rev. No.	Revision Description
CORRIDOR INDUSTRIAL PARK 4 <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY OWNER AND DEVELOPER COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION COLUMBIA, A. 21046-2902		
PROJECT AREA CORRIDOR INDUSTRIAL PARK - SECTION I		
PROJECT TITLE SEDIMENT CONTROL PLAN		
Des. By F.T.	Scale 1" = 100'	Eng. No. 15
Rev. By A.W.R.	Date 1-31-75	C.E.F. No.
Chk. By F.T.	Approved	



MATCHLINE SHEET 10





**ENGINEERS CERTIFICATE**  
 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 of Engineer: *Richard R. Platt* Date: 3/21/75  
 Reg. No. 5407

**DEVELOPER CERTIFICATE**  
 I hereby certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.  
 Signature of Developer: *John F. ...* Date: 3-24-75

Reviewed for Howard S.C.D. and meets Technical Requirements.  
 Signature: *...* Date: 6-3-75

U.S. Soil Conservation Service  
 This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
 Approved: *...* Date: 6-3-75  
 Howard S.C.D.

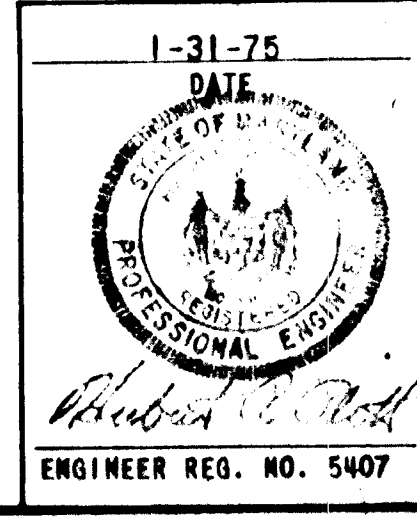
DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU OF HIGHWAYS DATE: 6/11/75  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE:

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

Rev. Date	Rev. No.	Revision Description

**CORRIDOR INDUSTRIAL PARK**  
 6<sup>th</sup> ELECTION DISTRICT HOWARD COUNTY  
 OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 COLUMBIA, MARYLAND  
 PROJECT AREA  
 CORRIDOR INDUSTRIAL PARK - SECTION I

PROJECT TITLE  
 SEDIMENT CONTROL PLAN  
 Des. By: F.T. Scale: 1" = 100' Reg. No. 1G  
 Dra. By: A.W.R. Date: 1-31-75 C.E.P. No.  
 Chk. By: F.T. Approved

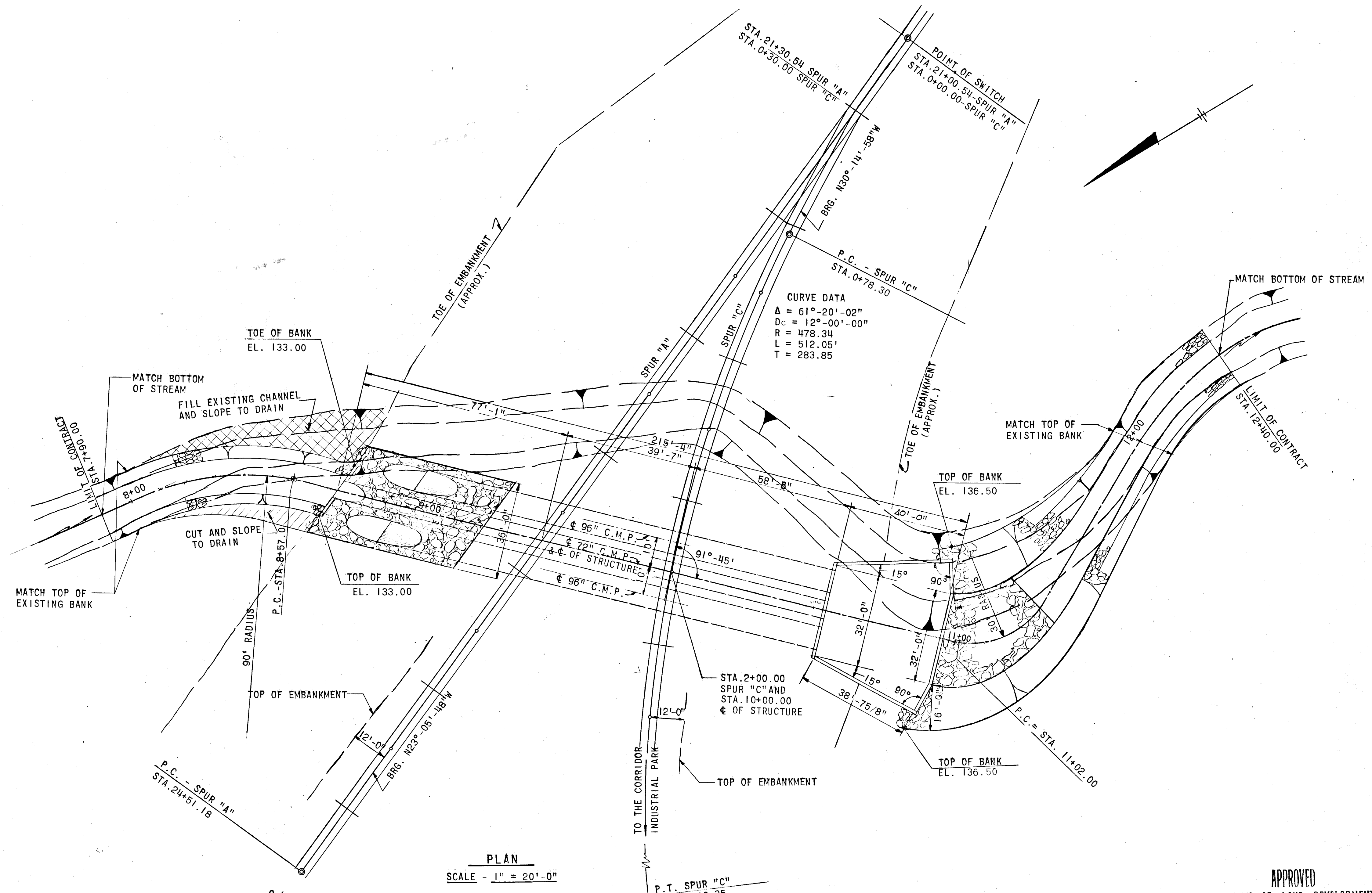






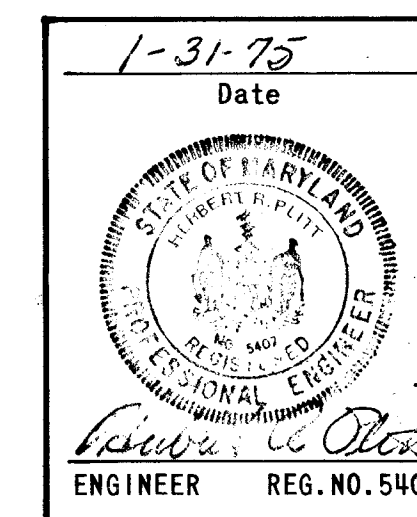
GENERAL NOTES

1. THESE ARE STANDARD NOTES PERTAINING TO THE PROJECT. WHERE SPECIFIC NOTES ARE SHOWN ON OTHER SHEETS, THOSE NOTES SHALL TAKE PRECEDENCE FOR THE WORK SHOWN THEREON.
2. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE CROSS-CHECKED AND VERIFIED IN THE FIELD WITH THE EXISTING CONDITIONS PRIOR TO PROCEEDING WITH SHOP DRAWINGS AND CONSTRUCTION.
3. ALL EXCAVATION SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACING OF ANY GRAVEL, CRUSHED STONE, OR CONCRETE, ETC.
4. REINFORCED CONCRETE HAS BEEN DESIGNED AND SHALL BE DETAILED AND CONSTRUCTED IN ACCORDANCE WITH "ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-71.
5. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS AND SHALL BE AIR ENTRAINED.
6. ALL REINFORCING BARS SHALL CONFORM TO ASTM DESIGNATION A615 GRADE 40.
7. ALL REINFORCING BAR LAPS, DOWELS, PROJECTIONS AND EMBEDMENT SHALL BE 80 BAR DIAMETERS MINIMUM, UNLESS OTHERWISE NOTED.
8. CONCRETE COVER FOR REINFORCING, UNLESS OTHERWISE SHOWN, SHALL BE AS FOLLOWS:  
CAST AGAINST EARTH OR EARTH FILL AND BETWEEN 2 LAYERS OF REINFORCING - 3 INCHES.  
FORMED AND EXPOSED TO WEATHER OR IN CONTACT WITH WATER - 2 INCHES.
9. CONSTRUCTION AND CONTROL JOINTS SHALL BE AS DETAILED ON THE DRAWINGS. NO ADDITIONAL JOINTS SHALL BE USED, NOR ANY OMITTED EXCEPT BY WRITTEN PERMISSION OF THE ENGINEER.
10. PRIOR TO INITIATION OF ANY WORK, SHOP DRAWINGS FOR ALL CONCRETE REINFORCING STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. SHOP DRAWINGS SHALL SHOW IN DETAIL, AT LARGE SCALE, THE METHOD OF CONSTRUCTION, TYPE AND SIZE OF STEEL, ERECTION DATA AND PROPOSED METHODS OF SECURING AND ANCHORING IN PLACE.
11. DESIGN STRESSES  
CONCRETE .....FC = 3,000 PSI  
REINFORCING STEEL .....FY = 40,000 PSI
12. ALL PIPES SHALL BE CORRUGATED METAL PIPES (C.M.P.) AND SHALL BE 8 GAGE WITH 3"x1" CORRUGATION. 72" C.M.P. SHALL BE 40% PAVED INVERT.
13. ONLY PROPER AND SUITABLE TOOLS AND APPLIANCES FOR THE SAFE HANDLING AND LAYING OF PIPES AND FITTINGS SHALL BE USED. PIPE FITTINGS SHALL BE CAREFULLY HANDLED AND THE DEFLECTION SHALL NOT EXCEED 5% OF THE PIPE DIAMETER. THE ENDS OF THE PIPE SHALL ABUT AGAINST EACH OTHER IN SUCH MANNER THAT THERE SHALL BE NO SHOULDER OR UNEVENNESS OF ANY KIND ALONG THE INSIDE OF THE BOTTOM HALF OF THE PIPELINE.  
SPECIAL CARE SHALL BE TAKEN TO INSURE THAT THE PIPES ARE WELL BEDDED ON A FOUNDATION COMPACTED AS SPECIFIED UNDER NOTE 16, AND NO PIPE SHALL BE BROUGHT INTO POSITION UNTIL THE PRECEDING LENGTH HAS BEEN SECURED IN PLACE AGAINST LATERAL MOVEMENT BY PLACING OF BACKFILL UP TO THE MID HEIGHT OF THE PIPE. ANY DEFECTS DUE TO SETTLEMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE. BELL HOLES SHALL BE DUG SUFFICIENTLY LARGE TO INSURE THE MAKING OF PROPER JOINTS. WATER SHALL NOT BE ALLOWED TO RISE IN THE EXCAVATION UNTIL THE JOINT MATERIAL HAS RECEIVED ITS SET. THE GREATEST CARE SHALL BE USED TO SECURE WATER TIGHTNESS AND TO PREVENT DAMAGE TO OR DISTURBING OF THE JOINTS DURING THE BACKFILLING PROCESS OR AT ANY OTHER TIME. SPECIAL PRECAUTIONS SHALL BE EXERCISED TO PREVENT ANY PIPE FROM RESTING ON ROCK. WHENEVER A PIPE REQUIRES CUTTING TO FIT INTO THE LINE OR TO BRING IT TO THE REQUIRED LOCATION, THE WORK SHALL BE DONE IN A SATISFACTORY MANNER SO AS TO LEAVE A SMOOTH END.
14. ALL PIPE JOINTS SHALL BE LEAK-PROOF AND WATER TIGHT AND SHALL CONFORM TO ARMO HANDBOOK OF DRAINAGE AND CONSTRUCTION PRODUCTS.
15. ALL EXPOSED EDGES SHALL BE CHAMFERED 1" x 1" UNLESS OTHERWISE SPECIFIED.
16. STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES SHALL BE APPLIED FOR THE FOLLOWING, EXCEPT AS NOTED.  
DAMP PROOFING SHALL BE APPLIED TO THOSE SURFACES OF WINGWALLS, RETAINING WALL AND END SILLS THAT ARE IN CONTACT WITH THE EARTH AND TO THE FULL FACE OF ALL CONTRACTION JOINTS.  
POROUS BACKFILL BLANKET SHALL BE PLACED AGAINST THE REAR FACES OF THE RETAINING WALL AND WING WALLS AS INDICATED IN THE DETAILS. THE MATERIAL SHALL BE NO. 6 AGGREGATE OR EQUIVALENT.  
ALL FILL MATERIALS SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 1557, AND SHALL CONFORM TO THE STATE HIGHWAY ADMINISTRATION SPECIFICATIONS.
17. EXTENT OF UNDER CUTTING OF UNSUITABLE FOUNDATION MATERIAL SHALL BE DETERMINED BY THE ENGINEER, IN THE FIELD, BUT SHALL IN NO CASE BE LESS THAN THAT SHOWN ON THE PLANS.
18. PROVIDE 9"-#2 SRC STONE FOR STONE BEDDING UNDER PIPES AS DIRECTED BY THE ENGINEER.

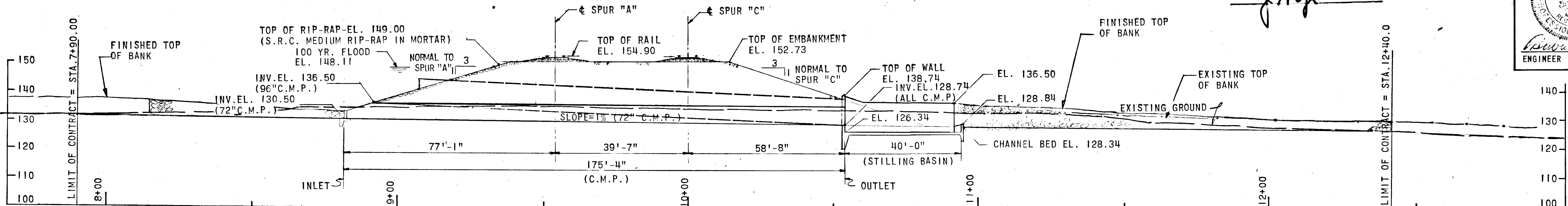


PLAN  
SCALE - 1" = 20'-0"

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/20/75  
J. H. P.



DEPARTMENT OF PUBLIC WORKS  
Date 1-31-75  
S. M. Ireland 6/10/75  
CHIEF, BUREAU OF HIGHWAYS  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS - PLANNERS  
TOWSON, MARYLAND 21204



SECTION ALONG  $\phi$  OF STRUCTURE  
SCALE - 1" = 20'-0"

HYDRAULIC DATA  
DRAINAGE AREA = 3.203 SQ. MILES = 2050 ACRES.

	FLOOD FREQUENCY	OUTLET DISCHARGE	INLET ELEVATION	OUTLET VELOCITY
FUTURE DEVELOPMENT	100 YEAR	1797 cfs	148.11	22.0 f.p.s.
FUTURE DEVELOPMENT	10 YEAR	1293 cfs	143.68	20.0 f.p.s.
FUTURE DEVELOPMENT	2 YEAR	1053 cfs	140.05	19.0 f.p.s.

Rev. Date Rev. No. Revision Description

**CORRIDOR INDUSTRIAL PARK**  
6<sup>TH</sup> ELECTION DISTRICT HOWARD COUNTY  
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
COLUMBIA, MARYLAND

PROJECT AREA  
CORRIDOR INDUSTRIAL PARK - SECTION 1

PROJECT TITLE  
RAILROAD PIPE CULVERT

Des. By N.P.V. Scale 1" = 100' Dwg. No. 10  
Dra. By N.P.V. Date 1-31-75 C.C.F. NO.  
Chk. By N.P.V. Approved