

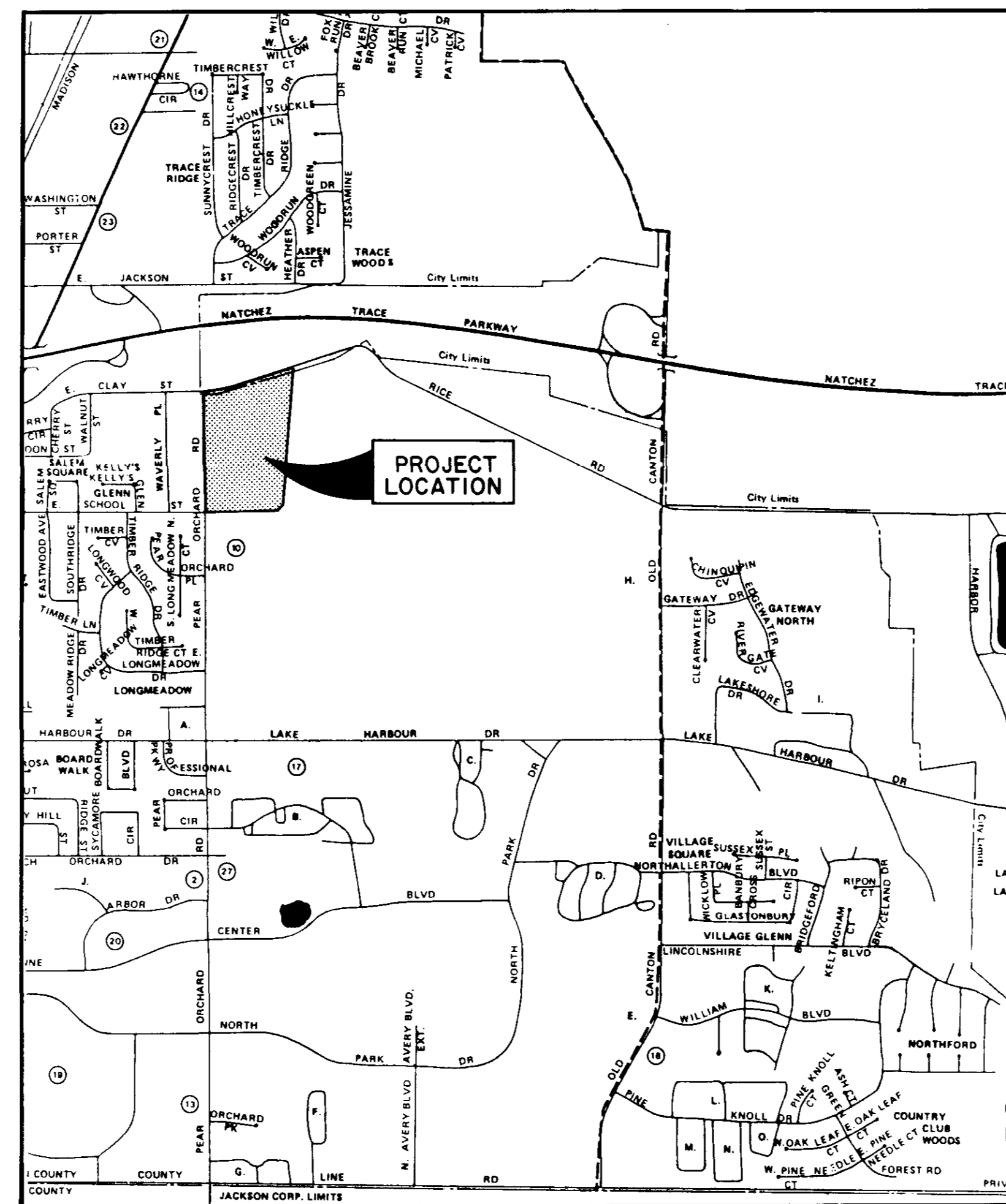
CONTRACT DRAWINGS FOR

SHADOWWOOD SUBDIVISION

STREETS, DRAINAGE, SANITARY SEWER & WATER SYSTEM

WATER DISTRIBUTION SYSTEM		
ITEM	QUANTITY	UNIT
Connection to Existing Water	1	Ea.
8" PVC Water Main, C-900, Class 150	3,700	L.F.
6" PVC Water Main, C-900, Class 150	1,990	L.F.
8" Gate Valve With Box	7	Ea.
6" Gate Valve With Box	6	Ea.
8"x8"x8" Cross	2	Ea.
8"x8"x8" Tee	1	Ea.
8"x8"x6" Tee	10	Ea.
6"x6"x6" Tee	3	Ea.
6" Fire Hydrant with Valve	9	Ea.
8" Plug	1	Ea.
6" Plug with 2" Blow-Off	5	Ea.
6" Plug	3	Ea.
Service Assembly	91	Ea.
3/4" Service Line	2,640	L.F.
Service Markers	91	Ea.

GRASS PLANTING		
ITEM	QUANTITY	UNIT
Seeding	55	Acre



VICINITY MAP

STREETS AND DRAINAGE

ITEM	QUANTITY	UNIT
Clearing and Grubbing	7	Acres
Excavation - Common	10,233	C.Y.
Street Undercut and Select Backfill	4,000	C.Y.
Embankment	1,770	C.Y.
Sub-Base Preparation	21,000	S.Y.
1 1/2" Asphalt Surface	17,050	S.Y.
4" Black Base Course	17,050	S.Y.
Concrete Curb and Gutter	11,630	L.F.
Curb Inlets	17	Ea.
15" RCP	842	L.F.
18" RCP	633	L.F.
24" RCP	362	L.F.
42" RCP	617	L.F.
6"x4' Box Culvert	372	L.F.
8"x4' Box Culvert	201	L.F.
42" Flared End Section	1	Ea.

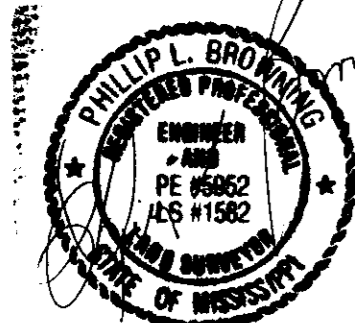
SANITARY SEWER

Connection to Existing MH with Force Main	1	Ea.
8" Gravity Sewer (0'-6')	2,764	L.F.
8" Gravity Sewer (6'-8')	1,847	L.F.
8" Gravity Sewer (8'-10')	320	L.F.
8" Gravity Sewer (10'-12')	45	L.F.
48" Manhole (0'-6')	17	Ea.
48" Manhole (6'-8')	11	Ea.
48" Manhole (8'-10')	1	Ea.
48" Manhole (10'-12')	2	Ea.
Drop Connection to Manhole	1	Ea.
Service Tee	169	Ea.
Service Line (6")	5,500	L.F.
Service Markers	91	Ea.
Pump Station	1	L.S.
4" Force Main	6,400	L.F.
Undercut and Select Backfill	300	C.Y.
Air Release Valve	3	L.S.

INDEX OF DRAWINGS

Cover Sheet	1
General Layout	2
Drainage Layout	3
Plan Profile Sheets	4 - 11
Water Details	12
Sewer Details	13
Typical Drainage Details	14
Pumping Station	15

1/19/03
Bry



FAIRVIEW DEVELOPMENT SERVICES, INC.

Managing Development Responsibly

860 East River Place, Suite 205 Jackson, Mississippi 39202-3442

(601) 353-3255 Facsimile: (601) 353-0704

April 4, 2001

Mr. Sam C. Vinson, P.E., Director
Department of Public Works
City of Ridgeland
Post Office Box 217
Ridgeland, Mississippi 39158

Re: Abandonment of Sewer Line Under Garage on Lot 31, Shadowood, Part 1

I am transmitting herewith an 'as-built' drawing of the sanitary sewer installed by Triangle Construction Company at the expense of Shadowood Developers as an in-lieu-of sanitary sewer for the main over which the garage on the above referenced lot was constructed. This new sewer is within the easement shown on the record plat of Shadowood, Part 1. The old sewer line has been filled with flow-able fill, and Sid Hawthorne is knowledgeable of this.

Reference is made to letters from Gary Cress and from me dated August 19, 1999. To assure the relocation of this sewer, Mr. Cress posted a check with the City's attorneys for \$23,000. This amount is being held in an escrow account at Pyle, Dreher, Mills & Dye, P.A.

On receipt of this letter and this drawing, please advise James Gabriel in order that he can return this \$23,000.00 to the developer.

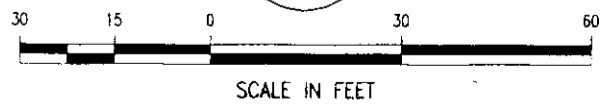
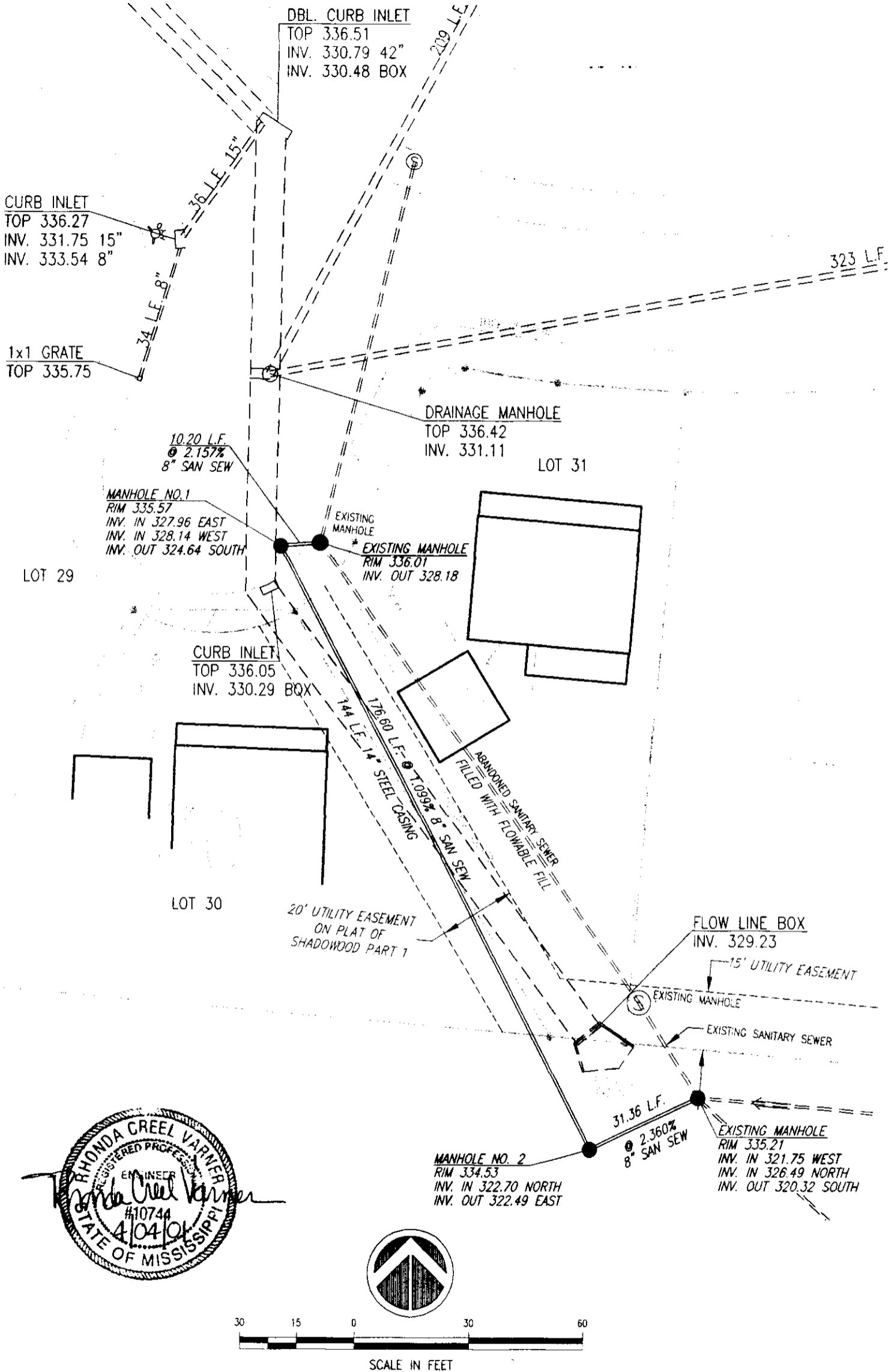
Please call me if you have any questions. Thank you.



Horace B. Lester, Jr., P.E.

cc: James H. Gabriel
Gary B. Cress
Carroll D. King

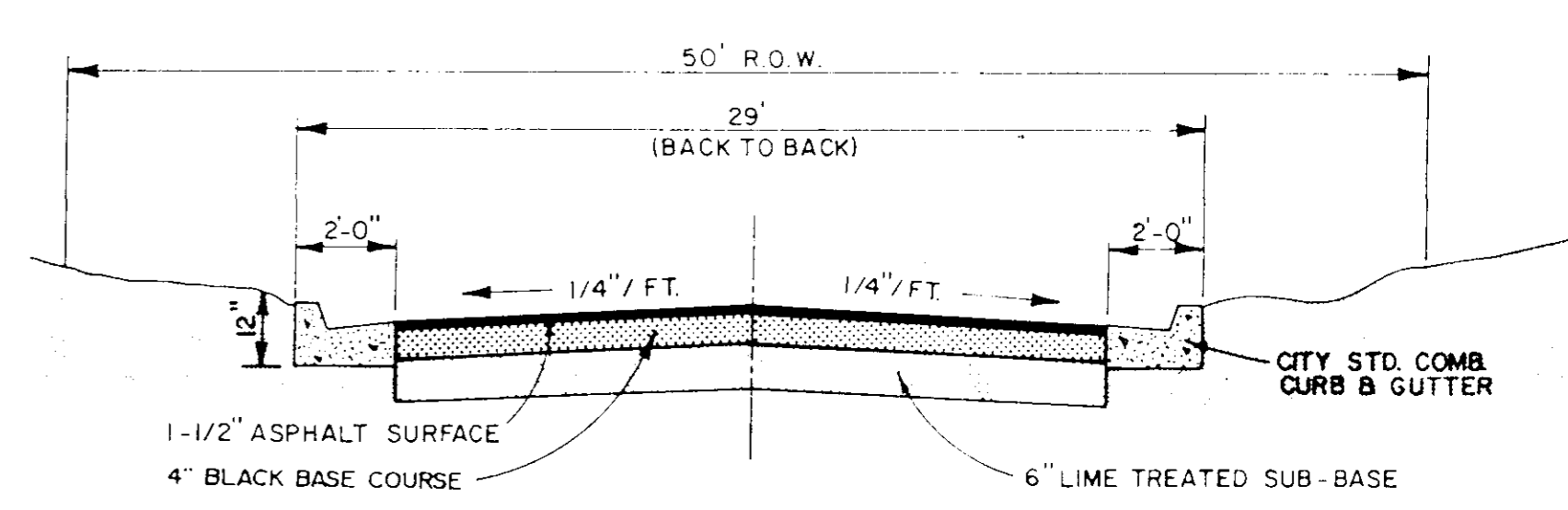
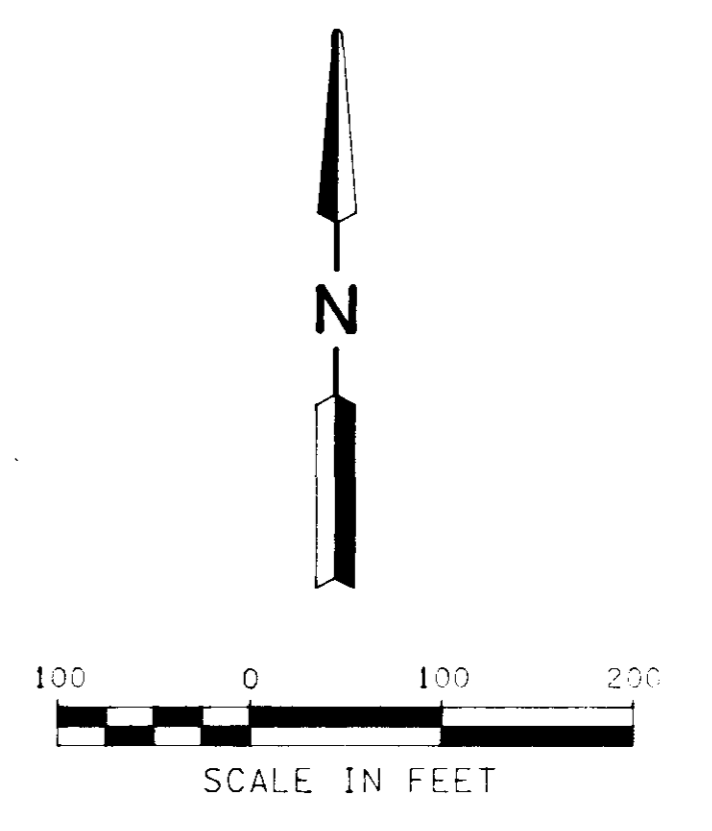
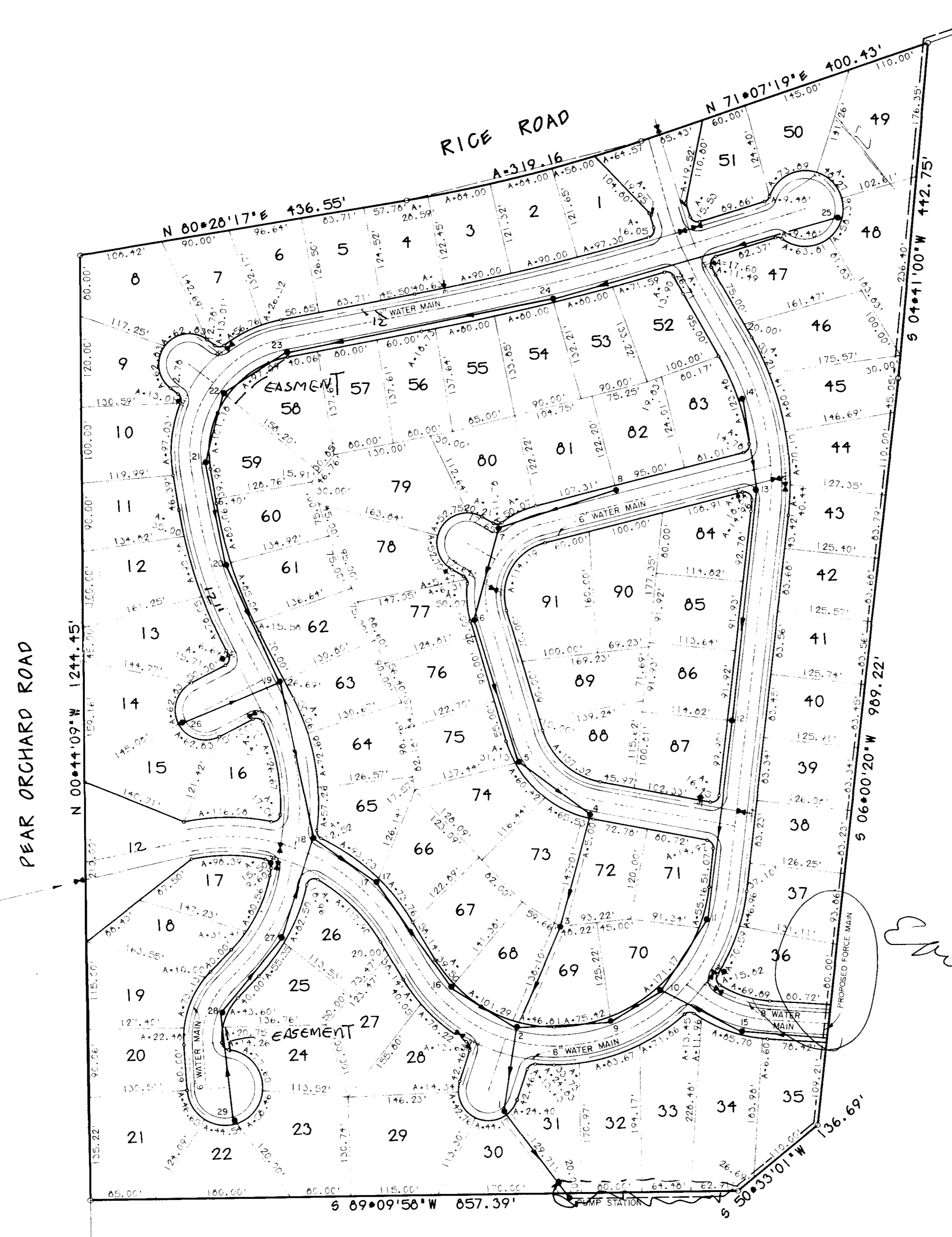
Shadowood I
CONST. PLANS



AS-BUILT SANITARY SEWER RELOCATION
BETWEEN LOTS 30 AND 31
SHADOWOOD SUBDIVISION
PART 1



DSGN:	HBL	DATE:	11/00
DRWN:	RDB	DATE:	02/01
CHKD:	HBL	DATE:	02/01
SCALE:	1"=30'		
DRAWING NO.	1 of 1		



TYPICAL STREET SECTION

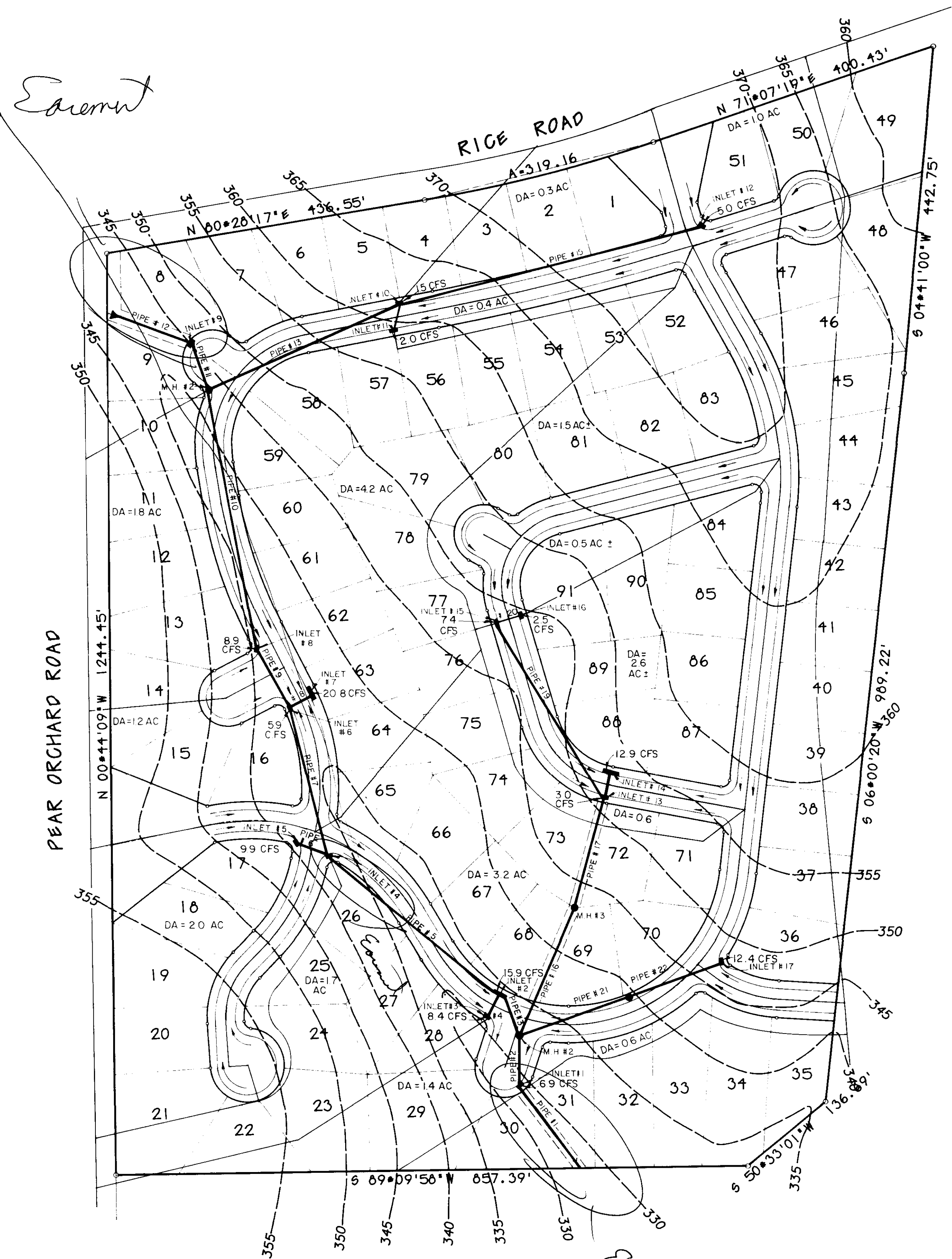
NOTE: 10' UTILITY EASEMENT ALONG THE BACK SIDE OF ALL STREETS.

E. Brown

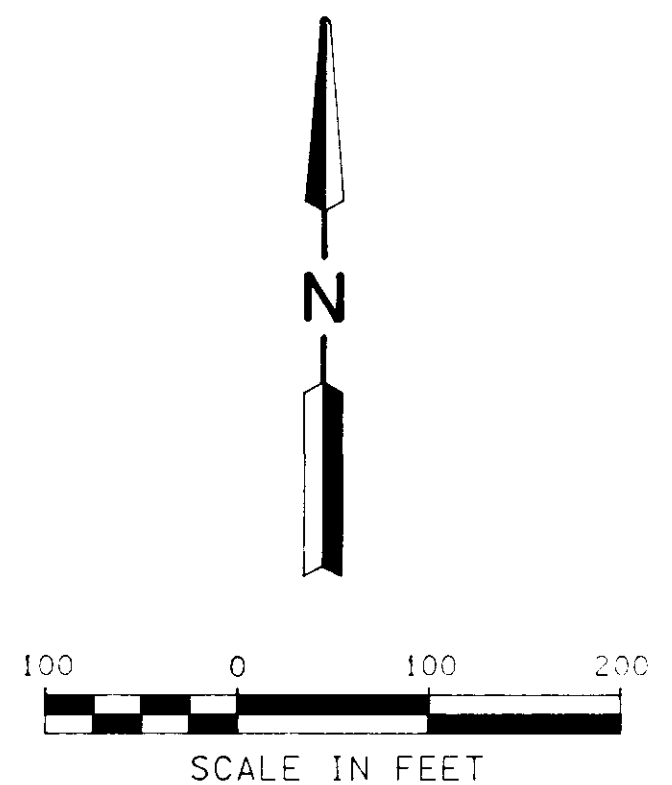
Browning, Inc. \\f:\landme-cl\dgn\sh3-30.dgn 11/14/03 11:52:14 88410-0-00-00-00-00

Prepared By
BROWNING INC.
 CONSULTING ENGINEERS-SURVEYORS
 P.O. Box 12711
 1028 Ridgewood Place
 Jackson, Miss 39211

SHADOWOOD SUBDIVISION		
GENERAL LAYOUT		
BROWNING INC. <small>Consulting Engineers Jackson, Mississippi</small>		
Designed By: P. J. B.	Scale: 1" = 100'	Sheet 2 of 15
Drawn By: J. F. T.	Date: MAR, 2003	



Elevation



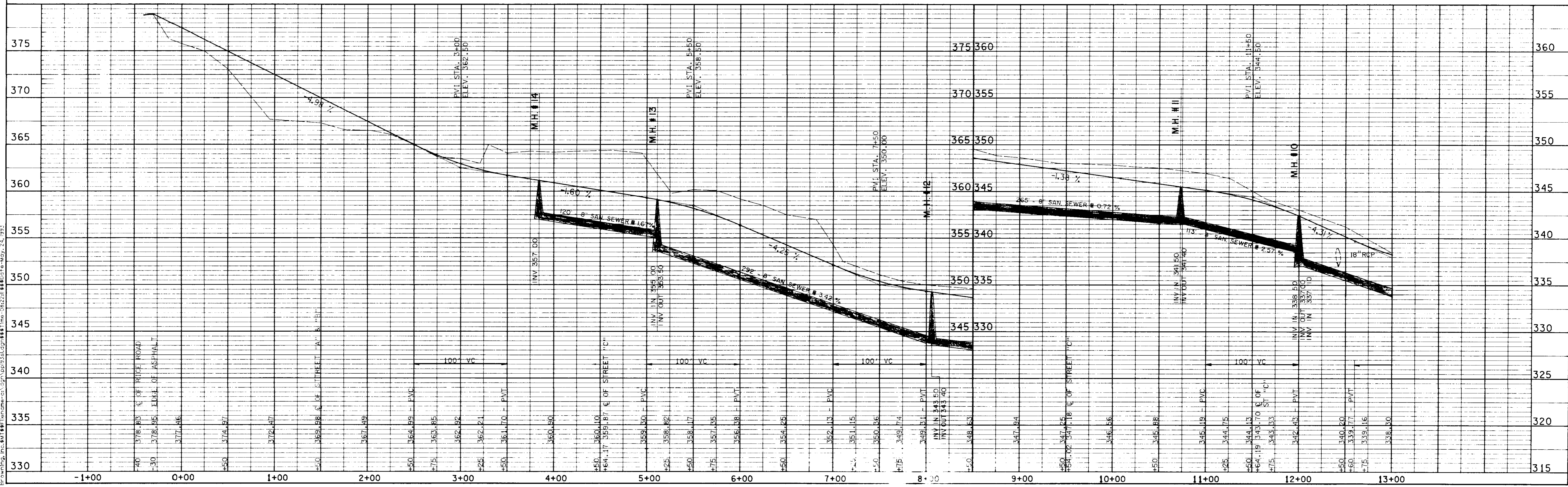
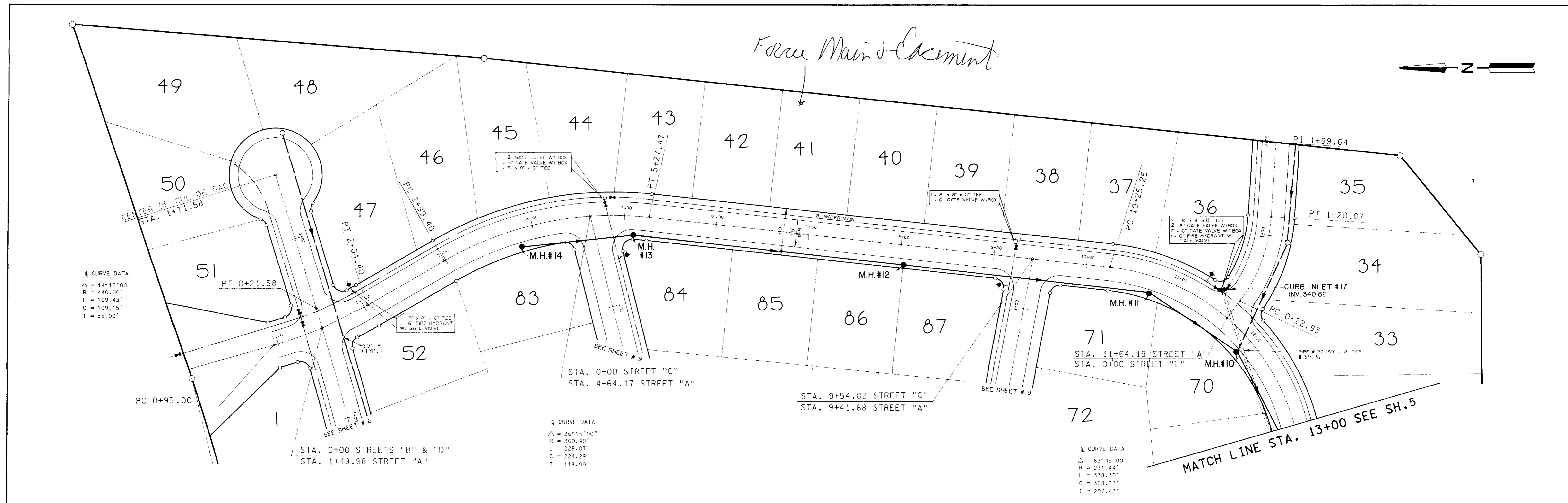
*Flow Calculations
Subdivision Design ?*

NOTE: 10' UTILITY EASEMENT ALONG THE BACK SIDE OF ALL STREETS.

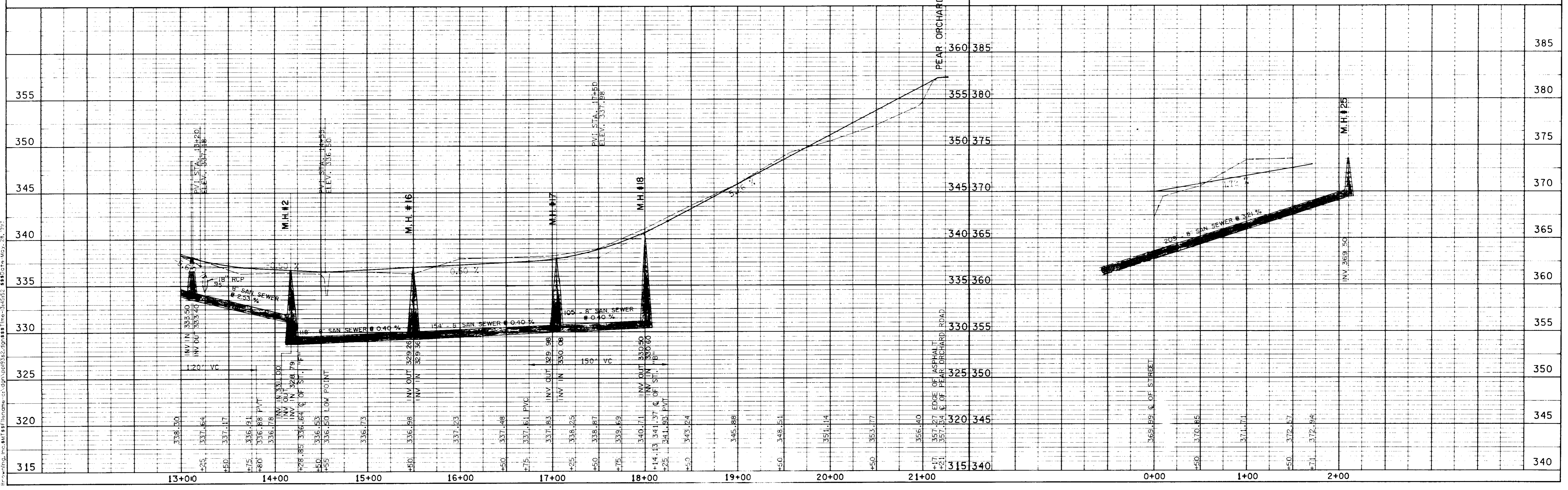
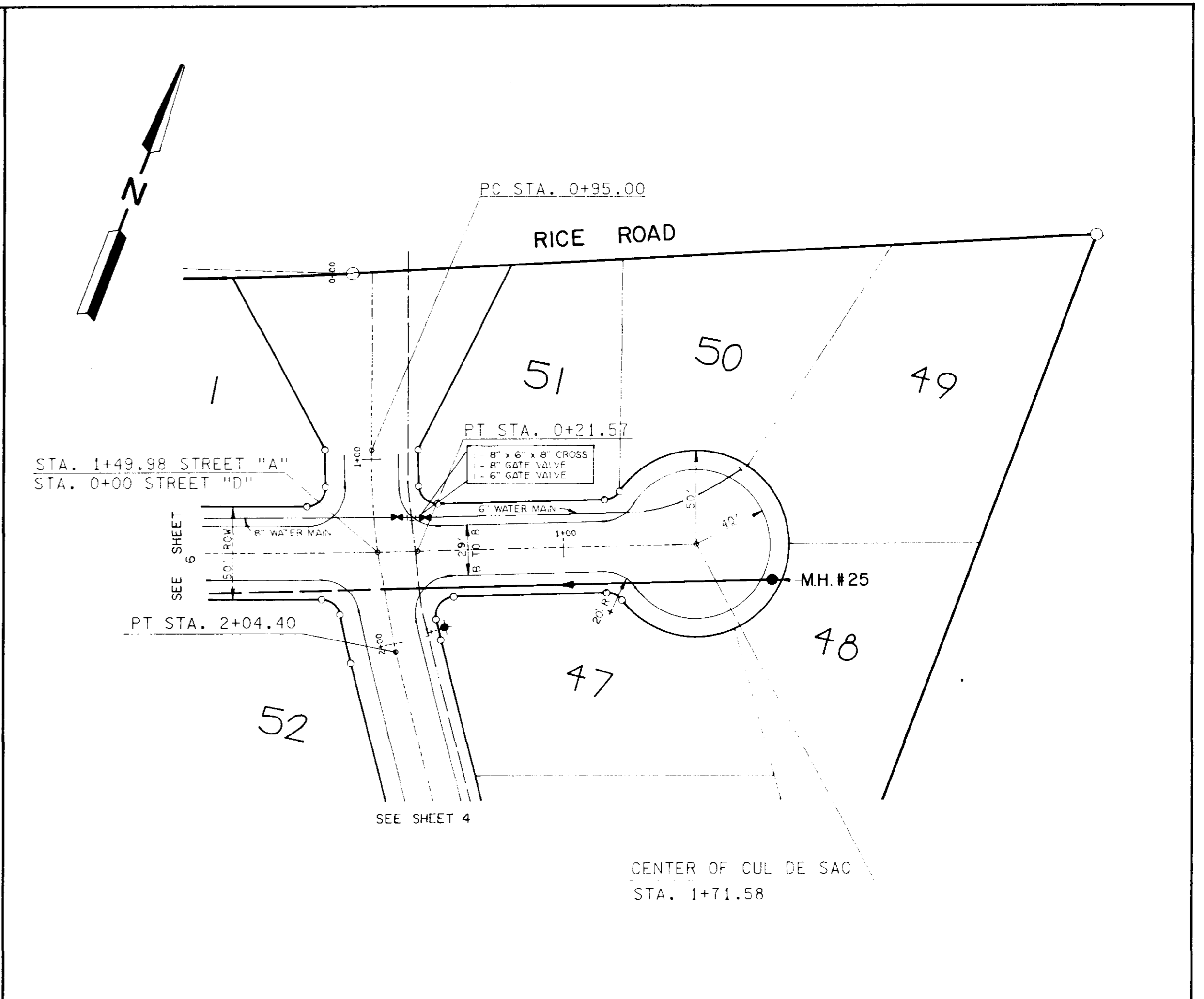
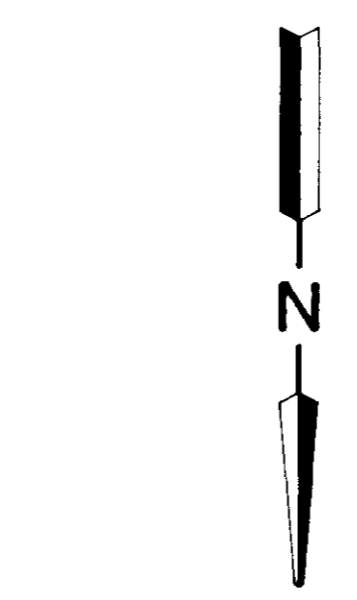
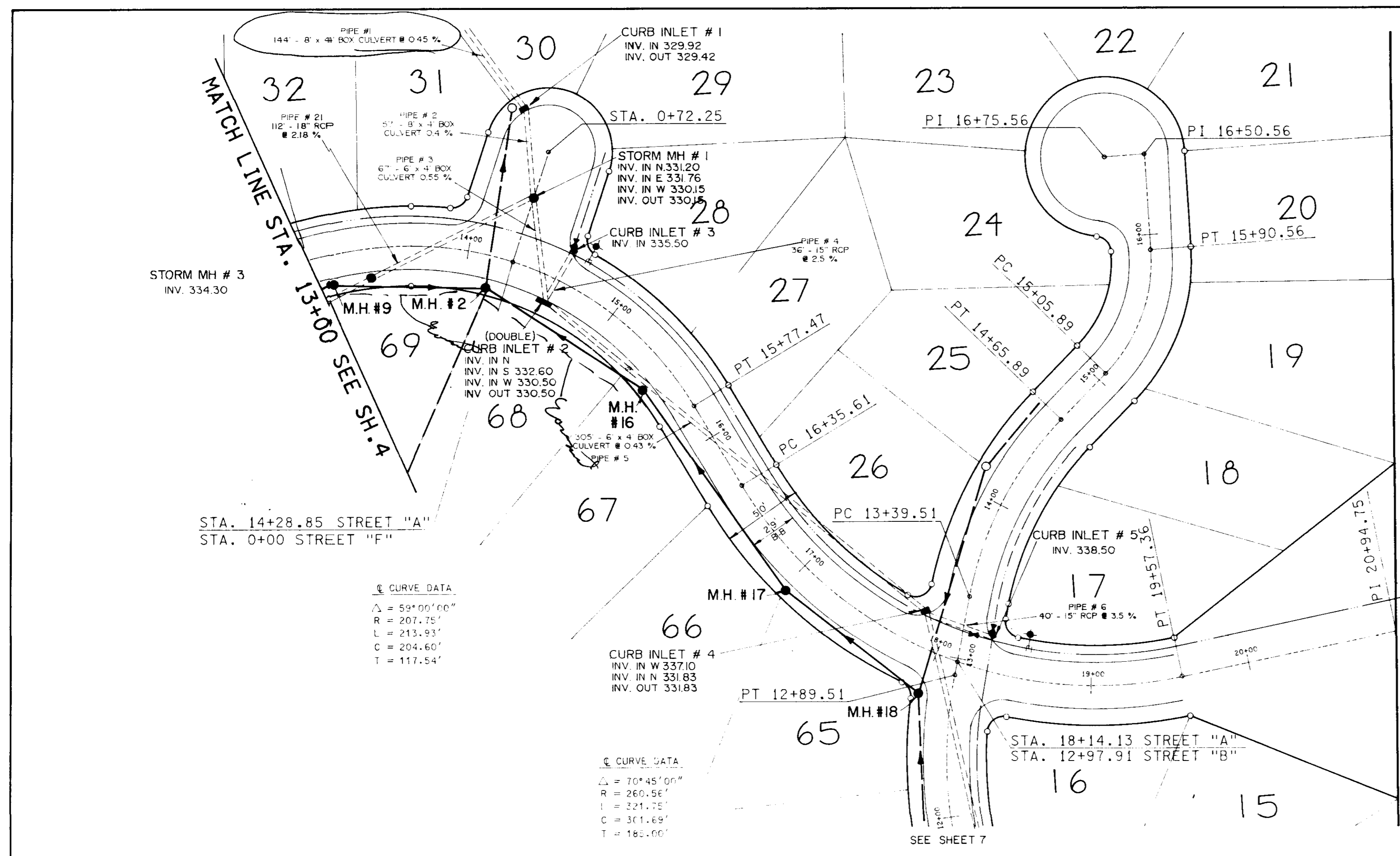
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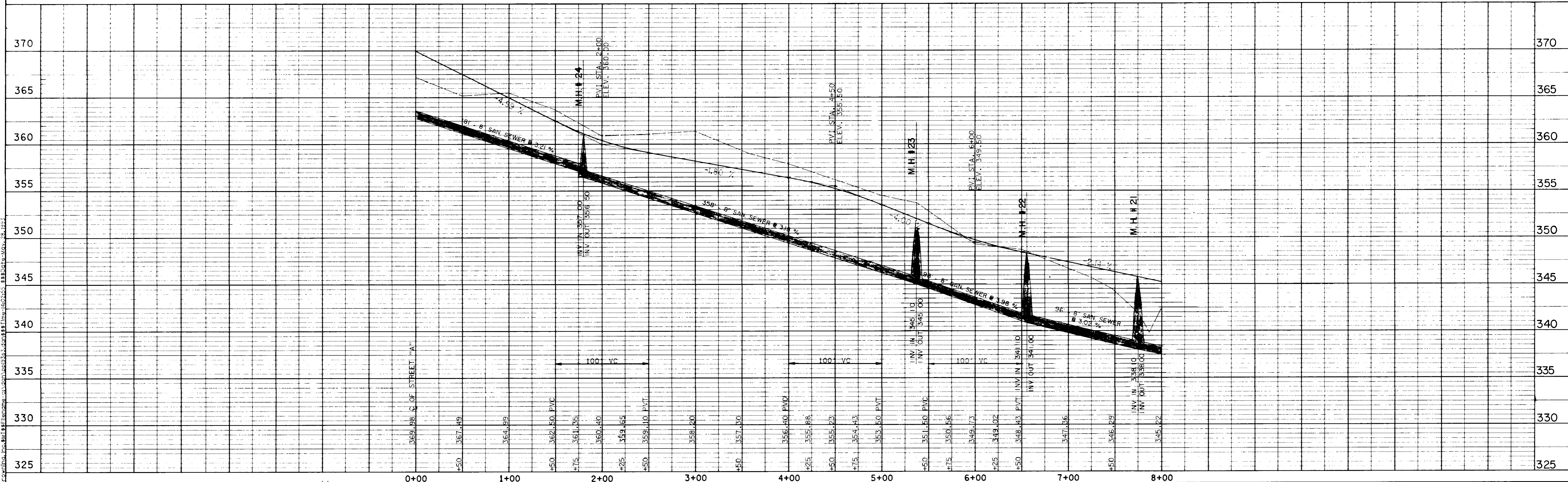
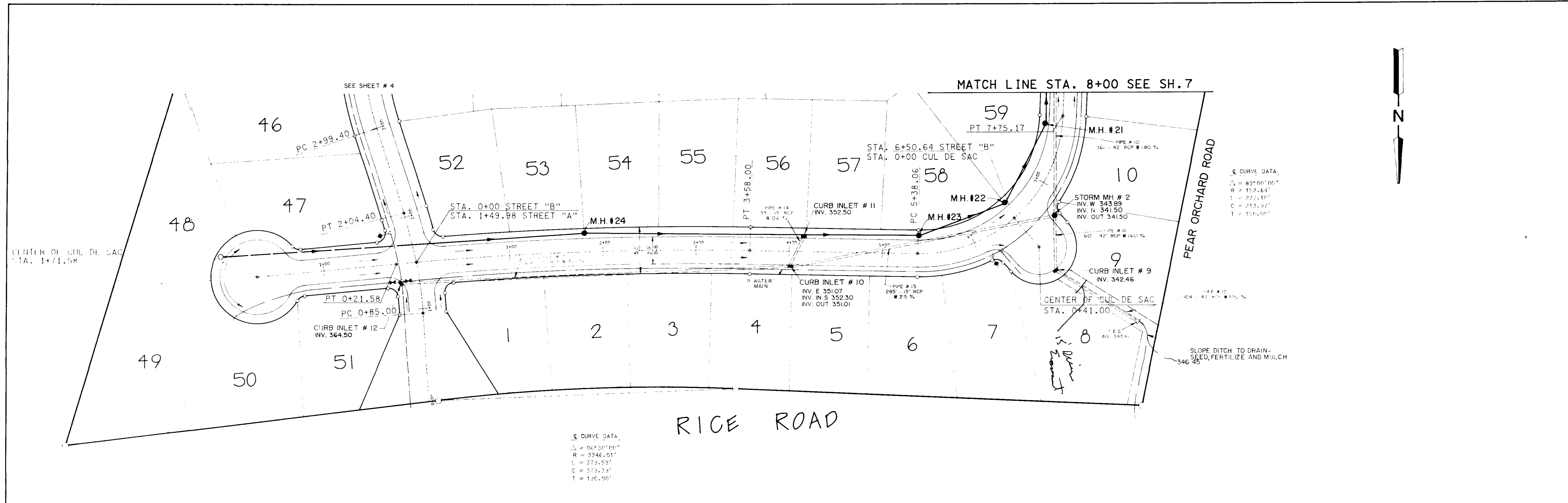
Prepared By:
BROWNING, INC.
CONSULTING ENGINEERS-SURVEYORS
P.O. Box 12711
1058 Ridgewood Place
Jackson, Mississippi 39211

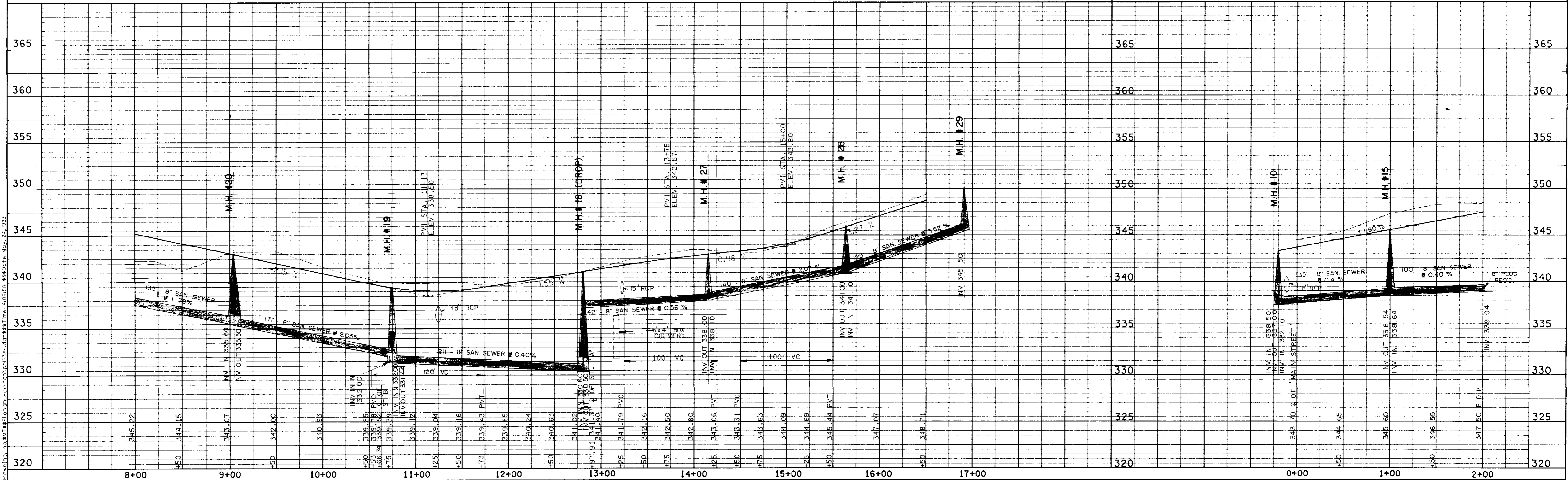
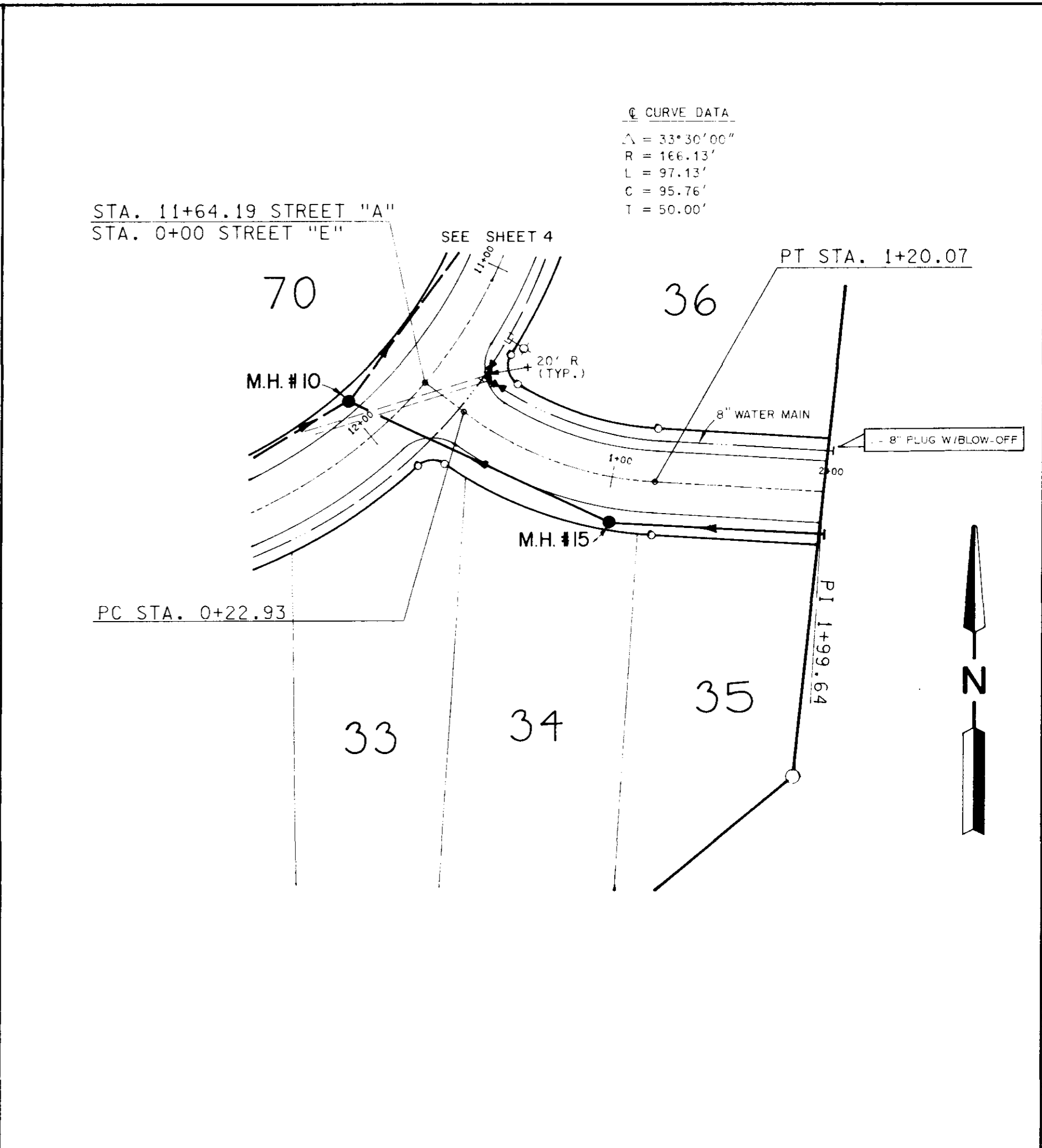
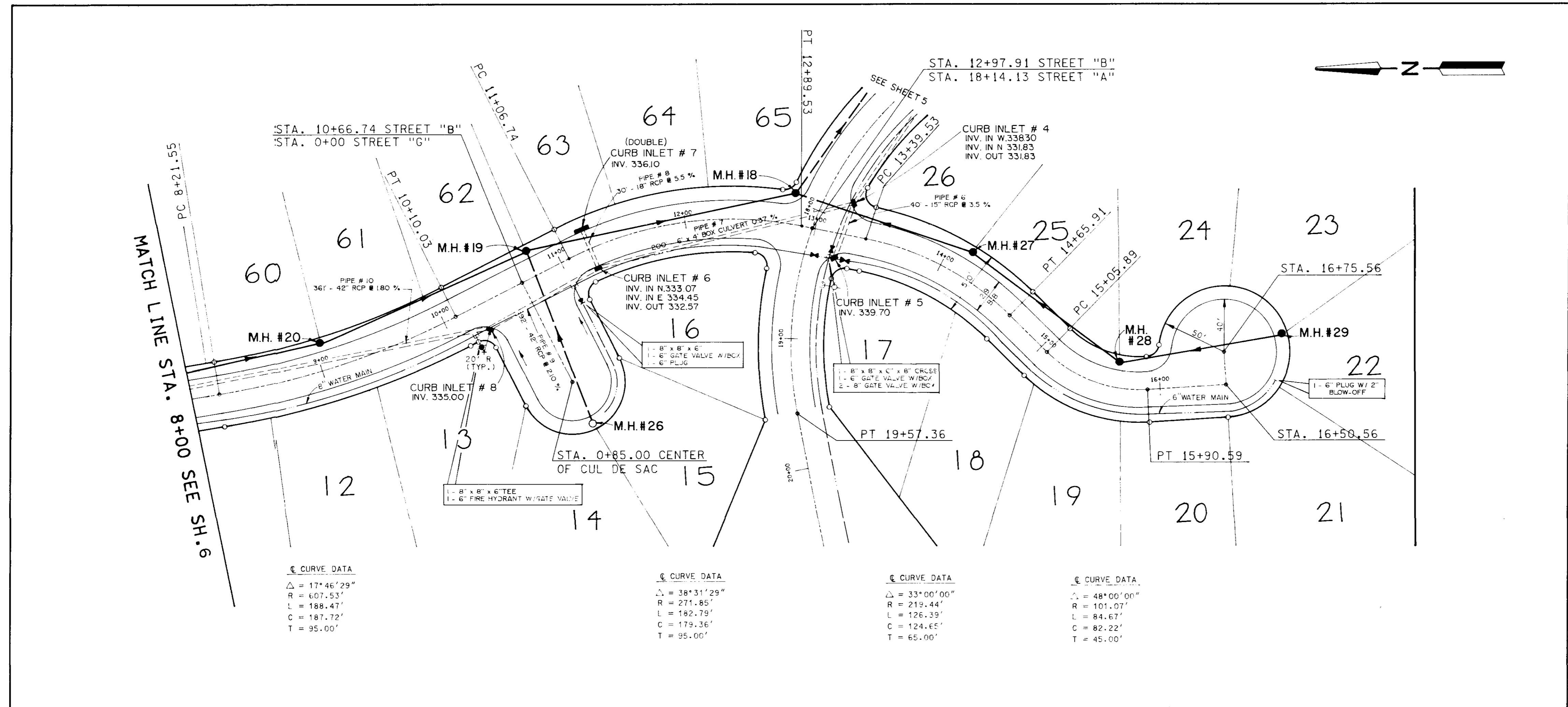
SHADOWOOD SUBDIVISION		
DRAINAGE LAYOUT		
BROWNING INC. Consulting Engineers Jackson, Mississippi		
Designed By: P.L.B.	Scale: 1" = 100'	Sheet 3 of 15
Drawn By: M.T.	Date: MAY, 1993	

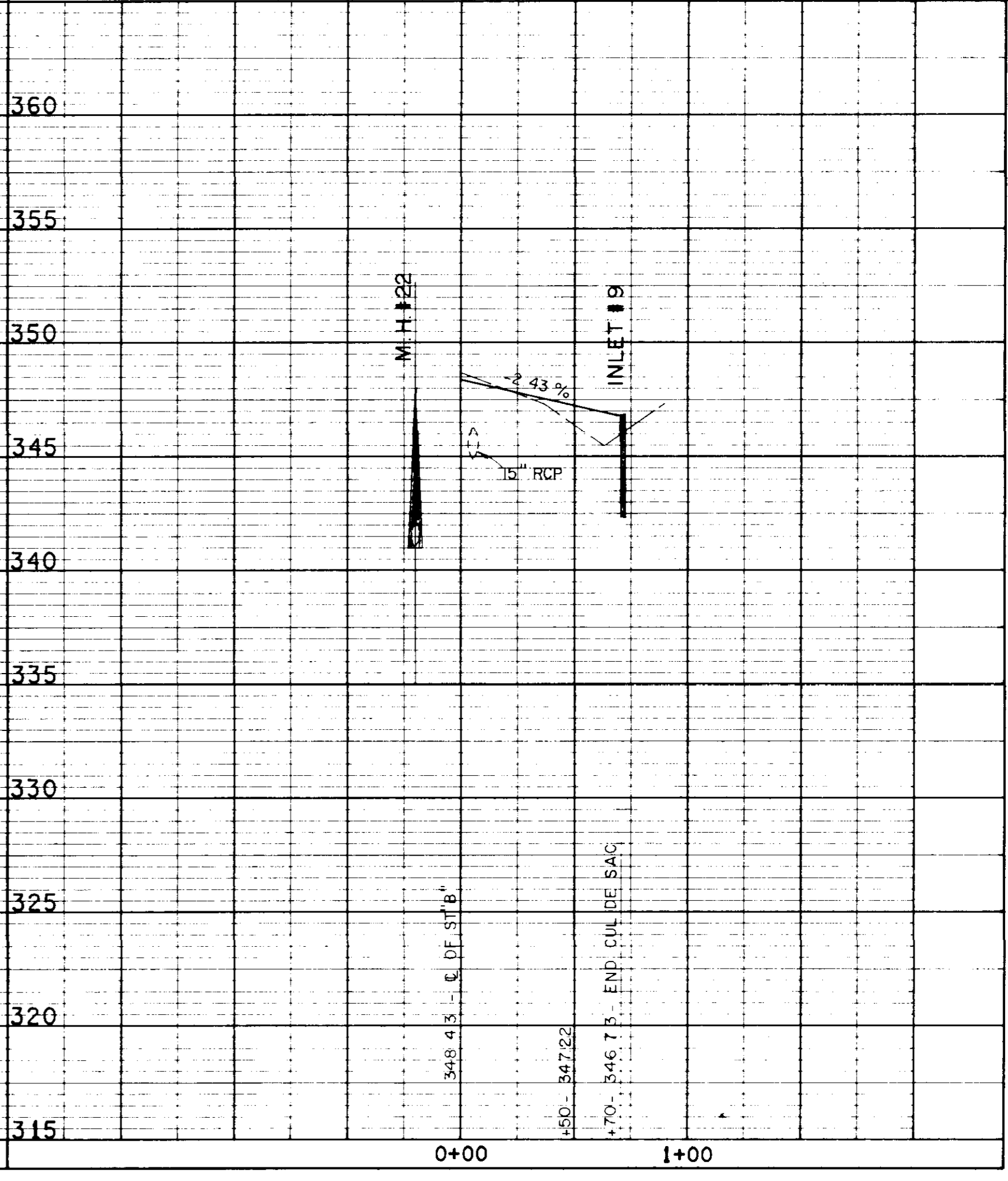
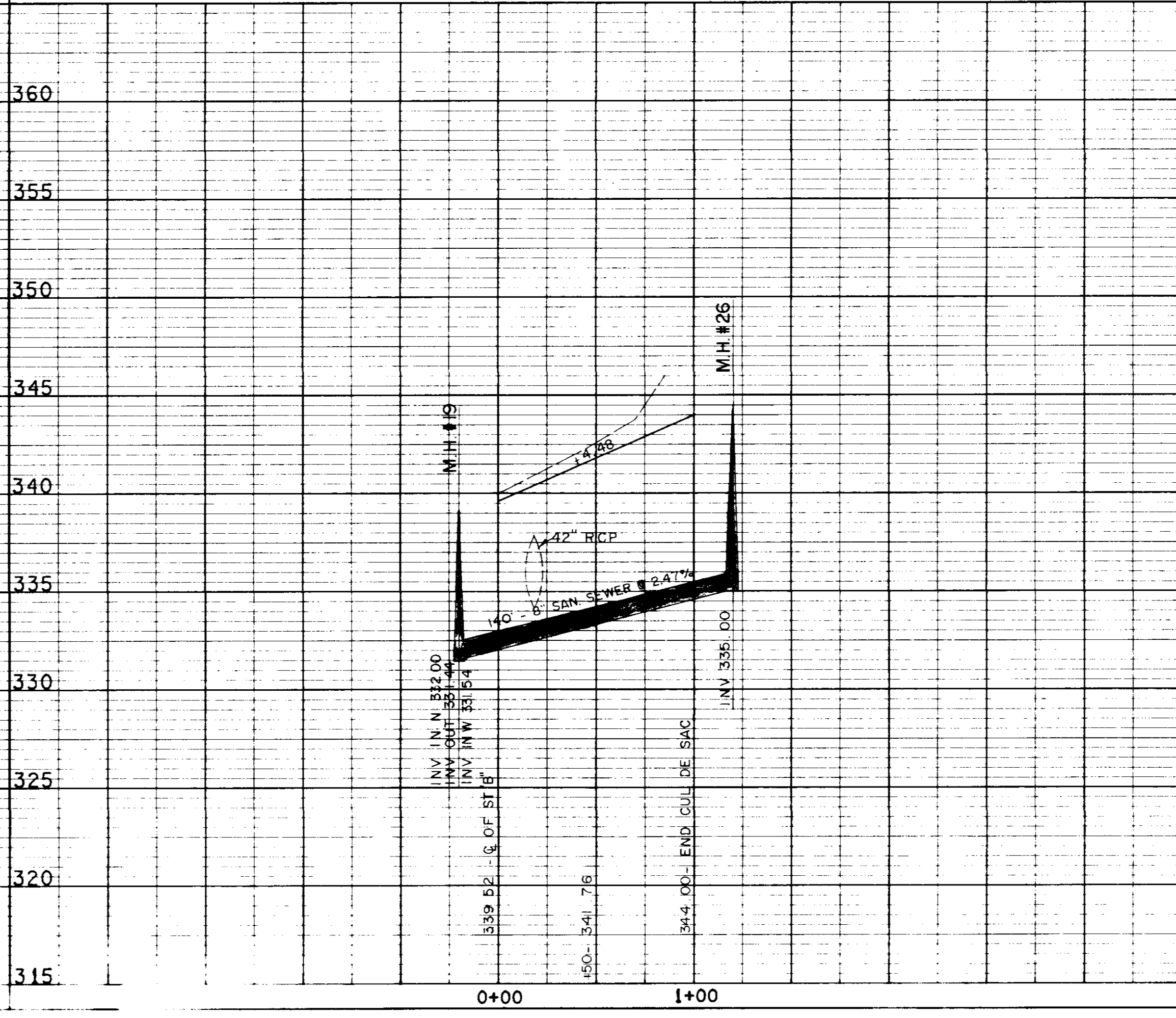
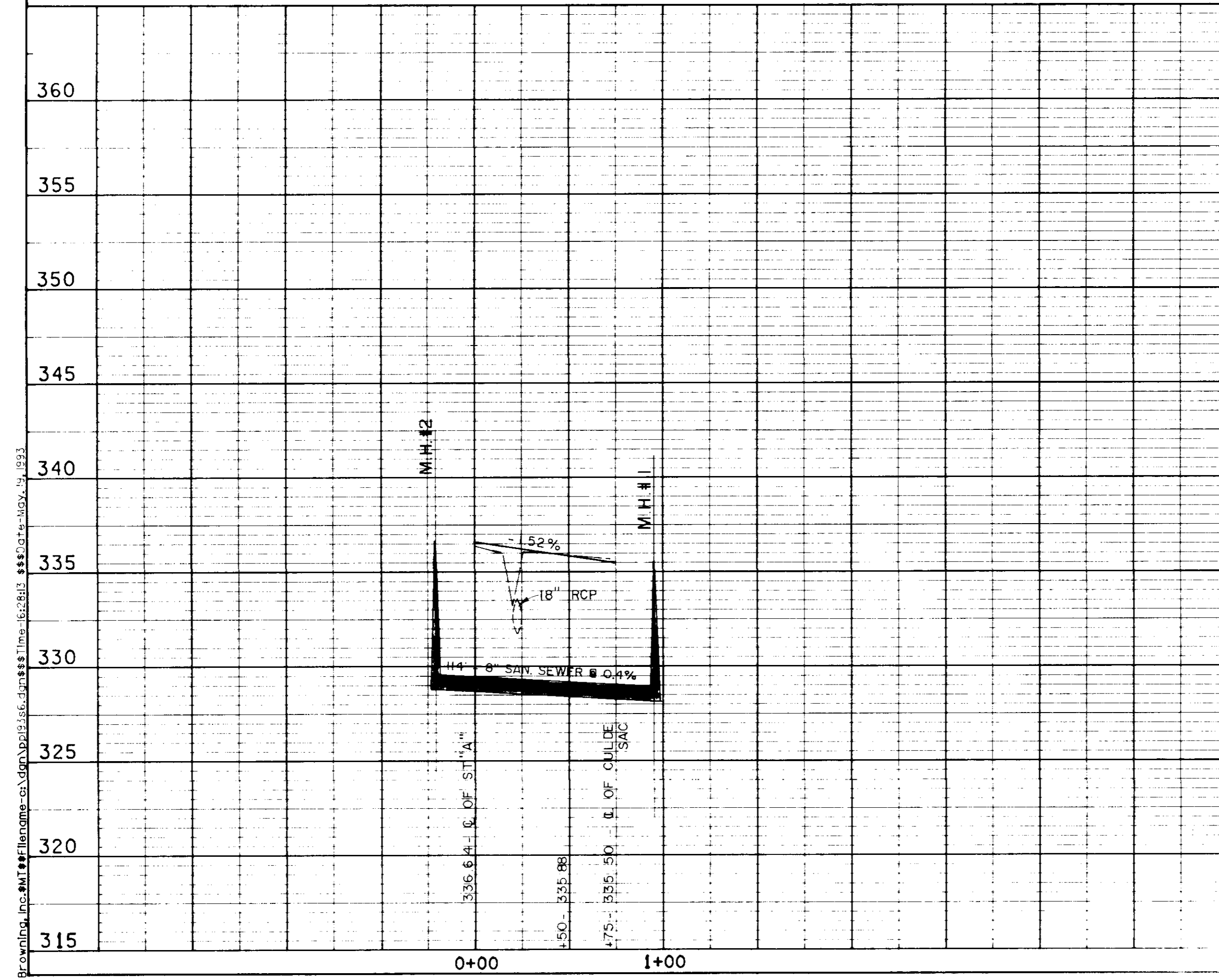
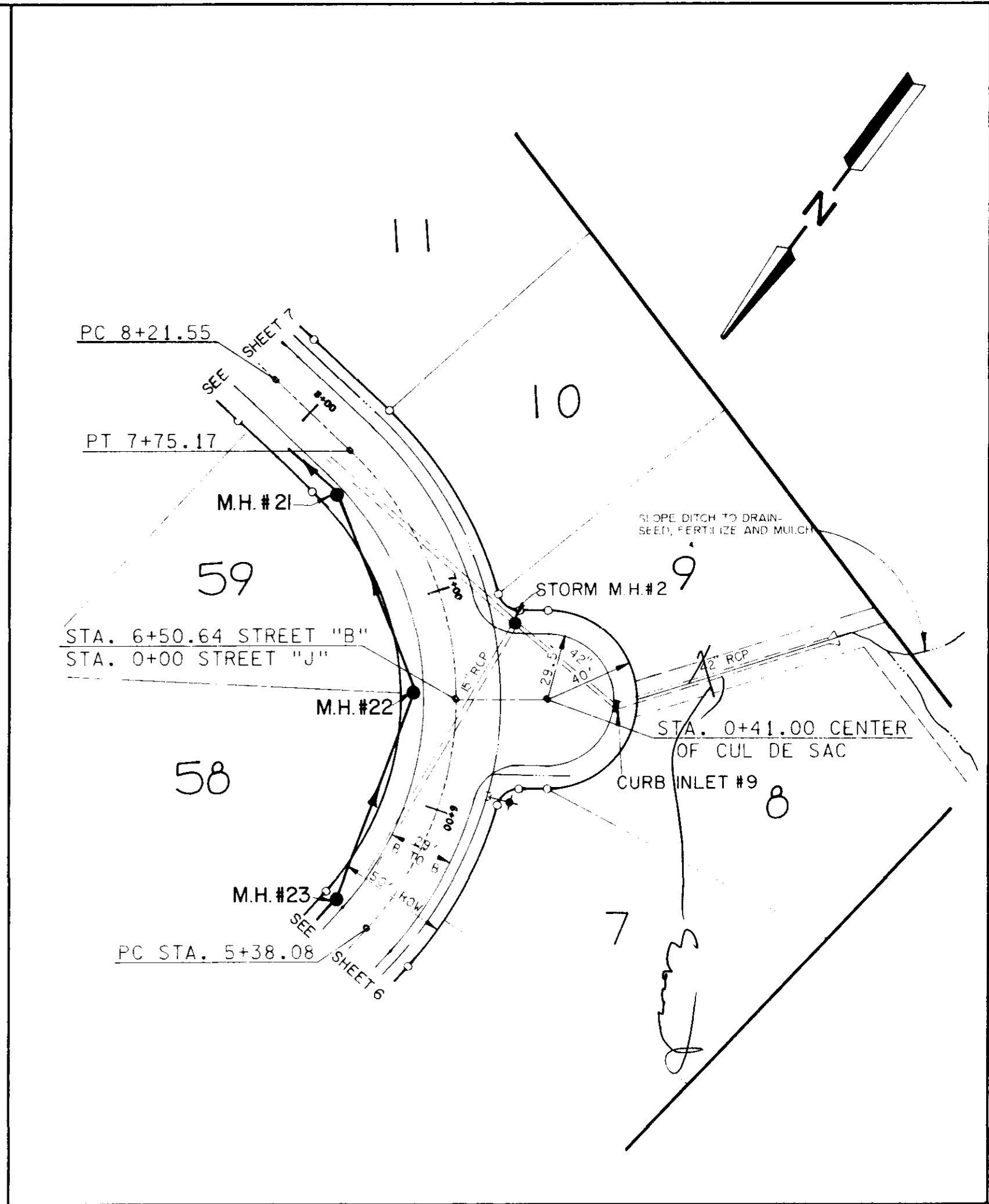
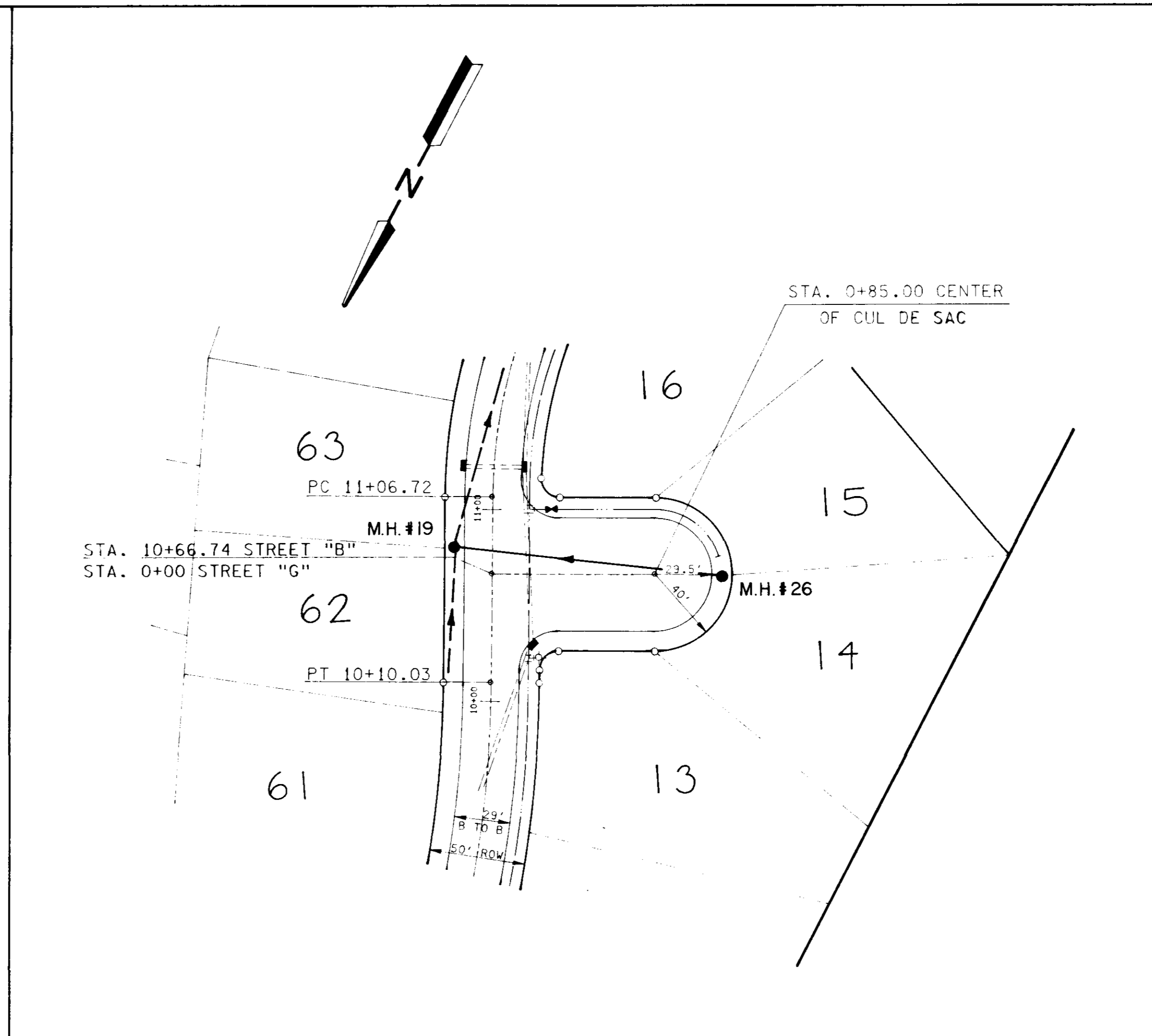
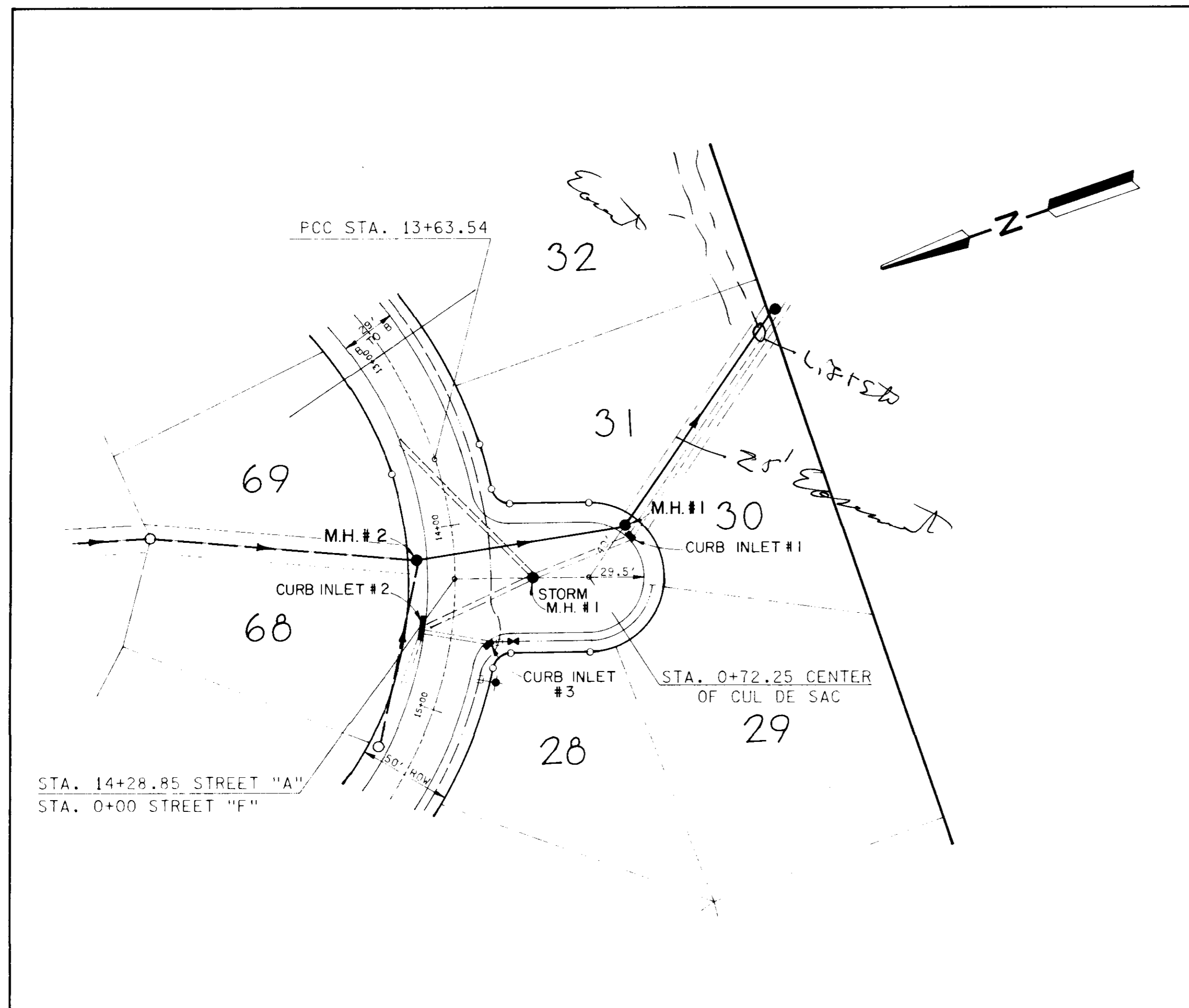


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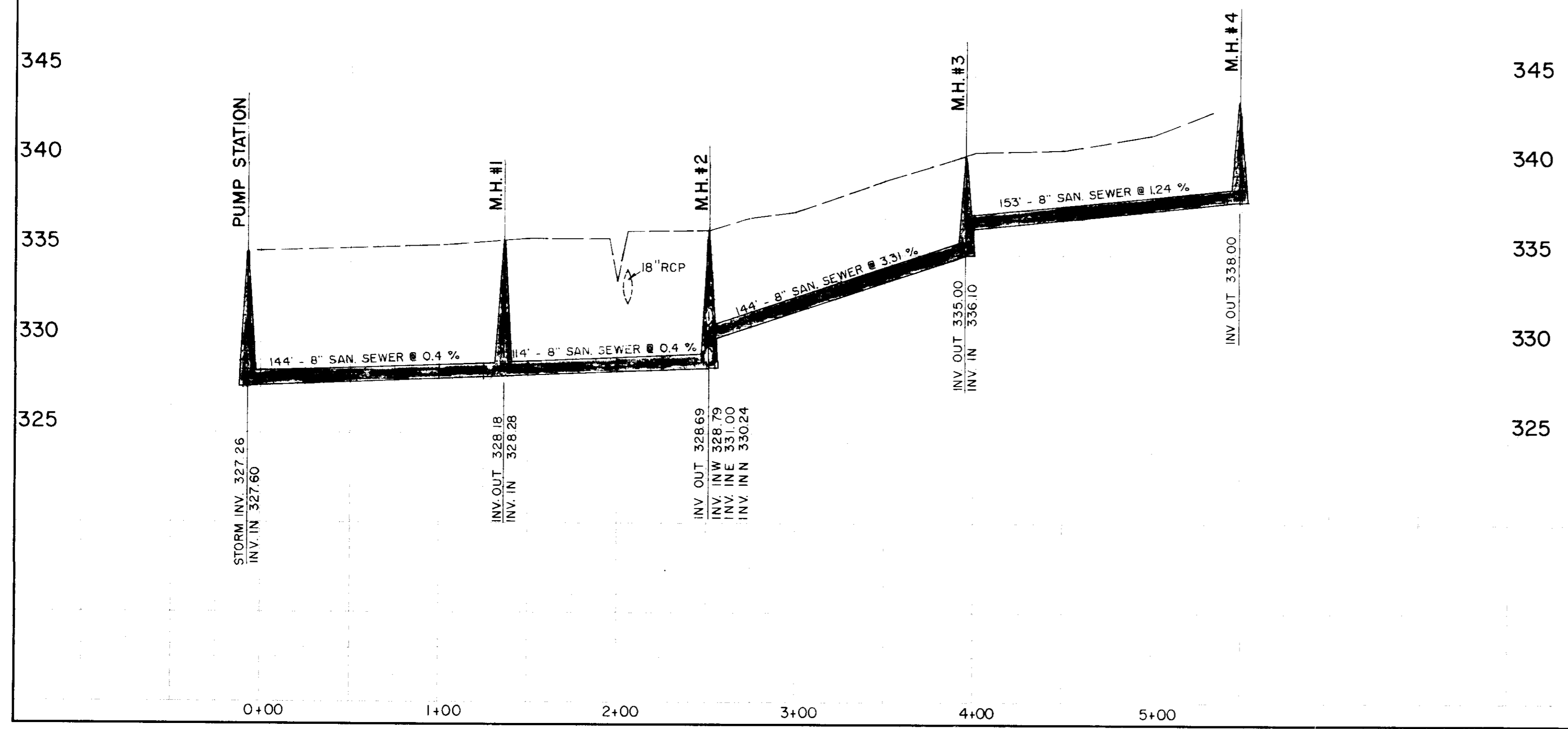
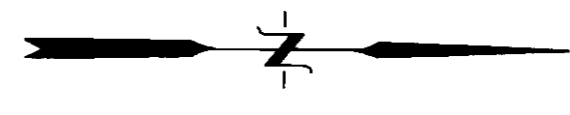
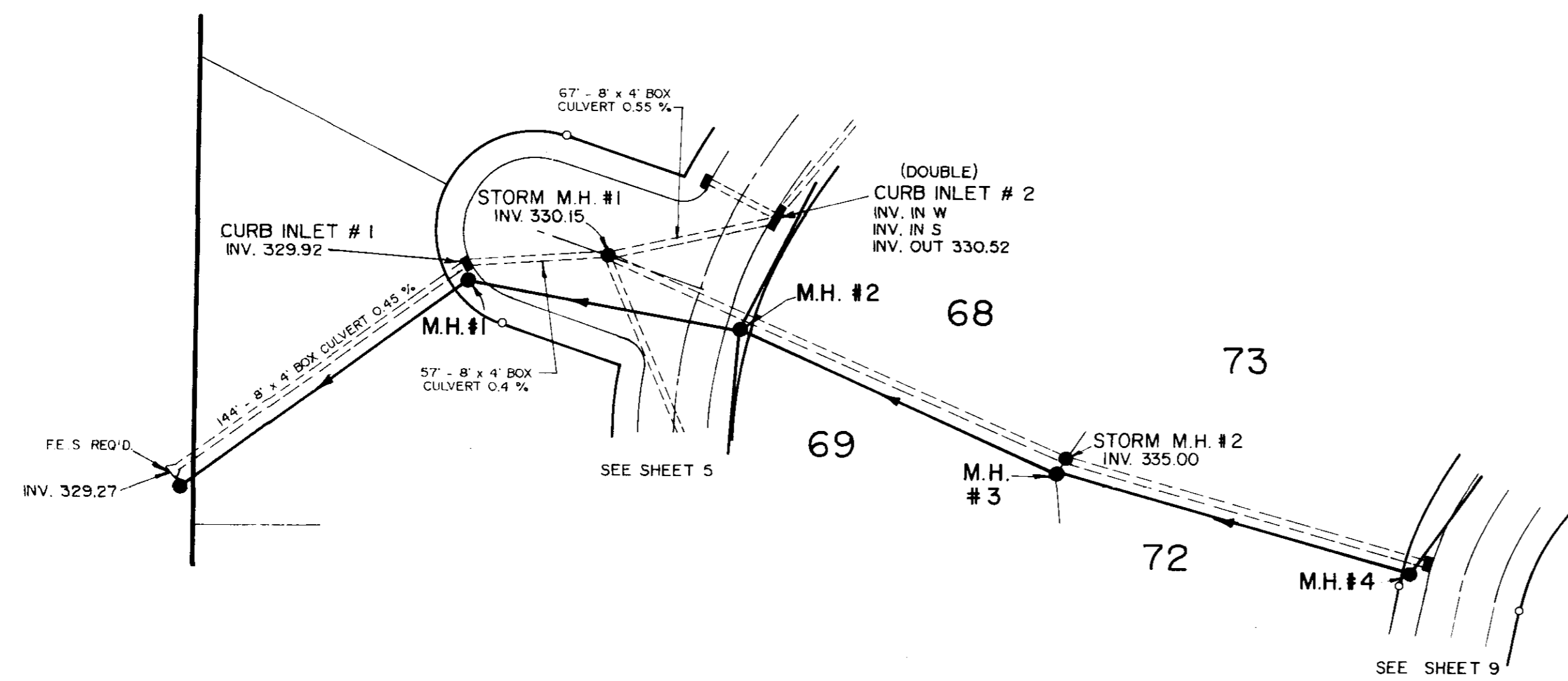


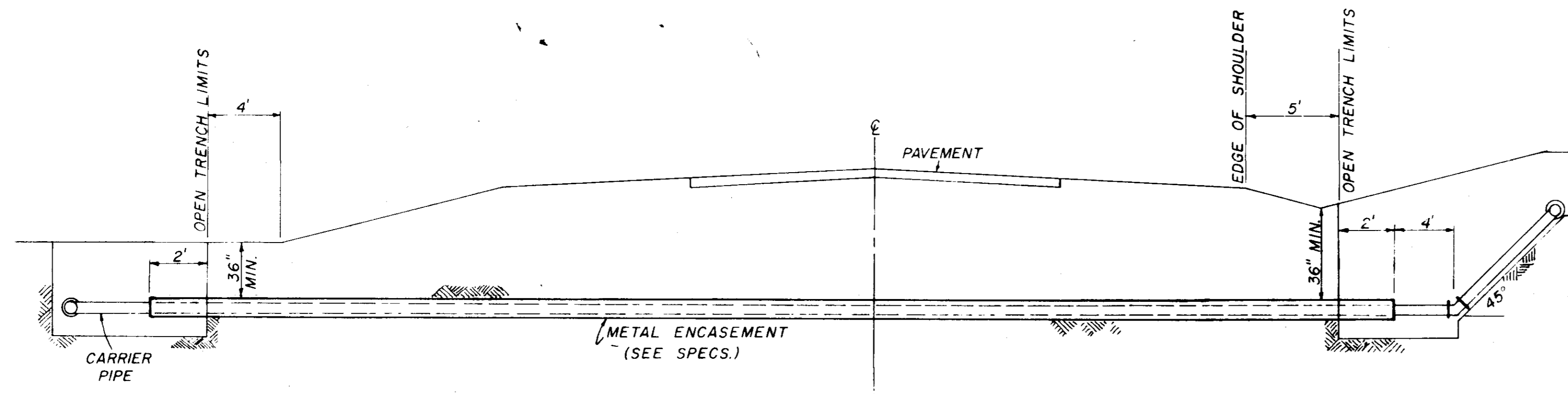


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NO.	
PLAN	DESIGNED
	CHECKED
	APPROVED
	DATE
	BY
	NO.

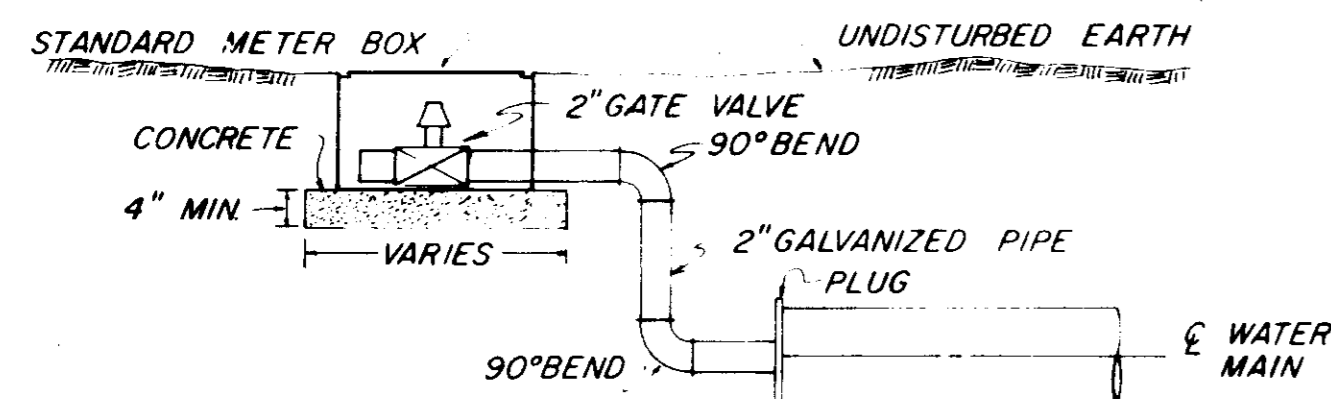
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	CHECKED
	APPROVED
	DATE
	BY
	NO.



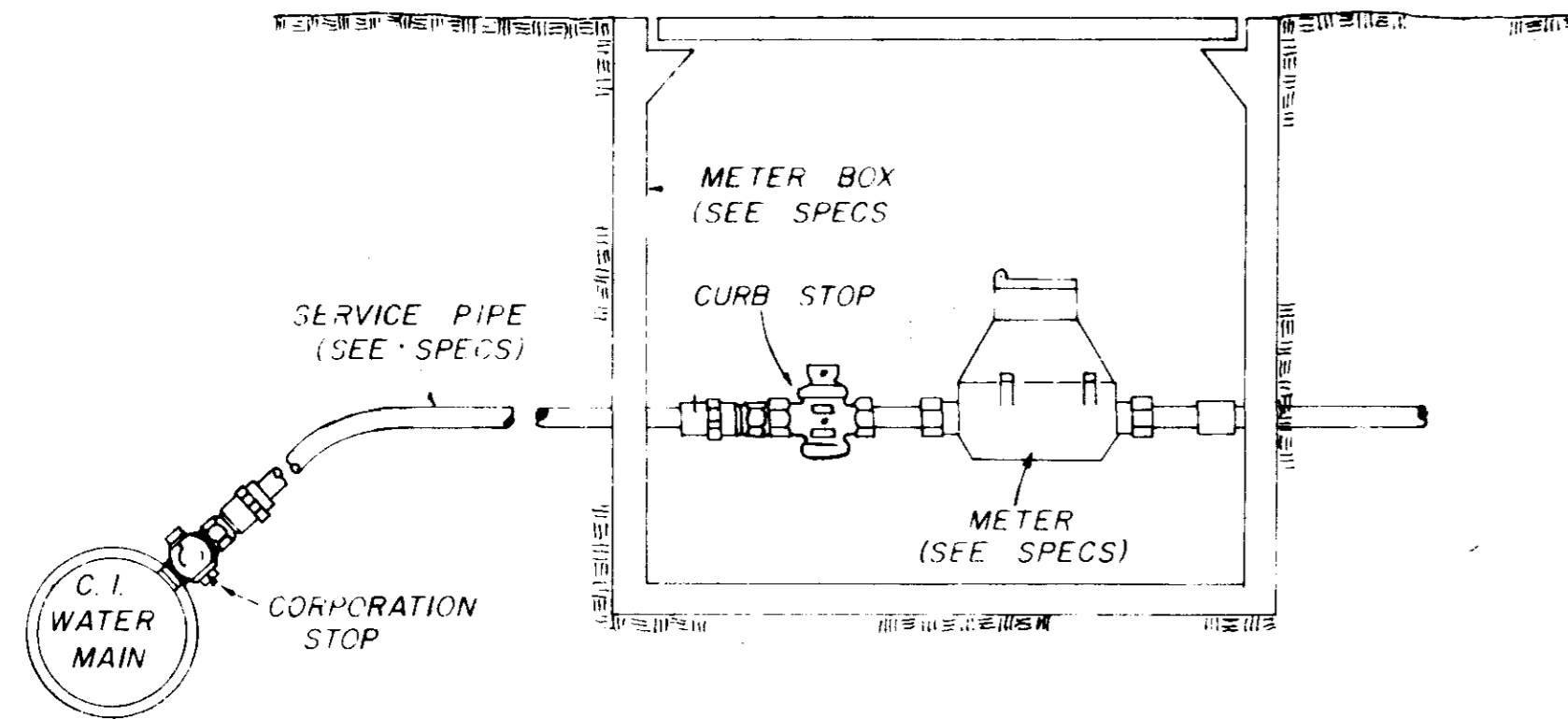


TYPICAL CASSED CROSSING

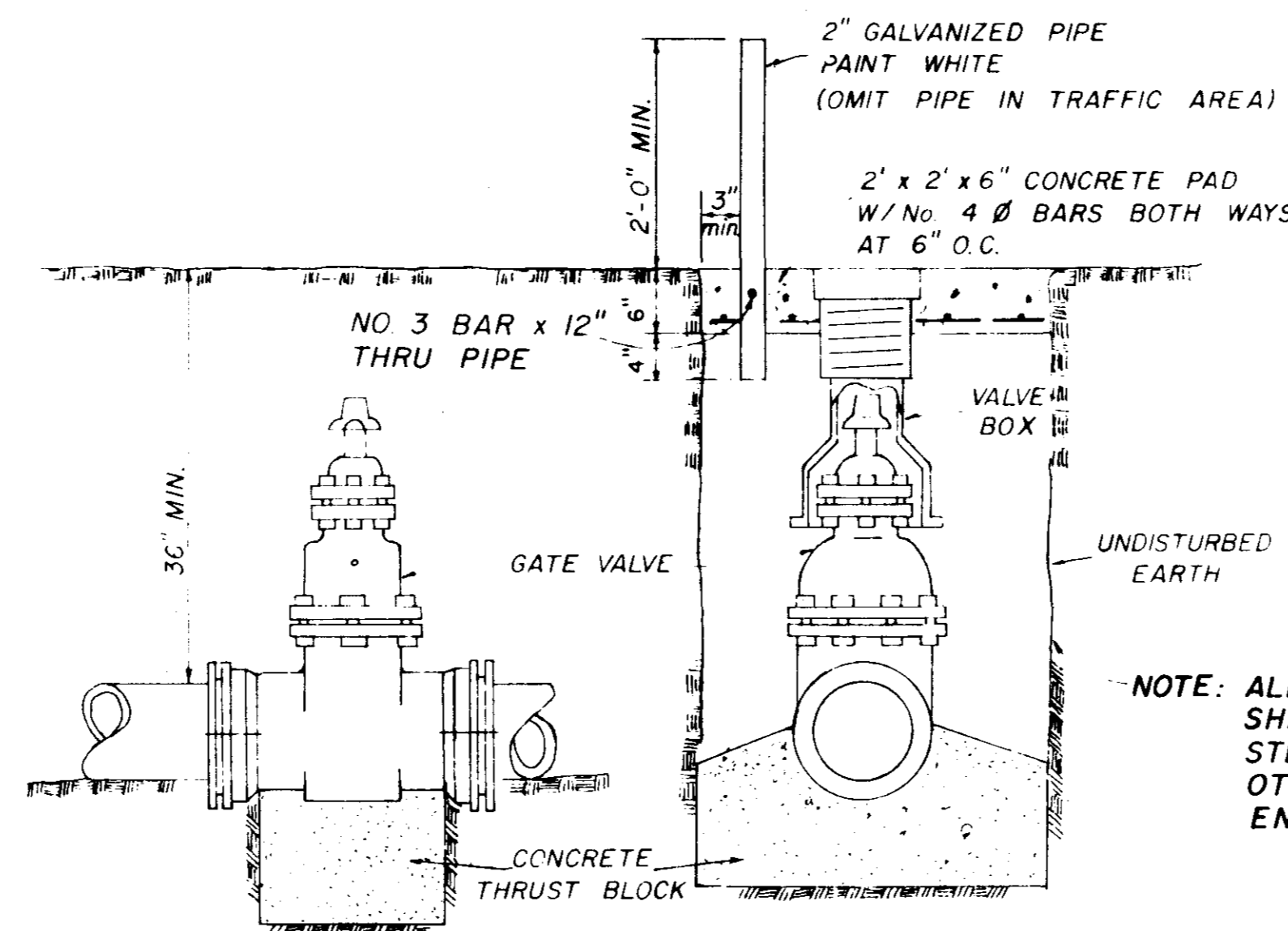
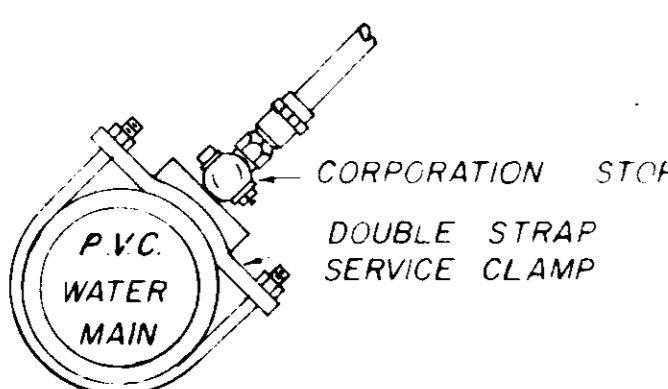
NOTE: COMPENSATION FOR CONCRETE THRUST BLOCKS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.



TYPICAL 2" BLOW-OFF DETAIL



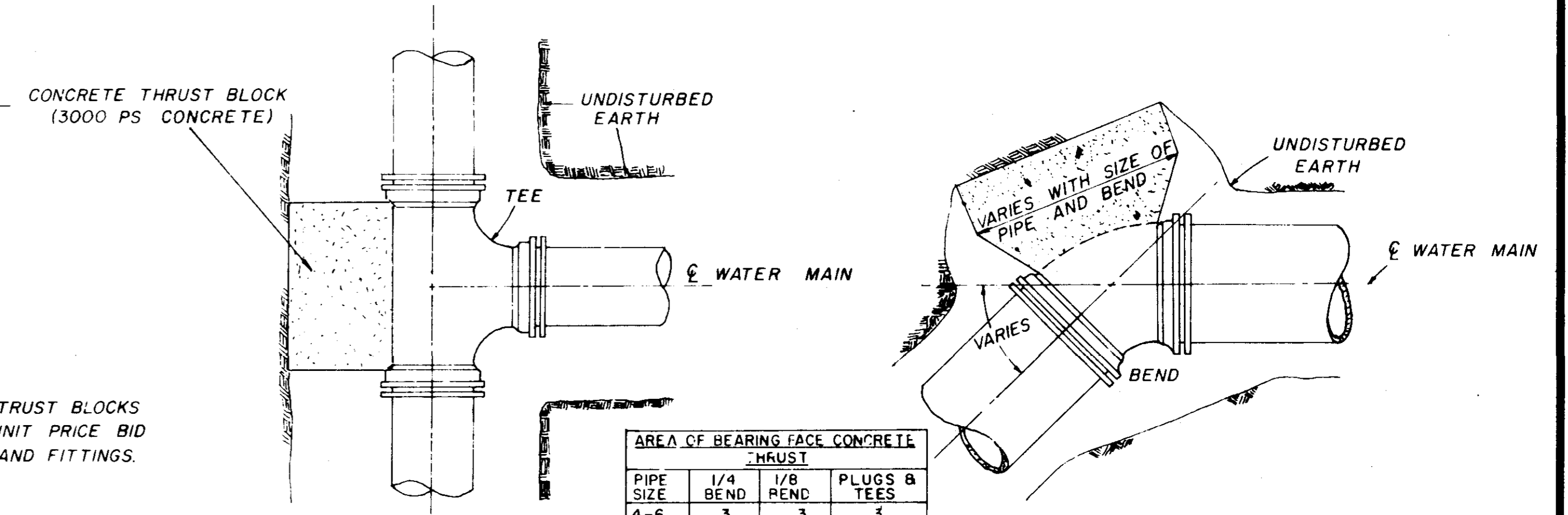
TYPICAL SERVICE ASSEMBLY



ELEVATION SECTION

TYPICAL VALVE & BOX

NOTE: ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STEEL RODS (3/4" MIN) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.

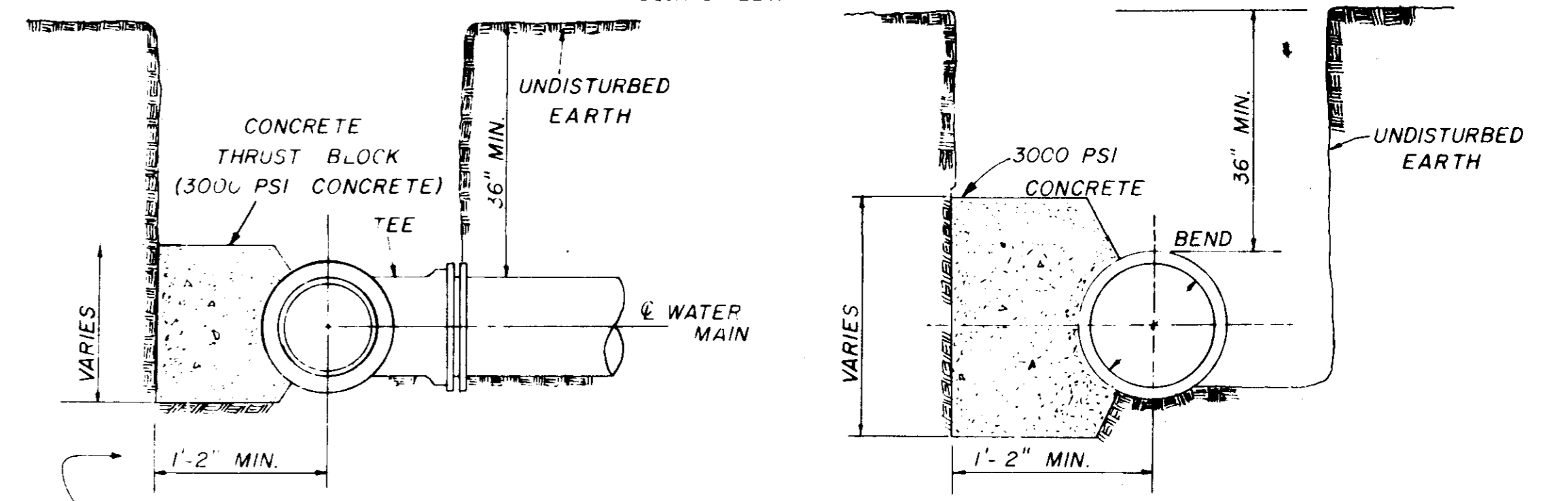


PLAN

PLAN

PIPE SIZE	1/4 BEND	1/8 BEND	PLUGS & TEES
4-6	3	3	3
8	3	3	3
10	4	3	4
12	6	3	4
16	11	4	7

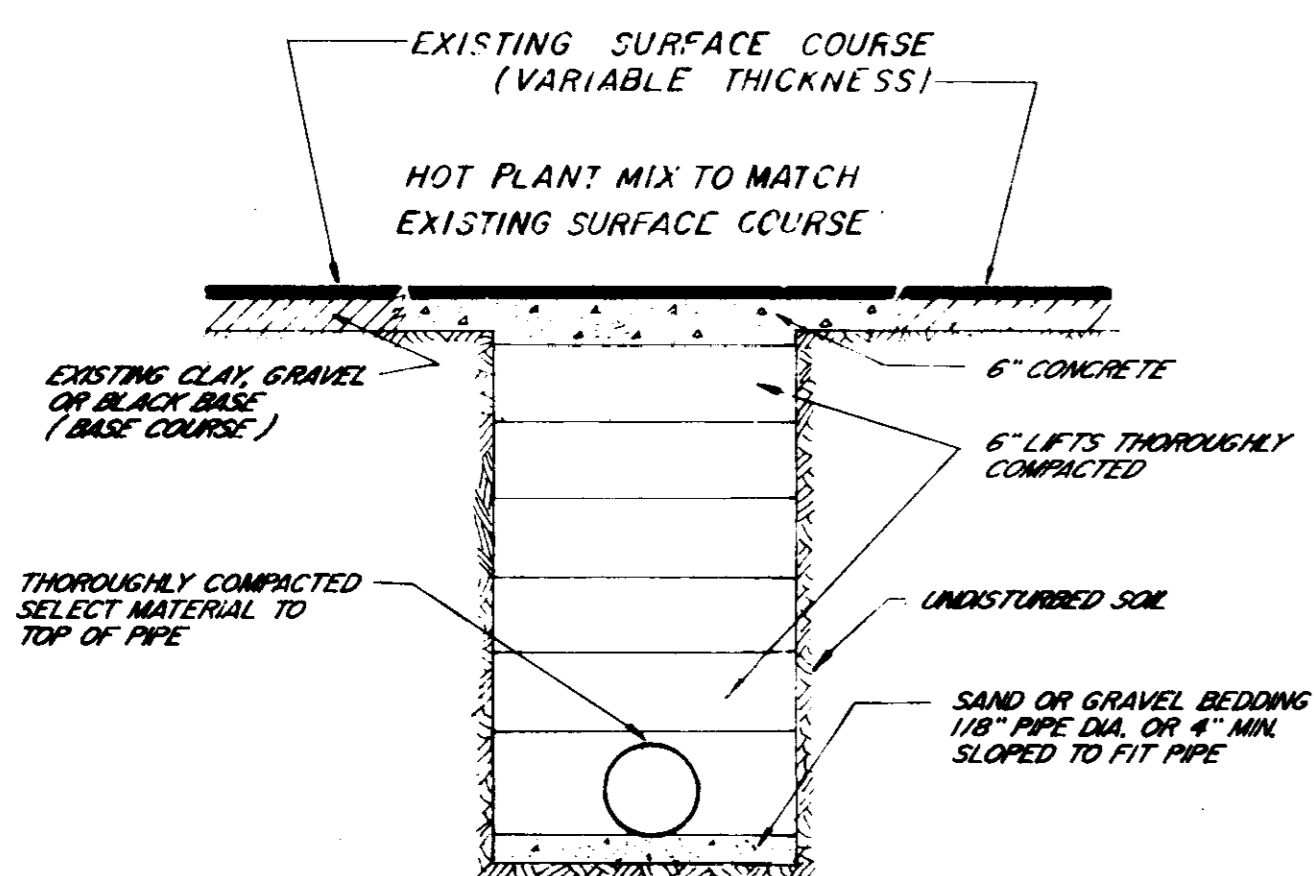
NOTE: AREA OF BEARING FACE IN SQUARE FEET.



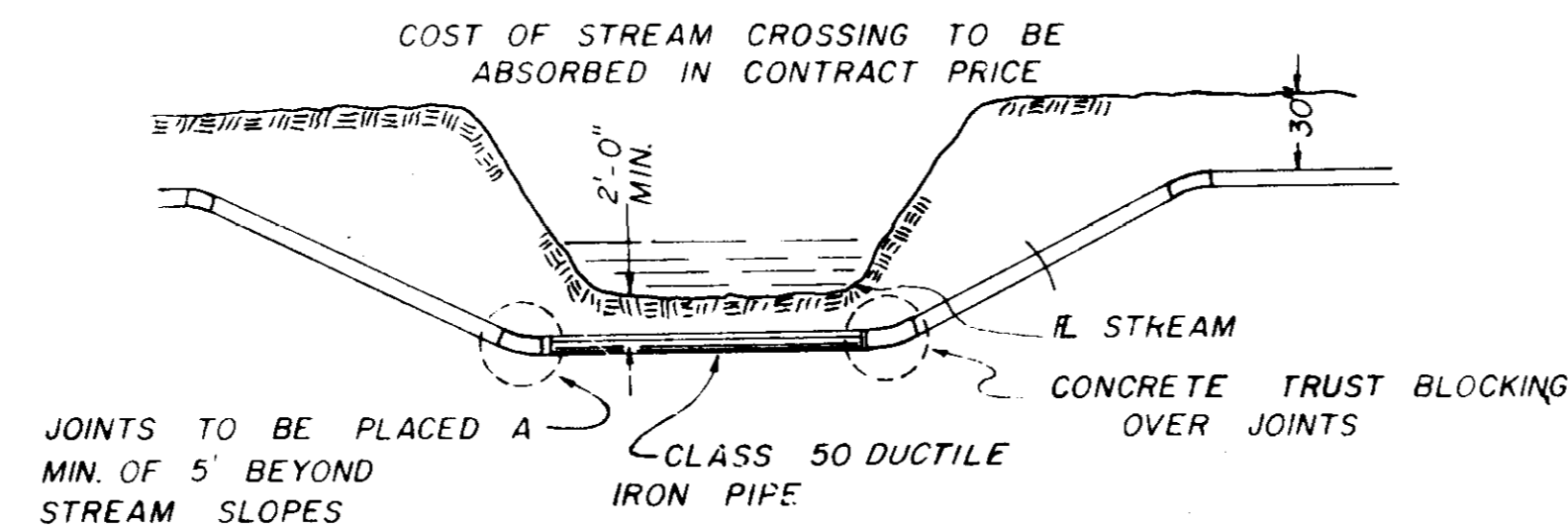
SECTION

SECTION

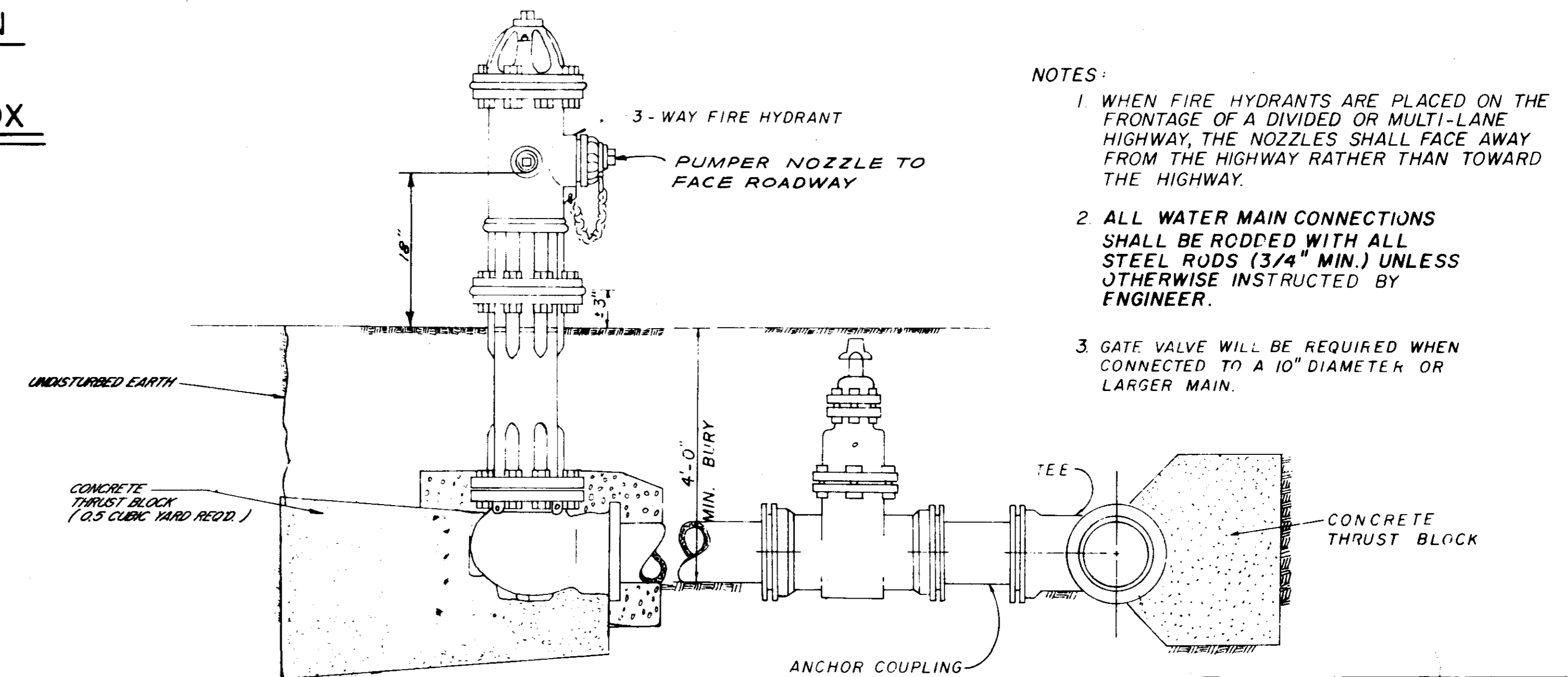
BLOCKING DETAILS FOR TEES & BENDS



STREET REPAIR OF OPEN CUT



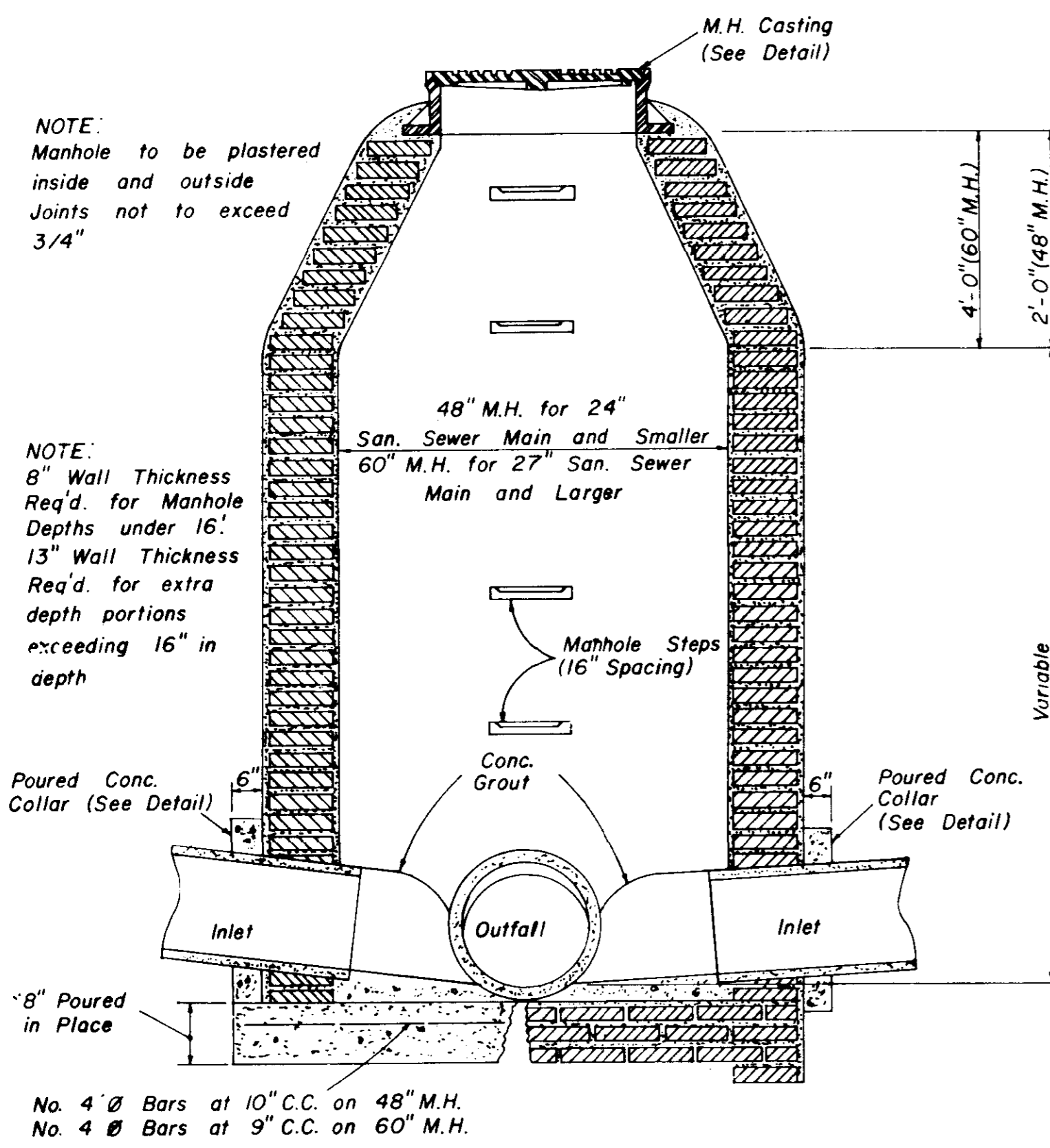
TYPICAL STREAM CROSSING



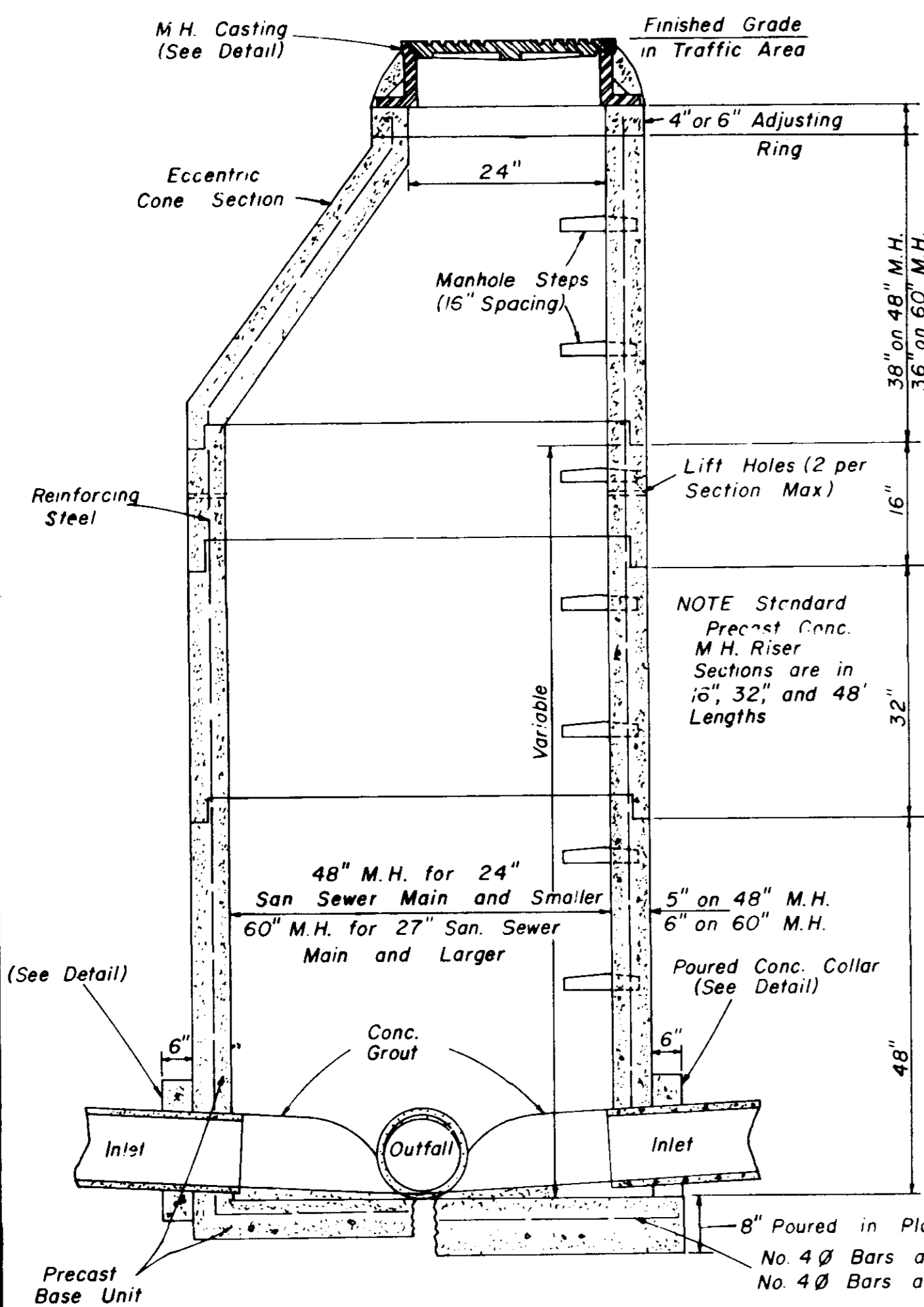
TYPICAL FIRE HYDRANT

- NOTES:
- 1 WHEN FIRE HYDRANTS ARE PLACED ON THE FRONTAGE OF A DIVIDED OR MULTI-LANE HIGHWAY, THE NOZZLES SHALL FACE AWAY FROM THE HIGHWAY RATHER THAN TOWARD THE HIGHWAY.
 - 2 ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STEEL RODS (3/4" MIN.) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.
 - 3 GATE VALVE WILL BE REQUIRED WHEN CONNECTED TO A 10" DIAMETER OR LARGER MAIN.

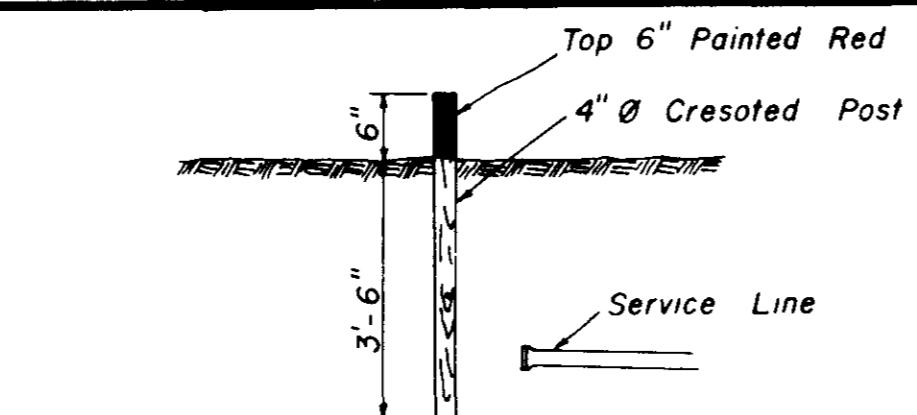
WATER SYSTEM STANDARD DETAILS



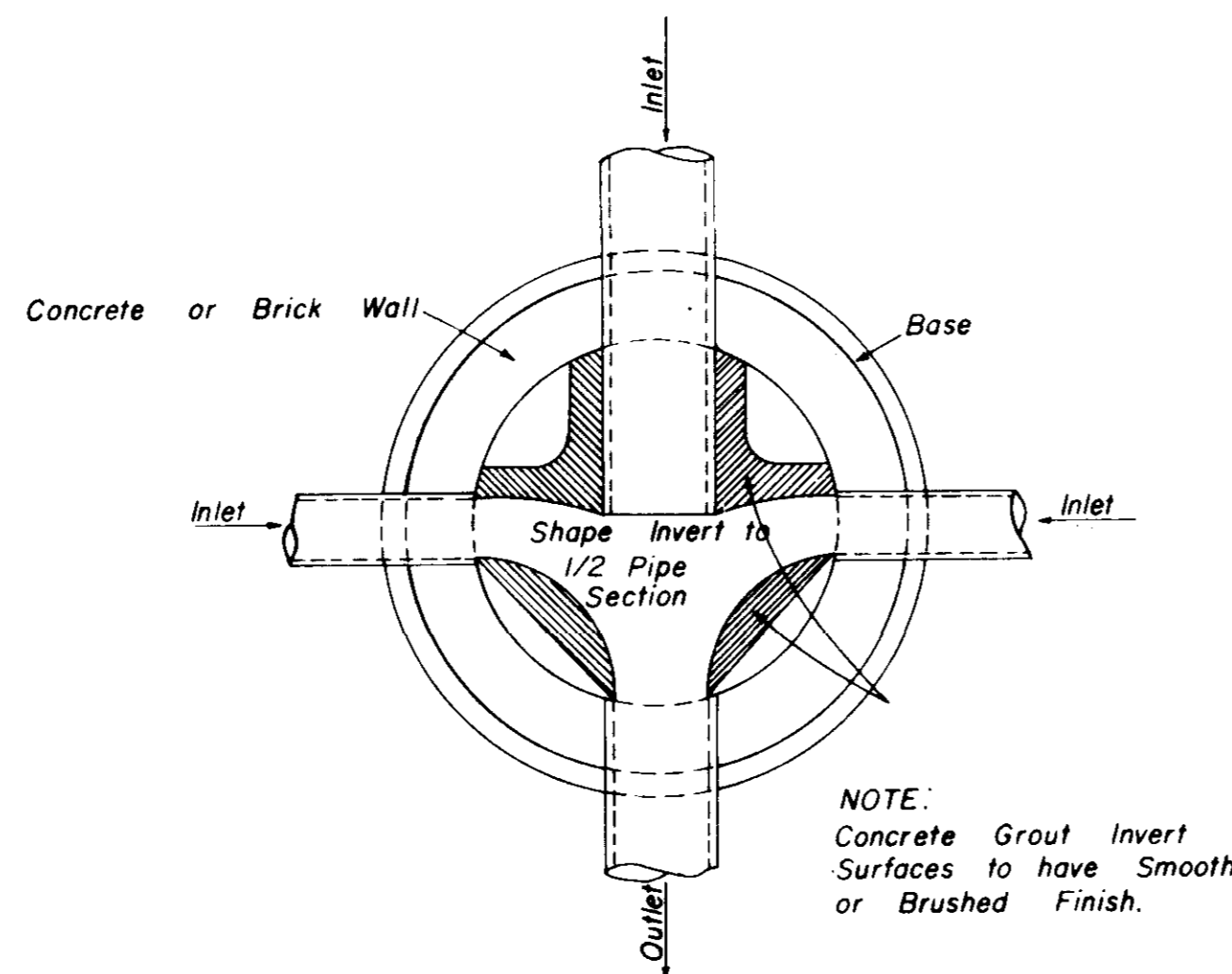
**SECTION
STANDARD BRICK MANHOLE**



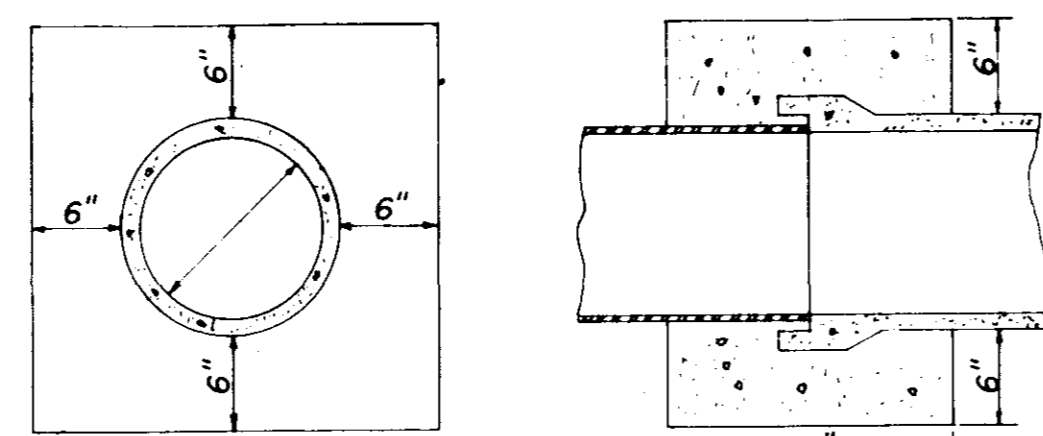
**SECTION
PRECAST CONCRETE MANHOLE**



SEWER SERVICE MARKER



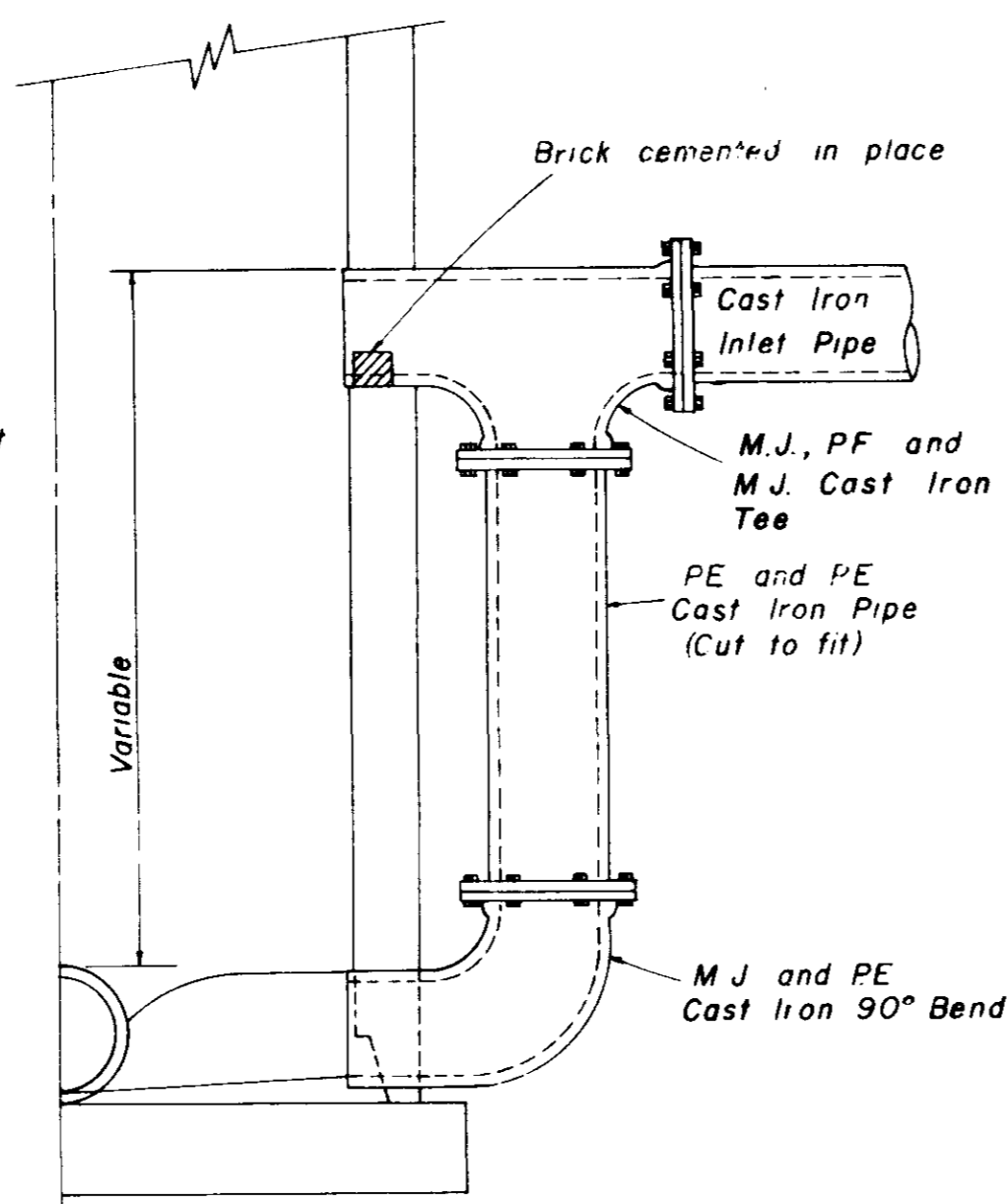
**PLAN OF MANHOLE
FLOW CHANNELS**



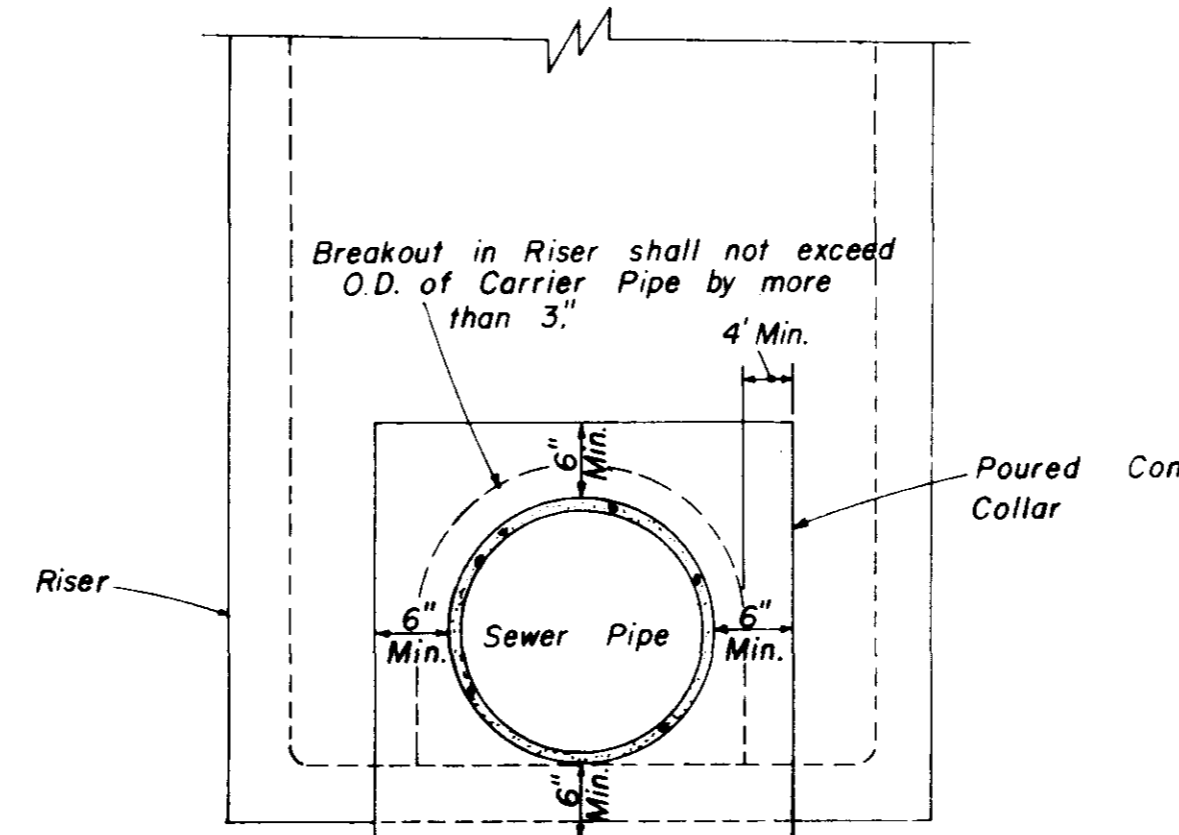
**ELEVATION SECTION
CONCRETE COLLAR DETAILS**

NOTE: All Lift Holes on each Section shall be sealed Watertight with non-shrink Grout inside and outside

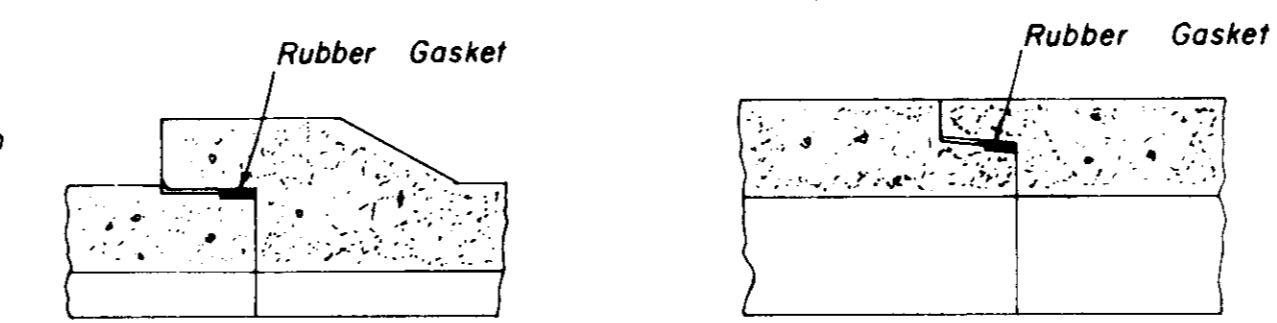
NOTE: All Manhole Joints to be Rubber Gasket



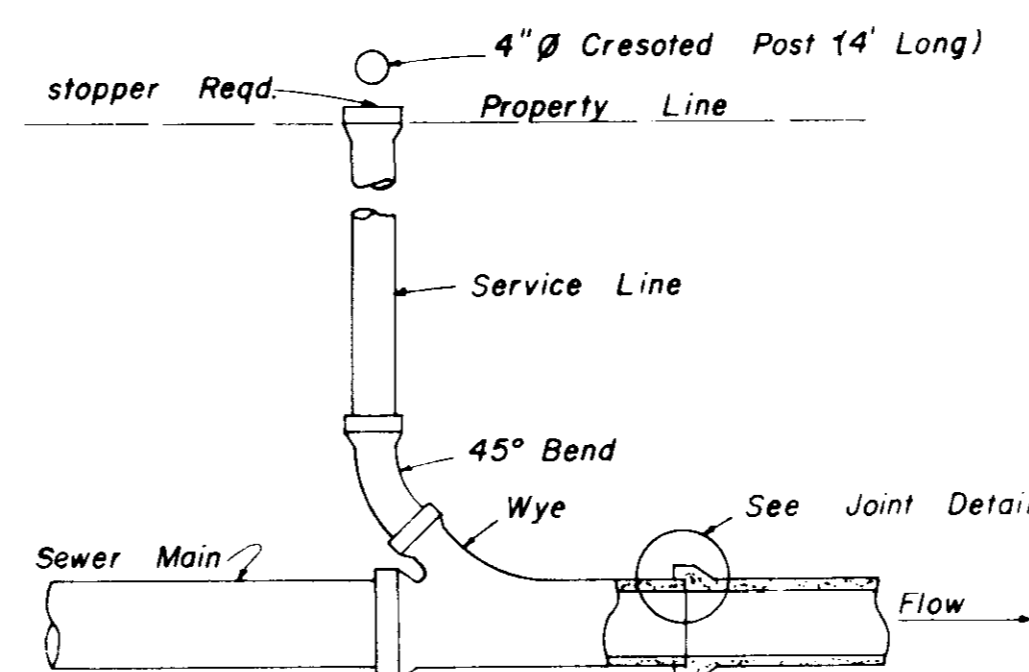
**HALF SECTION
MANHOLE WITH DROP CONNECTION**



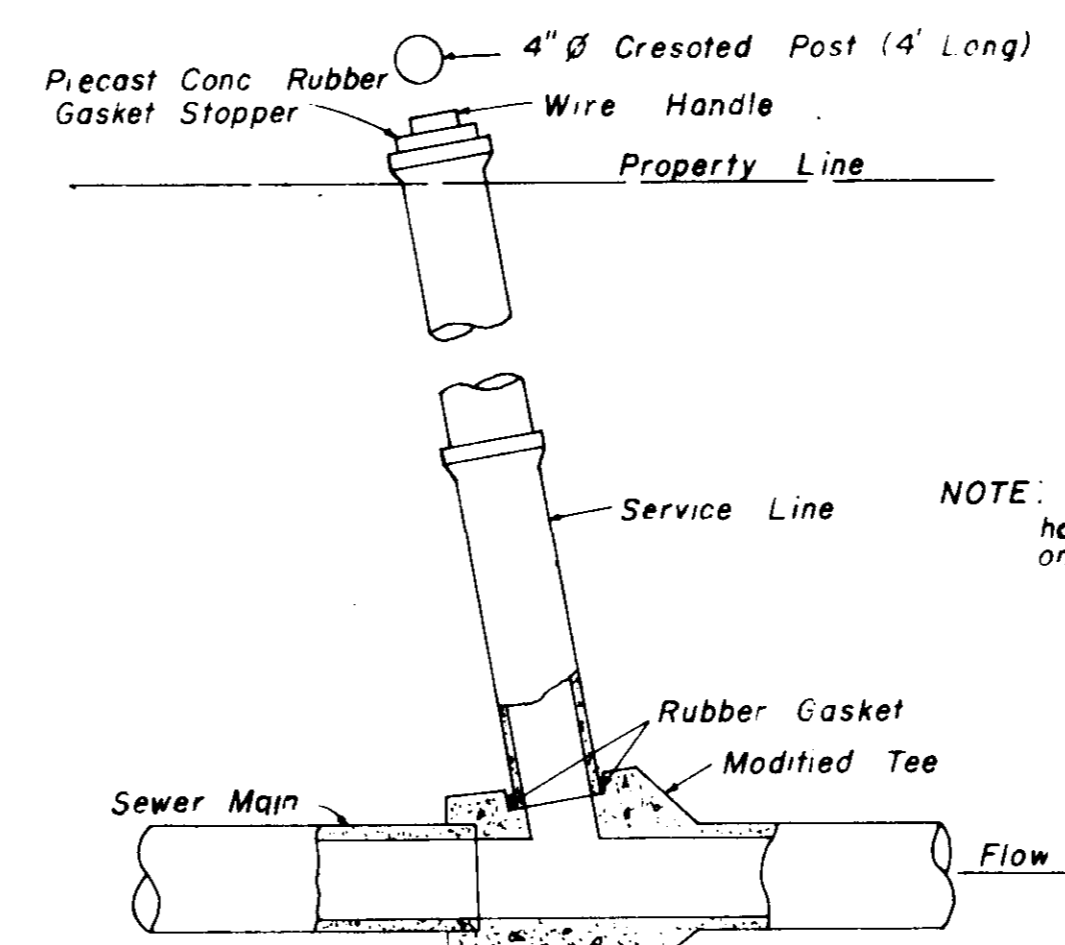
**ELEVATION
CONCRETE COLLAR AT
MANHOLE CONNECTION**



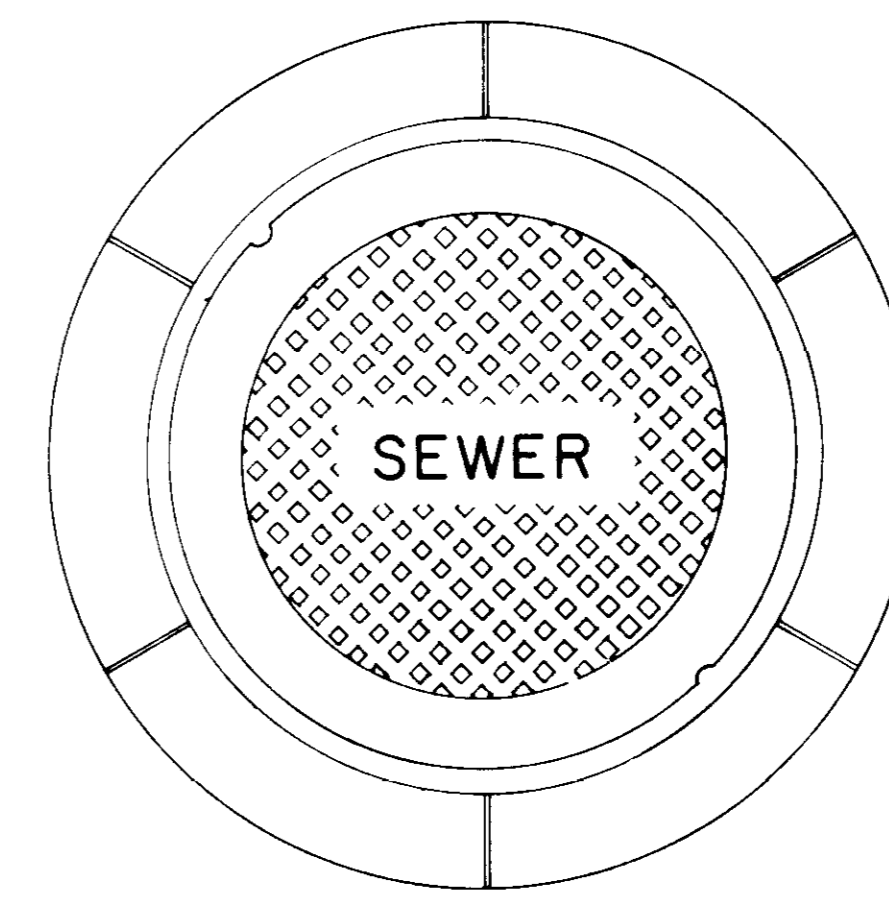
**BELL & SPIGOT TONGUE & GROOVE
JOINT DETAILS**



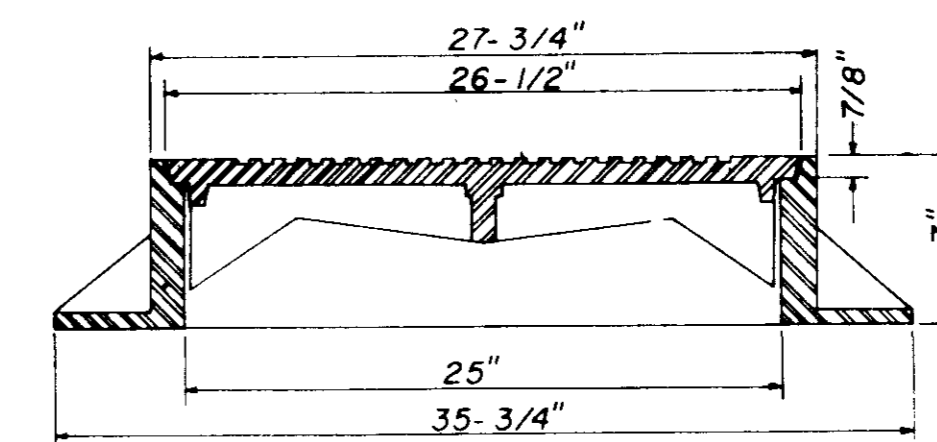
**TYPICAL SERVICE TO PROPERTY LINE
WITH WYE JOINT**



**TYPICAL SERVICE TO PROPERTY LINE
WITH MODIFIED TEE JOINT**

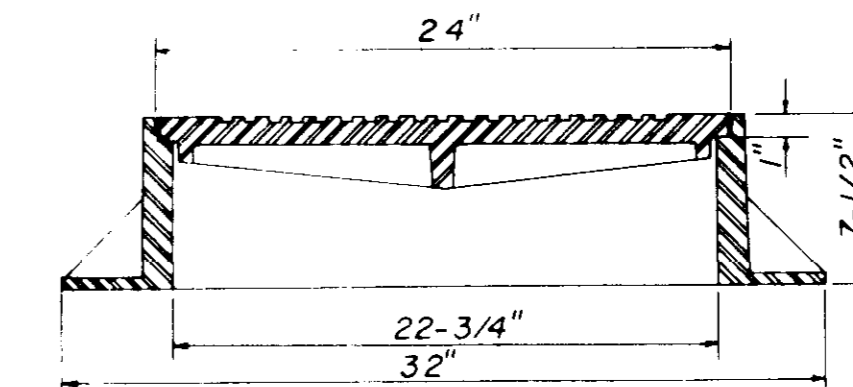


**PLAN
MANHOLE CASTING**



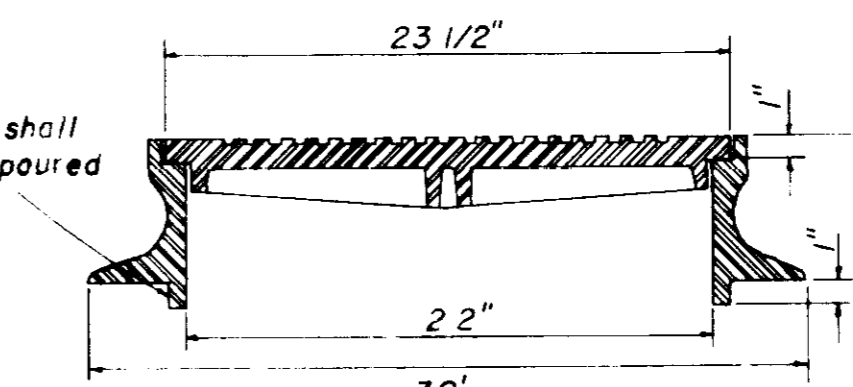
**SECTION
TYPE \"A\" MANHOLE CASTING**

NOTE: 1. Use Type \"A\" Manhole Casting in Street R.O.W.
2. Use Harper No. 2, City of Jackson Standard (420 lbs.) or Vulcan No. VM-15, City of Jackson Standard (420 lbs.)



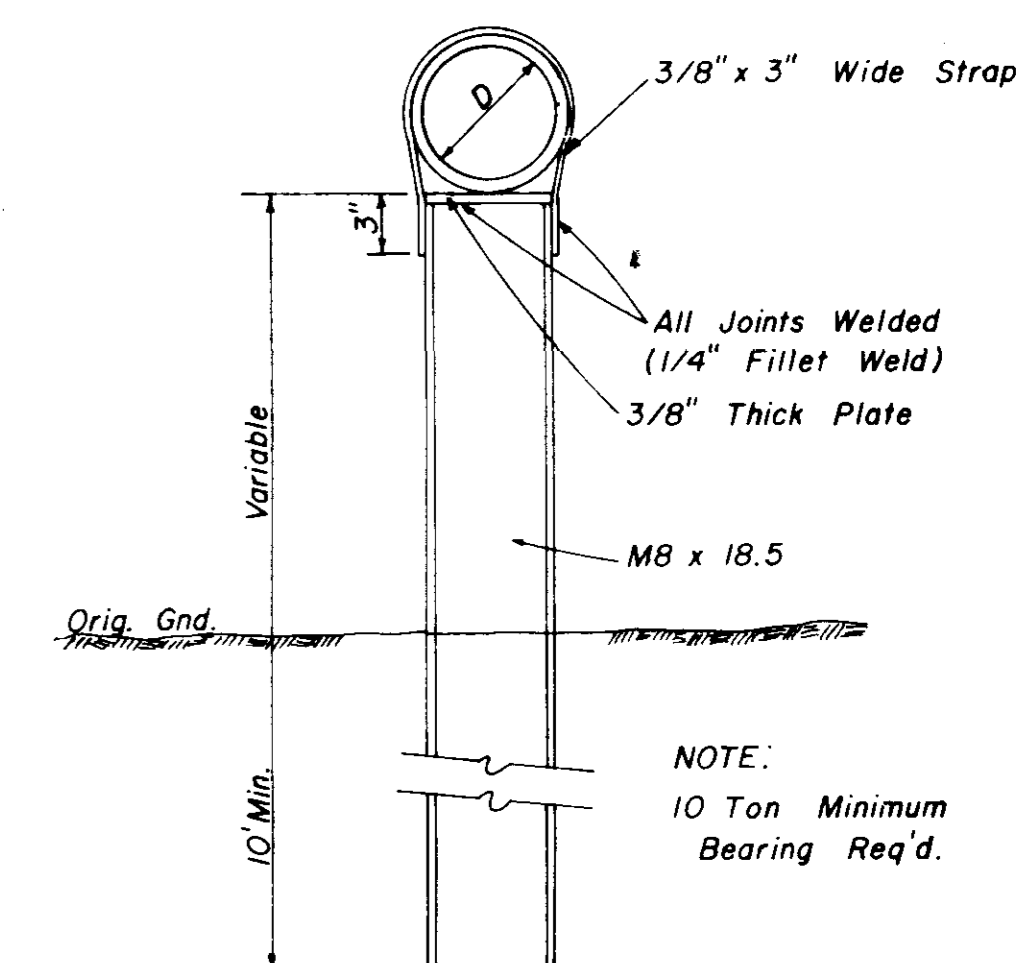
**SECTION
TYPE \"B\" MANHOLE CASTING**

NOTE: 1. Use Type \"B\" Manhole Casting for any Manhole not in a Street R.O.W.
2. Use Harper No. 1 (M.S.P.E. Standard) Light Weight (330 lbs.) or Vulcan No. VM-17 (300 lbs.) or Opelika Foundry No. C-2-1 (325 lbs.)

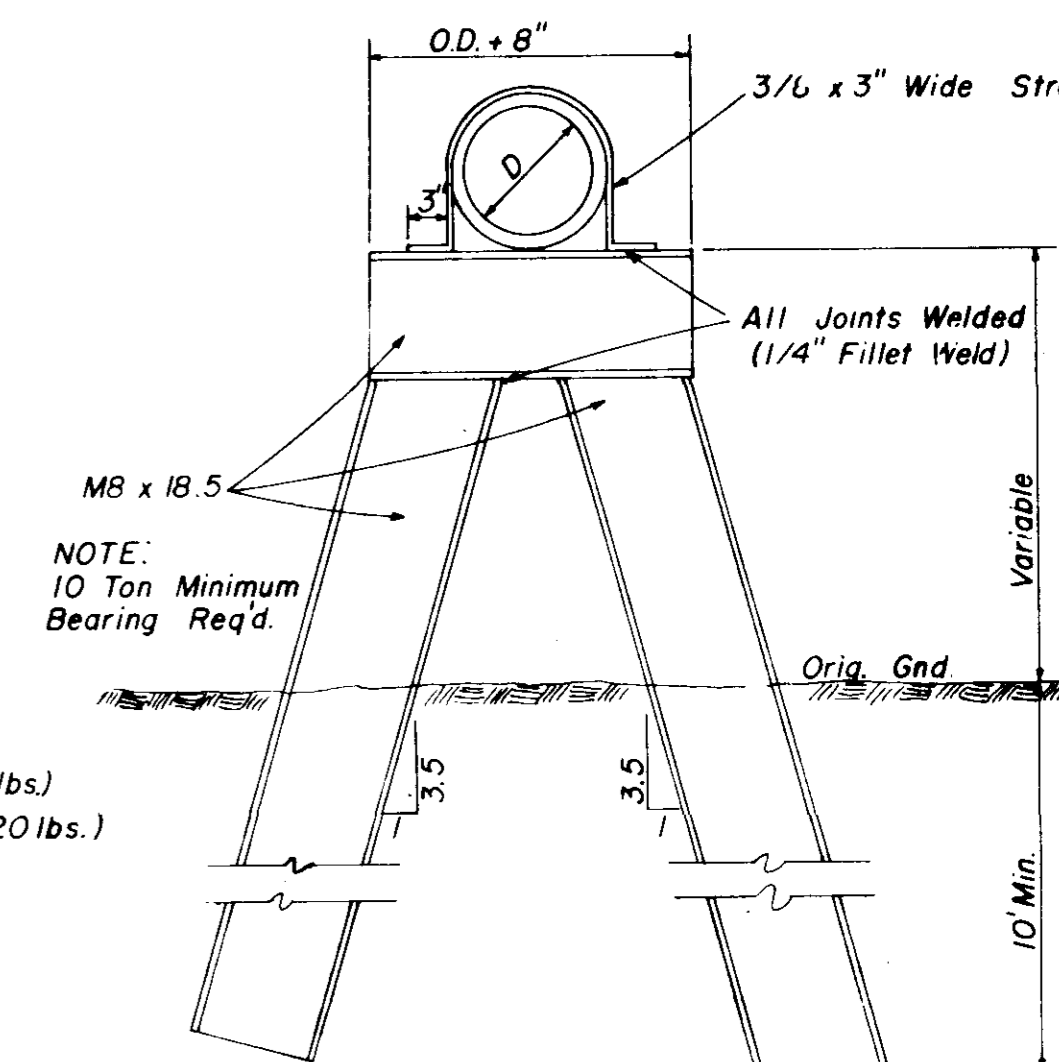


**SECTION
TYPE \"C\" MANHOLE CASTING**

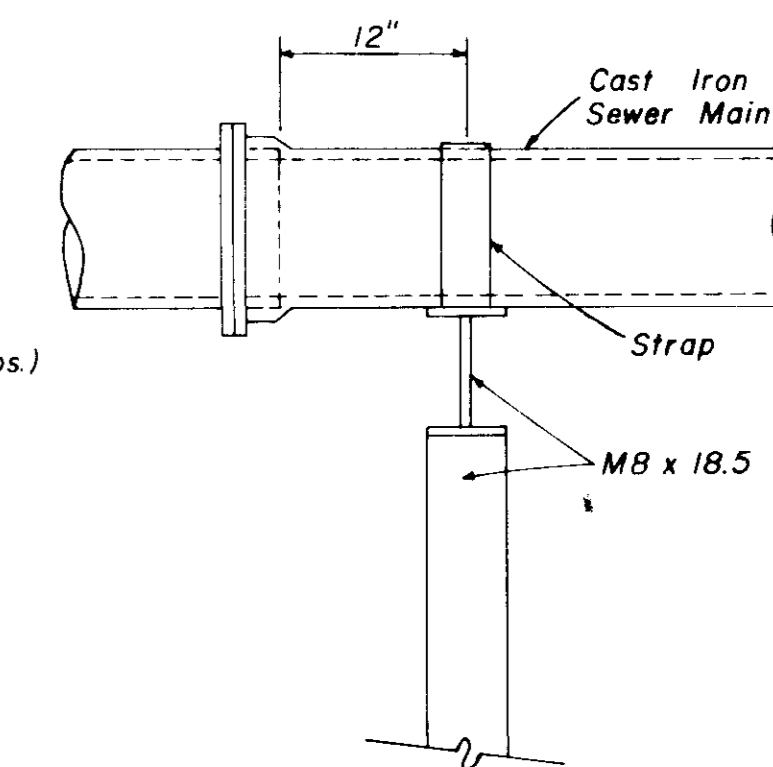
NOTE: 1. Use Type \"C\" Manhole Casting for Precast Manhole not in a Street R.O.W.
2. Use Harper No. 8 (330 lbs.) or Neenah No. R-1779 (300 lbs.) or Vulcan No VM-7 (330 lbs.)



**DETAIL
TYPE \"A\" PIER**



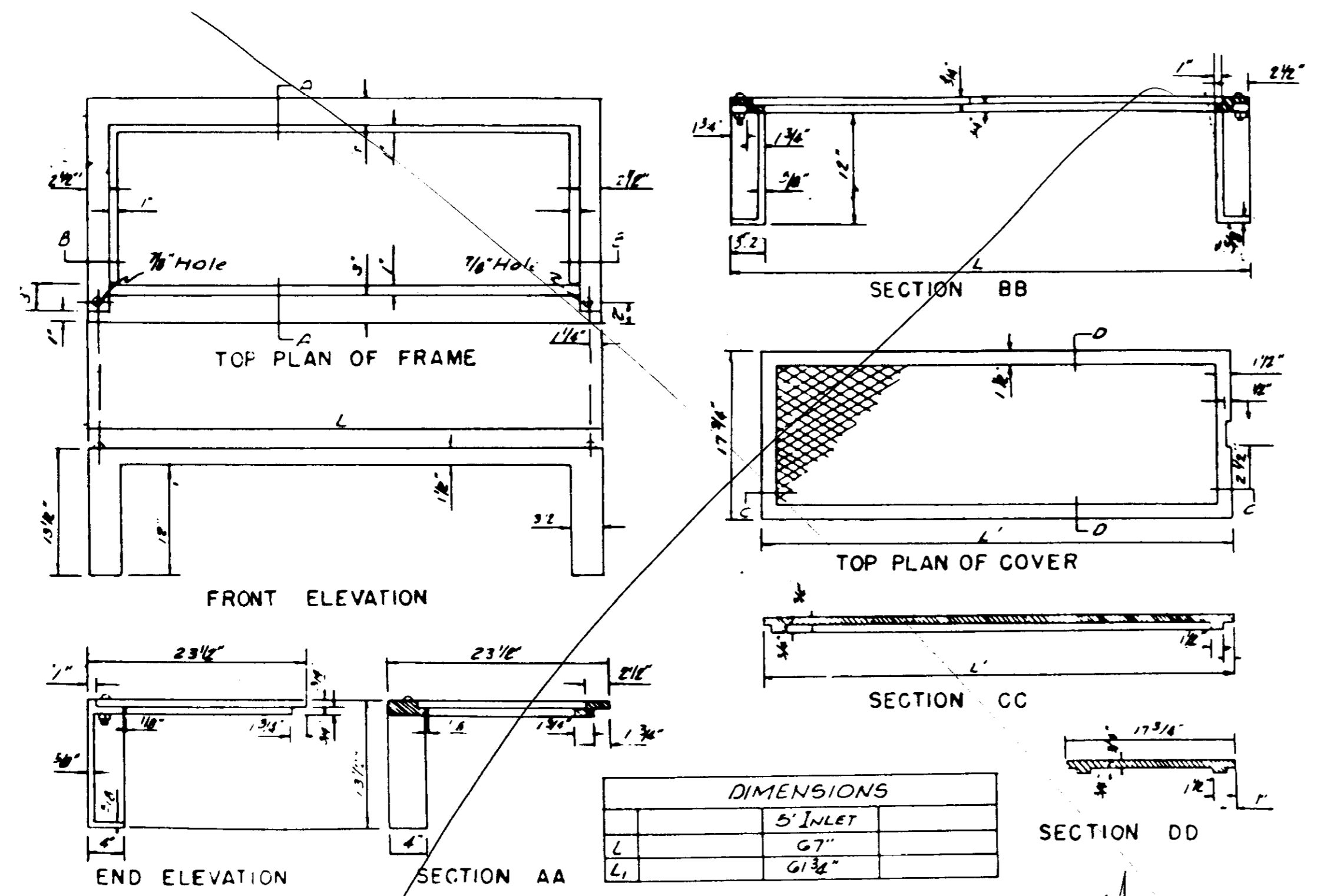
**DETAIL
TYPE \"B\" PIER**



**SIDE ELEVATION
TYPE \"B\" PIER**

**SANITARY SEWER
STANDARD DETAILS**

BROWNING INC.
Consulting Engineers Jackson, Mississippi
DRAWN BY JF DATE MAY, 1993
CHECKED BY PLB SCALE AS SHOWN 13 OF 15

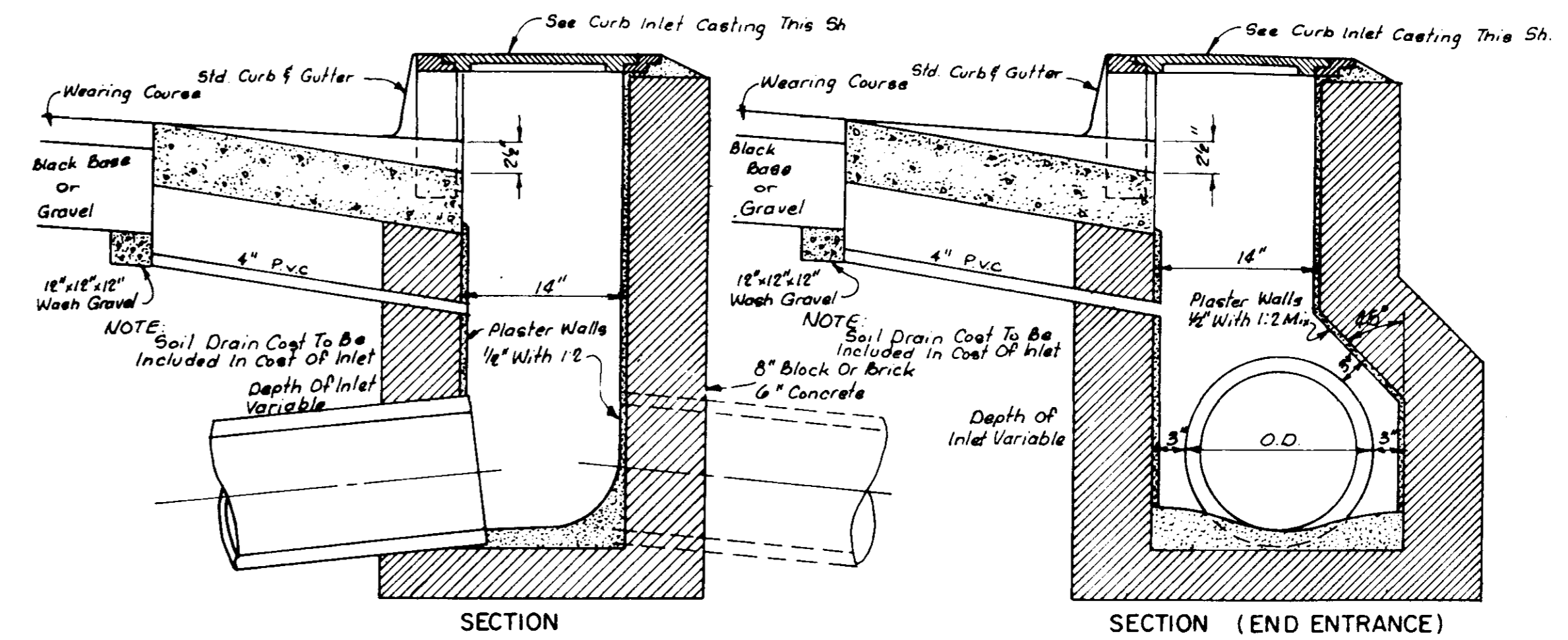


DIMENSIONS

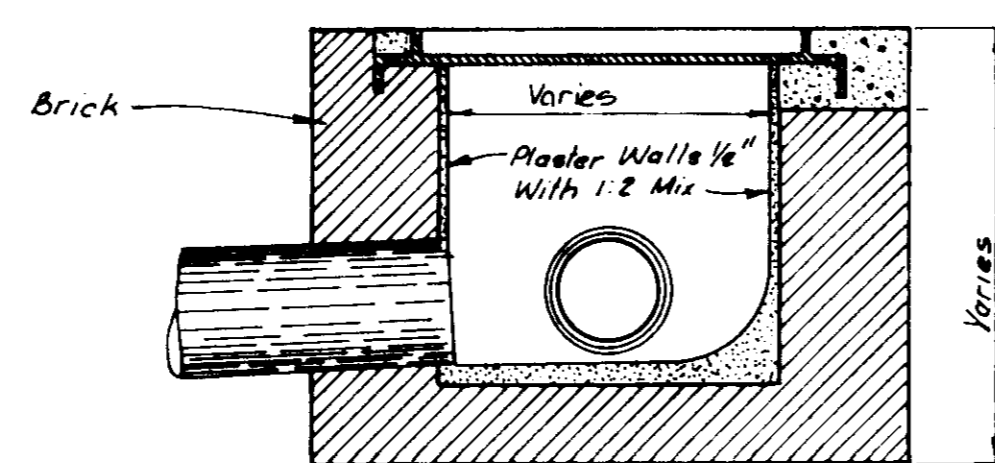
	5" INLET	
L	67"	
L ₁	61 3/8"	

STANDARD CURB INLET CASTING

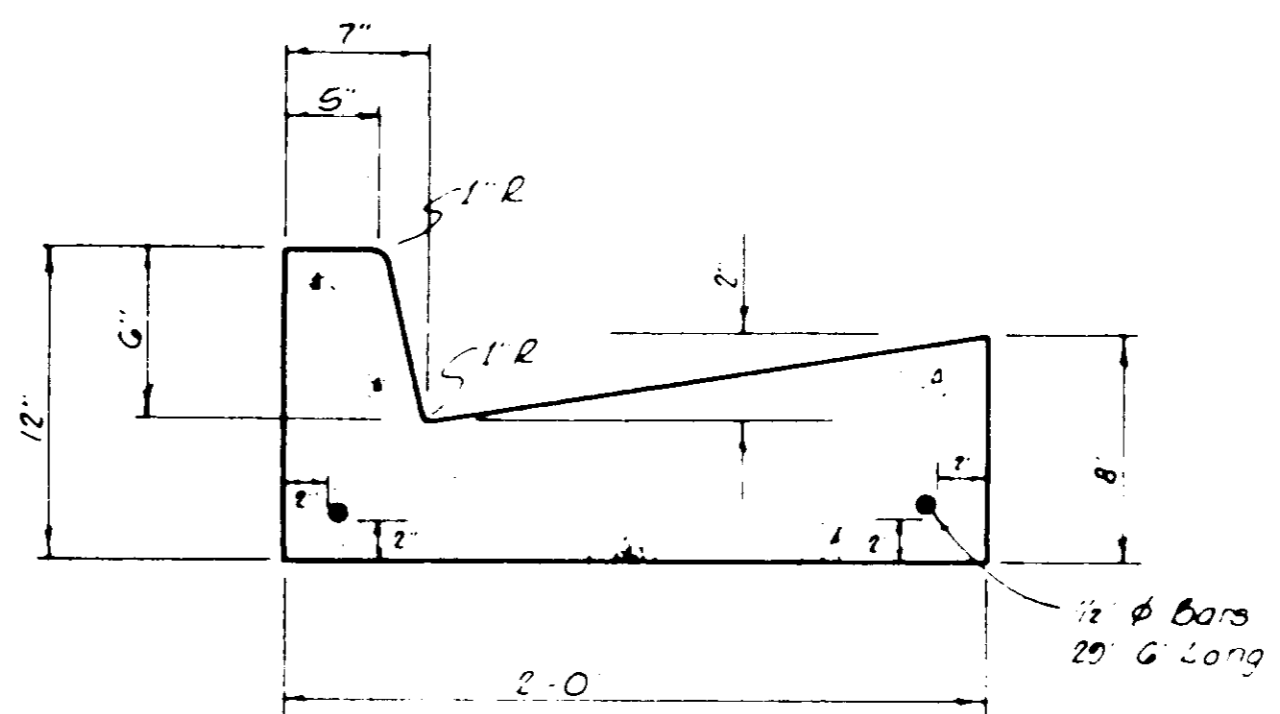
NO



STANDARD CURB INLET



DROP INLET WITH 24" NON-TRAFFIC OPEN GRATE



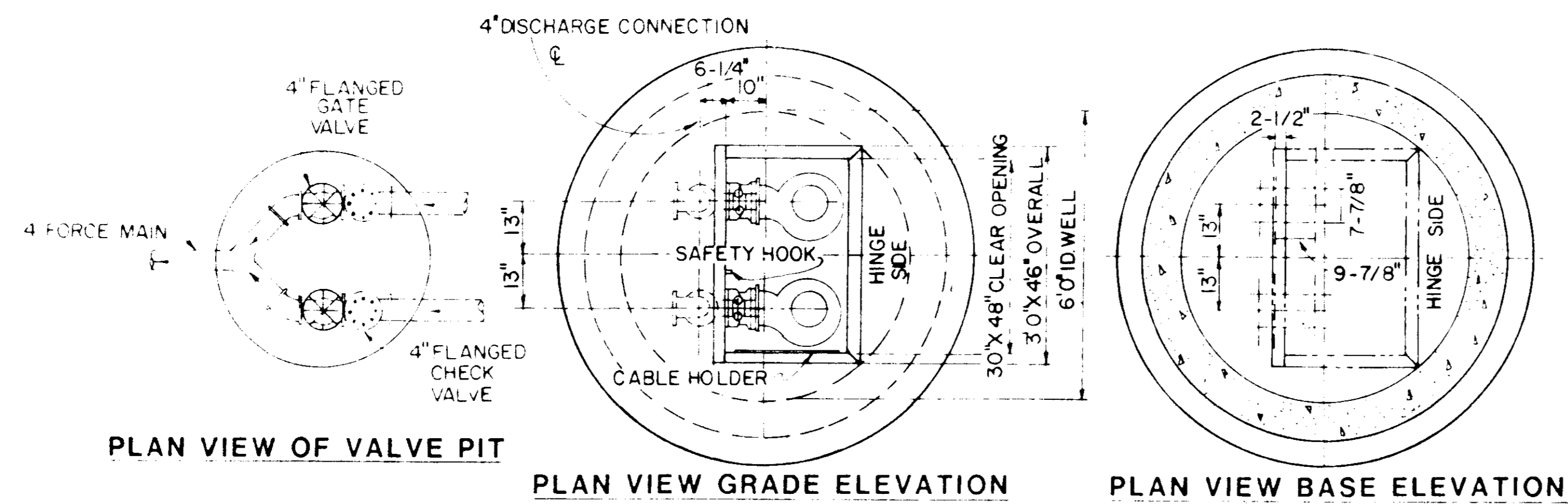
STANDARD CURB & GUTTER

NOTE: Water Service Connections Shall Be Marked In The Face Of The Curb With A "W" And The Sanitary Sewer Service Connections Shall Be Marked With An "S".

TYPICAL DRAINAGE DETAILS

BROWNING INC.
Consulting Engineers Jackson, Mississippi

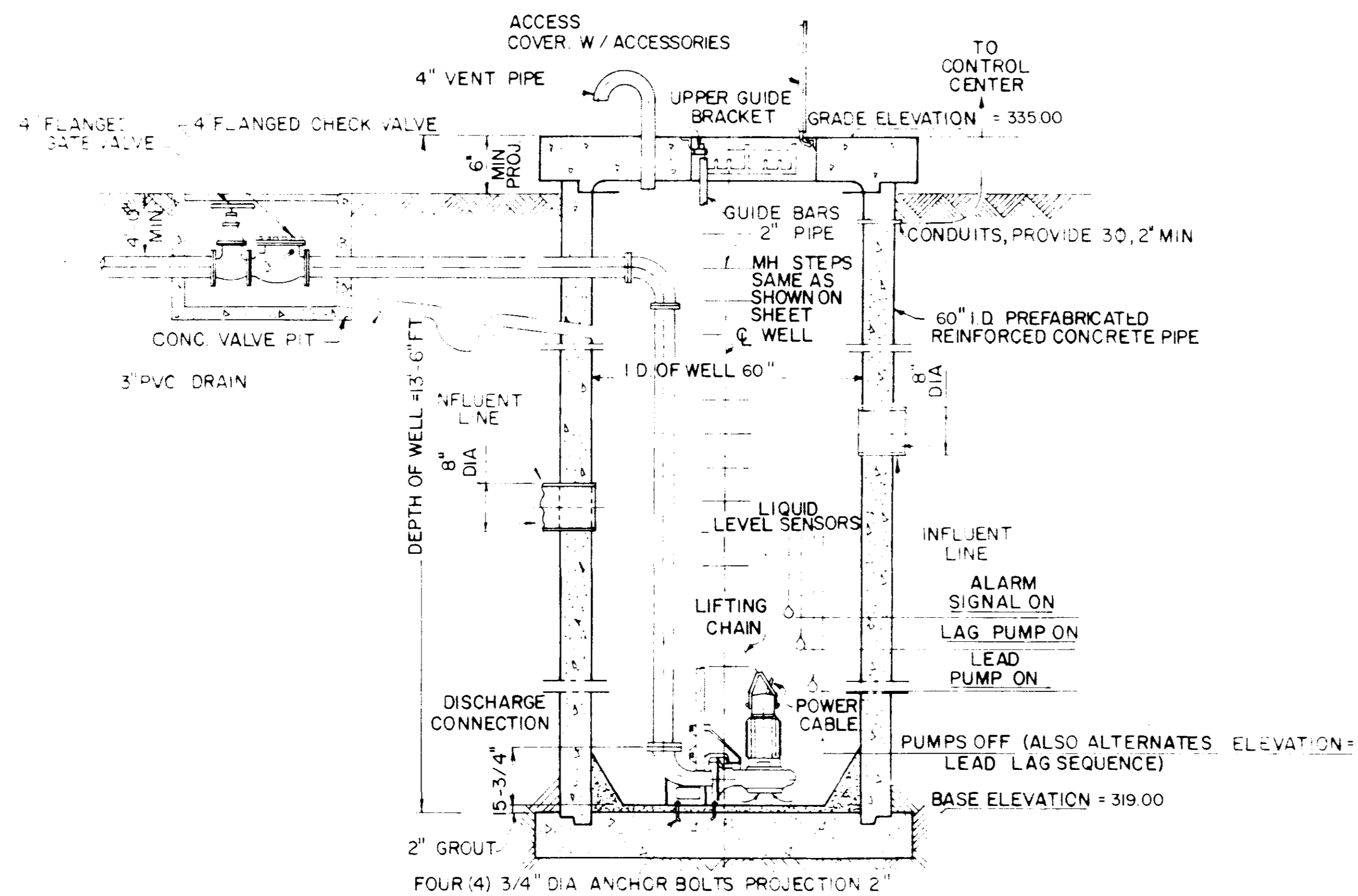
Designed By: P.L.B.	Scale: None	Sheet 14 of 15
Drawn By: J.F.	Date: MAY, 1993	



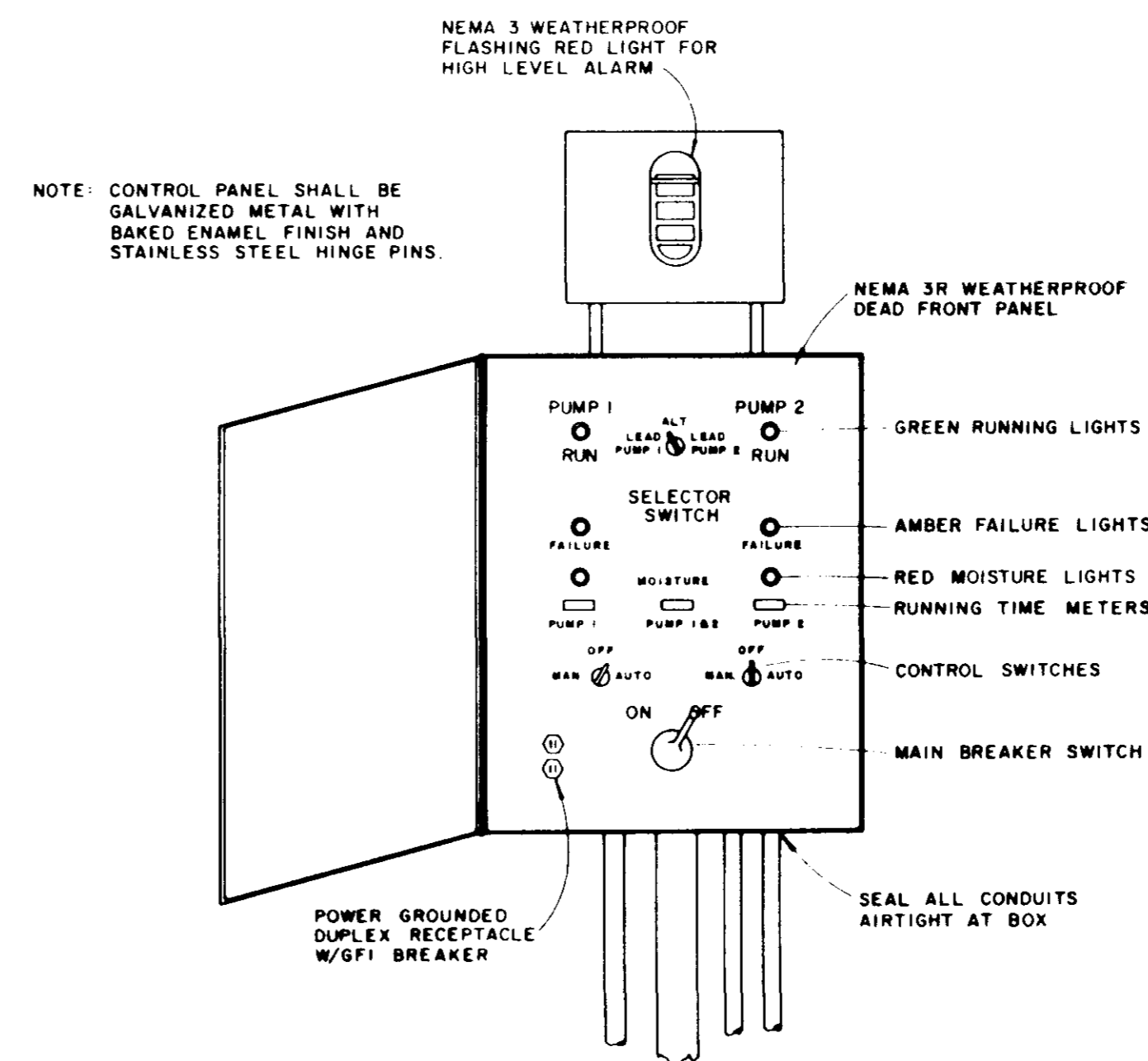
PLAN VIEW OF VALVE PIT

PLAN VIEW GRADE ELEVATION

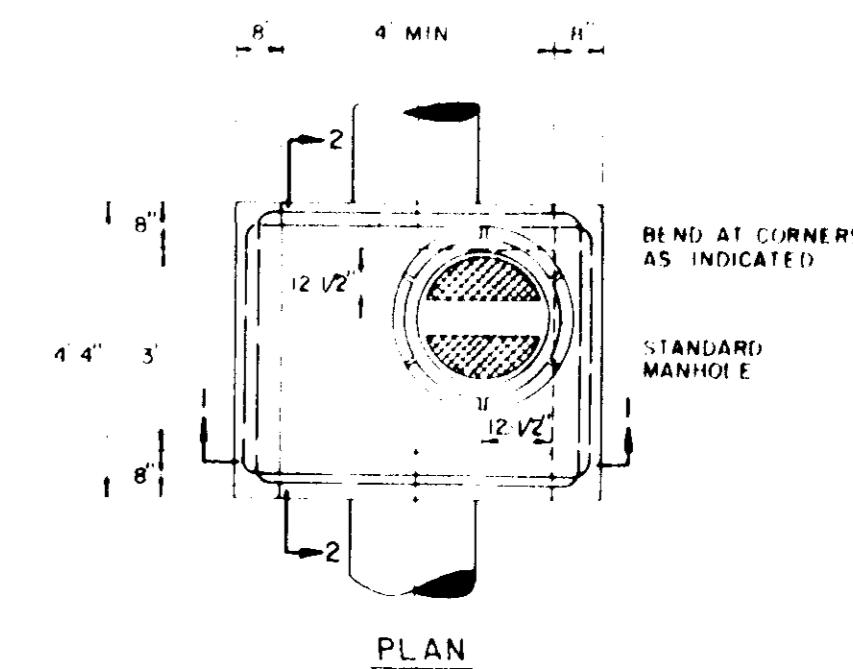
PLAN VIEW BASE ELEVATION



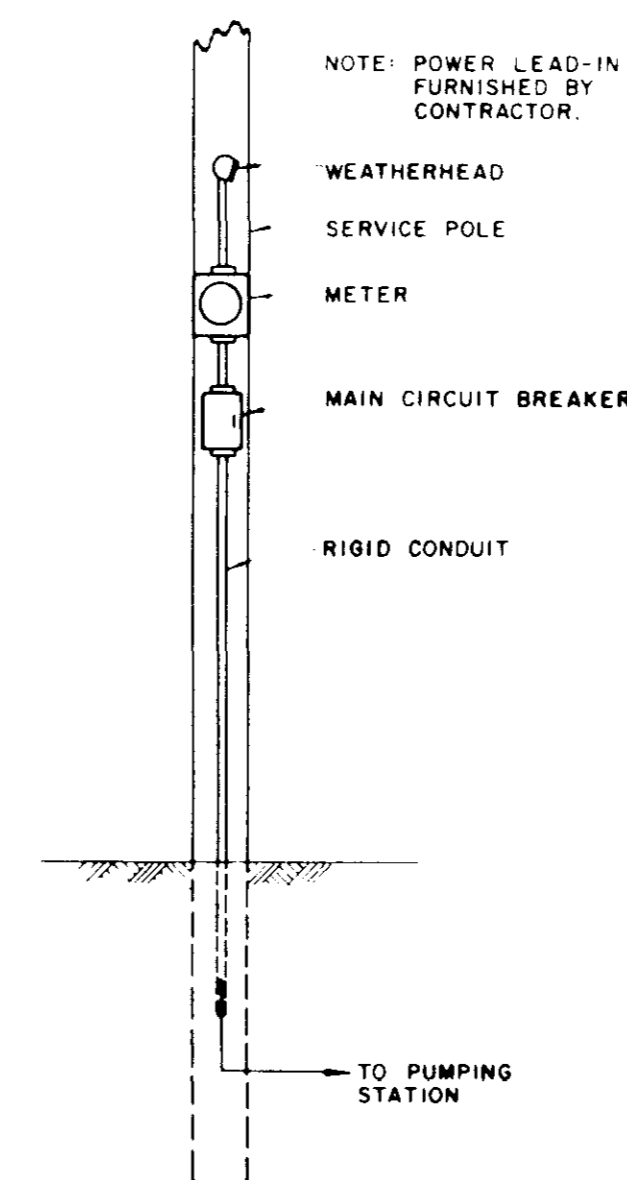
SECTION VIEW



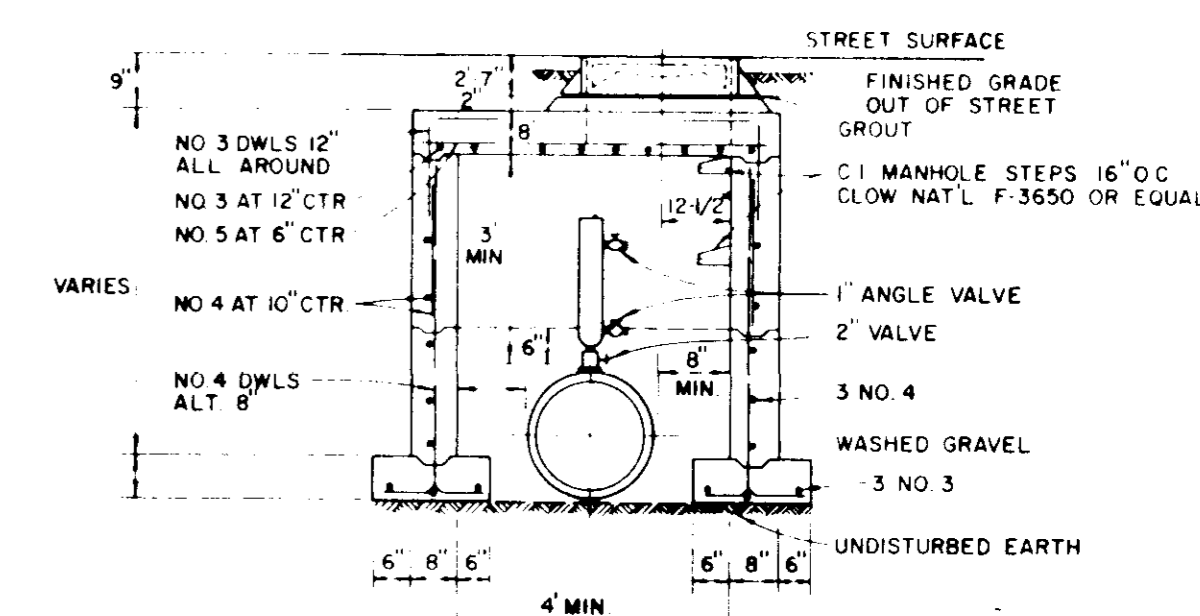
TYPICAL CONTROL PANEL
(LIGHTNING ARRESTOR & PHASE FAILURE PROTECTION REQUIRED)



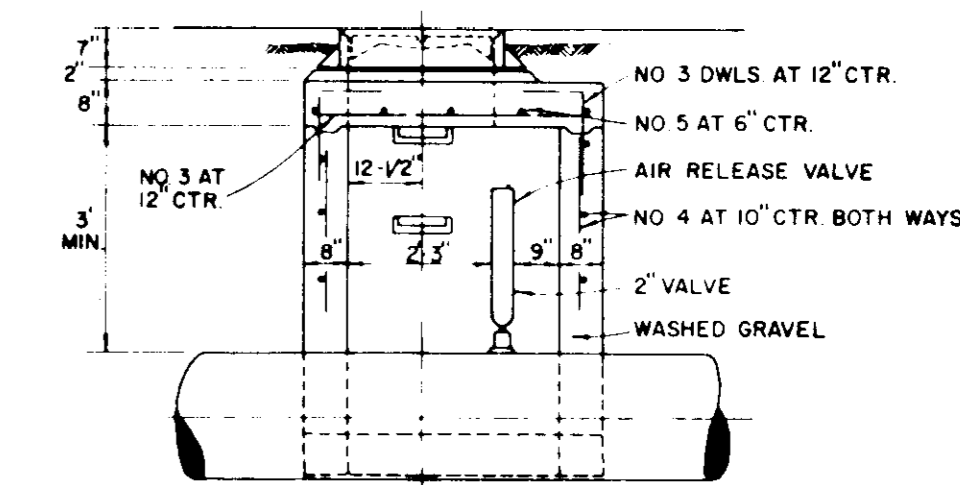
PLAN



SERVICE POLE
(BY CONTRACTOR)



SECTION 1-1



SECTION 2-2

TYPICAL FORCE MAIN AIR RELEASE VALVE ASSEMBLY

NOTE: STANDARD 4" PRECAST CONCRETE MANHOLE USED IN LIEU OF TYPICAL SECTIONS.
NOTE: USE APCO SERIES 400 SAVV MODEL 401 WITH BACKFLUSHING ATTACHMENTS OR APPROVED EQUAL.

DESIGNED P.L.B.	DATE 6/93
DRAWN J.F.	SCALE NONE

CITY OF RIDGELAND, MISSISSIPPI

BROWNING INC. — CONSULTING ENGINEERS — SURVEYORS
JACKSON, MISSISSIPPI

SEWAGE PUMP STATION AND FORCE MAIN DETAILS

PROJECT NO. 193 - 00	
FILE NO.	SHEET NO. 15 OF 15