

CONTRACT DRAWINGS  
FOR

SHADOWWOOD SUBDIVISION

PART TWO

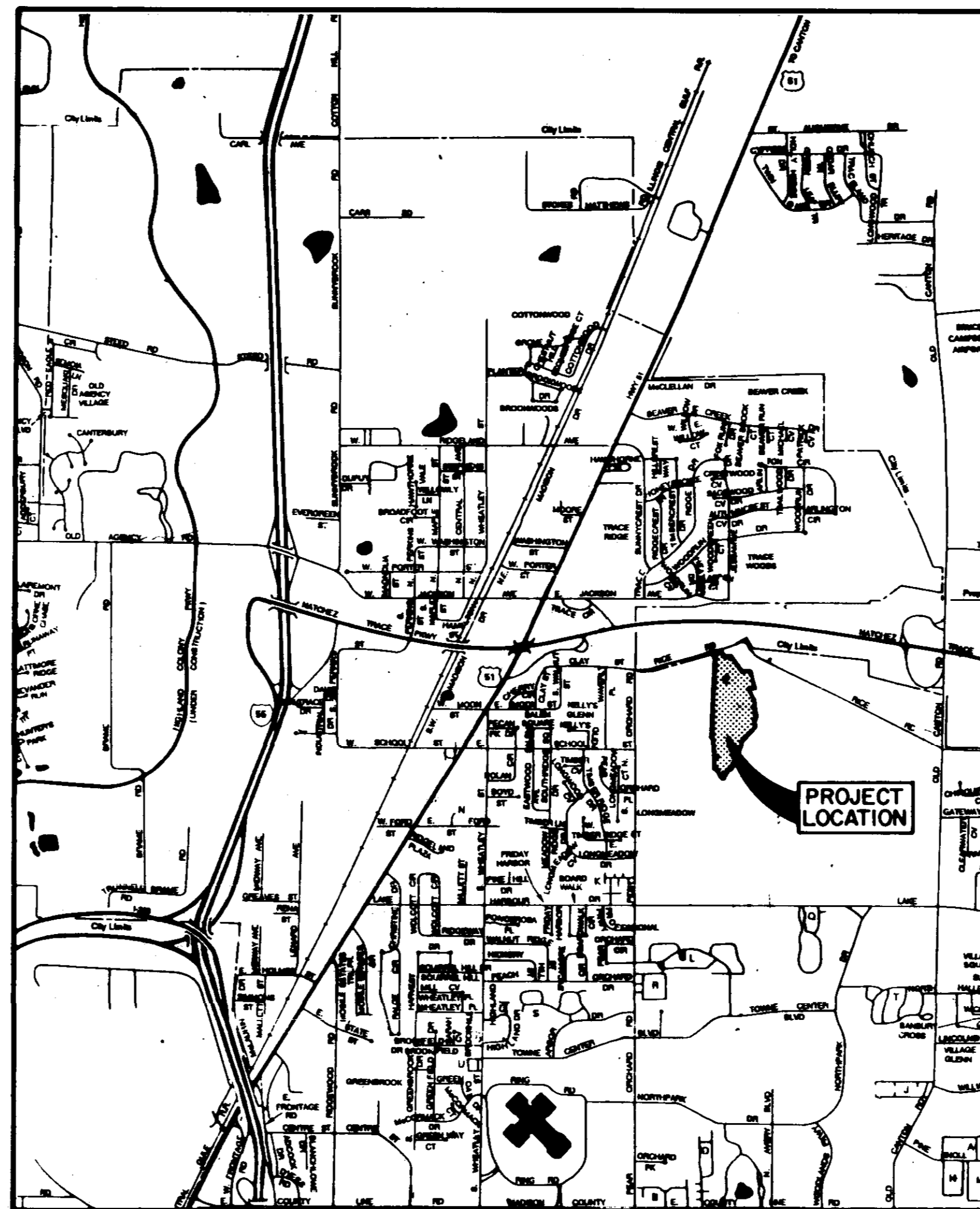
STREETS, DRAINAGE, SANITARY SEWER & WATER SYSTEM

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WATER DISTRIBUTION SYSTEM

Item	Estimated Quantity	Unit
Connection to Existing Water Main	2	EA
8" Water Main, C-900, Class 150	5,465	LF
6" Water Main, C-900, Class 150	2,165	LF
8"x8"x8" Tee	5	EA
8"x8"x6" Tee	8	EA
8"x8" Cross	2	EA
8"x6" Reducer	2	EA
6"x6"x6" Tee	2	EA
8" Gate Valve with Box	8	EA
6" Gate Valve with Box	6	EA
6" Fire Hydrant with Gate Valve	9	EA
3/4" Service Line	1,300	LF
Service Assembly	82	EA
Service Marker	82	EA



VICINITY MAP

SANITARY SEWER SYSTEM

Item	Estimated Quantity	Unit
Connection to Existing Main	1	EA
8" Gravity Sanitary Sewer (0'-8')	4,120	LF
8" Gravity Sanitary Sewer (8'-10')	186	LF
8" Gravity Sanitary Sewer (10'-12')	300	LF
8" Gravity Sanitary Sewer (12'-14')	112	LF
8" Gravity Sanitary Sewer (14'-16')	75	LF
8" Gravity Sanitary Sewer (16'-18')	70	LF
8" Gravity Sanitary Sewer (18'-20')	72	LF
48" Standard Manhole (0'-8')	16	EA
48" Standard Manhole (8'-10')	1	EA
48" Standard Manhole (10'-12')	1	EA
48" Standard Manhole (12'-14')	1	EA
48" Standard Manhole (14'-16')	0	EA
48" Standard Manhole (16'-18')	1	EA
48" Standard Manhole (18'-20')	1	EA
Undercut & Select Backfill	300	CY
6" Sanitary Sewer Service	1,050	LF
6" Service Tee	61	EA
Service Marker	82	EA

STREETS AND DRAINAGE

Item	Estimated Quantity	Unit
<b>Phase I</b>		
Clearing and Grubbing	7.0	AC
Excavation - Common	9,500	CY
Excavation - (On-Site) Street Undercut and Backfill	2,500	CY
Embankment	1,500	CY
6" Line Treated Sub-Base (Sub-Base Preparation Included)	17,000	SY
Curb Inlet	17	EA
15" Reinforced Concrete Pipe	160	LF
18" Reinforced Concrete Pipe	442	LF
21" Reinforced Concrete Pipe	1,110	LF
24" Reinforced Concrete Pipe	550	LF
30" Reinforced Concrete Pipe	96	LF
30" Flared End Section	1	EA
<b>Phase II</b>		
3" Asphaltic Base Course	17,000	SY
1 1/2" Asphaltic Surface Course	17,000	SY
Concrete Curb and Gutter	11,000	LF

**PWP-1920**

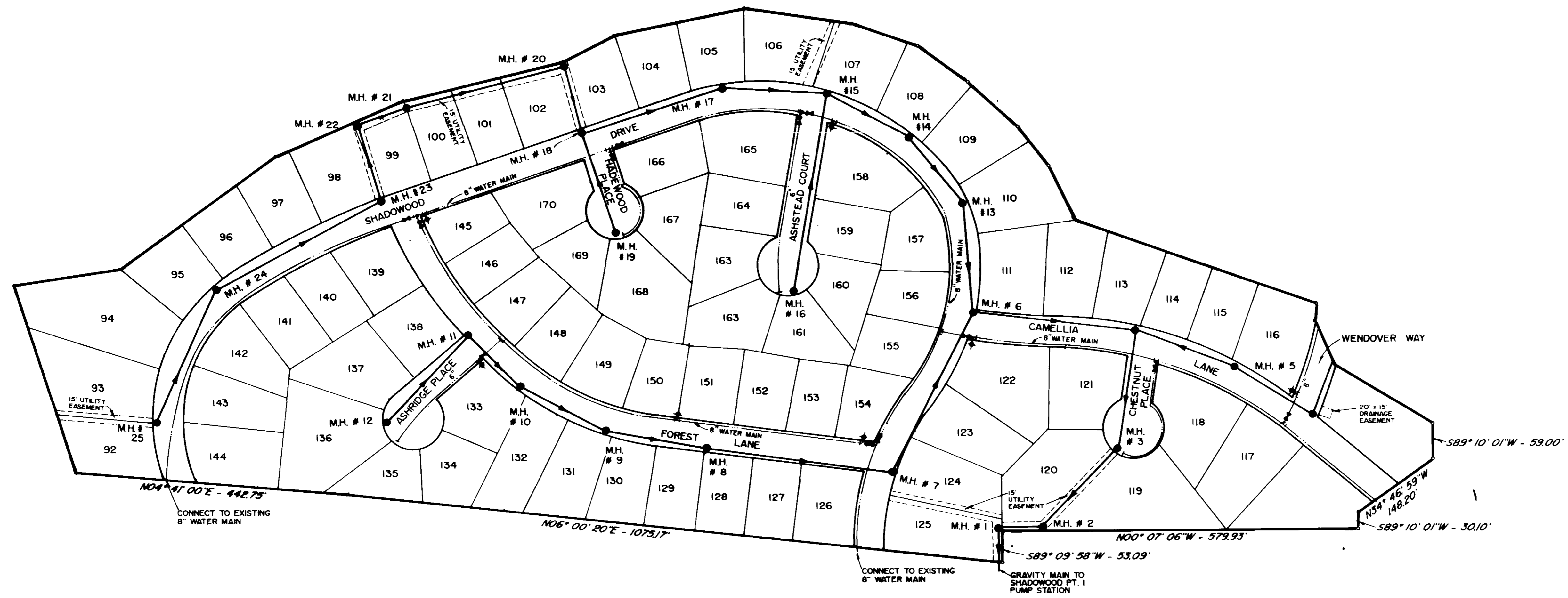
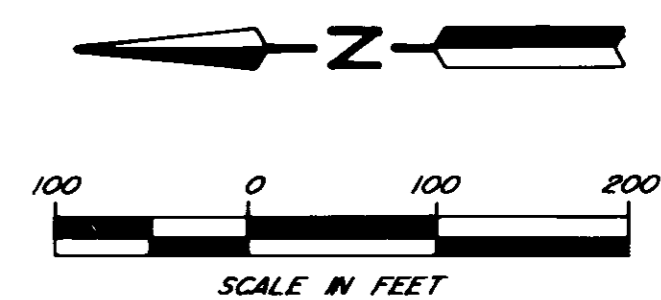
GRASS PLANTING

Item	Estimated Quantity	Unit
Seeding	2.5	AC

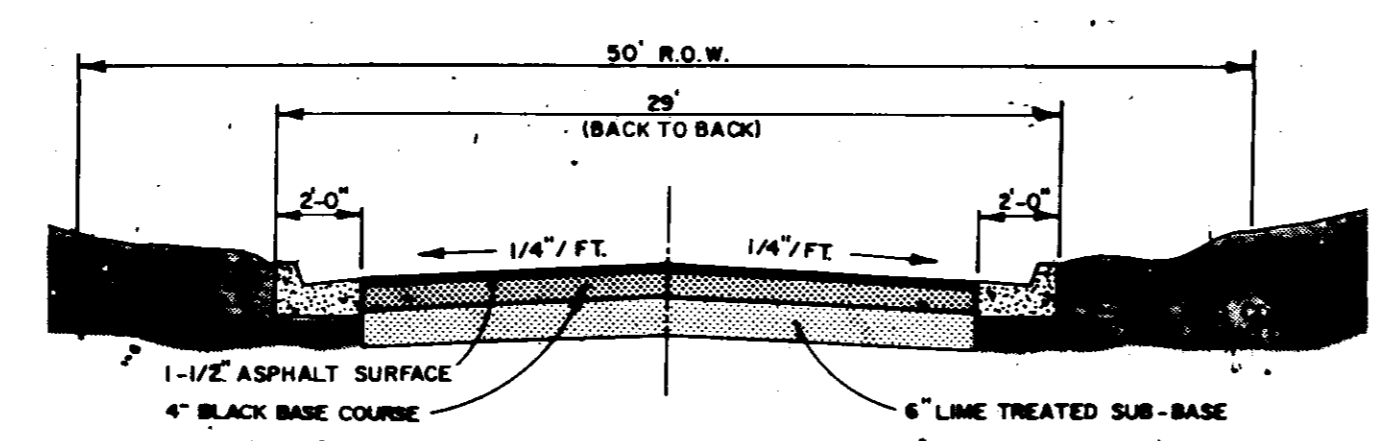
I hereby certify that a final field survey was conducted and that these "as built" plans resulted from said survey and are true and correct to the best of my knowledge. I further certify that each improvement has been constructed in accordance with City specifications.

*Philip L. Browning* 12/29/94  
Philip L. Browning, P. E. No. 5952

AS BUILTS  
DECEMBER 1994

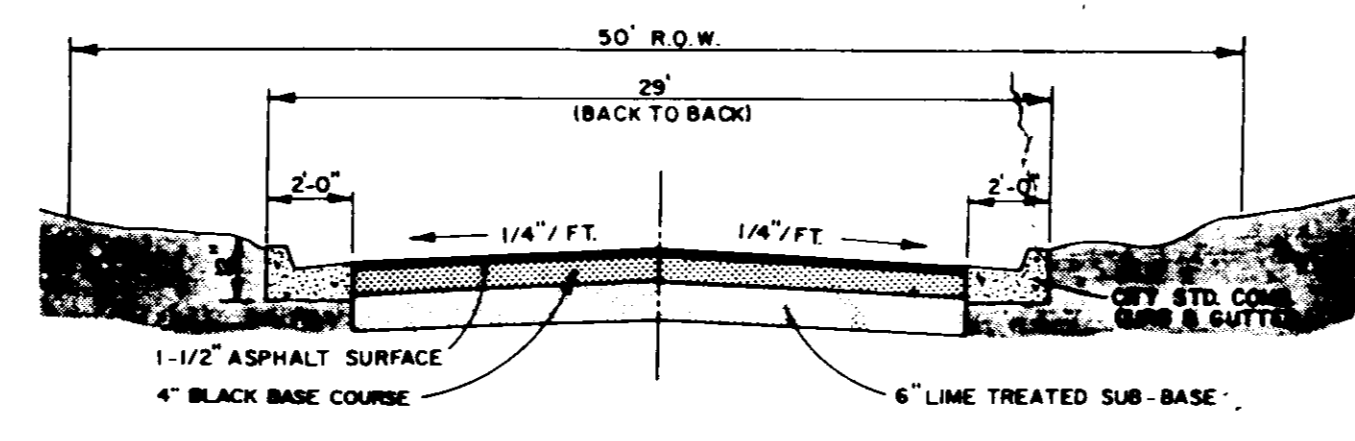
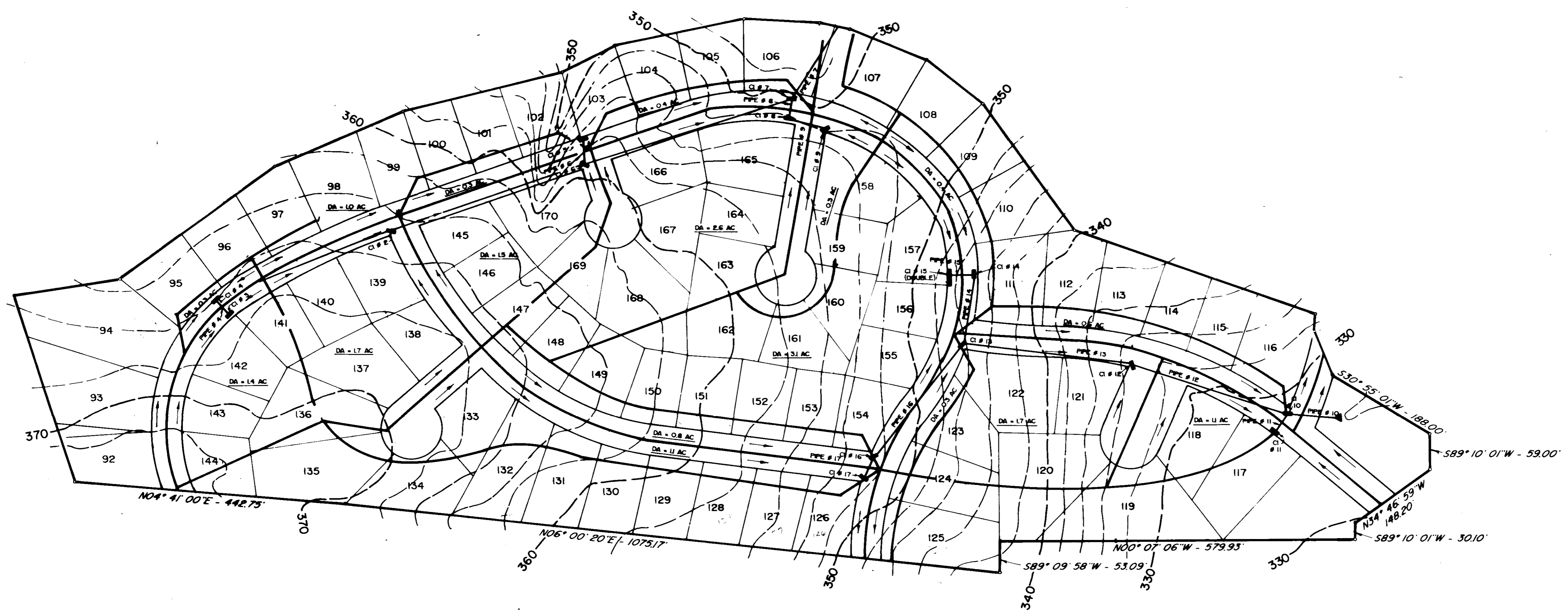
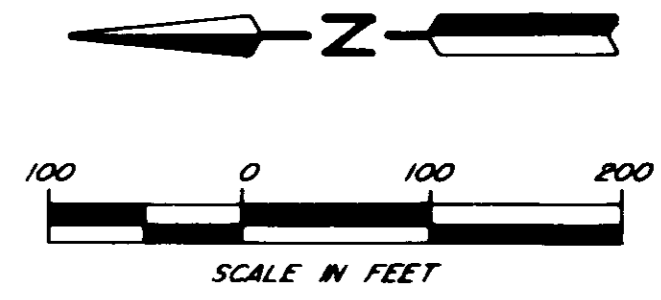


NOTE : ALL SANITARY SEWER MAINS ARE 8" IN DIAMETER



TYPICAL STREET SECTION

<b>SHADOWWOOD SUBDIVISION PART 2</b>		
<b>GENERAL LAYOUT</b>		
<b>BROWNING INC.</b> Consulting Engineers Jackson, Mississippi		
Designed By : P.L.B.	Scale : 1" = 100'	SHEET 2 OF 13
Drawn By : J.F.	Date : MAY, 1994	



TYPICAL STREET SECTION

<b>SHADOWOOD SUBDIVISION PART 2</b>		
<b>DRAINAGE LAYOUT</b>		
<b>BROWNING INC.</b> Consulting Engineers Jackson, Mississippi		
Designed By : P.L.B.	Scale : 1" = 100'	SHEET 3 OF 13
Drawn By : J.F.	Date : MAY, 1994	

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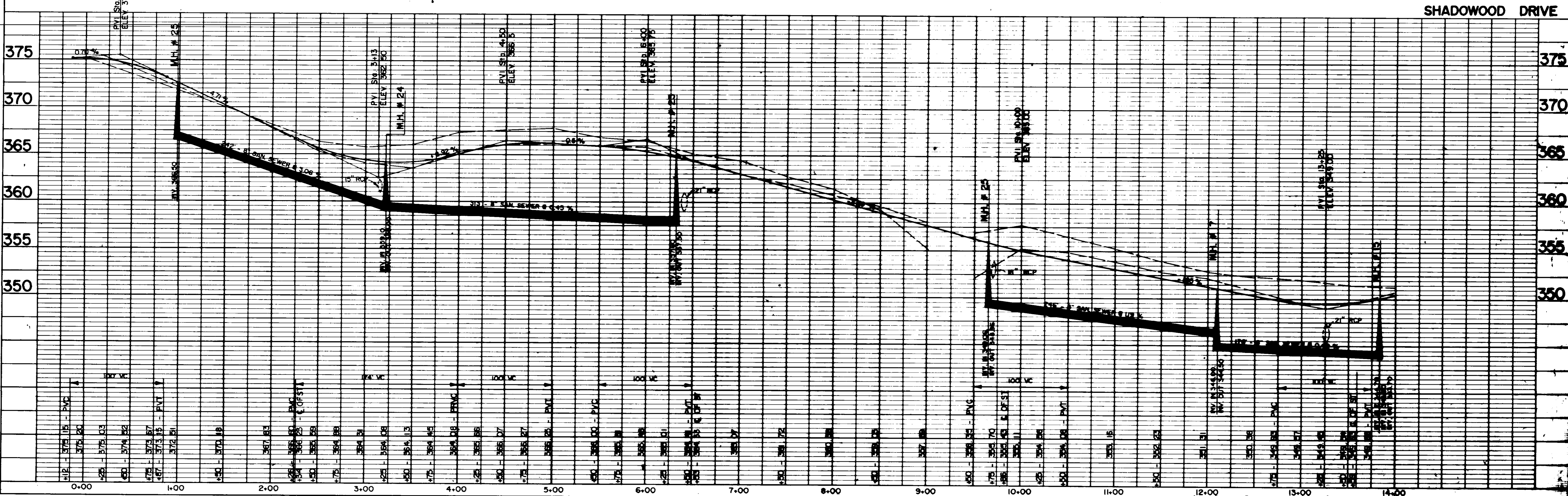
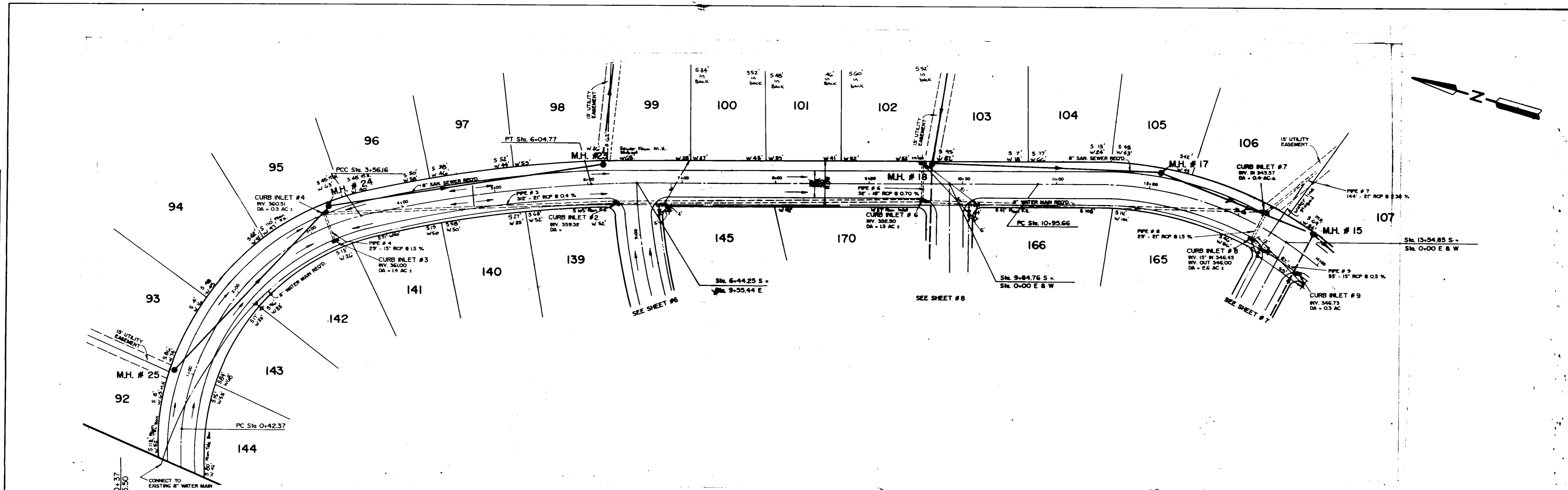
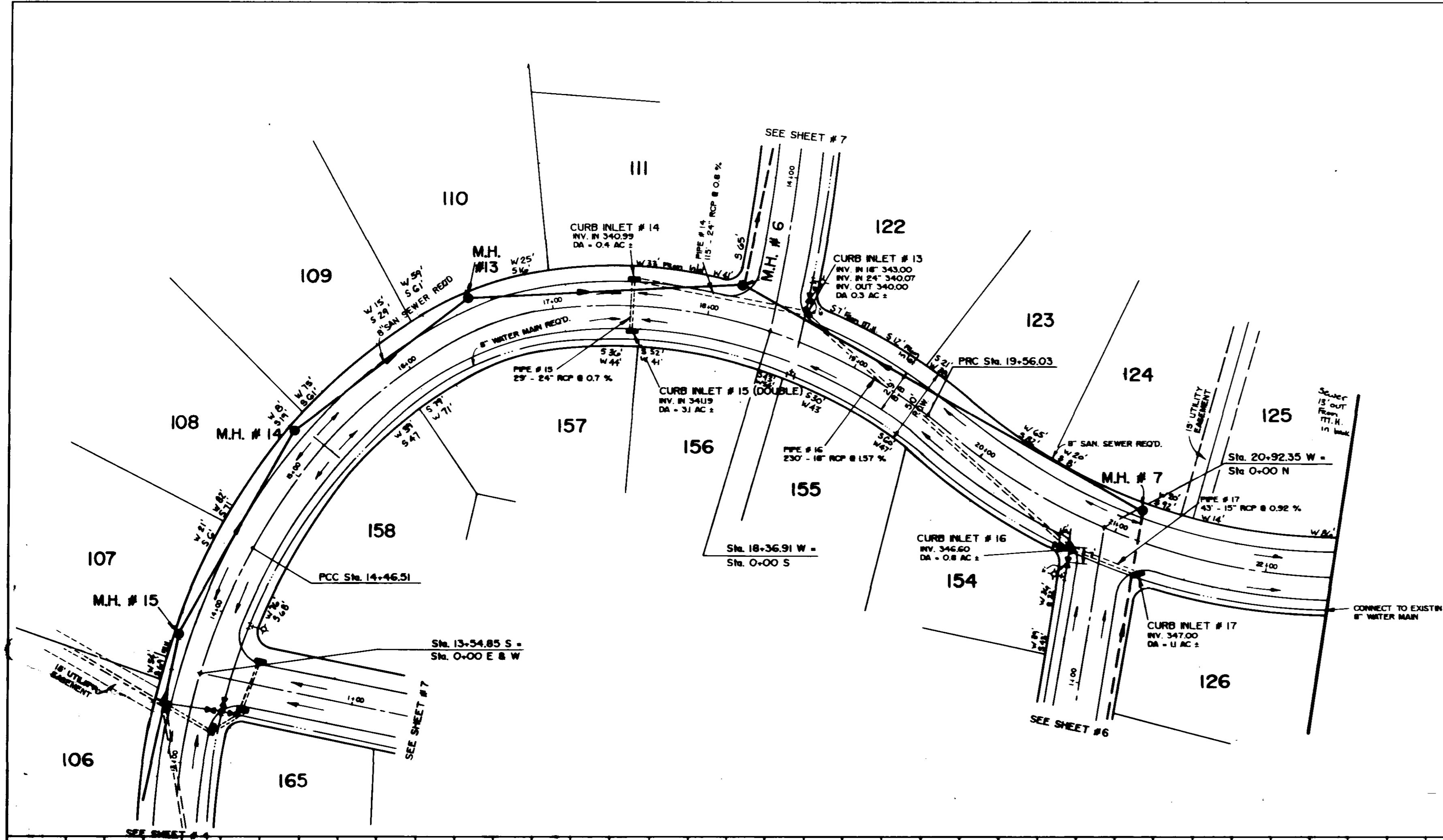


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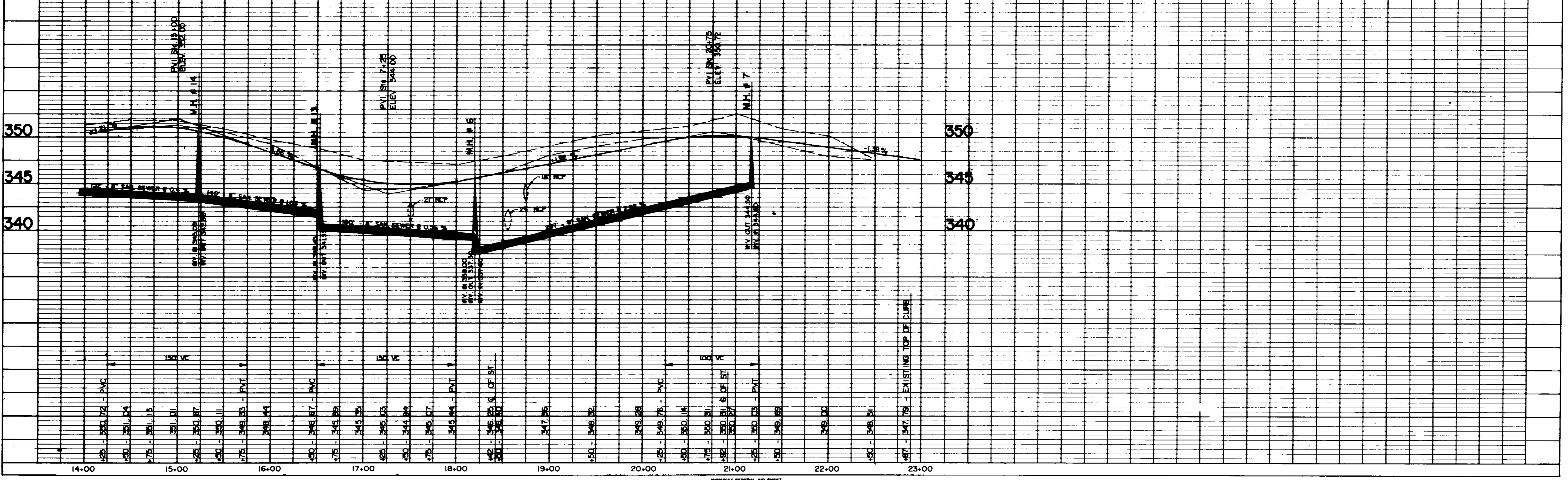


PLATE I-SINGLE PLAN AND PROFILE-FULL LINE  
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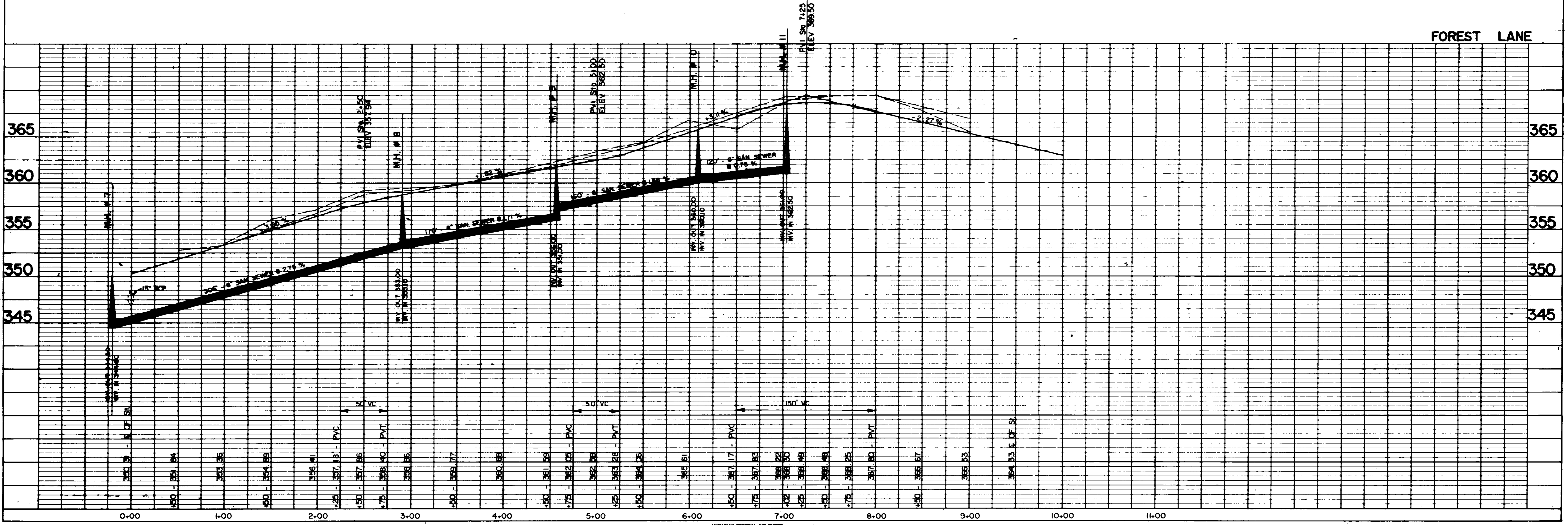
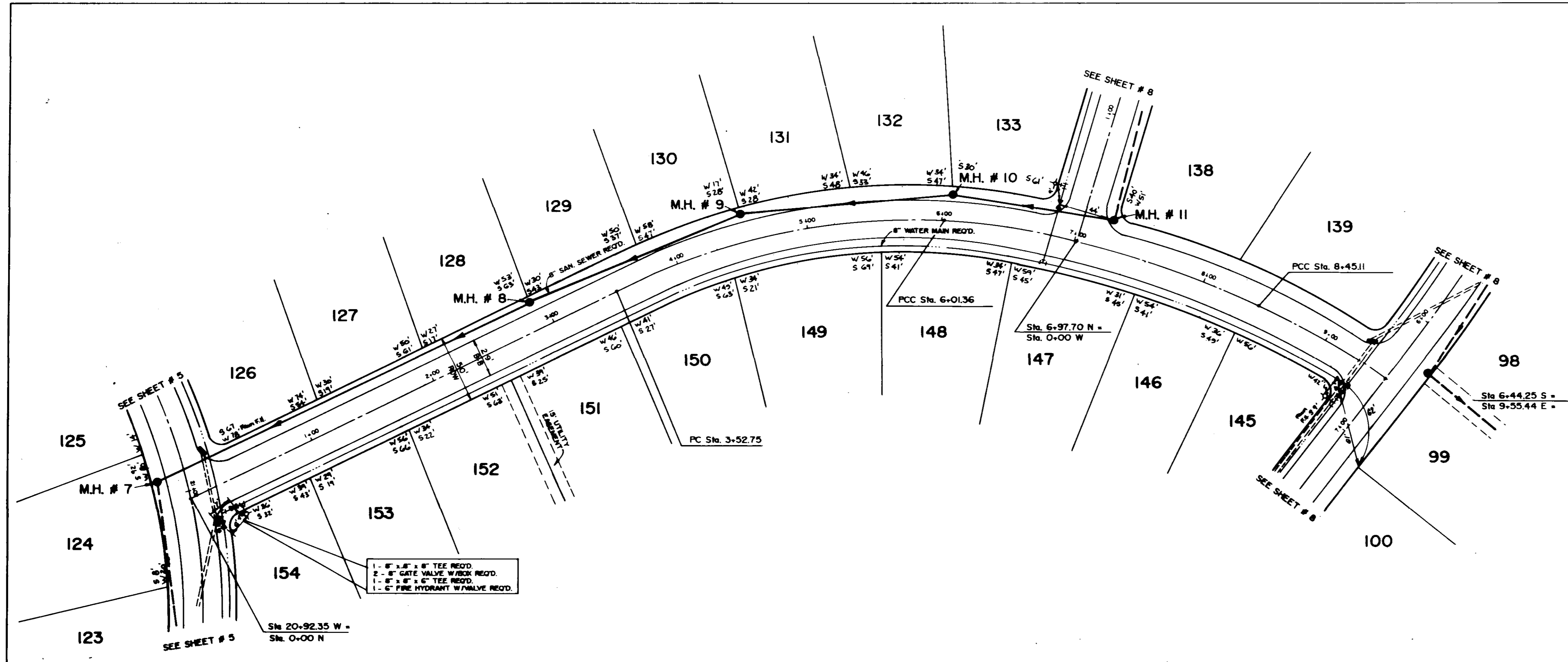
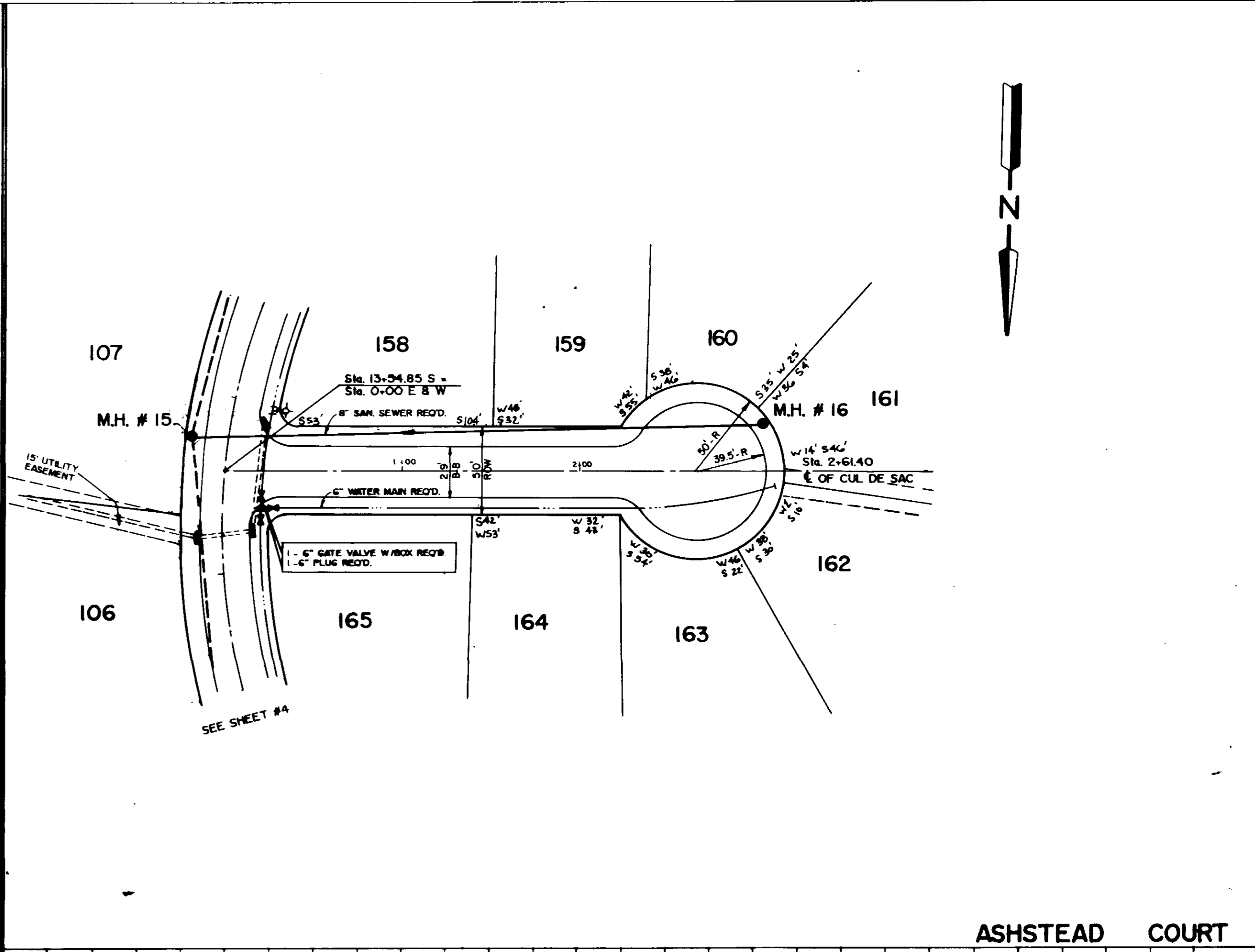
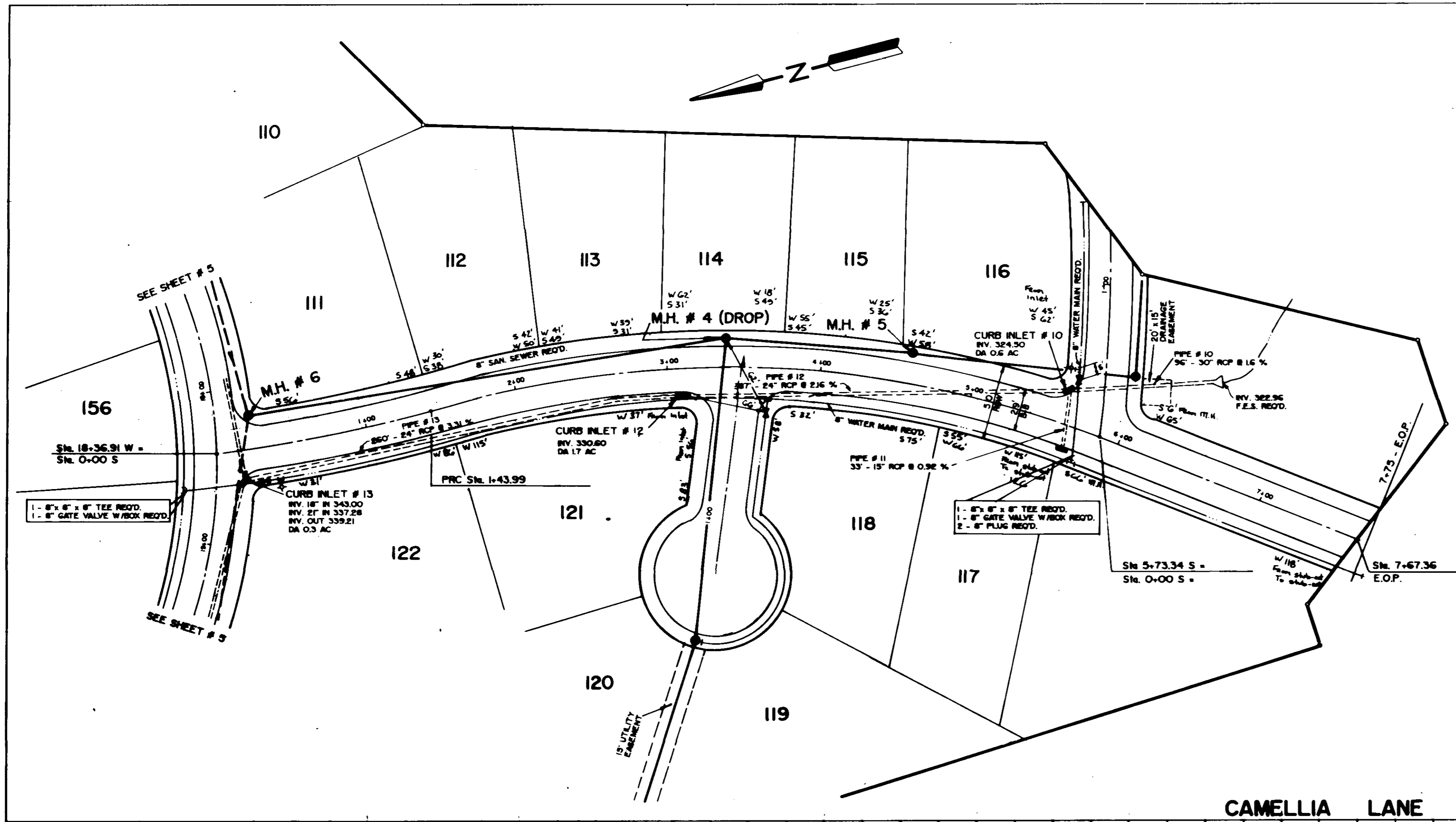


PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE  
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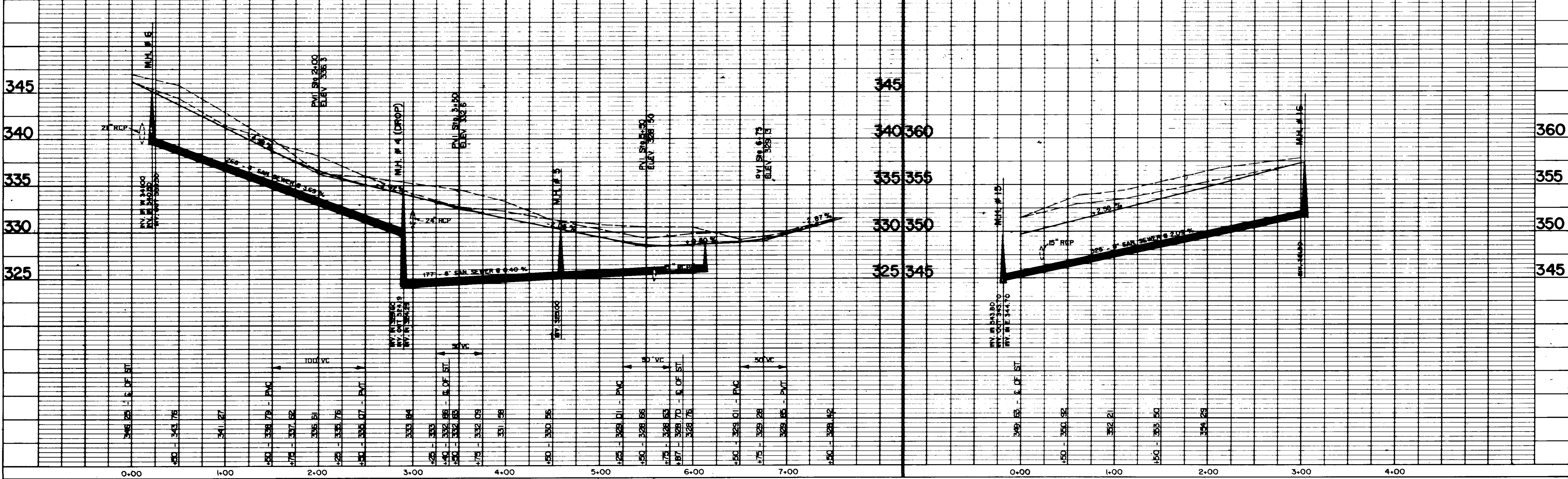
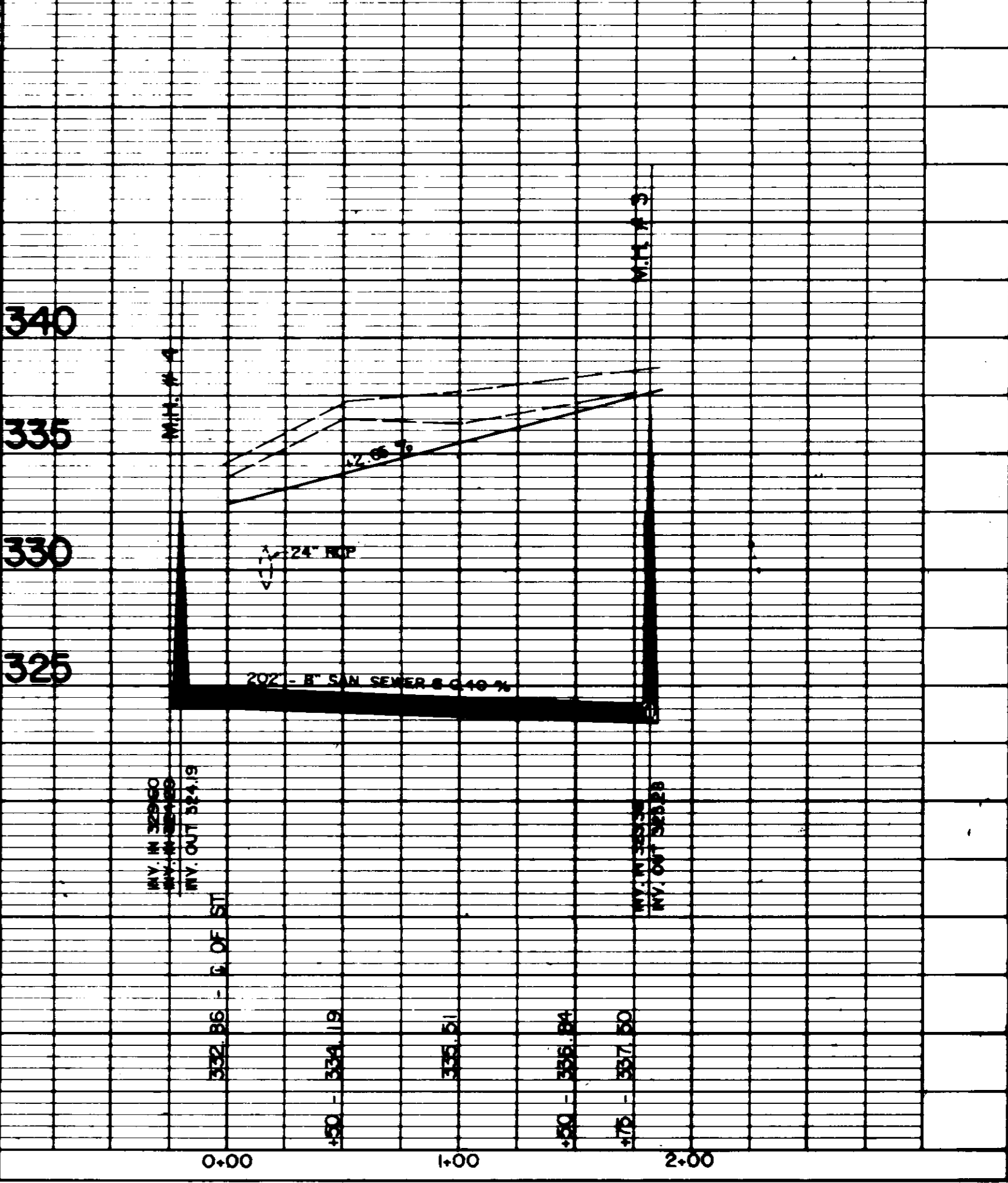
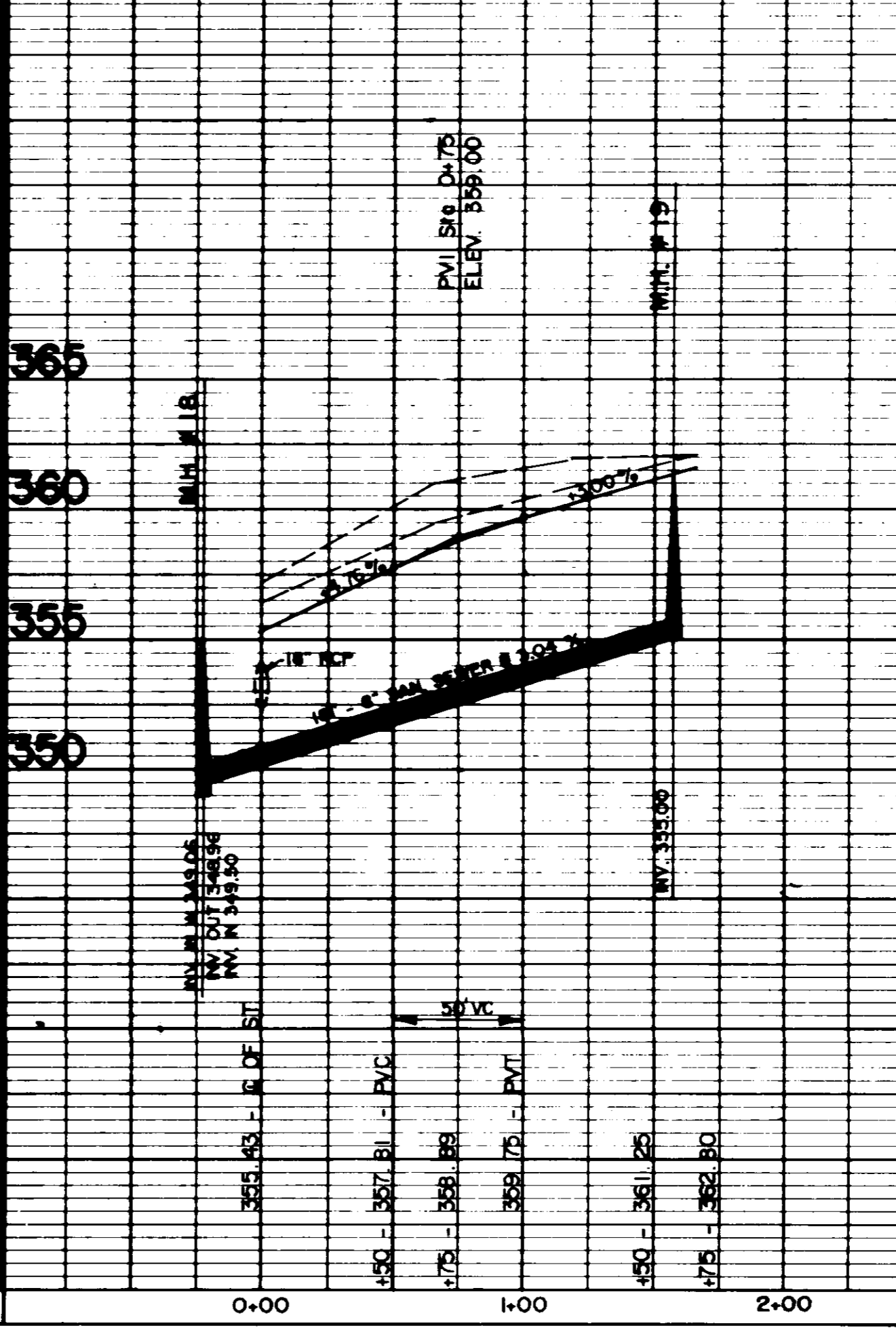
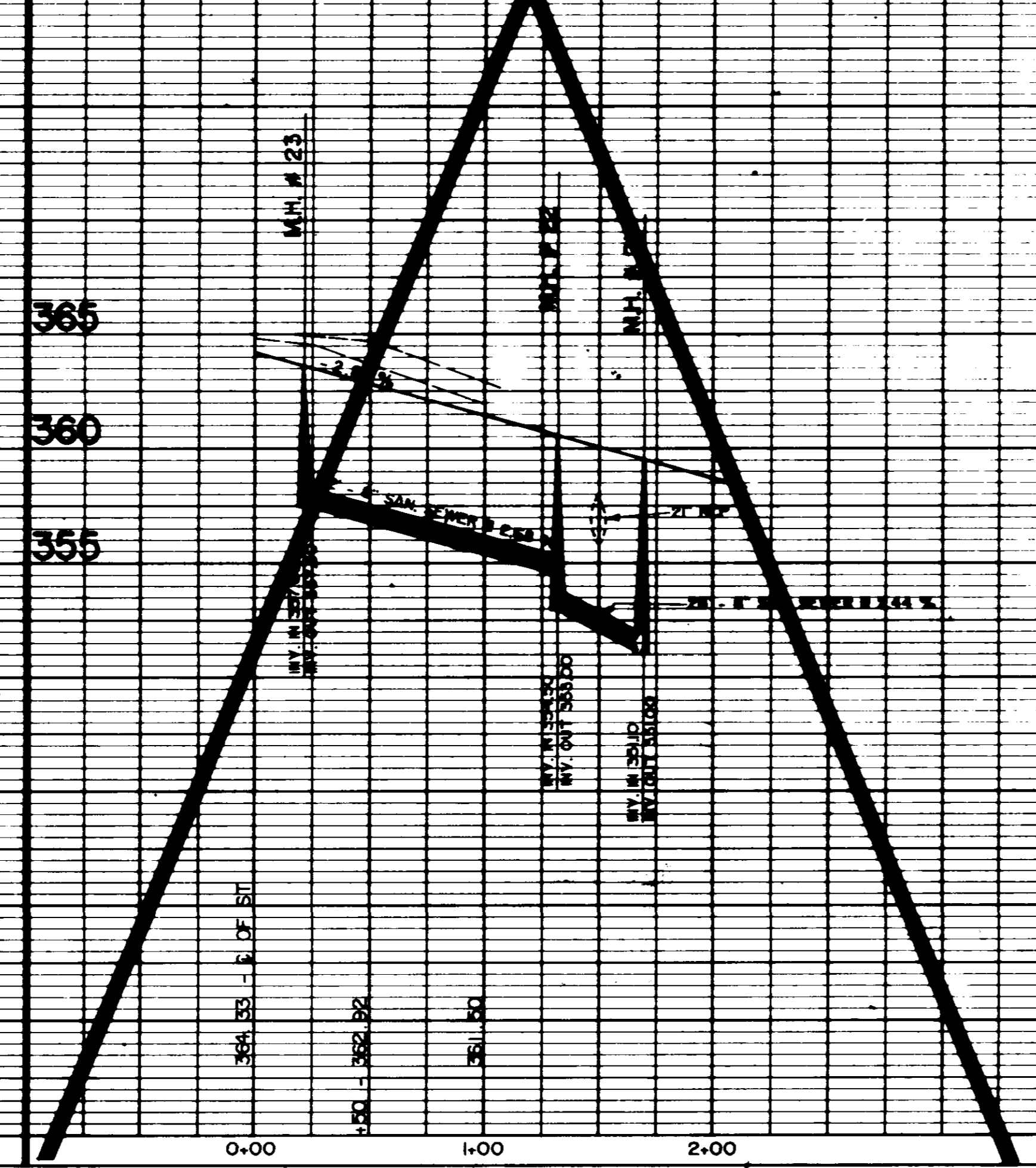
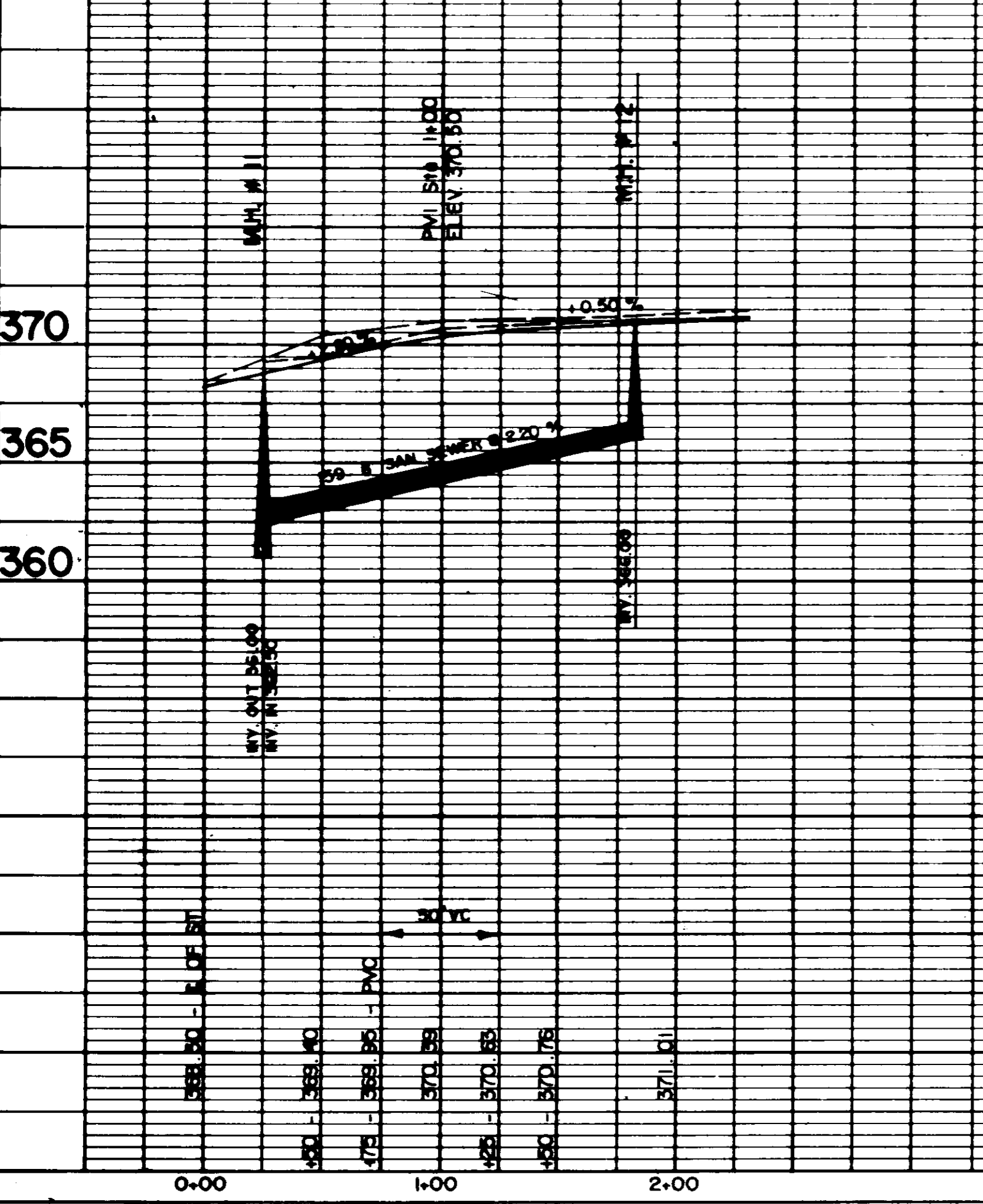
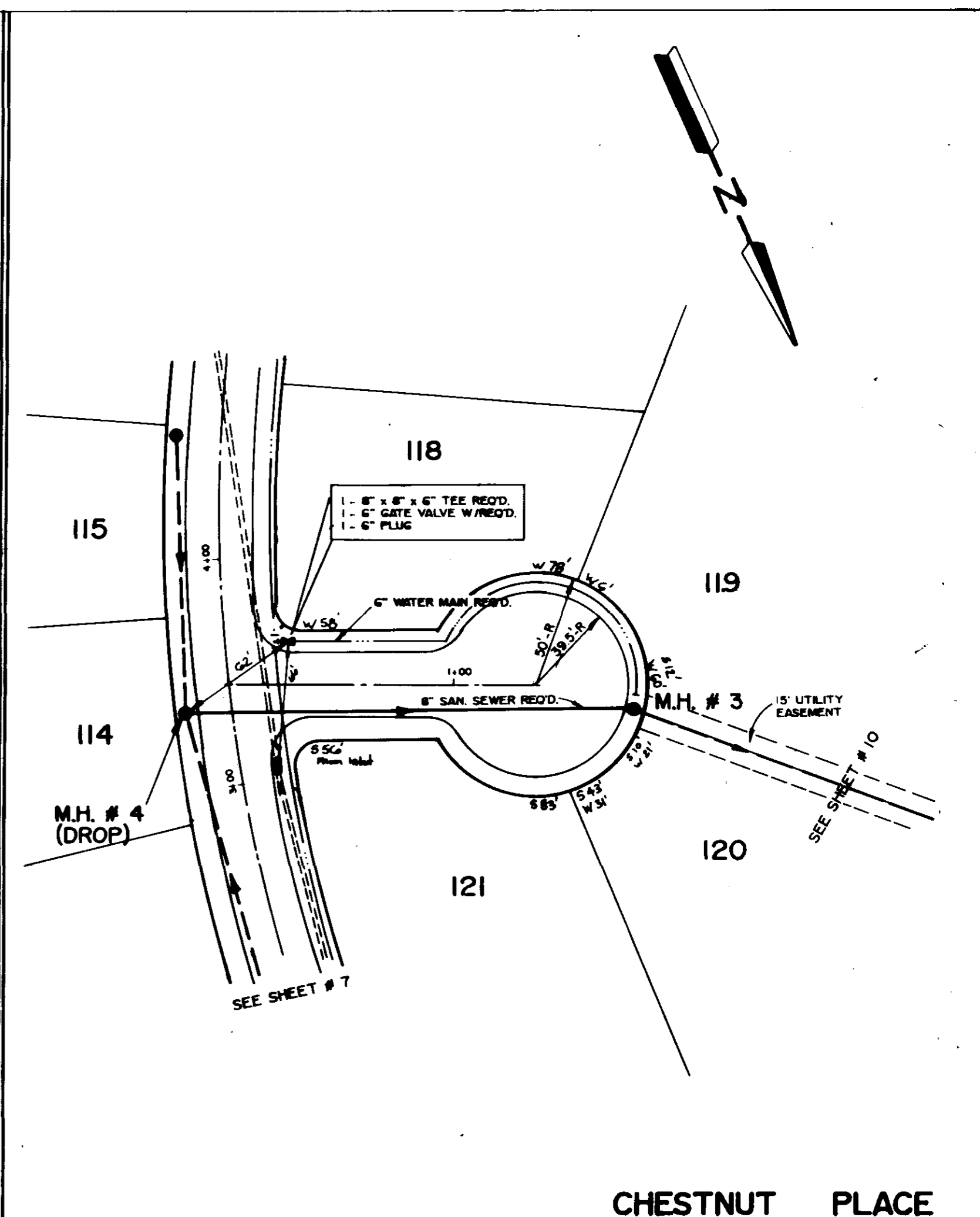
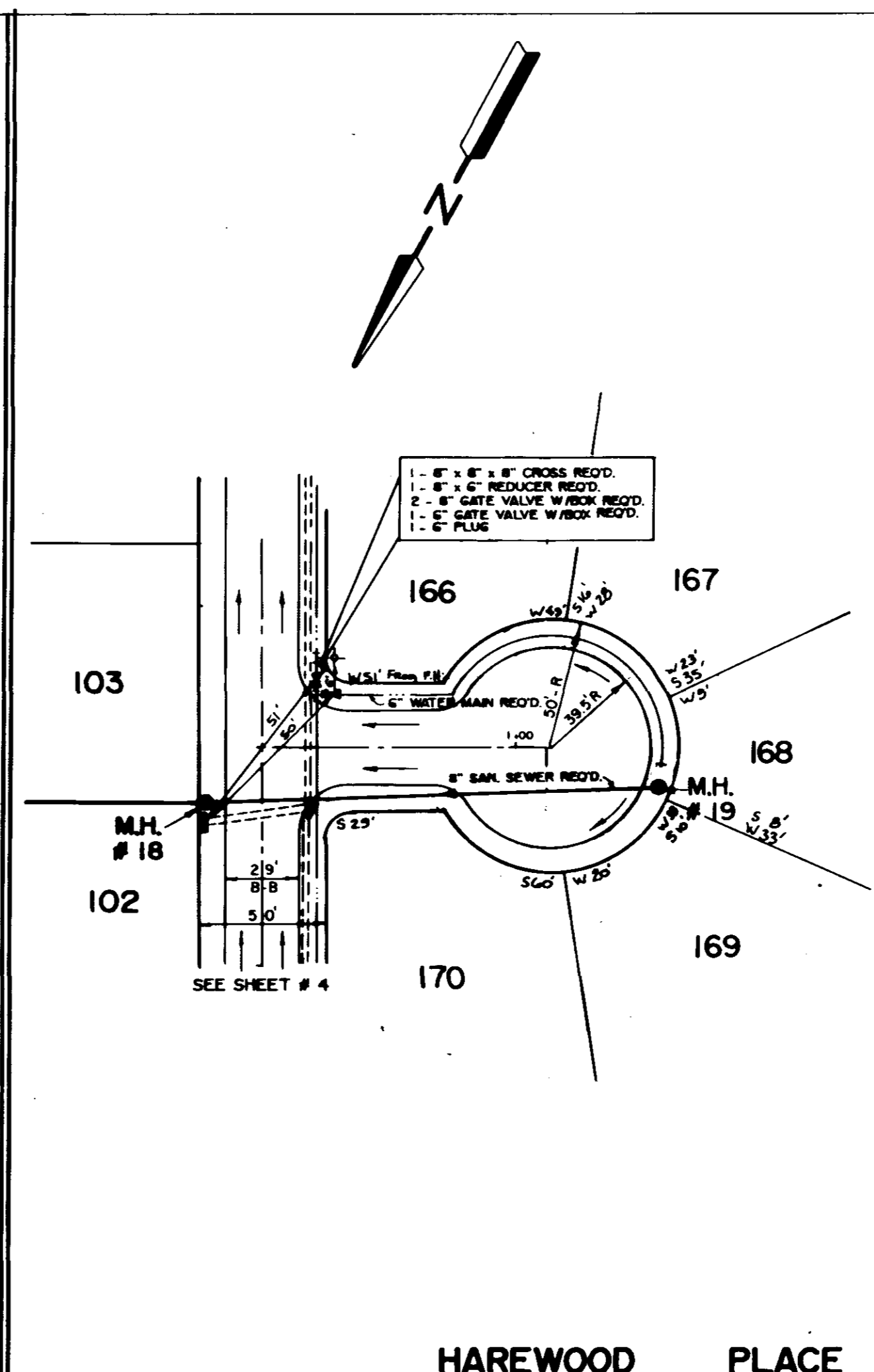
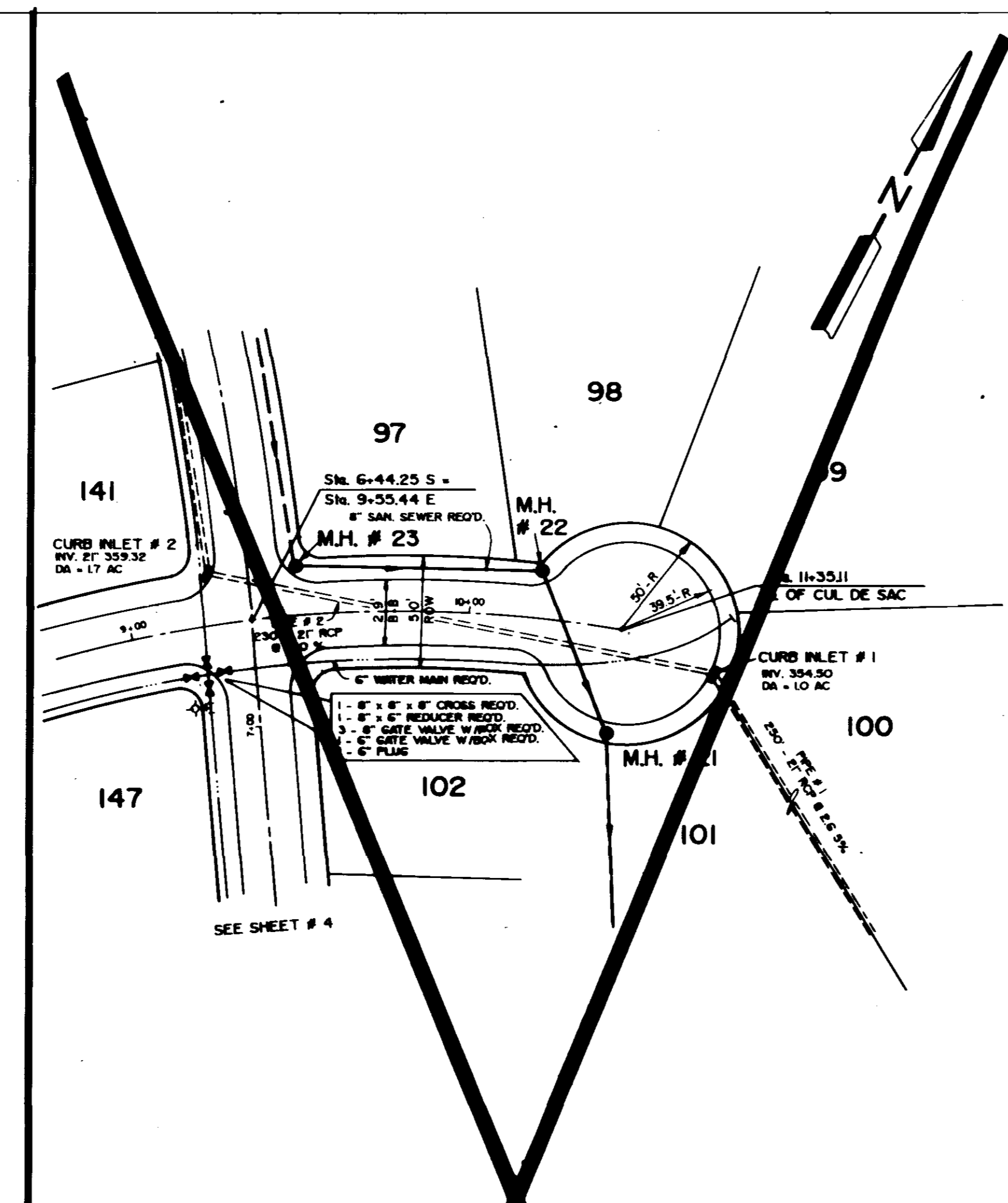
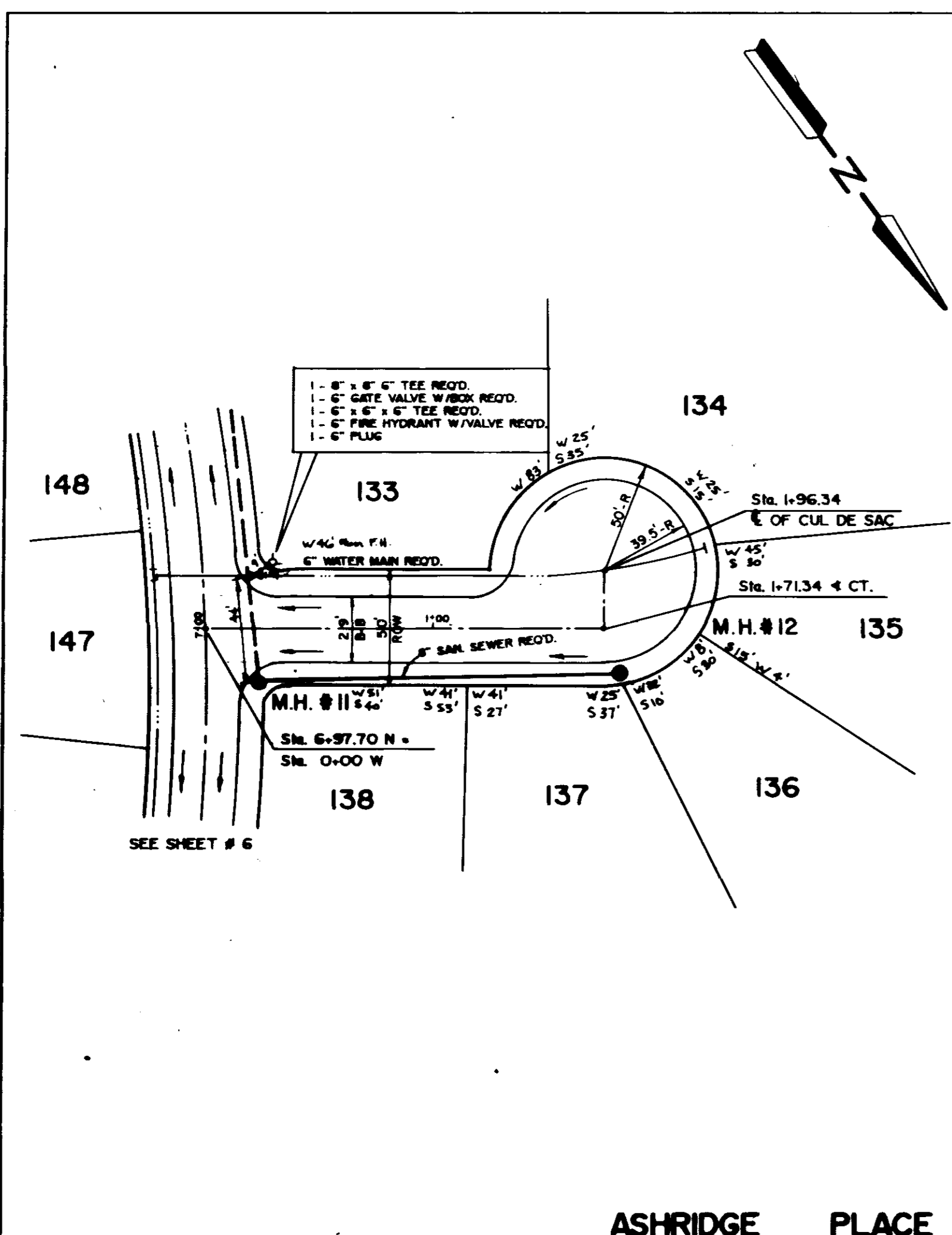


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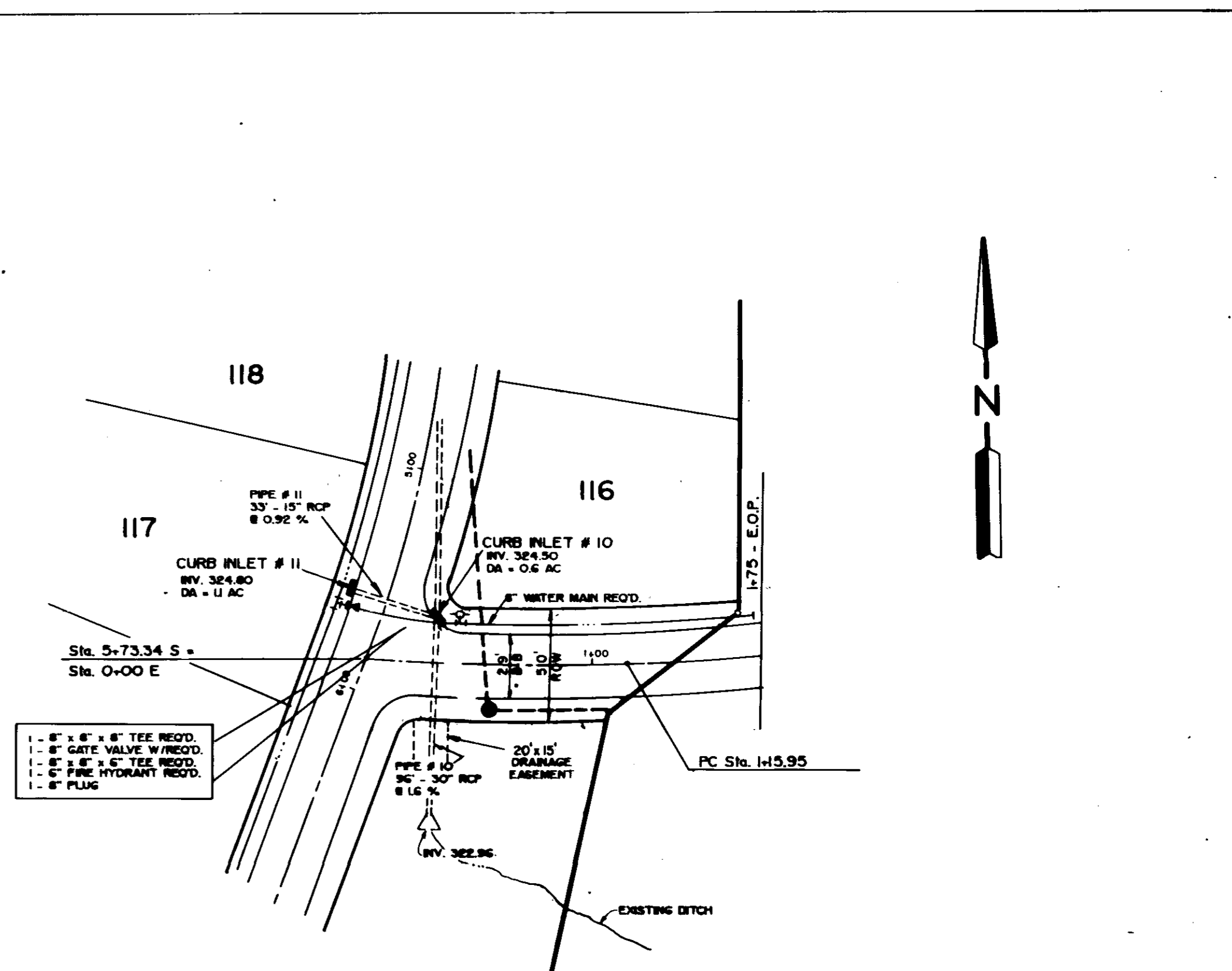
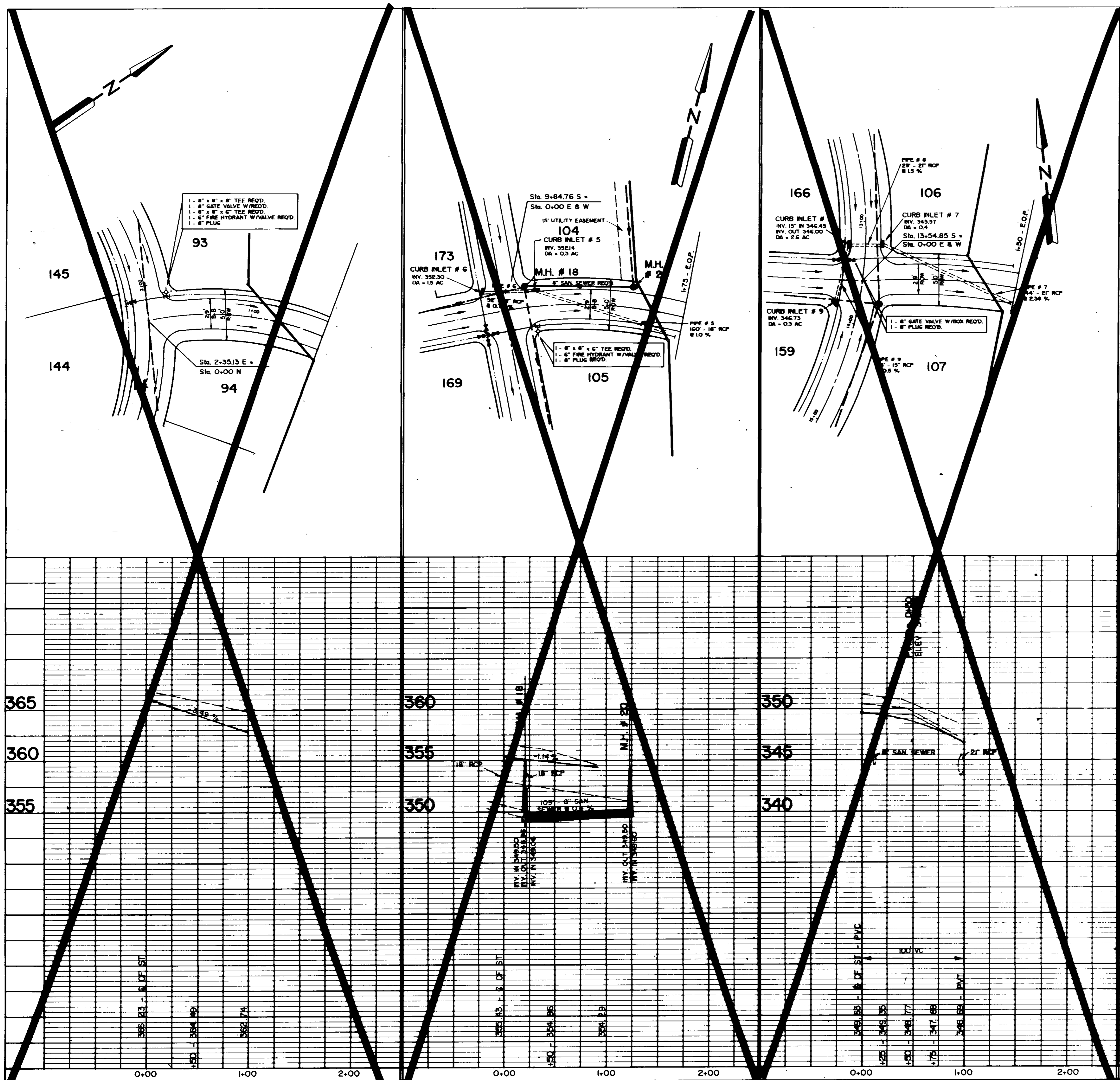
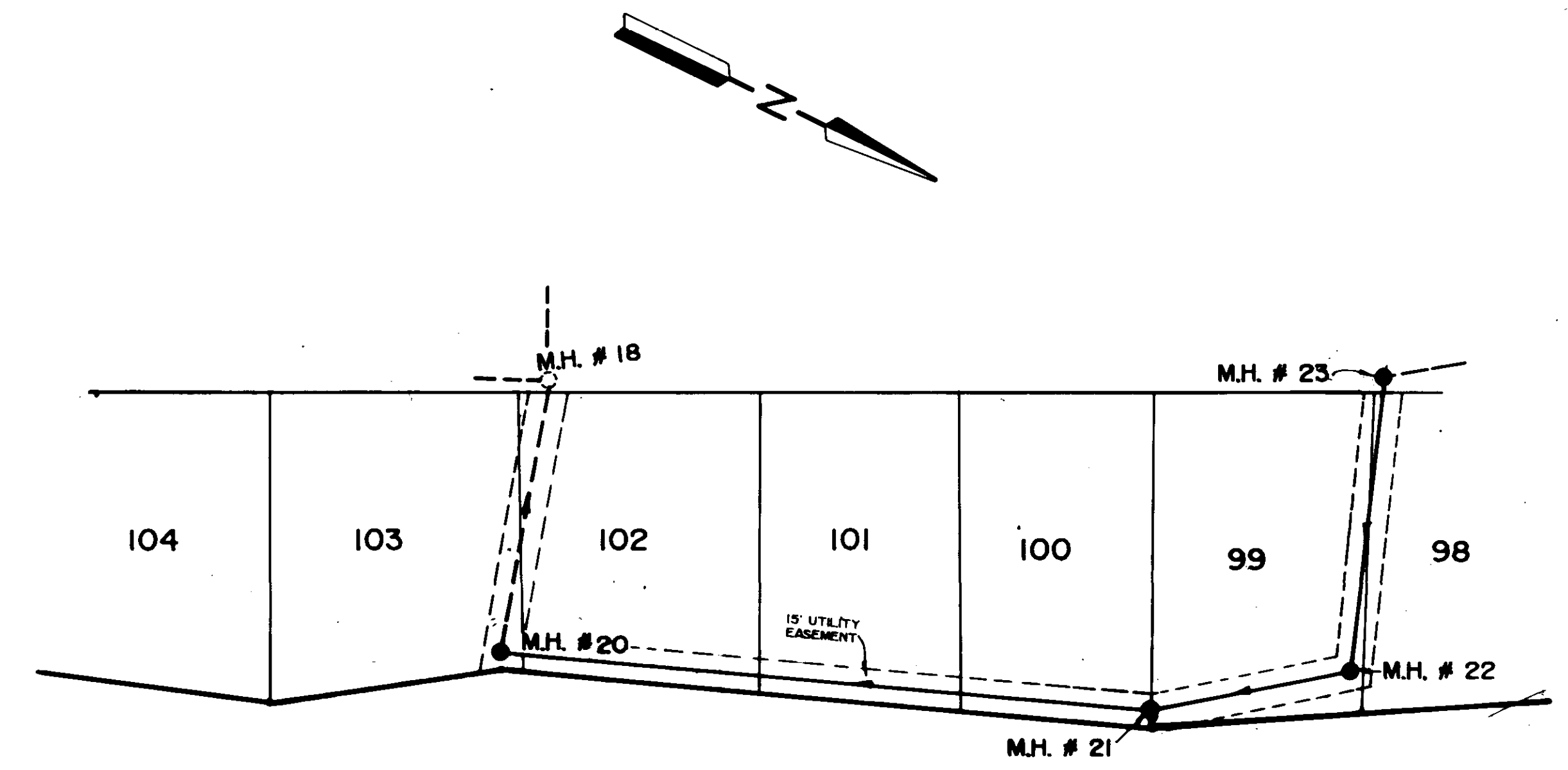
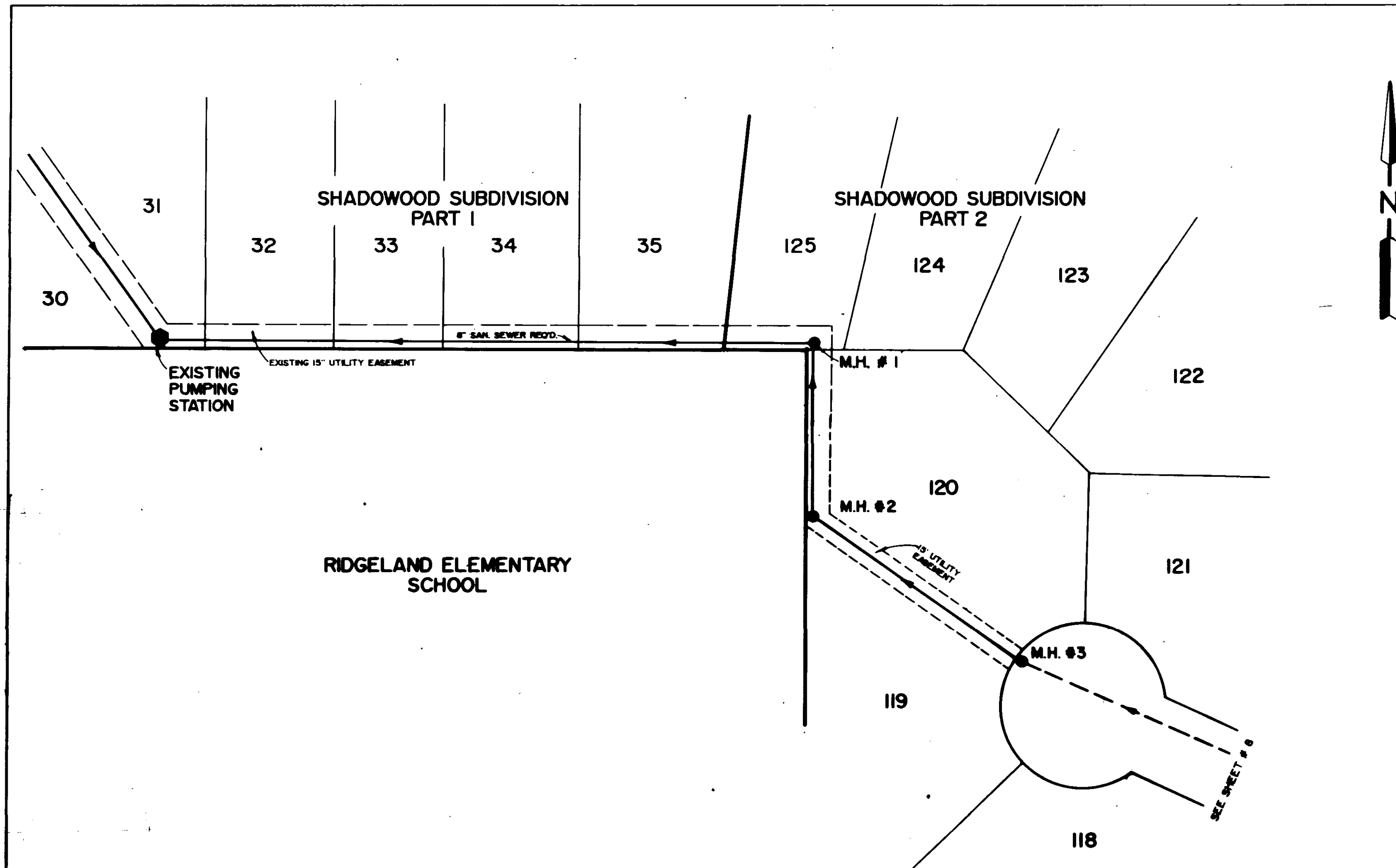


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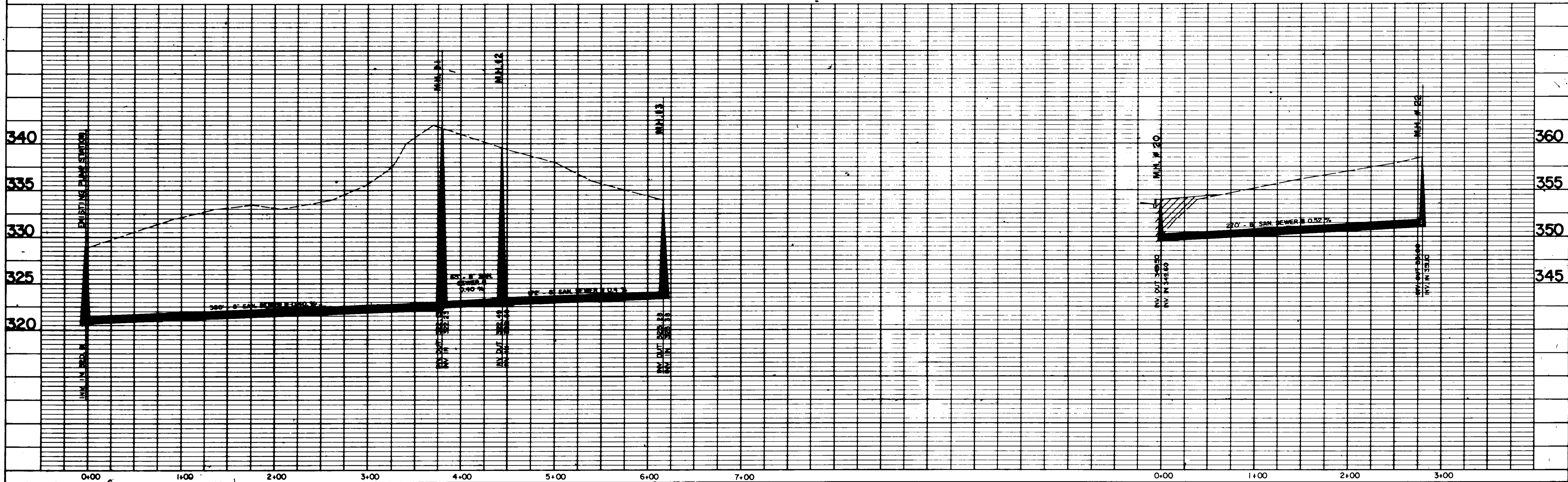
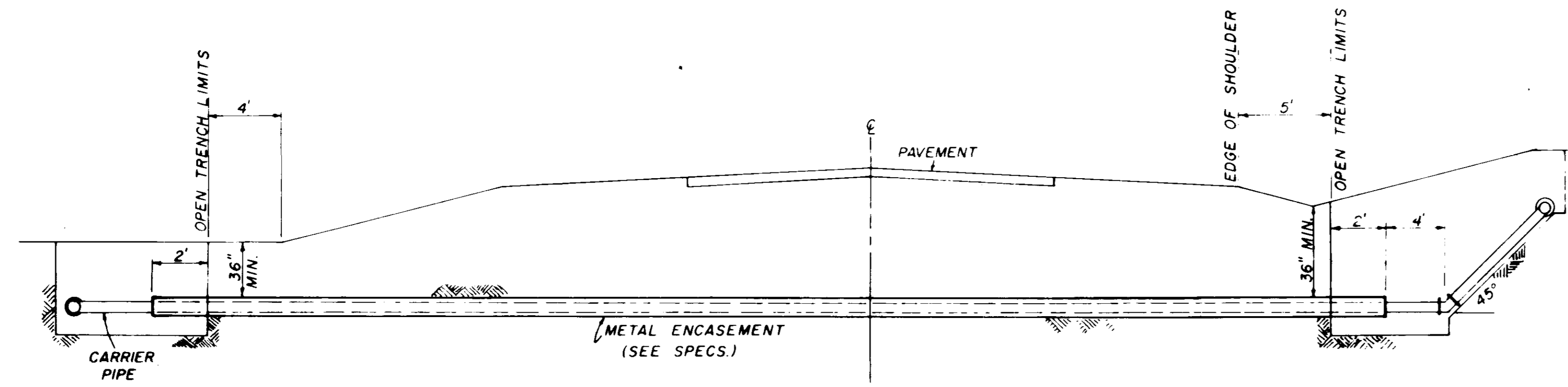
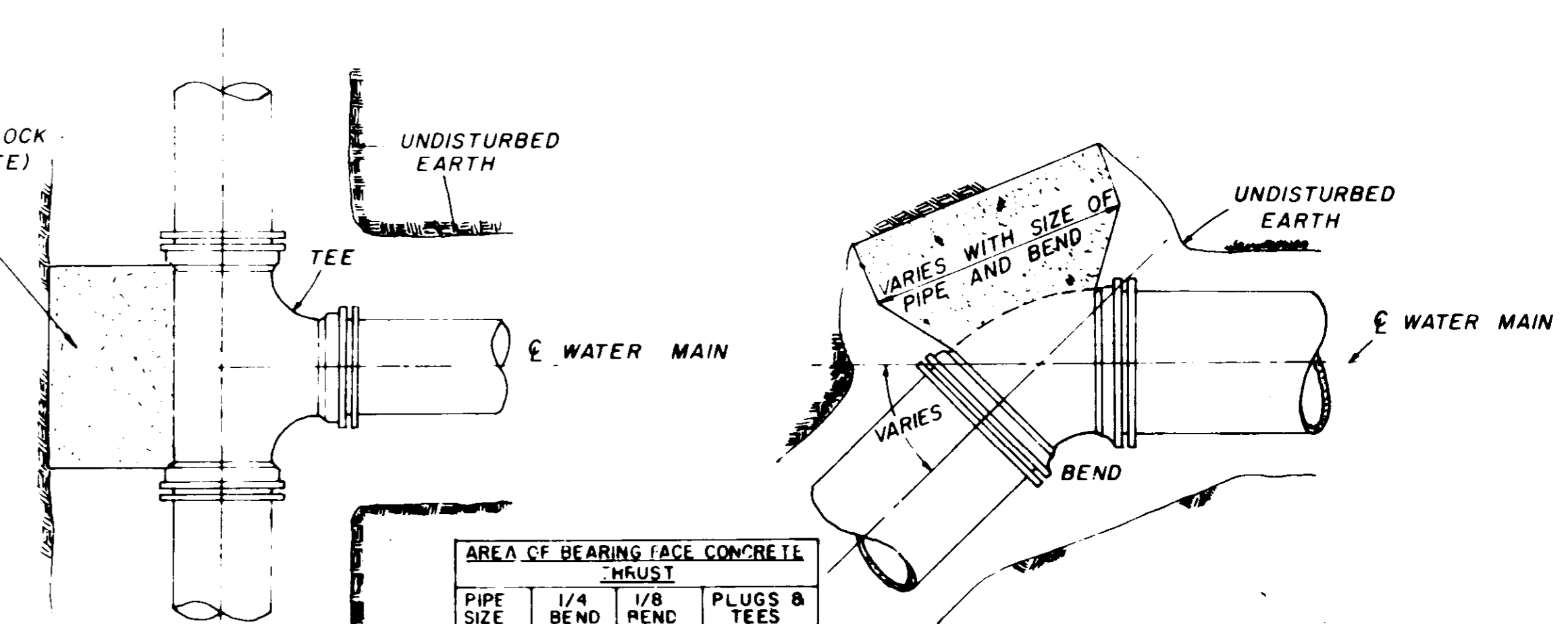


PLATE 1-SINGLE PLAN AND PROFILE-PULL LINE  
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**TYPICAL CASED CROSSING**

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

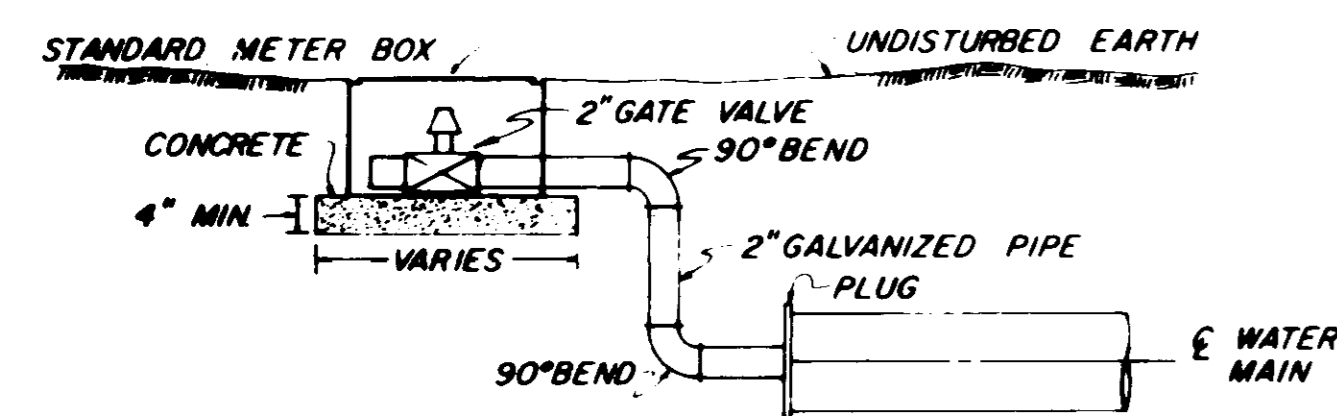


**PLAN**

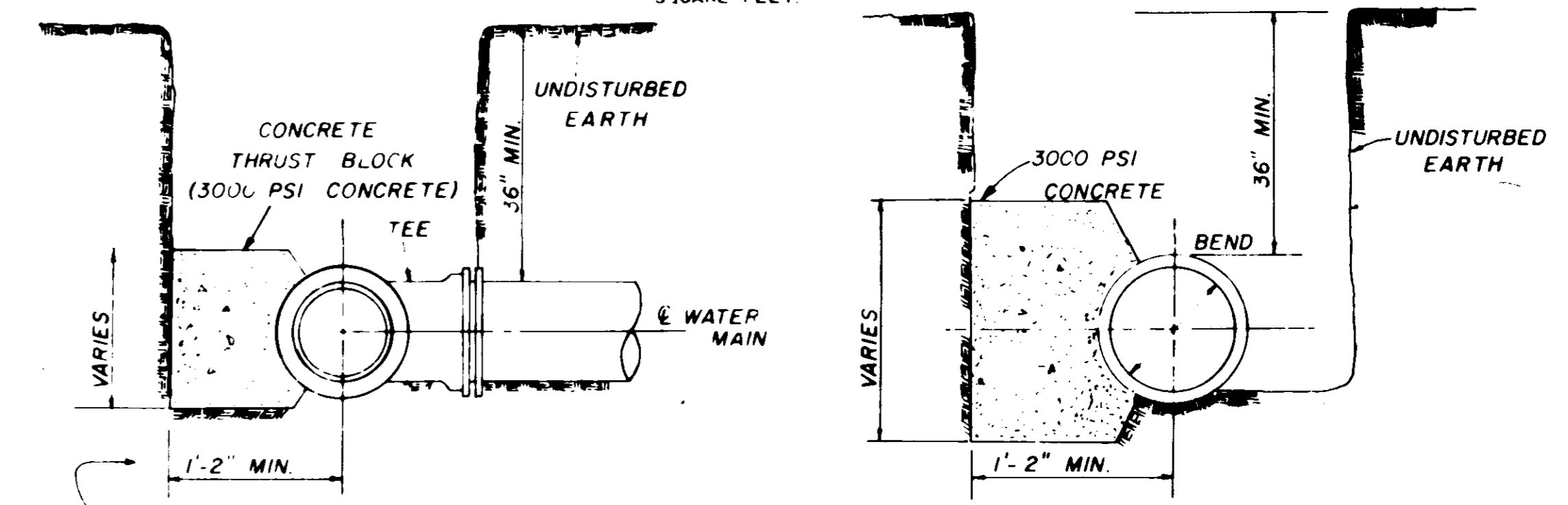
**PLAN**

PIPE SIZE	AREA OF BEARING FACE CONCRETE THRUST		
	1/4 BEND	1/8 BEND	PLUGS & TEES
4-6	3	3	3
8	3	3	3
10	4	3	3
12	6	3	4
16	11	4	7

NOTE: AREA OF BEARING FACE IN SQUARE FEET.



**TYPICAL 2" BLOW-OFF DETAIL**

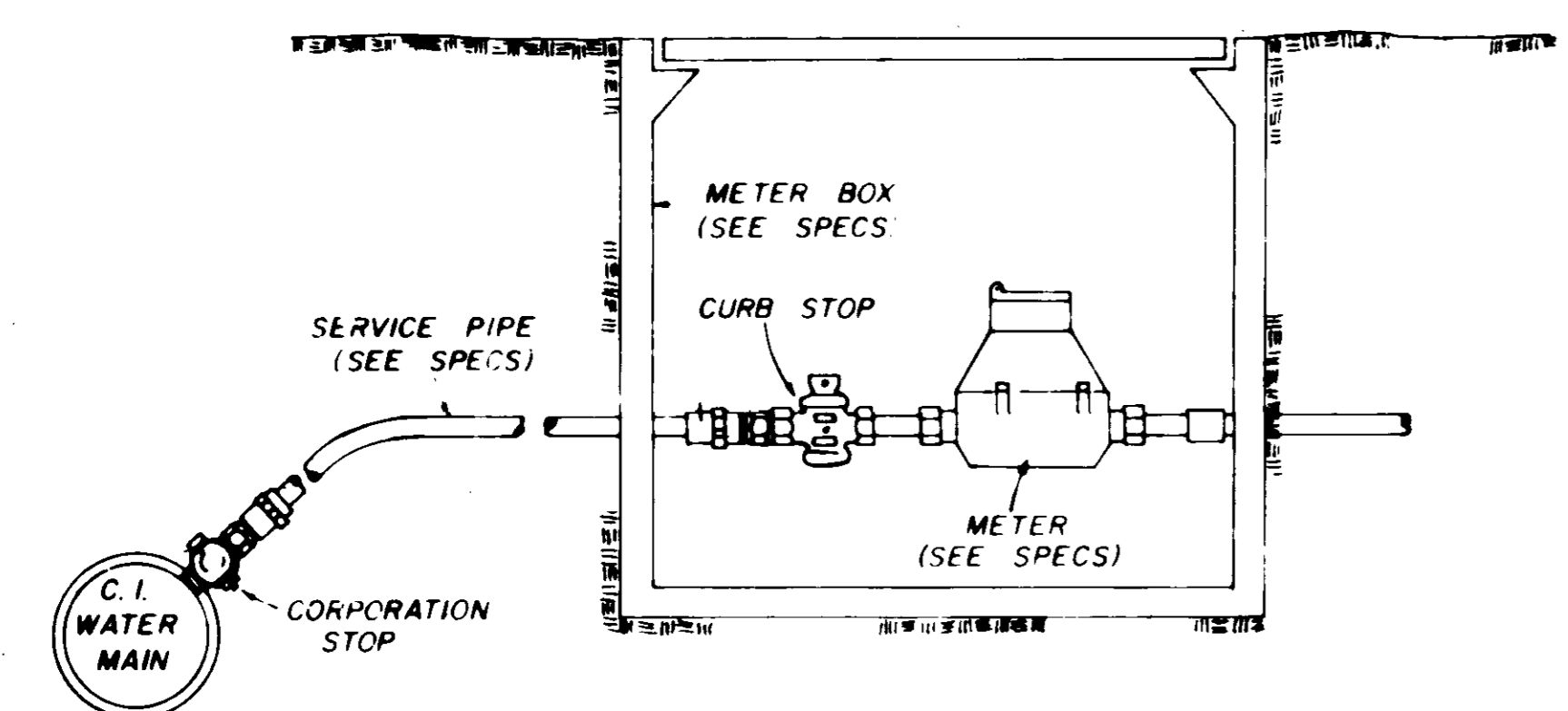


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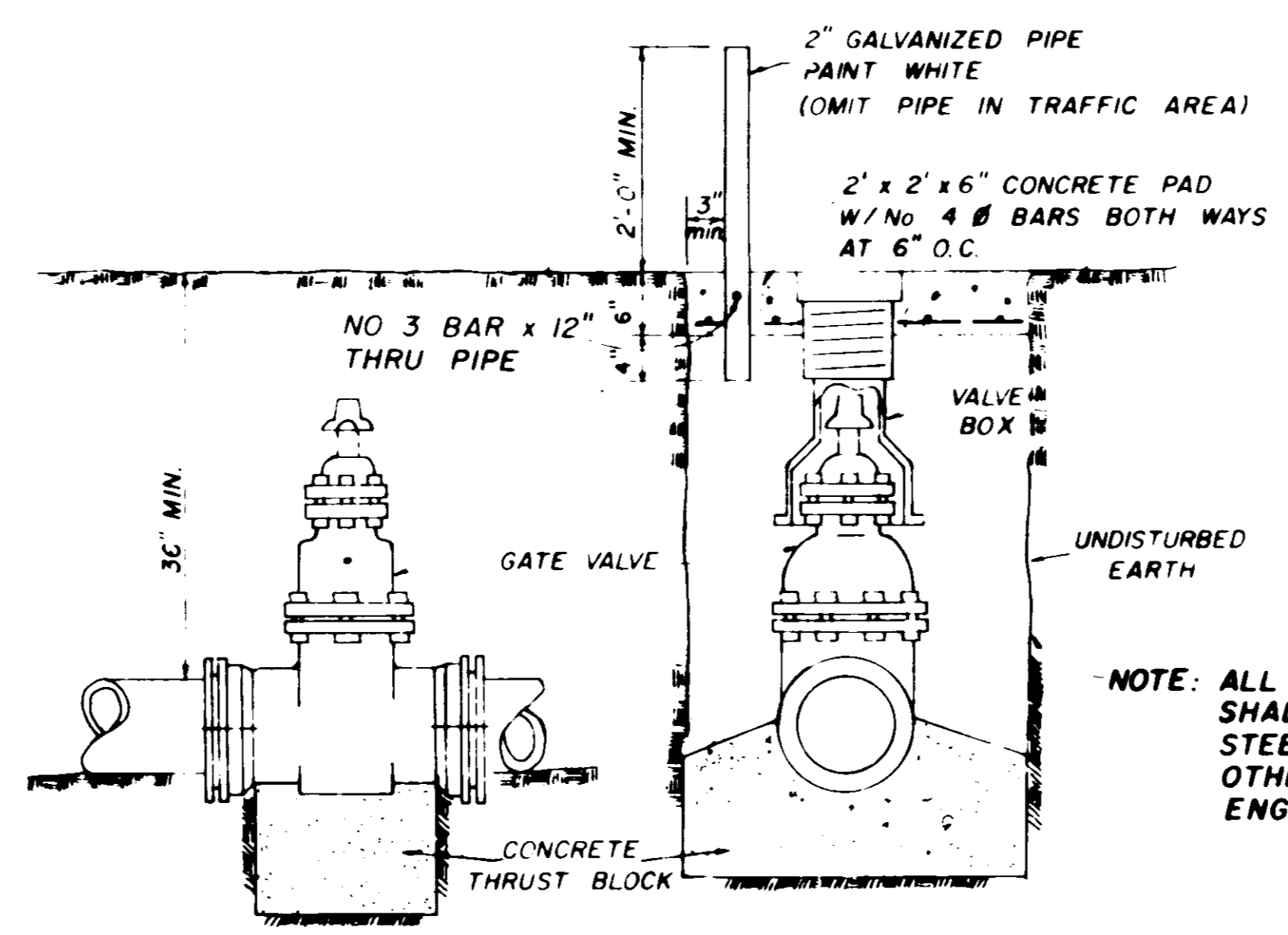
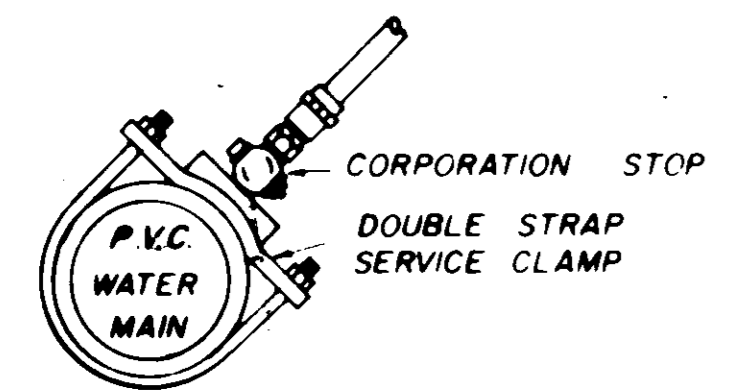
**SECTION**

**BLOCKING DETAILS FOR TEES & BENDS**

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

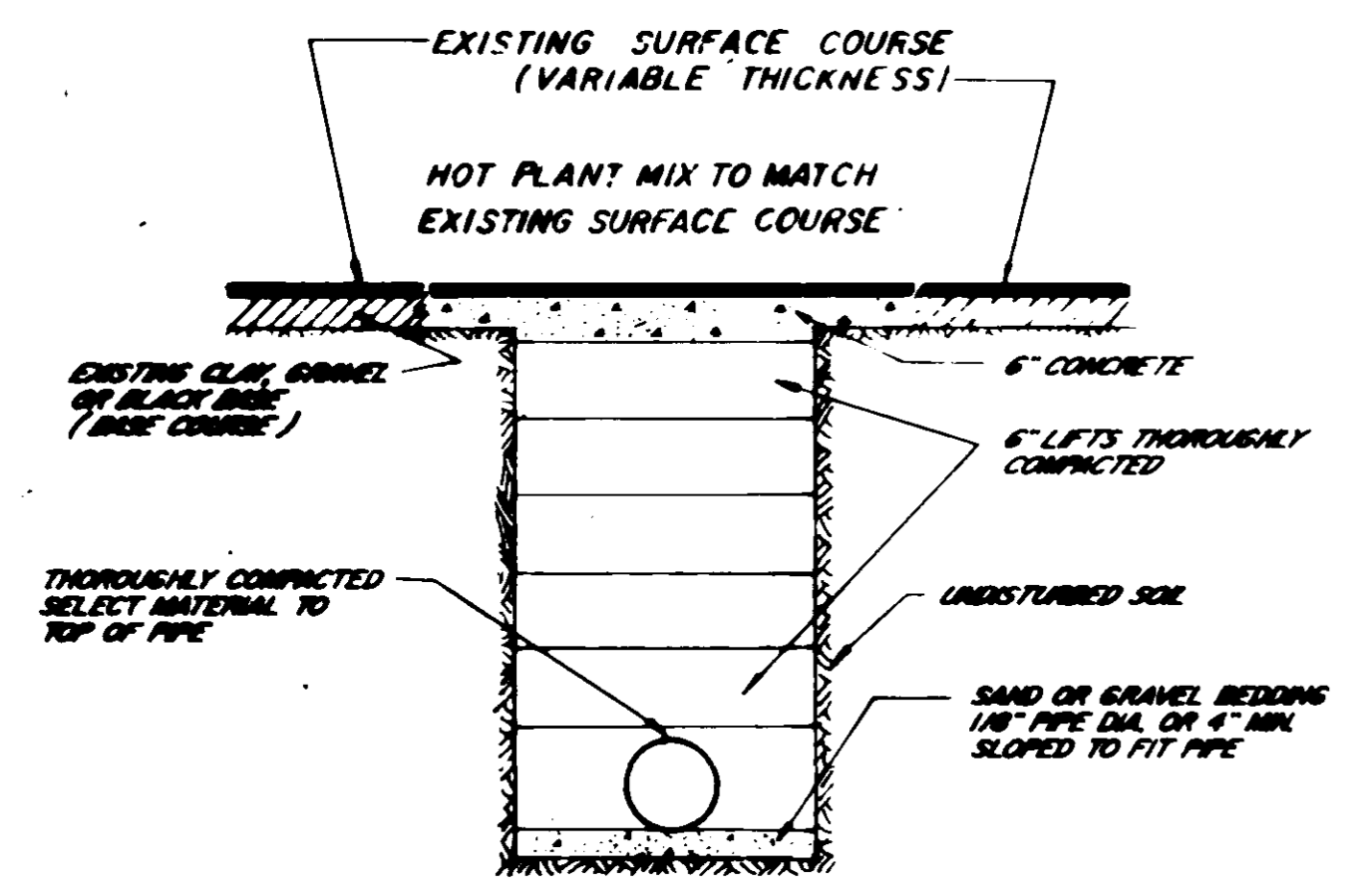


**TYPICAL SERVICE ASSEMBLY**

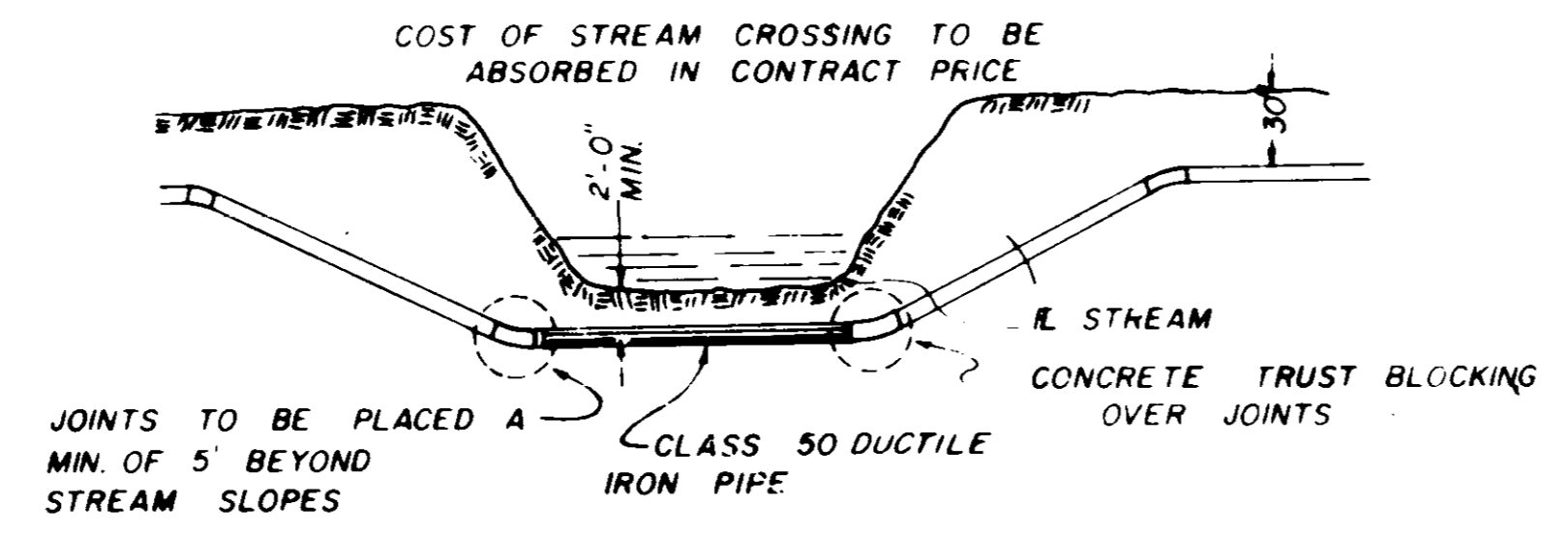


**ELEVATION SECTION**

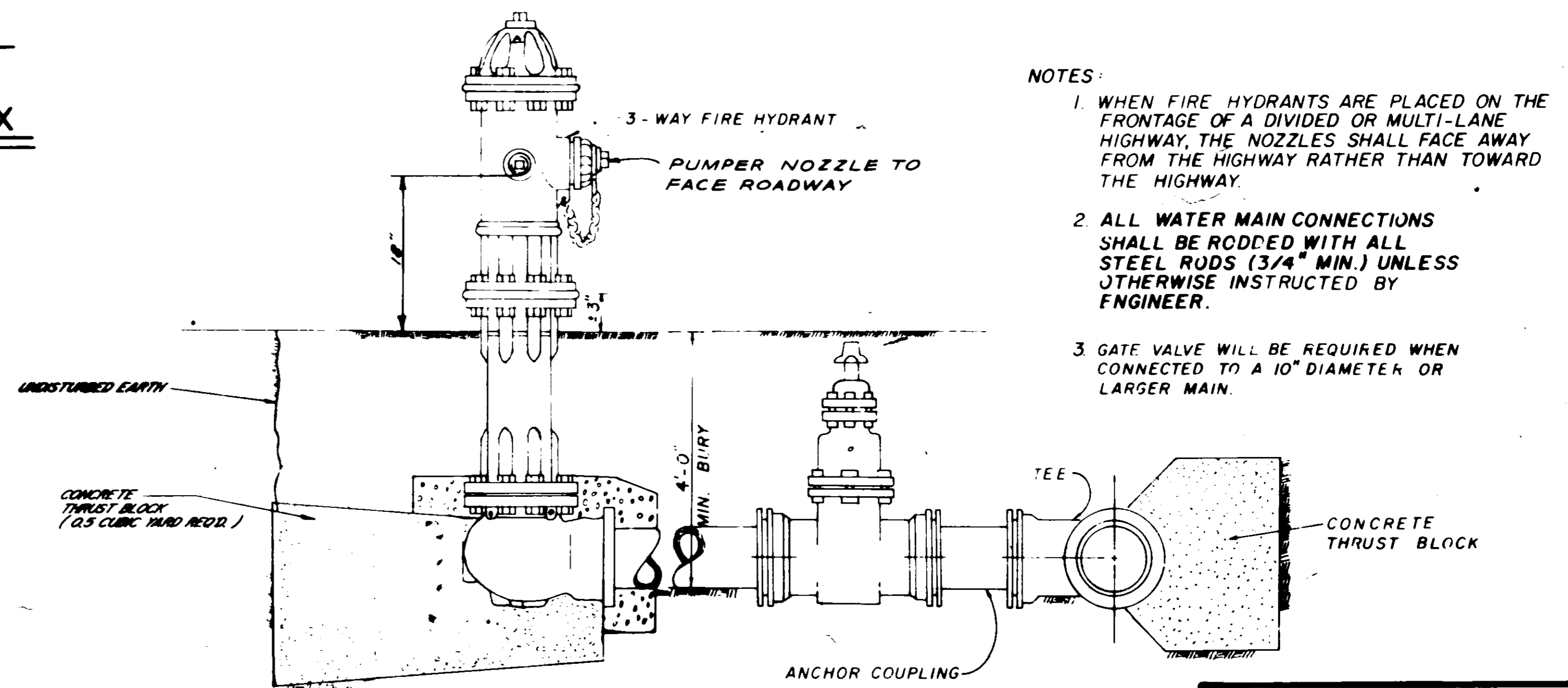
**TYPICAL VALVE & BOX**



**STREET REPAIR OF OPEN CUT**



**TYPICAL STREAM CROSSING**



**TYPICAL FIRE HYDRANT**

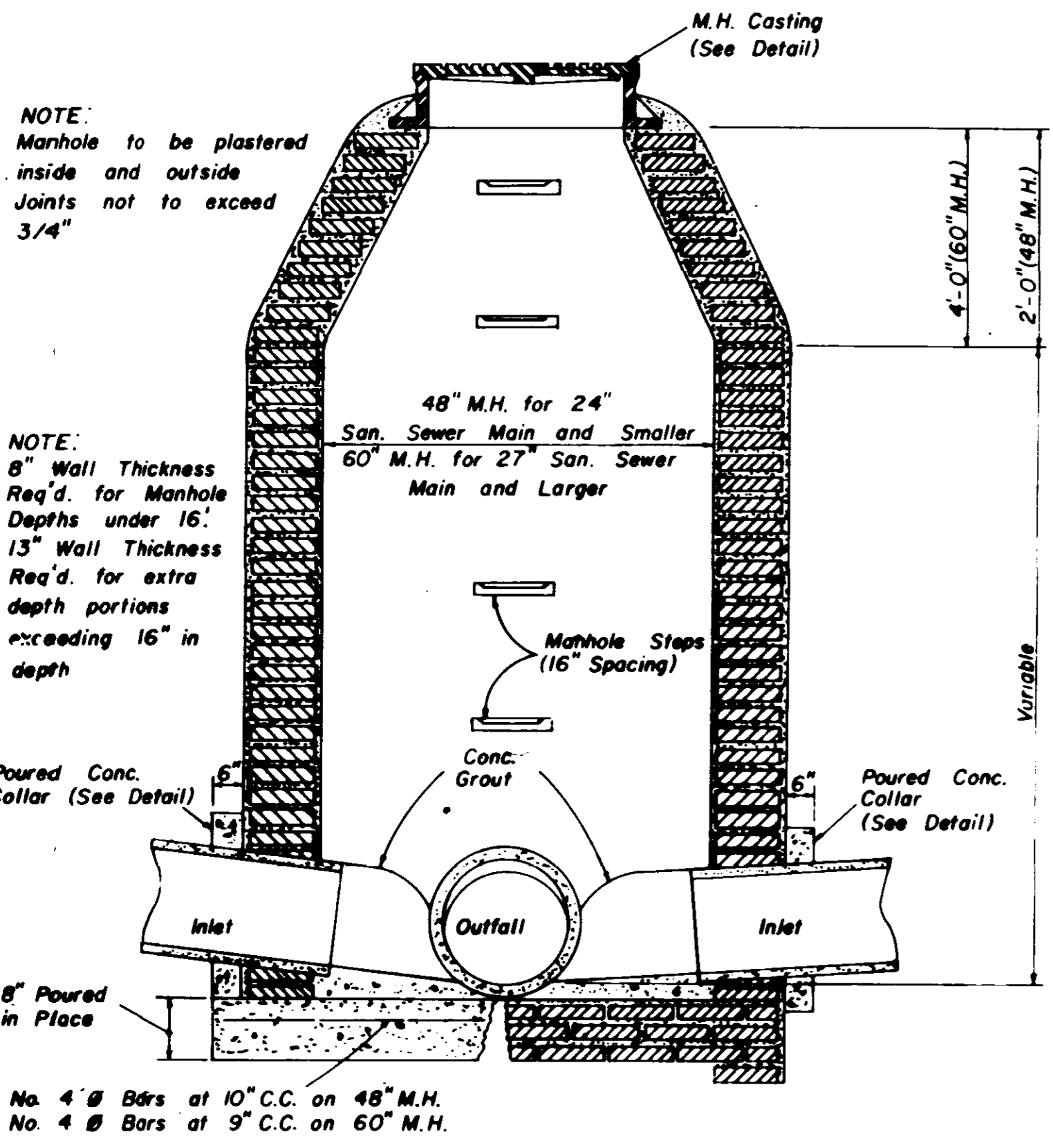
- NOTES:
1. WHEN FIRE HYDRANTS ARE PLACED ON THE FRONTAGE OF A DIVIDED OR MULTI-LANE HIGHWAY THE NOZZLES SHALL FACE AWAY FROM THE HIGHWAY RATHER THAN TOWARD THE HIGHWAY.
  2. ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STEEL RODS (3/4" MIN.) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.
  3. GATE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

**WATER SYSTEM STANDARD DETAILS**

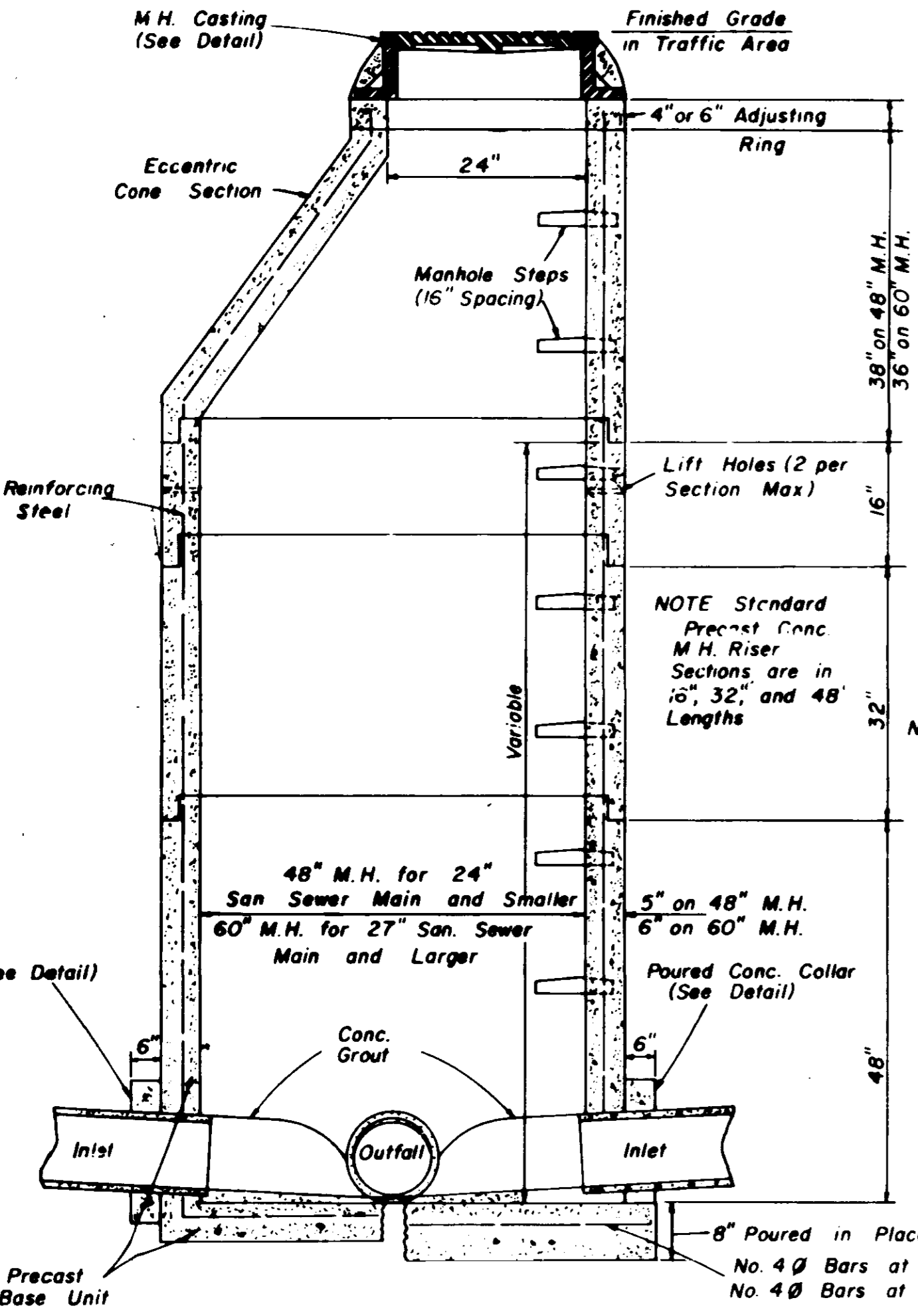
BROWNING INC.  
Consulting Engineers Jackson, Mississippi

DRAWN BY J.F. DATE MAY, 1994  
CHECKED BY P.L.B. SCALE: N.T.S.

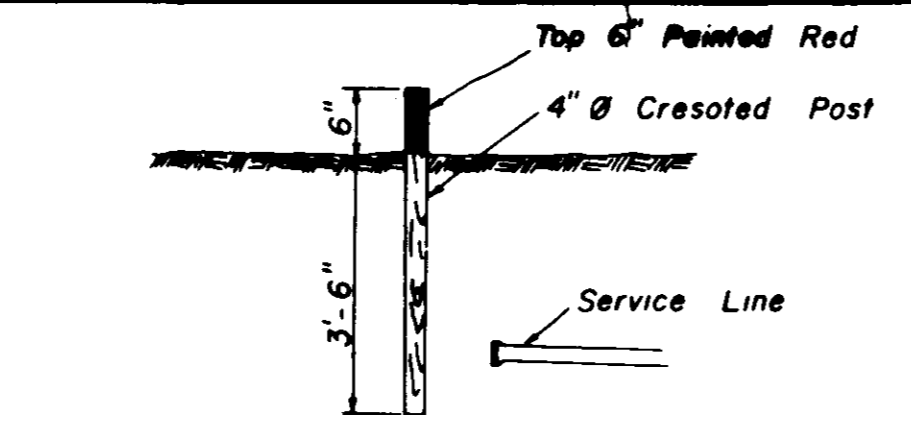
11 OF 13



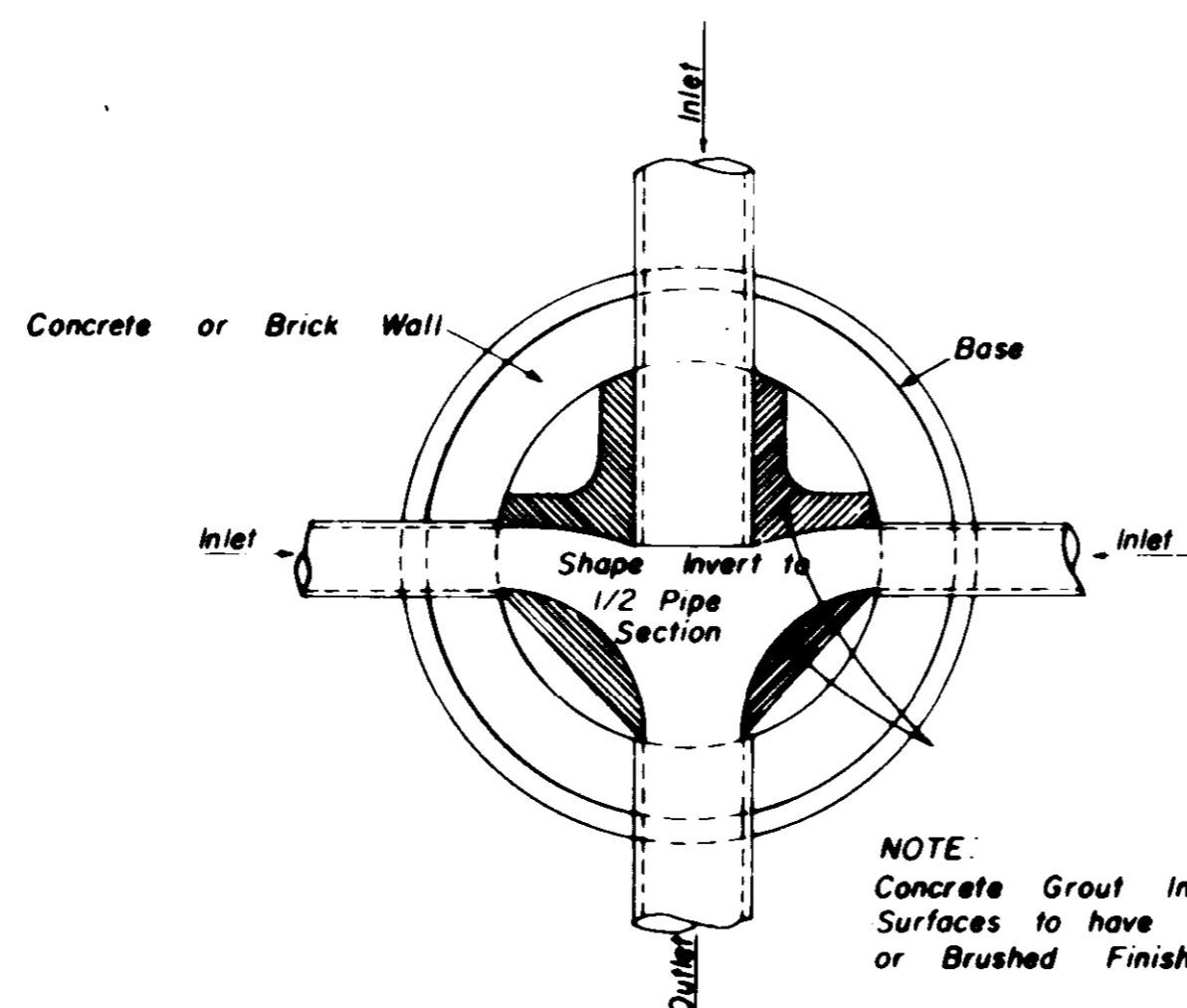
**SECTION  
STANDARD BRICK MANHOLE**



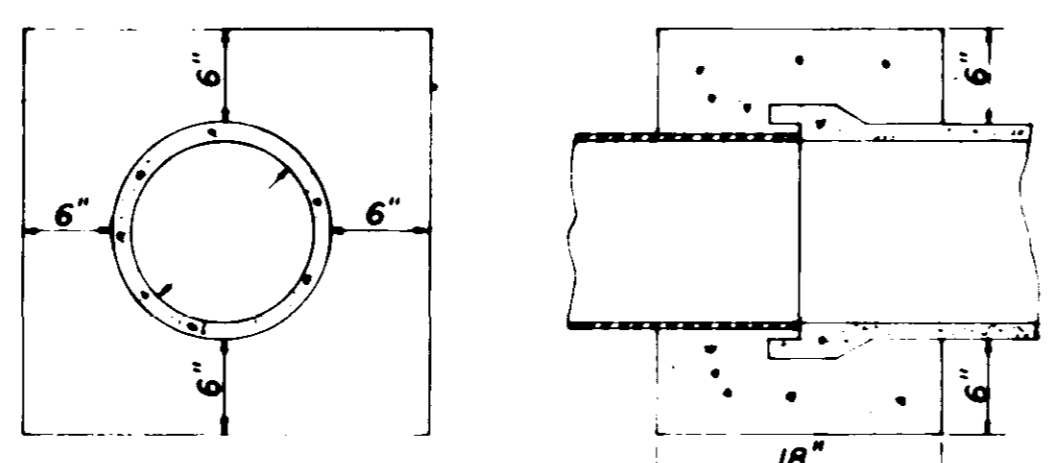
**SECTION  
PRECAST CONCRETE MANHOLE**



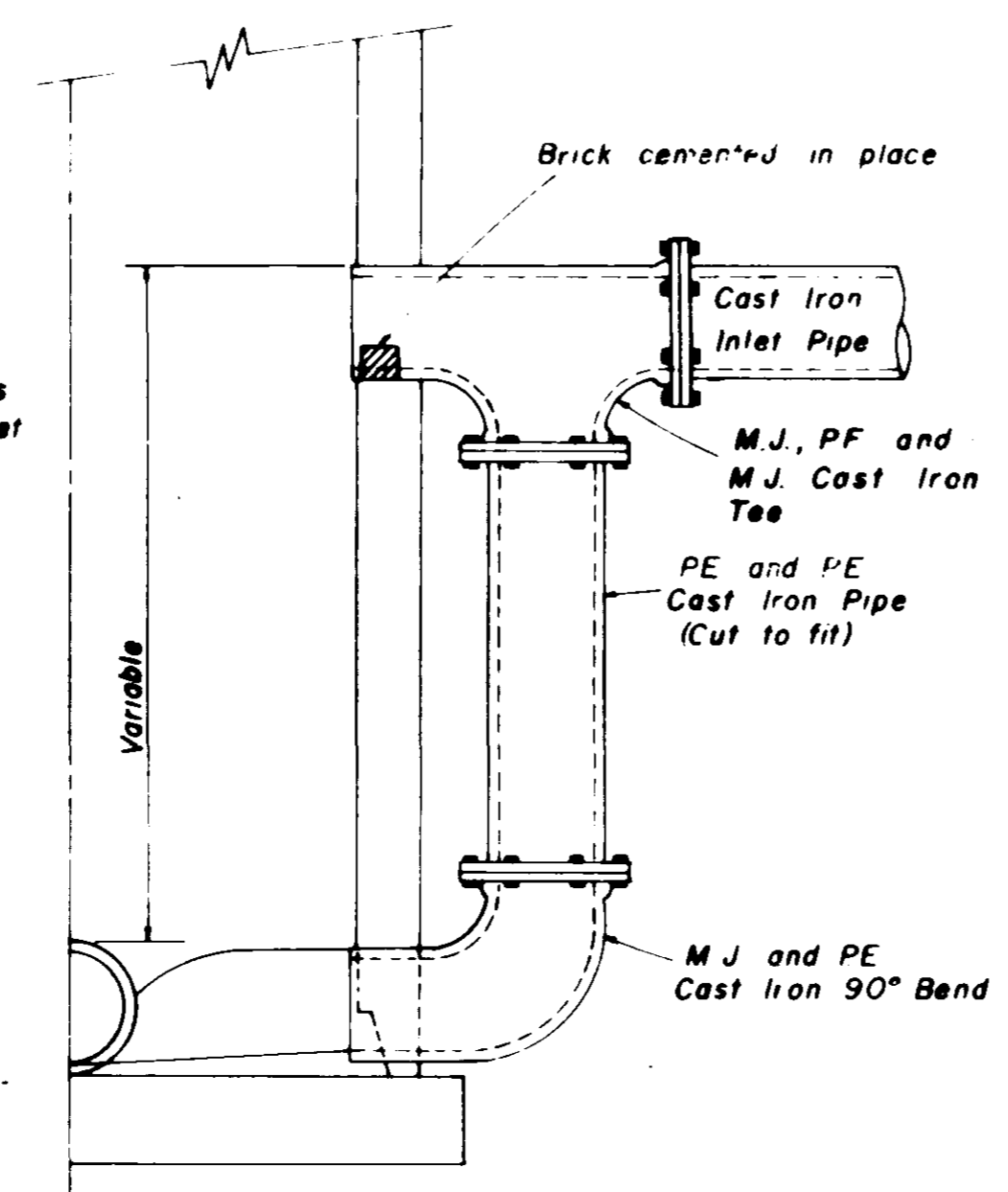
**SEWER SERVICE MARKER**



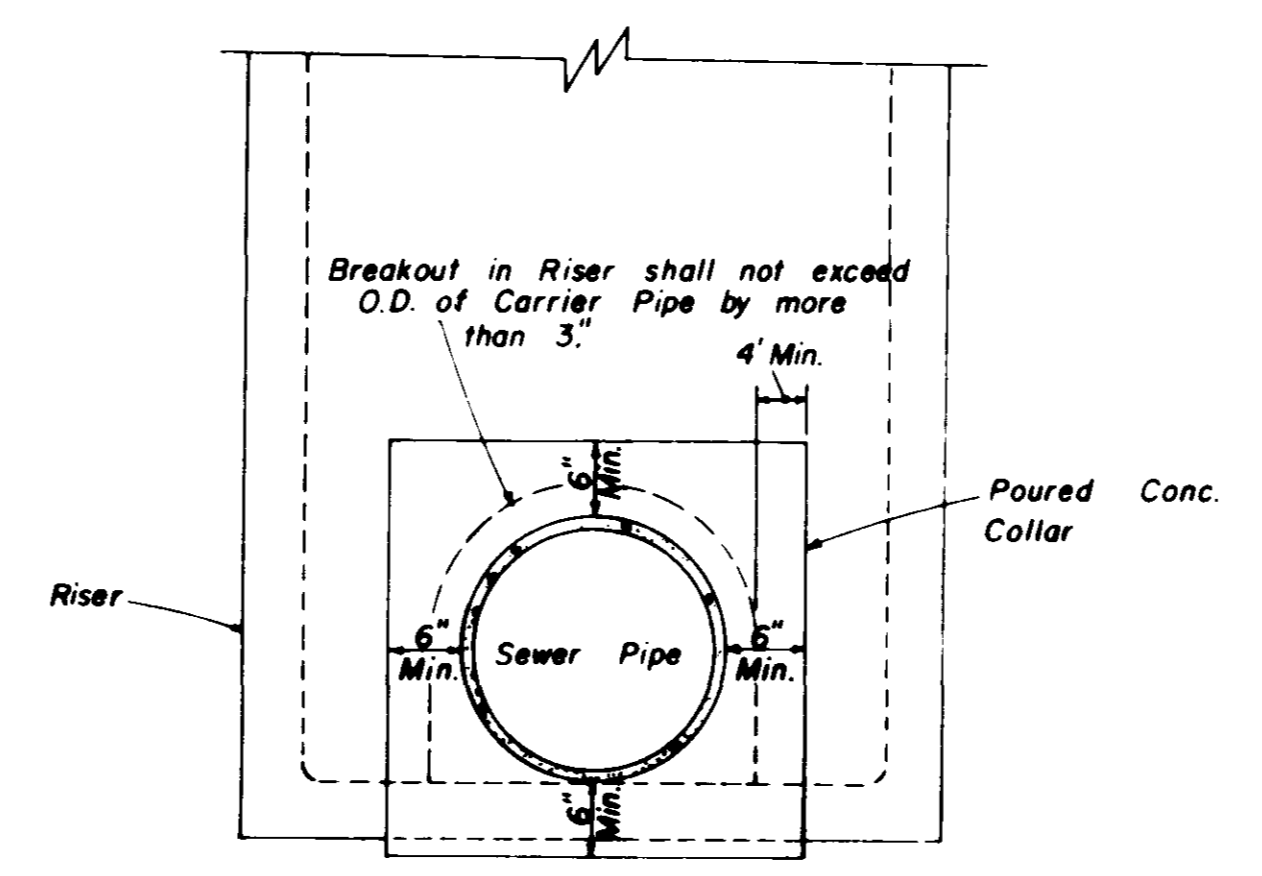
**PLAN OF MANHOLE  
FLOW CHANNELS**



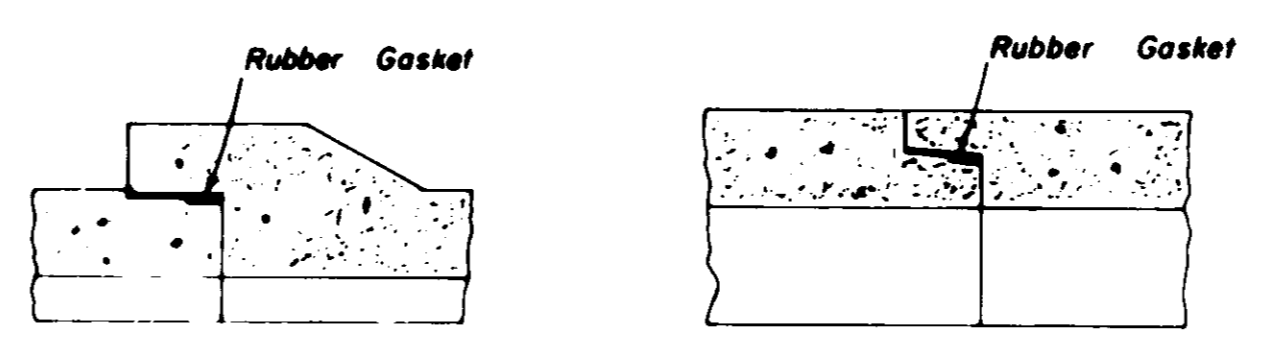
**ELEVATION SECTION  
CONCRETE COLLAR DETAILS**



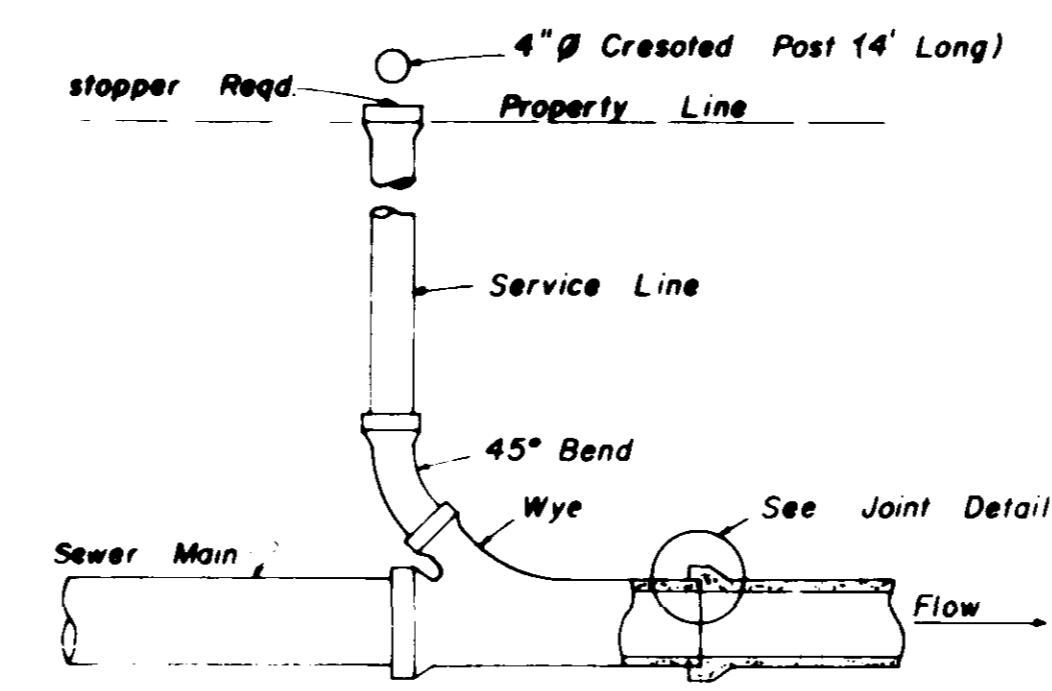
**HALF SECTION  
MANHOLE WITH DROP CONNECTION**



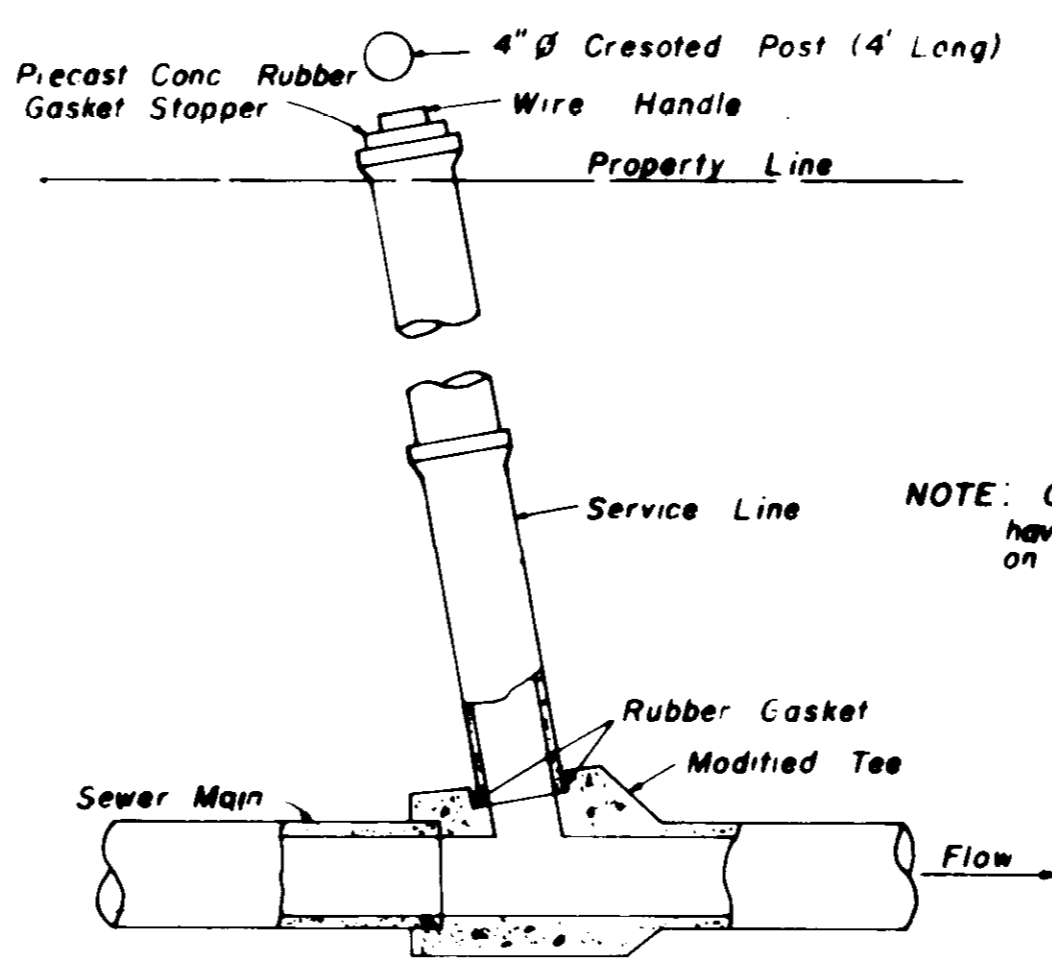
**ELEVATION  
CONCRETE COLLAR AT  
MANHOLE CONNECTION**



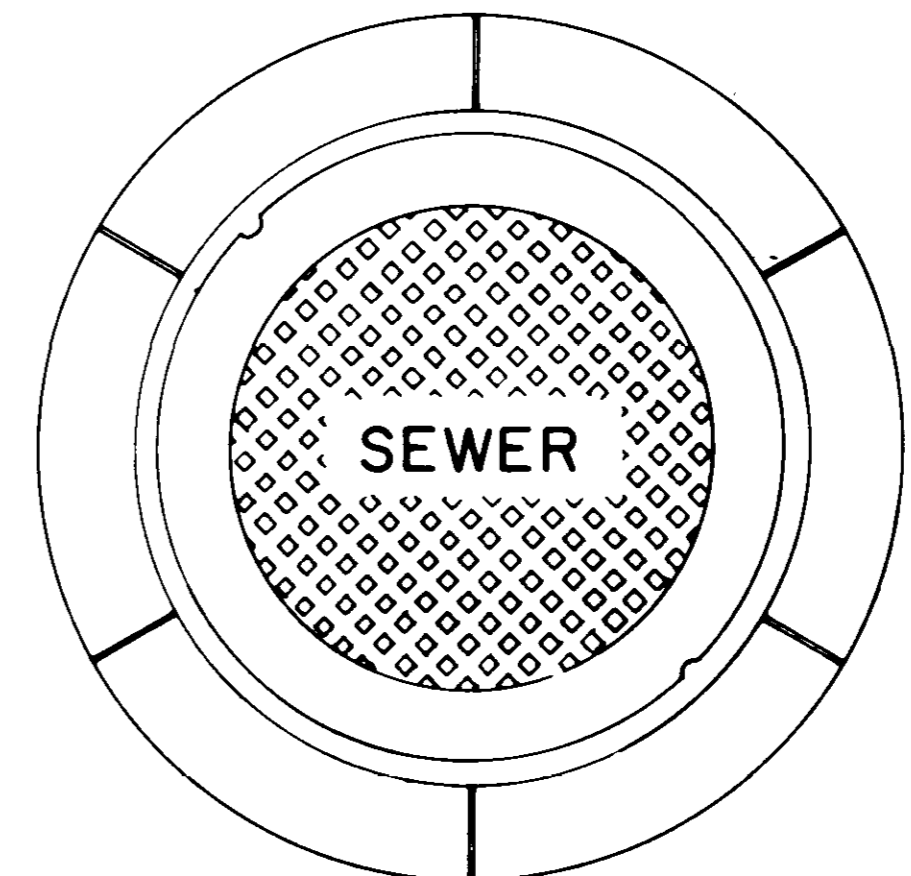
**BELL & SPIGOT TONGUE & GROOVE  
JOINT DETAILS**



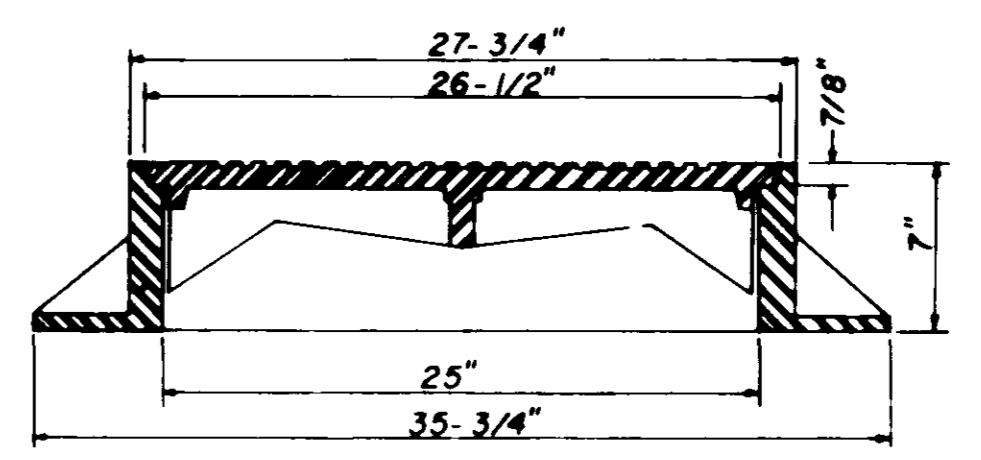
**TYPICAL SERVICE TO PROPERTY LINE  
WITH WYE JOINT**



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

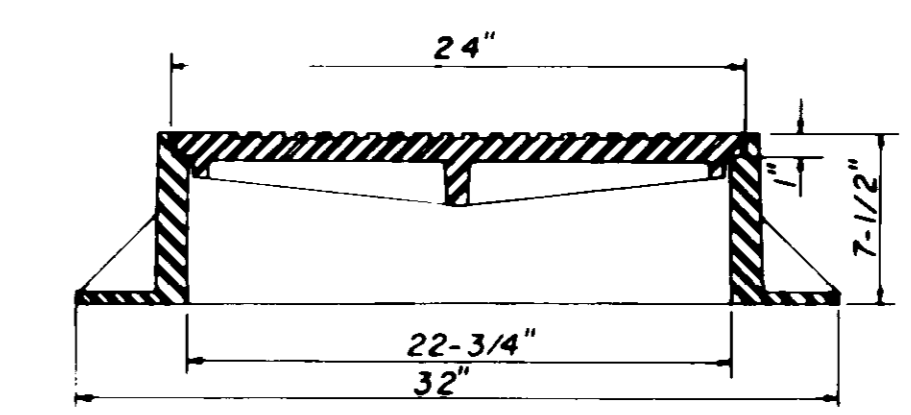


**PLAN  
MANHOLE CASTING**



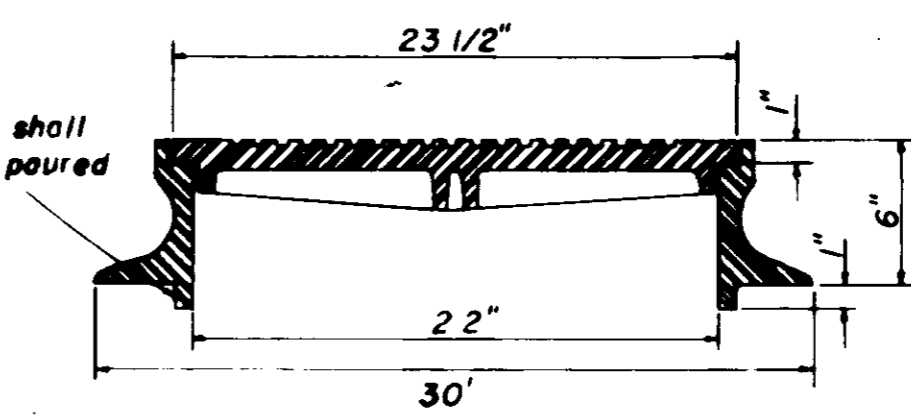
**SECTION  
TYPE \"A\" MANHOLE CASTING**

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.)



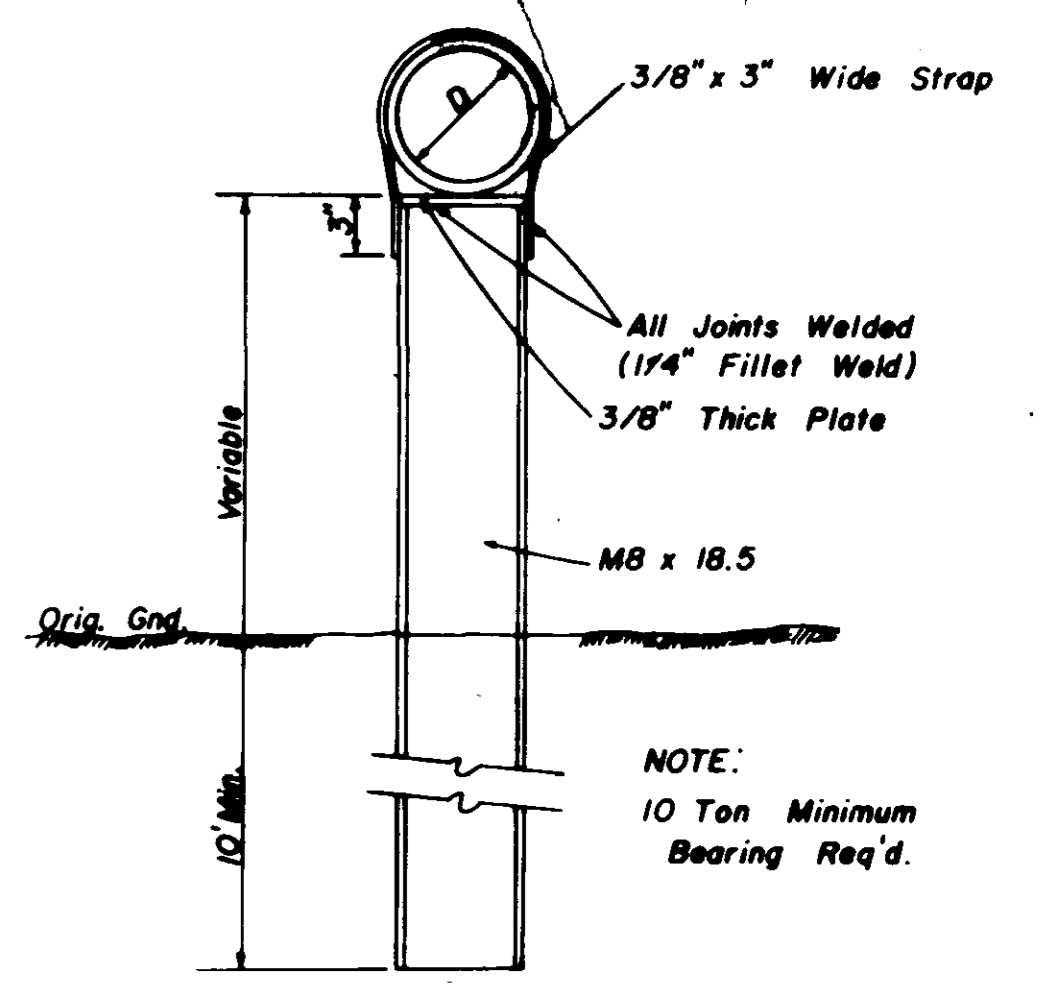
**SECTION  
TYPE \"B\" MANHOLE CASTING**

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.)

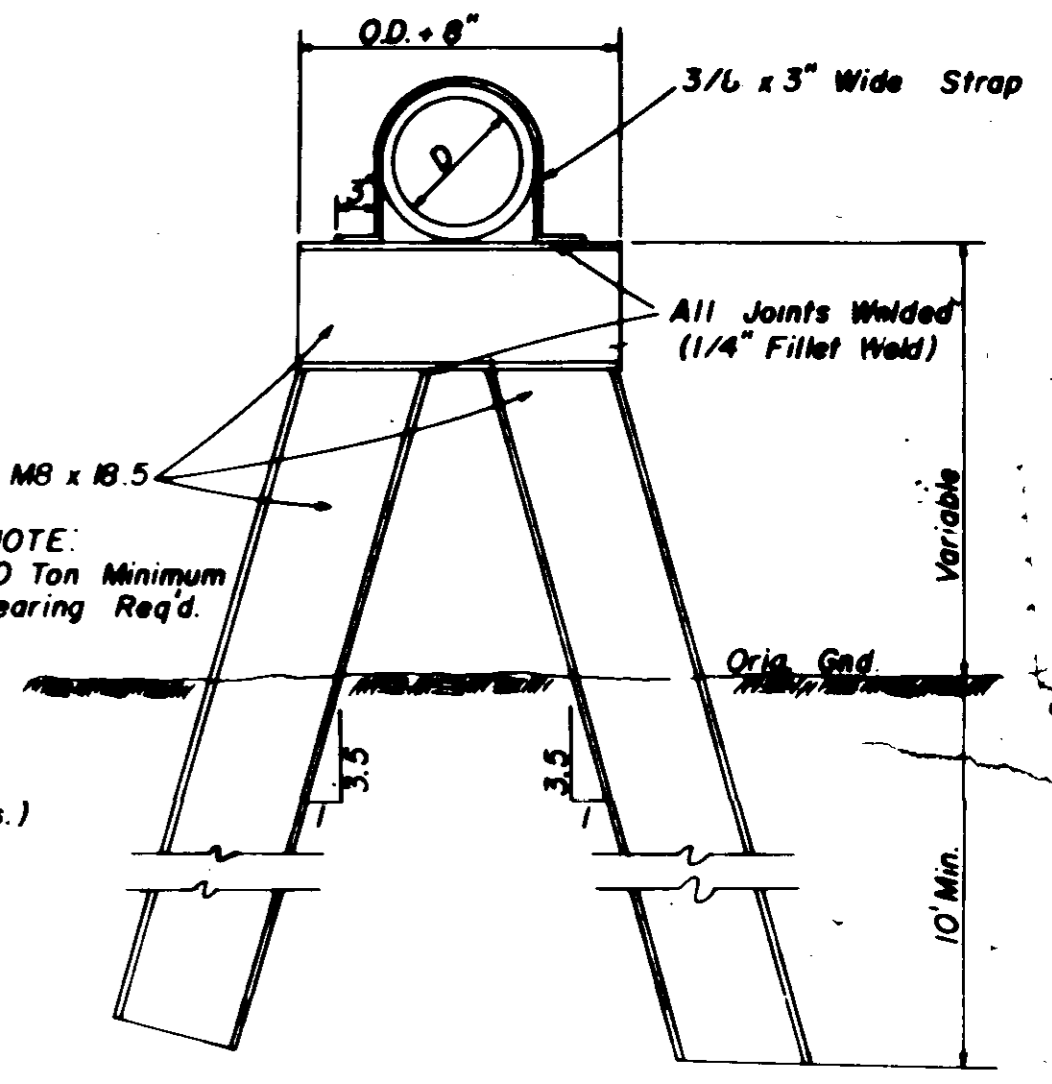


**SECTION  
TYPE \"C\" MANHOLE CASTING**

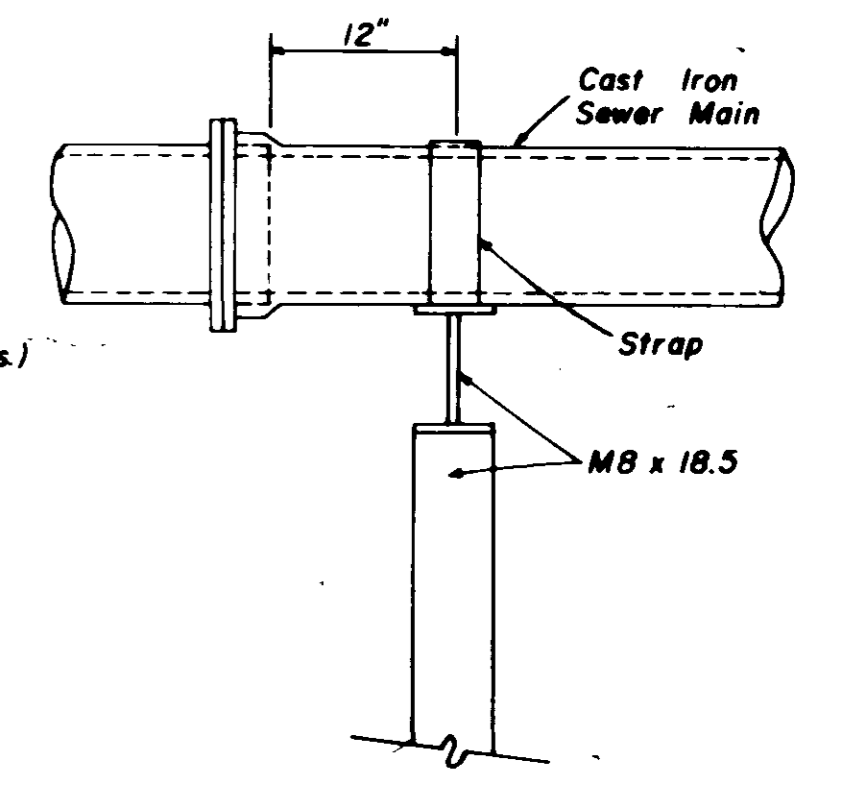
NOTE: 1. Use Type \"C\" Manhole Casting for Precast Manhole not in a Street R.O.W.  
2. Use Harper No. 8 (330 lbs.) or Neenah No. R-1779 (300 lbs.) or Vulcan No. VM-7 (330 lbs.)



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



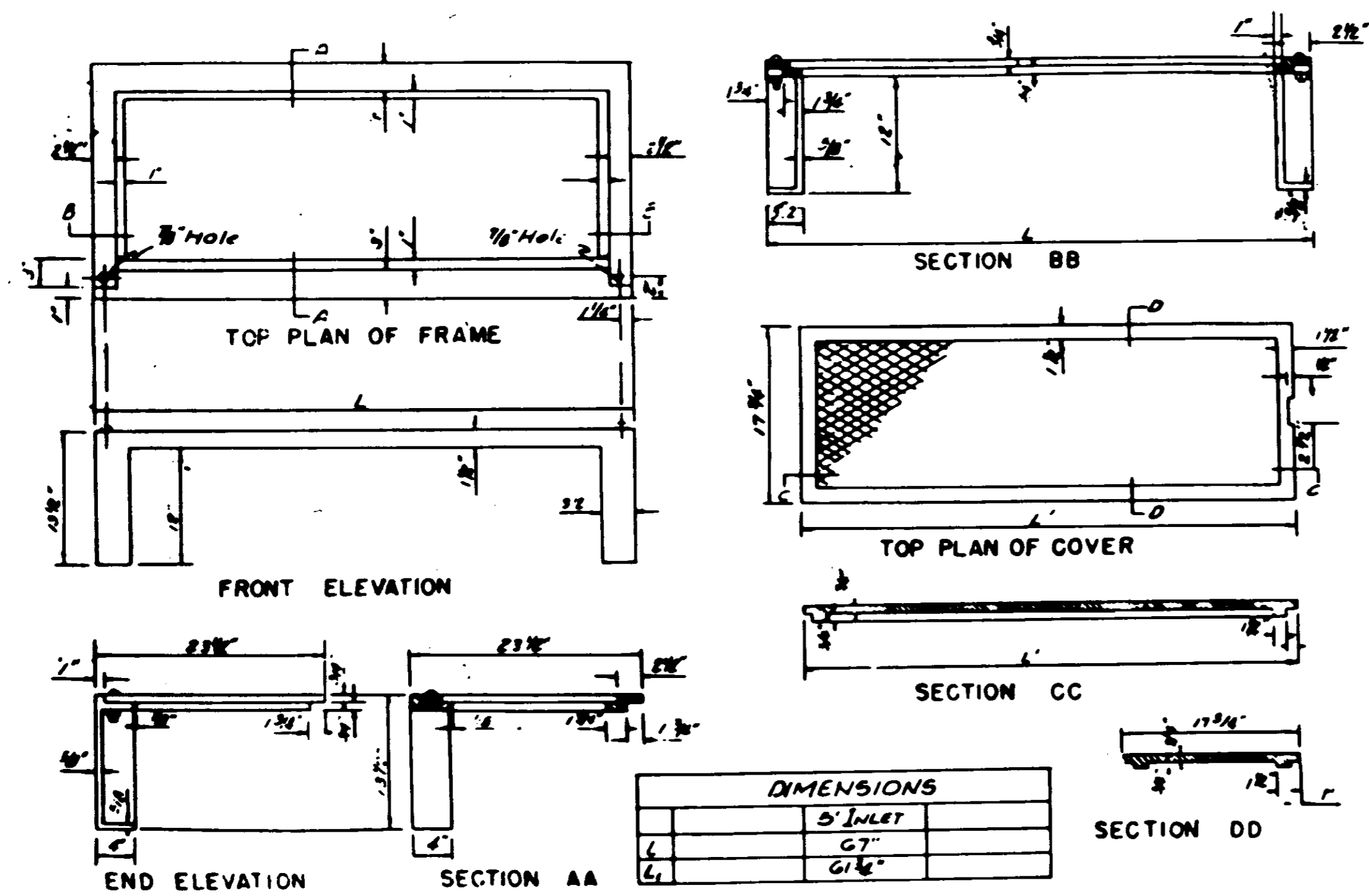
**DETAIL  
TYPE \"B\" PIER**



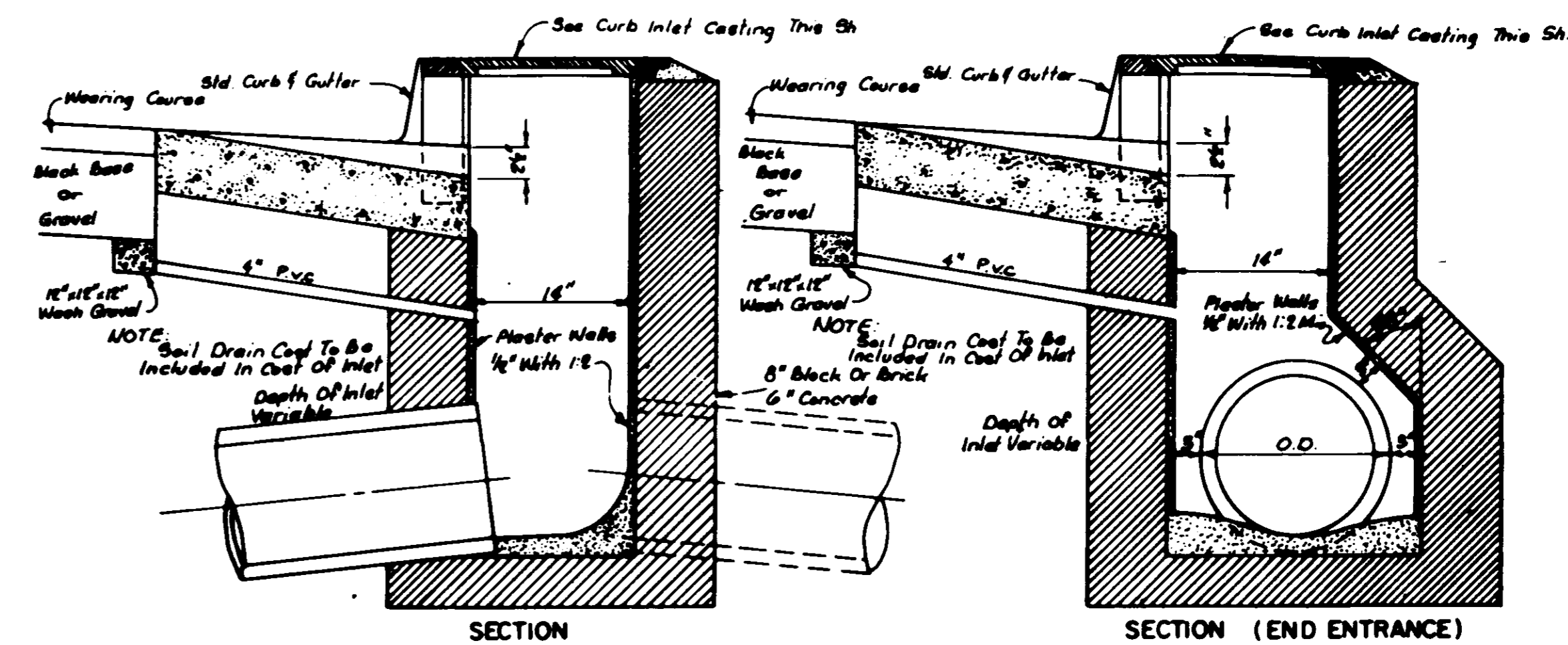
**SIDE ELEVATION  
TYPE \"B\" PIER**

**SANITARY SEWER  
STANDARD DETAILS**

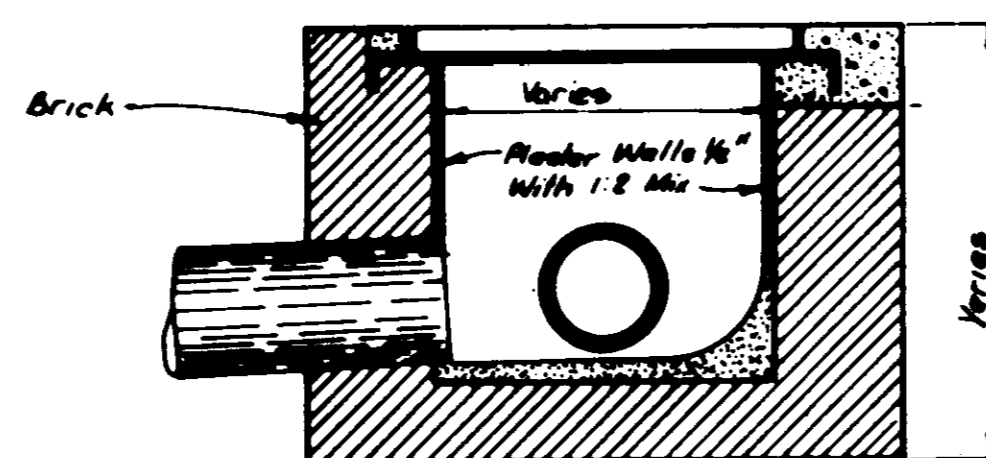
BROWNING INC.  
Consulting Engineers Jackson, Mississippi  
DRAWN BY: J.F. DATE: MAY, 1994  
CHECKED BY: P.L.B. SCALE: AS SHOWN 12 OF 13



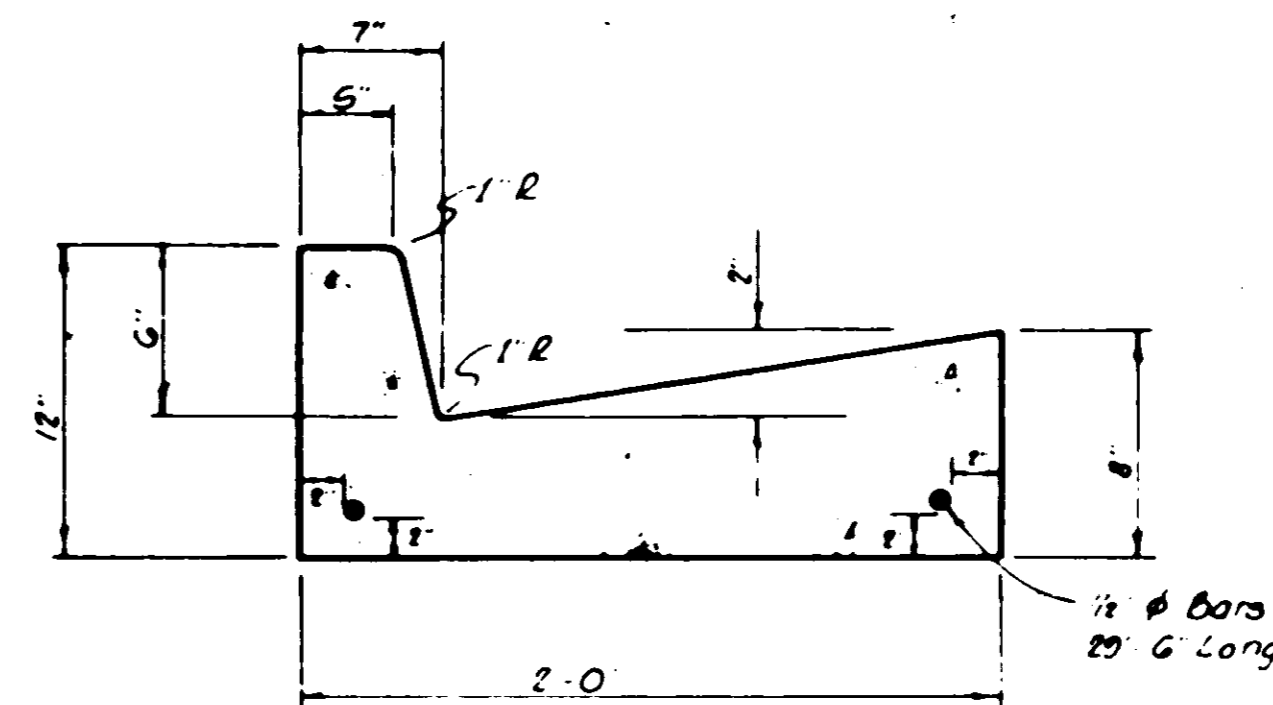
STANDARD CURB INLET CASTING



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. Date: None  
 Drawn By: J.F. Date: MAY, 1994 Sheet 13 of 13