

CONTRACT DRAWINGS

FOR

WENDOVER SUBDIVISION

PART ONE

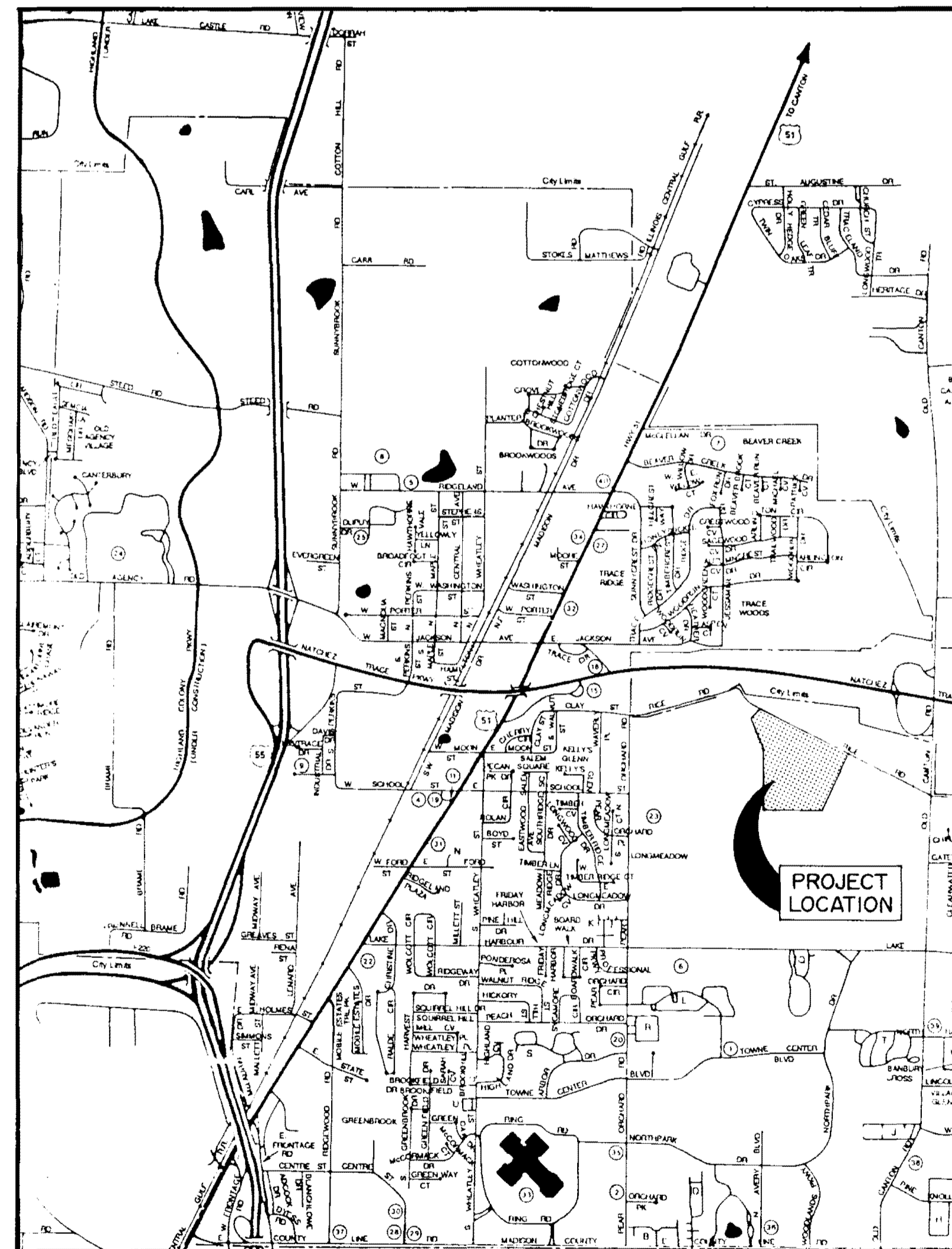
STREETS, DRAINAGE, SANITARY SEWER & WATER SYSTEM

INDEX OF DRAWINGS

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Drainage Details	11
Pumping Station Details	12

WATER DISTRIBUTION SYSTEM

ITEM	QUANTITY	UNIT
Connection to Existing Water Main	1	EA
12" PVC Water Main, C-900, Class 150	2,800	LF
8" PVC Water Main, C-900, Class 150	5,165	LF
6" PVC Water Main, C-900, Class 150	2,460	LF
8" Gate Valve with Box	9	EA
6" Gate Valve with Box	3	EA
8"x8" Cross	1	EA
8"x8"x8" Tee	3	EA
8"x8"x6" Tee	8	EA
8"x6"x8" Tee	1	EA
6" Fire Hydrant with Valve	9	EA
12" Plug	1	EA
8" Plug with 2" Blow-off	1	EA
Service Assembly	58	EA
3/4" Service Line	2,000	LF
Service Markers	58	EA
12"x12"x8" Tee	1	EA
6"x6"x6" Tee	2	EA
8"x6" Reducer	1	EA



VICINITY MAP

SANITARY SEWER

ITEM	QUANTITY	UNIT
Connection to Existing Force Main	1	EA
8" Gravity Sewer (0'-8')	2,285	LF
8" Gravity Sewer (8'-10')	600	LF
8" Gravity Sewer (10'-12')	80	LF
8" Gravity Sewer (12'-14')	70	LF
8" Gravity Sewer (14'-16')	187	LF
8" Gravity Sewer (16'-18')	75	LF
Undercut and Select Backfill	550	CY
48" Manhole (0'-8')	13	EA
48" Manhole (8'-10')	6	EA
48" Manhole (12'-14')	1	EA
48" Manhole (16'-18')	1	EA
Service Tees	58	EA
Service Line (6")	1,500	LF
Service Markers	58	EA
Pump Station	1	EA

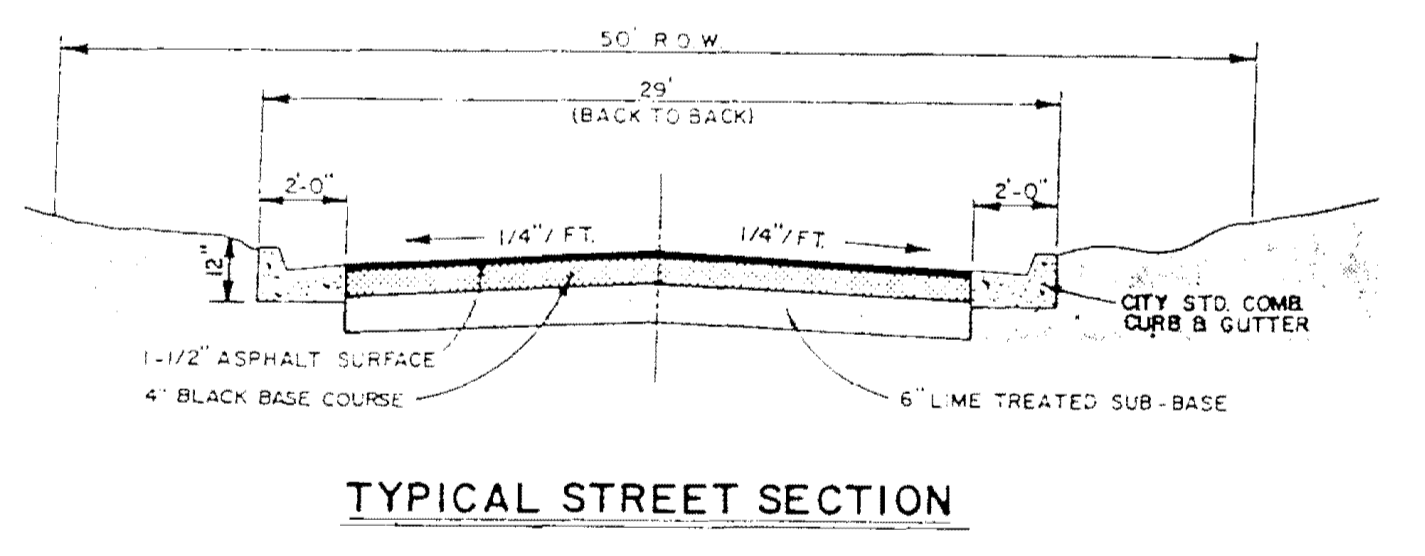
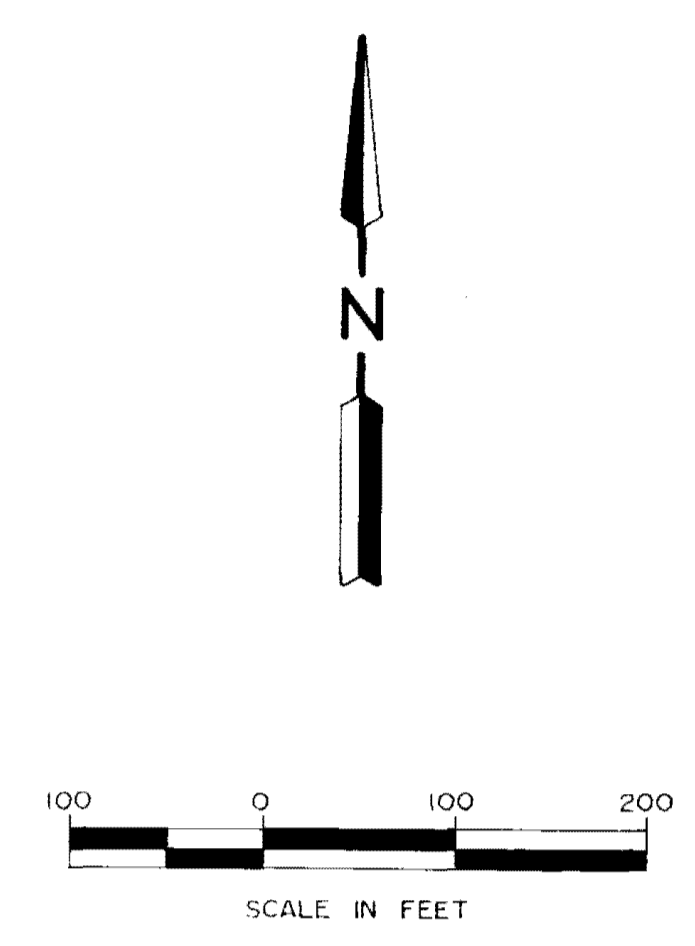
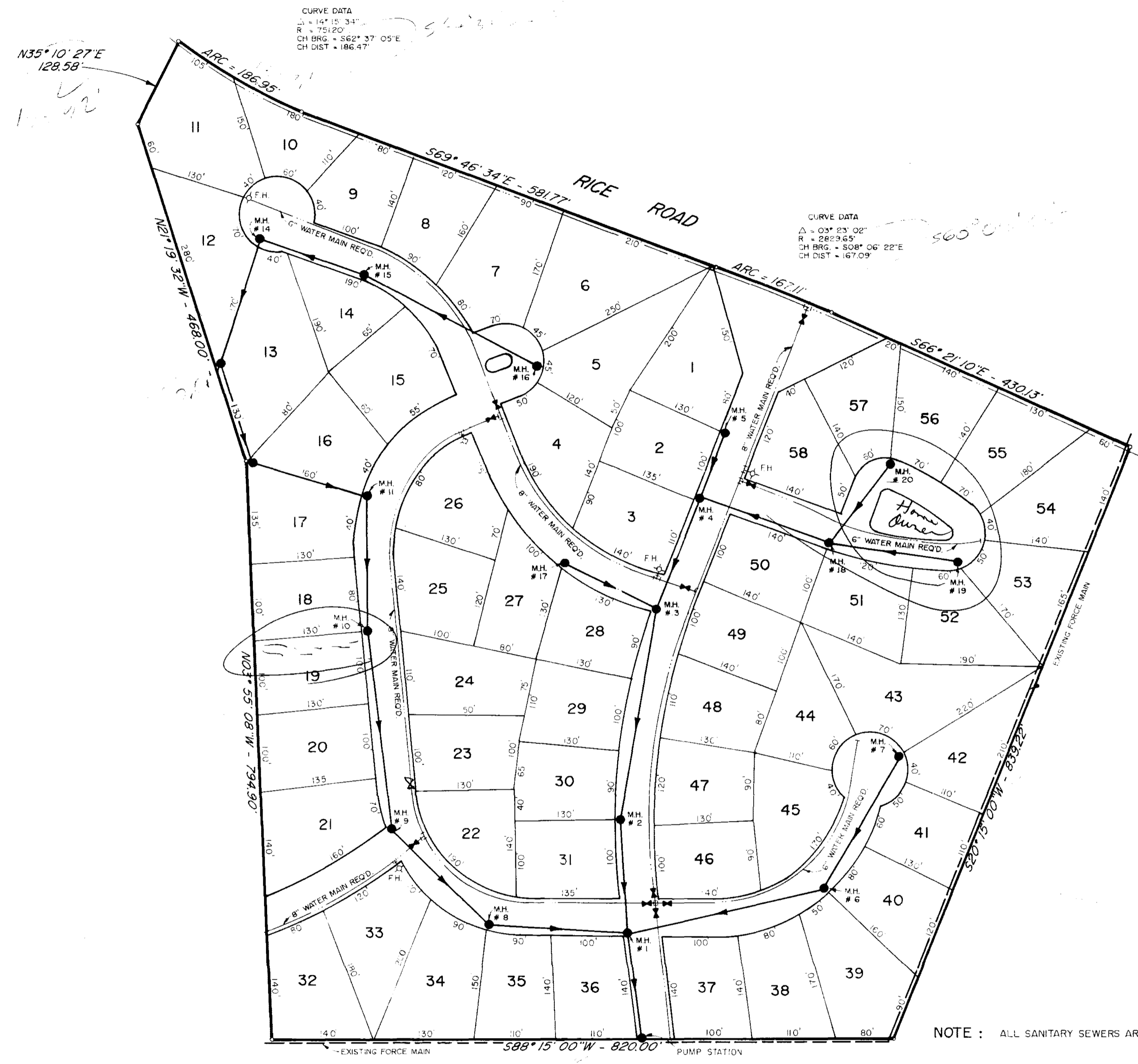
STREETS AND DRAINAGE

ITEM	QUANTITY	UNIT
Clearing and Grubbing	5.5	AC
Excavation - Common	8,500	CY
Excavation - Street Undercut and Select Backfill	3,000	CY
Embankment	1,000	CY
Excavation - Ditch	500	CY
Lime Treated Subbase (Includes 6" Subgrade Prep.)	12,500	SY
3" Asphaltic Base	12,500	SY
14" Asphalt Surface	12,500	SY
Concrete Curb and Gutter	8,080	LF
Curb Inlets	20	EA
15" Reinforced Concrete Pipe	741	LF
18" Reinforced Concrete Pipe	808	LF
24" Reinforced Concrete Pipe	634	LF
16" Reinforced Concrete Pipe	234	LF
36" Reinforced Concrete Pipe	190	LF
51"x31" Reinforced Concrete Arch Pipe	786	LF
18" Flared End Section	1	EA
30" Flared End Section	1	EA
51"x31" Flared End Section	4	EA
8"x8' Junction Box	1	EA
Rock-Rip-Rap	8	TON
Storm Manholes	3	EA

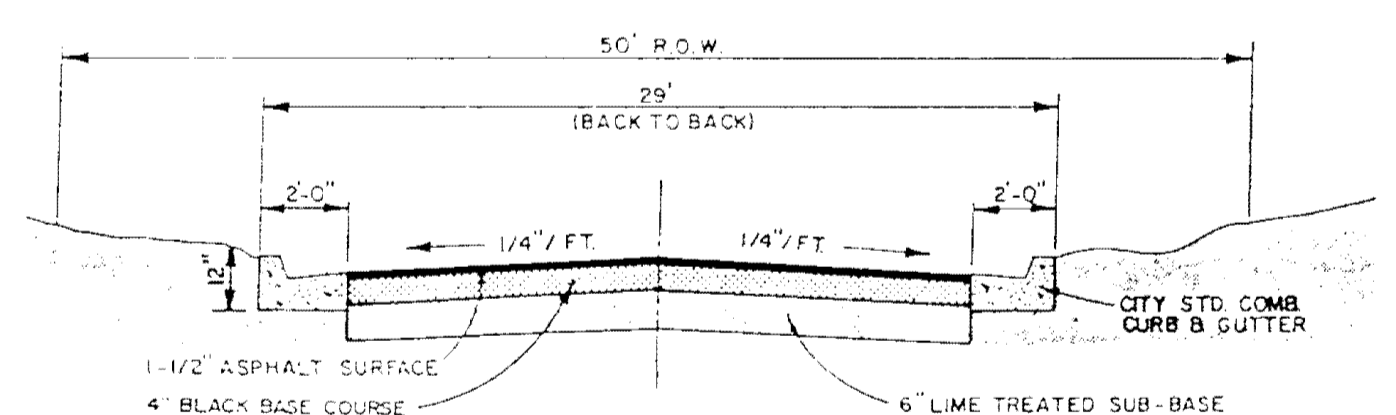
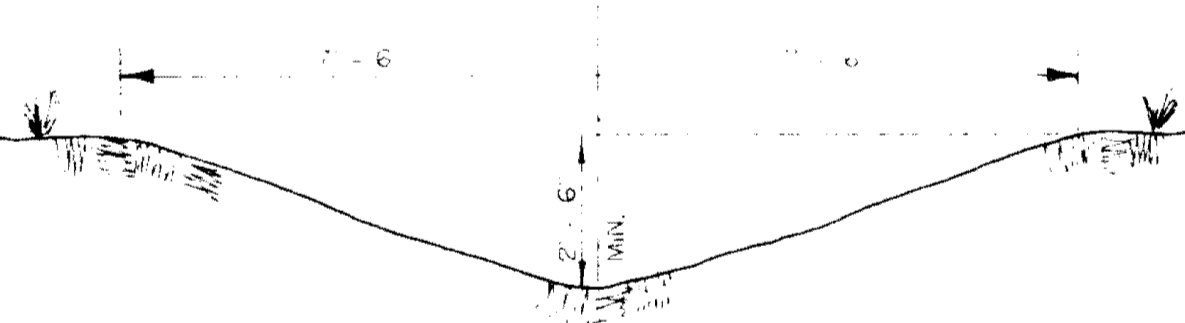
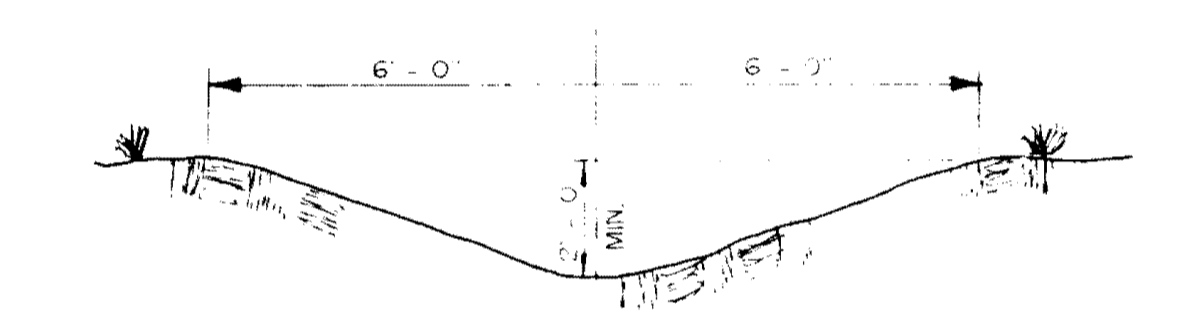
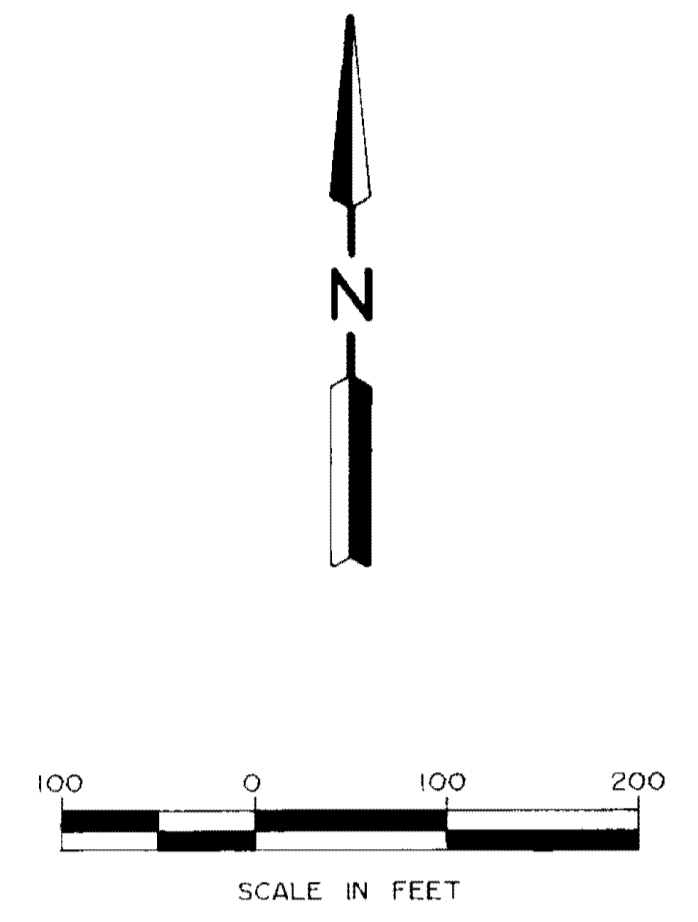
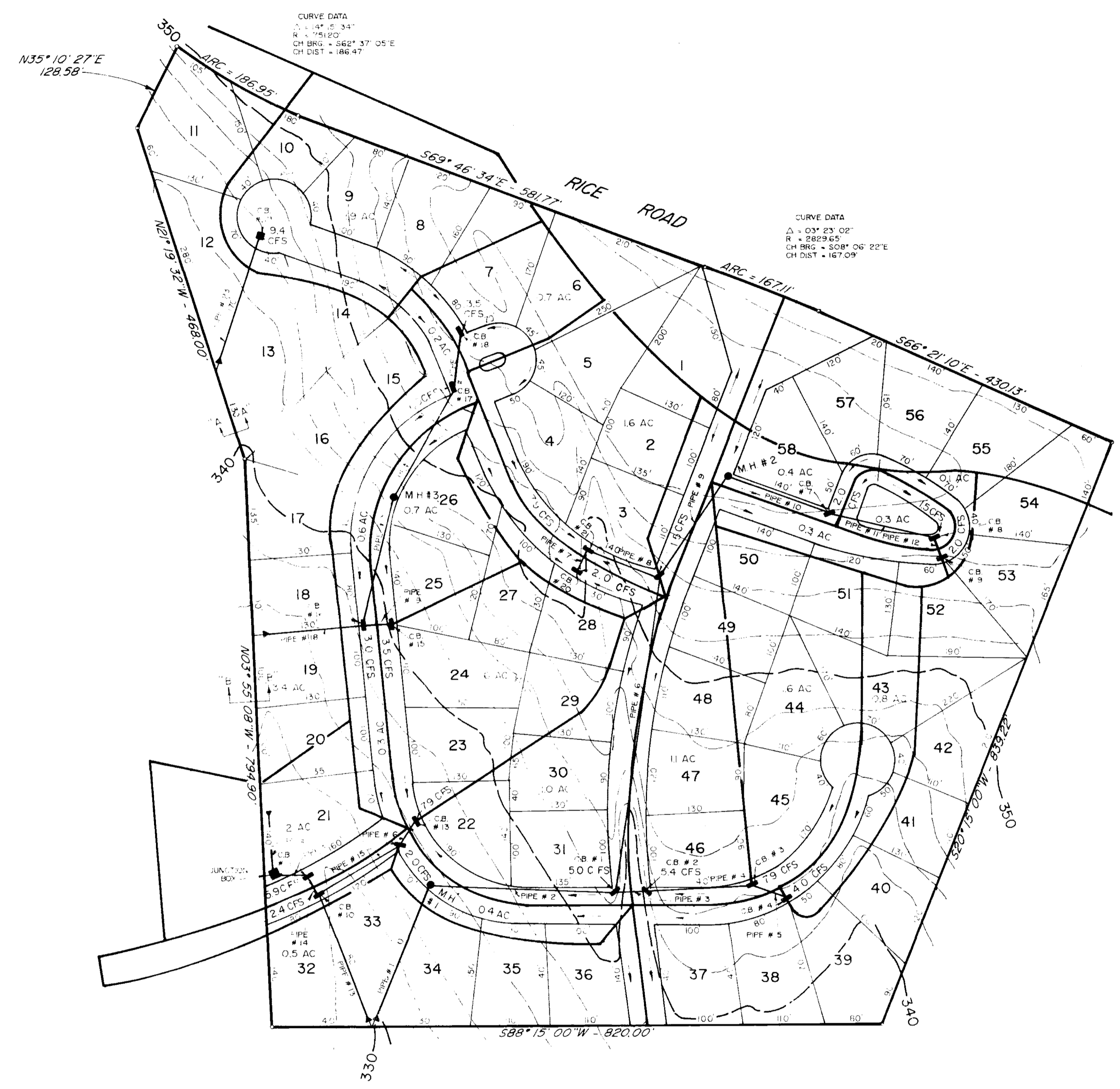
GRASS PLANTING

ITEM	QUANTITY	UNIT
Seeding	2.0	AC

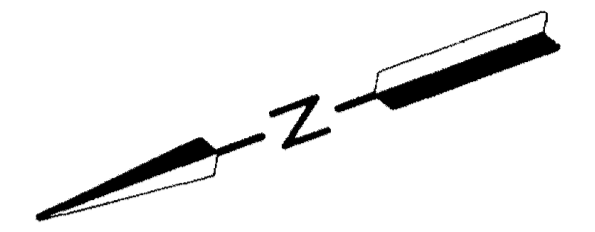
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At
Mississippi



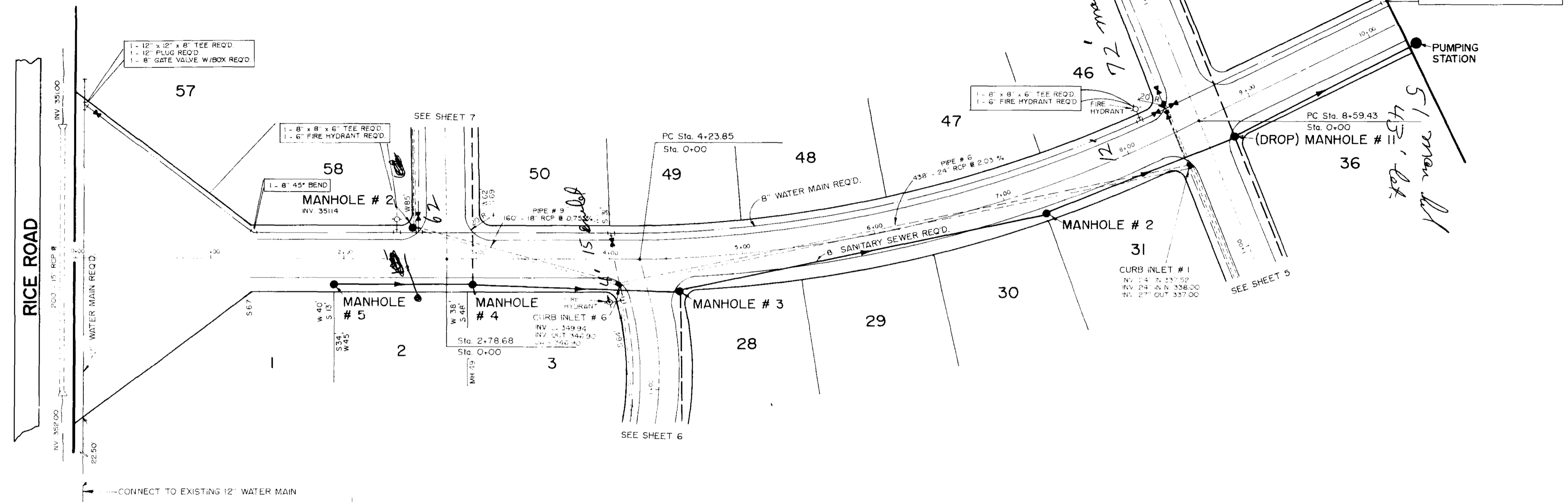
WENDOVER SUBDIVISION		
GENERAL LAYOUT		
BROWNING INC. Consulting Engineers Jackson, Mississippi		
Designed By : P.L.B.	Scale : AS SHOWN	Sheet 2 of 12
Drawn By : J.F.	Date : FEB, 1994	



WENDOVER SUBDIVISION		
DRAINAGE LAYOUT		
BROWNING INC. Consulting Engineers Jackson, Mississippi		
Designed By: P.L.B.	Scale: AS SHOWN	Sheet 3 of 12
Drawn By: J.P.	Date: 8/2/04	



PLAN
 SUPERVISED
 NOTE BOOK
 NO. _____
 DATE _____



PROFILE
 SUPERVISED
 NOTE BOOK
 NO. _____
 DATE _____

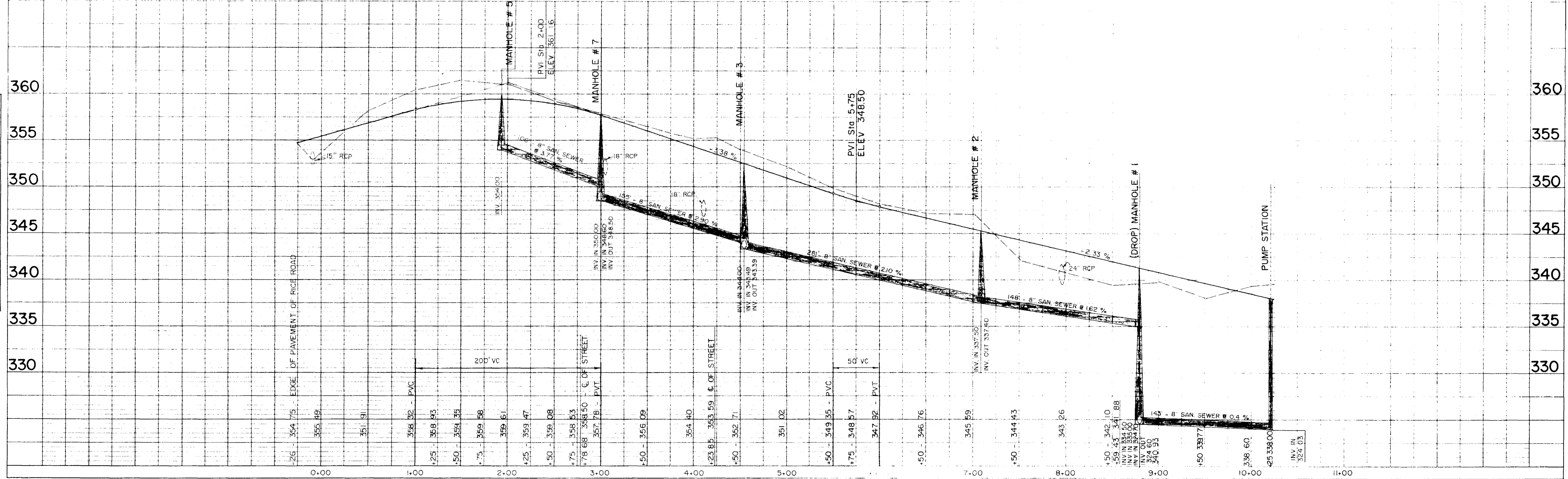
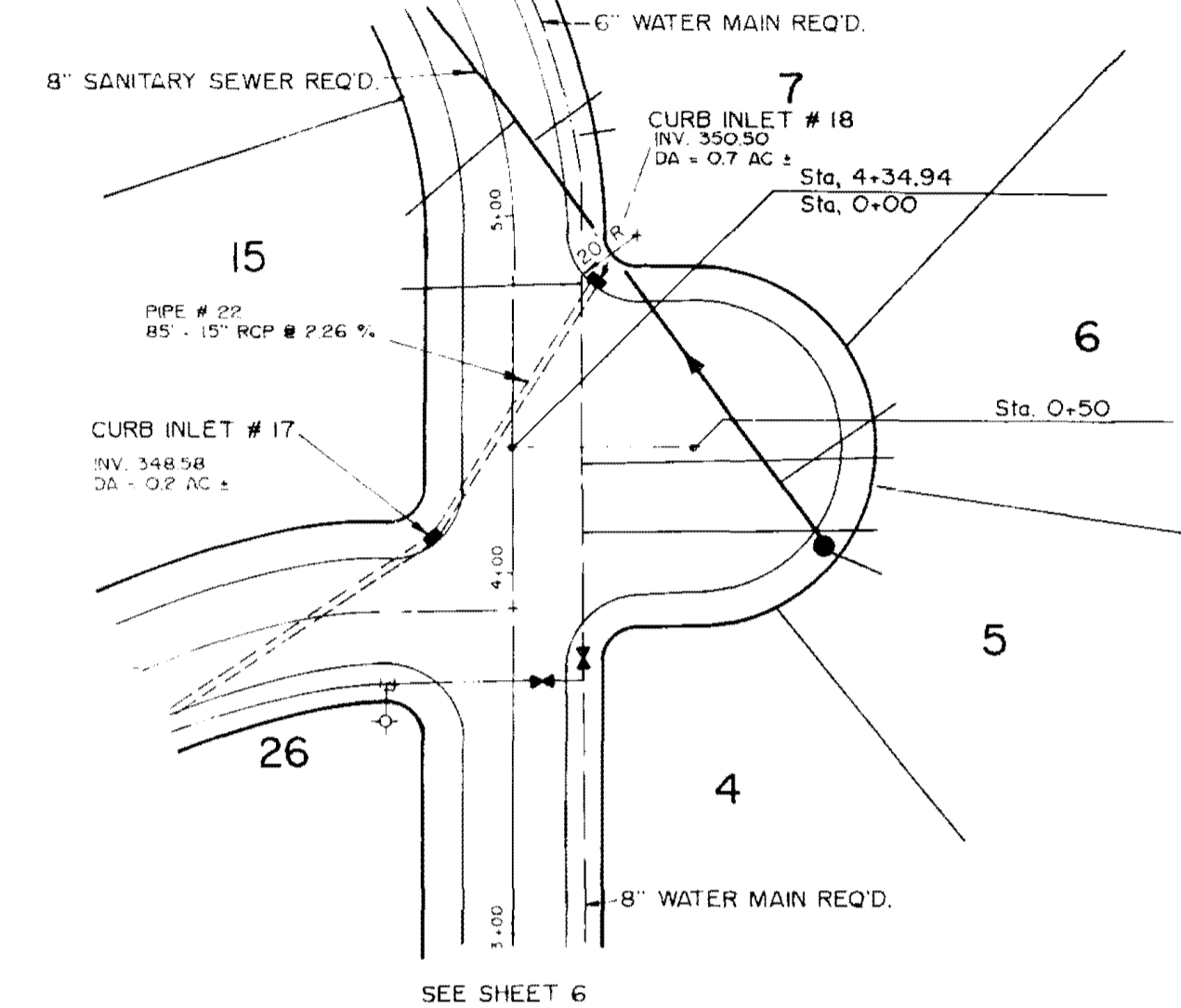
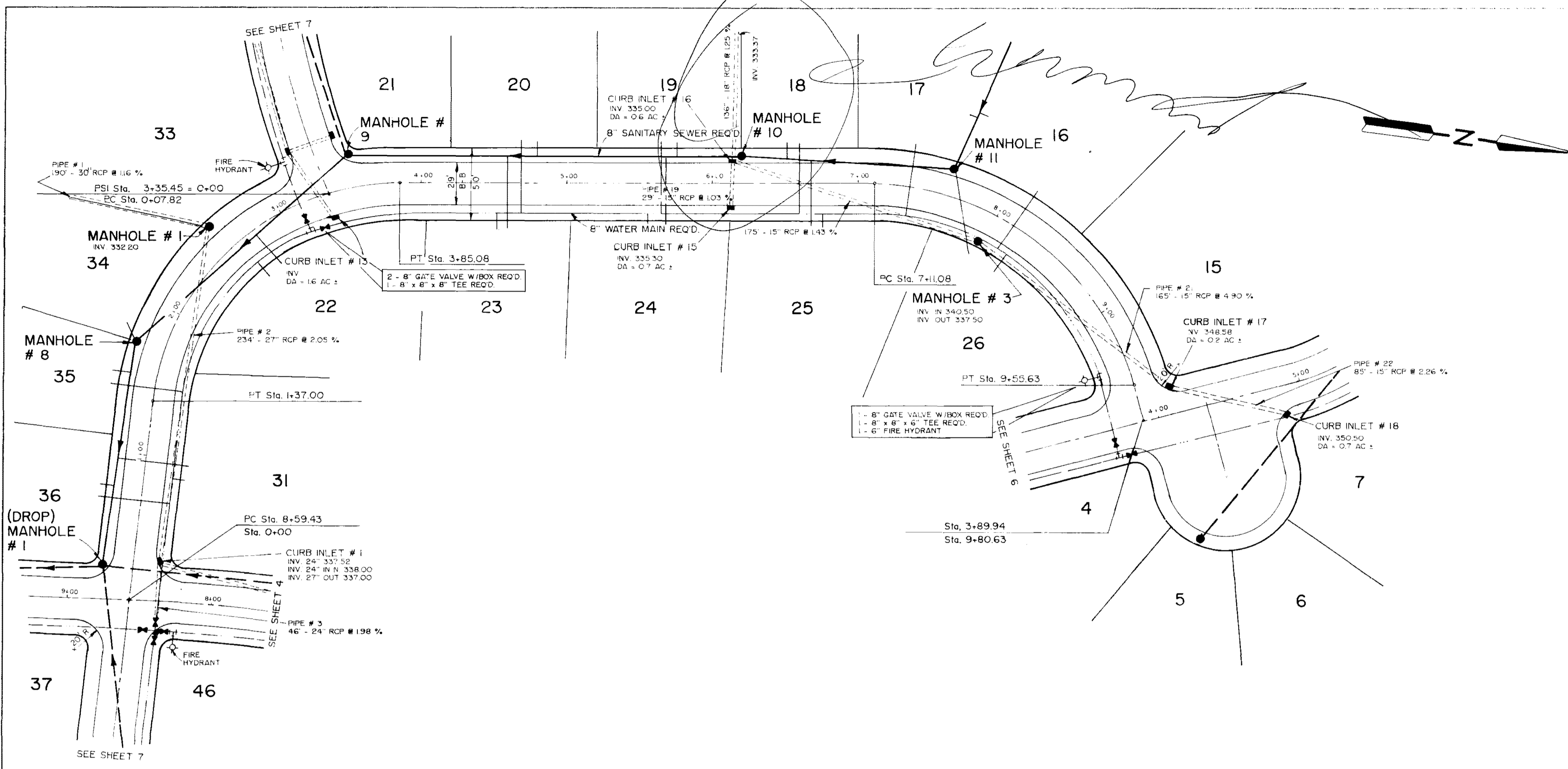


PLATE 1-SINGLE PLAN AND PROFILE

REV.	DATE	BY	DESCRIPTION

PLAN
SURVEYED BY
NOTED
NOTE BOOK NO.
ALIGNMENT CHECKED BY
STRUCTURE NOTATIONS CHECKED BY
No.



REV.	DATE	BY	DESCRIPTION

PROFILE
SURVEYED BY
NOTED
NOTE BOOK NO.
ALIGNMENT CHECKED BY
STRUCTURE NOTATIONS CHECKED BY
No.

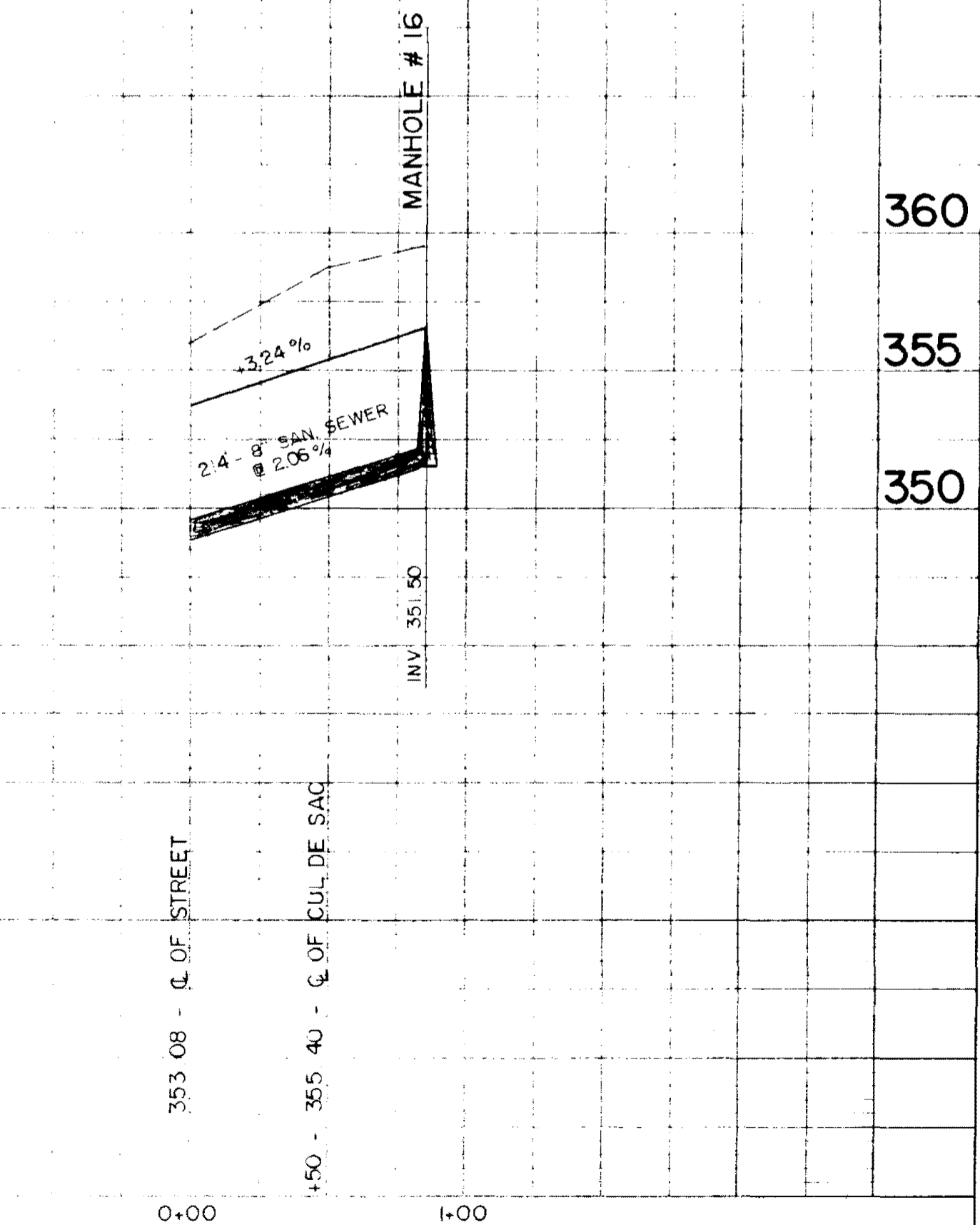
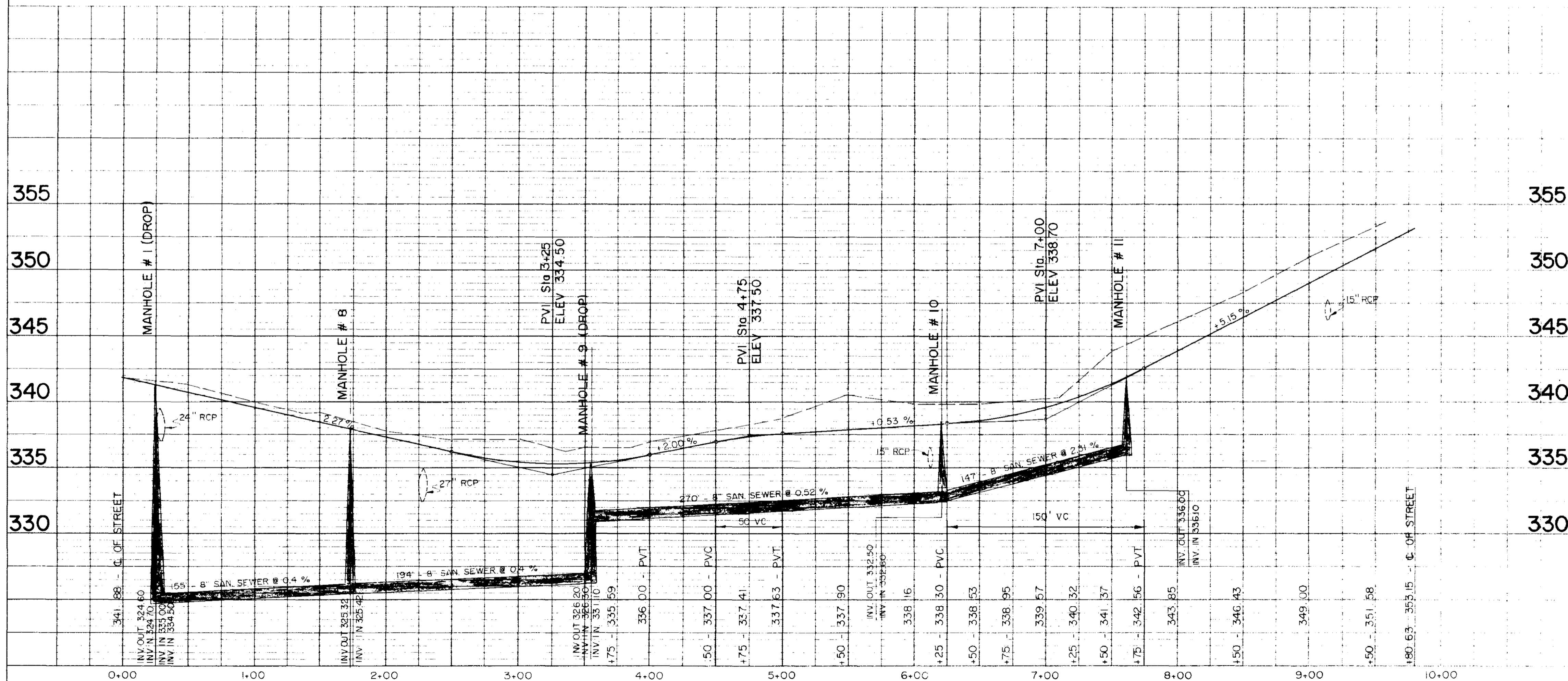
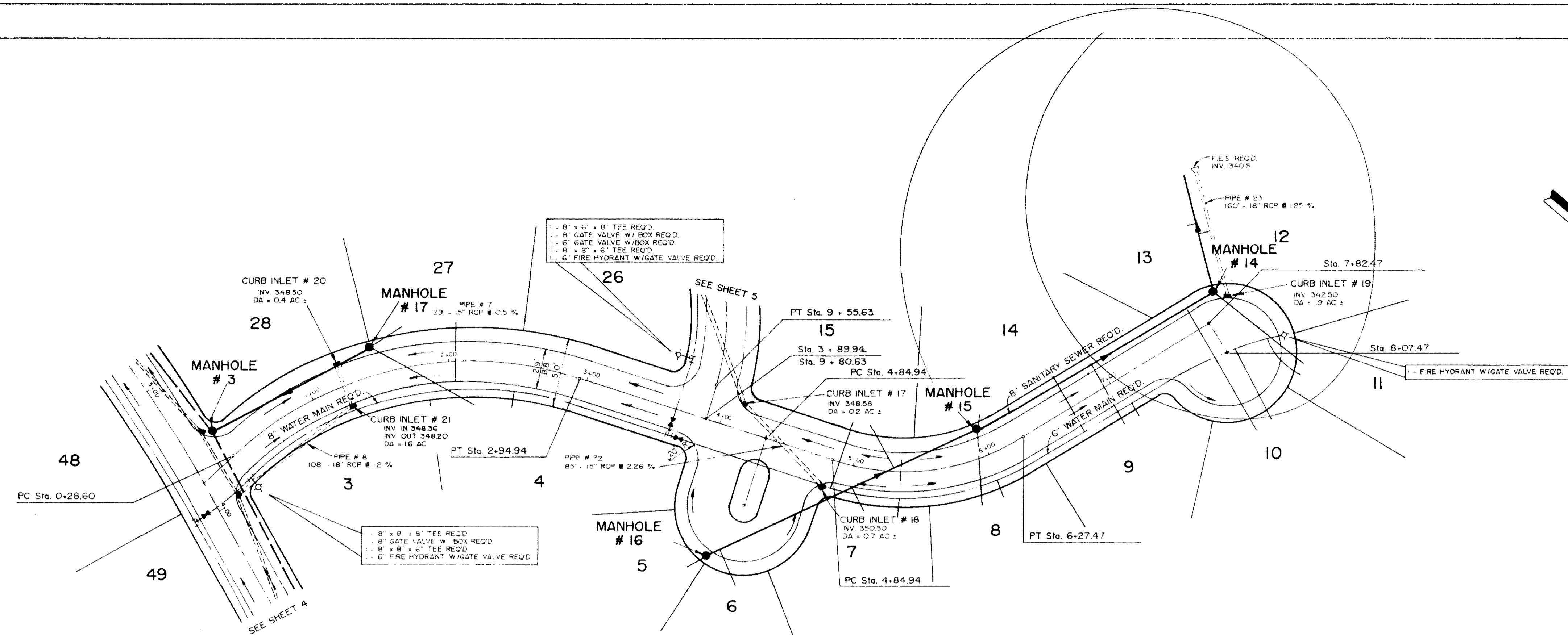
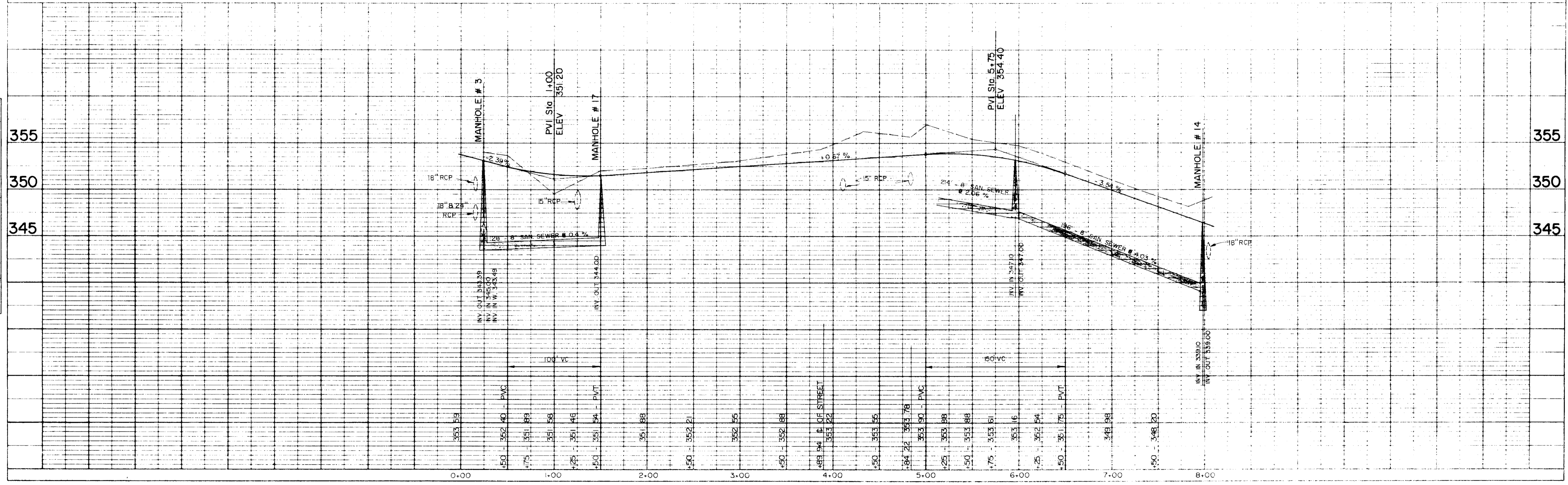


PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
MILWAUKEE
PRINTED IN U.S.A.

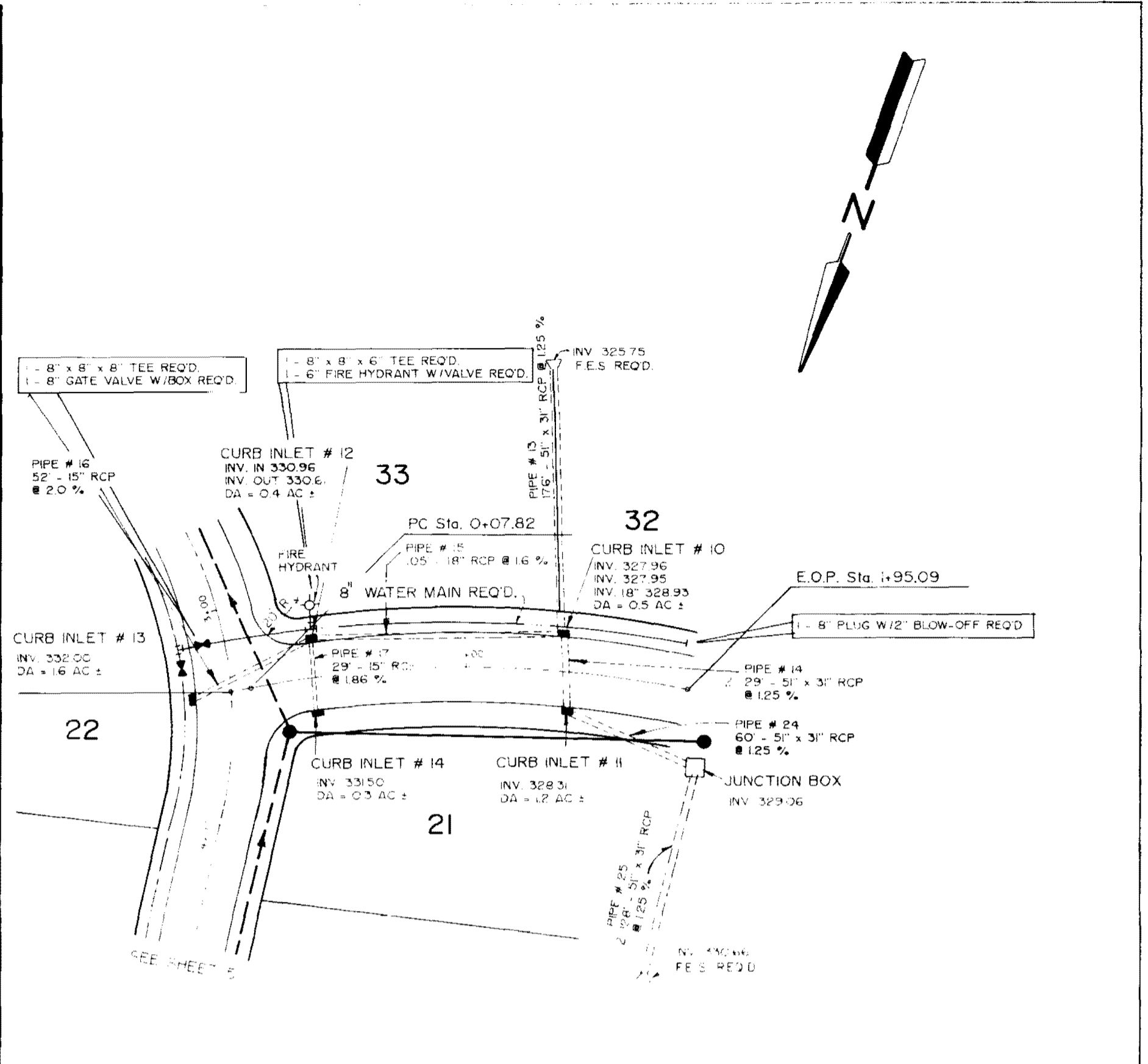
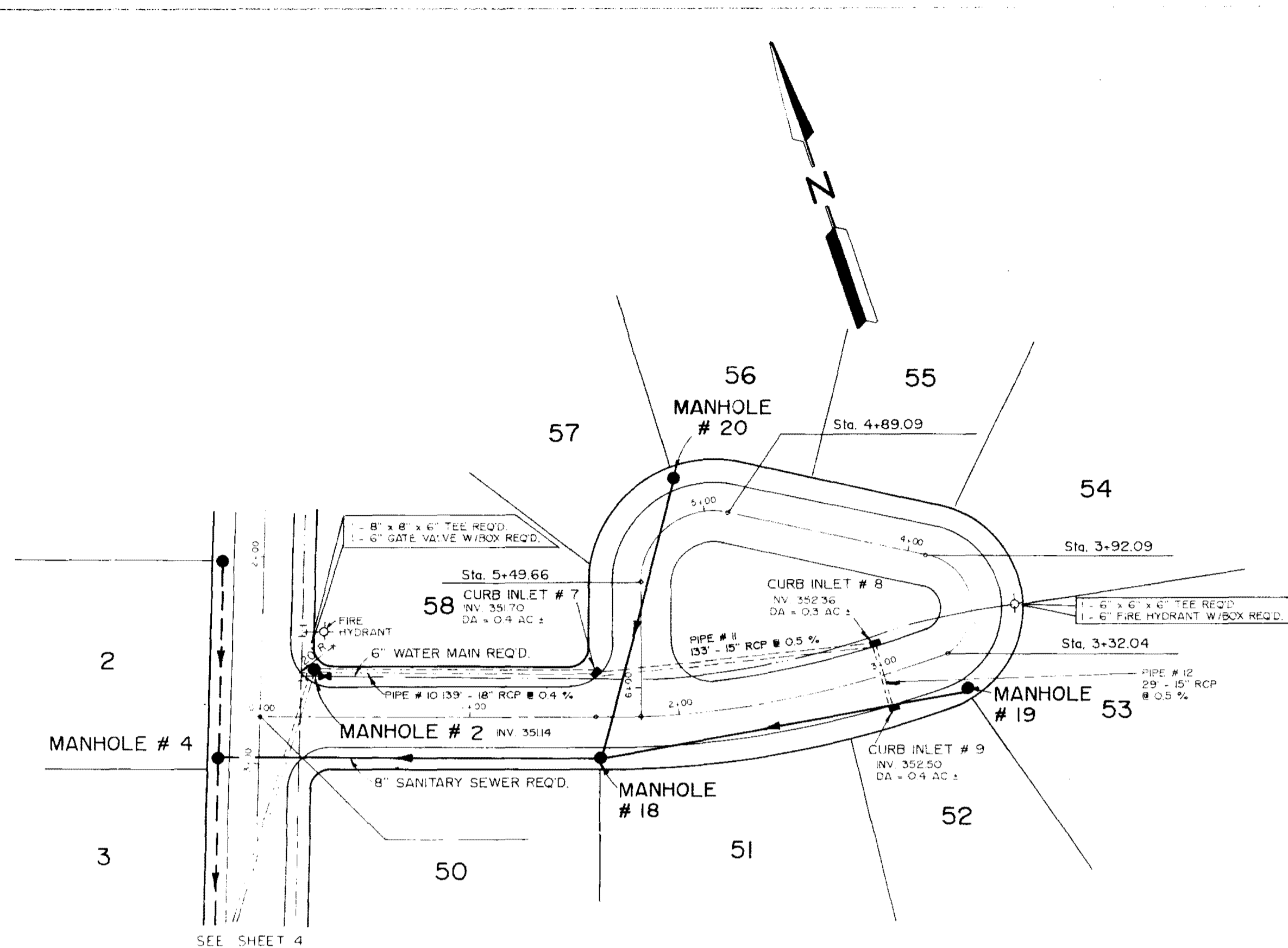
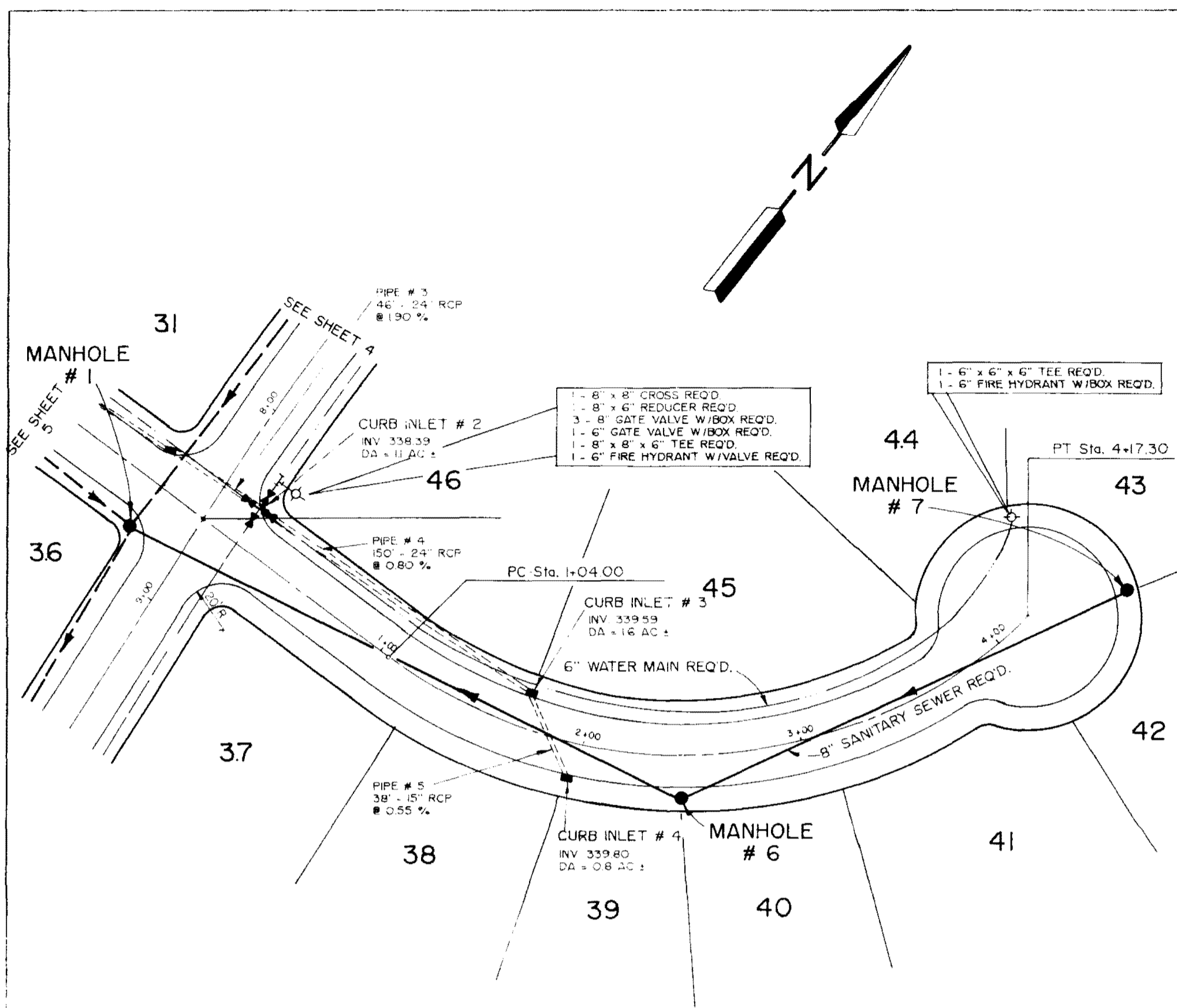
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BY	
SURVEYED	
NOTE BOOK	
ALIGNMENT CHECKED	
NO. OF STAKES CHECKED	
NO.	



DATE	
BY	
SURVEYED	
NOTE BOOK	
GRADES CHECKED	
NO. OF STAKES CHECKED	
NO.	



PLAN
 SURVEYED BY
 NOTE BOOK ALIGNMENT CHECKED
 NO. OF WAY CHECKED



PROFILE
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 NOTE BOOK GRADES CHECKED
 B.M. NOTED
 STRENGTH NOTATIONS CHECKED

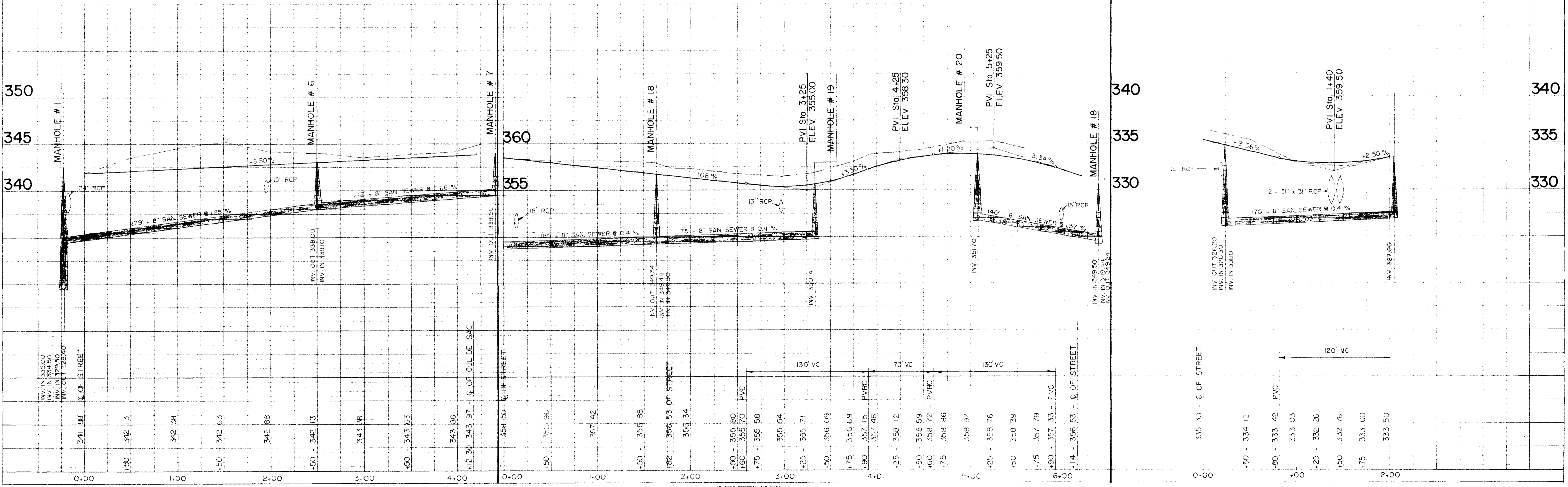
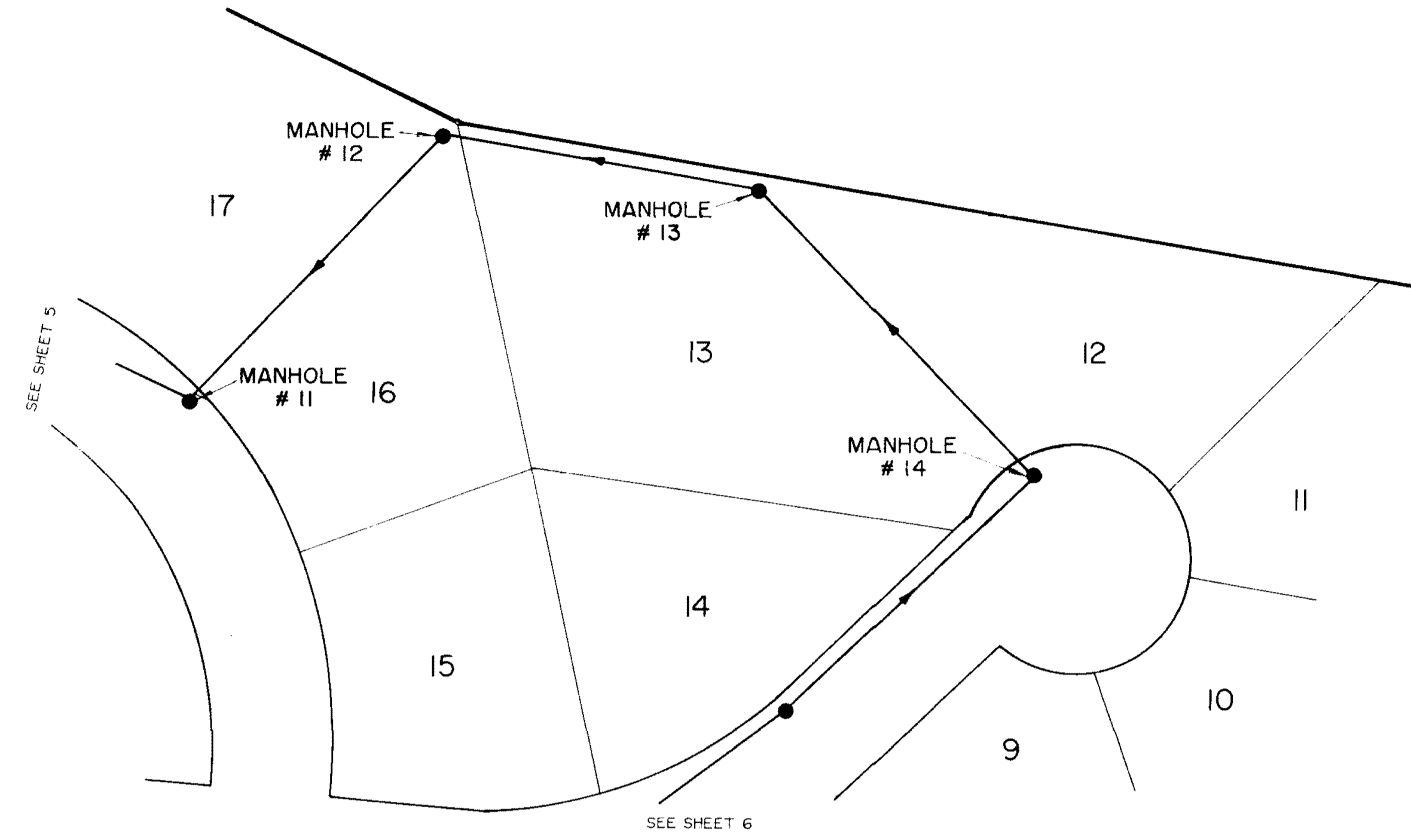
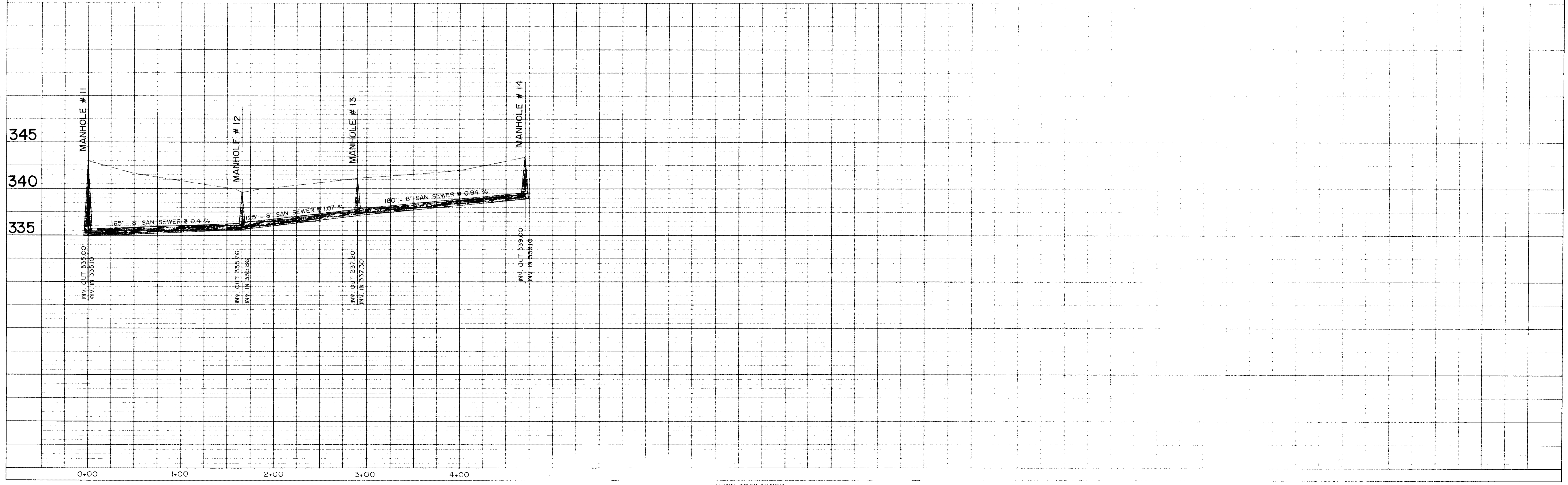


PLATE 1 - SINGLE PLAN AND PROFILE - FULL LINE

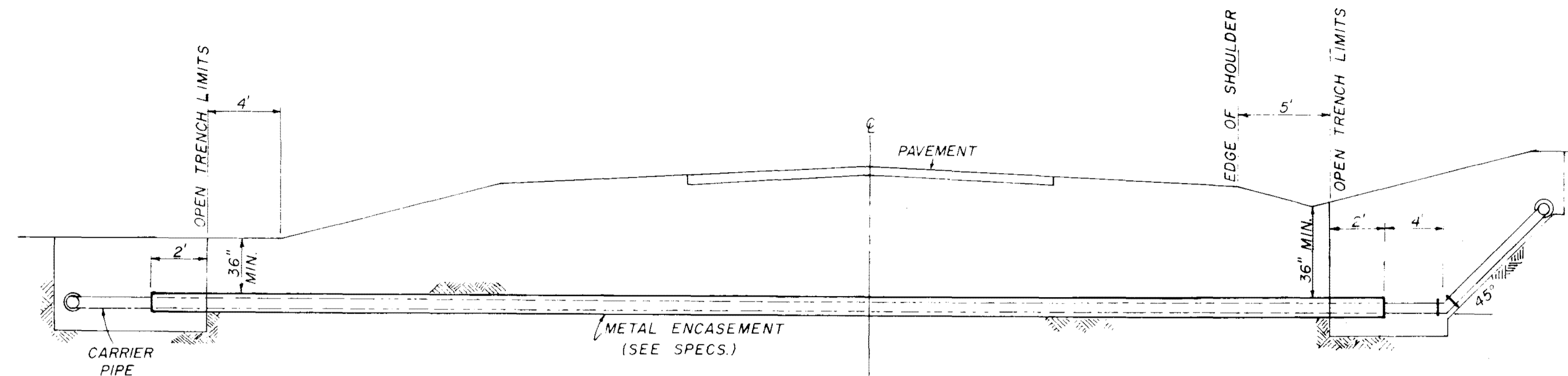
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 SURVED BY: _____ DATE: _____
 NOTE BOOK ALIGNMENT CHECKED
 No. _____ BY: _____
 STRUCTURE MODIFICATIONS CHECKED



PROFILE
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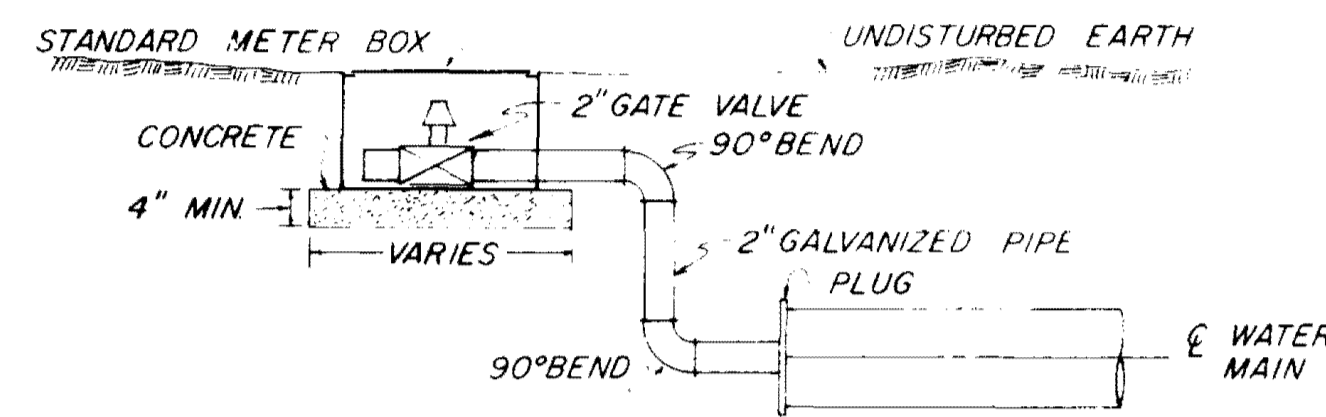


FEDERAL ROAD SHEET
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 TELETYPE
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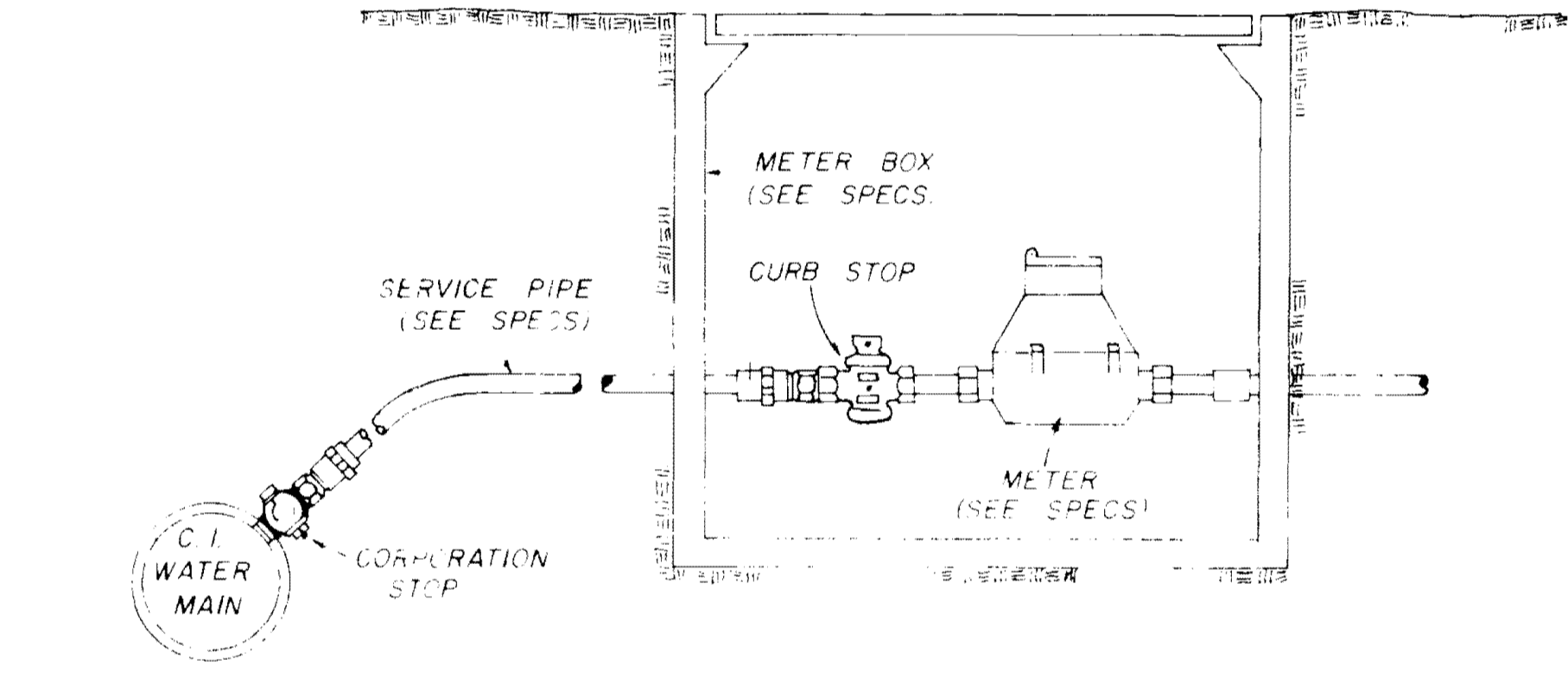


NOTE: COMPENSATION FOR CONCRETE THRUST BLOCKS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.

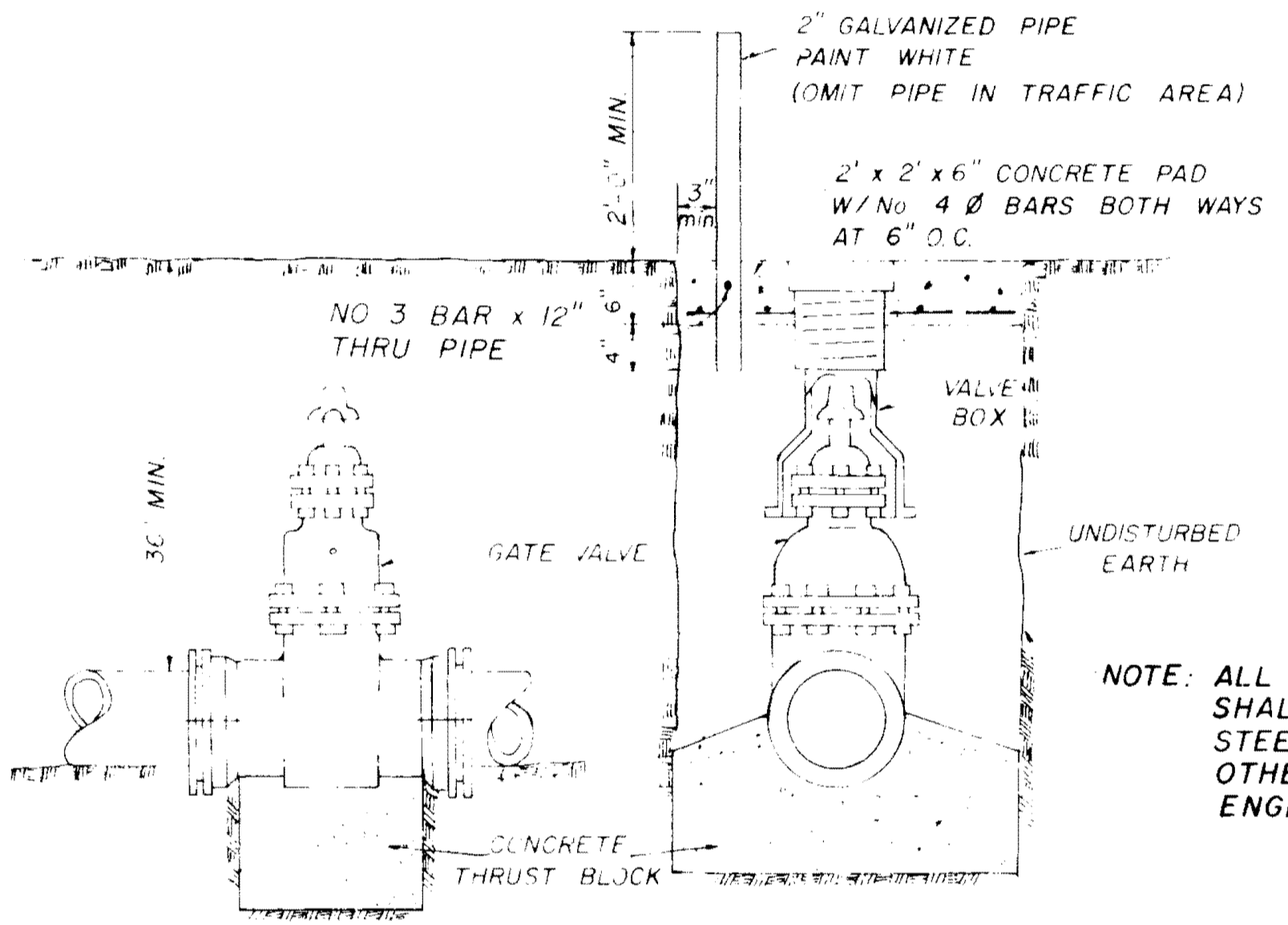
TYPICAL CASED CROSSING



TYPICAL 2" BLOW-OFF DETAIL



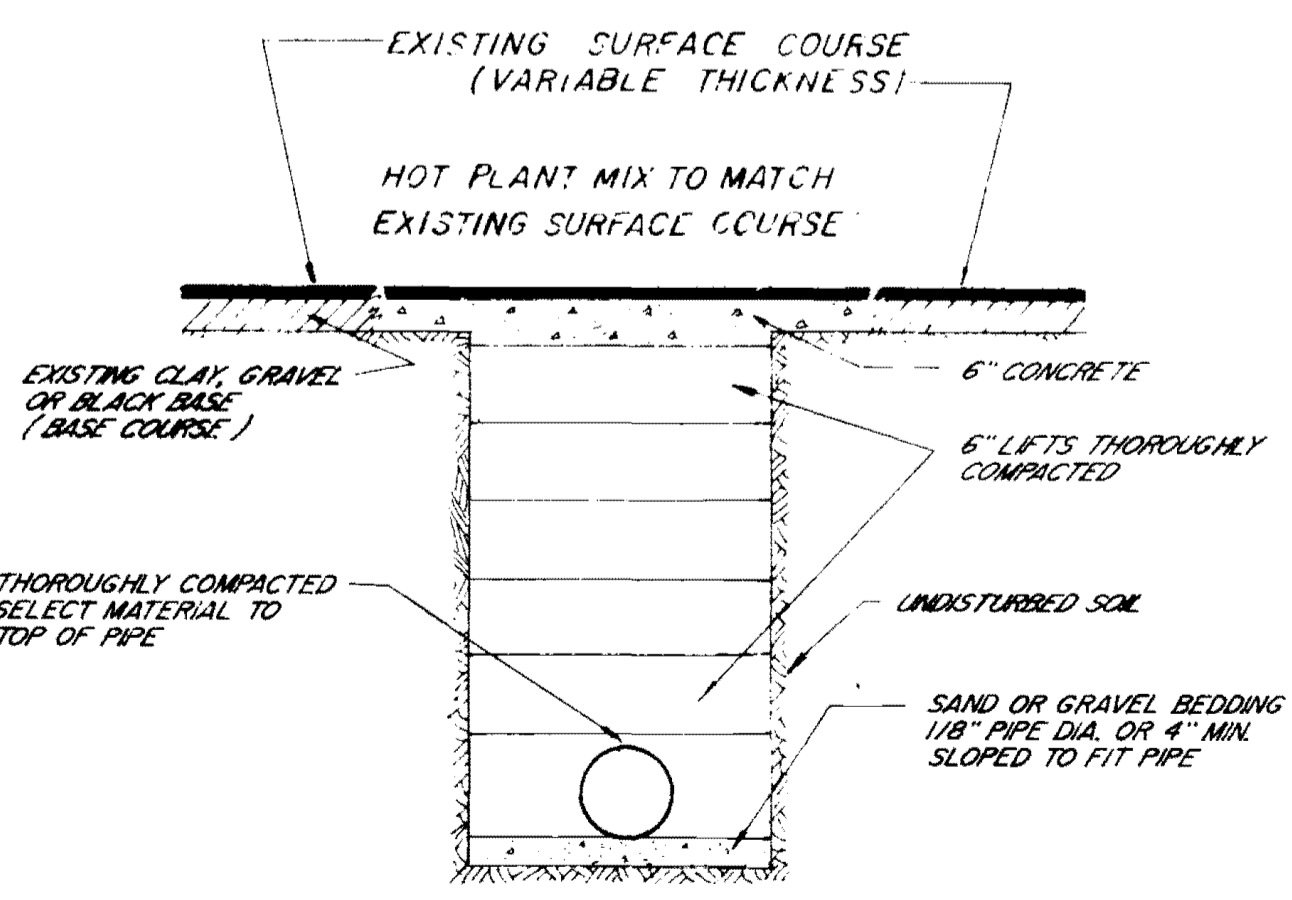
TYPICAL SERVICE ASSEMBLY



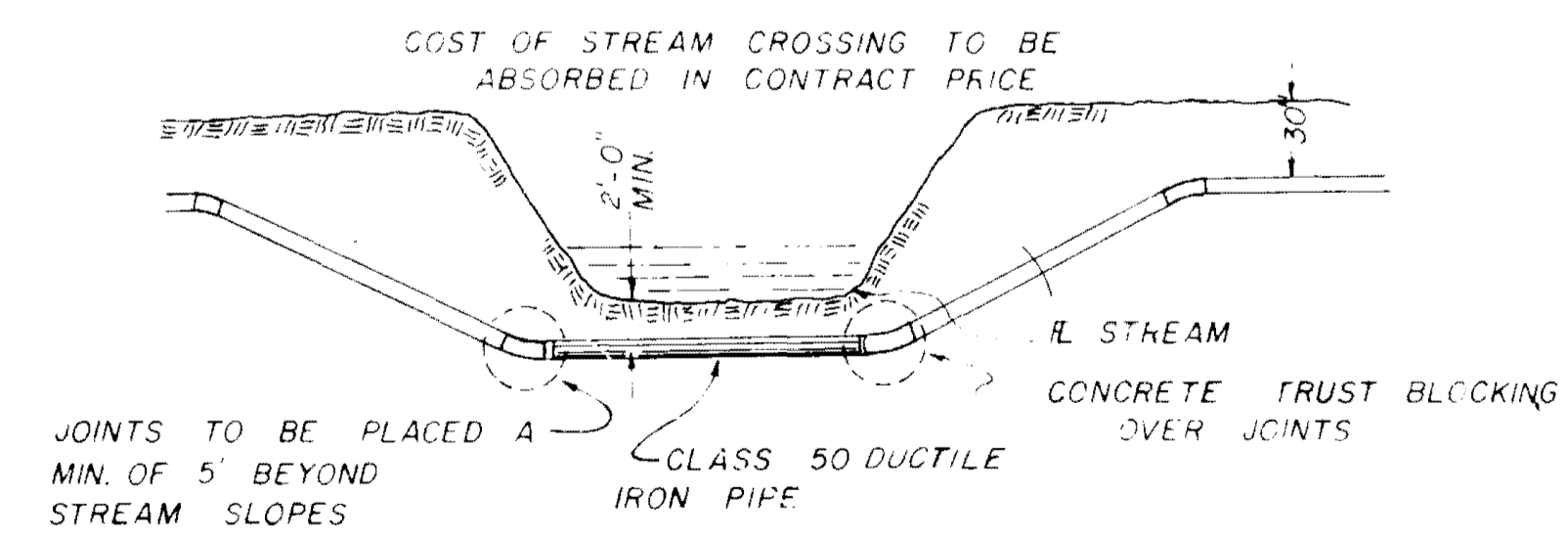
ELEVATION SECTION

TYPICAL VALVE & BOX

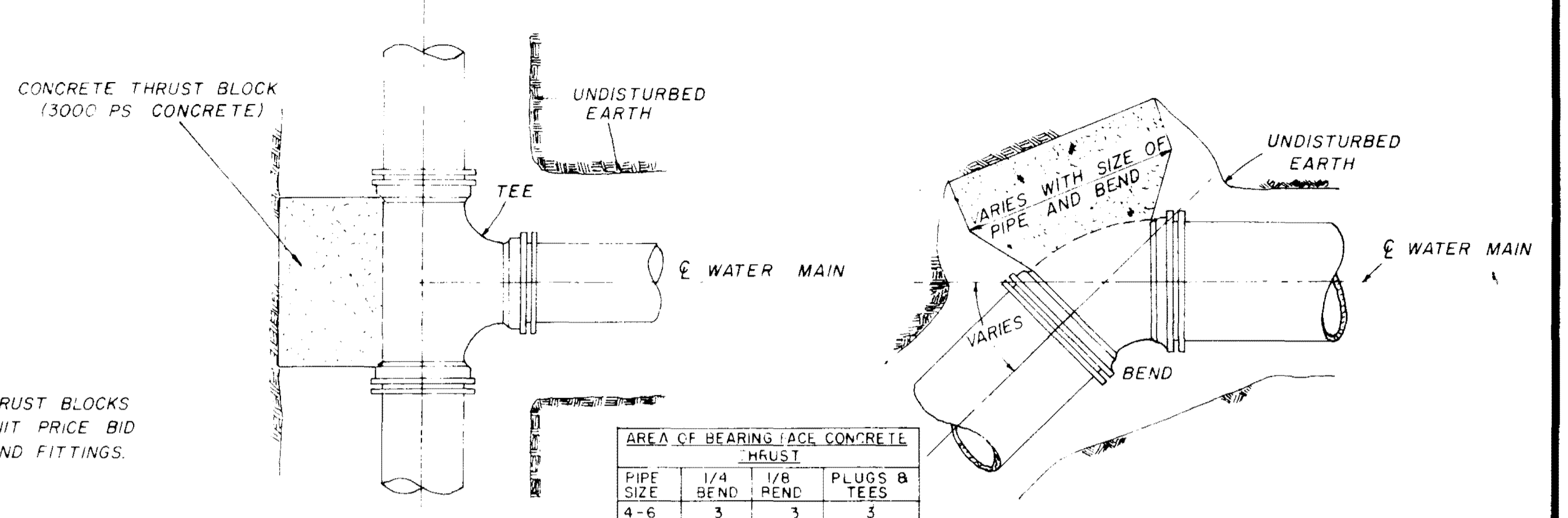
NOTE: ALL WATER MAIN CONNECTIONS SHALL BE RODDED WITH ALL STEEL RODS (3/4" MIN.) UNLESS OTHERWISE INSTRUCTED BY ENGINEER.



STREET REPAIR OF OPEN CUT



TYPICAL STREAM CROSSING

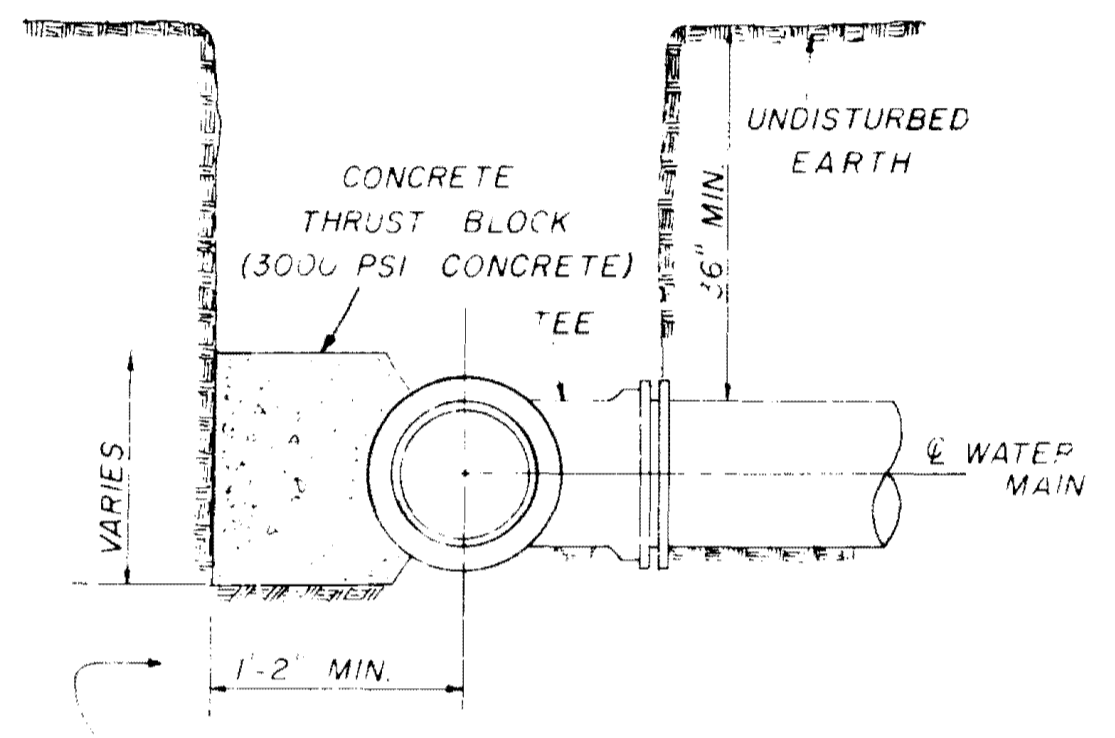


PLAN

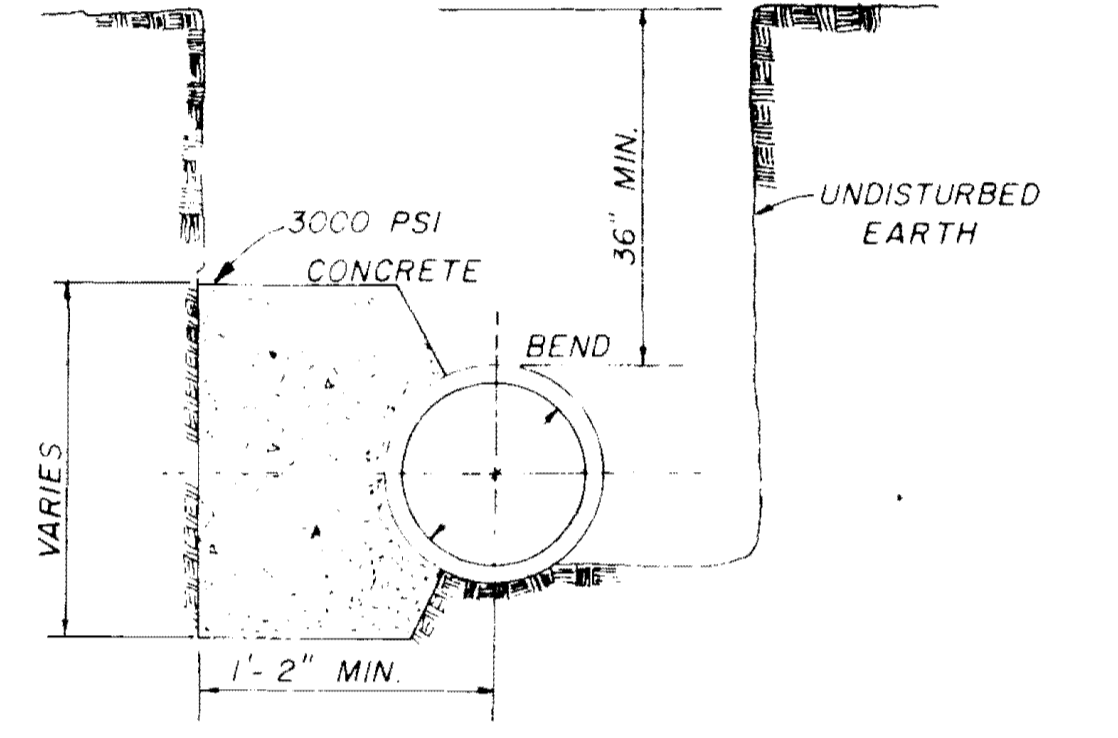
PLAN

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

NOTE: AREA OF BEARING FACE IN SQUARE FEET.

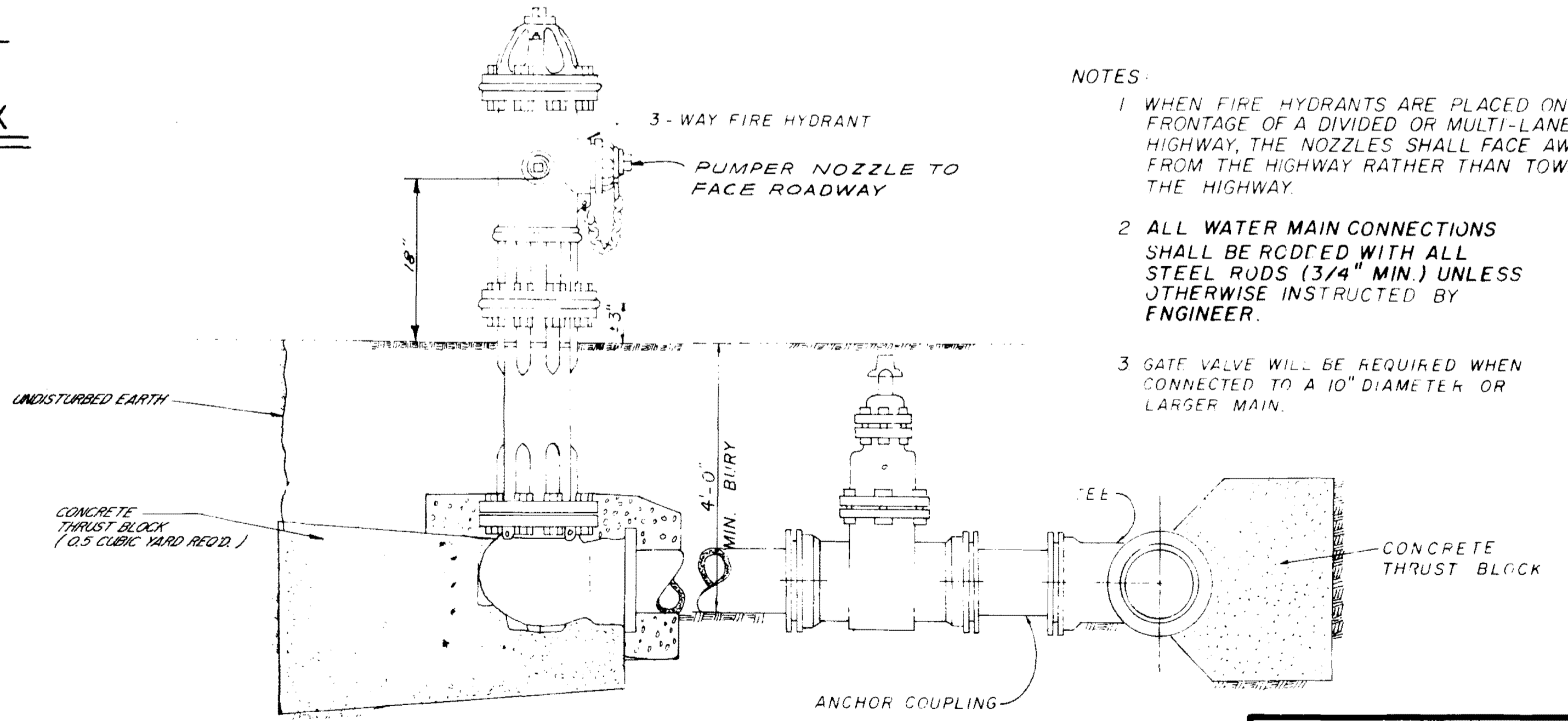


SECTION



SECTION

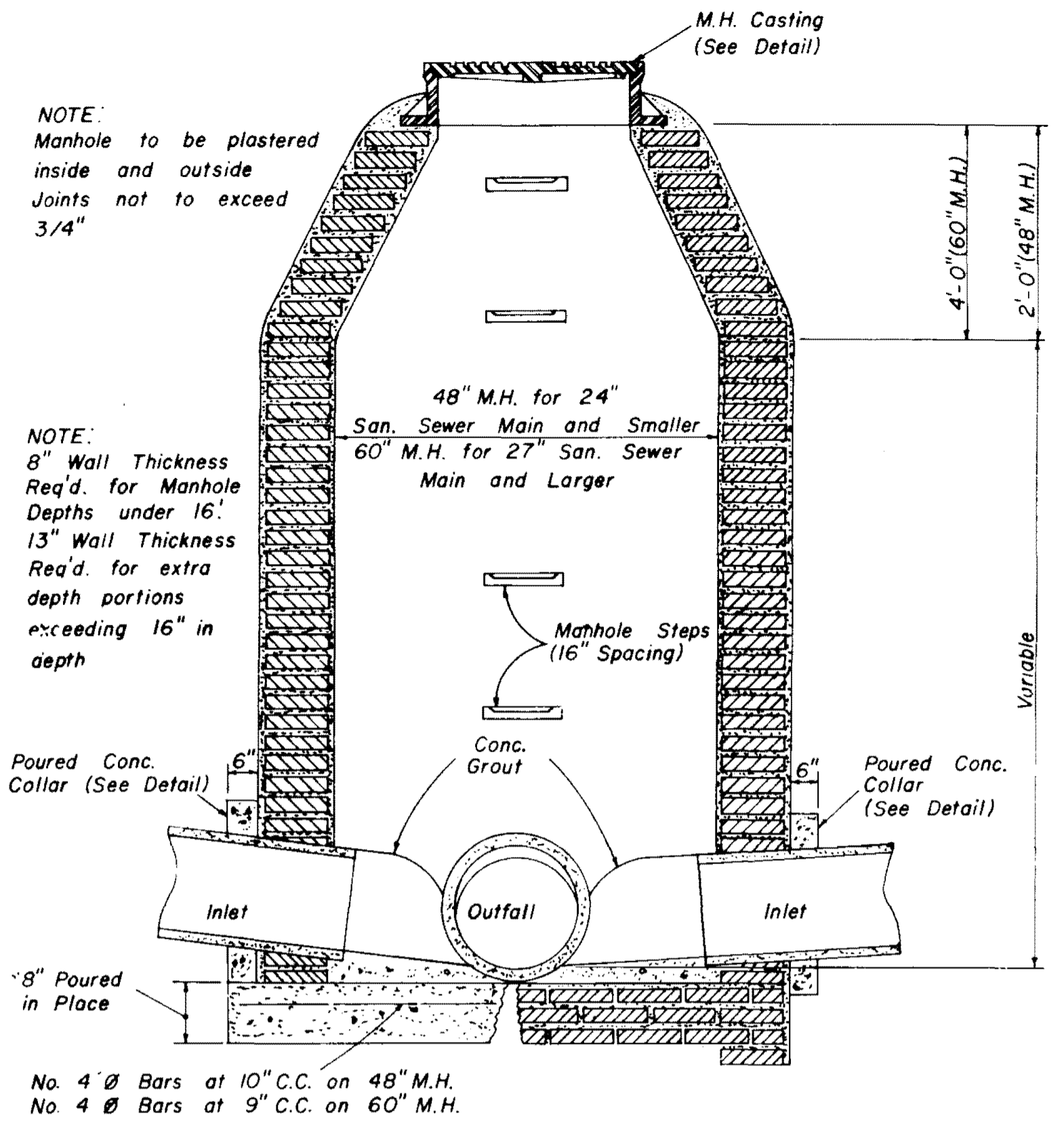
BLOCKING DETAILS FOR TEES & BENDS



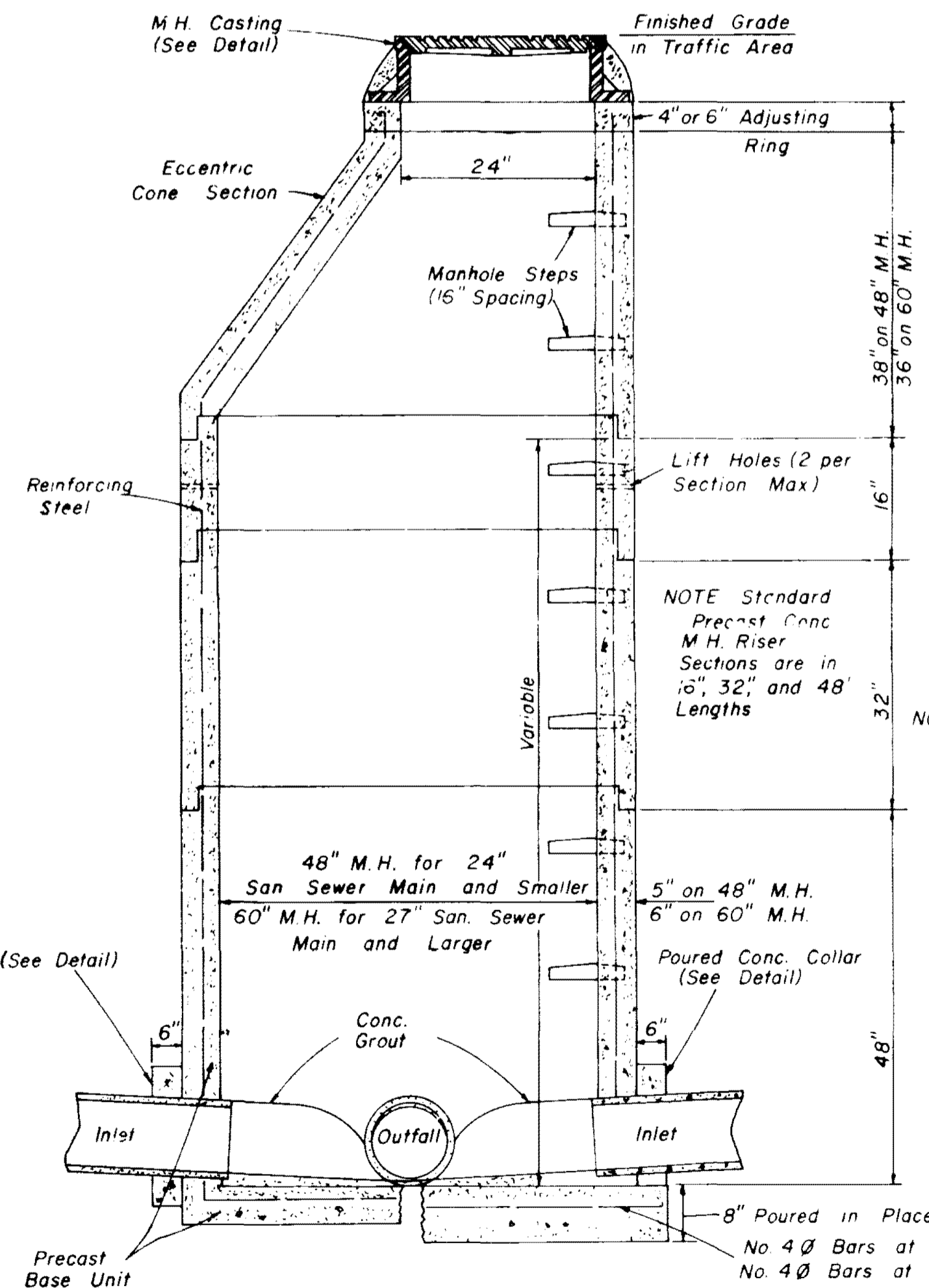
TYPICAL FIRE HYDRANT

- 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.

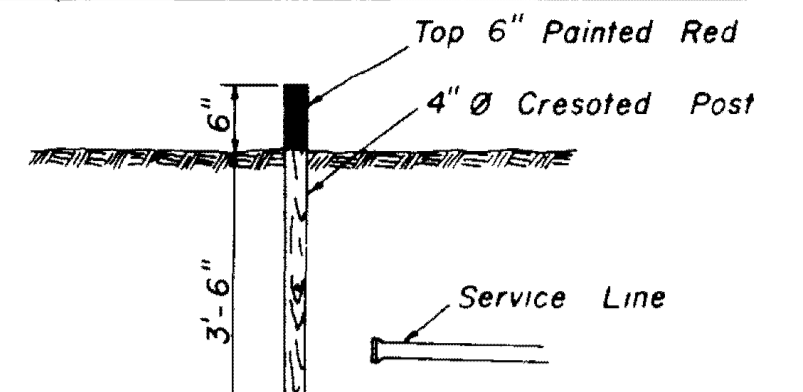
WATER SYSTEM STANDARD DETAILS



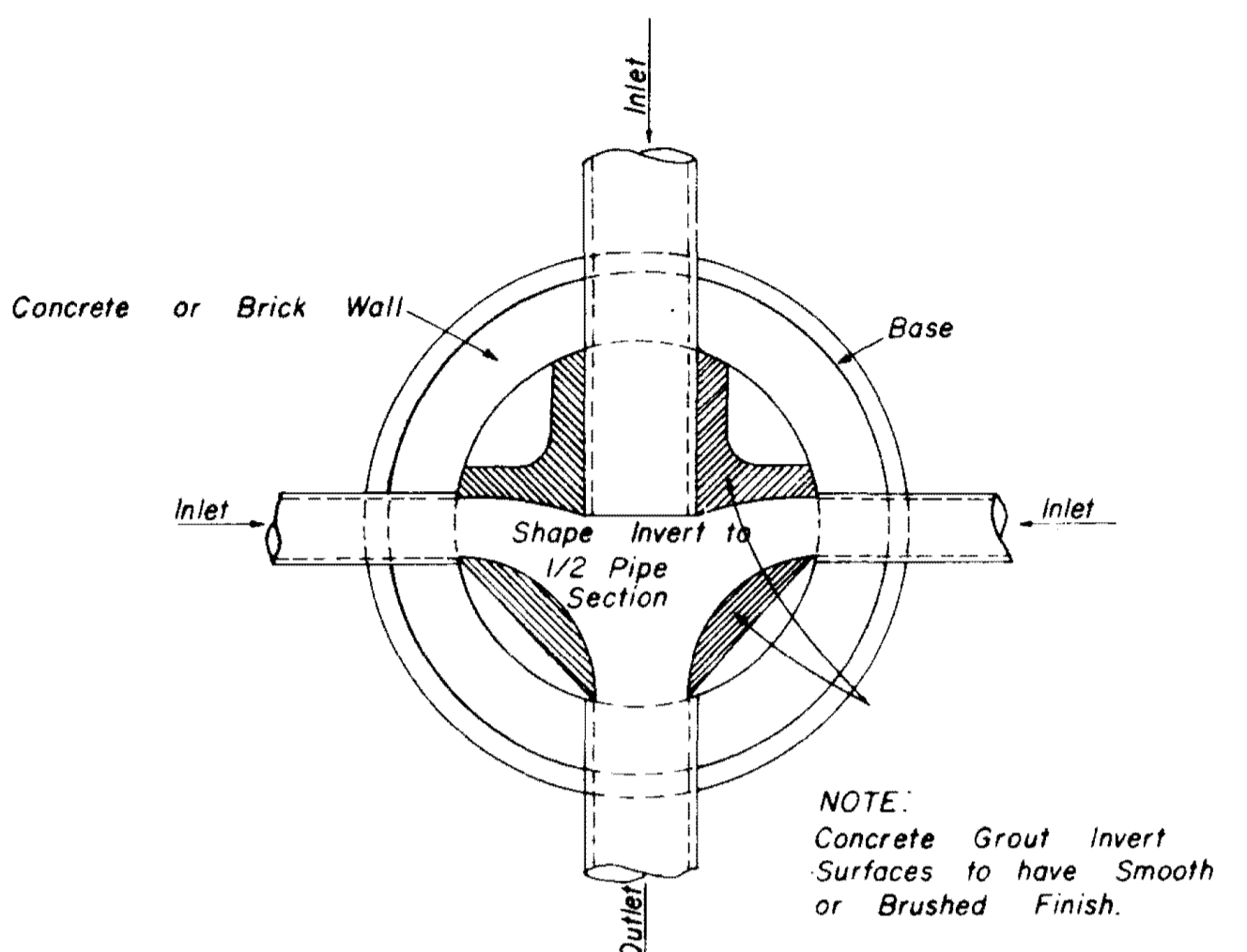
**SECTION
STANDARD BRICK MANHOLE**



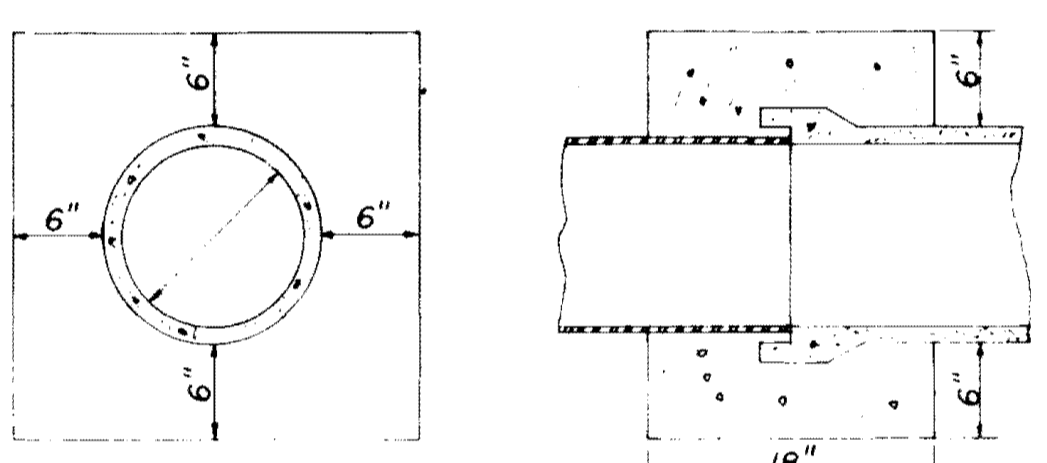
**SECTION
PRECAST CONCRETE MANHOLE**



SEWER SERVICE MARKER



**PLAN OF MANHOLE
FLOW CHANNELS**

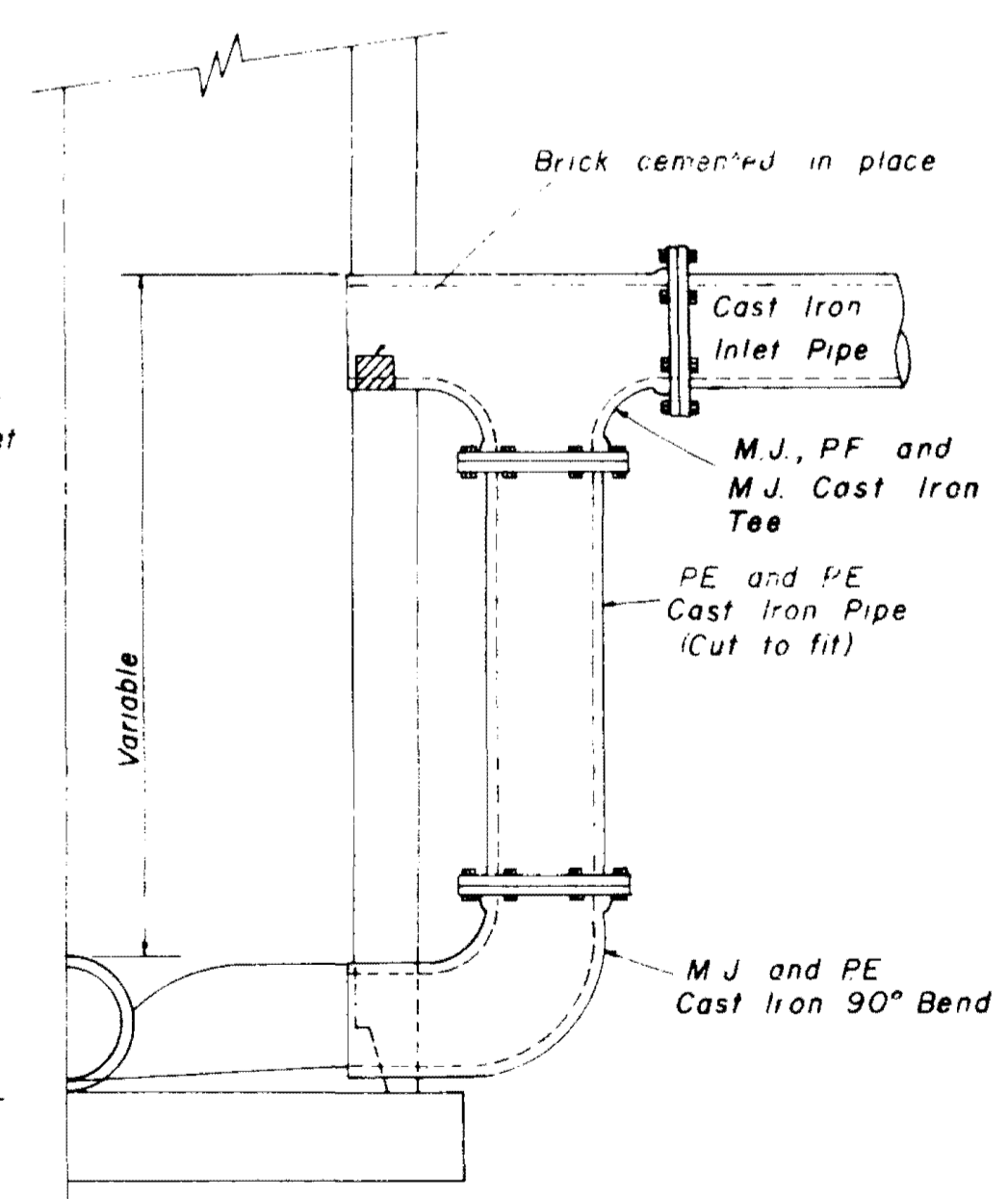


**ELEVATION SECTION
CONCRETE COLLAR DETAILS**

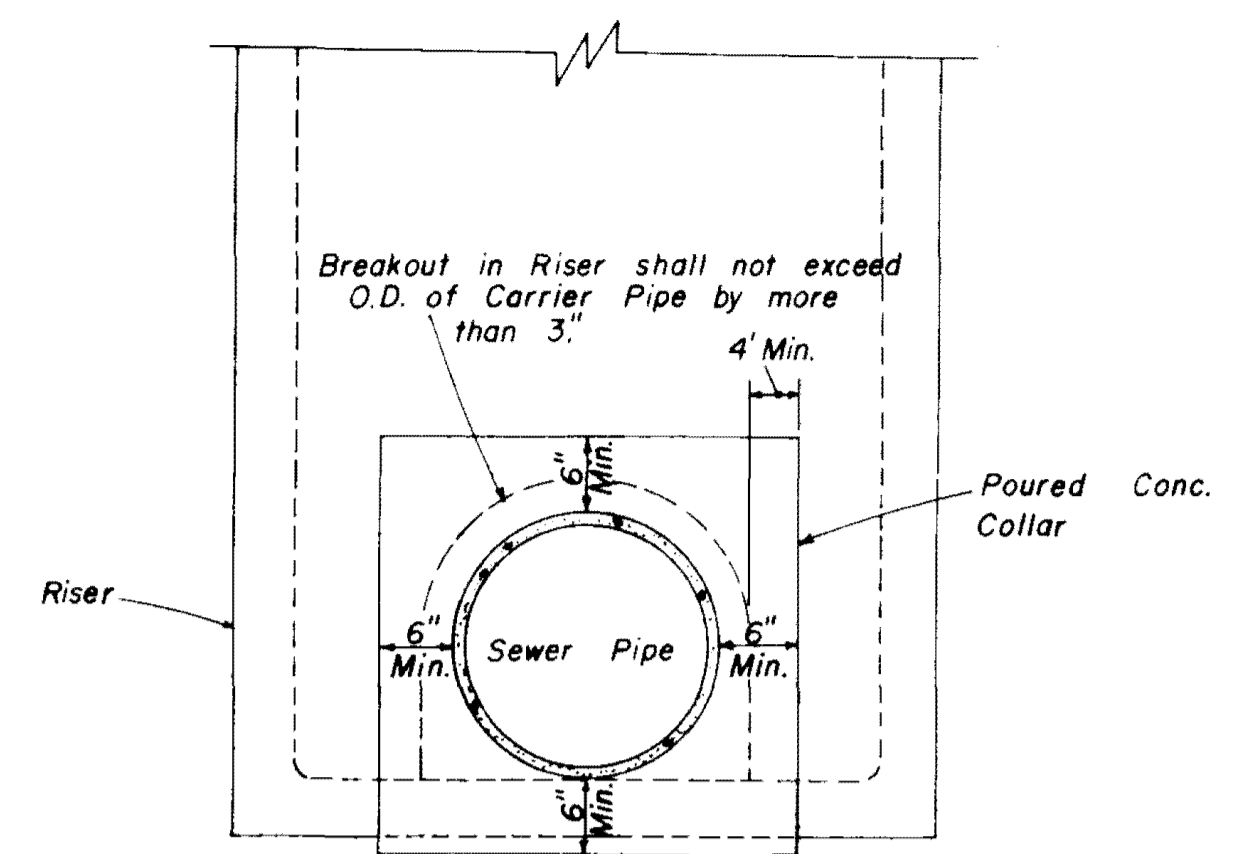
NOTE: All Lift Holes on each Section shall be sealed Watertight with non-shrink Grout inside and outside

NOTE: Standard Precast Conc. M.H. Riser Sections are in 16', 32', and 48' Lengths

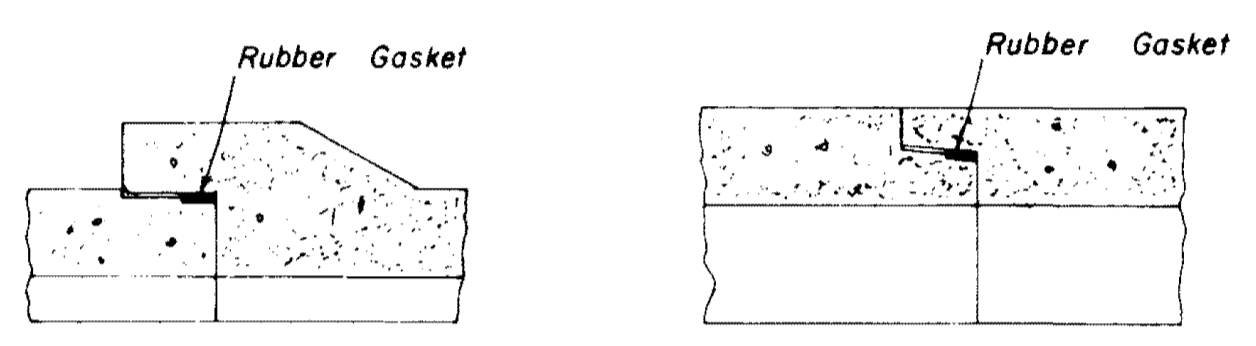
NOTE: All Manhole Joints to be Rubber Gasket



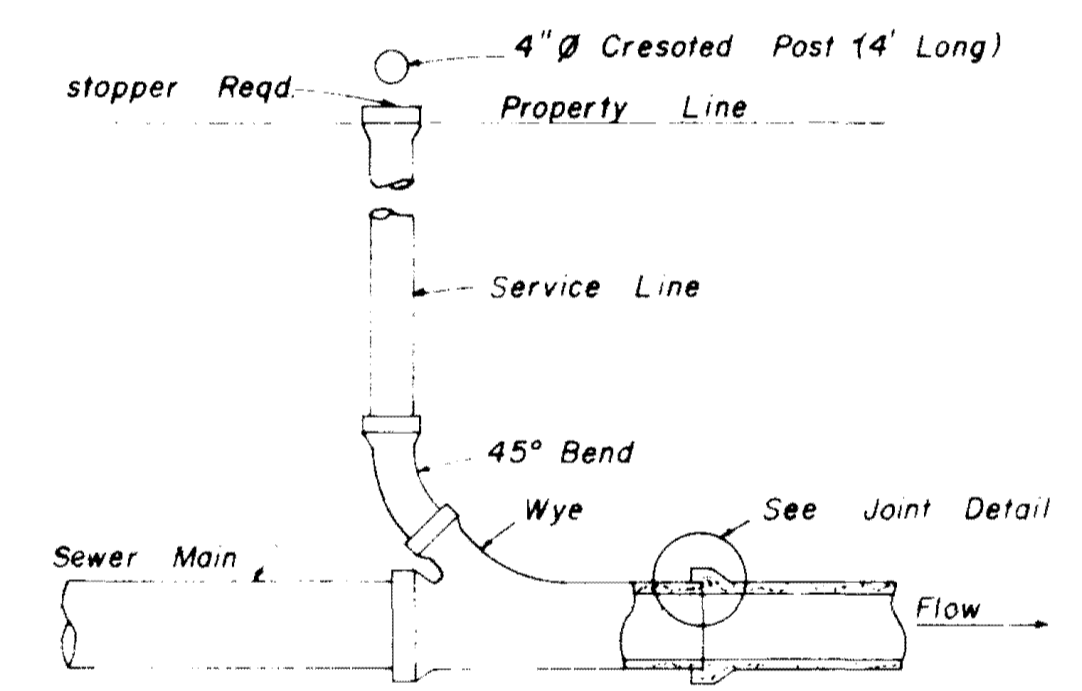
**HALF SECTION
MANHOLE WITH DROP CONNECTION**



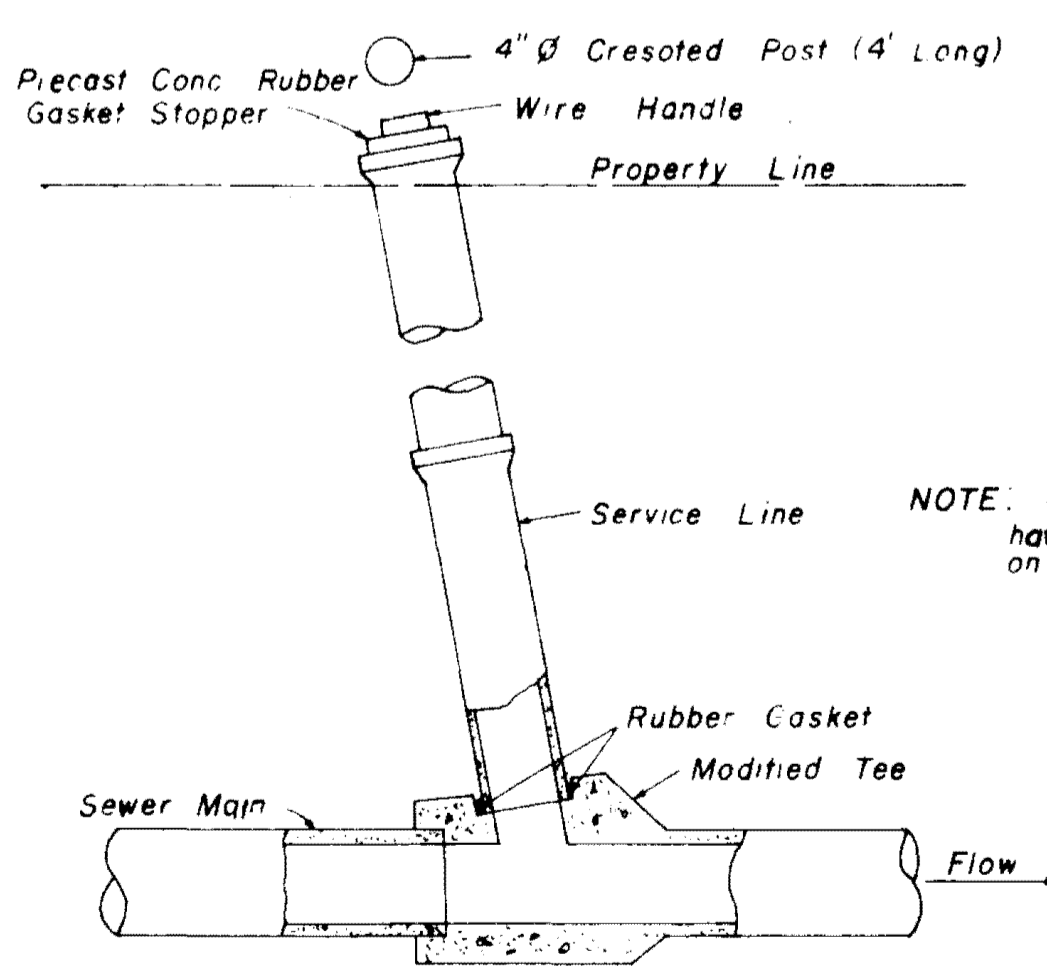
**ELEVATION
CONCRETE COLLAR AT
MANHOLE CONNECTION**



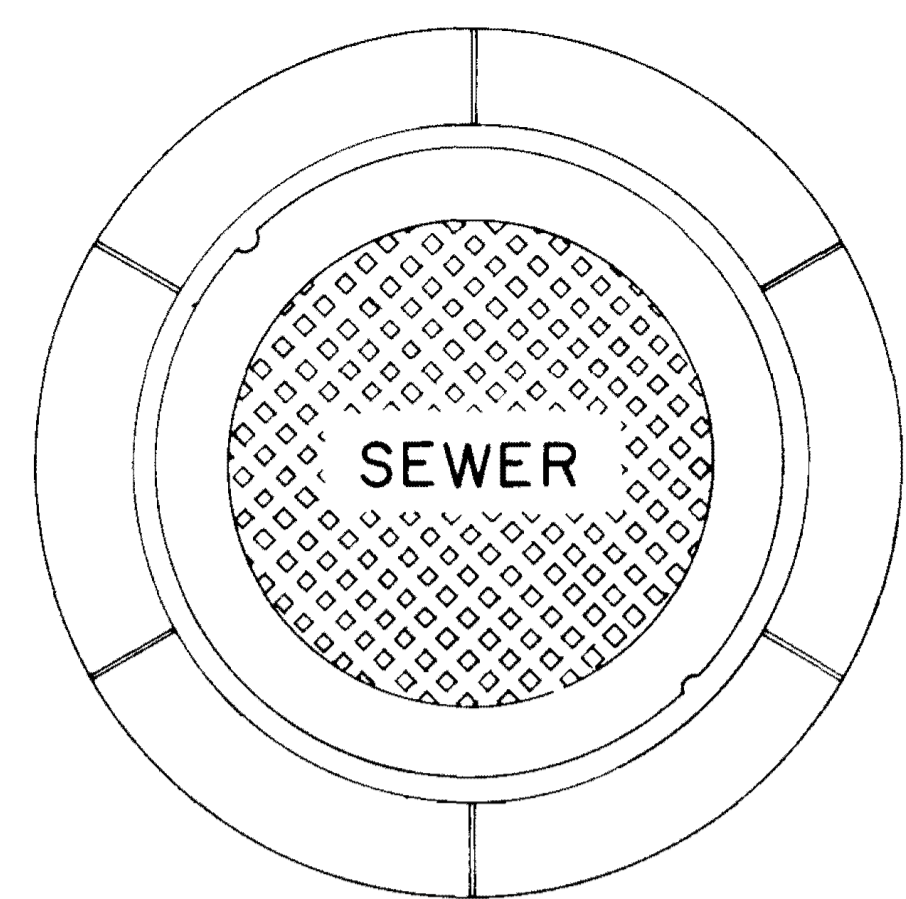
**BELL & SPIGOT TONGUE & GROOVE
JOINT DETAILS**



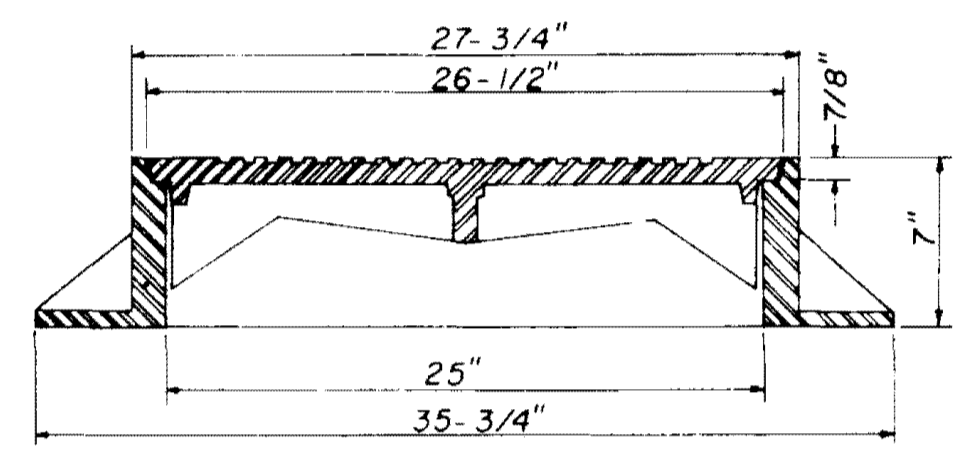
**TYPICAL SERVICE TO PROPERTY LINE
WITH WYE JOINT**



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

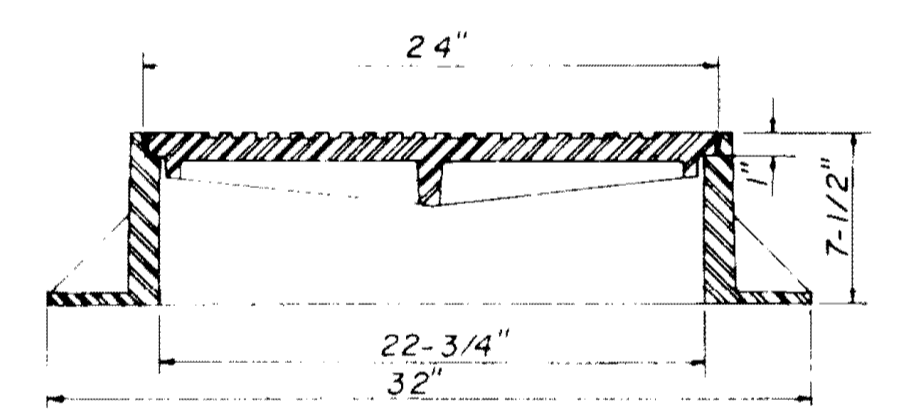


**PLAN
MANHOLE CASTING**



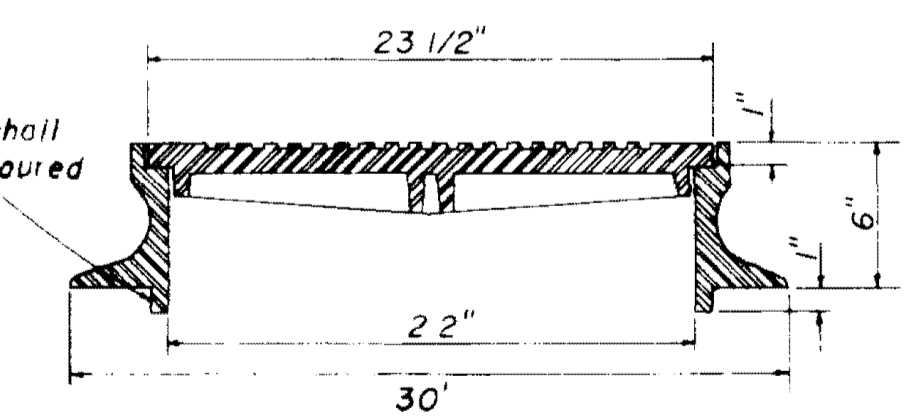
**SECTION
TYPE "A" MANHOLE CASTING**

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.)



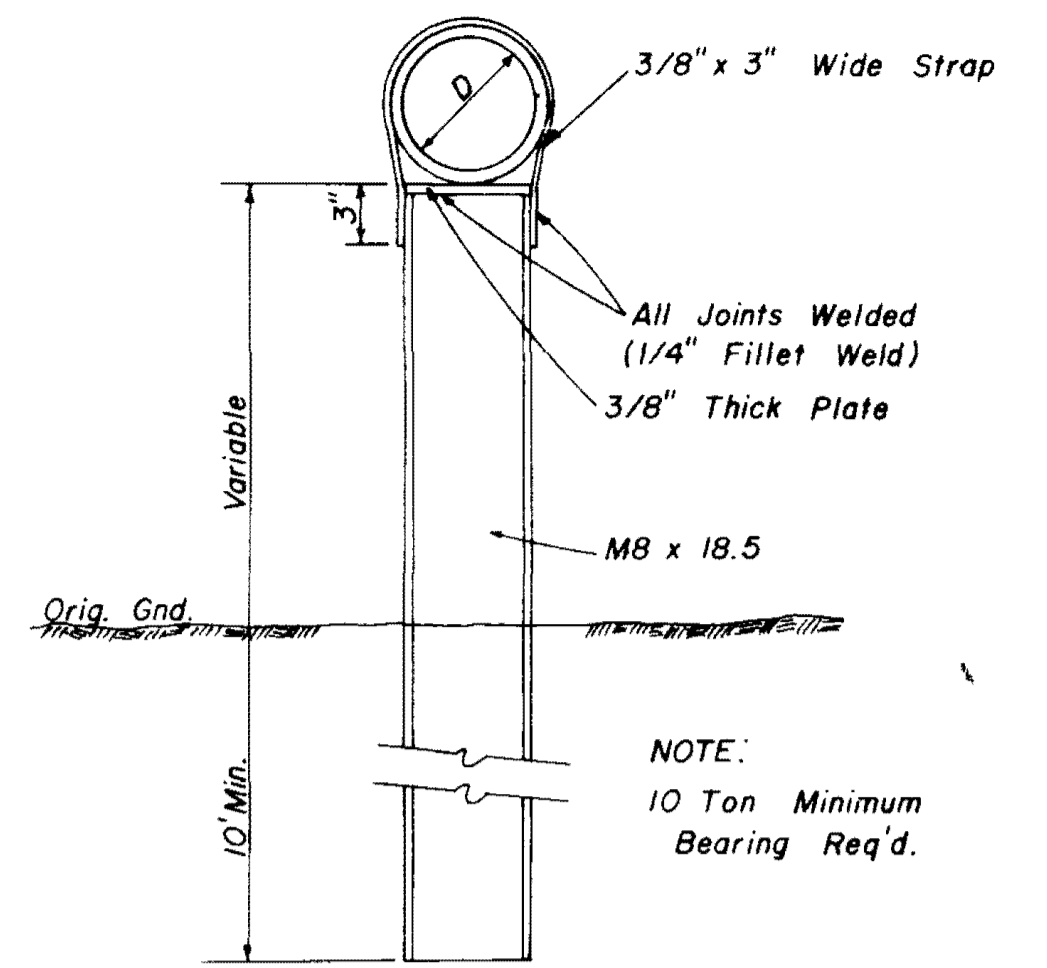
**SECTION
TYPE "B" MANHOLE CASTING**

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.)

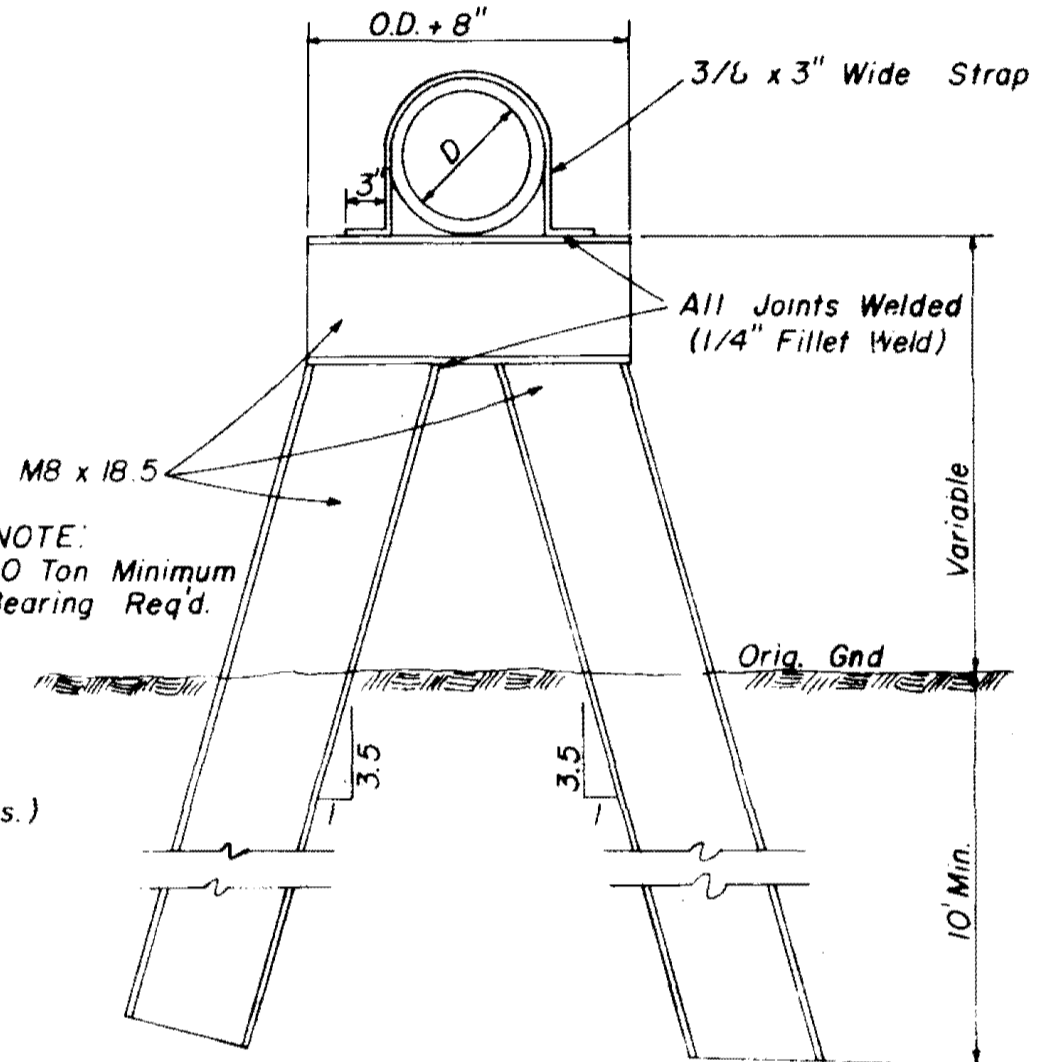


**SECTION
TYPE "C" MANHOLE CASTING**

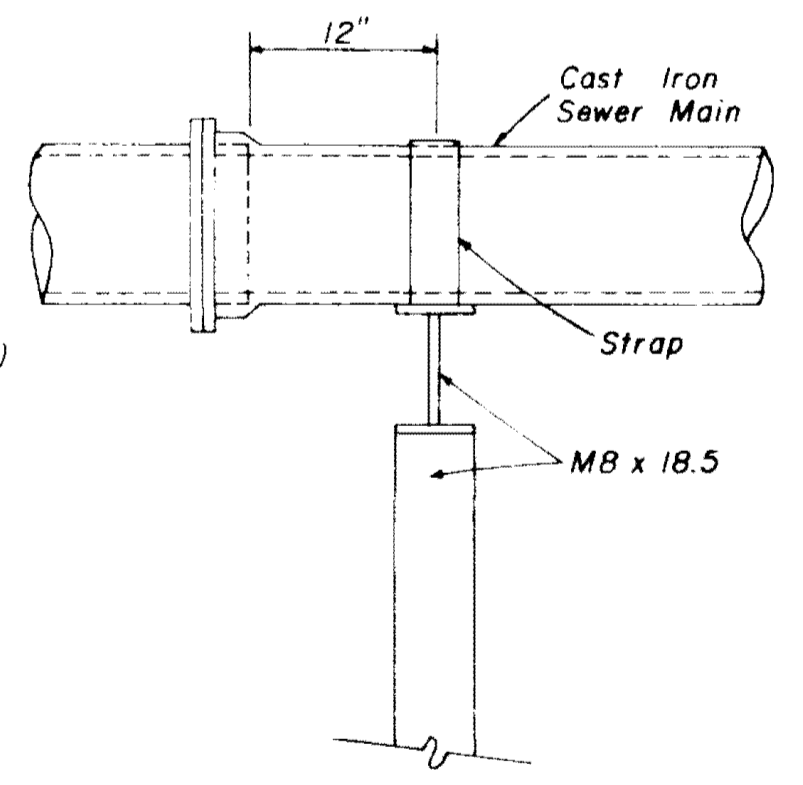
NOTE: 1. Use Type "C" Manhole Casting for Precast Manhole not in a Street R.O.W.
2. Use Harper No. 8 (330 lbs.) or Neenah No. R-1779 (300 lbs.) or Vulcan No. VM-7 (330 lbs.)



**DETAIL
TYPE "A" PIER**



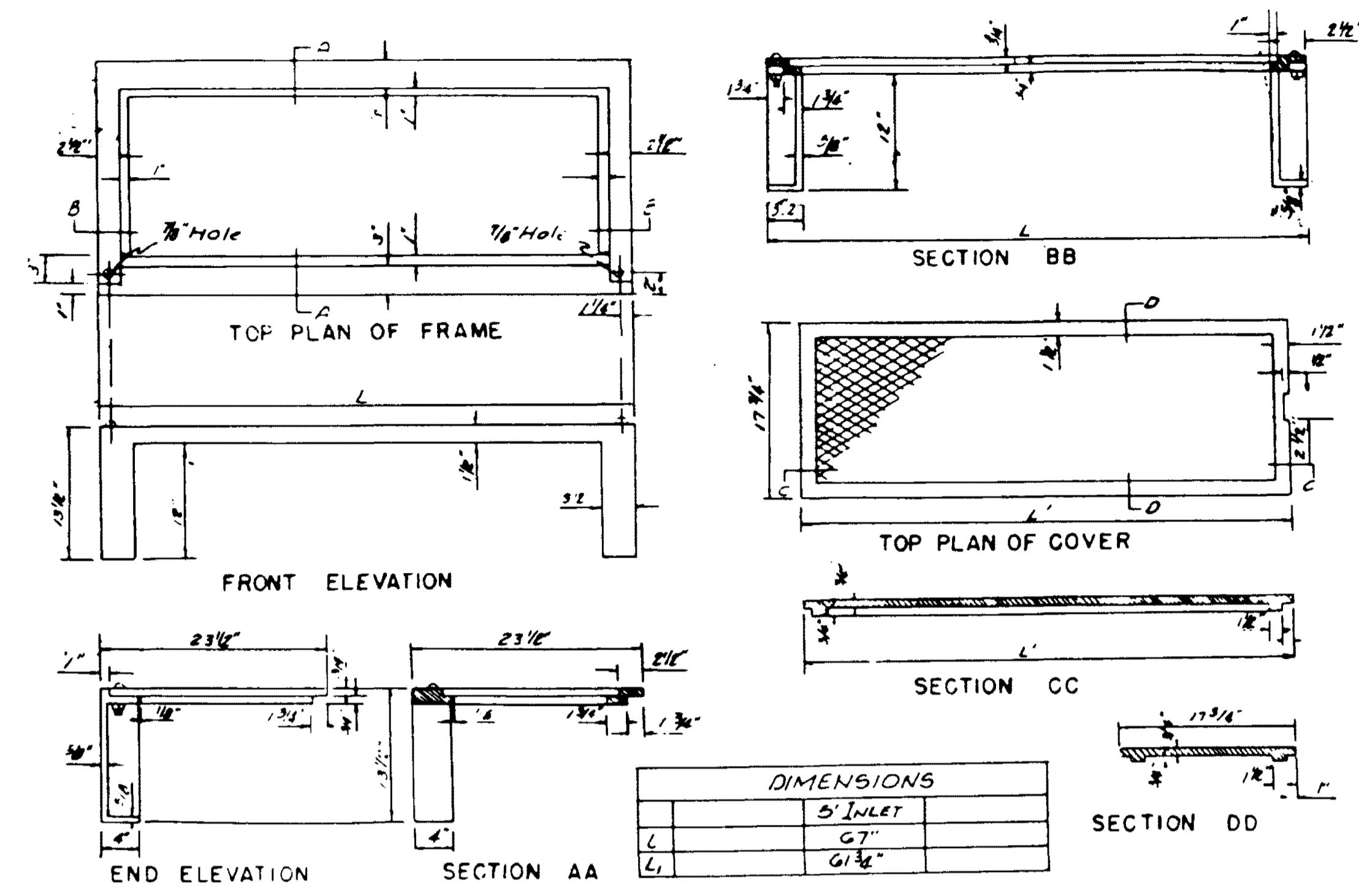
**DETAIL
TYPE "B" PIER**



**SIDE ELEVATION
TYPE "B" PIER**

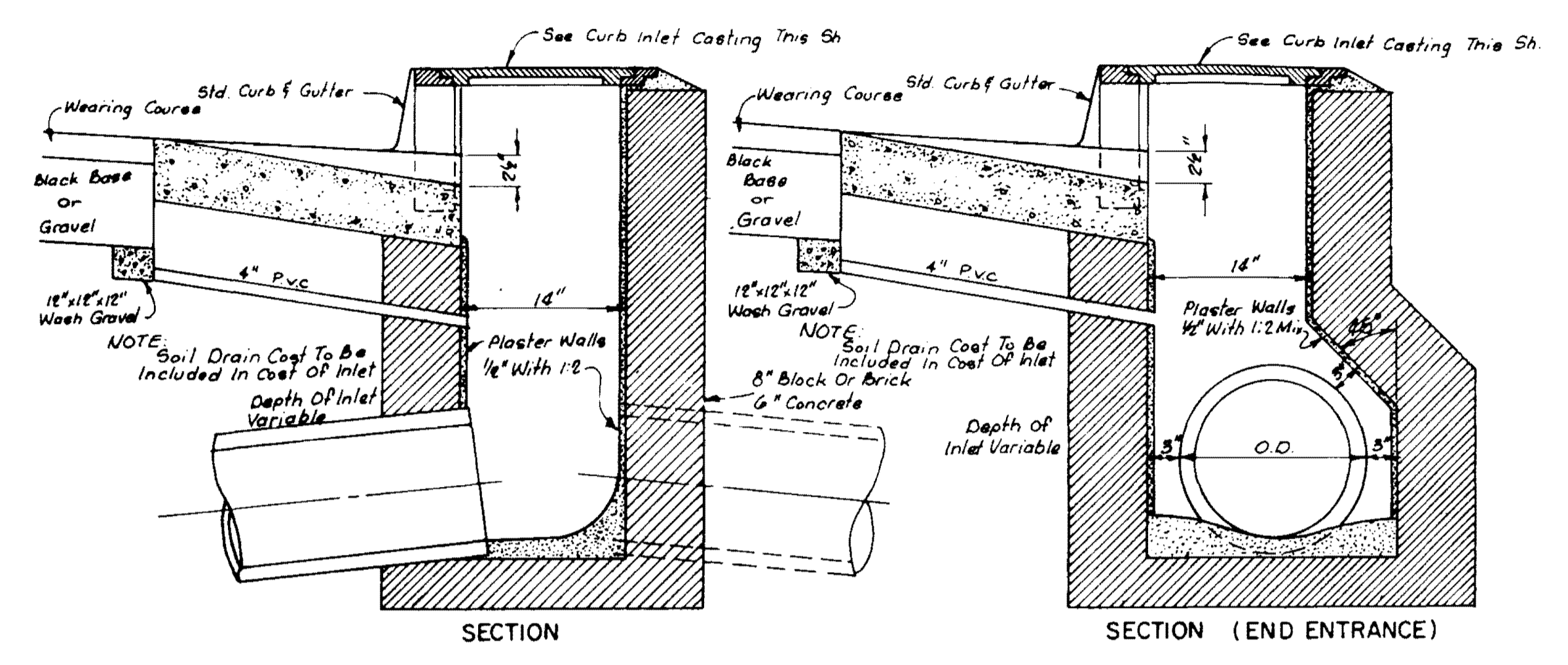
**SANITARY SEWER
STANDARD DETAILS**

BROWNING INC.			
Consulting Engineers Jackson, Mississippi			
DRAWN BY: J.F.	DATE: FEB, 1994		
CHECKED BY: P.L.B.	SCALE: AS SHOWN	10 OF 12	

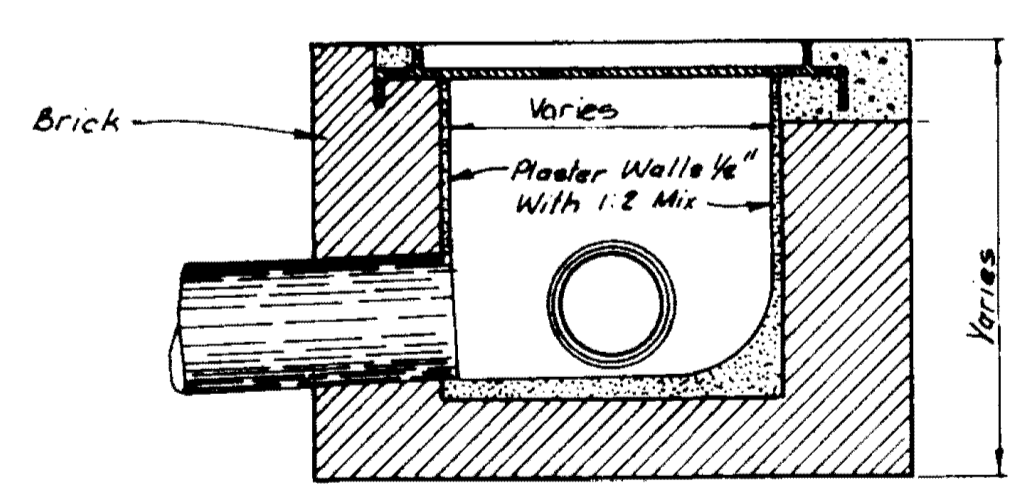


DIMENSIONS	
5" INLET	
67"	
61 1/2"	

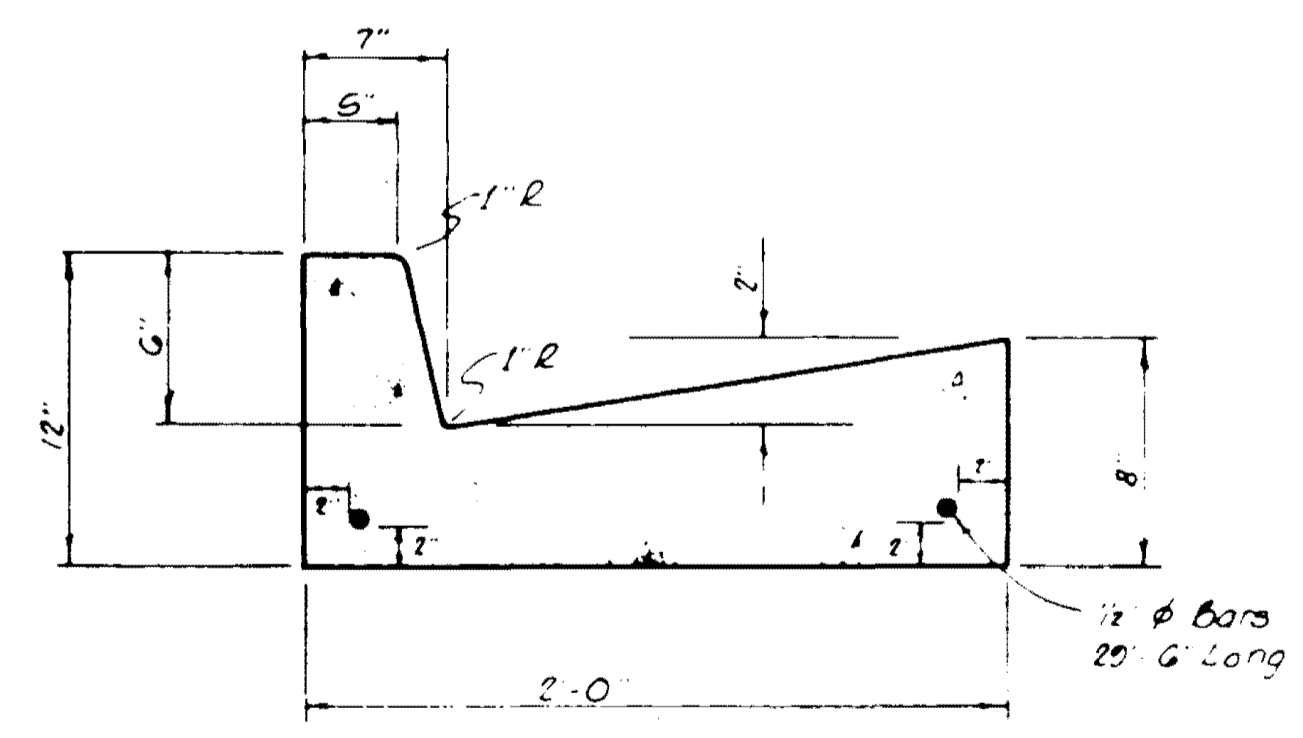
STANDARD CURB INLET CASTING



STANDARD CURB INLET



DROP INLET WITH 24" NON-TRAFFIC OPEN GRATE



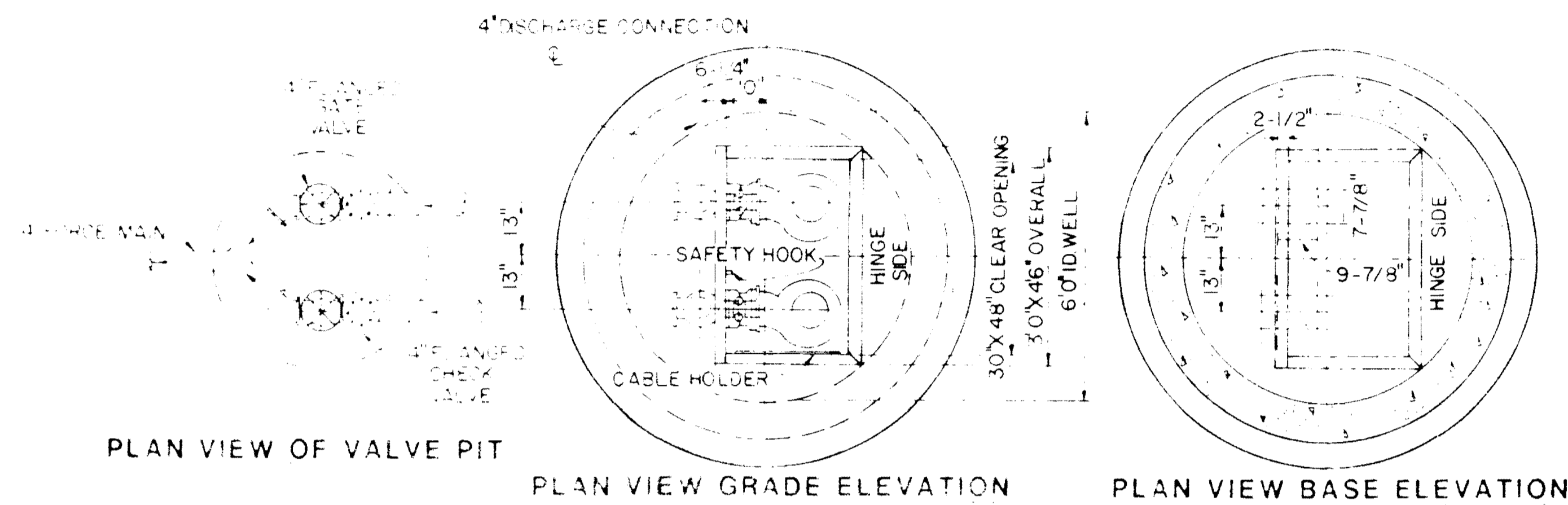
STANDARD CURB & GUTTER

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

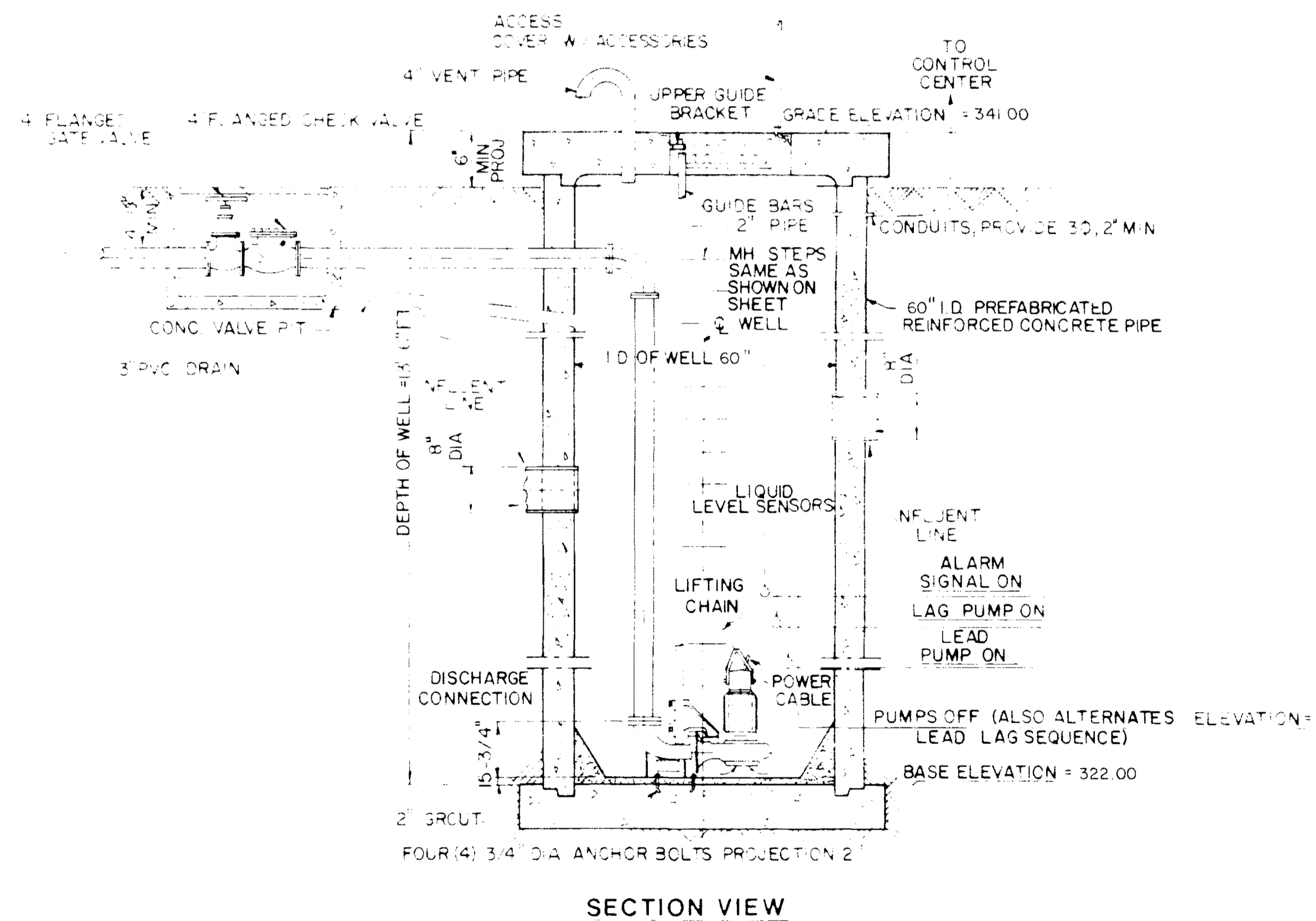
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 Drawn By: J.F. Date: FEB, 1994 Sheet 11 of 12



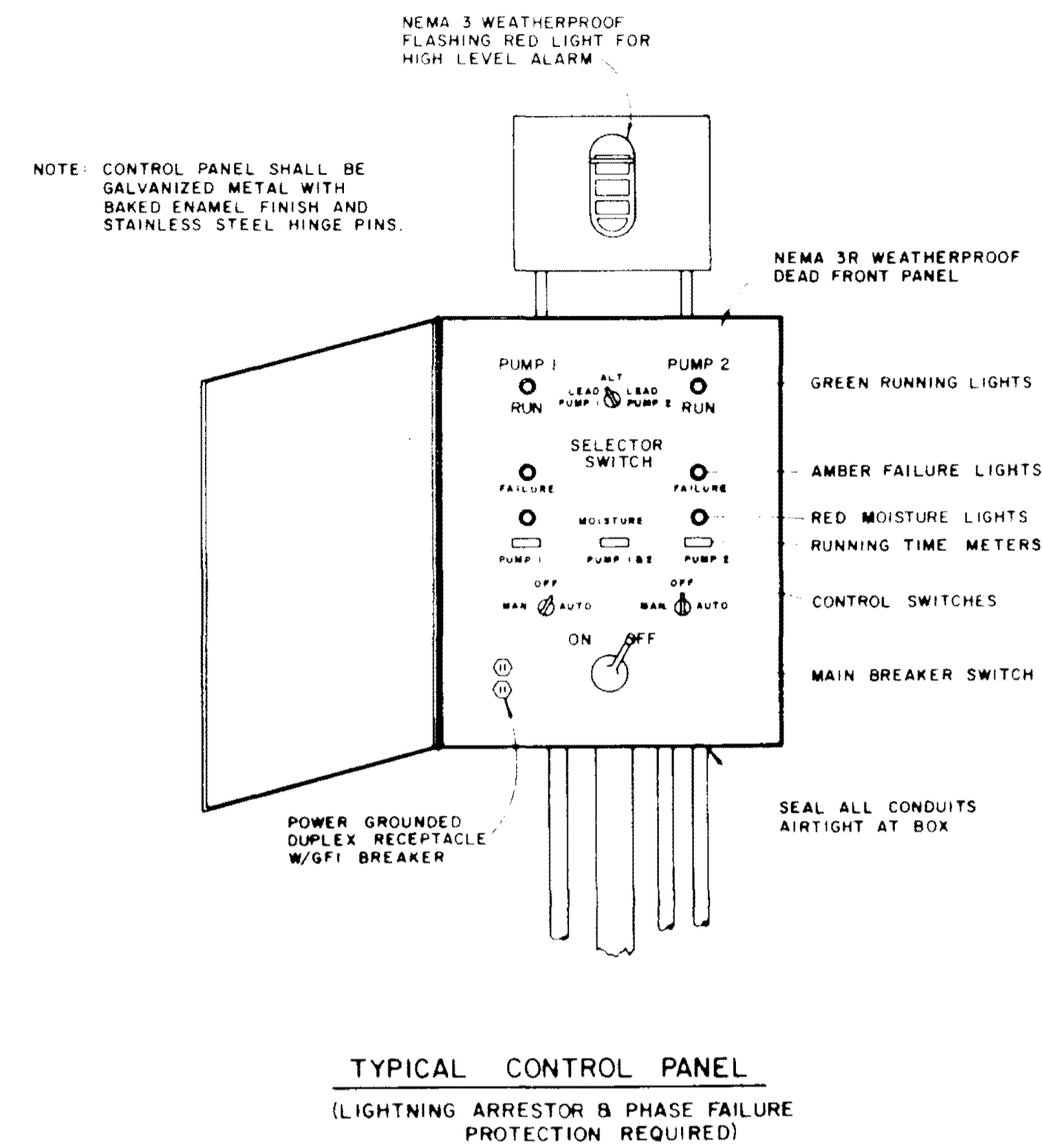
PLAN VIEW OF VALVE PIT

PLAN VIEW GRADE ELEVATION

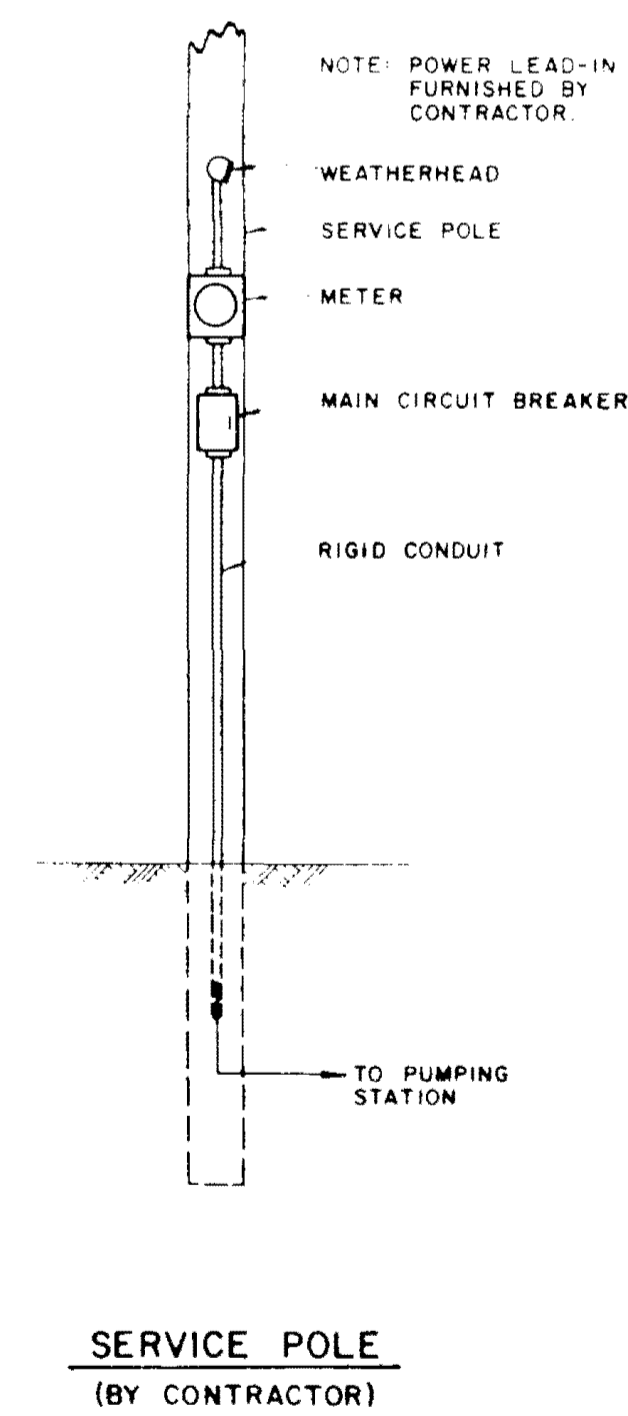
PLAN VIEW BASE ELEVATION



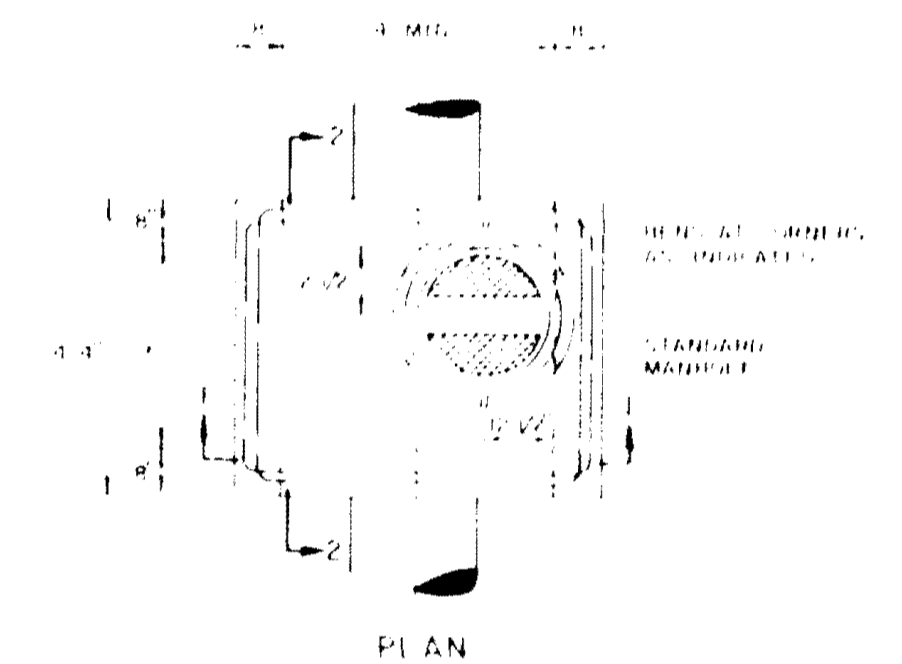
SECTION VIEW



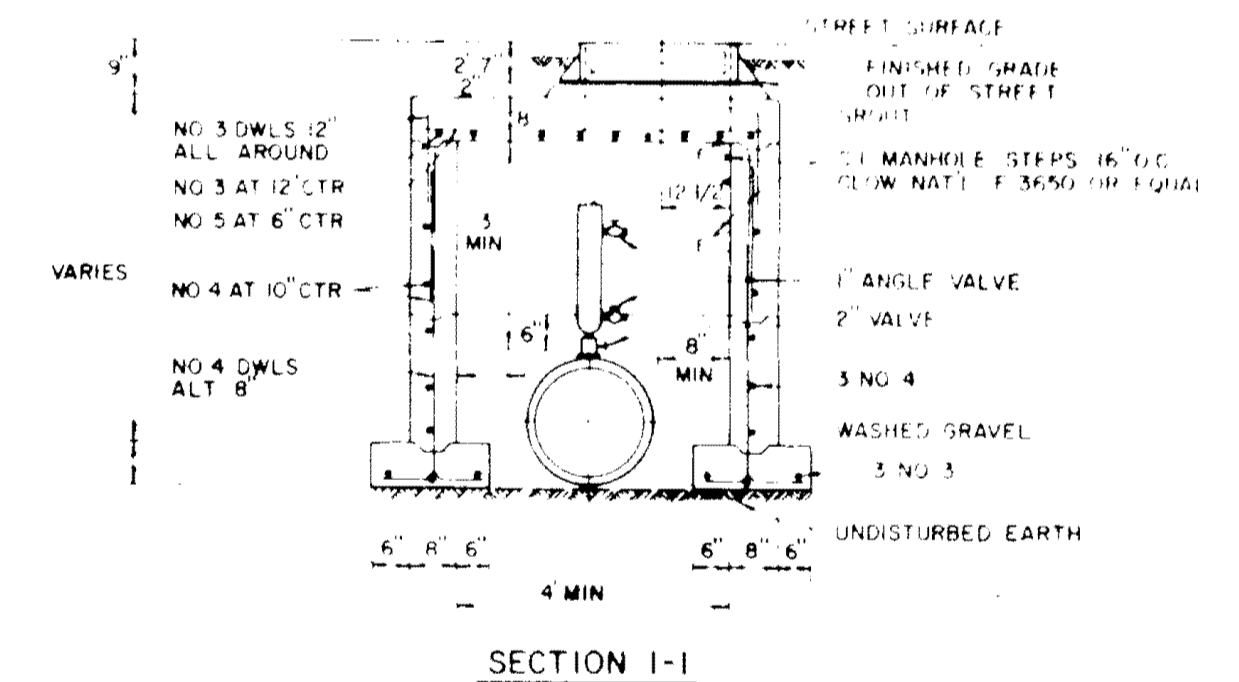
TYPICAL CONTROL PANEL
(LIGHTNING ARRESTOR & PHASE FAILURE PROTECTION REQUIRED)



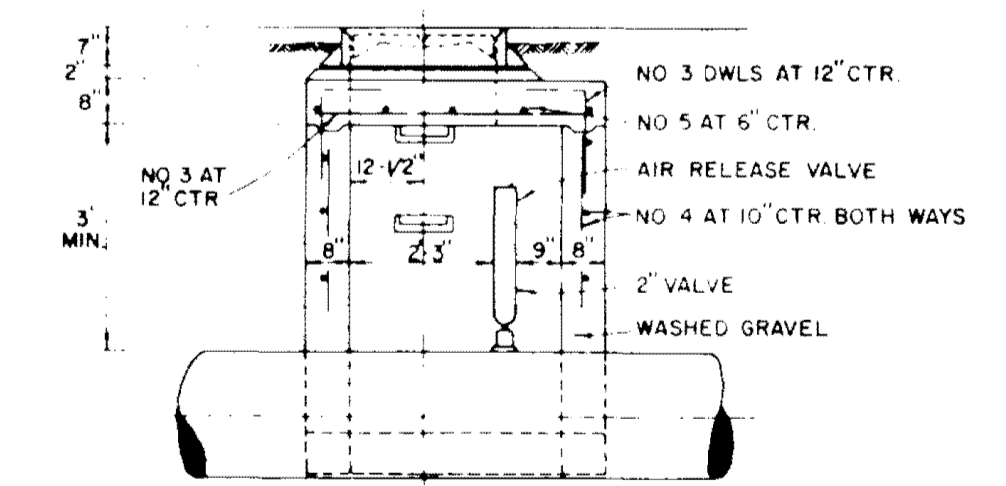
SERVICE POLE
(BY CONTRACTOR)



PLAN



SECTION 1-1



SECTION 2-2

TYPICAL FORCE MAIN AIR RELEASE VALVE ASSEMBLY

NOTE: USE APCO SERIES 400 SAVV MODEL 401 WITH BACKFLUSHING ATTACHMENTS OR APPROVED EQUAL

DESIGNED P.L.B.	DATE FEB., 1994
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. 196 - 00	
FILE NO.	SHEET NO. 12 OF 12