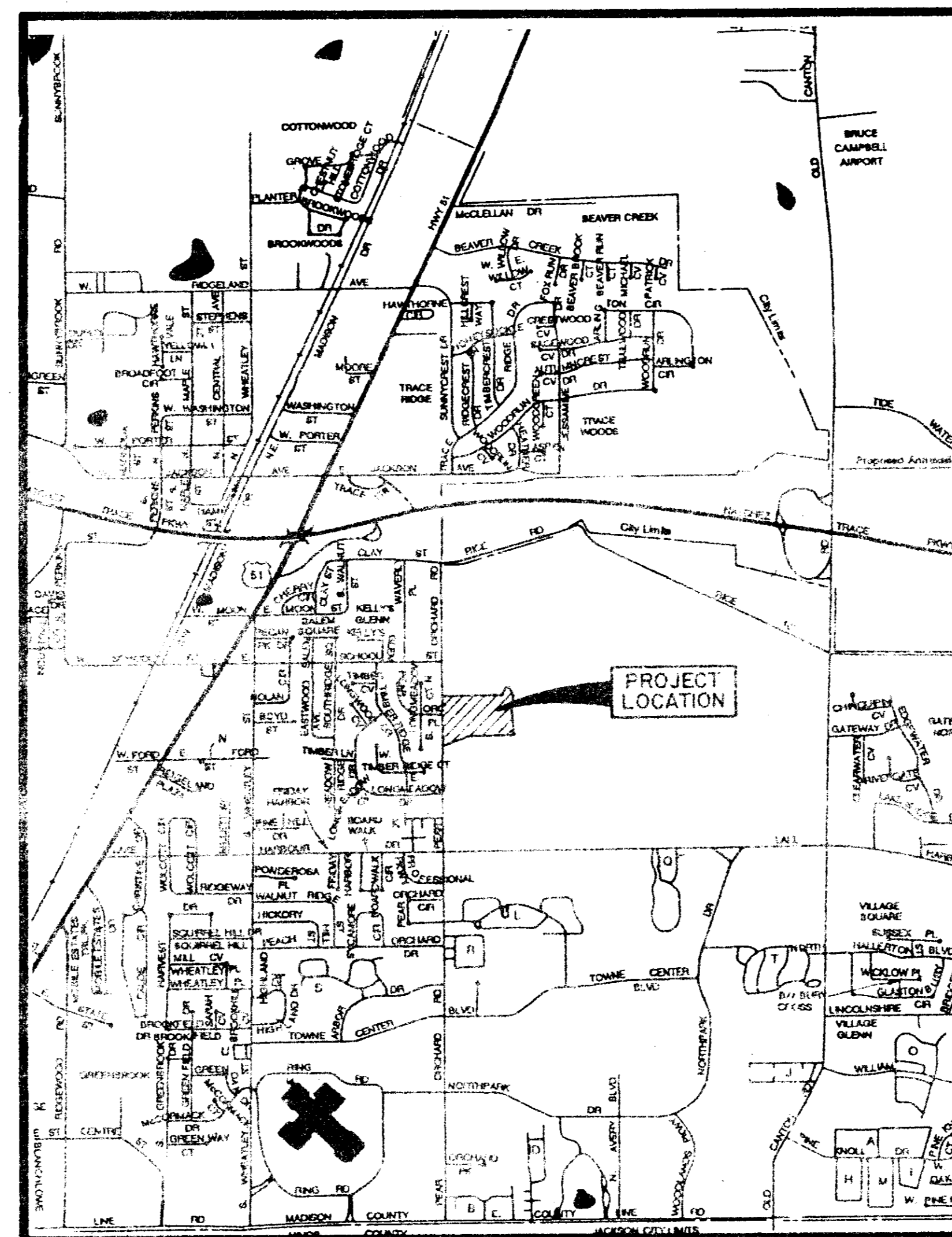


# CONTRACT DRAWINGS FOR SHADOWOOD SUBDIVISION PART THREE - "A"

## CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI CONSTRUCTION PLANS FOR STREET, DRAINAGE, SANITARY SEWER, & WATER SYSTEM

INDEX TO DRAWINGS	
DRAWING NAME:	SHEET No.:
COVER SHEET	1
GENERAL LAYOUT	2
DRAINAGE LAYOUT	3
STORMWATER & SILTATION PREVENTION PLAN	4
PLAN & PROFILE SHEET(S)	5-8A
CITY OF RIDGELAND STANDARD DETAIL SHEET(S)	9-13

SUMMARY OF QUANTITIES		
WATER DISTRIBUTION SYSTEM:		
ITEM DESCRIPTION:	QUANTITY:	UNIT:
CONNECTION TO EXISTING WATER MAIN	2	EA.
8" WATER MAIN, C-900, CLASS 150	0	L.F.
6" WATER MAIN, C-900, CLASS 150	2050	L.F.
8" x 8" x 8" TEE	850	EA.
8" x 8" x 6" TEE (4 FOR HYDRANTS)	6	EA.
8" x 8" CROSS	0	EA.
8" x 6" REDUCED	0	EA.
6" x 6" x 6" TEE	0	EA.
8" GATE VALVE WITH BOX	7	EA.
6" GATE VALVE WITH BOX	0	EA.
6" FIRE HYDRANT WITH GATE VALVE	4	EA.
3/4" SERVICE LINE	560	L.F.
SERVICE ASSEMBLY	39	EA.
SERVICE MARKER	39	EA.
GRASS PLANTING		
ITEM DESCRIPTION:	QUANTITY:	UNIT:
SEEDING	0	AC.



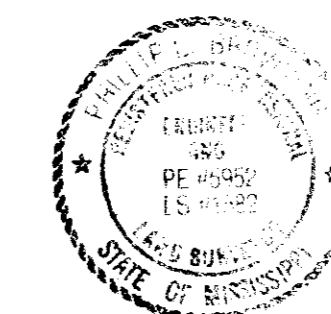
**VICINITY MAP**

MAY 1996

SUMMARY OF QUANTITIES		
SANITARY SEWER SYSTEM		
ITEM DESCRIPTION:	QUANTITY:	UNIT:
CONNECTION TO EXISTING SEWER MAIN	1	EA.
8" GRAVITY SANITARY SEWER (0' - 6')	406	L.F.
8" GRAVITY SANITARY SEWER (6' - 8')	969	L.F.
8" GRAVITY SANITARY SEWER (8' - 10')	135	L.F.
8" GRAVITY SANITARY SEWER (10' - 12')	265	L.F.
8" GRAVITY SANITARY SEWER (12' - 14')	152	L.F.
8" GRAVITY SANITARY SEWER (14' - 16')	0	L.F.
8" GRAVITY SANITARY SEWER (16' - 18')	0	L.F.
48" STANDARD MANHOLE (4' - 6')	4	EA.
48" STANDARD MANHOLE (6' - 8')	7	EA.
48" STANDARD MANHOLE (10' - 12')	4	EA.
48" STANDARD MANHOLE (12' - 14') DROP	1	EA.
48" STANDARD MANHOLE (14' - 16')	0	EA.
48" STANDARD MANHOLE (16' - 18')	0	EA.
48" STANDARD MANHOLE (18' - 20')	0	EA.
UNDERCUT & SELECT BACKFILL	300	C.Y.
6" SANITARY SEWER SERVICE	1560	L.F.
6" STANDARD TEE	39	EA.
SERVICE MARKER	39	EA.
STREETS AND DRAINAGE		
ITEM DESCRIPTION:	QUANTITY:	UNIT:
CLEARING AND GRUBBING	0	AC.
EXCAVATION - COMMON	7160	C.Y.
EXCAVATION - (ON-SITE) STREET UNDERCUT AND BACKFILL	1000	C.Y.
EMBANKMENT	0	C.Y.
6" LIME TREATED SUB-BASE (SUB-BASE PREPARATION INCLUDED)	0	S.Y.
CURB INLET	7	EA.
15" REINFORCED CONCRETE PIPE	238	L.F.
18" REINFORCED CONCRETE PIPE	159	L.F.
21" REINFORCED CONCRETE PIPE	178	L.F.
24" REINFORCED CONCRETE PIPE	0	L.F.
27" REINFORCED CONCRETE PIPE	200	L.F.
24" FLARED END SECTION	0	EA.
4" ASPHALTIC BASE COURSE	8000	S.Y.
1-1/2" ASPHALTIC SURFACE COURSE	8000	S.Y.
CONCRETE CURB AND GUTTER	5500	L.F.

Prepared By:  
**Browning, Inc.**  
CONSULTING ENGINEERS - SURVEYORS  
P.O. Box 12751  
1058 Ridgewood Place  
Jackson, Mississippi 39211  
PH. (601)-957-3500

Note: Refer to the Filing Plan for Boundary and Lot Dimensions.



AS BUILT  
SEPTEMBER, 1996

PWP-01925

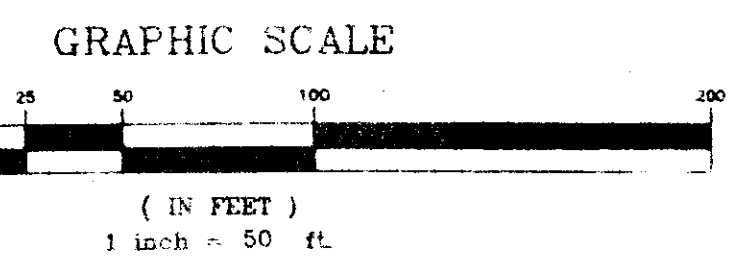
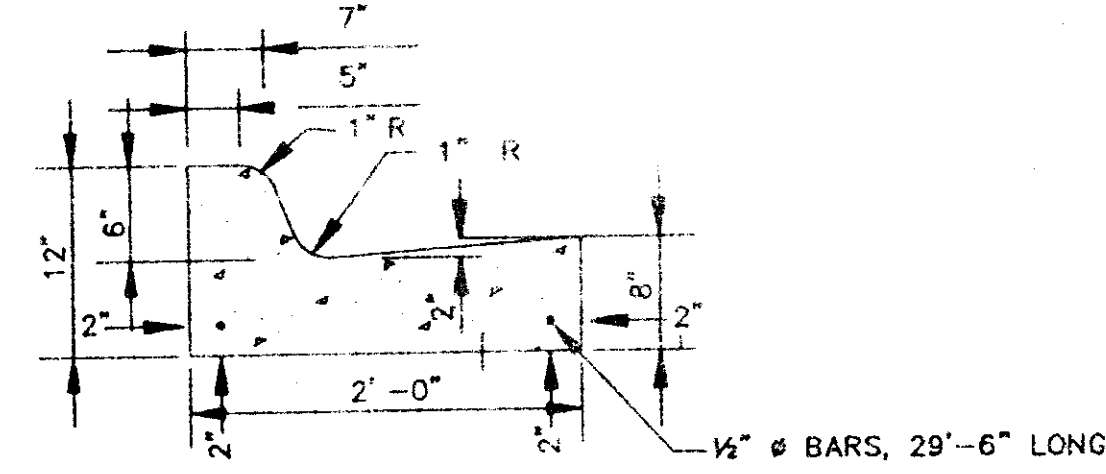
Date: 10-7-96  
P.E. No. 5952



**GENERAL NOTES:**

- 1.) ALL DISTANCES ALONG CURVES ARE EXPRESSED AS CHORD DISTANCES.
- 2.) ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF RIDGELAND SUBDIVISION REGULATIONS.
- 2.) CONTOURS SHOWN ARE REFERENCED TO M.S.L. (MEAN SEA LEVEL) DATUM. CONTOUR INTERVAL IS 2.0'.
- 3.) THE PRESENT ZONING CLASSIFICATION OF THE SUBJECT PROPERTY IS "R-2".
- 4.) THE PARCEL CONTAINS 680,173 SQ. FT., 15.61 ACRES, MORE OR LESS.
- 5.) THE PROPERTY IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAPS OF THE INCORPORATED AREAS OF MADISON COUNTY, MISSISSIPPI, ACCORDING TO PANEL NUMBER 28089C0320 D, DATED APRIL 15, 1994. ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN.
- 6.) A FIVE FOOT UTILITY EASEMENT WILL BE GRANTED TO THE CITY OF RIDGELAND ON THE STREET SIDE OF ALL LOTS.

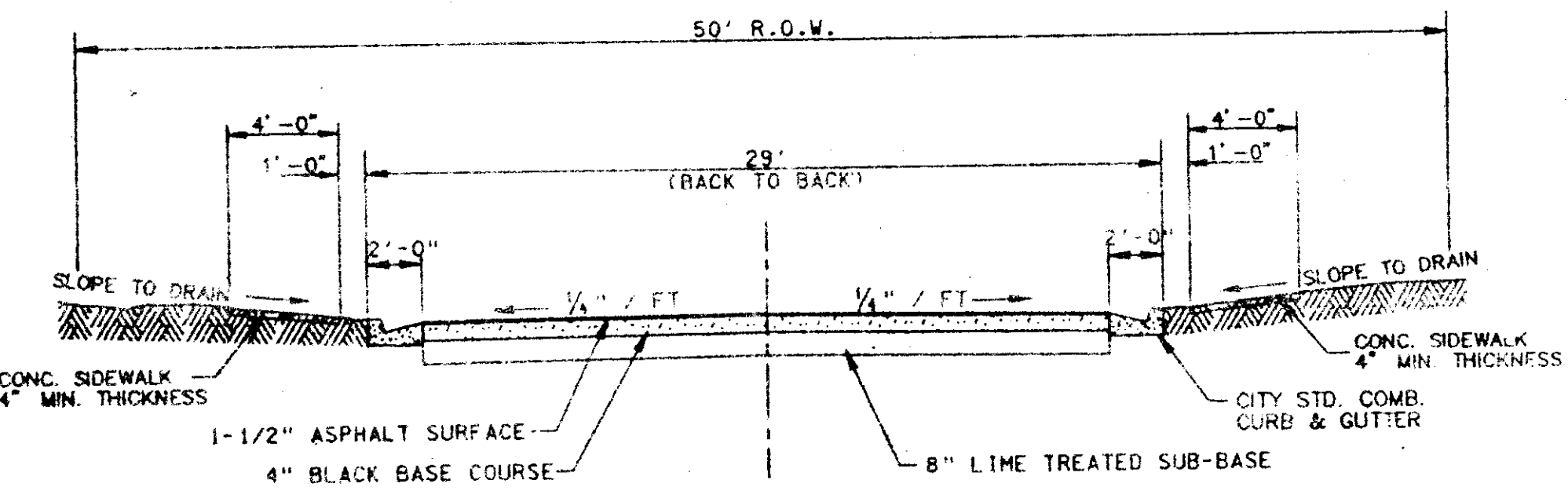
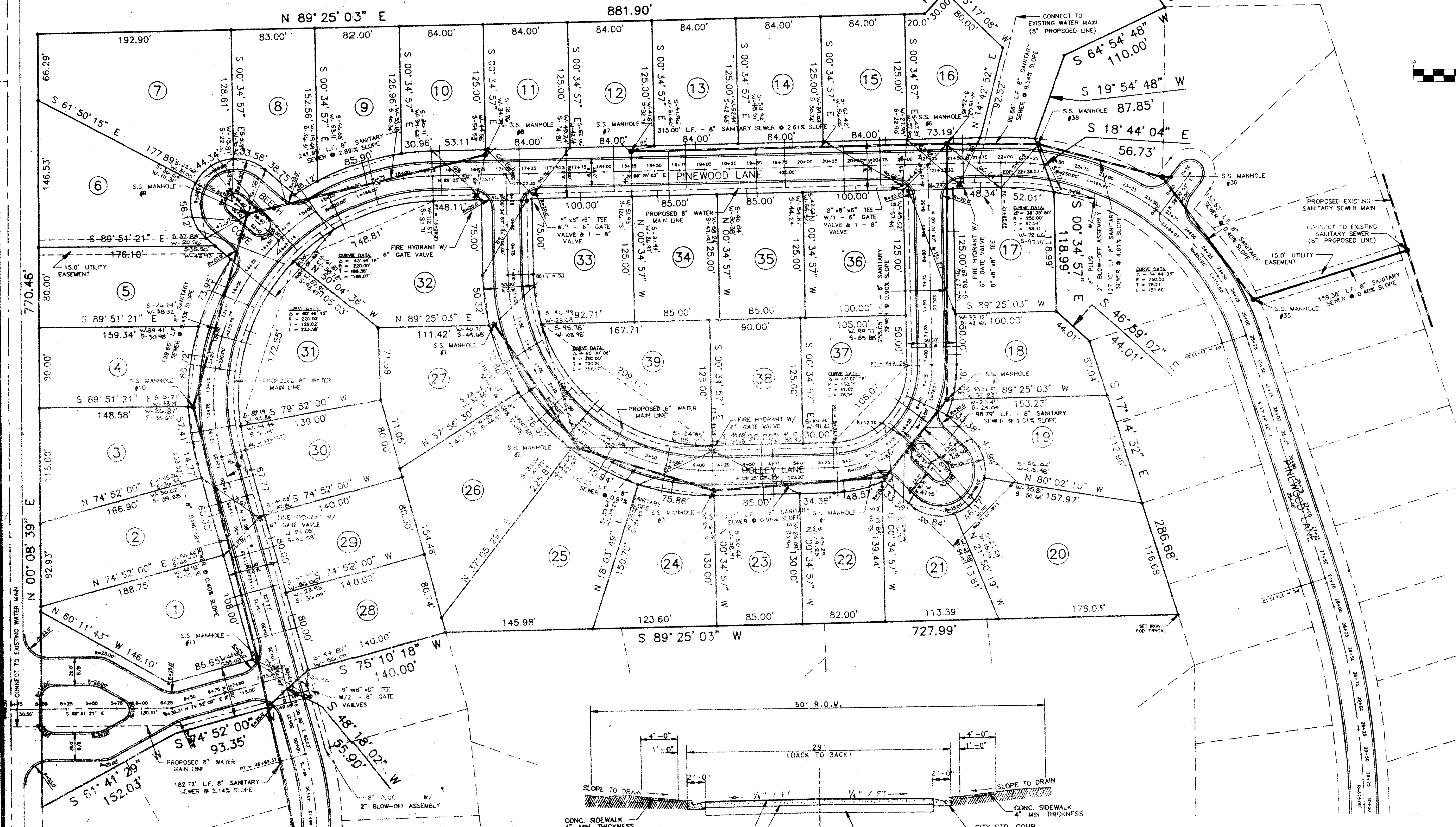
NOTE:  
 2 - 3/4" DOWEL BARS, 15" LONG REQ'D. ●  
 EXPANSION JOINTS THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS, & 1/2" EXPANSION MATERIALS.



RIDGELAND ELEMENTARY SCHOOL

POINT OF BEGINNING  
 Southwesternmost Corner Of Shadowood  
 Subdivision Part 2 Common Area,  
 Plot Cabinet "C", Slide "14"

COMMON AREA



**SHADOWOOD SUBDIVISION  
 PART 3A**

**GENERAL LAYOUT**

Prepared By:  
**Browning, Inc.**  
 CONSULTING ENGINEERS - SURVEYORS

1055 Ridgewood Place Jackson, Mississippi 39211 Ph. (601) 927-1500

DESIGNED BY: PLS SCALE: 1"=50' SHEET No. 2 OF 13  
 DRAWN BY: JSR DATE: 7/20/99



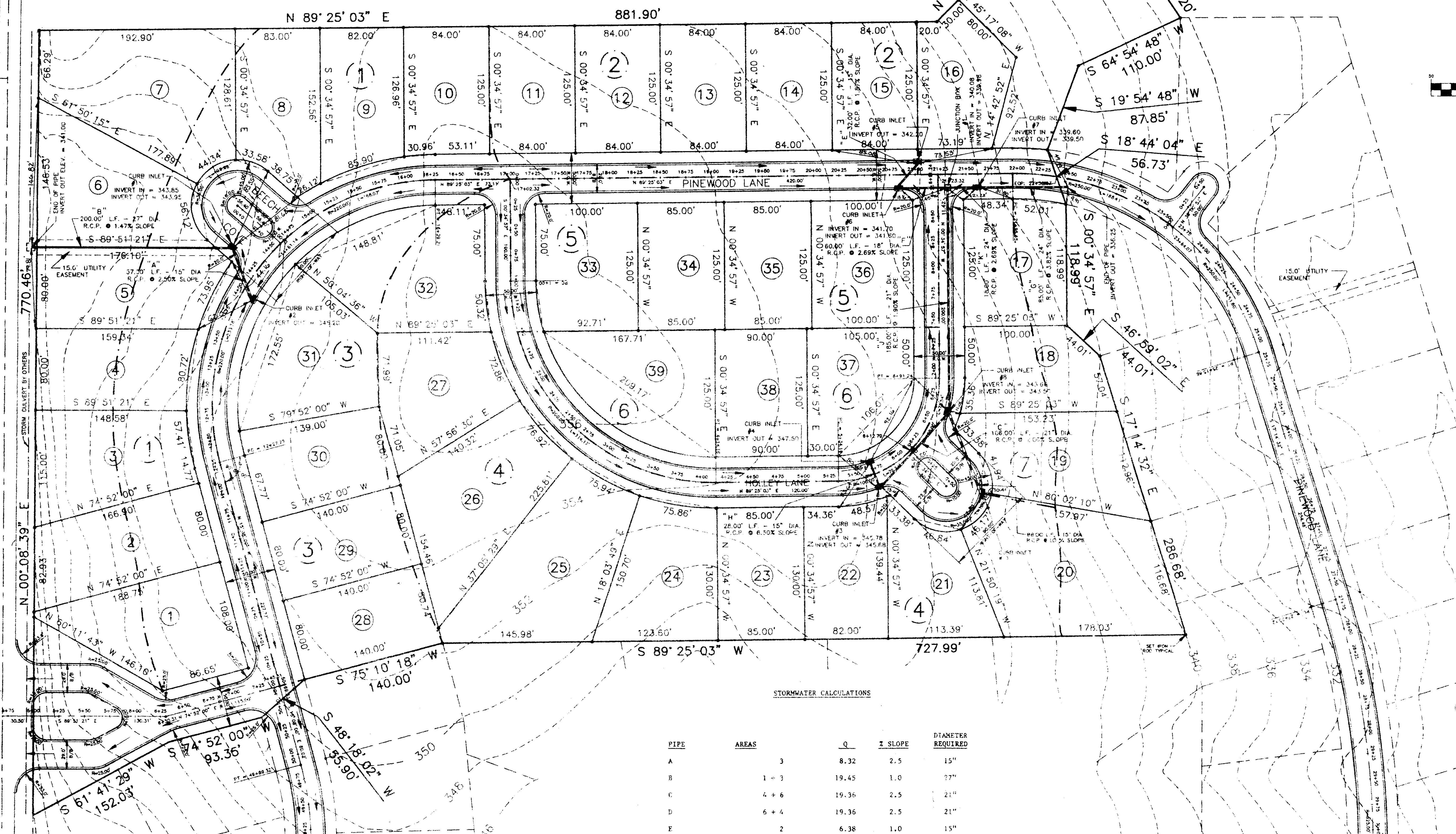
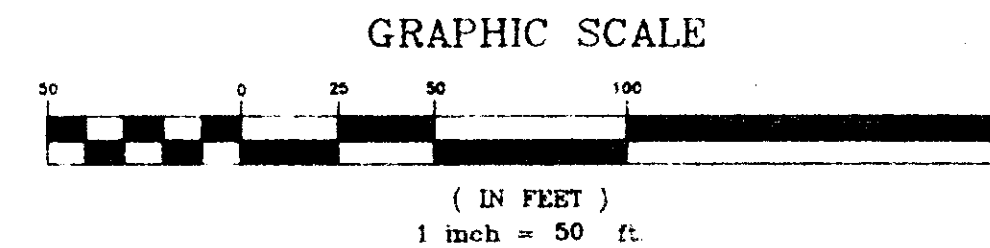
GENERAL NOTES:

- 1.) ALL DISTANCES ALONG CURVES ARE EXPRESSED AS CHORD DISTANCES.
- 2.) ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF RIDGELAND SUBDIVISION REGULATIONS.
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RIDGELAND ELEMENTARY SCHOOL

POINT OF BEGINNING  
Southwesternmost Corner Of Shadowwood  
Subdivision Part 2 Common Area,  
Plot Cabinet "C", Slide "14"

COMMON AREA



STORMWATER CALCULATIONS

PIPE	AREAS	Q	Z SLOPE	DIAMETER REQUIRED
A	3	8.32	2.5	15"
B	1 + 3	19.45	1.0	27"
C	4 + 6	19.36	2.5	21"
D	6 + 4	19.36	2.5	21"
E	2	6.38	1.0	15"
F	2 + 5	12.76	2.5	18"
G	2 + 4 + 5 + 6 + 7	34.76	3.0	24"
H	6	6	1.5	15"
J	4 + 7 + 6	21.96	1.5	21"
K	2 + 4 + 5 + 6 + 7	31.72	2.5	24"

**SHADOWOOD SUBDIVISION  
PART 3A**

**DRAINAGE LAYOUT**

Prepared By:  
**Browning, Inc.**  
CONSULTING ENGINEERS - SURVEYORS

1058 Ridgewood Place Jackson, Mississippi 39211 Ph. (601)-557-3500

DESIGNED BY: P.L.P. SCALE: 1" = 50' SHEET No. 3 OF 13  
DRAWN BY: J.S.R. DATE: 07/24/96



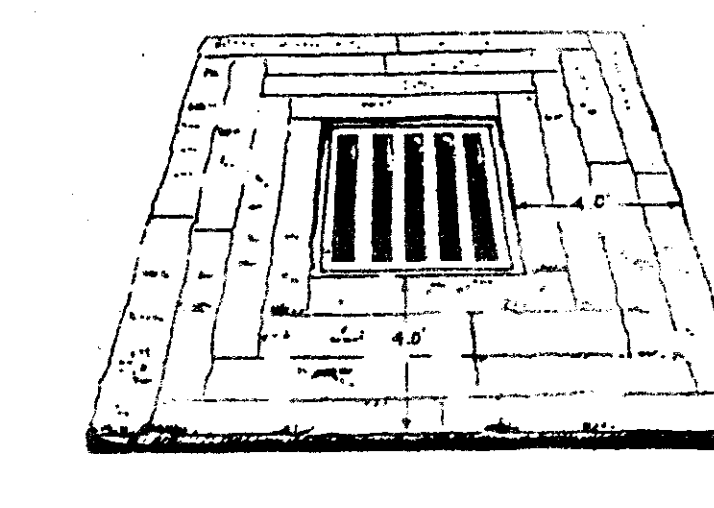
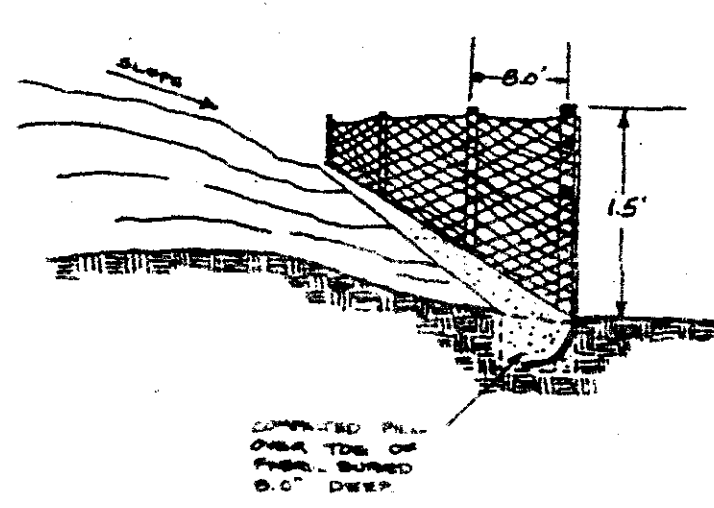
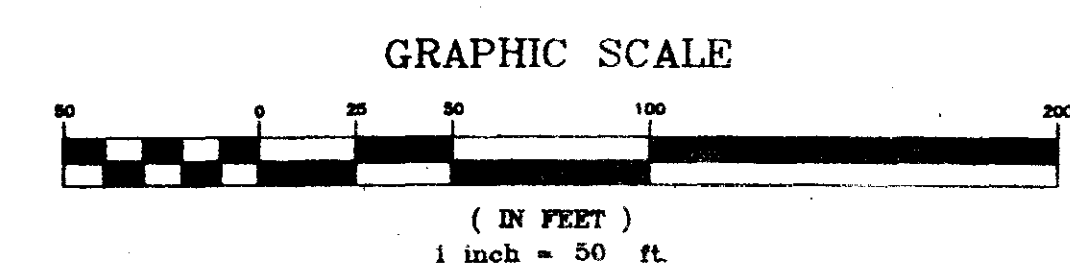
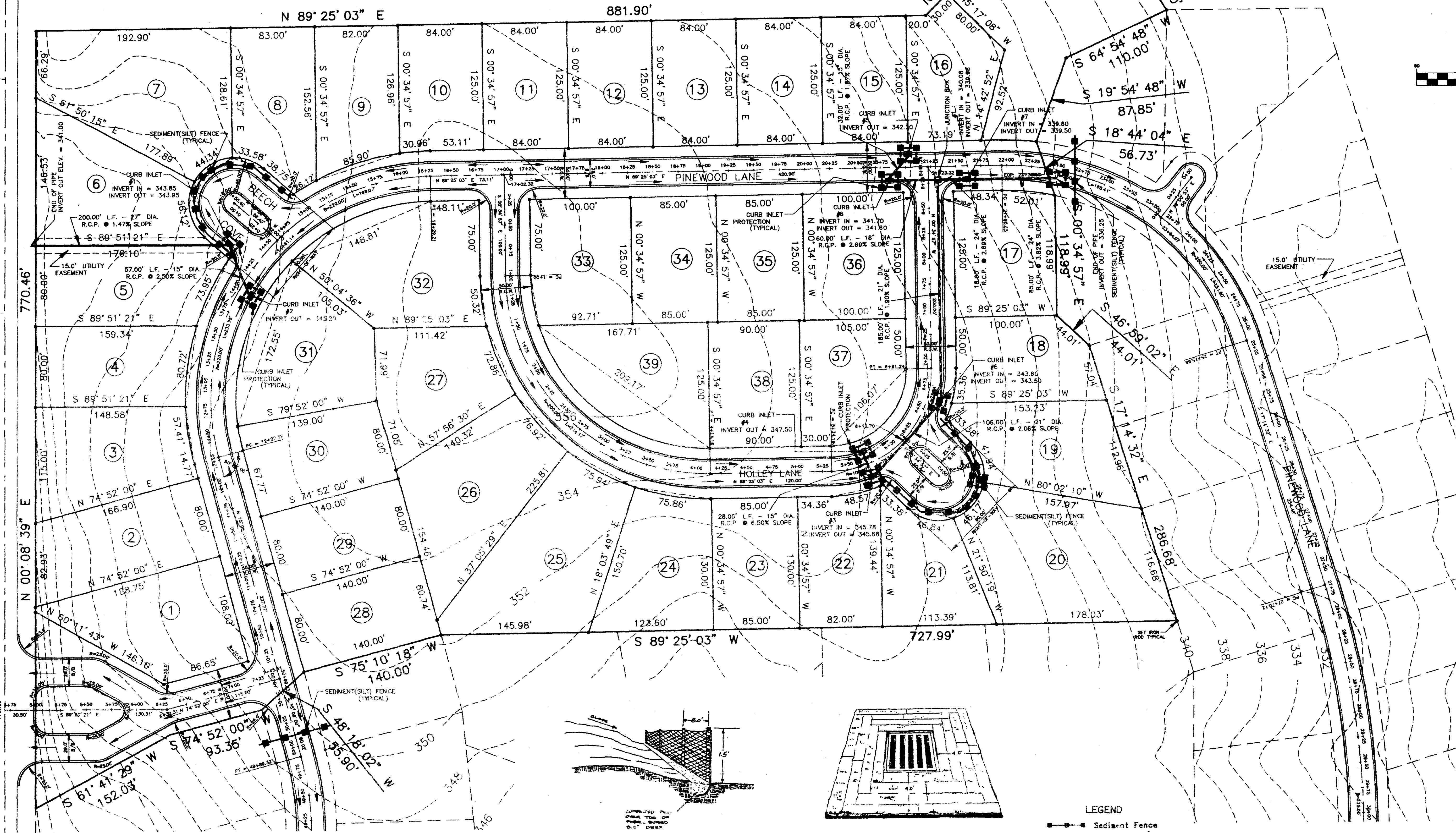
**GENERAL NOTES:**

- 1.) ALL DISTANCES ALONG CURVES ARE EXPRESSED AS CHORD DISTANCES.
- 2.) ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF RIDGELAND SUBDIVISION REGULATIONS.
- 2.) CONTOURS SHOWN ARE REFERENCED TO M.S.L. (MEAN SEA LEVEL) DATUM. CONTOUR INTERVAL IS 2.0'.
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**RIDGELAND ELEMENTARY SCHOOL**

**POINT OF BEGINNING**  
 Southwesternmost Corner Of Shadowwood  
 Subdivision Part 2 Common Area,  
 Plat Cabinet "C", Slide "14"

COMMON AREA



- LEGEND**
- Sediment Fence
  - Storm Drain Inlet Protection
  - Rip-Rap As Req'd

**SHADOWWOOD SUBDIVISION**  
**PART 3A**

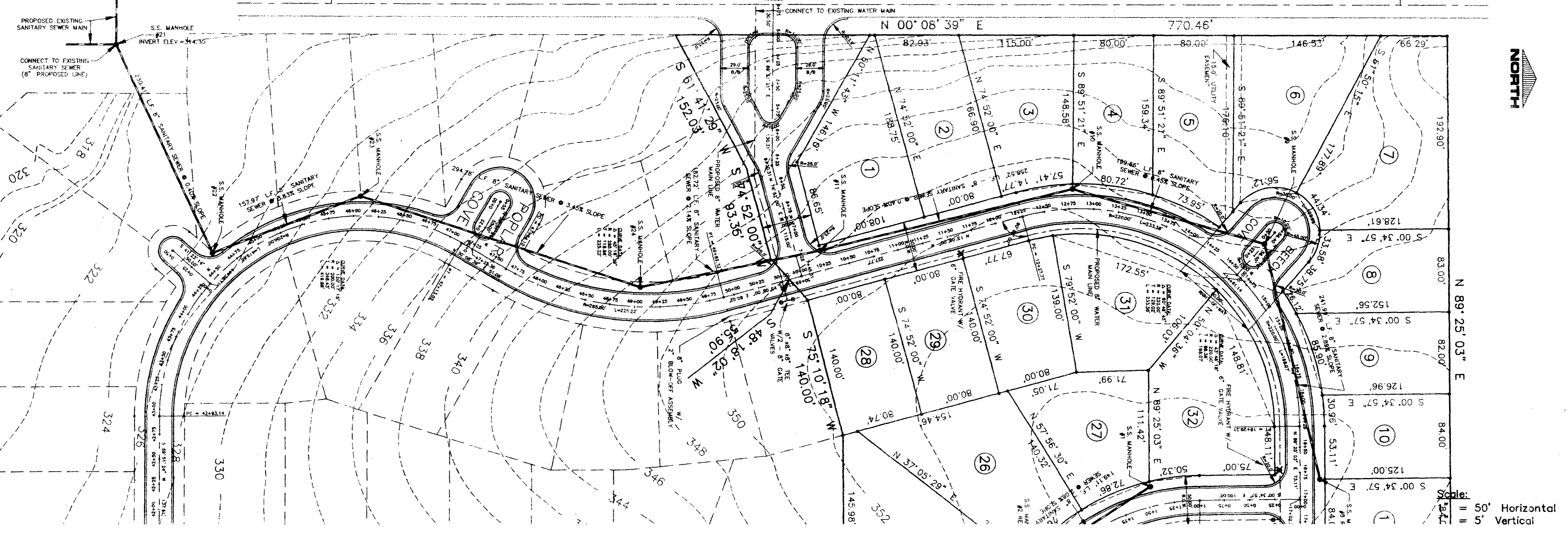
**S.W. SILTATION PREVENTION PLAN**

Prepared By:  
**Browning, Inc.**  
 CONSULTING ENGINEERS - SURVEYORS

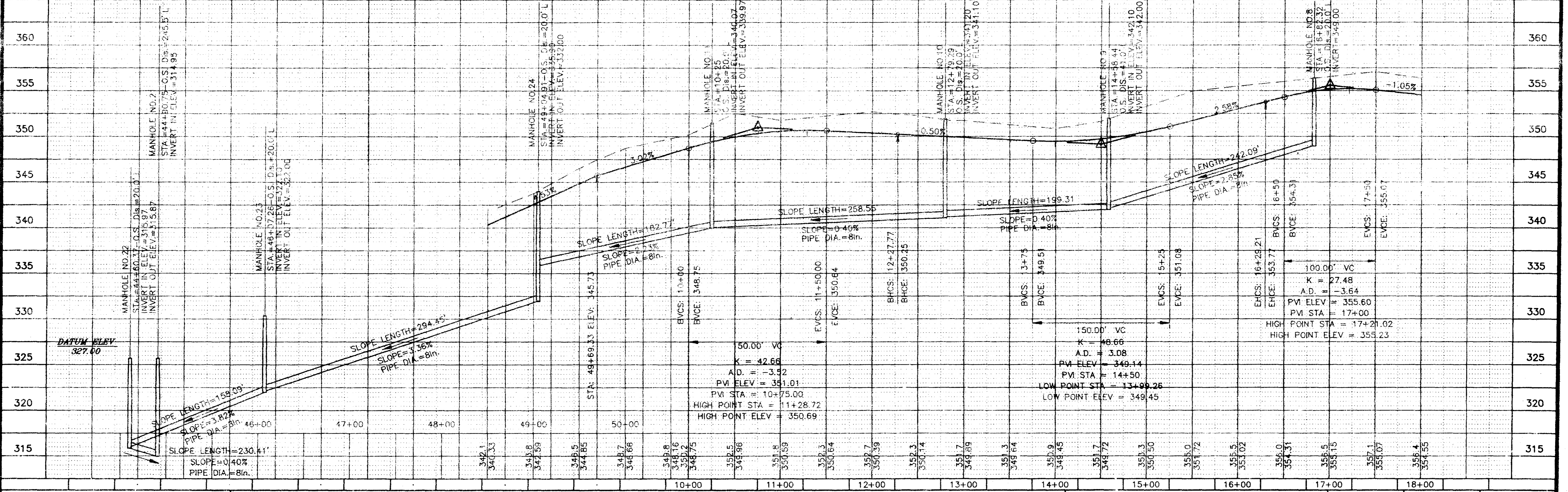
1058 Ridgewood Place Jackson, Mississippi 39211 Ph. (601)-957-7541

DESIGNED BY: FLD SCALE: 1"=50' SHEET No. 4 OF 13  
 DRAWN BY: JGR DATE: 01/29/24





Scale: 1" = 50' Horizontal  
1" = 5' Vertical



10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00
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Prepared By  
**Browning, Inc.**  
CONSULTING ENGINEERS - SURVEYORS  
1000 Ridgeway Place  
Jackson, Mississippi 39211  
PH. (601) 957-3500

**PLAN AND PROFILE  
PINWOOD LANE - MAIN LOOP STREET**

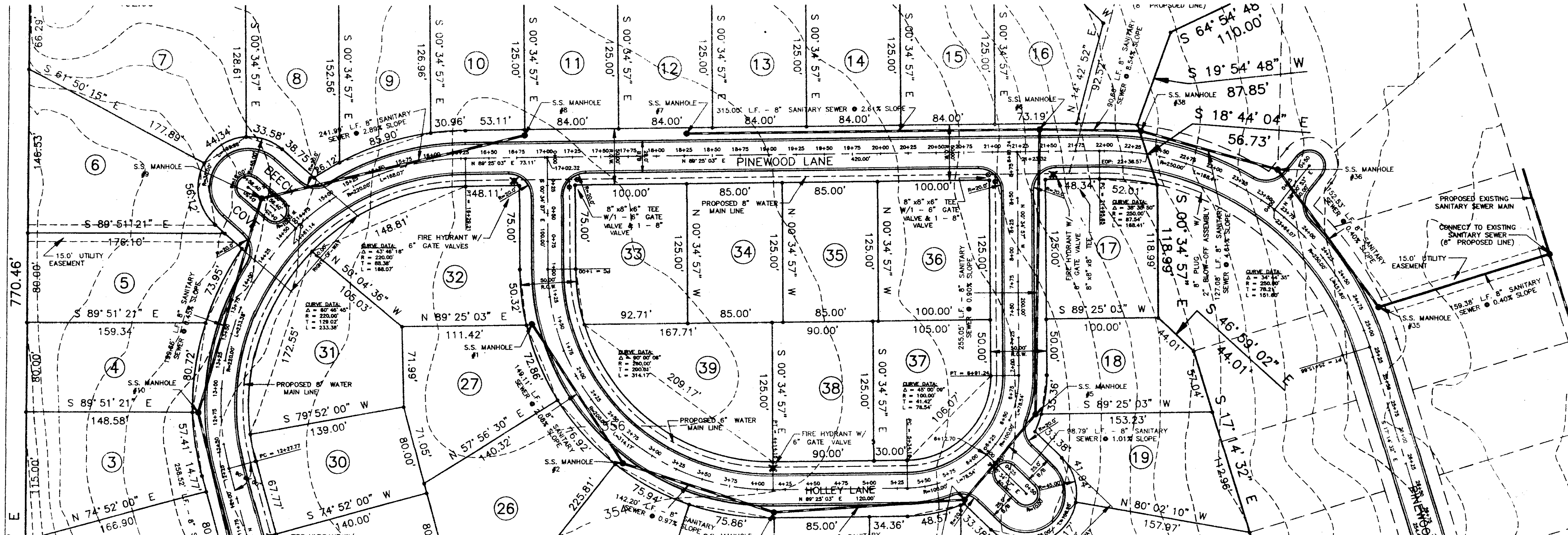
**SHADOWOOD SUBDIVISION  
PART 3A**

DESIGNED BY: P.L.B. SCALE: 1" = 50'  
DRAWN BY: J.S.R. DATE: 07/21/36  
SHEET No. **5** OF 13

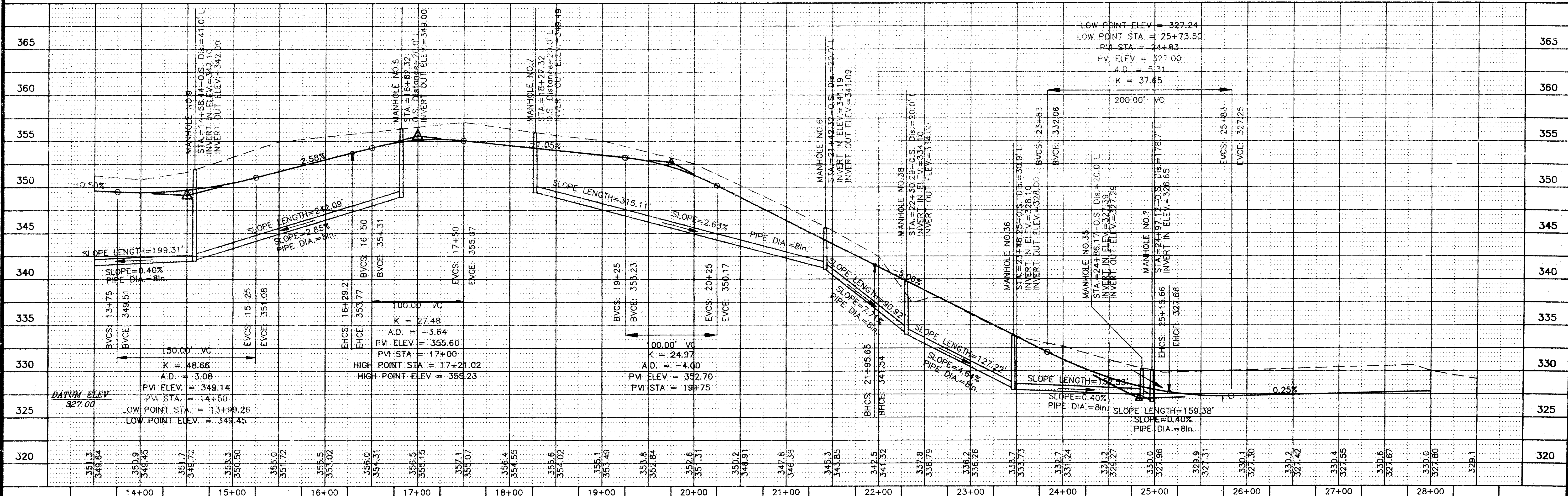


ORCHARD

ACE



Scale:  
 1" = 50' Horizontal  
 1" = 5' Vertical



Prepared By  
**Browning, Inc.**  
 CONSULTING ENGINEERS - SURVEYORS  
 Jackson, Mississippi 39211

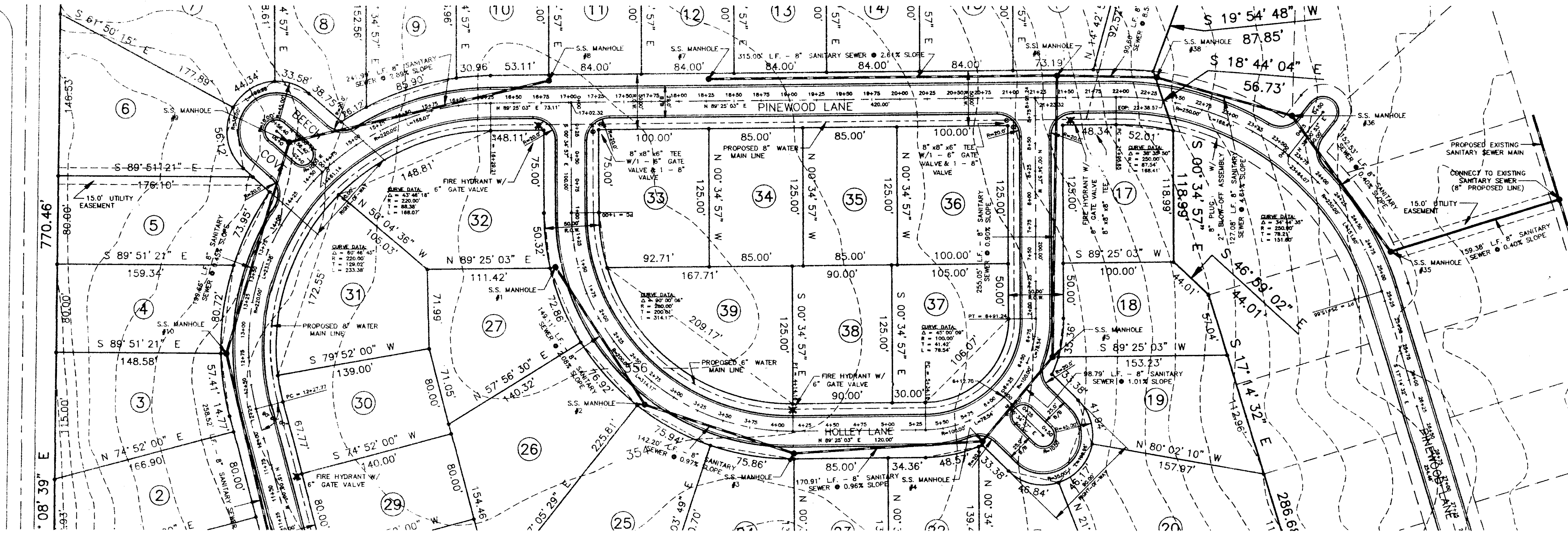
PLAN AND PROFILE  
 PINWOOD LANE - MAIN LOOP STREET

**SHADOWOOD SUBDIVISION**  
 PART 3A

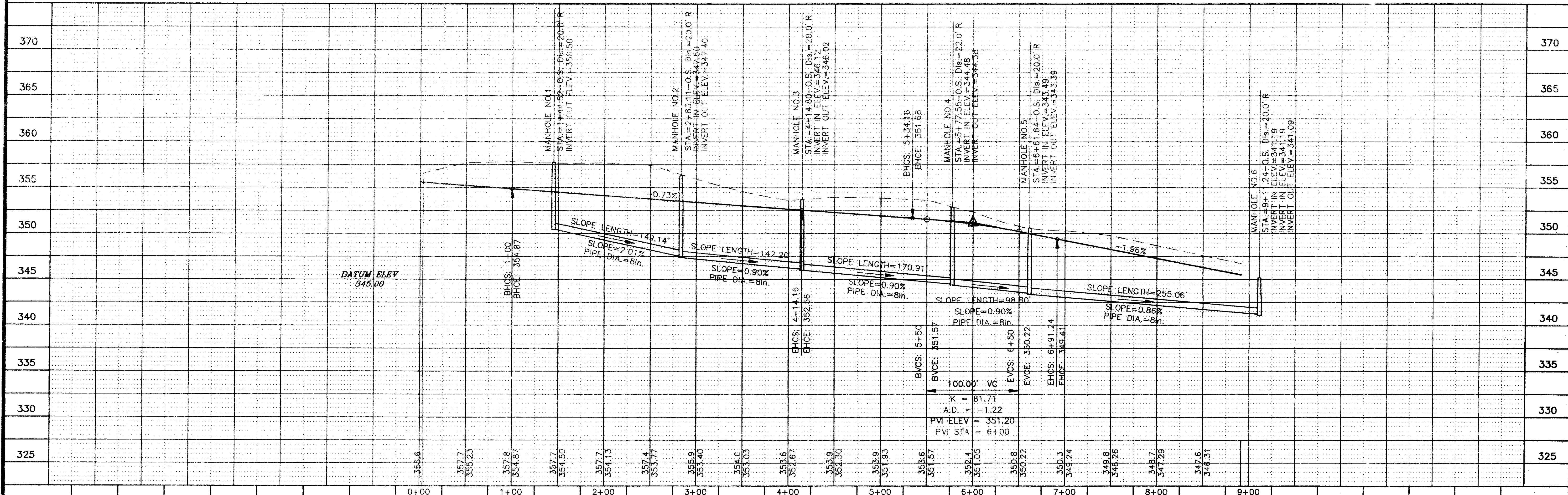
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 DRAWN BY: JER DATE: 07/19/96 SHEET No. 6 OF 13



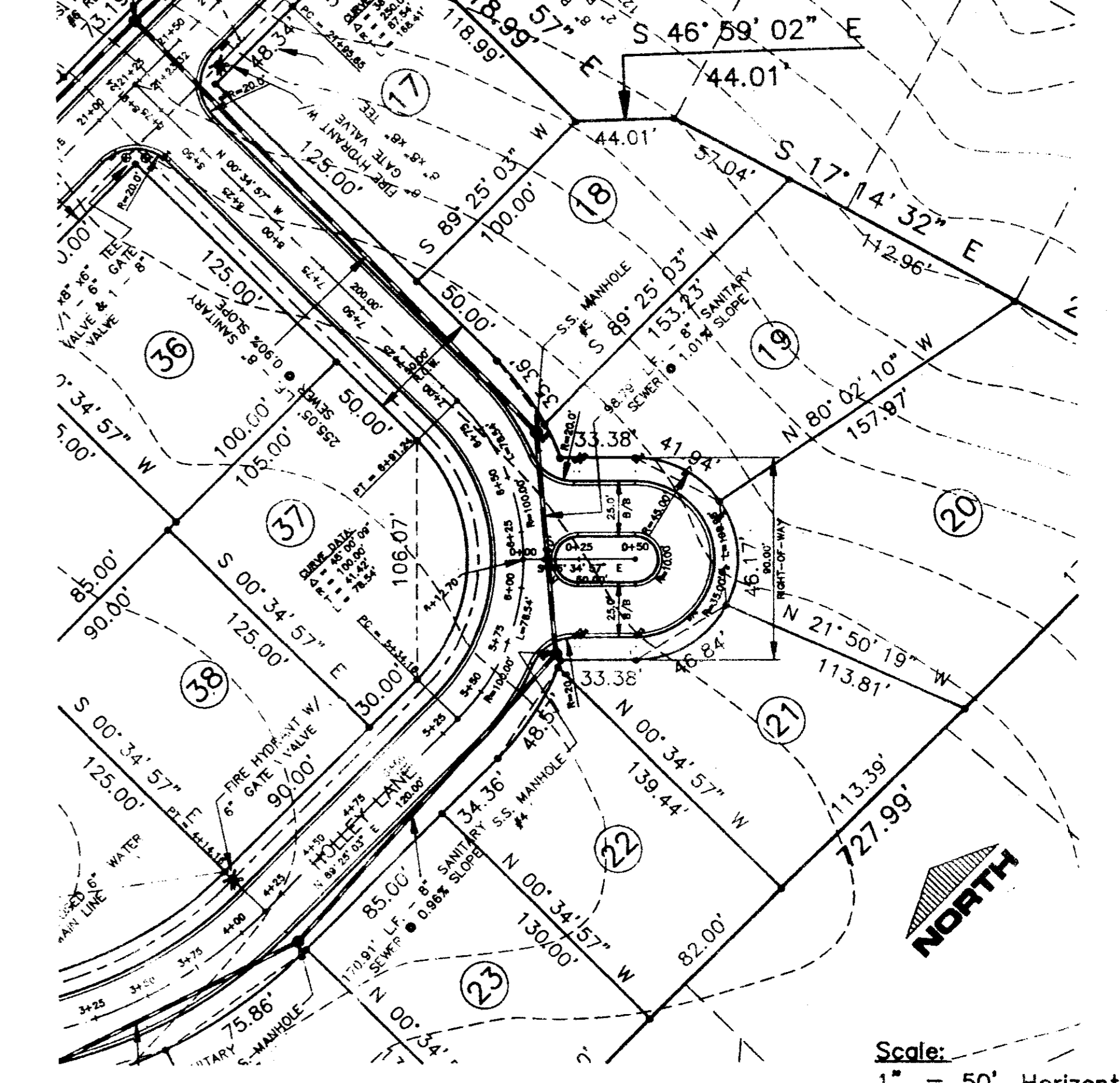
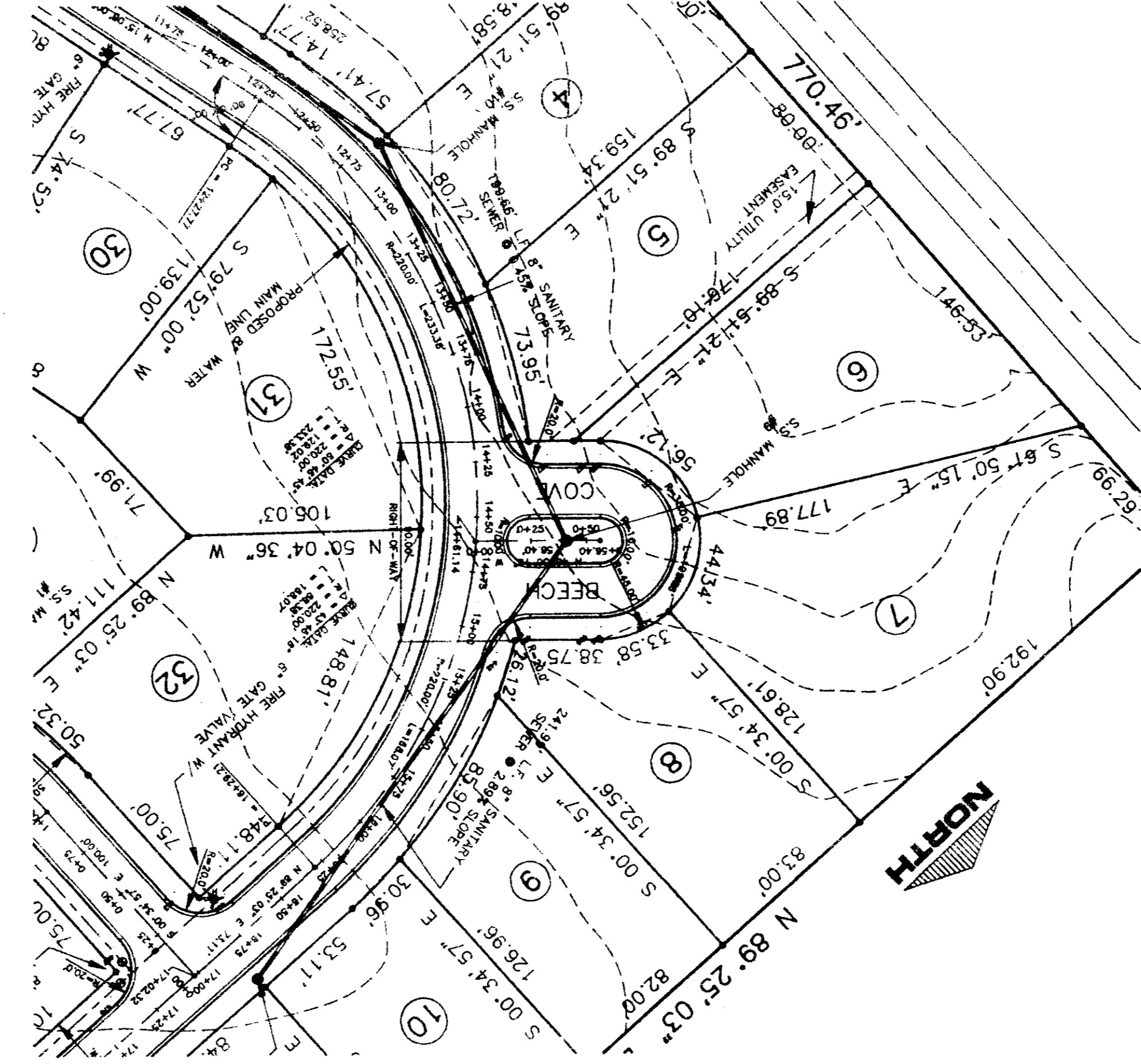
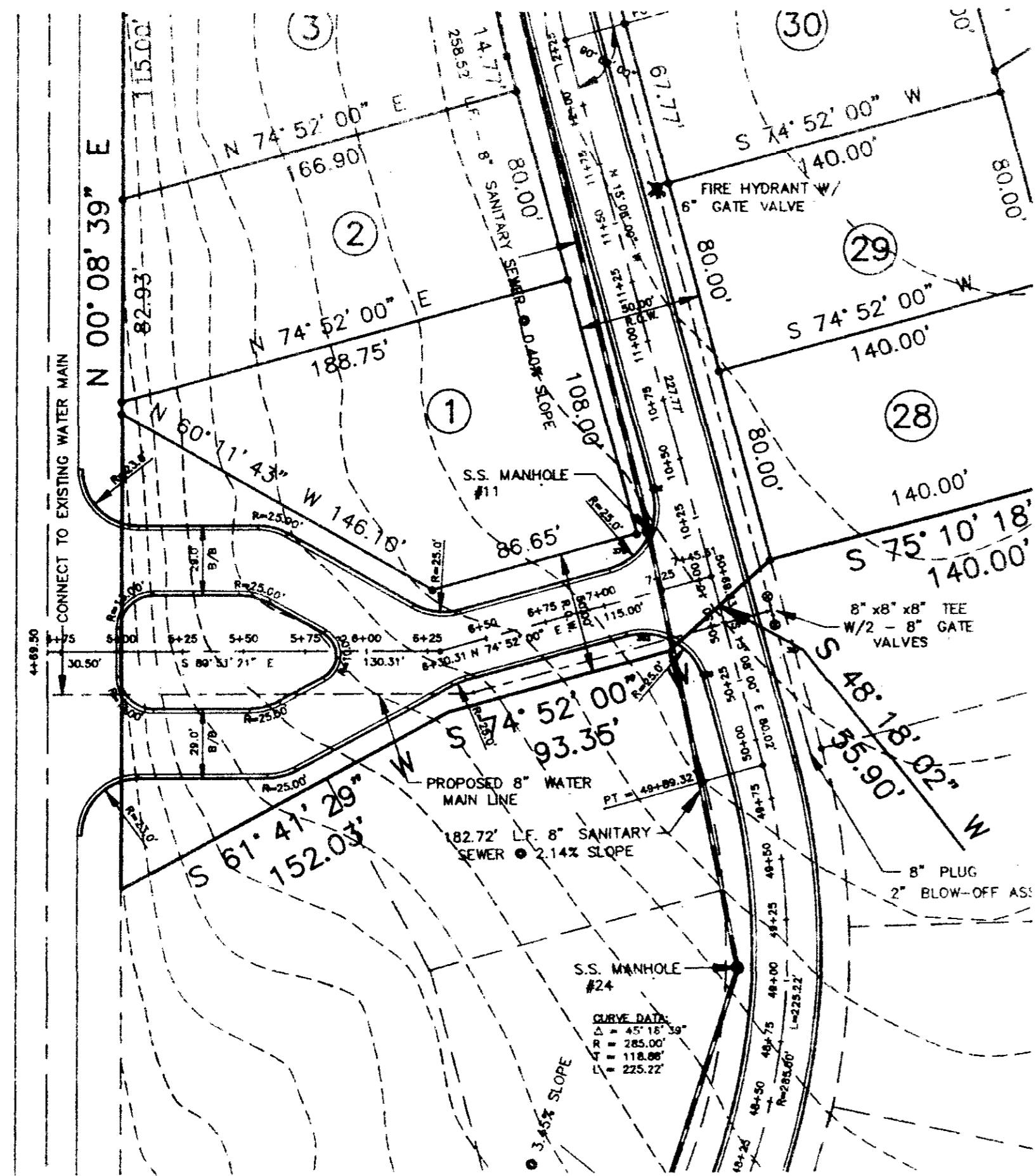
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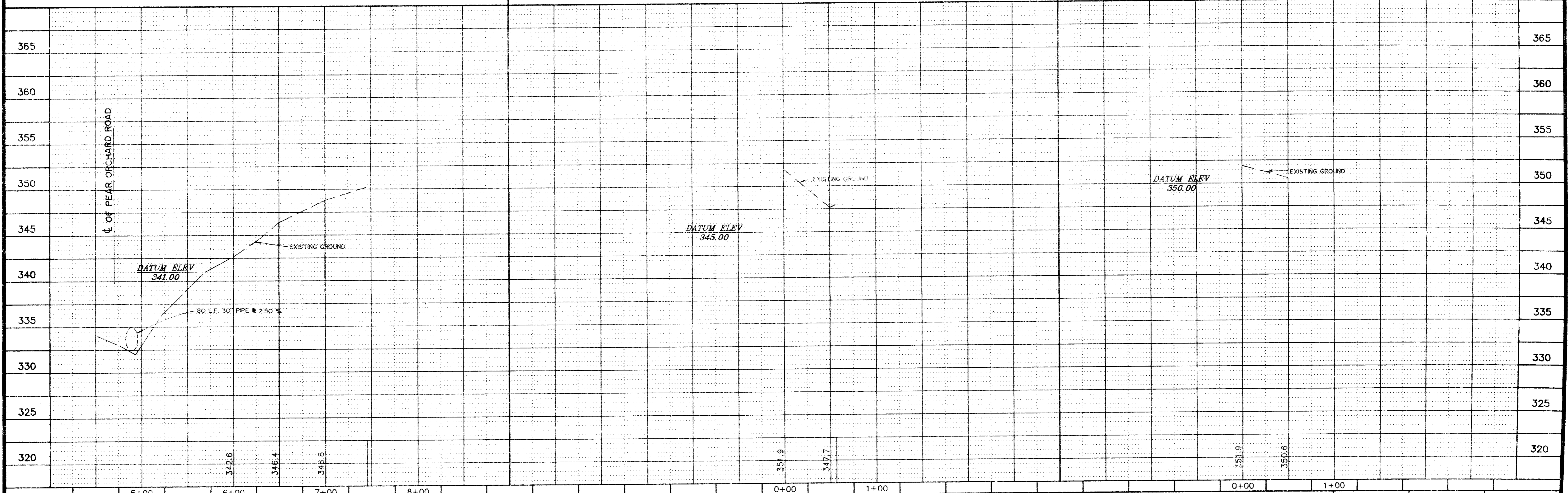
Scale:  
 1" = 50' Horizontal  
 1" = 5' Vertical







Scale:  
 1" = 50' Horizontal  
 1" = 5' Vertical



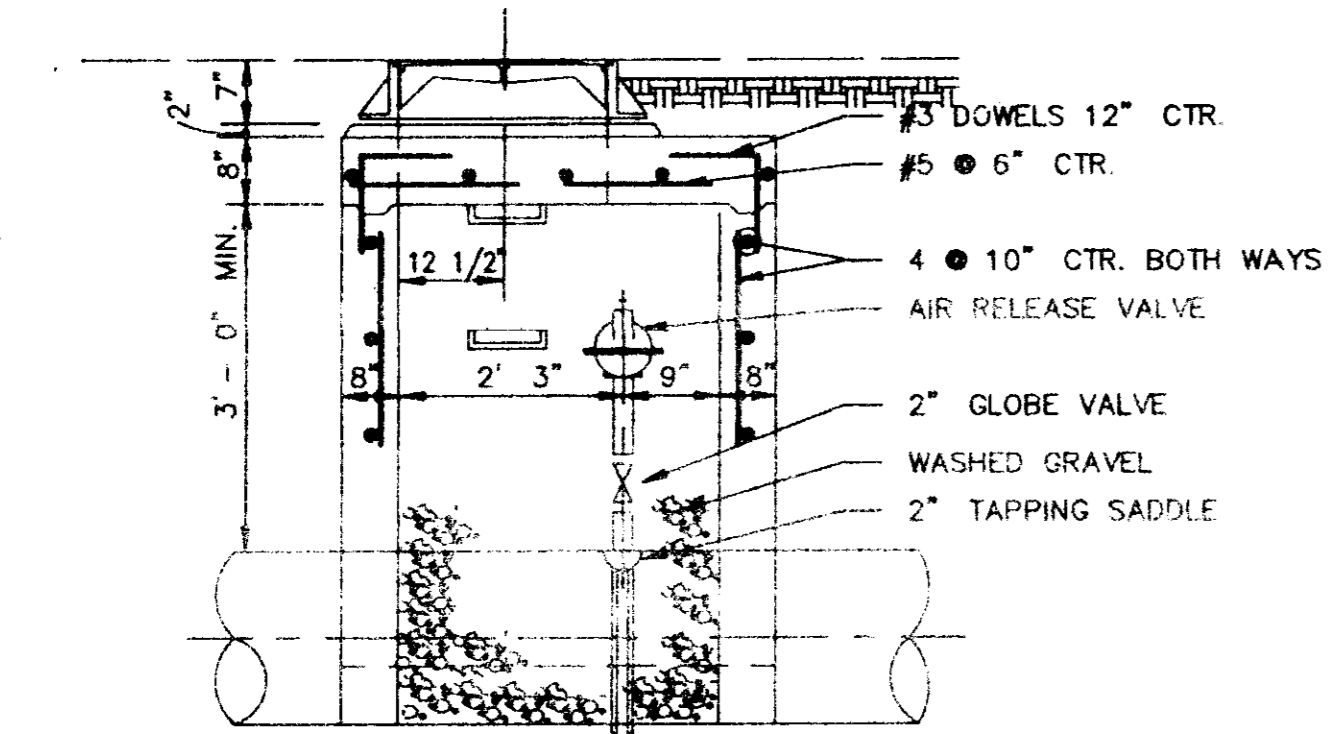
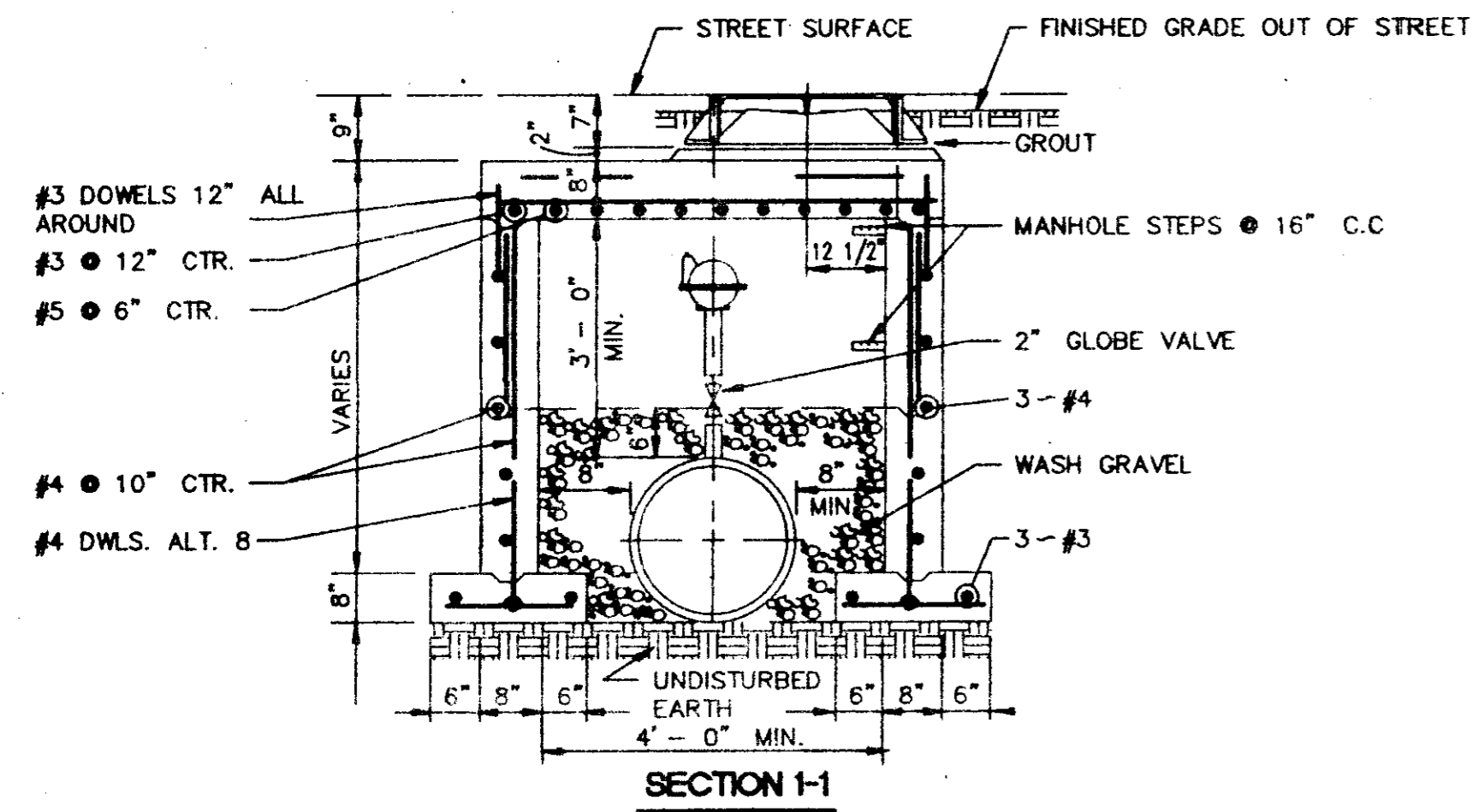
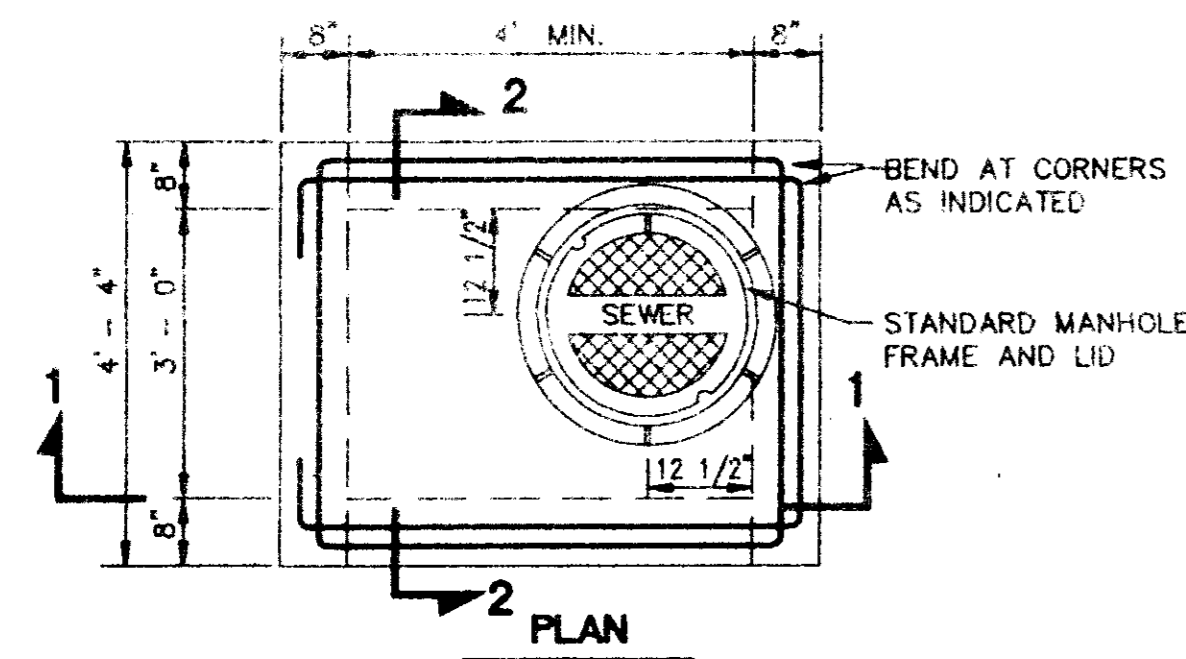
Prepared By  
**Browning, Inc.**  
 CONSULTING ENGINEERS - SURVEYORS  
 1055 Ridgewood Place  
 Jackson, Mississippi 39211 Ph. (601)-957-3500

**PLAN AND PROFILE  
 MAIN ENTRANCE AND CUL-DE-SACS**

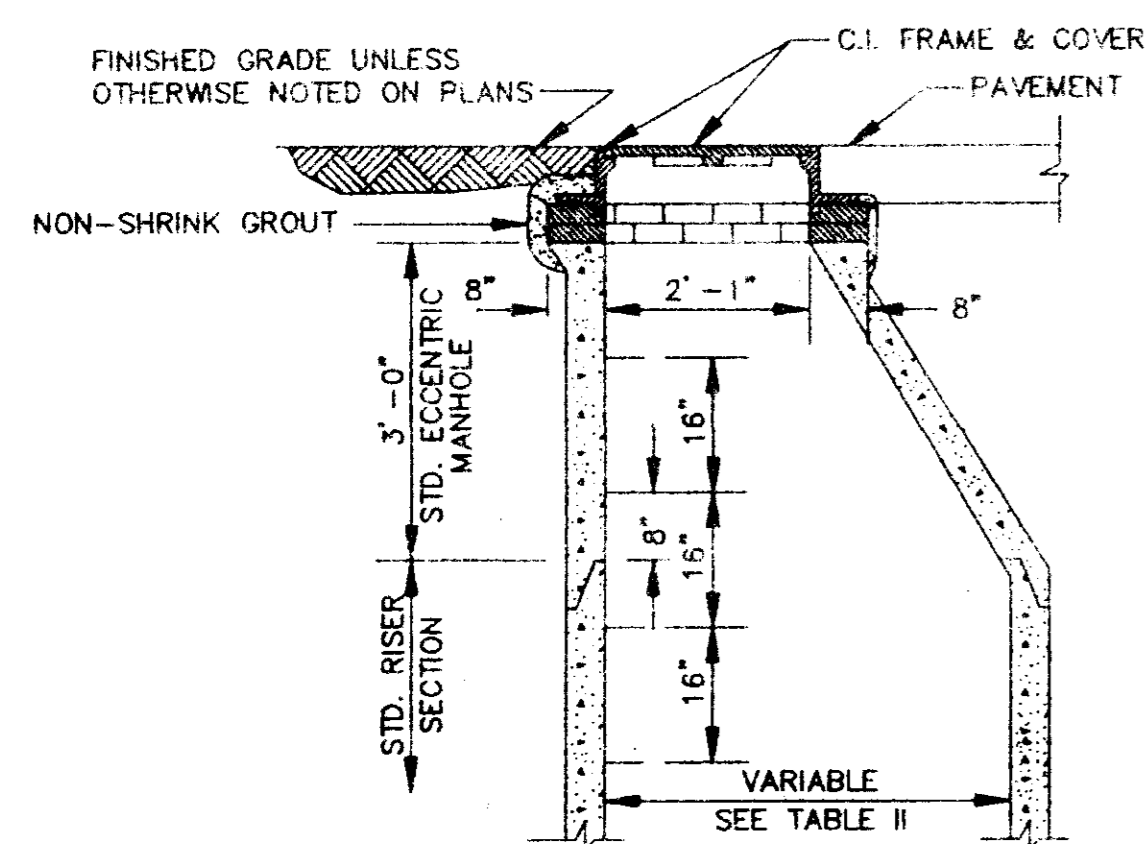
**SHADOWOOD SUBDIVISION  
 PART 3A**

DESIGNED BY: P.L.D. SCALE: 1" = 50'  
 DRAWN BY: J.S.R. DATE: 07/24/96 SHEET No. **8** OF **13**

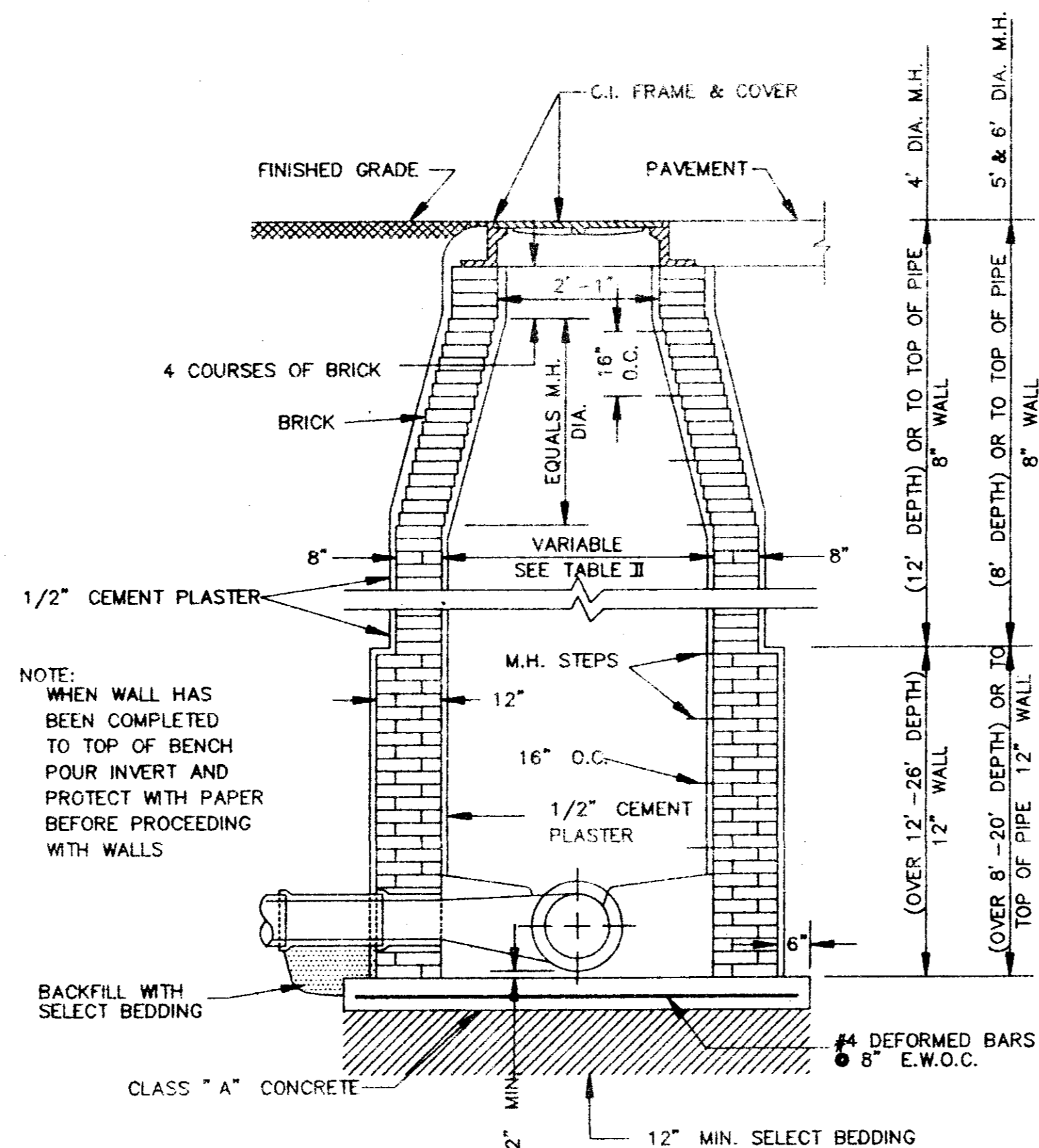




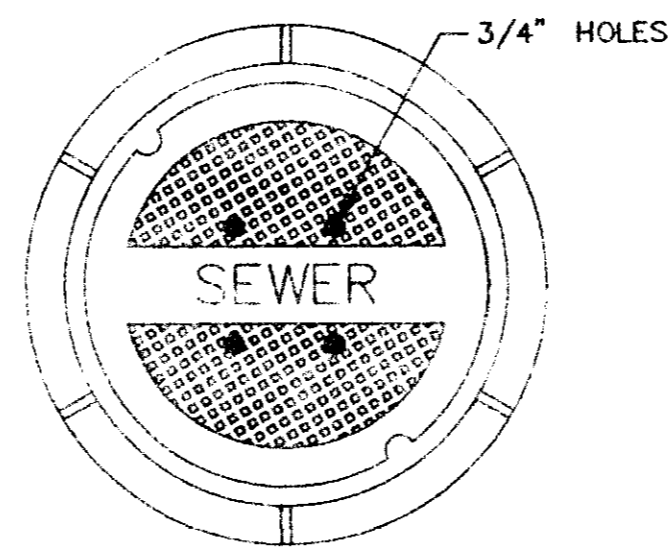
TYPICAL AIR OR AIR VACUUM RELEASE VALVE  
INSTALLATION WITH MANHOLE  
NOT TO SCALE



STANDARD ECCENTRIC CONE  
FOR ALL DIAMETER MANHOLES  
N.T.S.

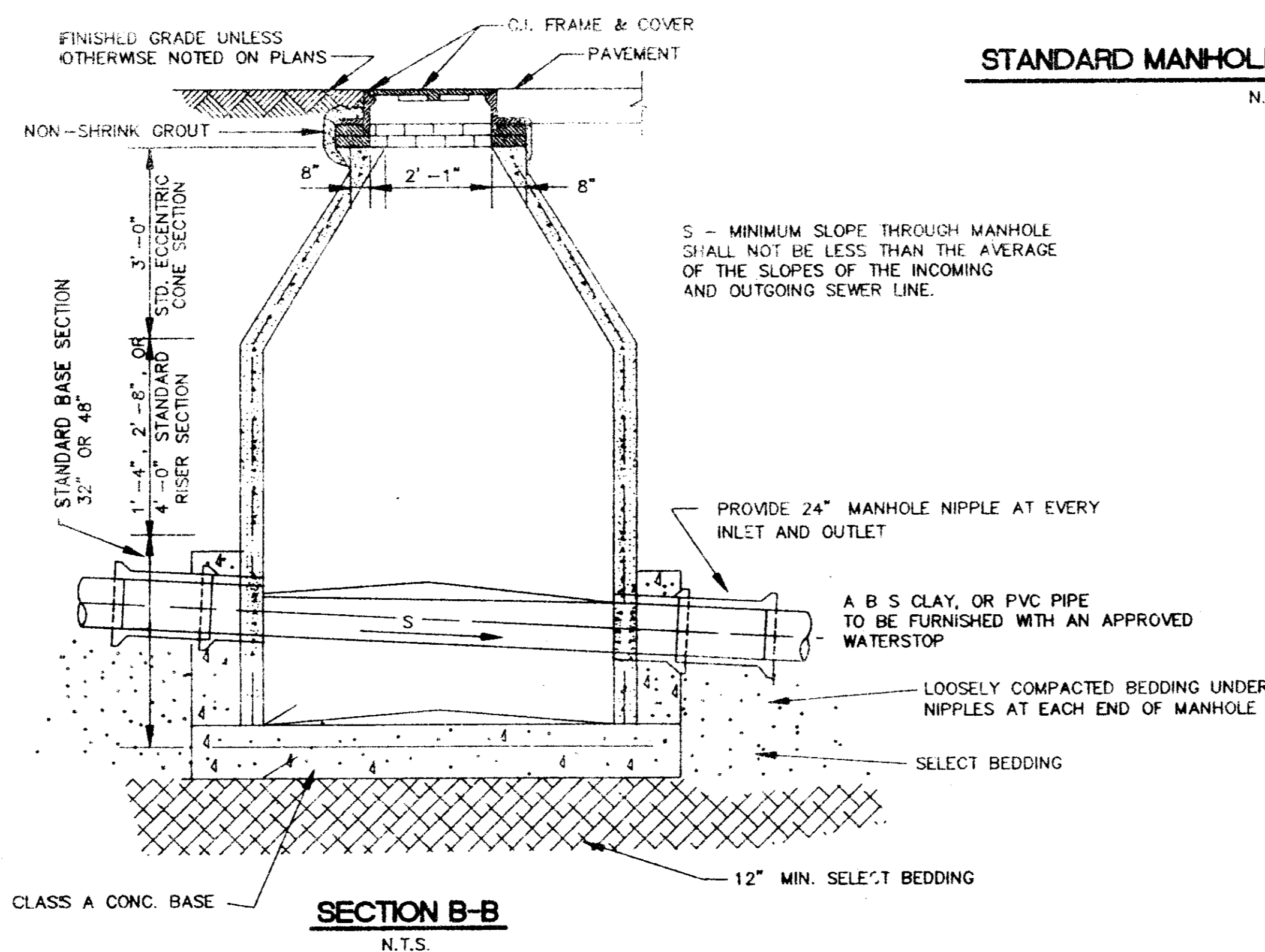


STANDARD BRICK MANHOLE  
N.T.S.

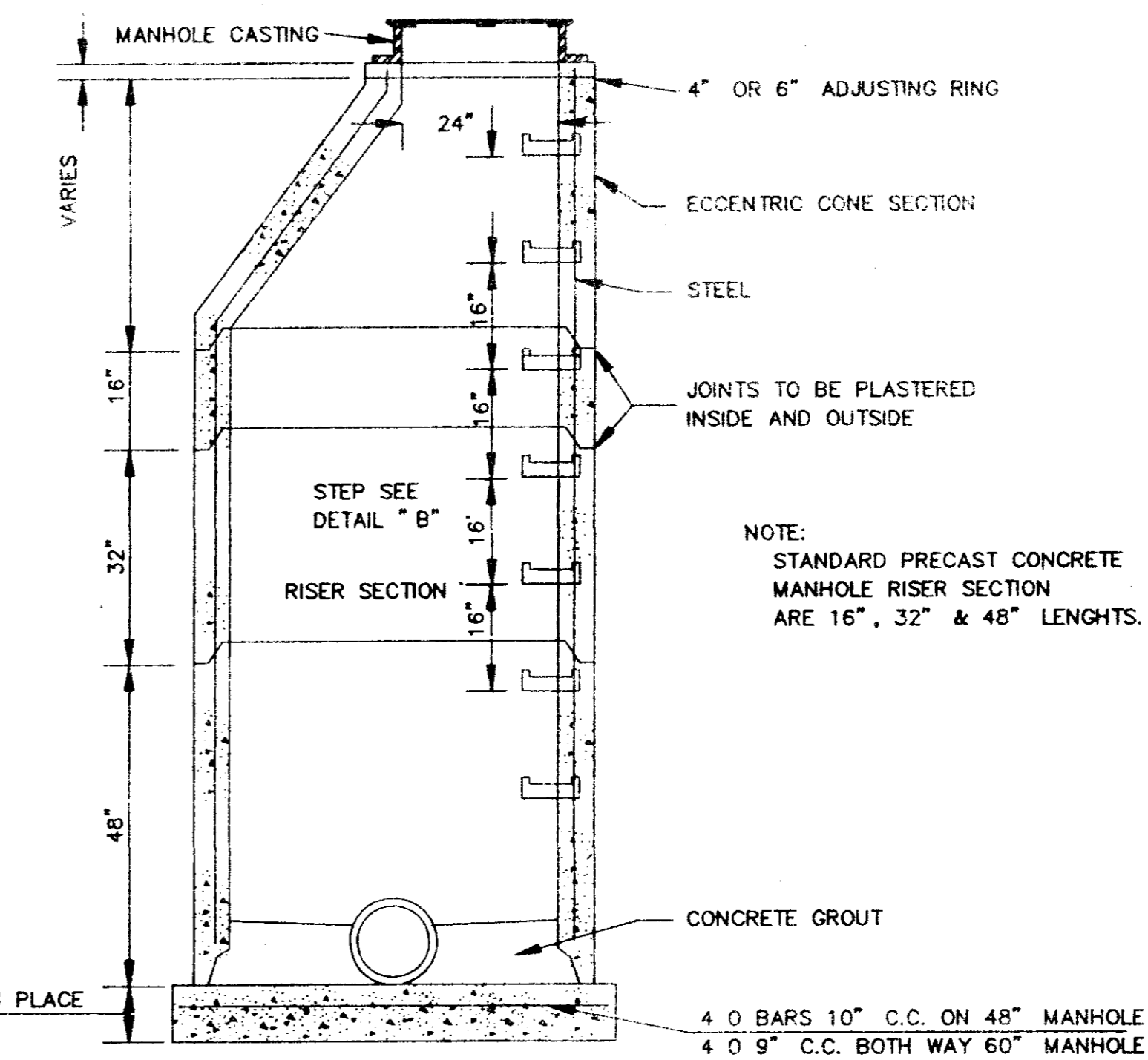


FRAME & COVER WEIGHT 420 LBS.

STANDARD MANHOLE FRAME AND COVER  
N.T.S.



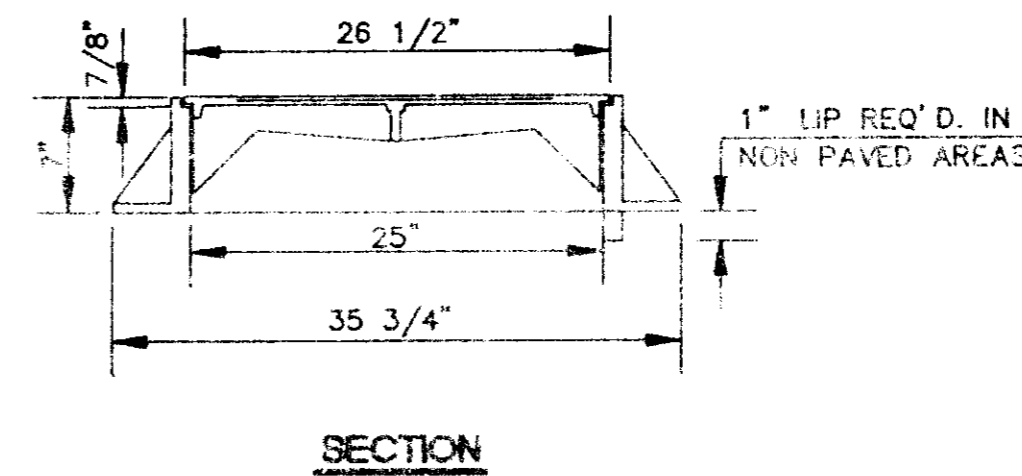
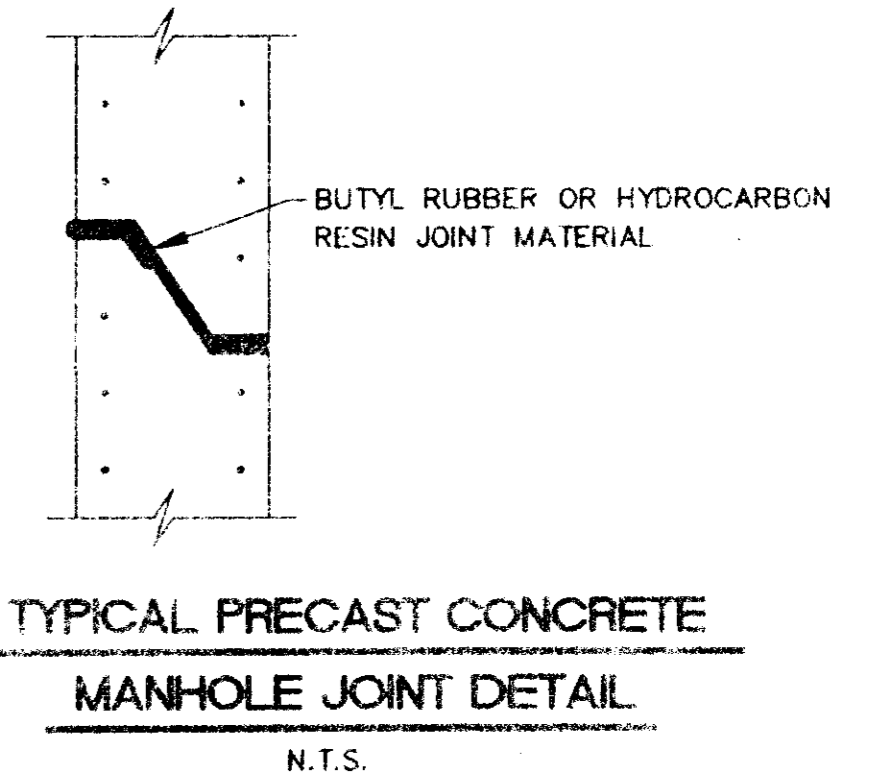
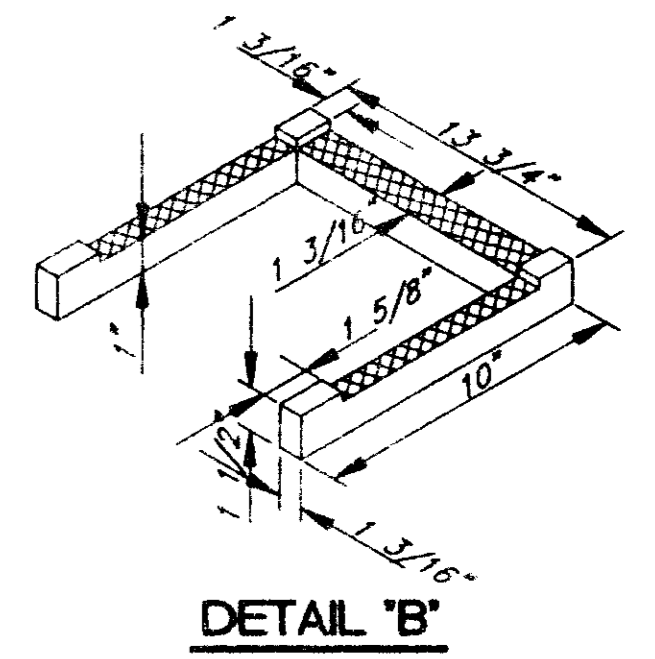
SECTION B-B  
N.T.S.



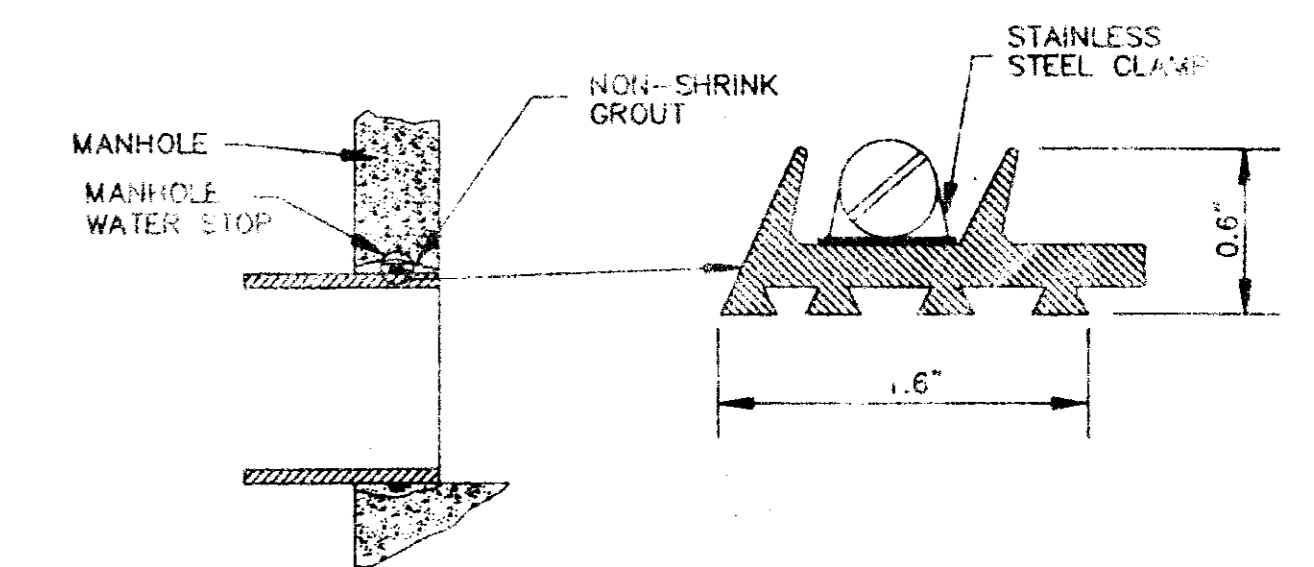
SECTION OF PRECAST CONCRETE MANHOLE  
N.T.S.

TABLE II GOVERNING DIMENSIONS FOR MANHOLES				
PIPE SIZE	ANGLE	BASE DIAMETER **	"R"	
8" THRU 12"	0° TO 90°	4"	1'-6"	
15"	0° TO 60°	4"	1'-10"	
15"	60° TO 90°	4"	1'-10"	
18"	0° TO 60°	4"	2'-3"	
18"	60° TO 90°	4"	1'-10"	
21"	0° TO 60°	4"	2'-7"	
21"	60° TO 90°	5"	2'-4"	
24"	0° TO 45°	4"	3'-0"	
24"	45° TO 90°	5"	2'-3"	
30"	0° TO 60°	5"	3'-9"	
30"	60° TO 90°	6"	2'-8"	
36"	0° TO 60°	6"	4'-6"	
36"	60° TO 90°	7"	3'-11"	
42"	0° TO 60°	7"	5'-3"	
42"	60° TO 90°	8"	4'-7"	
48"	0° TO 60°	8"	6'-0"	
48"	60° TO 90°	9"	5'-3"	

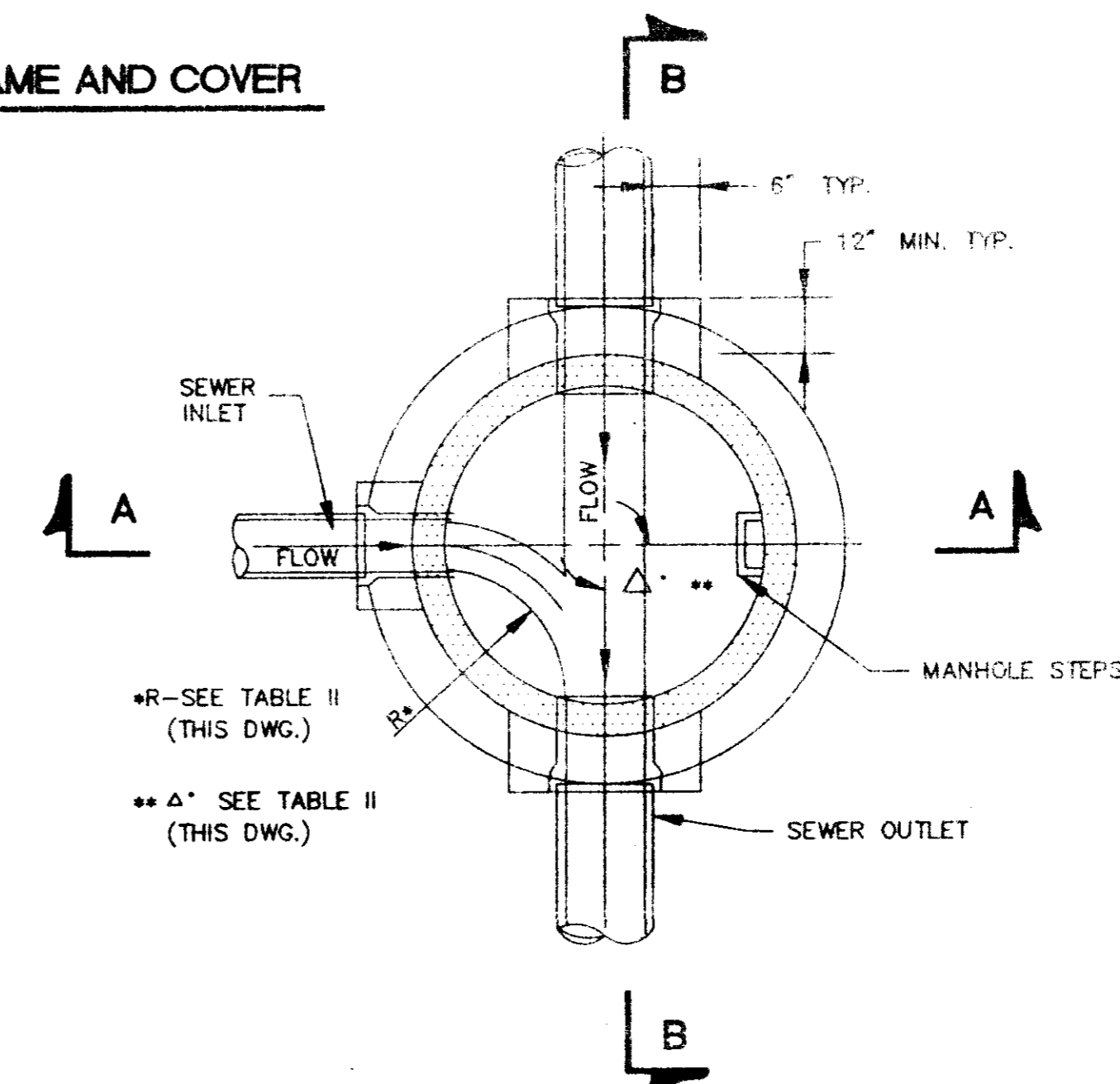
\* SEE SECTIONAL PLAN, STANDARD MANHOLE  
\*\* PRECAST MANHOLE



SECTION



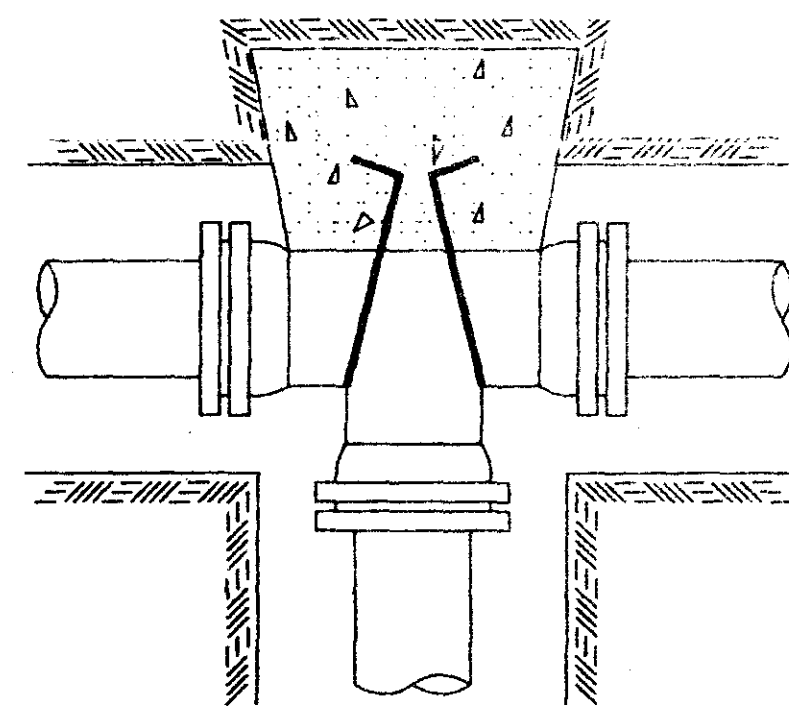
TYPICAL MANHOLE WATER STOP  
FOR ABS, CLAY OR PVC PIPE  
EXISTING AND "STRADDLE" MANHOLES  
N.T.S.



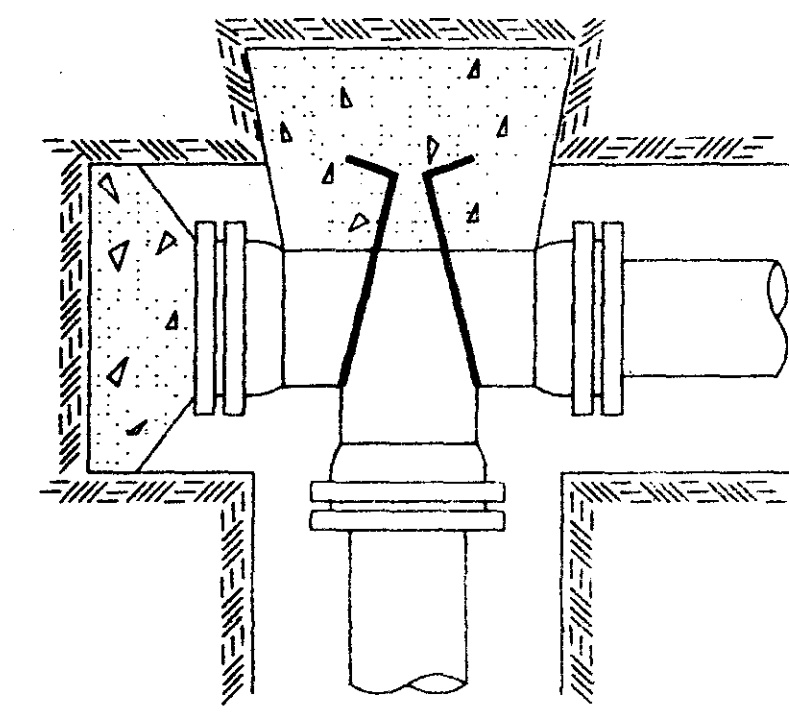
SECTIONAL PLAN  
STANDARD MANHOLE  
N.T.S.

**SHADOWOOD SUBDIVISION**  
PART 3A  
**TYPICAL MANHOLE DETAILS**  
Prepared By:  
**Browning, Inc.**  
CONSULTING ENGINEERS - SURVEYORS  
1058 Ridgewood Place Jackson, Mississippi 39211 PH. (601)-957-3562  
DESIGNED BY: PLB SCALE: NONE SHEET No. 9  
DRAWN BY: JSR DATE: 02/14/95 OF 13

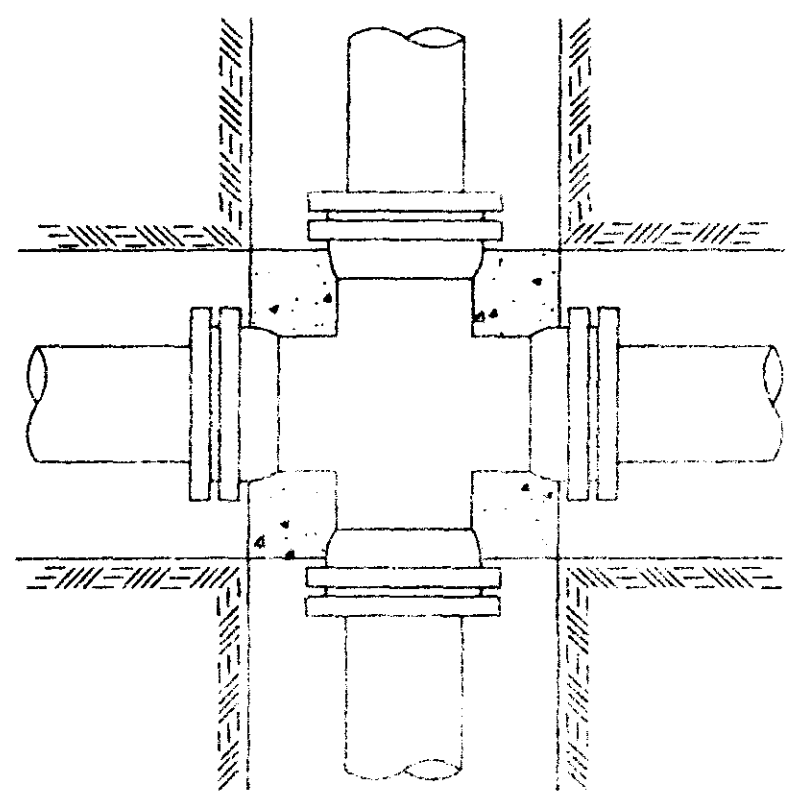




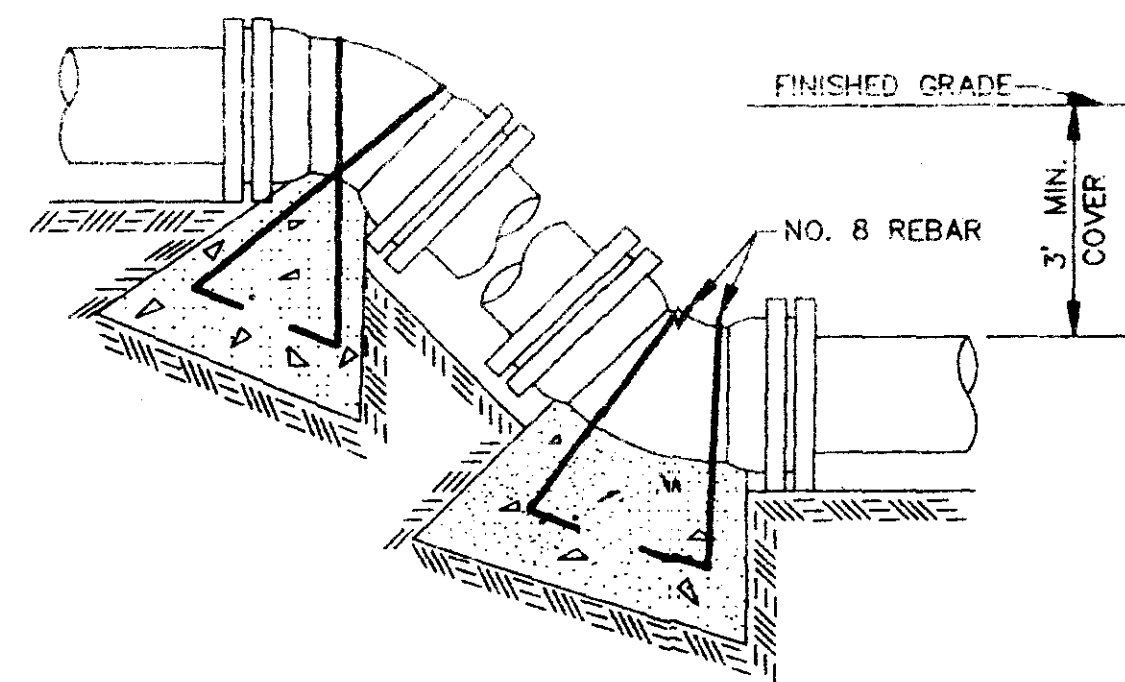
TEE



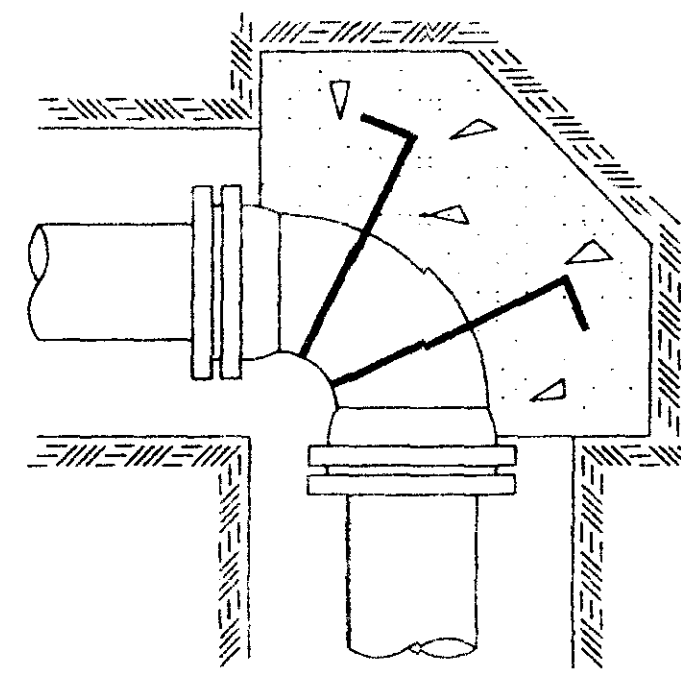
PLUGGED TEE



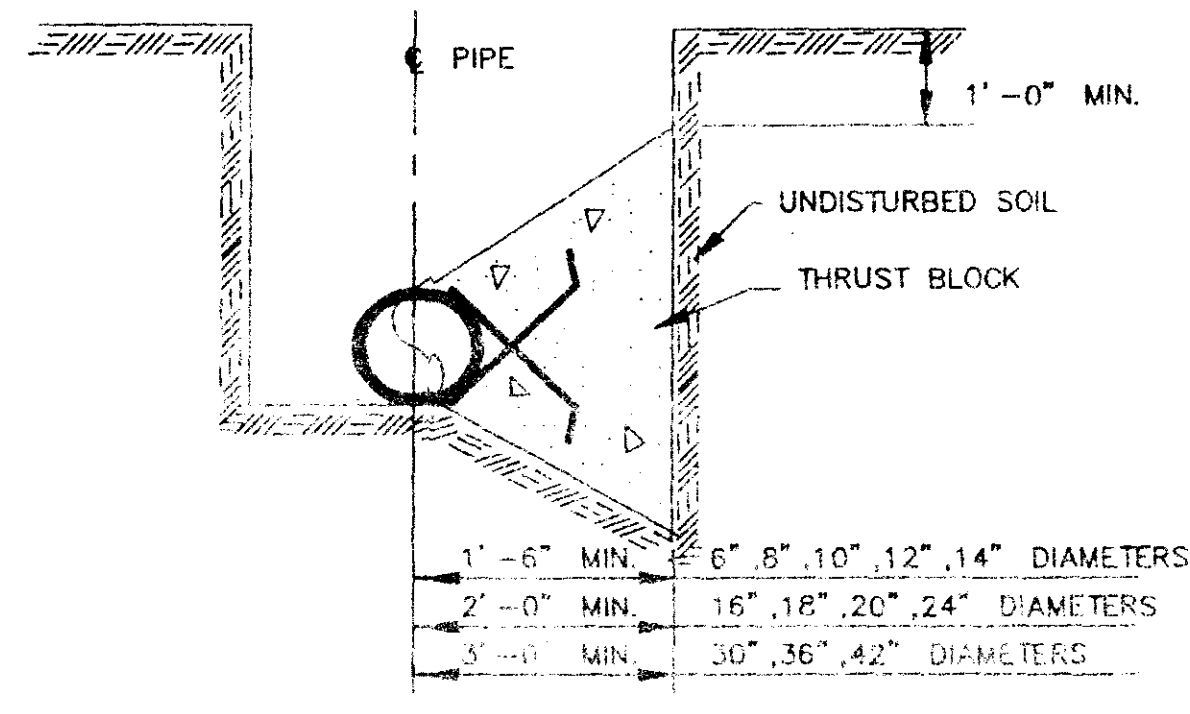
CROSS



VERTICAL BENDS



90° BEND



TYPICAL CROSS SECTION

**TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS**

N.T.S.  
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH

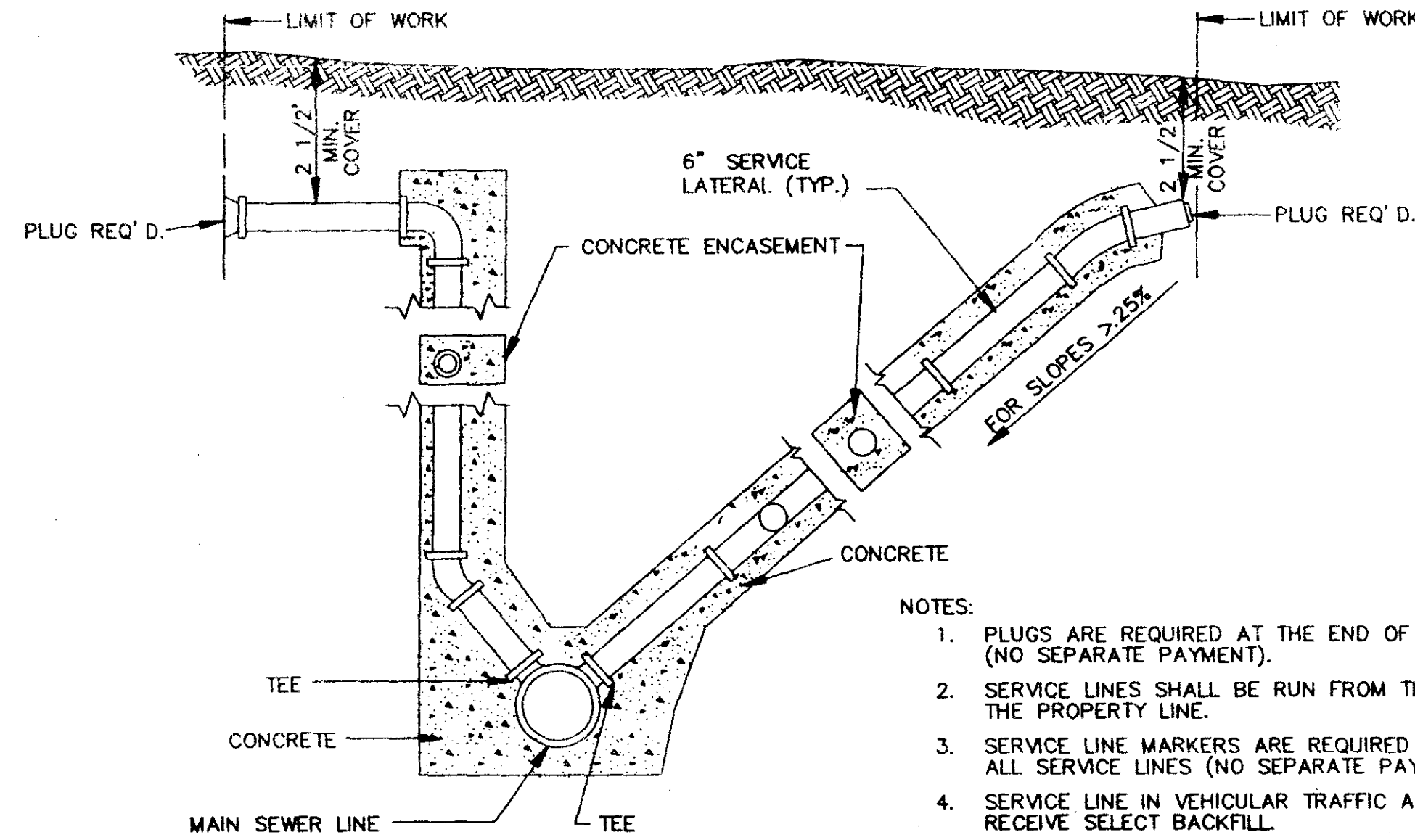
**BEARING AREA IN SQ. FT.**

NOMINAL PIPE DIAMETER (IN)	VERTICAL BENDS					NOMINAL PIPE DIAMETER (IN)	VERTICAL BENDS				
	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND		DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	2.5	3.0	2.0	2.0	2.0	6	—	—	26.0(1.0)	14.0(.5)	7.0(.3)
8	4.0	6.0	3.0	2.0	2.0	8	—	—	45.0(1.7)	25.0(.9)	13.0(.5)
10	6.0	9.0	5.0	2.5	2.0	10	—	—	68.0(2.5)	37.0(1.4)	19.0(.7)
12	9.0	11.0	6.0	3.5	2.0	12	—	—	97.0(3.6)	52.0(1.9)	27.0(1.0)
14	12.0	18.0	9.0	5.0	2.5	14	—	—	130(4.8)	70.0(2.6)	36.0(1.3)
16	16.0	22.5	12.0	6.0	3.0	16	—	—	168(6.2)	91.0(3.4)	46.0(1.7)
18	20.0	28.0	15.0	8.0	4.0	18	—	—	211(7.8)	114(4.2)	58.0(2.2)
20	24.5	34.0	19.0	10.0	5.0	20	—	—	259(9.6)	140(5.2)	72.0(2.6)
24	35.0	49.0	27.0	14.0	7.0	24	—	—	370(13.7)	200(7.4)	102(3.8)
30	54.0	76.0	41.0	21.0	10.0	30	—	—	568(21.1)	308(11.4)	156(5.8)
36	77.0	108.0	59.0	30.0	15.0	36	—	—	814(30.1)	440(16.3)	225(8.3)
42	104.0	146.0	79.0	40.0	20.0	42	—	—	1100(40.7)	595(22.0)	303(11.2)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE: ABOVE VALUES CALCULATED USING P=100 AND ALLOWANCE. SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100. FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1500/S.B.

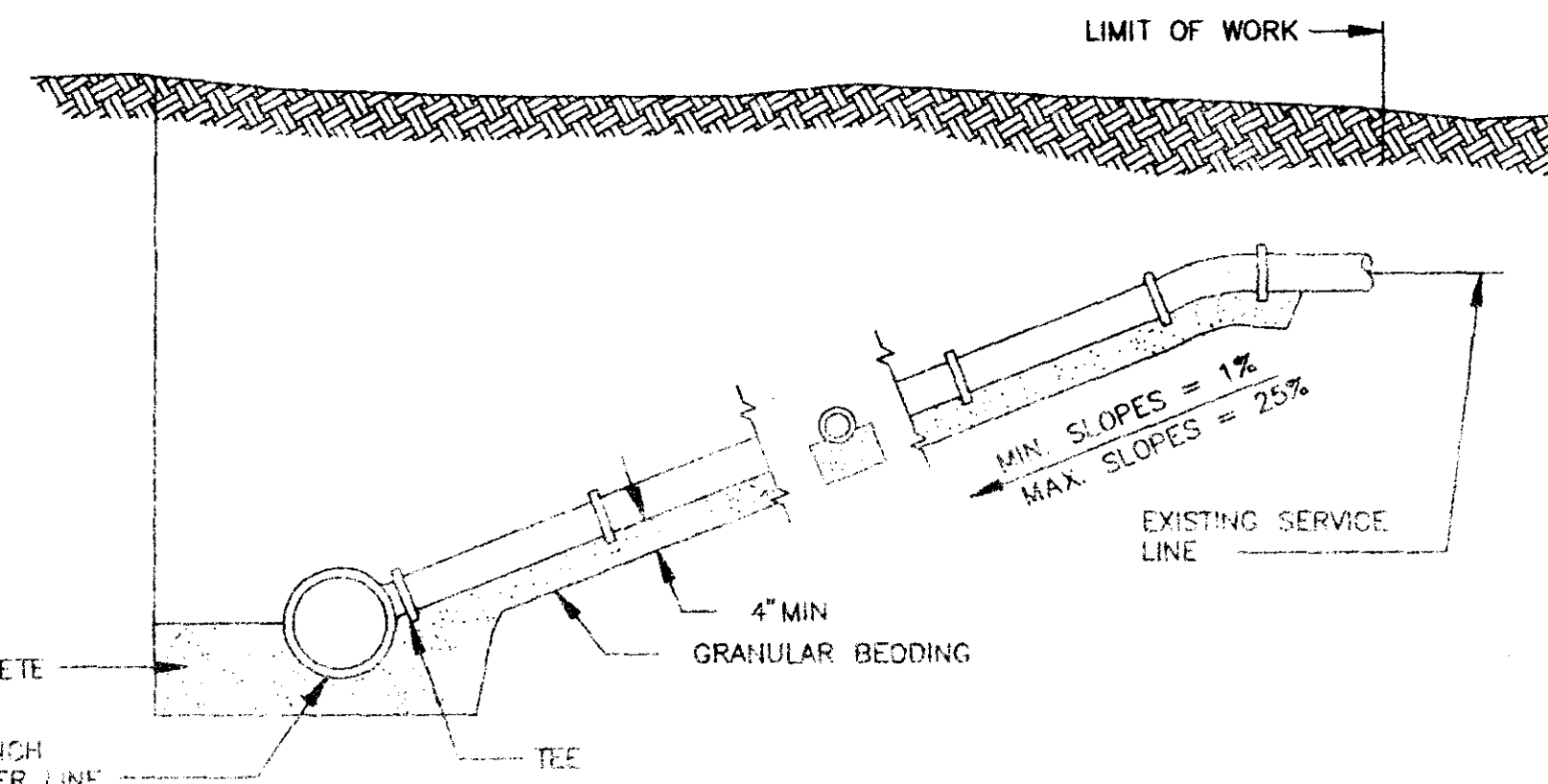
NOTE: ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



**SERVICE CONNECTION FOR DEEP SEWER**

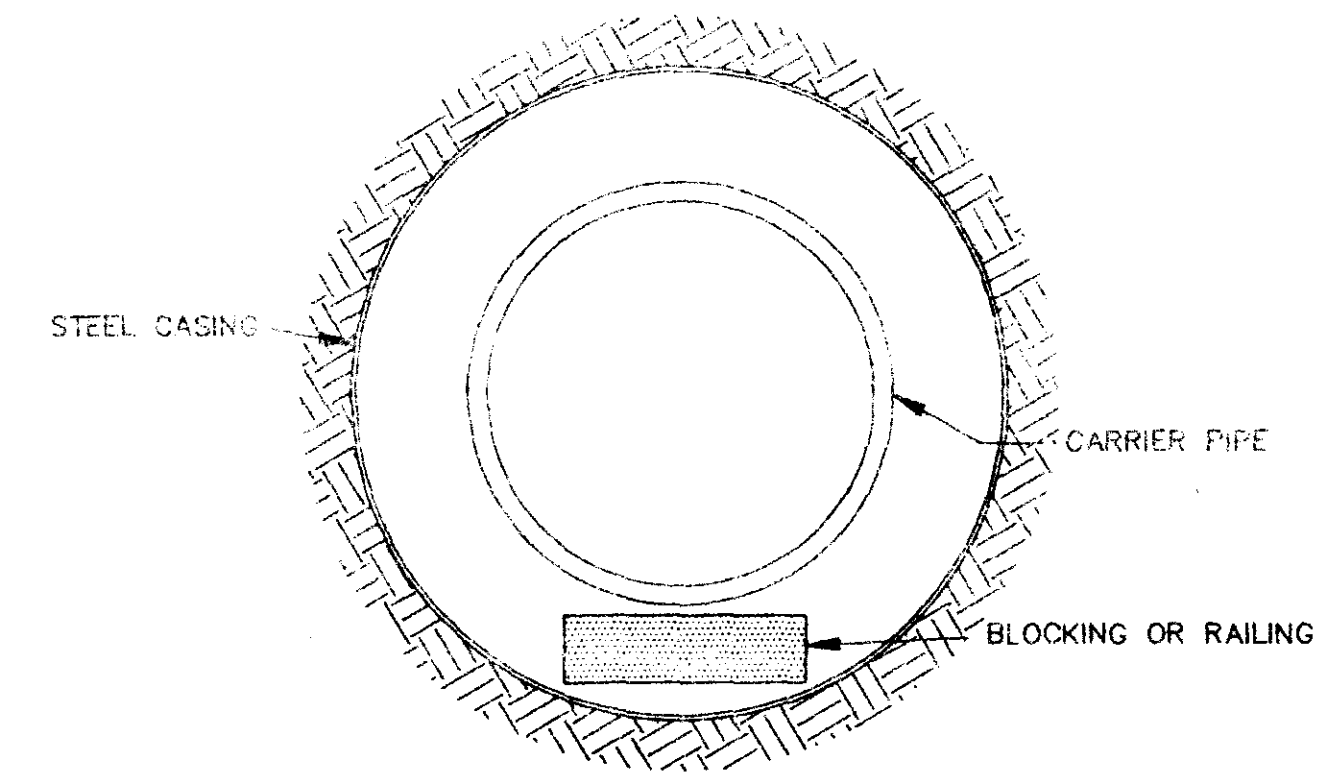
N.T.S.

- NOTES:
1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
  2. SERVICE LINES SHALL BE RUN FROM THE SEWER LINES TO THE PROPERTY LINE.
  3. SERVICE LINE MARKERS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
  4. SERVICE LINE IN VEHICULAR TRAFFIC AREA SHALL RECEIVE SELECT BACKFILL.
  5. WHEN MINIMUM COVER CAN NOT BE OBTAINED DUCTILE IRON PIPE SHALL BE REQUIRED.



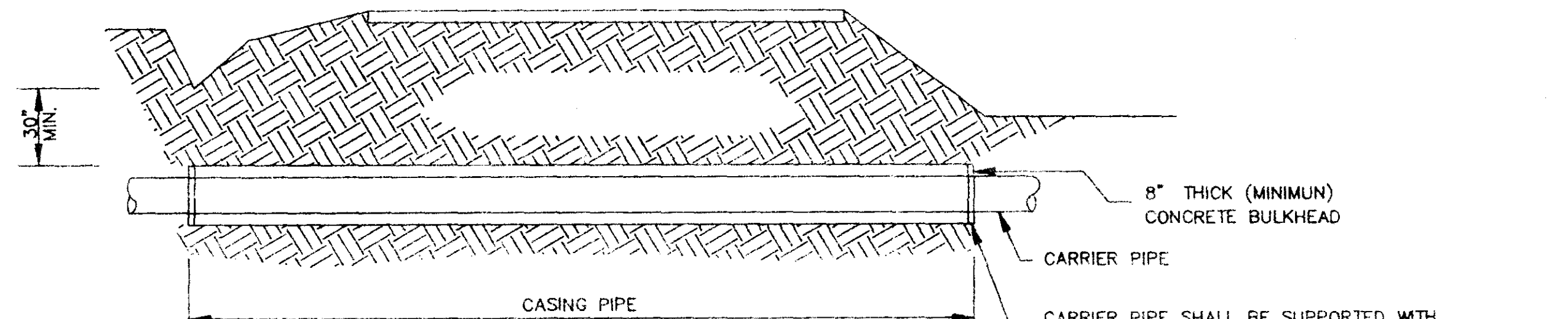
**TYPICAL SERVICE LINE CONNECTION**

N.T.S.



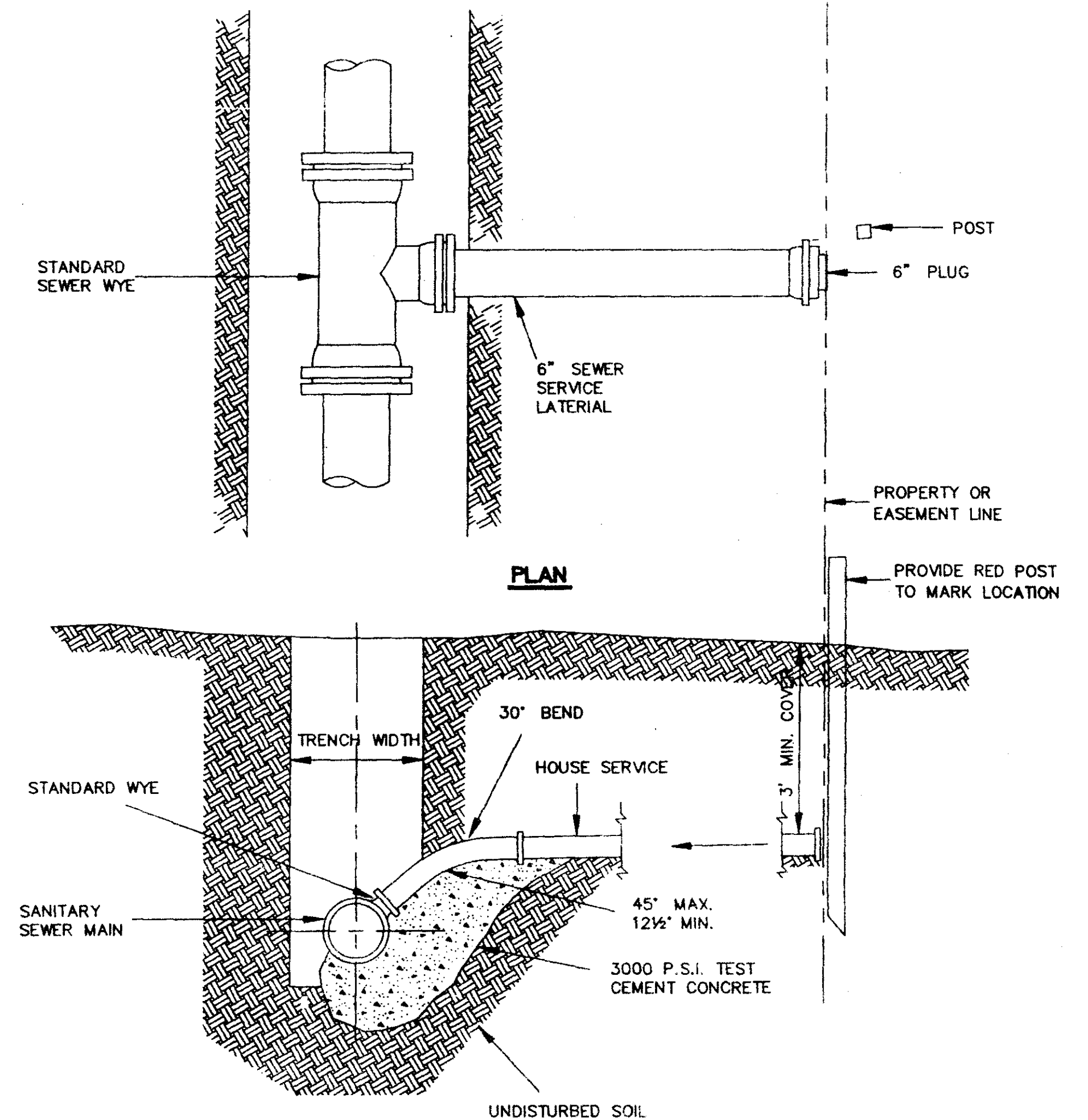
**BORE SECTION**

N.T.S.



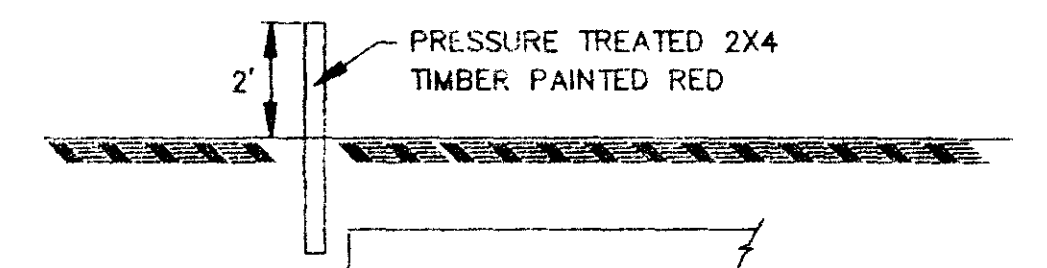
**TYPICAL BORE SECTION**

N.T.S.



**SEWER SERVICE CONNECTION**

N.T.S.



**SEWER SERVICE LINE MARKER**

(NO SEPARATE PAYMENT)

N.T.S.

**SHADOWOOD SUBDIVISION PART 3A**

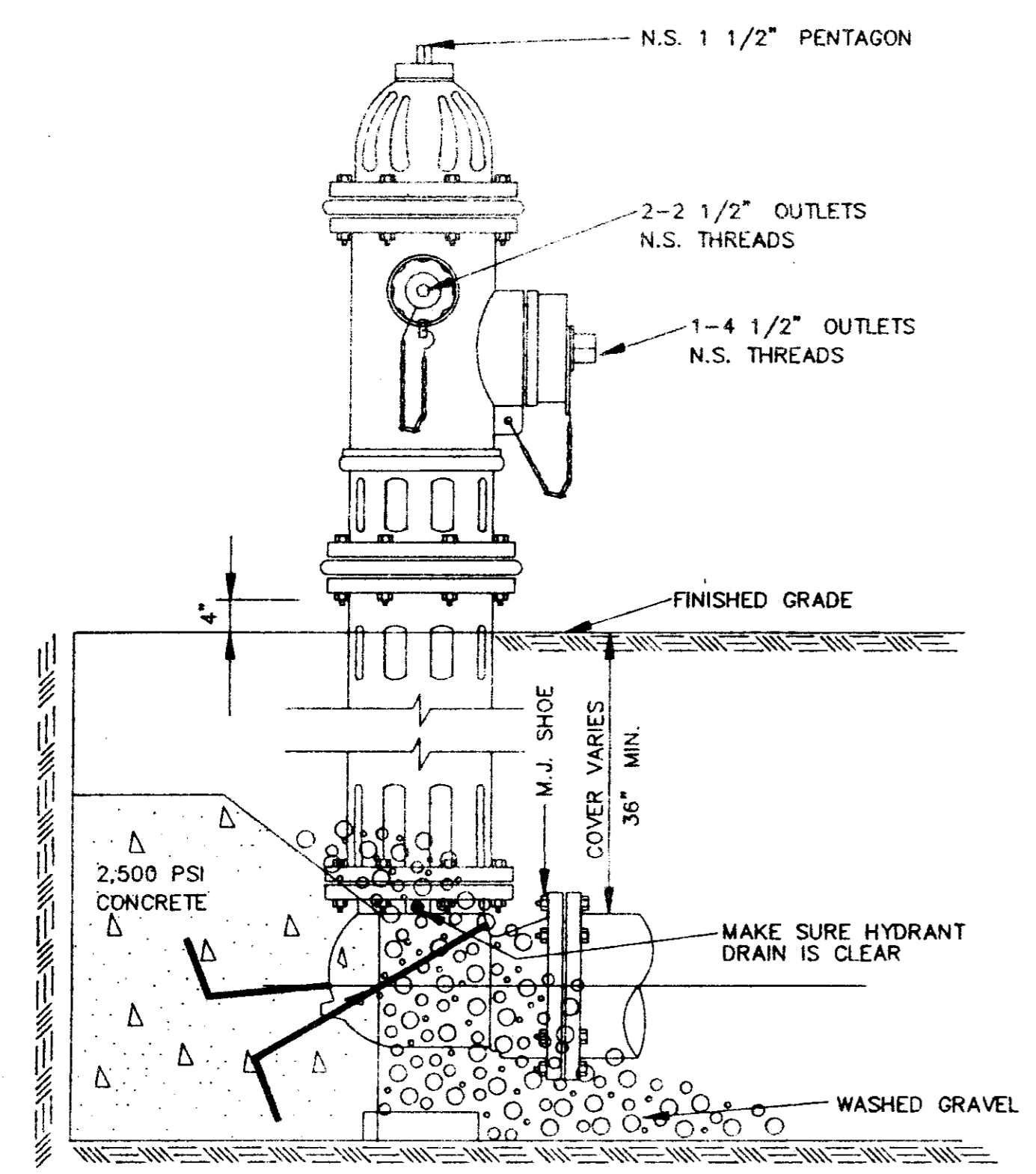
**TYPICAL SEWER DETAILS**

Prepared By: **Browning, Inc.**

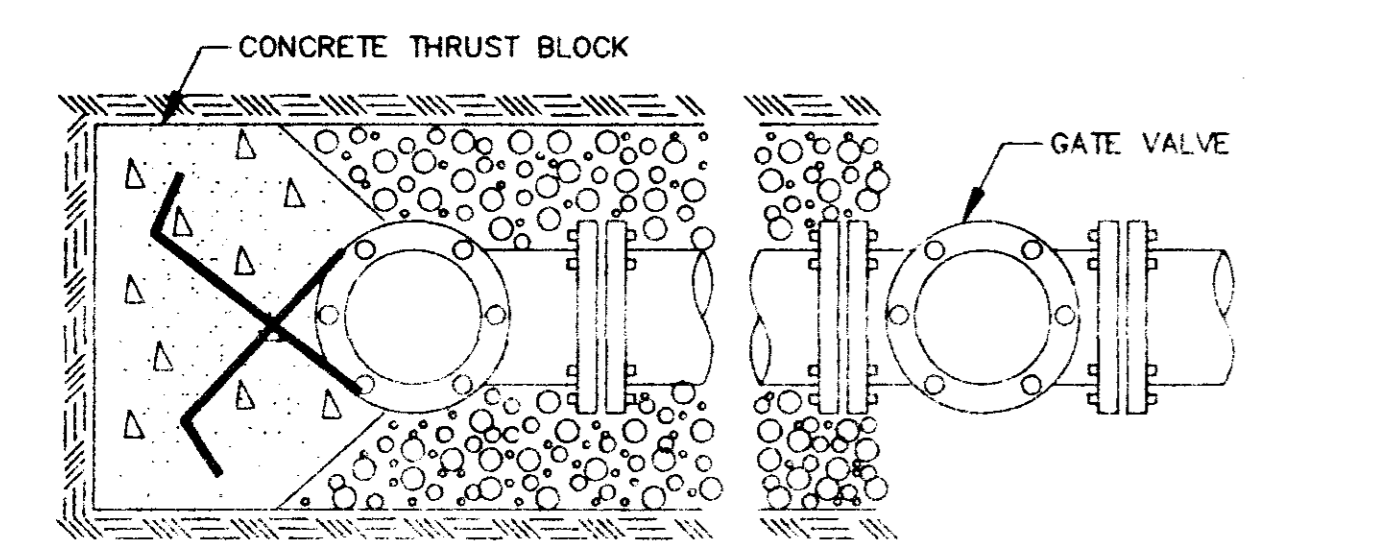
1058 Ridgewood Place Jackson, Mississippi 39211 Ph. (601)-957-1500  
 DESIGNED BY: P.L.D. SCALE: NONE SHEET No. 10  
 DRAWN BY: JSR DATE: 05/16/96 13



NOTE:  
 ALL BRICK WALLS SHALL BE PLASTERED INSIDE AND OUTSIDE WITH CEMENT MORTAR 1/2" THICK. CLASS "B" STRUCTURAL CONCRETE MAY BE USED TO CONSTRUCT INLETS IN LIEU OF BRICK MASONRY. IF CONCRETE IS USED, WALLS SHALL BE REINFORCED WITH #4 REBAR @ 16" c.c. EACH WAY.



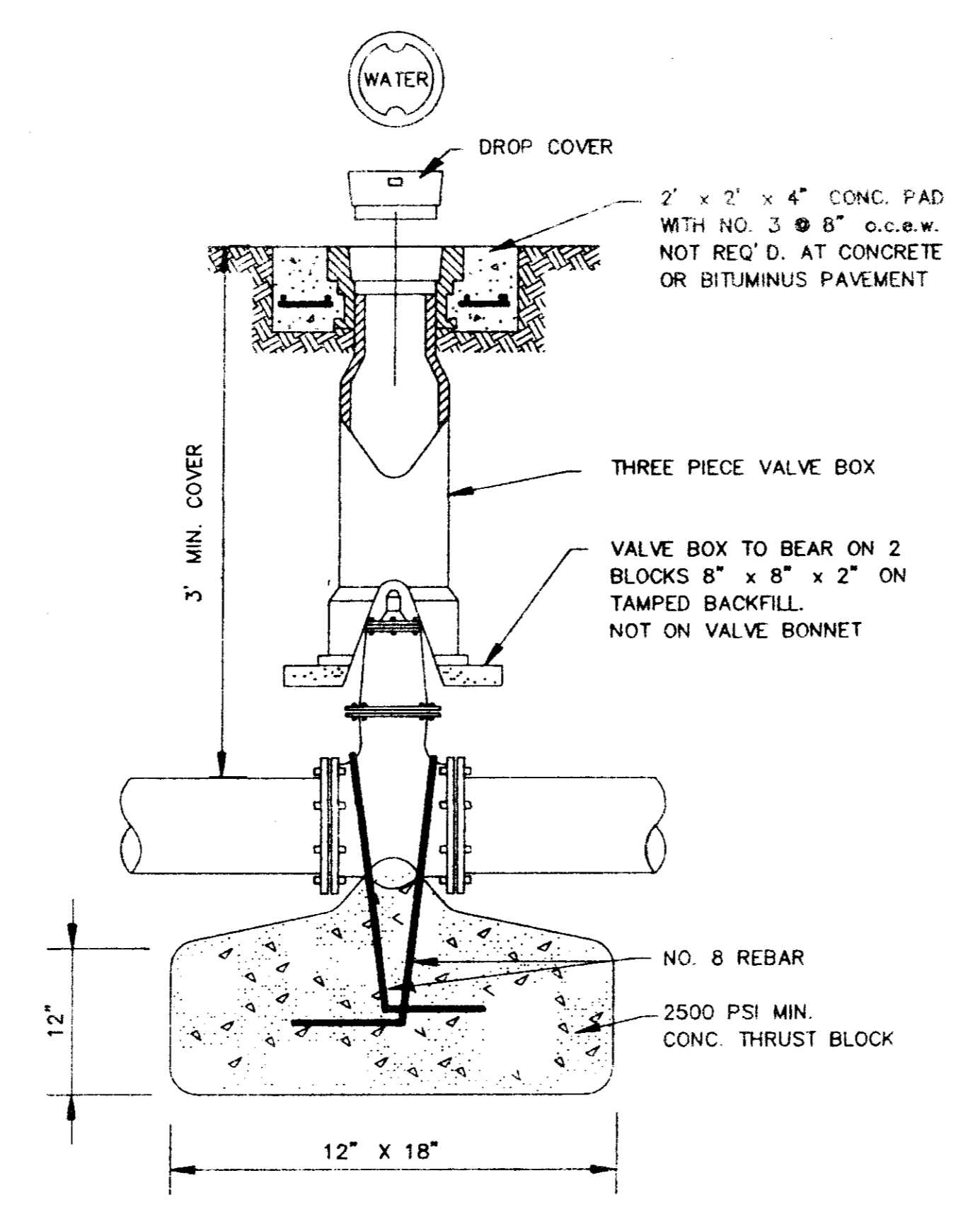
ELEVATION



PLAN

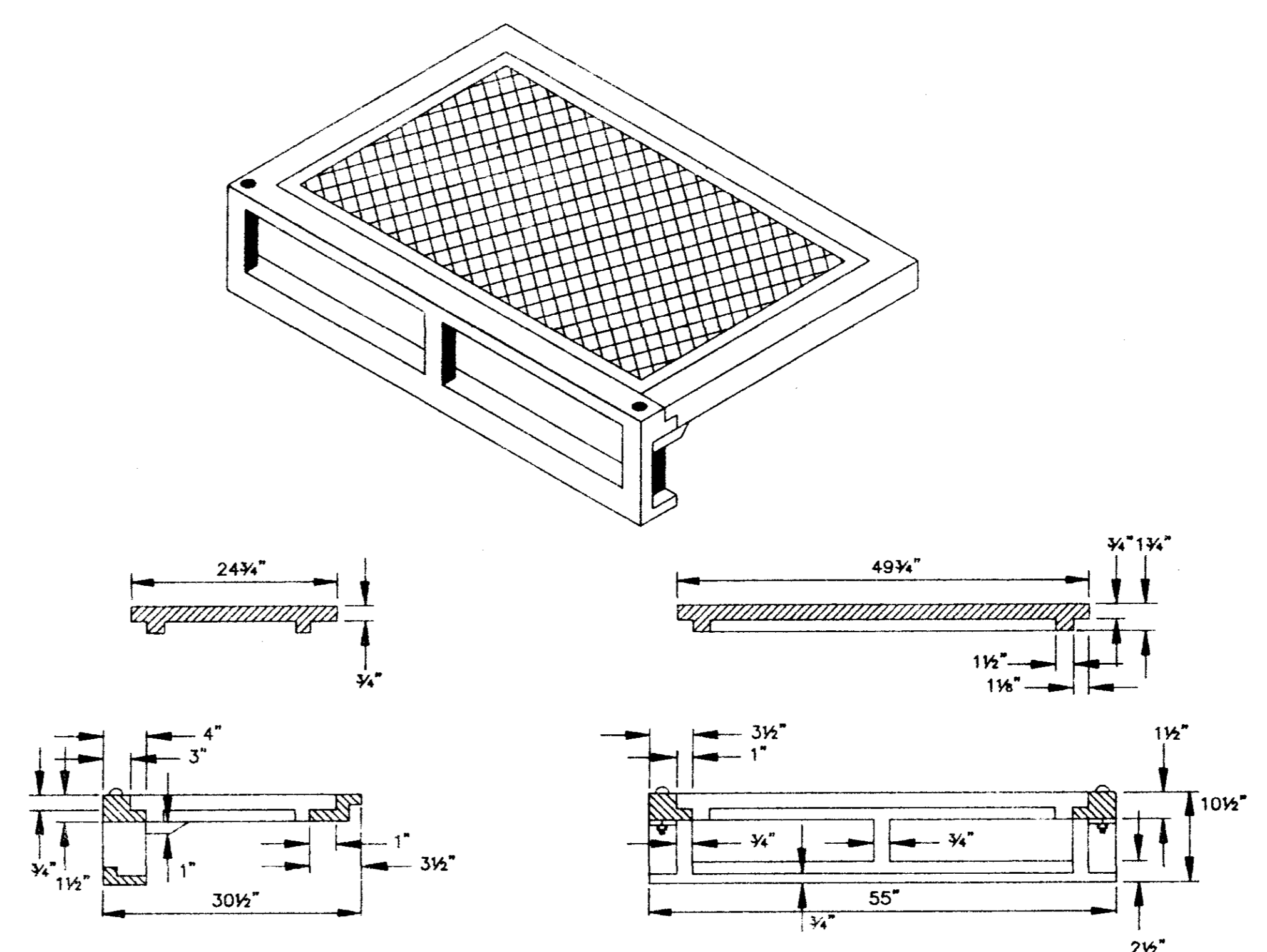
**TYPICAL FIRE HYDRANT INSTALLATION**

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.  
 N.T.S.



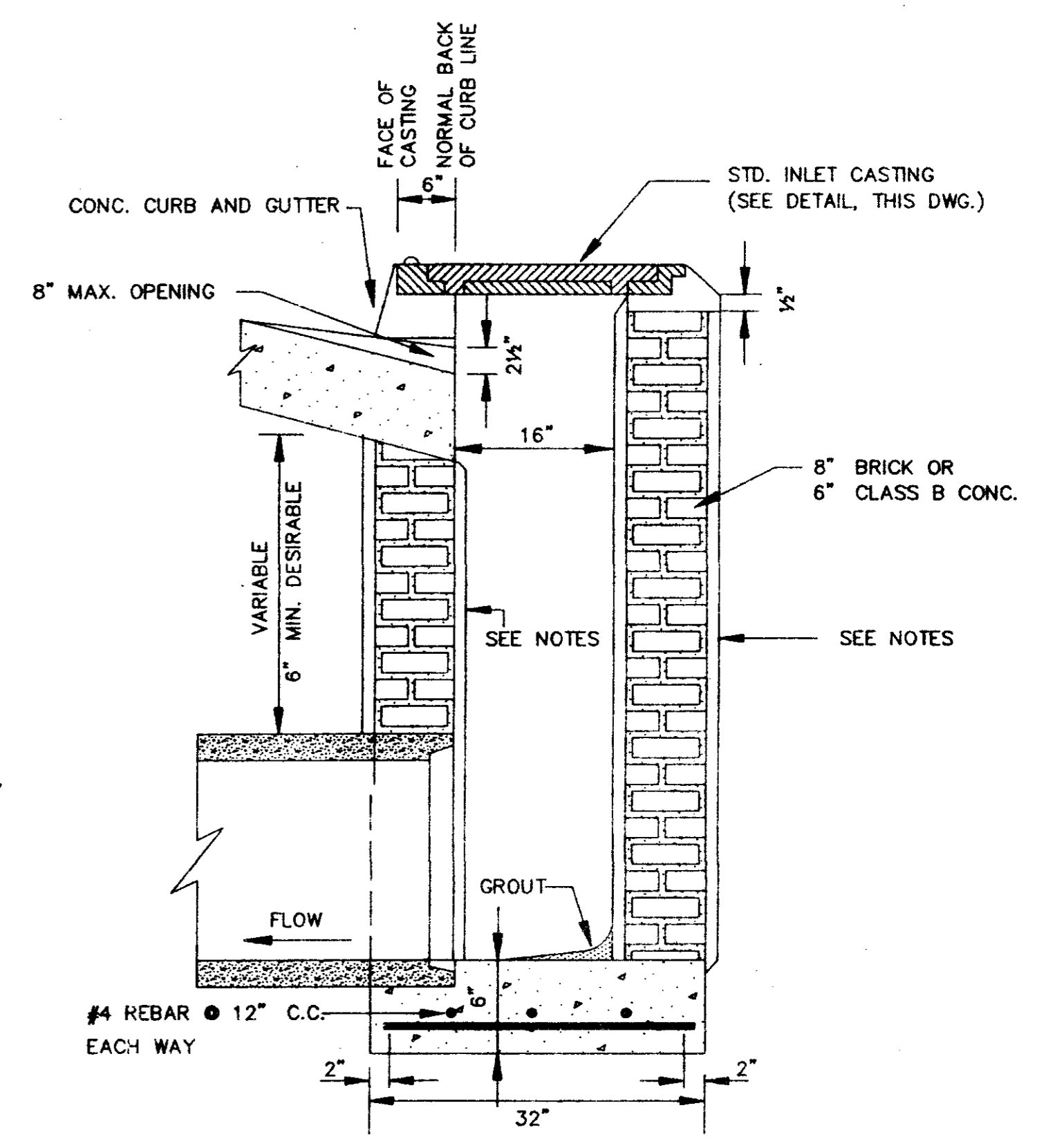
**GATE VALVE DETAIL**

N.T.S.



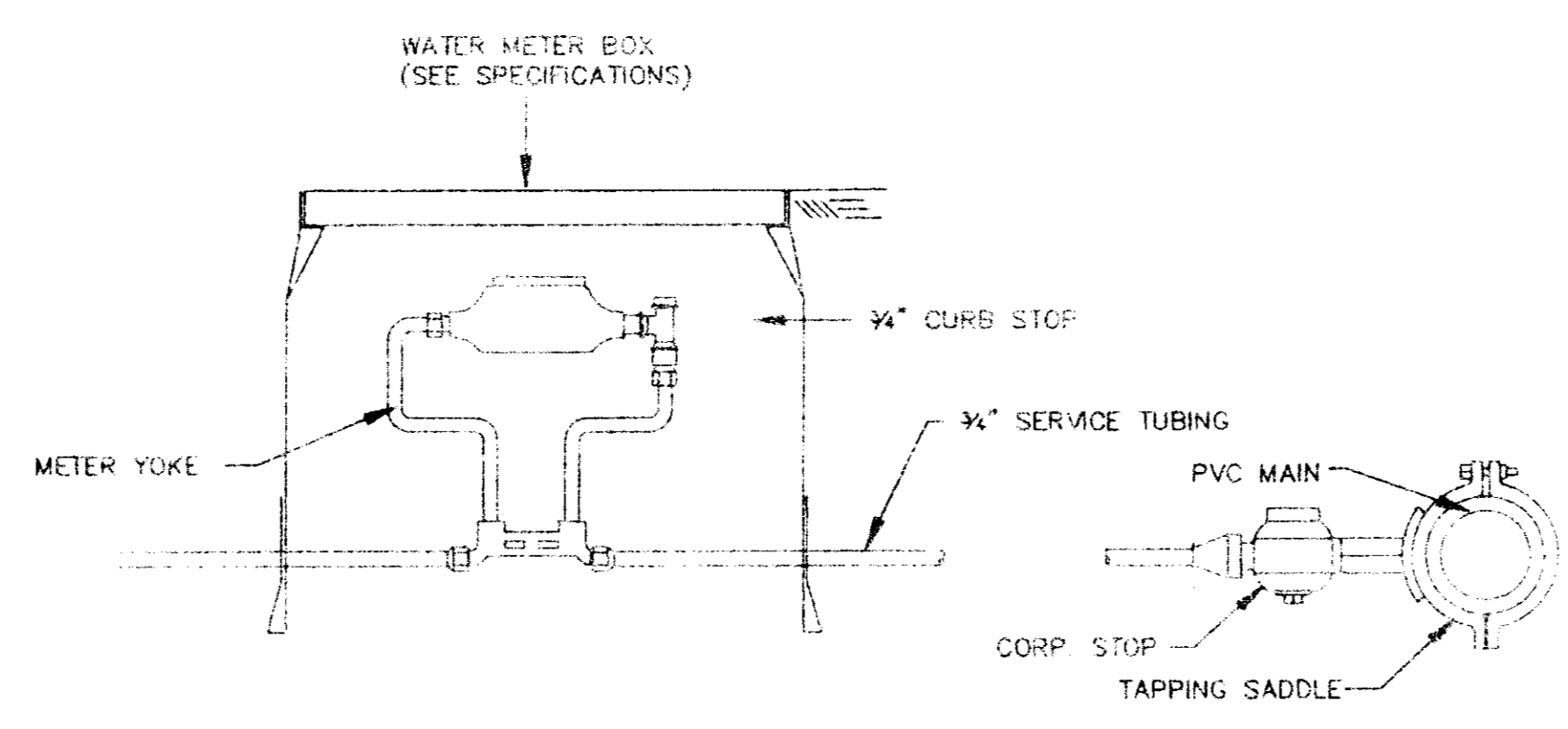
**STANDARD CURB INLET CASTING**

(VULCAN V-4302-1 OR HARPER RCB-7)  
 N.T.S.



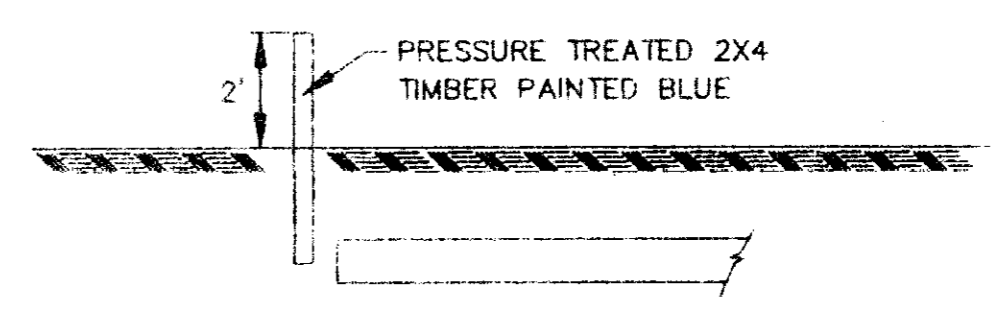
**SECTION OF STANDARD CURB INLET**

TYPE 'A' INLET



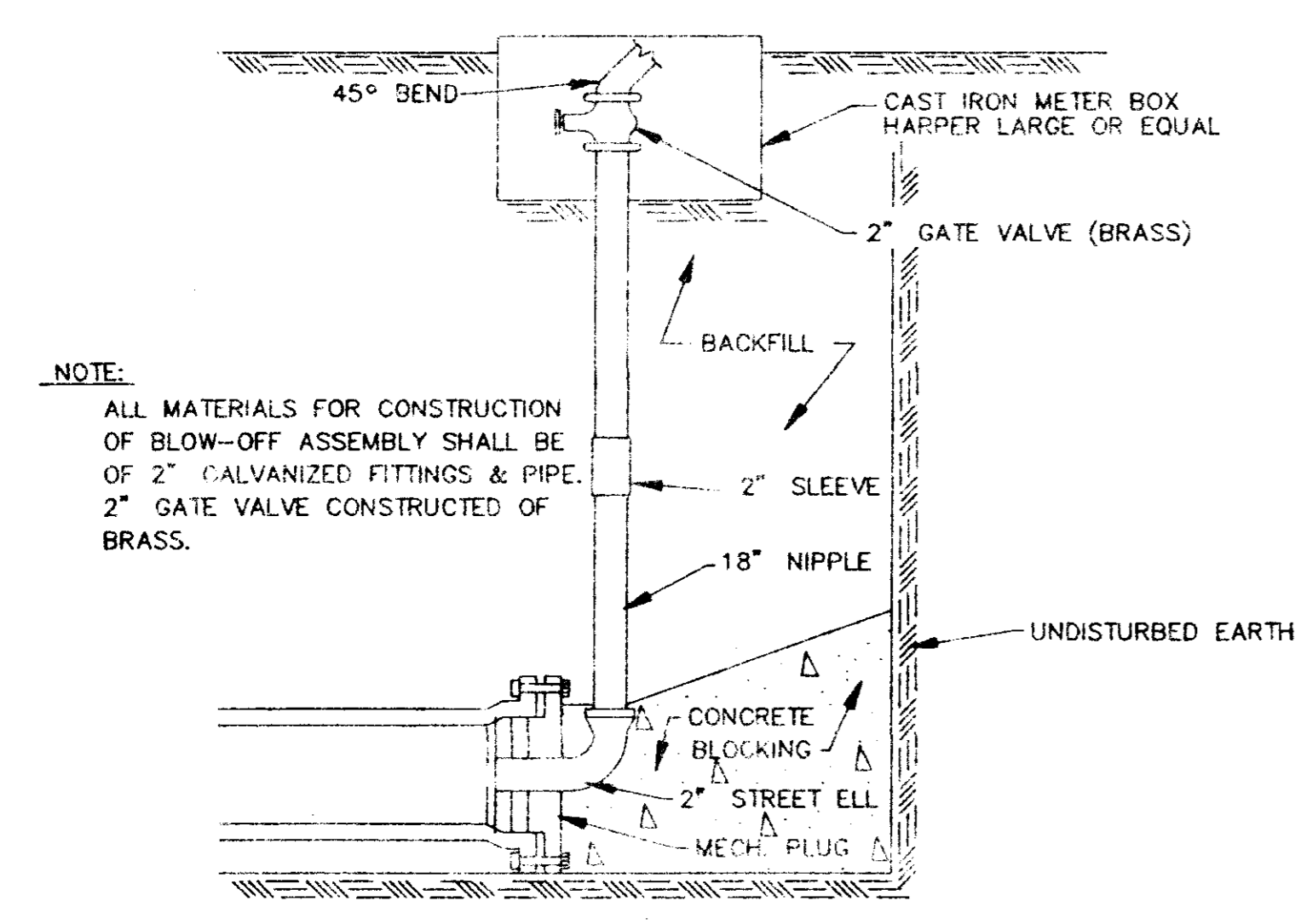
**TYPICAL 3/4" WATER SERVICE**

N.T.S.



**WATER SERVICE LINE MARKER**

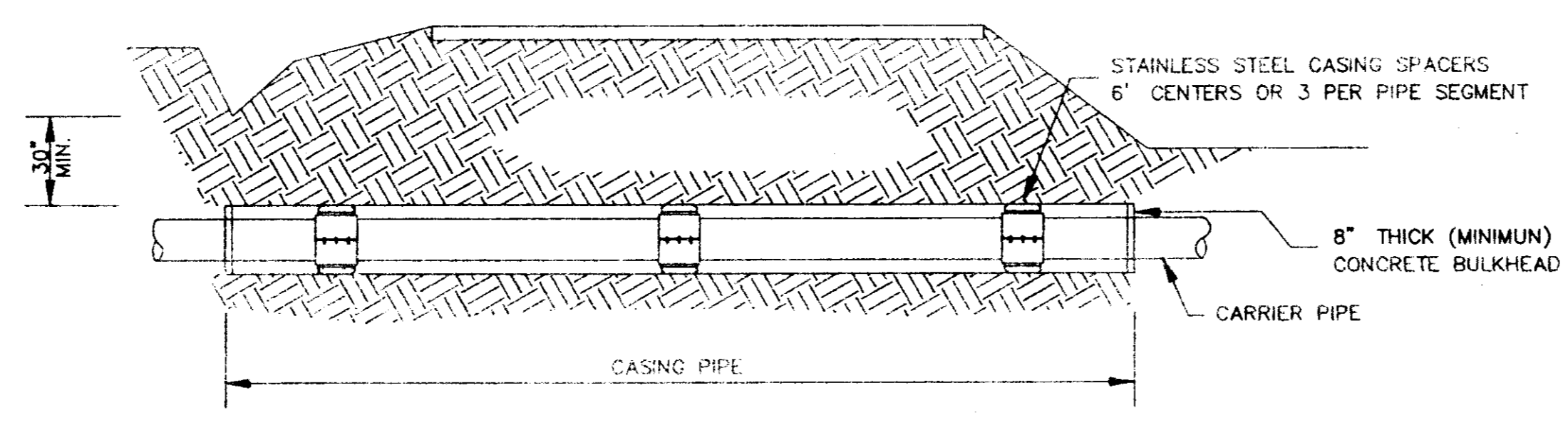
(NO SEPARATE PAYMENT)  
 N.T.S.



**TYPICAL BLOW-OFF ASSEMBLY**

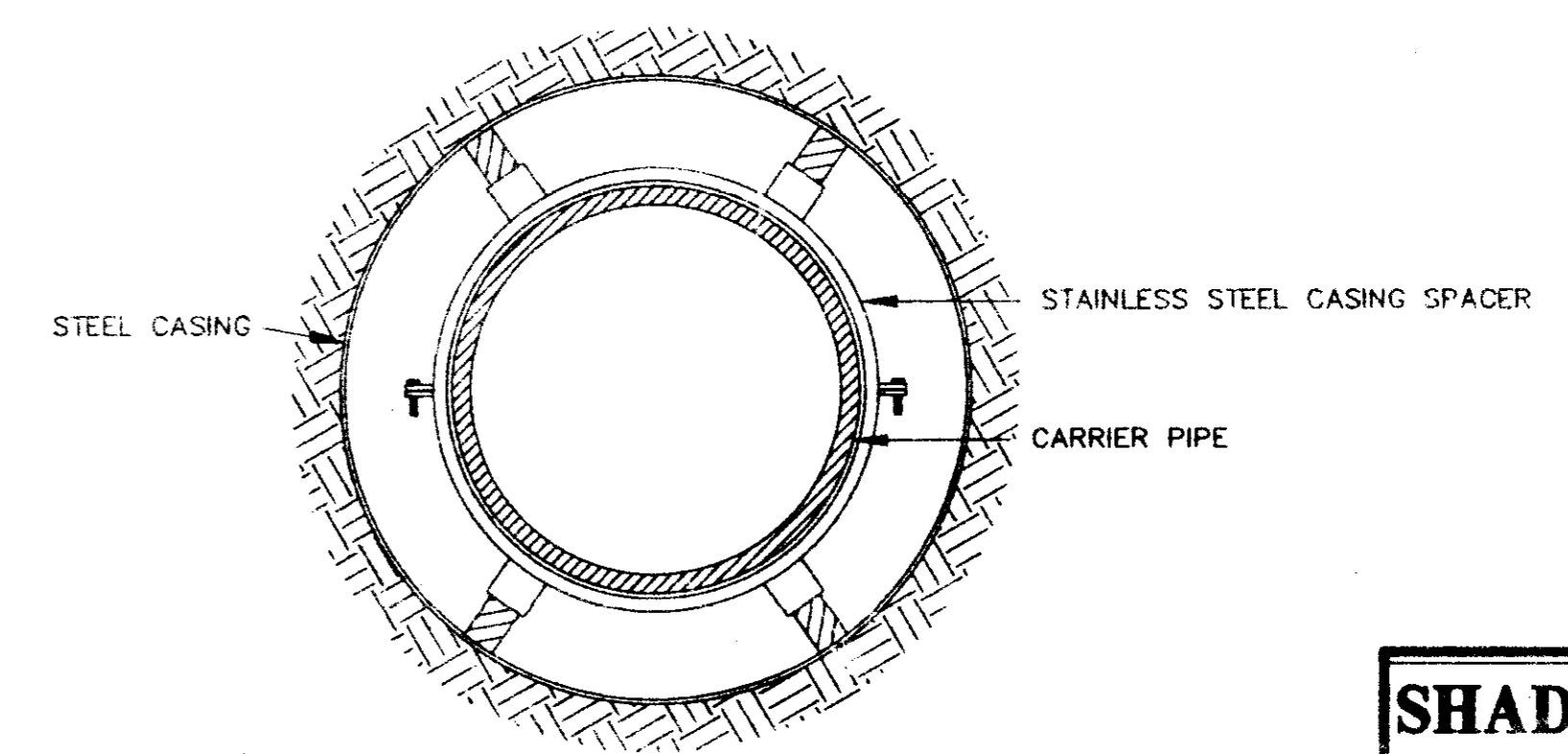
N.T.S.

NOTE:  
 ALL MATERIALS FOR CONSTRUCTION OF BLOW-OFF ASSEMBLY SHALL BE OF 2" GALVANIZED FITTINGS & PIPE. 2" GATE VALVE CONSTRUCTED OF BRASS.



**TYPICAL BORE SECTION**

N.T.S.



**BORE SECTION**

N.T.S.

**SHADOWOOD SUBDIVISION**  
**PART 3A**  
**TYPICAL WATER DETAILS**  
 Prepared by:  
**Browning, Inc.**  
 CONSULTING ENGINEERS - SURVEYORS  
 1058 Ridgewood Place Jackson, Mississippi 39211 Ph. (601)-957-3500  
 DESIGNED BY: P.L.D. SCALE: NONE SHEET No. 11 OF 13  
 DRAWN BY: JSR DATE: 05/16/94



**SCHEDULE OF BEDDING**

PERMISSIBLE DEPTH (IN FEET)  
TO BOTTOM OF PIPE FOR SATURATED CLAY EARTH LOAD  
1.30 LBS./CU.FT. (SATURATED CLAY)

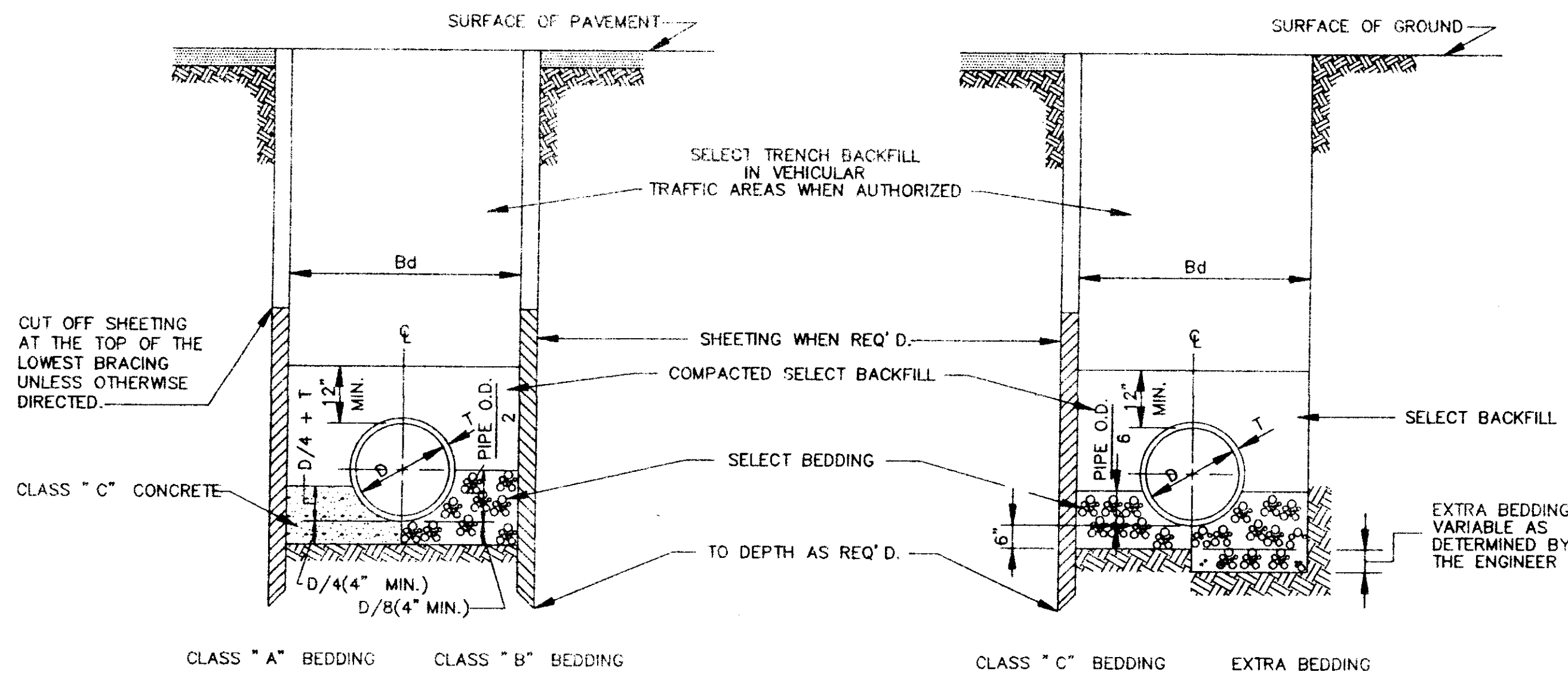
PIPE SIZE (IN.)	TRENCH WIDTH (FT.)	CONCRETE PIPE CLASS III	CONCRETE PIPE CLASS IV	CONCRETE PIPE CLASS V	EXTRA STRENGTH VIT. CLAY PIPE C-700	ABS TRUSS PIPE G-2680	ABS 0-2751
4	2.50	-	-	-	-	-	-
6	2.50	-	-	-	-	-	-
8	2.50	-	-	-	-	-	-
10	3.00	-	-	-	-	-	-
12	3.50	-	-	-	-	-	-
15	3.75	8	12	20	14	-	-
18	4.00	10	12	24	14	-	-
21	4.25	10	14	28	14	-	-
24	4.50	10	16	32	16	-	-
27	4.75	10	16	32	16	-	-
30	5.00	12	18	32	16	-	-
33	5.50	12	18	32	-	-	-
36	5.75	16	22	36	-	-	-
42	6.25	14	22	36	-	-	-
48	7.00	14	22	36	-	-	-
54	7.50	16	22	38	-	-	-
60	8.00	16	24	38	-	-	-
66	8.75	16	24	38	-	-	-
72	9.25	18	24	38	-	-	-
78	9.75	18	26	40	-	-	-
84	10.50	20	26	40	-	-	-

**CLASS "B" BEDDING**

PIPE SIZE (IN.)	TRENCH WIDTH (FT.)	CONCRETE PIPE CLASS III	CONCRETE PIPE CLASS IV	CONCRETE PIPE CLASS V	EXTRA STRENGTH VIT. CLAY PIPE C-700	ABS TRUSS PIPE G-2680	ABS 0-2751
4	2.50	-	-	-	-	-	30
6	2.50	-	-	-	-	-	30
8	2.50	-	-	-	-	-	30
10	3.00	-	-	-	-	-	30
12	3.50	-	-	-	-	-	30
15	3.75	10	14	18	18	30	-
18	4.00	12	16	22	18	30	-
21	4.25	12	20	24	22	-	-
24	4.50	12	22	24	24	-	-
27	4.75	14	24	24	24	-	-
30	5.00	14	24	24	24	-	-
33	5.50	16	24	24	-	-	-
36	5.75	16	24	24	-	-	-
42	6.25	18	26	24	-	-	-
48	7.00	18	28	24	-	-	-
54	7.50	18	28	24	-	-	-
60	8.00	20	30	24	-	-	-
66	8.75	20	30	24	-	-	-
72	9.25	22	32	24	-	-	-
78	9.75	22	32	24	-	-	-
84	10.50	22	34	50	-	-	-

**CLASS "A" BEDDING**

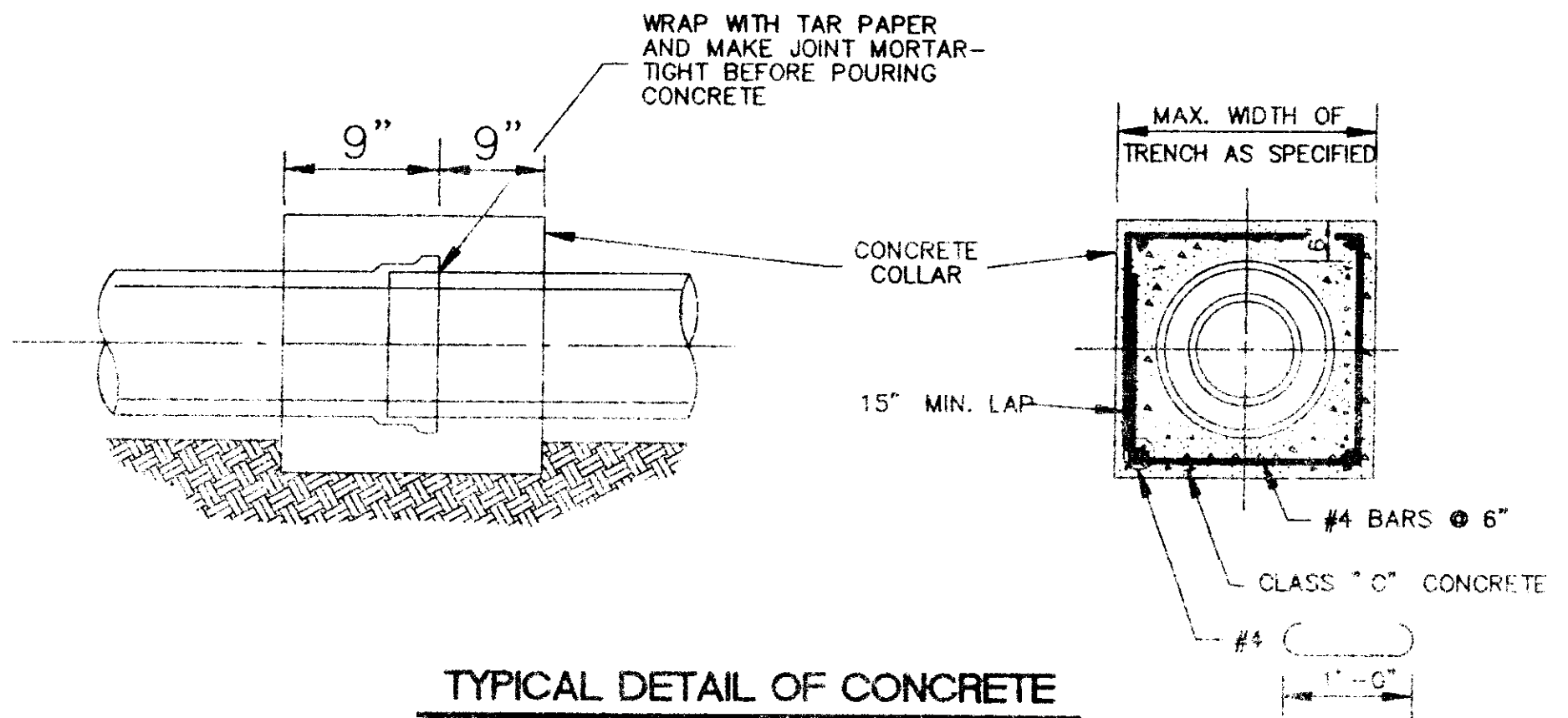
PIPE SIZE (IN.)	TRENCH WIDTH (FT.)	CONCRETE PIPE CLASS III	CONCRETE PIPE CLASS IV	CONCRETE PIPE CLASS V	EXTRA STRENGTH VIT. CLAY PIPE C-700	ABS TRUSS PIPE G-2680	ABS 0-2751
4	2.50	-	-	-	-	-	30
6	2.50	-	-	-	-	-	30
8	2.50	-	-	-	-	-	30
10	3.00	-	-	-	-	-	30
12	3.50	-	-	-	-	-	30
15	3.75	14	18	18	18	30	-
18	4.00	14	20	22	18	30	-
21	4.25	20	22	24	22	-	-
24	4.50	20	24	24	24	-	-
27	4.75	21	24	24	24	-	-
30	5.00	26	26	26	26	-	-
33	5.50	26	26	26	26	-	-
36	5.75	26	26	26	26	-	-
42	6.25	26	26	26	26	-	-
48	7.00	26	26	26	26	-	-
54	7.50	30	30	30	30	-	-
60	8.00	30	30	30	30	-	-
66	8.75	30	30	30	30	-	-
72	9.25	32	32	32	32	-	-
78	9.75	32	32	32	32	-	-
84	10.50	34	50	50	-	-	-



BEDDING FOR VITRIFIED CLAY, CONCRETE & ABS PIPE

**TYPICAL TRENCH DETAILS**

N.T.S.



**TYPICAL DETAIL OF CONCRETE COLLAR**

N.T.S.

**TABLE "A"**

PIPE SIZE

CARRIER PIPE (INCHES)	CASING PIPE	
	DIA. (INCHES)	STEEL PIPE WALL THICK
8	16	1/4"
10	20	5/16"
12	24	3/8"
14 & 16	30	1/2"
18	36	1/2"
24	36	1/2"
30	54	1/2"
36	54	1/2"
42	66	SEE TABLE "B"
48	72	-
54	78	-
60	84	-
66	96	-
72	108	-
84	120	-
96	144	-

**TABLE "B"**

GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES

NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET)										
	2-5	6-10	10-12	12-14	14-16	16-18	18-20	20-24	24-30	30-40	40-45
48	12	12	12	12	12	12	12	12	10	10	10
54	12	12	12	12	12	12	12	10	8	8	8
60	12	12	12	12	12	12	12	8	7	7	7
66	12	12	12	12	12	10	8	8	5	5	5
72	12	12	12	12	12	10	8	7	5	5	5
78	12	12	12	12	10	8	7	5	5	5	5
84	12	12	12	10	10	8	5	5	5	5	5
96	12	10	10	10	10	8	5	5	5	5	5
108	10	10	10	10	8	7	5	5	5	5	5
120	10	10	10	8	8	7	5	5	5	5	5
144	8	8	8	8	5	5	3	1	1	1	1

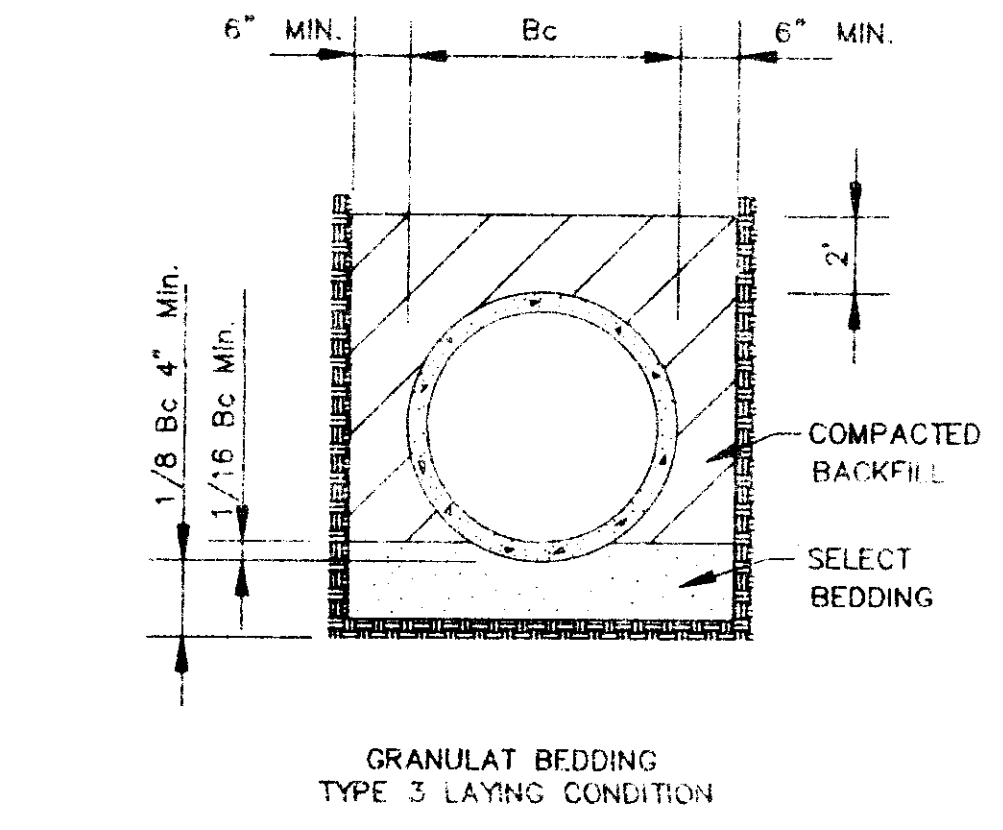
MIN. THICKNESS FOR LINER PLATE CASING IN RAILROAD CROSSING-10 GAGE

**CASING PIPE**

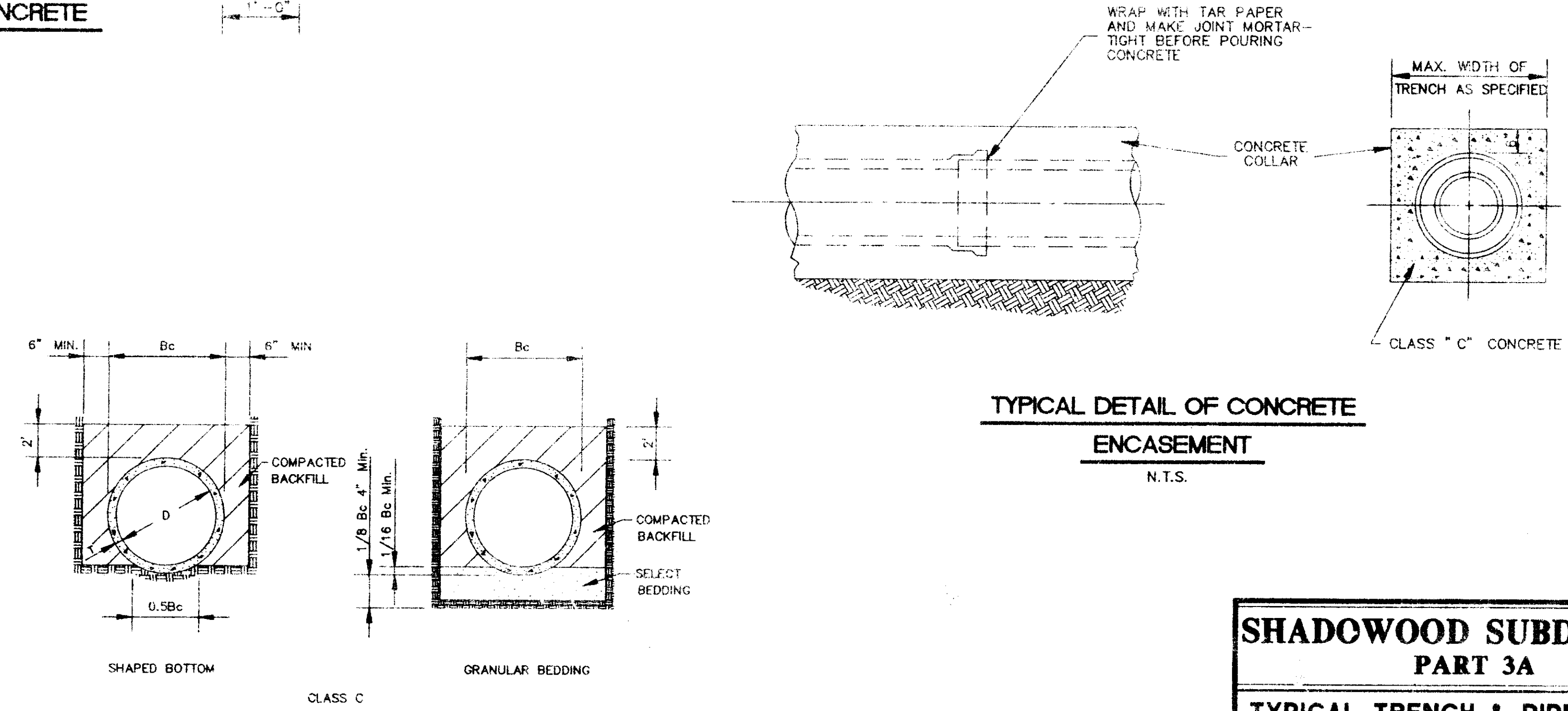
SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING

**SCHEDULE OF BEDDING AND BACKFILL QUANTITIES**

PIPE SIZE (IN.)	TRENCH WIDTH (FT.)	TRENCH VOLUME PER FOOT OF DEPTH (CY/FT)	BEDDING QUANTITIES (CY/FT)			BACKFILL QUANTITIES (TO ONE FOOT ABOVE TOP OF PIPE) (CY/FT)		
			CLASS C	CLASS B	CLASS A	CLASS C	CLASS B	CLASS A
4	2.50	0.074	0.054	0.053	0.048	0.13	0.12	0.12
6	2.50	0.074	0.056	0.057	0.051	0.13	0.12	0.13
8	2.50	0.093	0.056	0.062	0.054	0.14	0.12	0.14
10	3.00	0.111	0.072	0.081	0.069	0.18	0.16	0.18
12	3.50	0.130	0.085	0.10	0.087	0.22	0.19	0.22
15	3.75	0.139	0.098	0.12	0.10	0.25	0.21	0.25
18	4.00	0.148	0.11	0.14	0.12	0.28	0.24	0.27
21	4.25	0.157	0.11	0.17	0.16	0.31	0.26	0.30
24	4.50	0.167	0.13	0.17	0.17	0.34	0.28	0.33
27	4.75	0.176	0.14	0.19	0.20	0.37	0.31	0.36
30	5.00	0.185	0.16	0.21	0.23	0.40	0.33	0.39
33	5.50	0.204	0.18	0.25	0.28	0.46	0.38	0.45
36	5.75	0.213	0.19	0.28	0.31	0.49	0.41	0.48
42	6.25	0.231	0.22	0.33	0.39	0.55	0.46	0.54
48	7.00	0.259	0.26	0.42	0.49	0.66	0.55	0.64
54	7.50	0.278	0.29	0.48	0.58	0.72	0.60	0.71
60	8.00	0.296	0.33	0.55	0.68	0.78	0.66	0.77
66	8.75	0.324	0.37	0.63	0.82	0.90	0.76	0.85
72	9.25	0.343	0.41	0.74	0.90	0.96	0.82	0.96
78	9.75	0.361	0.45	0.82	1.05	1.03	0.89	1.03
84	10.50	0.389	0.50	0.95	1.22	1.10	1.00	1.16



**TYPICAL TRENCH DETAILS (FORCE MAIN)**



**TYPICAL DETAIL OF CONCRETE ENCASUREMENT**

N.T.S.

**SHADOWOOD SUBDIVISION PART 3A**

**TYPICAL TRENCH & PIPE DETAILS**

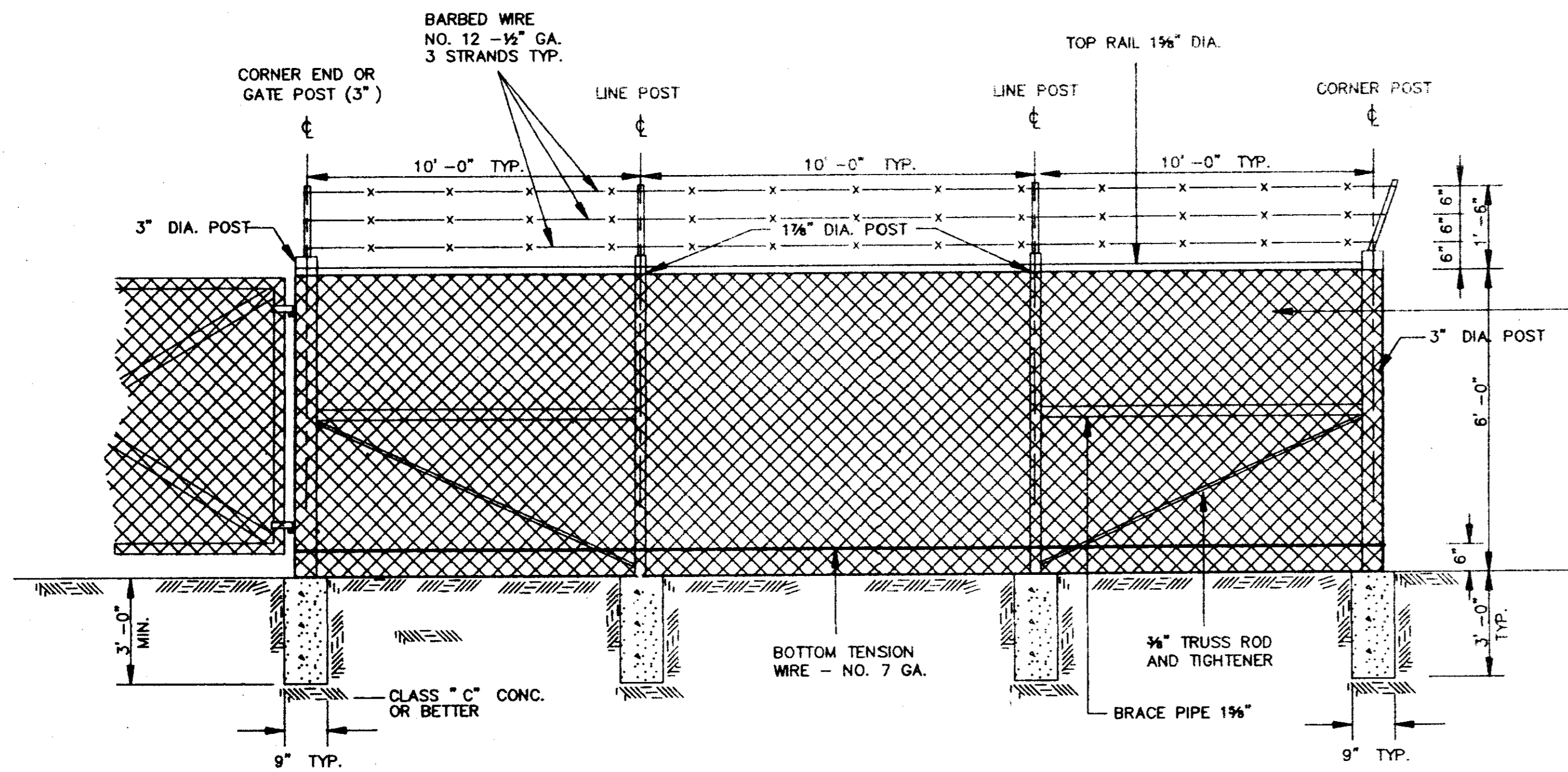
Prepared By: **Browning, Inc.**  
CONSULTING ENGINEERS - SURVEYORS

1058 Ridgewood Place Jackson, Mississippi 39211 PH. (601)-927-3500

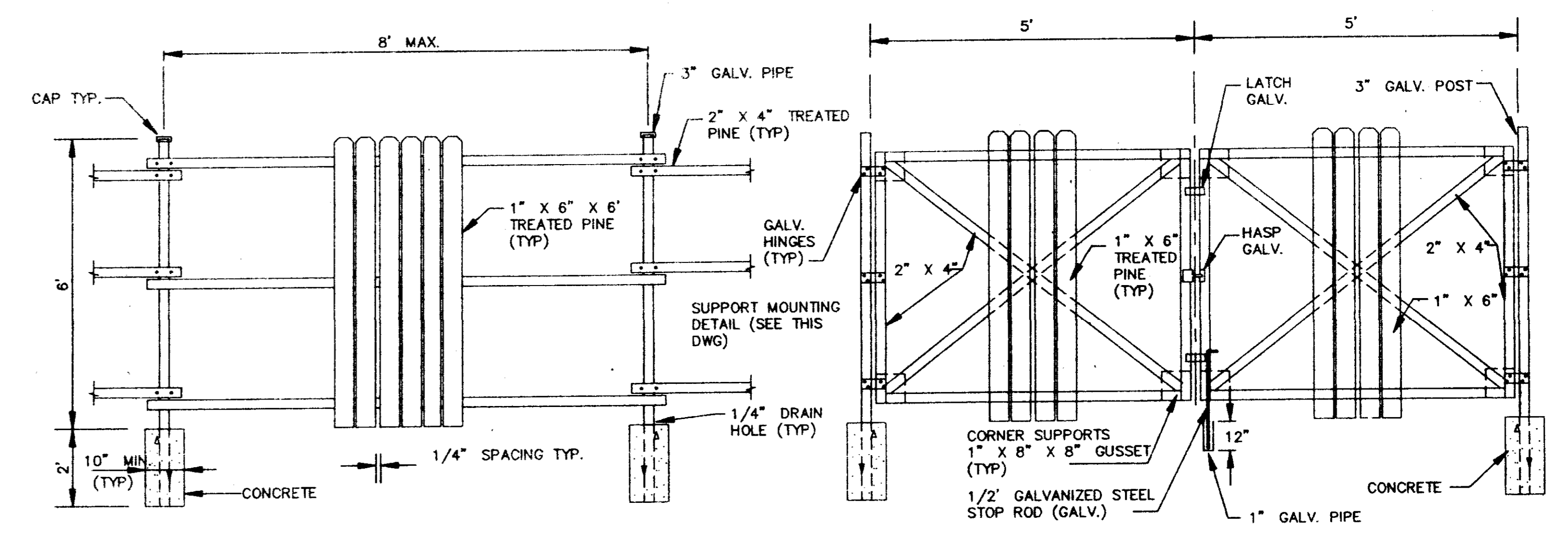
DESIGNED BY: P.L.D. SCALE: NONE SHEET No. 13

DRAWN BY: JSR DATE: 7/16/78



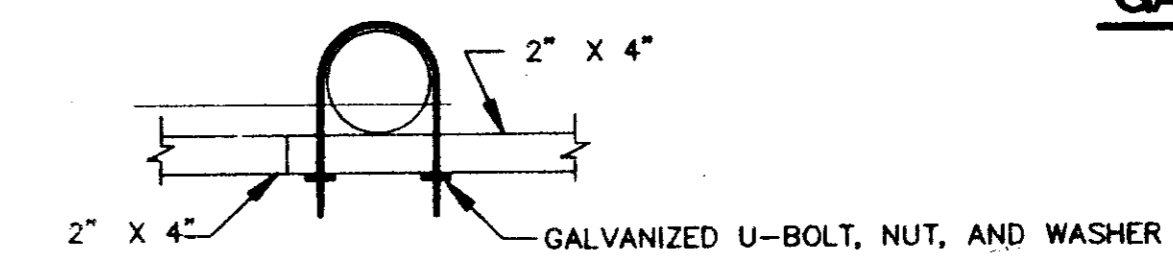


**CHAIN LINK FENCE DETAIL**  
N.T.S.

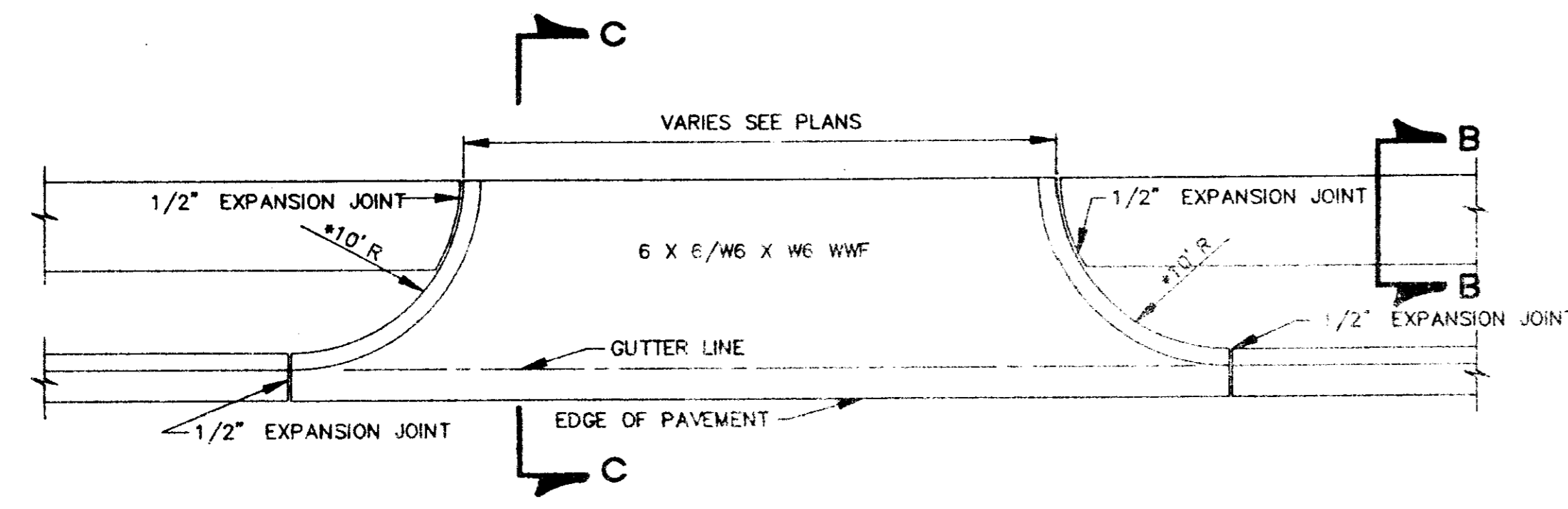


**FENCE DETAIL**  
N.T.S.

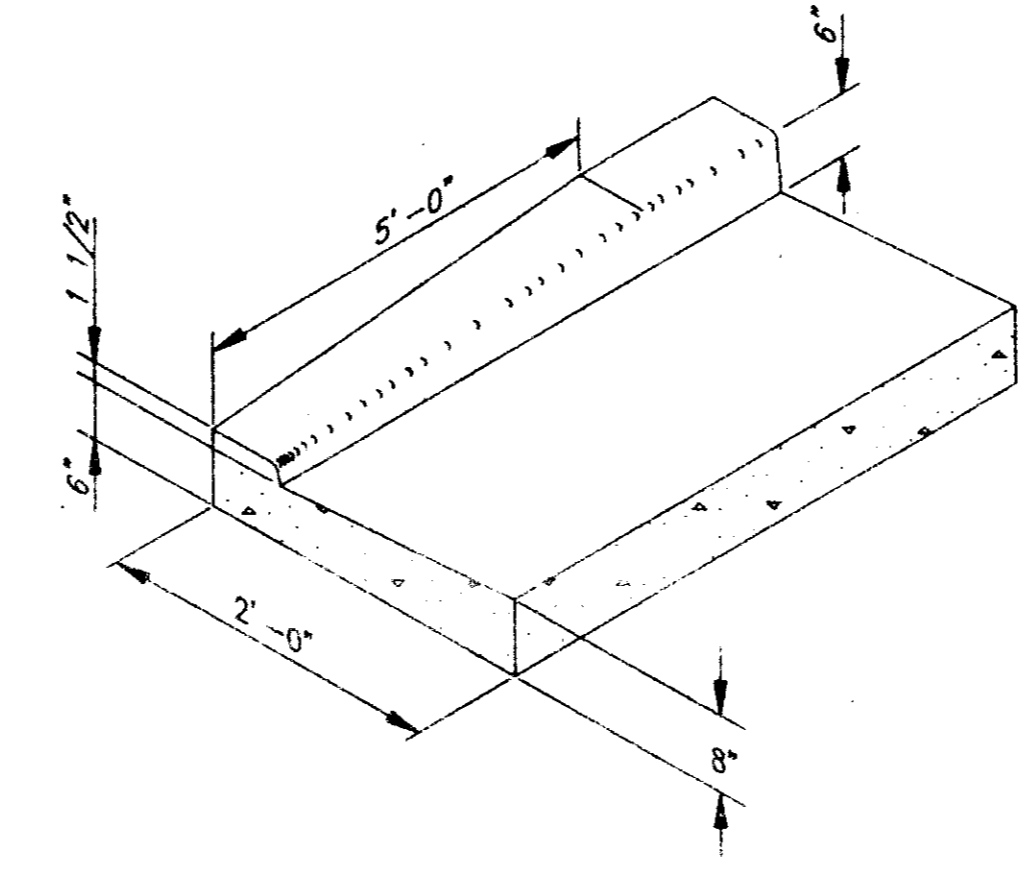
**GATE DETAIL**  
N.T.S.



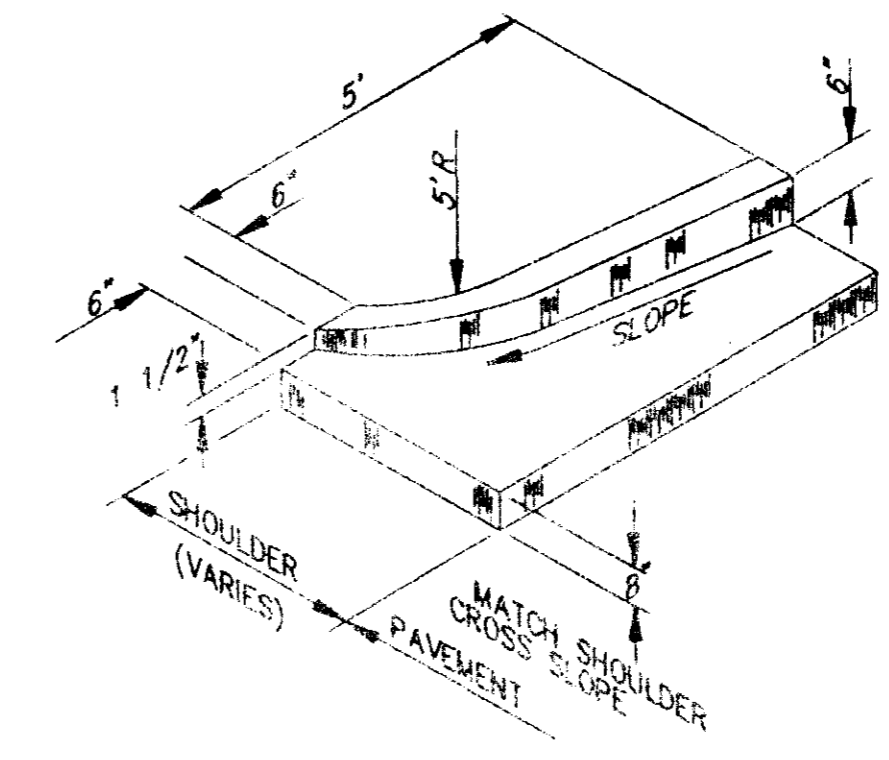
**SUPPORT MOUNTING DETAIL**  
N.T.S.



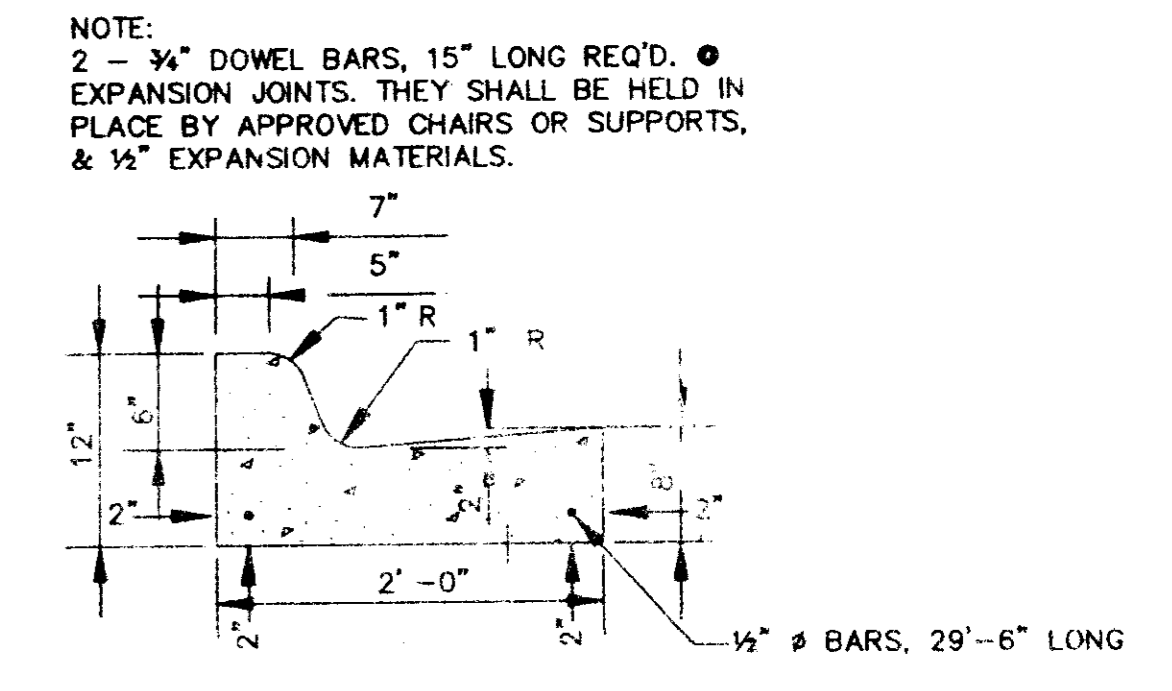
**PLAN OF CONCRETE DRIVEWAY**  
N.T.S.



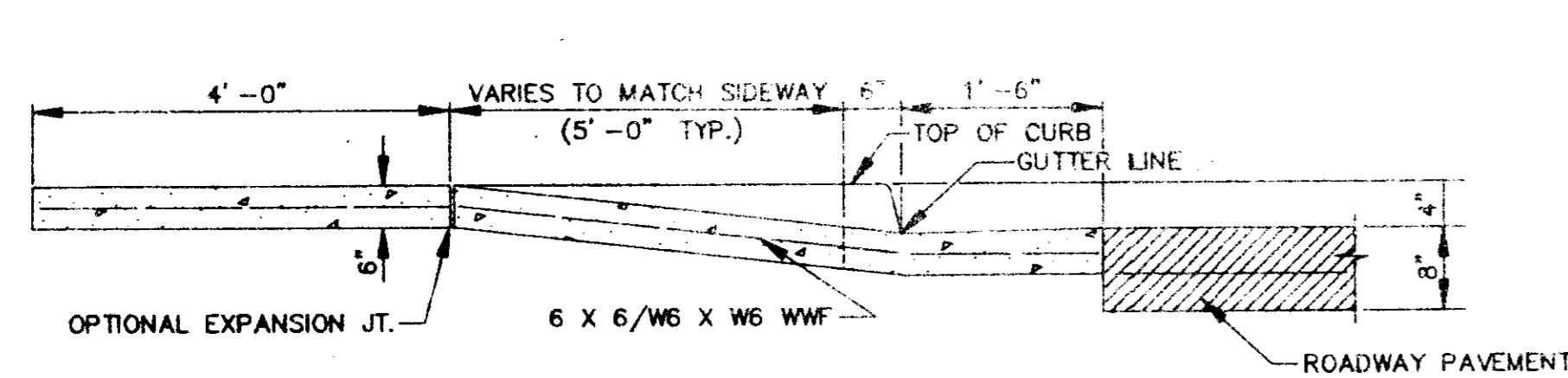
**CURB END TRANSITION IN TANGENT SECTION**  
(TO BE PAID FOR AS COMBINATION CURB & GUTTER)



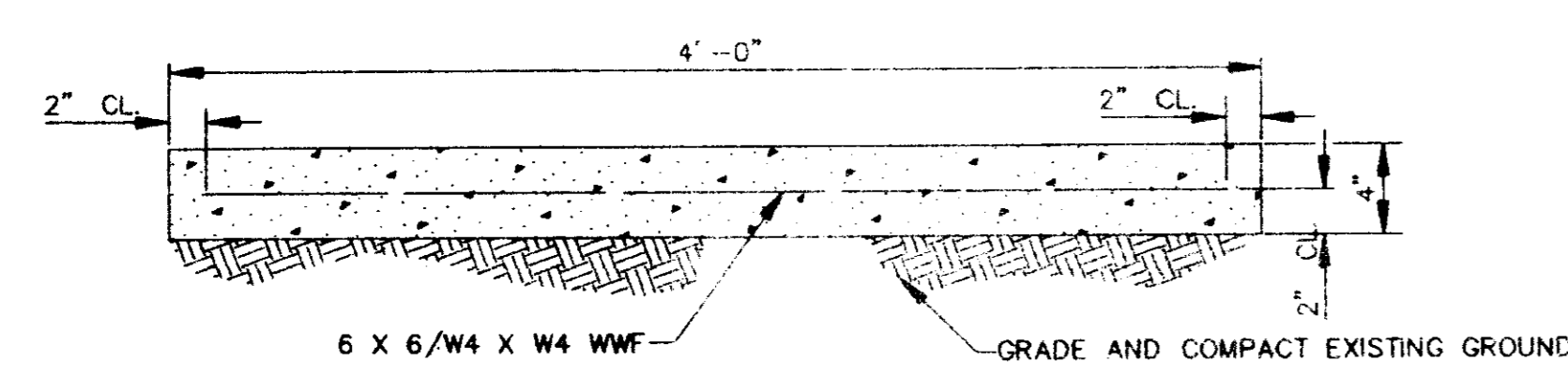
**CURB END TRANSITION IN RADIUS SECTION**  
(TO BE PAID FOR AS COMBINATION CURB & GUTTER)



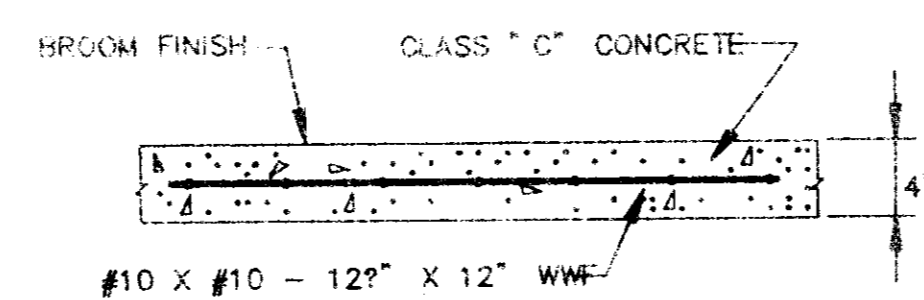
**STANDARD CURB AND GUTTER**  
N.T.S.



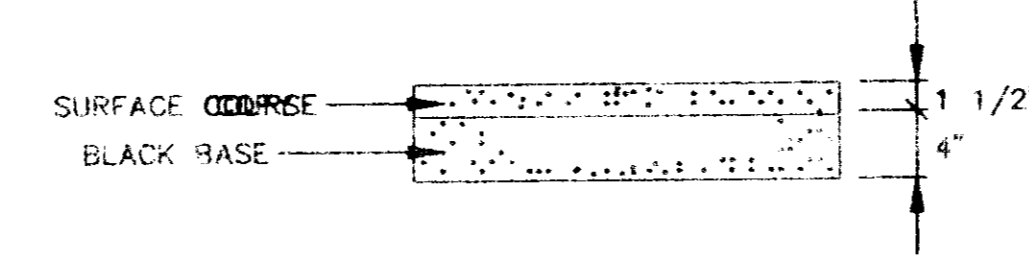
**SECTION A-A**  
N.T.S.



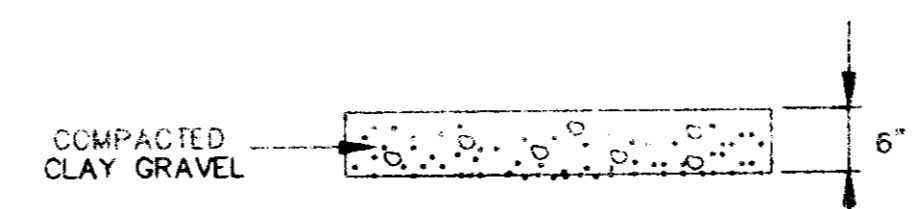
**SECTION B-B**  
N.T.S.



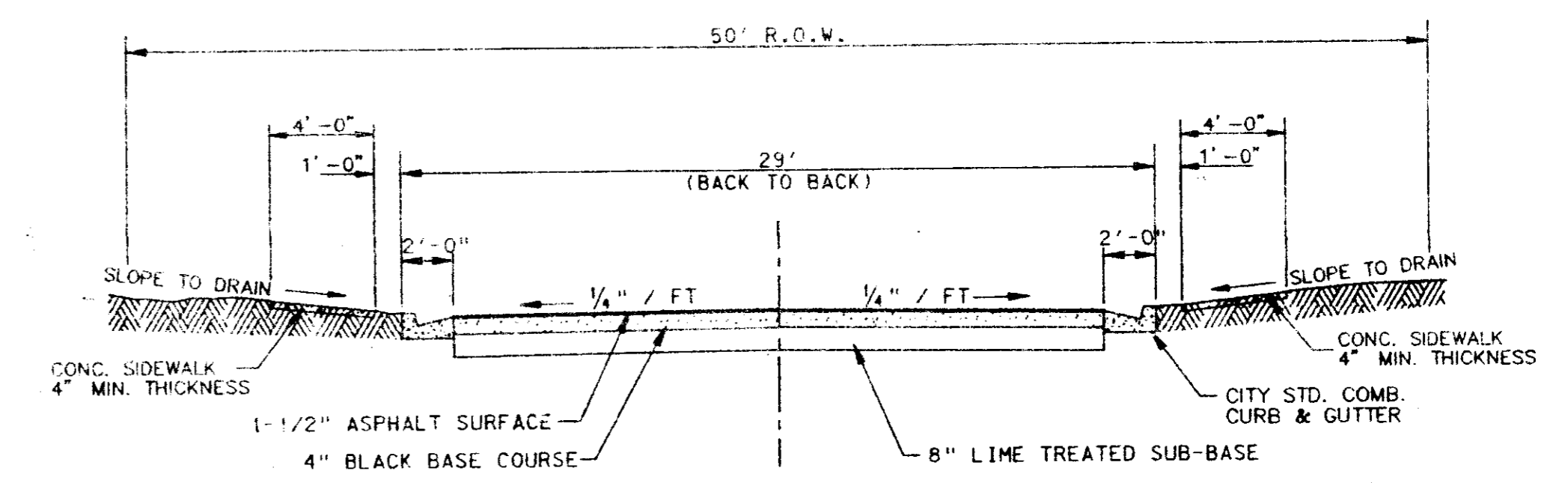
**TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR**



**TYPICAL ASPHALT DRIVEWAY REPAIR**



**TYPICAL GRAVEL DRIVEWAY REPAIR**



**TYPICAL STREET SECTION**  
N.T.S.

NOTE:  
2 - 3/4\"/>

**SHADOWOOD SUBDIVISION**  
**PART 3A**

**MISCELLANEOUS DETAILS**

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DESIGNED BY: P.L.D. SCALE: NONE  
DRAWN BY: J.S.R. DATE: 05/16/95

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