

PEACH ORCHARD TOWNHOMES

SITUATED IN THE
NE1/4 OF SECTION 31, T7N, R2E
CITY OF RIDGELAND - MADISON COUNTY, MISSISSIPPI

MAYOR

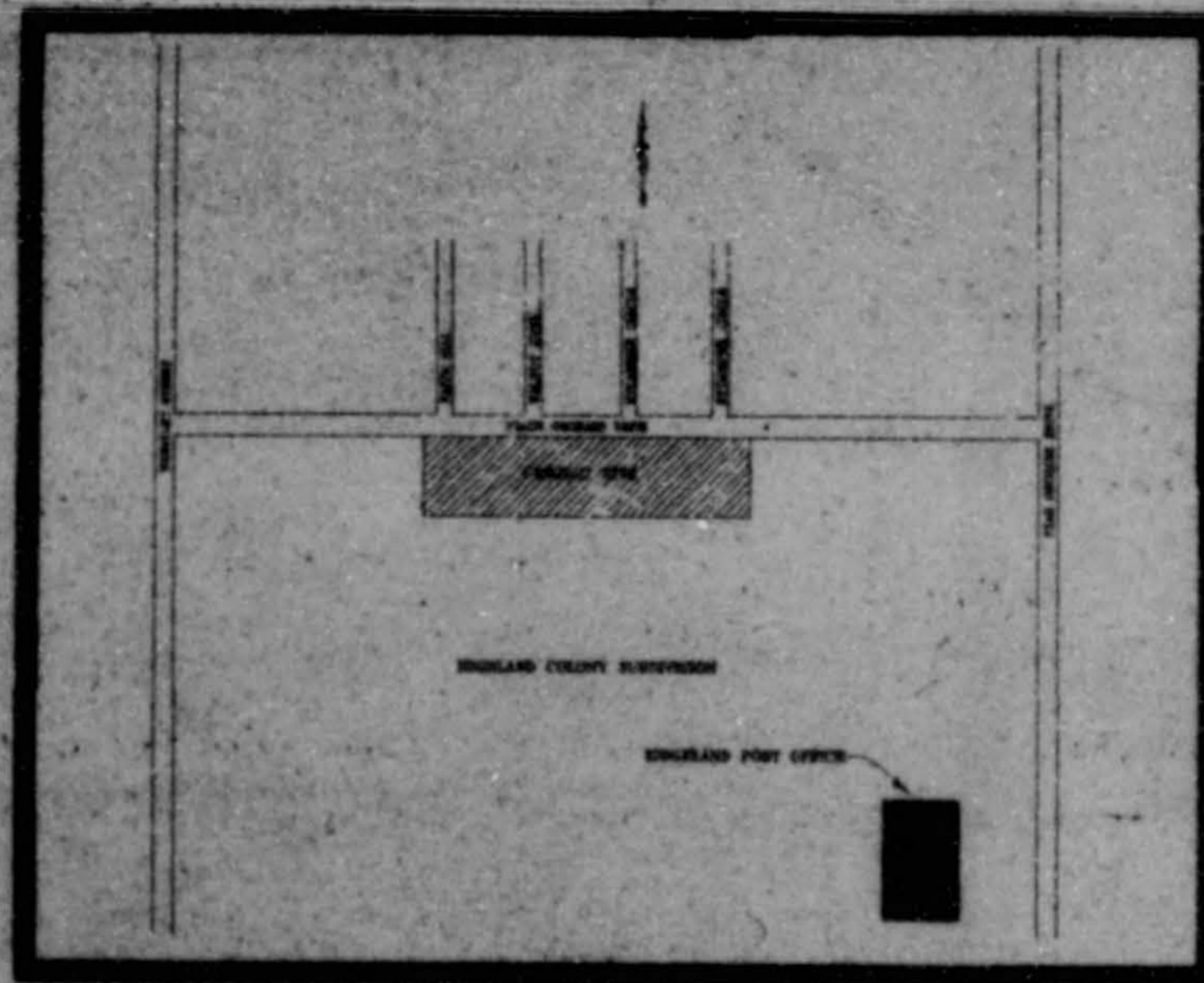
Gene F. McGee

CITY CLERK

Michael R. McPherson

BOARD OF ALDERMAN

Harvey Carr, Jr.	Ward 1
Daryl Smith	Ward 2
Brian Barcellona	Ward 3
Al Bible	Ward 4
R. Joseph Barlow	Ward 5
Linda Davis	Ward 6
Chuck Kobert	At-Large
Mayor Pro Tempore	

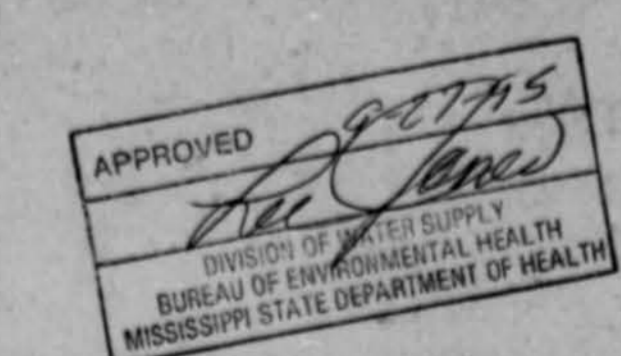


VICINITY MAP

SHEET INDEX

SHT NO.	TITLE
1	COVER SHEET
2	SITE PLAN
3	PLAN-PROFILE STREET,SEWER & GRADING
4	PLAN-PROFILE STREET,SEWER & GRADING
5	PLAN-PROFILE STREET,SEWER & GRADING
6	CITY OF RIDGELAND STANDARD DETAILS
7	CITY OF RIDGELAND STANDARD DETAILS
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9	CITY OF RIDGELAND STANDARD DETAILS
10	CITY OF RIDGELAND STANDARD DETAILS

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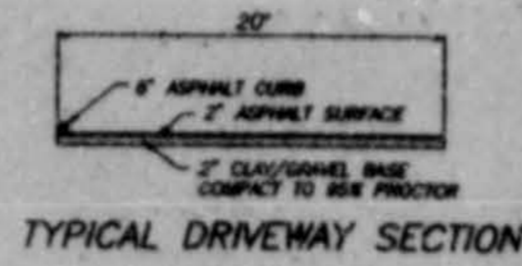
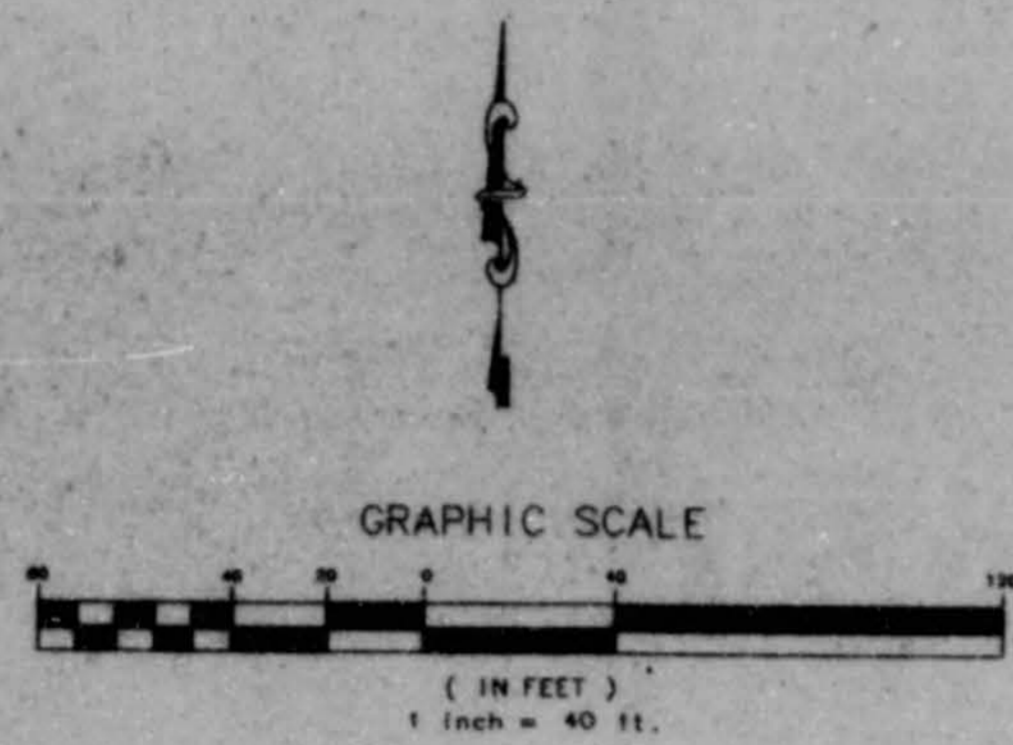
JUNE 19, 1995

REVISION: 7-28-95 SCALE: 1/4" = 1'-0" DATE: 06-19-95 DRAWN BY: C.W.M. CHECKED BY: B.S.	H. M. REALTY, INC. 2600 INSURANCE CENTER DR., SUITE 200A JACKSON, MISSISSIPPI 39216	CHARLES W. McLEOD, P.E. CONSULTING CIVIL ENGINEER 208 N. WINDYBROOK RIDGELAND, MISSISSIPPI 39157 OFFICE TEL. (601) 853-9020 HOME TEL. (601) 898-0819	RESIDENTIAL MULTIPLEX TOWNHOMES LOCATED ON PEACH ORCHARD DRIVE RIDGELAND, MISSISSIPPI	SHEET NO. 1 OF 10 DATE: 7-28-95
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513

SITE PLAN

2.78 ACRES



DRAINAGE CALCULATIONS

REFERENCE: ILLUSTRATED HANDBOOK FOR CIVIL ENGINEERS, THIRD EDITION, FREDERICK S. MERRILL, EDITOR, McGRAW HILL, PUBLISHED

SECTION 21, Pg. 88-90

RATIONAL FORMULA: $Q = CiA$
 Q = Peak Discharge, ft³/s
 C = runoff coefficient = % of rain that appears as direct runoff
 i = rainfall intensity, in/h
 A = drainage area, acres

STEEL FORMULA - rainfall intensity
 $I = \frac{100}{T + 10}$
 I = rainfall intensity
 K, D = respectively, coefficient, factor, depending on conditions that affect rainfall intensity
 F = frequency of occurrence of rainfall, years
 L = duration of storm, min. or time of concentration

TABLE 21-17 (Factor for Message Area only)

Frequency	Coefficients	Message Area
2	K	206
4	K	247
10	D	28
10	K	250
25	b	38
50	b	37
50	K	315
100	b	38
100	K	357
	b	33

EXISTING DATA

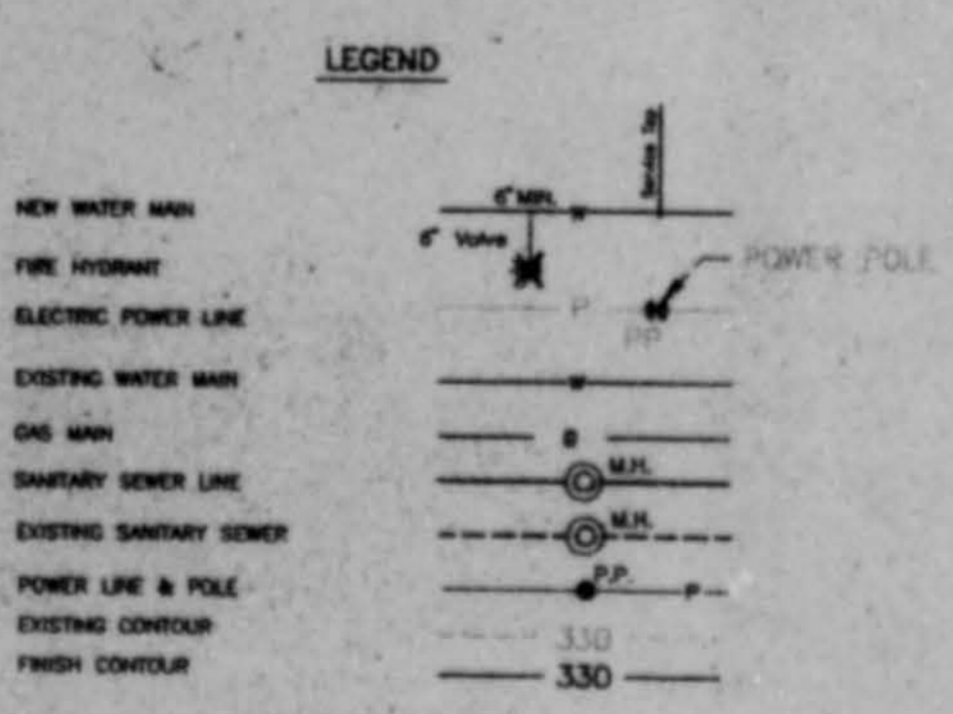
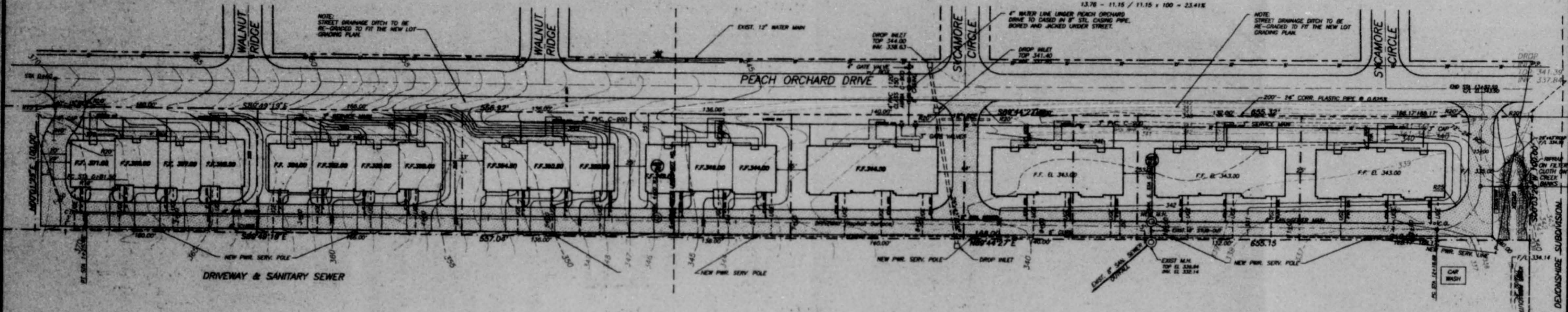
AREA OF SITE = 2.78 ACRES
 AREA BUILDING 5,333 S.F. / 23040 = 0.122 ACRES + 7 = 0.854 ACRES
 AREA ASPHALT 0.583 ACRES
 AREA OF REMAINING GROUND = 2.78 - (0.854 + 0.853) = 1.263 ACRES
 C FOR ASPHALT = 0.80
 C FOR ROOF = 0.95
 C FOR GND = 0.65

DRAINAGE CALCULATIONS

DISCHARGE PRIOR TO CONSTRUCTION
 $Q_{dis} = 0.65 \times 6.17 \times 2.78 = 11.15$ CFS

DISCHARGE DUE TO CONSTRUCTION
 $Q_{dis} = 0.85 \times 6.17 \times 0.854 = 5.01$ CFS
 $Q_{dis} = 0.90 \times 6.17 \times 0.683 = 3.68$ CFS
 $Q_{dis} = 0.85 \times 6.17 \times 1.263 = 5.07$ CFS
 TOTAL 13.76 CFS

DISCHARGE DUE TO CONSTRUCTION
 $13.76 - 11.15 / 11.15 \times 100 = 23.41\%$



JACKSON PROJECTS PARTNERSHIP
(Trace Apartment Complex)

OWNERS:
 H & M REALTY, INC.
 2000 INSURANCE CENTER DRIVE
 SUITE 200A
 JACKSON, MISSISSIPPI 39216

WATER LINE SPECIFICATIONS
 VALVES TO GATE PIPE IN C.I. BOXES
 ALL FITTINGS TO BE C.I. CLASS 150
 PIPE TO BE CLASS 150 PNC 1120
 CONFORMING TO AWWA C-900

PRESENT ZONING: R-3
 FLOOD ZONE "X" ACCORDING TO F.I.R.M.
 COMMUNITY PANEL NO. 28089C0320 D
 DATED: APRIL 15, 1994
 PROPOSED LAND USE: TOWNHOUSE BUILDINGS
 AREA OF PARCEL 121,096.80 S.F. - 2.78 ACRES
 PROPOSED BUILDING AREA: 5,333 S.F.
 GROSS LOT COVERED BY BUILDING: 31.48%

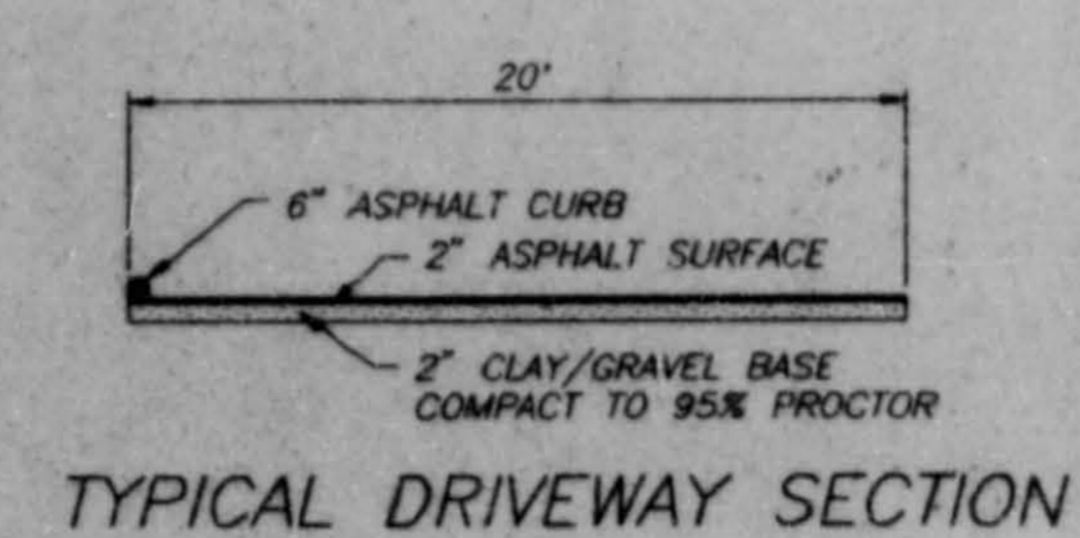
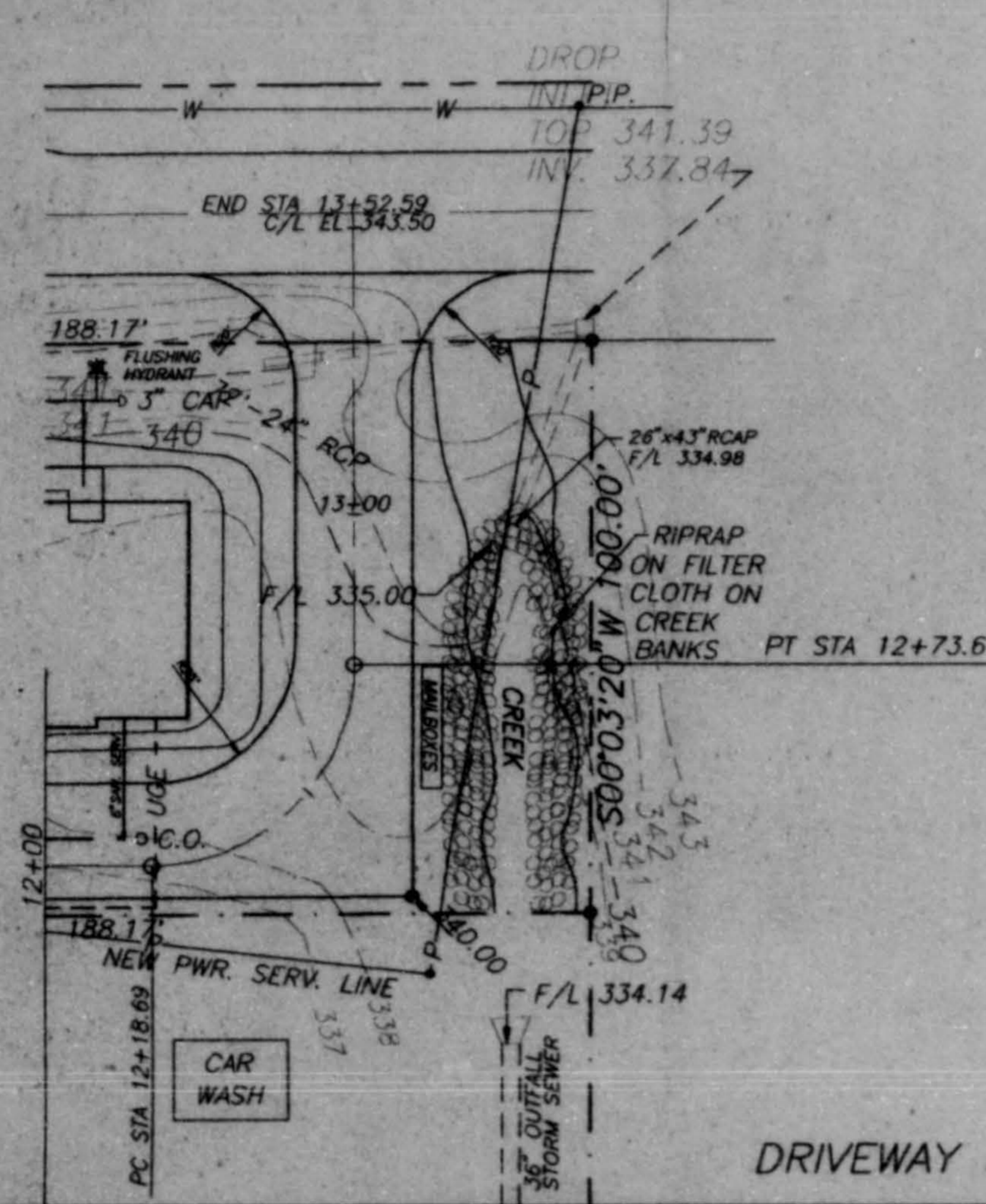
PREPARED BY:
Charles W. McLeod, P.E.
 Consulting Civil Engineer
 308 North Wheatley
 Ridgeland, Mississippi
 Tel. (601) 992-9132



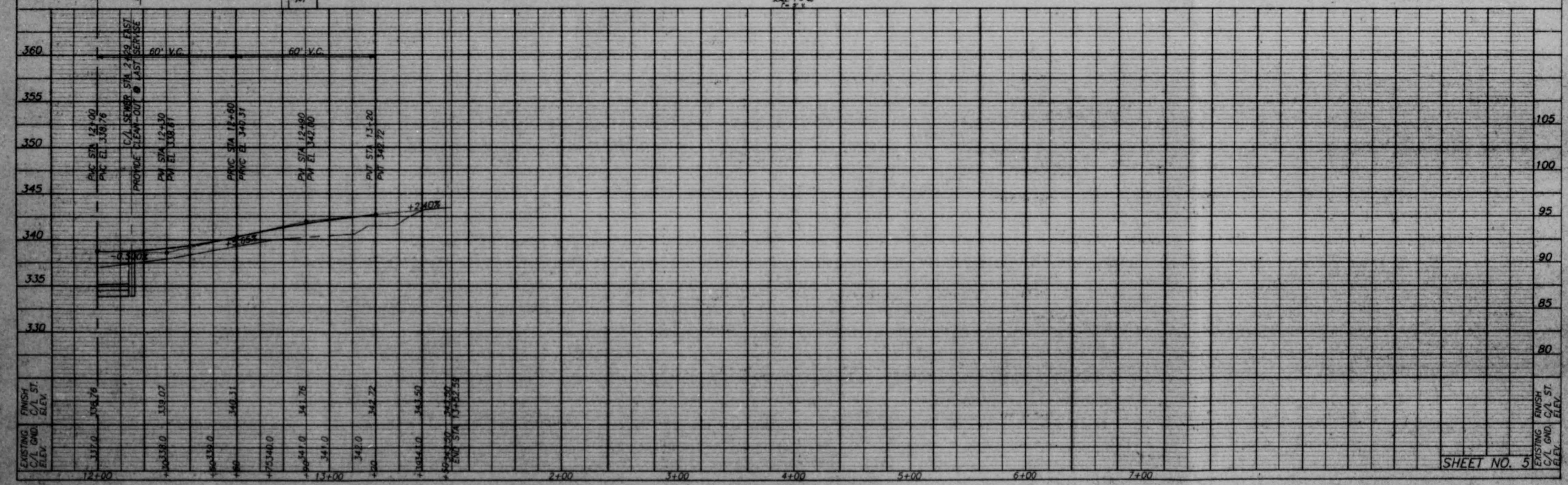
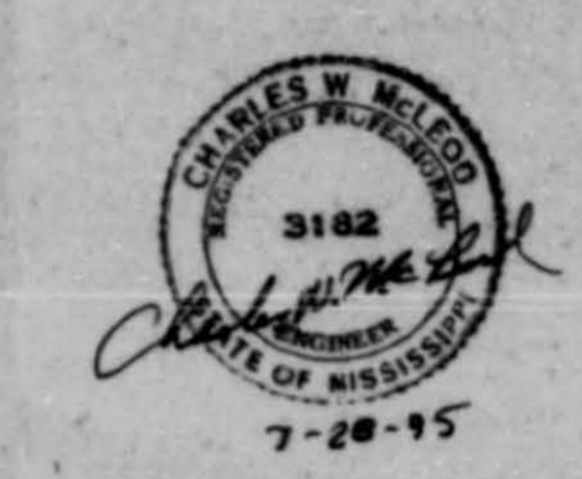
PEACH ORCHARD TOWNHOMES
 PEACH ORCHARD DRIVE
 RIDGELAND, MISSISSIPPI

DATE:	DESIGN BY:	CHECKED BY:
04-03-95	C.W.M.	C.W.M.
REVISED:	DRAWN BY:	CHECKED BY:
04-11-95	C.W.M.	C.W.M.
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:
ADD-ONE SHEET	ADD-ONE SHEET	ADD-ONE SHEET
TITLE: SITE PLAN		
SHEET NUMBER: 2		
OF SHEETS		

514

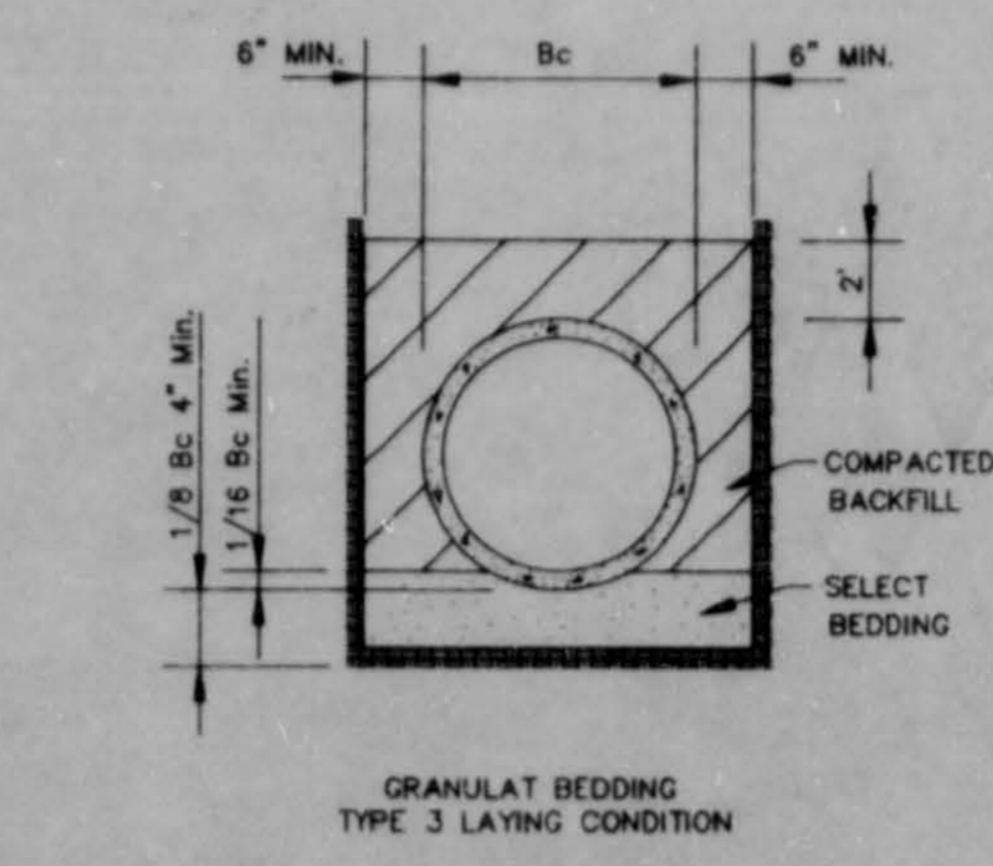
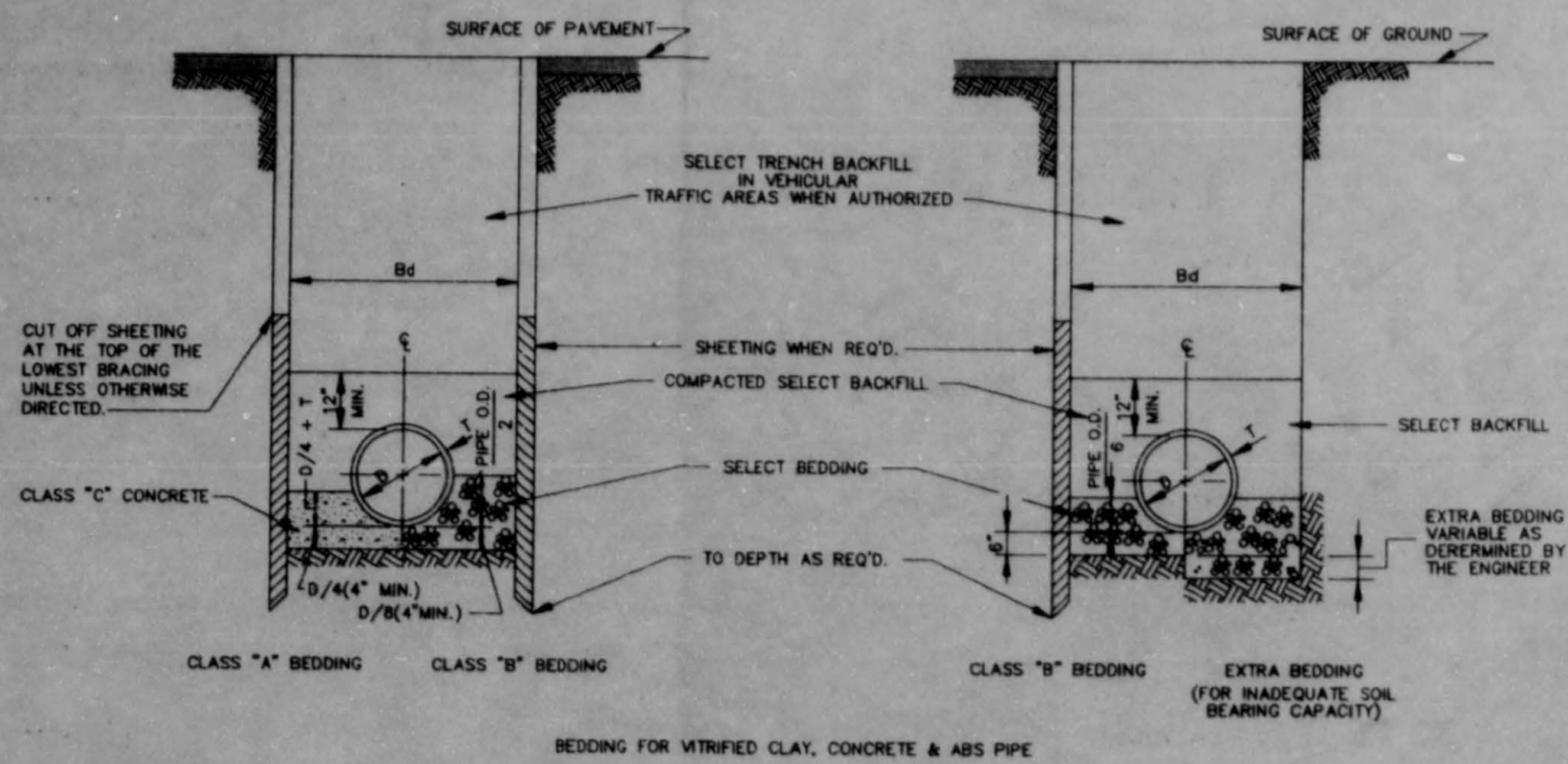


DRIVEWAY & SANITARY SEWER



SHEET NO. 5

517



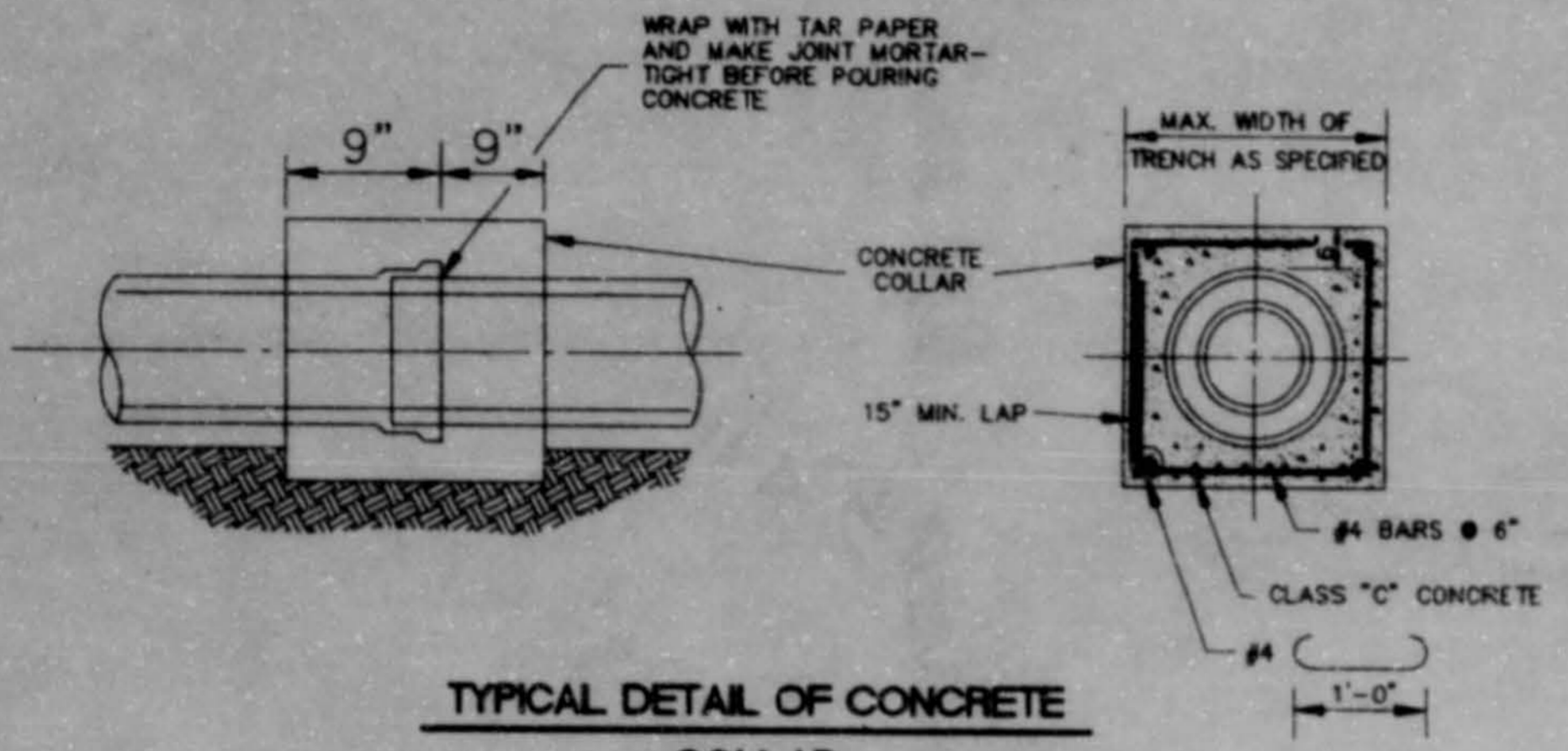
TYPICAL TRENCH DETAILS (FORCE MAIN)

CLASS "A" BEDDING
 MATERIAL SHALL BE CLASS "C" CONCRETE CRADLES. THE PIPE SHALL BE LAID ON CONCRETE SADDLES CONSTRUCTED TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE PIPE WHILE THE CRADLE IS BEING PLACED. PIPE SUPPORTS OF WOOD BLOCKS, LOOSE BRICK, ETC., WILL NOT BE PERMITTED. THE CRADLE SHALL BE POURED AFTER THE JOINTS HAVE BEEN MADE, CARE BEING TAKEN TO PREVENT MOVEMENT OF THE PIPE. WHENEVER THE CONTRACTOR PLACES CONCRETE OUTSIDE THE DIMENSIONS SHOWN ON THE DRAWINGS, THE COST OF SUCH CONCRETE WILL BE AT THE CONTRACTOR'S EXPENSE.

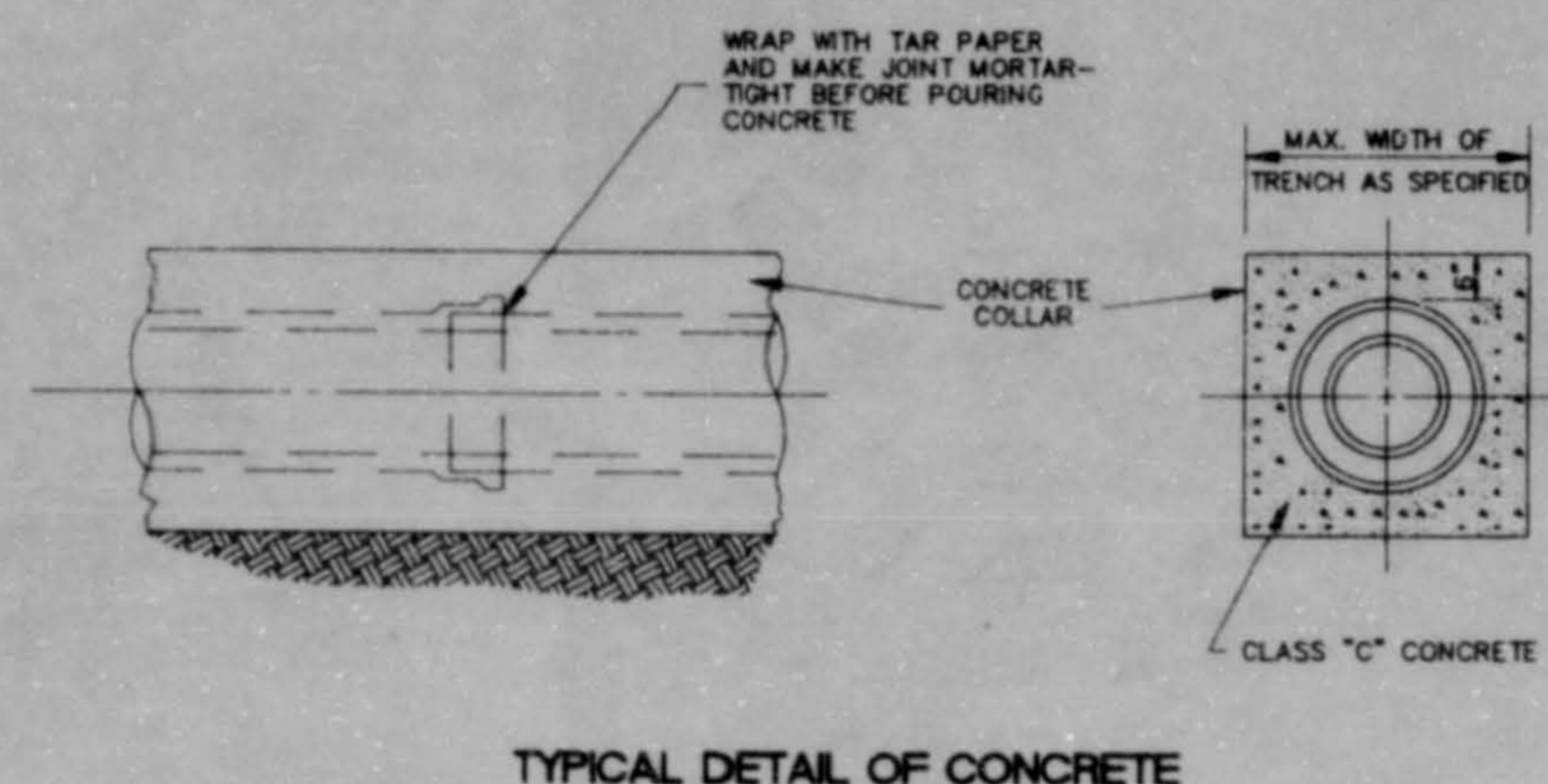
CLASS "B" BEDDING
 MATERIAL SHALL BE SELECT BEDDING AS SPECIFIED. MATERIAL SHALL BE CAREFULLY PLACED AND THOROUGHLY COMPACTED BY TAMPING.

CLASS "C" BEDDING (STANDARD BEDDING)
 MATERIAL SHALL BE THE SAME AS FOR CLASS "B" BEDDING AND SHALL BE PLACED AS SHOWN BY STANDARD DETAILS FOR THE TYPE OF PIPE USED.

TYPICAL TRENCH DETAILS
 N.T.S.



TYPICAL DETAIL OF CONCRETE COLLAR
 N.T.S.



TYPICAL DETAIL OF CONCRETE ENCASEMENT
 N.T.S.

TABLE "A"
PIPE SIZE

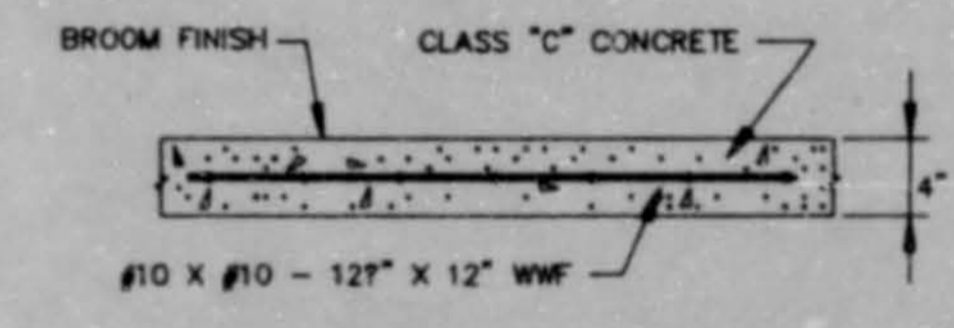
CARRIER PIPE (INCHES)	CASING PIPE	
	DIA. (INCHES)	STEEL PIPE WALL THICK
8	16	1/4"
10	20	5/16"
12	24	3/8"
14 & 16	30	1/2"
18	36	1/2"
24	36	1/2"
30	54	1/2"
36	54	1/2"
42	66	SEE TABLE "B"
48	72	"
54	78	"
60	84	"
66	96	"
72	108	"
84	120	"
96	144	"

TABLE "B"
GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES

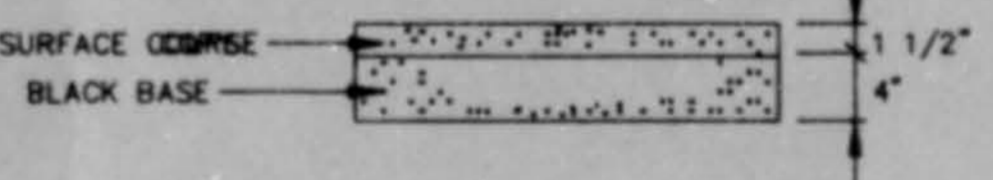
NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET)							
	1-0"	1-10"	1-20"	1-30"	1-40"	1-50"	1-60"	1-70"
48	12	12	12	12	12	12	10	8
54	12	12	12	12	12	12	10	8
60	12	12	12	12	12	12	10	8
66	12	12	12	12	12	10	8	5
72	12	12	12	12	10	8	7	5
78	12	12	12	10	8	7	5	5
84	12	12	10	10	8	5	5	5
96	12	10	10	10	8	5	5	5
108	10	10	10	8	7	5	5	5
120	10	10	8	8	7	5	5	3
144	8	8	8	5	5	3	1	1

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

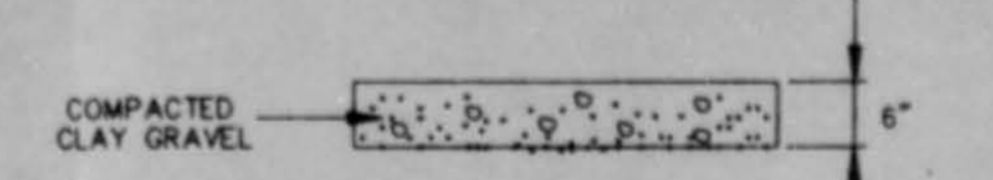
CASING PIPE
 SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING



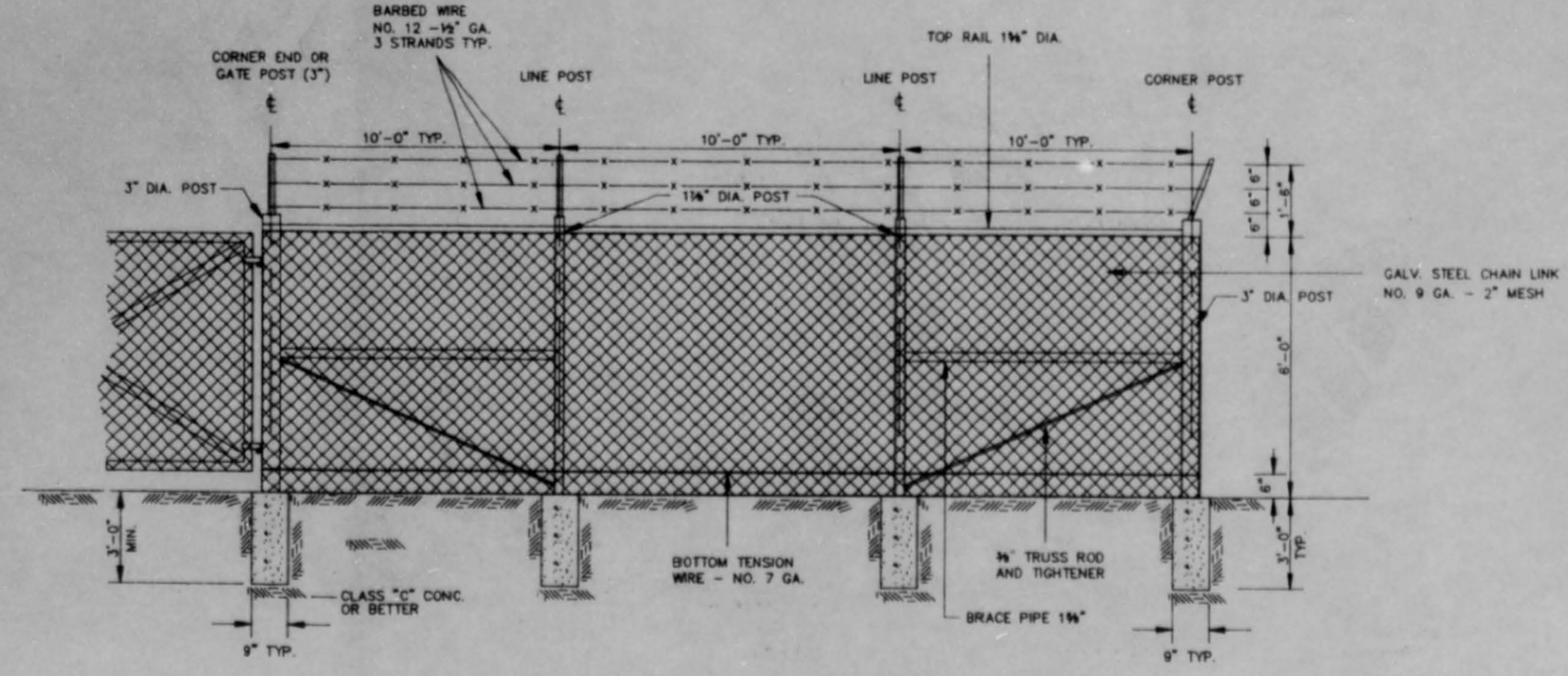
TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR



TYPICAL GRAVEL DRIVEWAY REPAIR



CHAIN LINK FENCE DETAIL
 N.T.S.

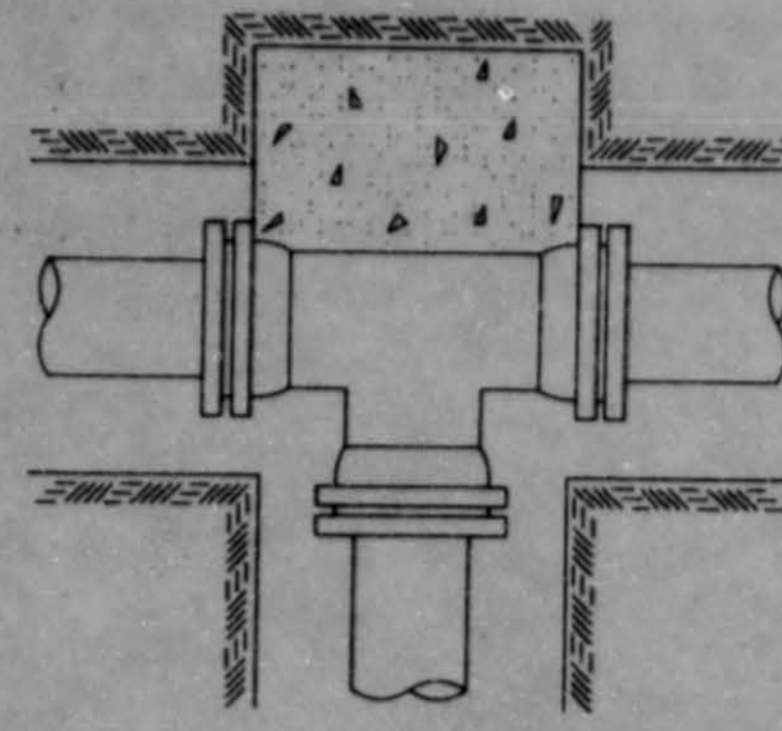
CITY OF RIDGELAND, MS.

STANDARD DETAILS

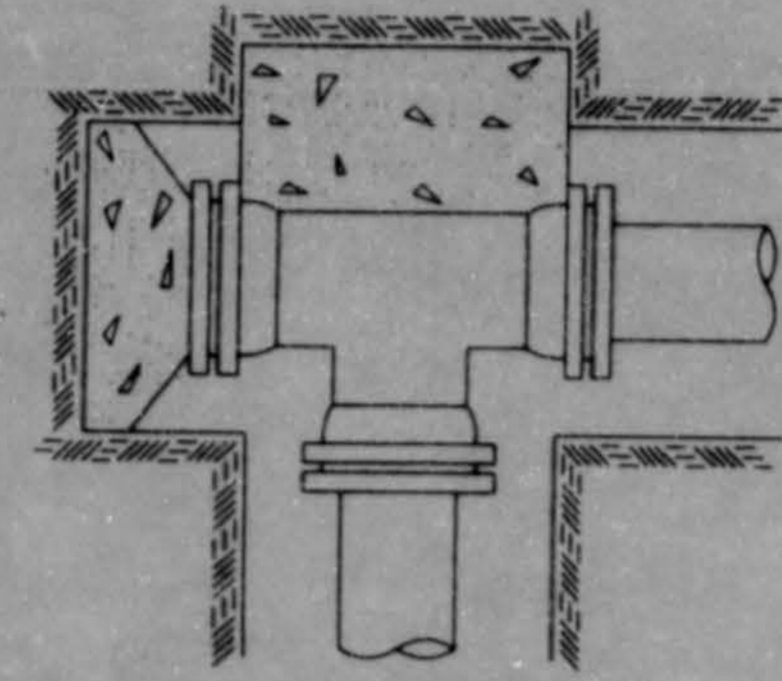
DESIGN: _____ DATE: _____ DRAWING NO: _____

SCALE: _____

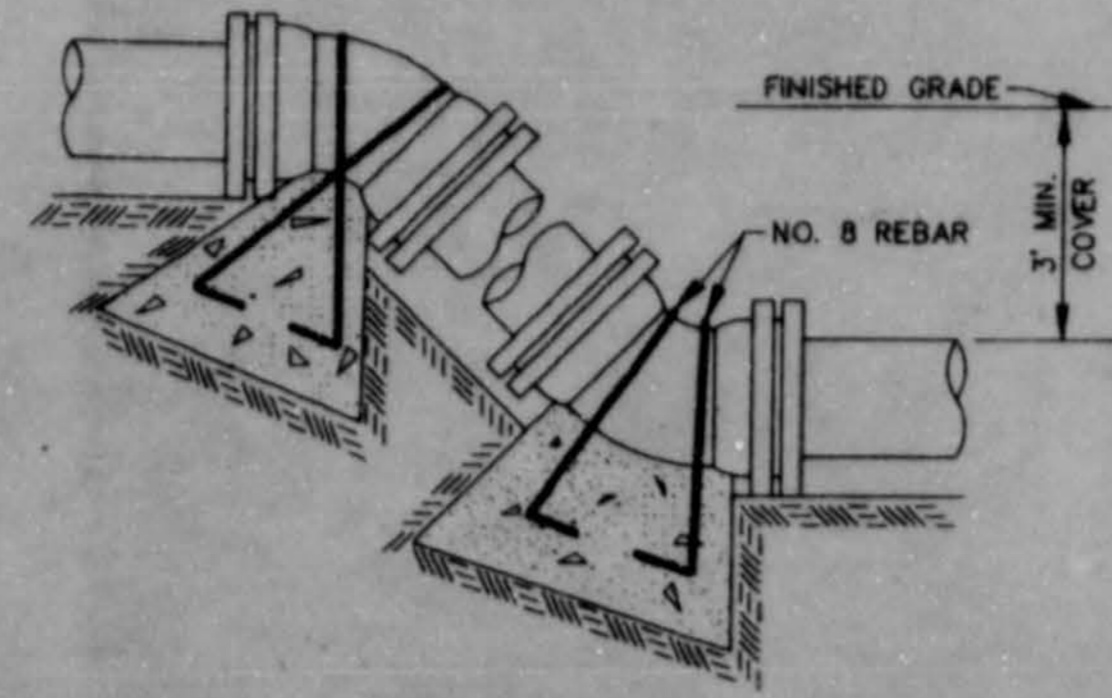
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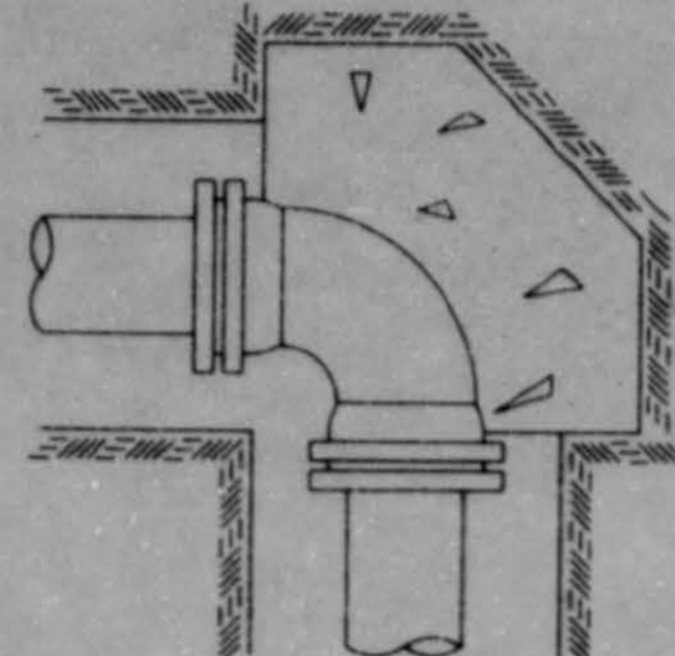
TEE



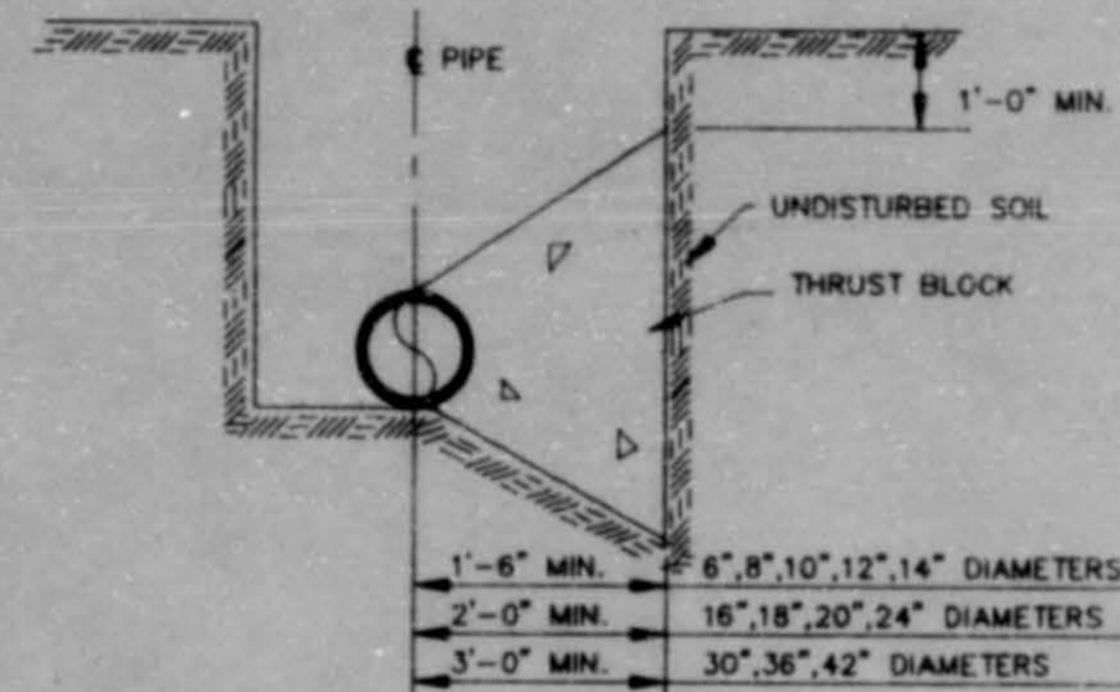
PLUGGED TEE



VERTICAL BENDS



90° BEND



TYPICAL CROSS SECTION

TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

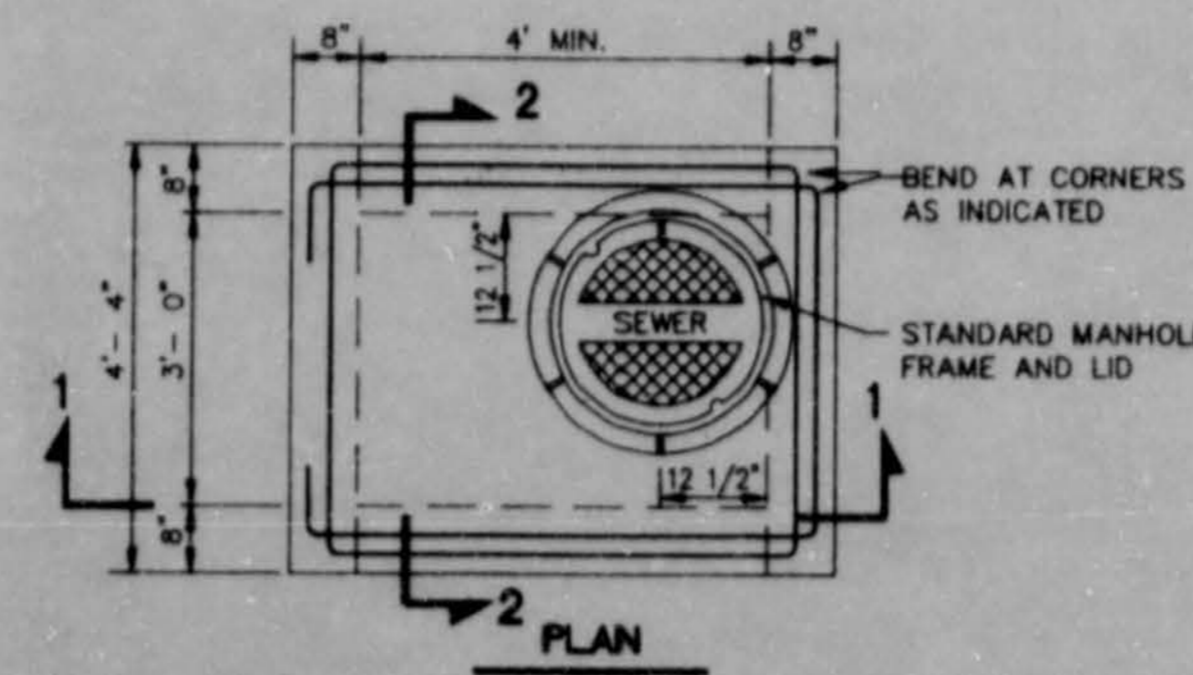
N.T.S.
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH

BEARING AREA IN SQ. FT.

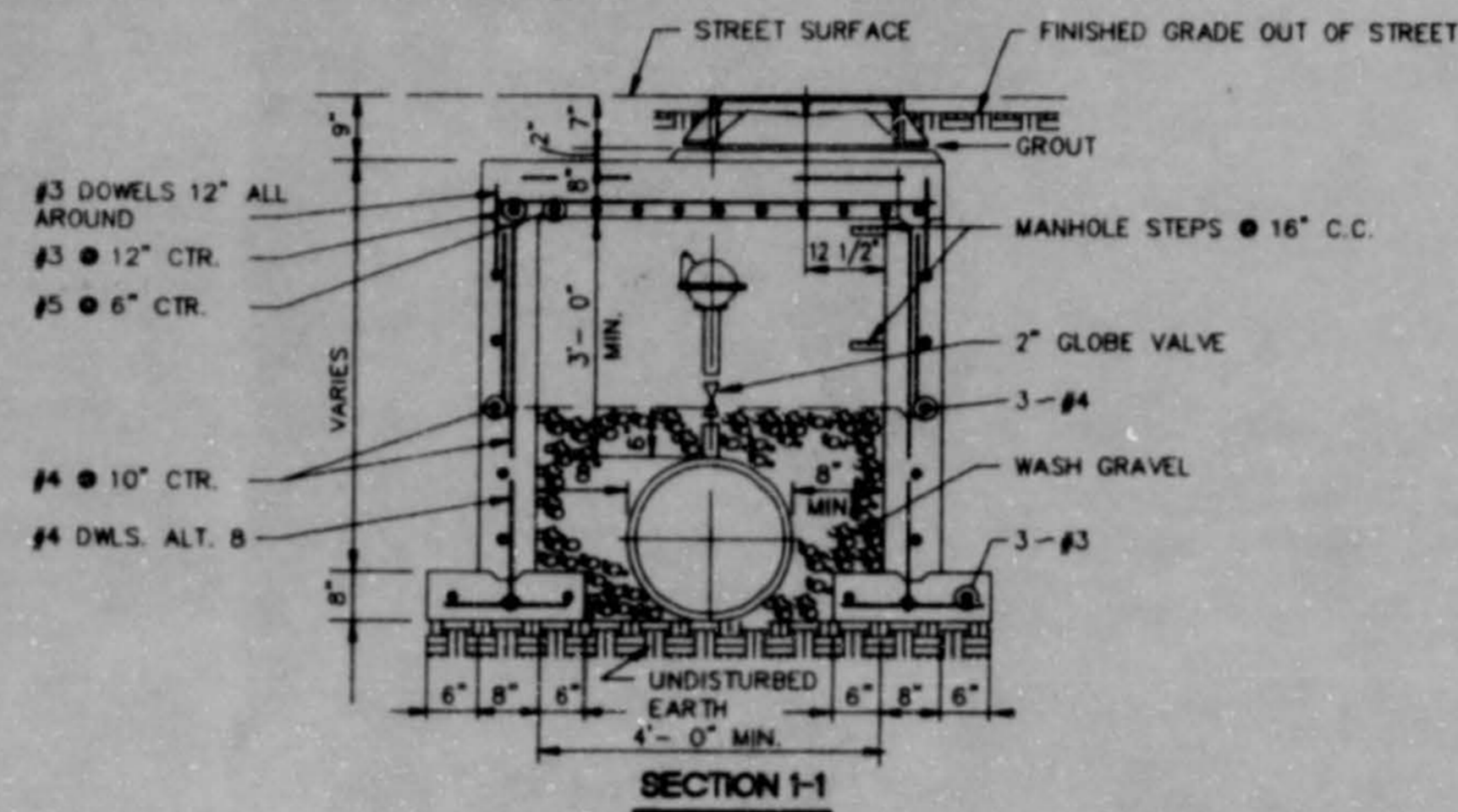
NOMINAL PIPE DIAMETER (IN)	VERTICAL BENDS				NOMINAL PIPE DIAMETER (IN)	VERTICAL BENDS				
	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND		DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	
6	2.5	3.0	2.0	2.0	6	—	—	26.0(1.0)	14.0(5)	7.0(3)
8	4.0	6.0	3.0	2.0	8	—	—	45.0(1.7)	25.0(9)	13.0(5)
10	6.0	9.0	5.0	2.5	10	—	—	68.0(2.5)	37.0(1.4)	19.0(7)
12	9.0	11.0	6.0	3.5	12	—	—	97.0(3.6)	52.0(1.9)	27.0(1.0)
14	12.0	18.0	9.0	5.0	14	—	—	130(4.8)	70.0(2.6)	36.0(1.3)
16	16.0	22.5	12.0	6.0	16	—	—	168(6.2)	91.0(3.4)	46.0(1.7)
18	20.0	28.0	15.0	8.0	18	—	—	211(7.8)	114(4.2)	58.0(2.2)
20	24.5	34.0	19.0	10.0	20	—	—	259(9.6)	140(5.2)	72.0(2.6)
24	35.2	49.0	27.0	14.0	24	—	—	370(13.7)	200(7.4)	102(3.8)
30	54.0	76.0	41.0	21.0	30	—	—	568(21.1)	308(11.4)	156(5.8)
36	77.0	108.0	59.0	30.0	36	—	—	814(30.1)	440(16.3)	225(8.3)
42	104.0	146.0	79.0	40.0	42	—	—	1100(40.7)	595(22.0)	303(11.2)

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.

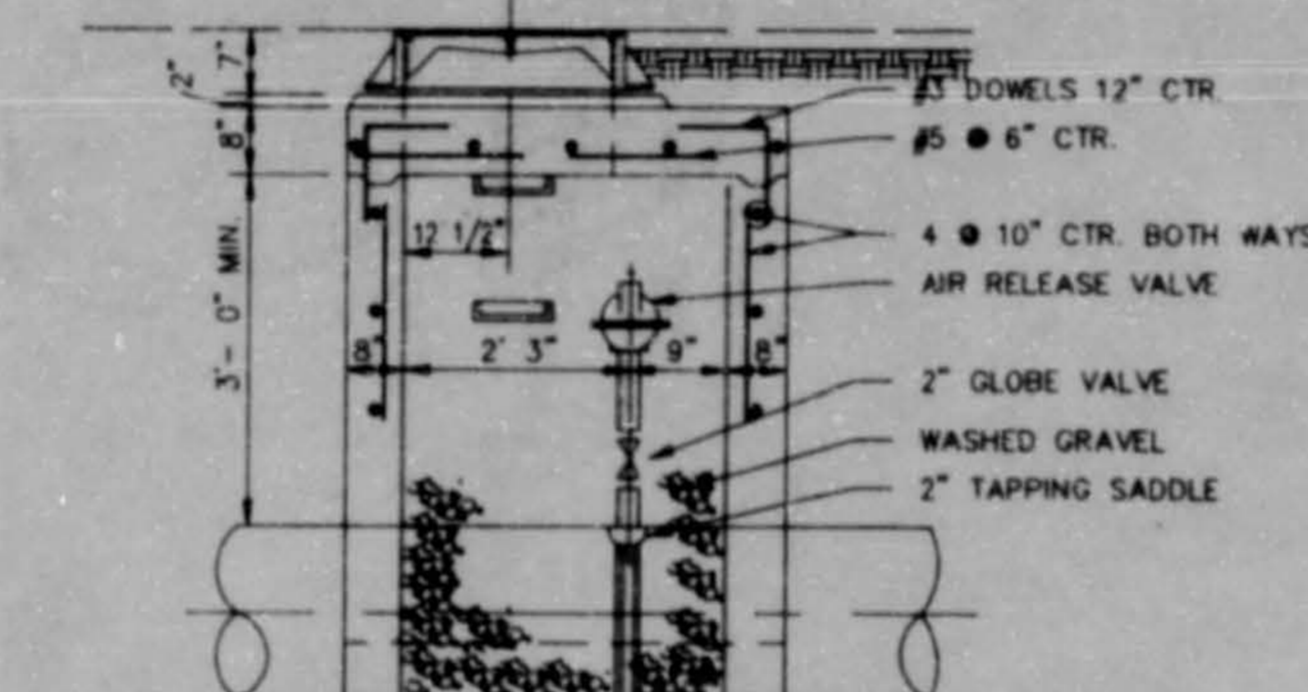
NOTE:
ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



PLAN



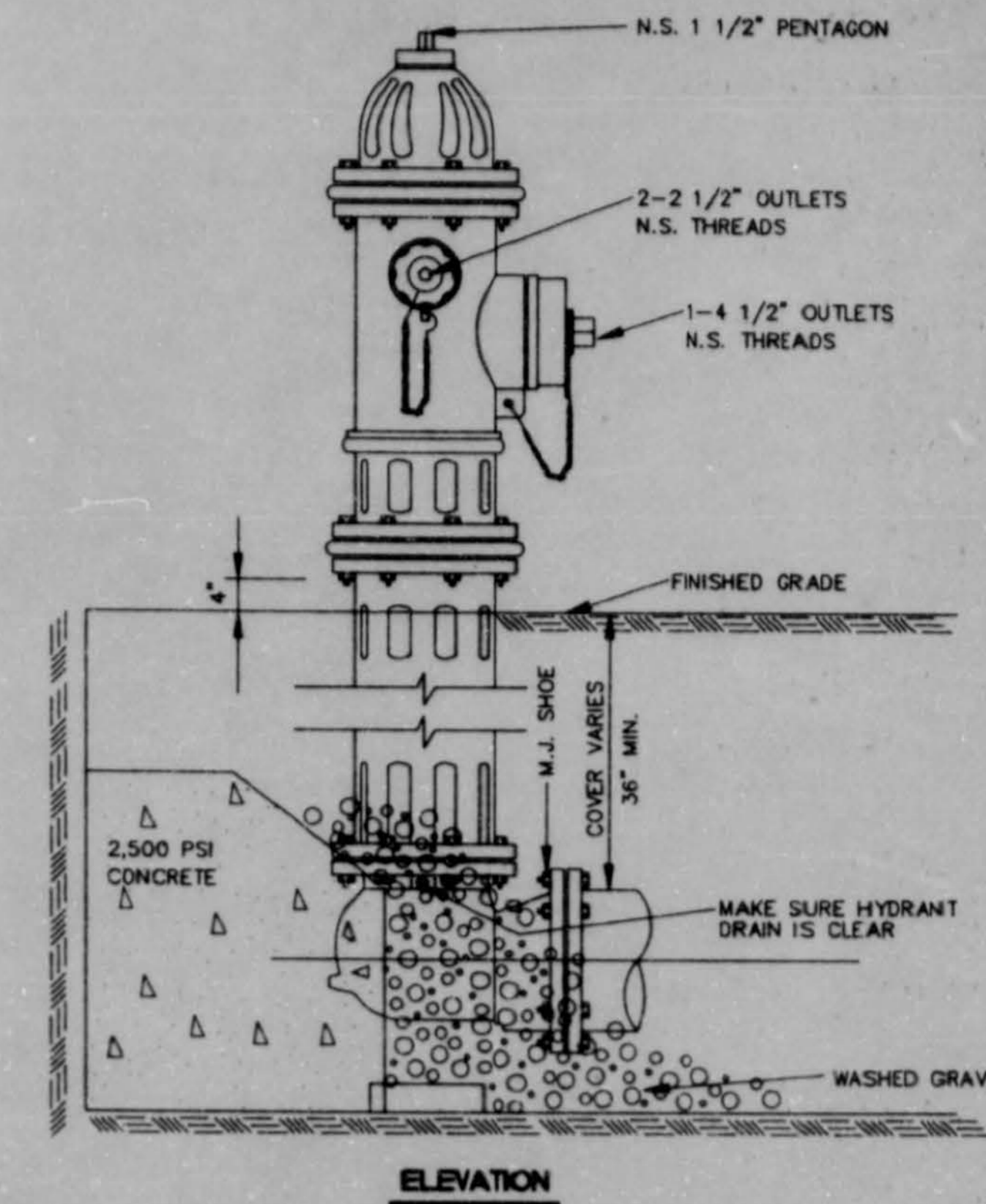
SECTION 1-1



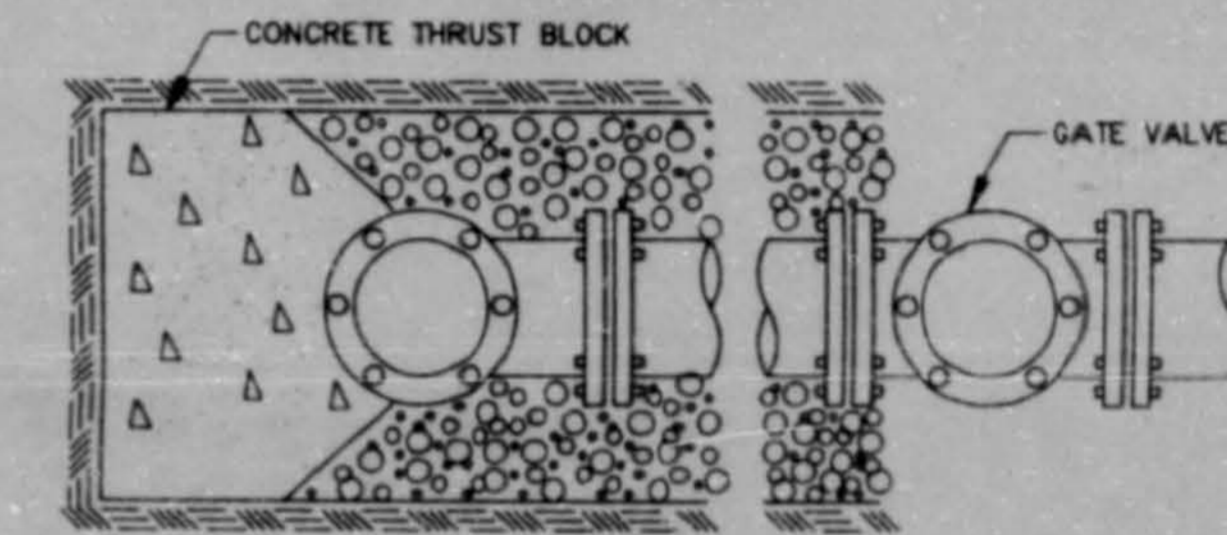
SECTION 2-2

TYPICAL AIR OR AIR VACUUM RELEASE VALVE INSTALLATION WITH MANHOLE

NOT TO SCALE



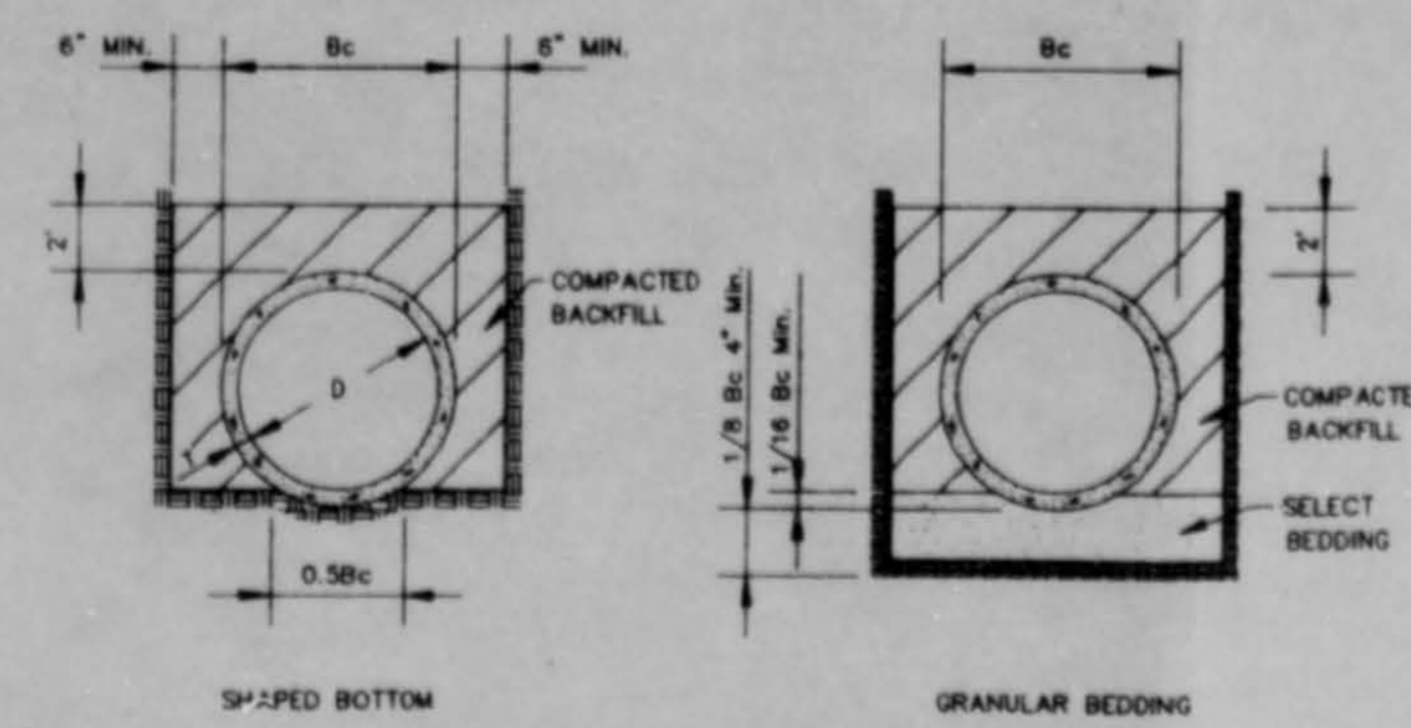
ELEVATION



PLAN

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS. N.T.S.
ANCHOR COUPLINGS REQ'D.



TYPICAL TRENCH DETAILS

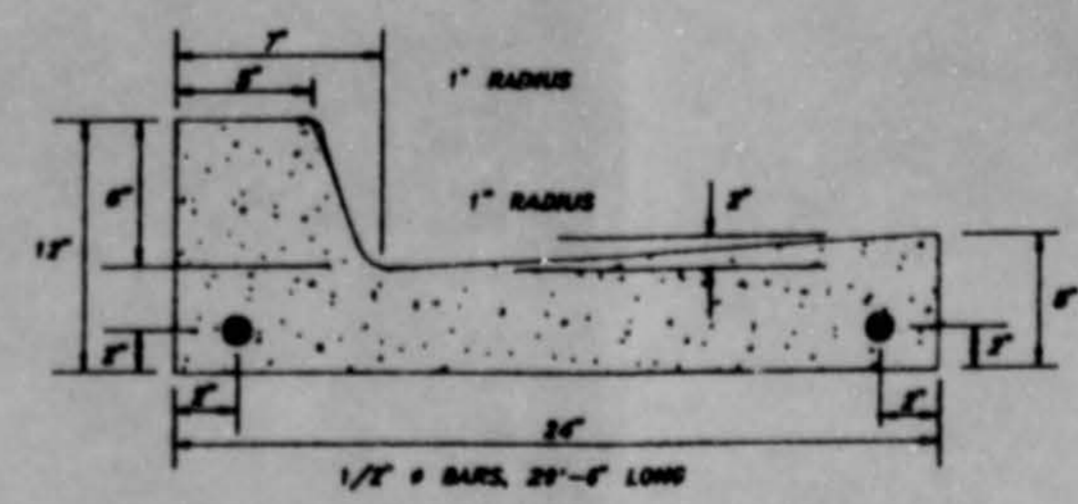
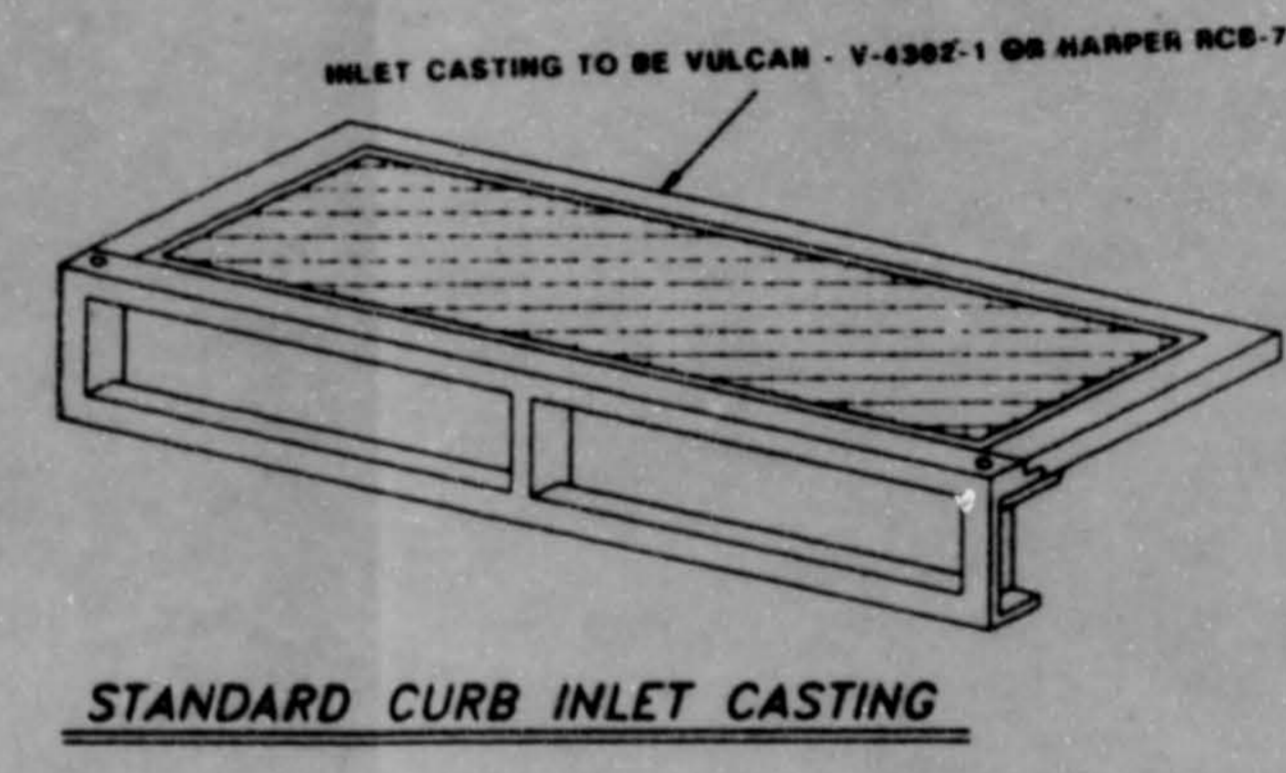
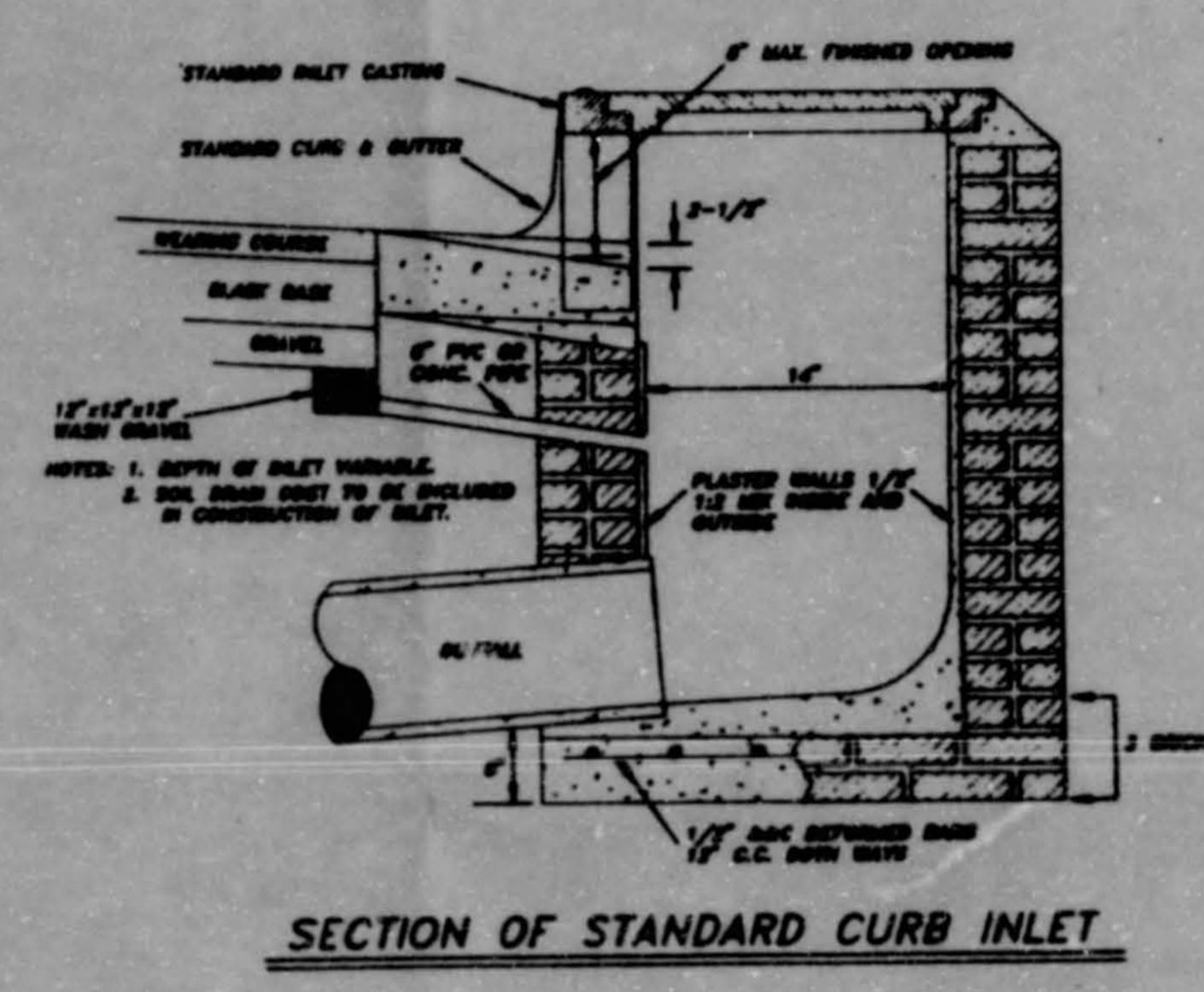
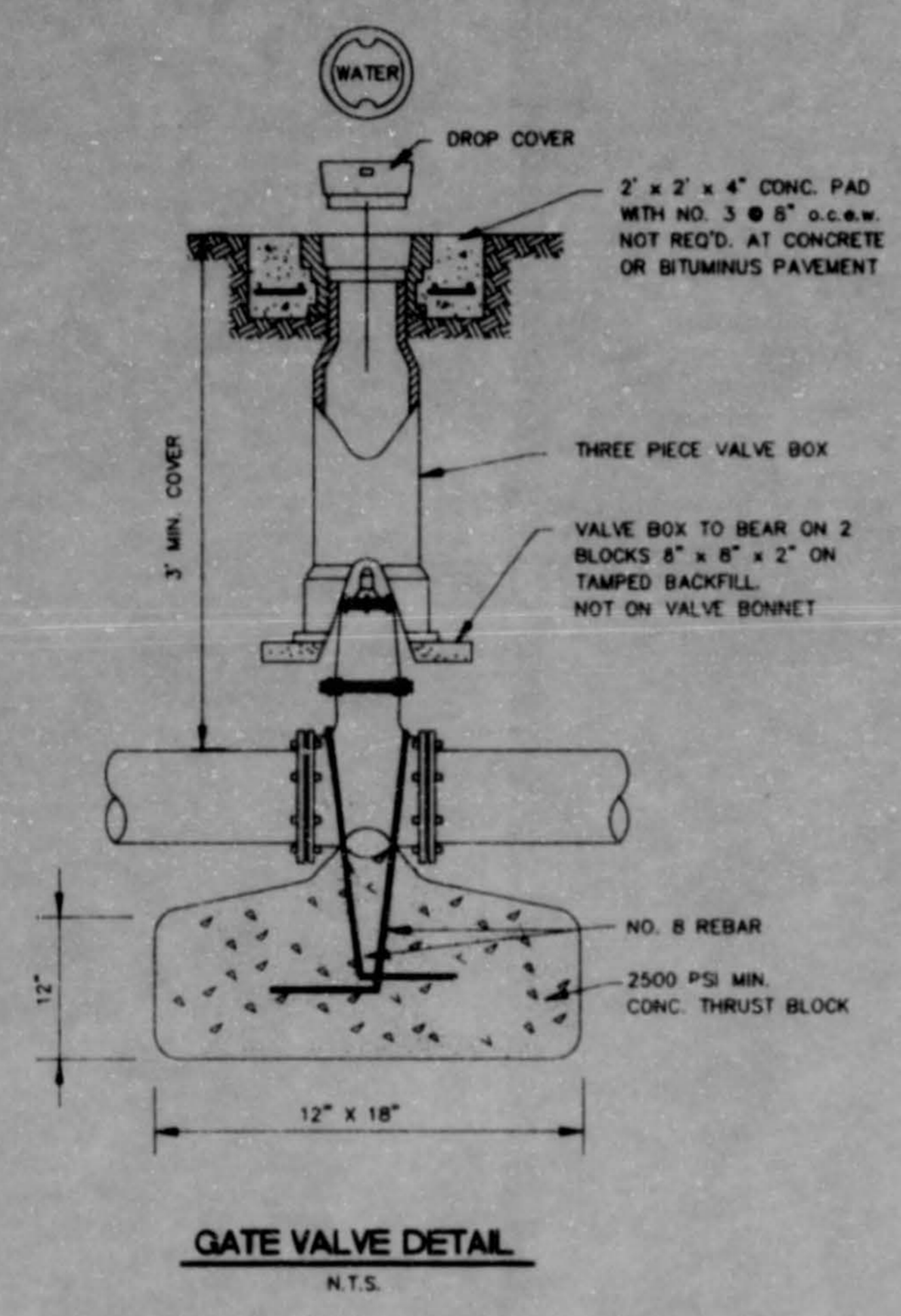
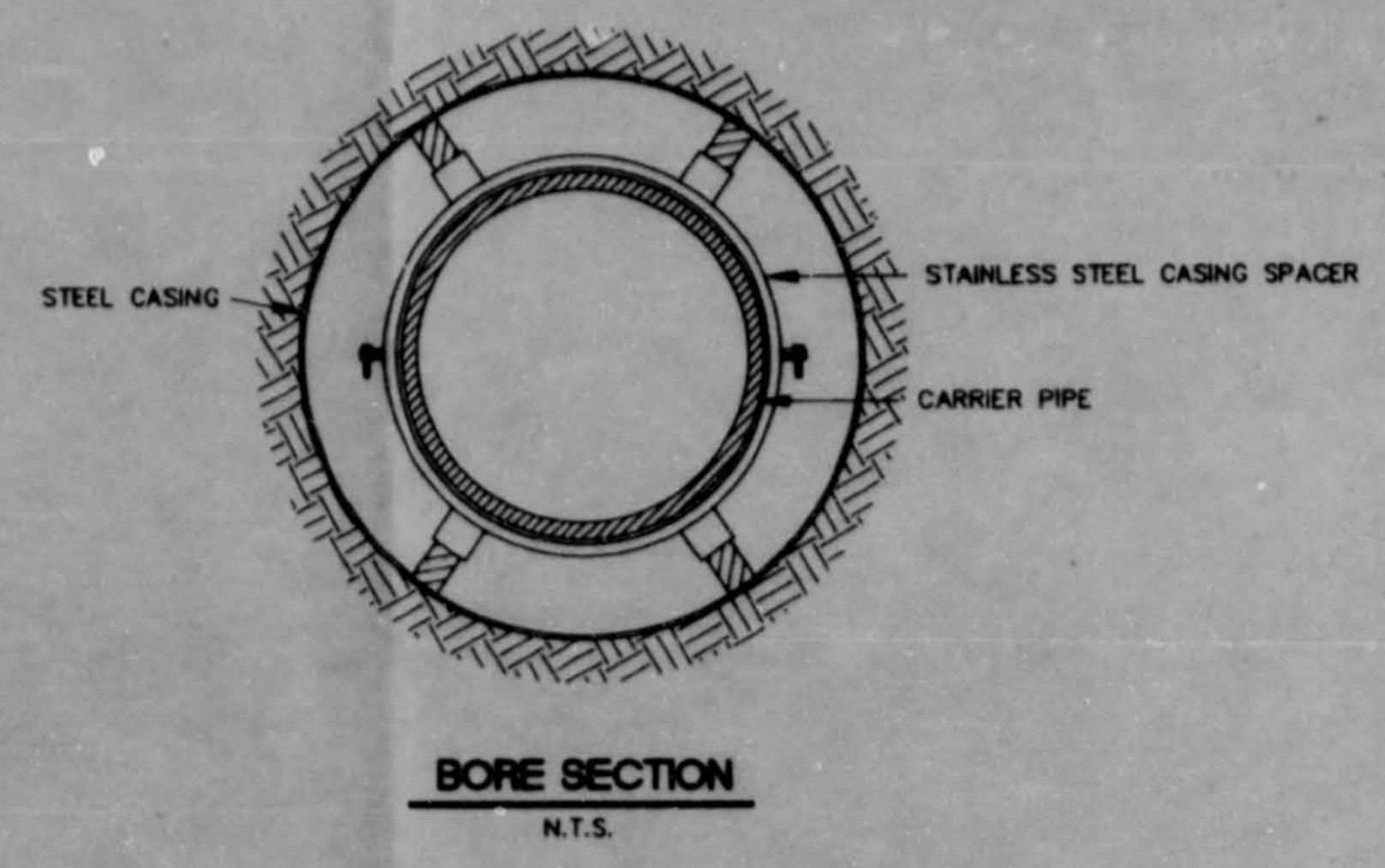
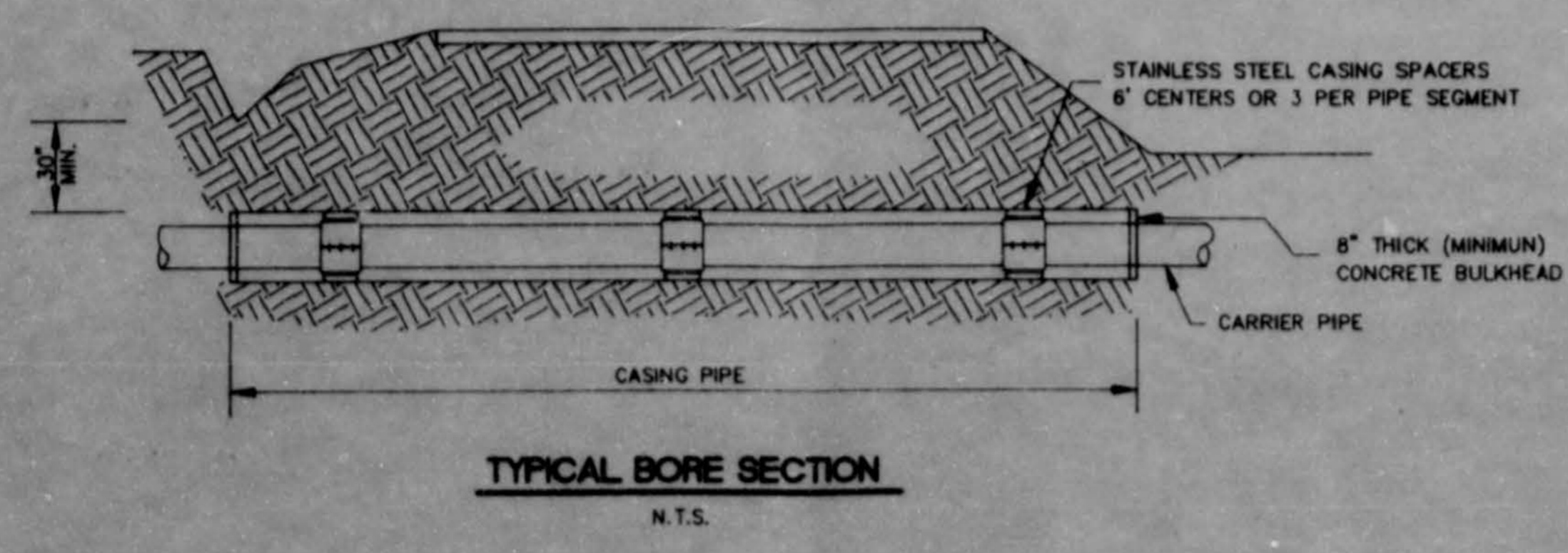
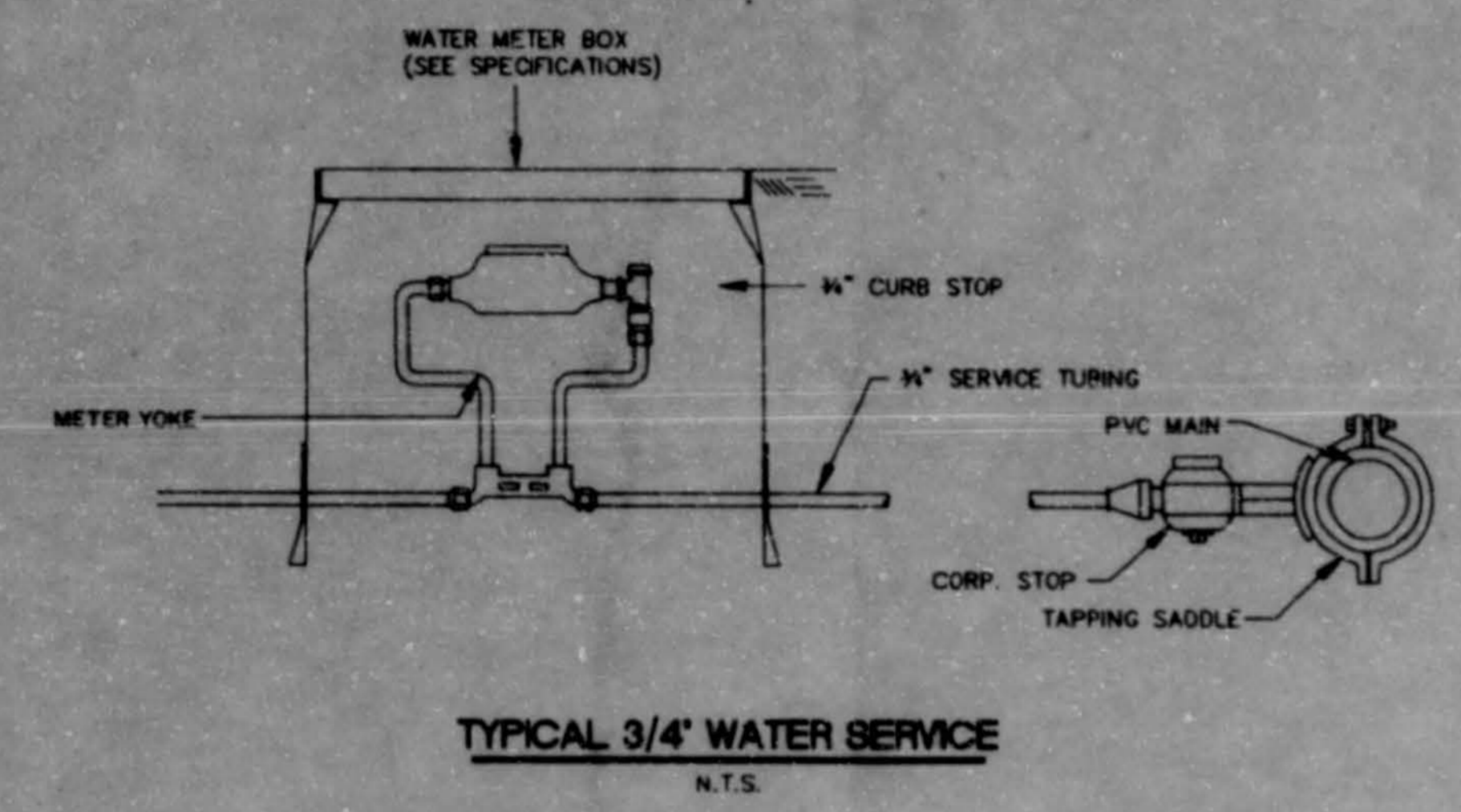
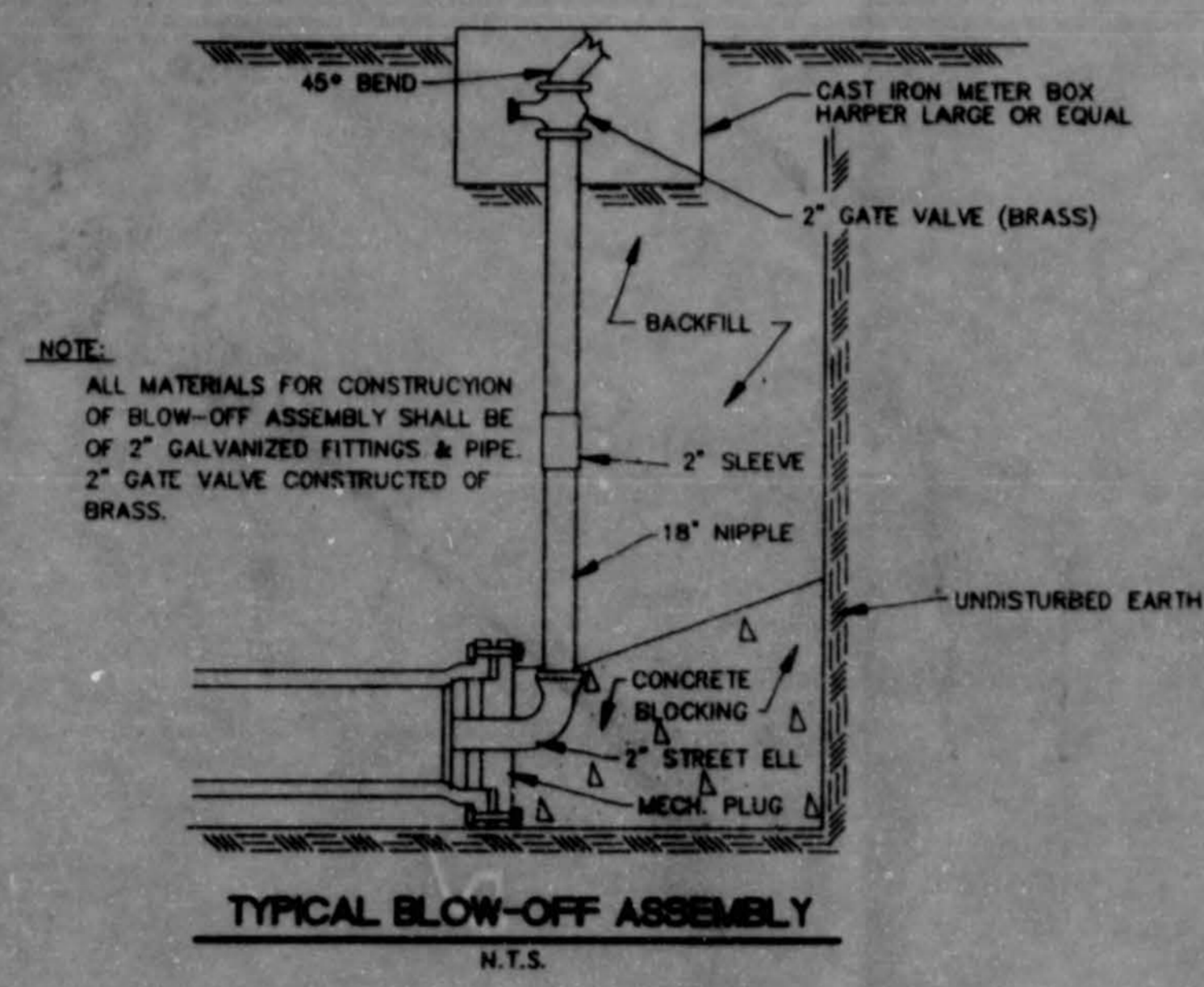
N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

DESIGN	DATE	DRAWING NO.
DRAWN		2 OF
CHECKED		
SCALE		

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NOTES: 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 2500 LB. CONCRETE.
2. 1/2" x 3/4" DOUBLE BARS, 15' LONG REBAR AT EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS AND 1/2" EXPANSION MATERIALS.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

DESIGN		DRAWING NO.	
DRWN			3 OF
CHKD			
SCALE			

THE CITY OF
RIDGELAND

520

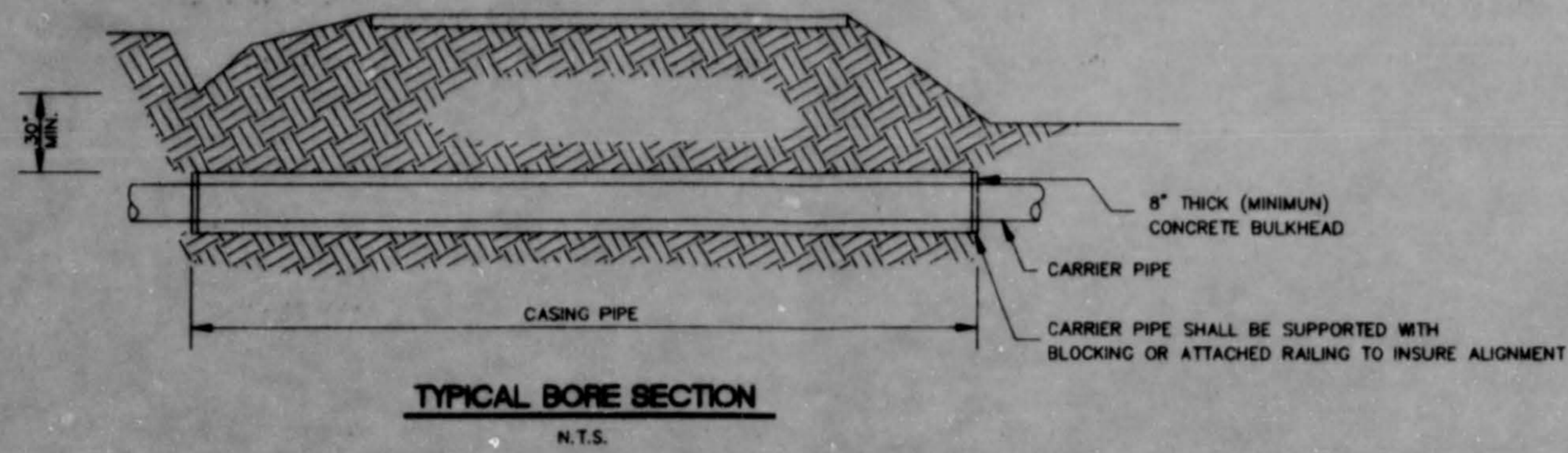
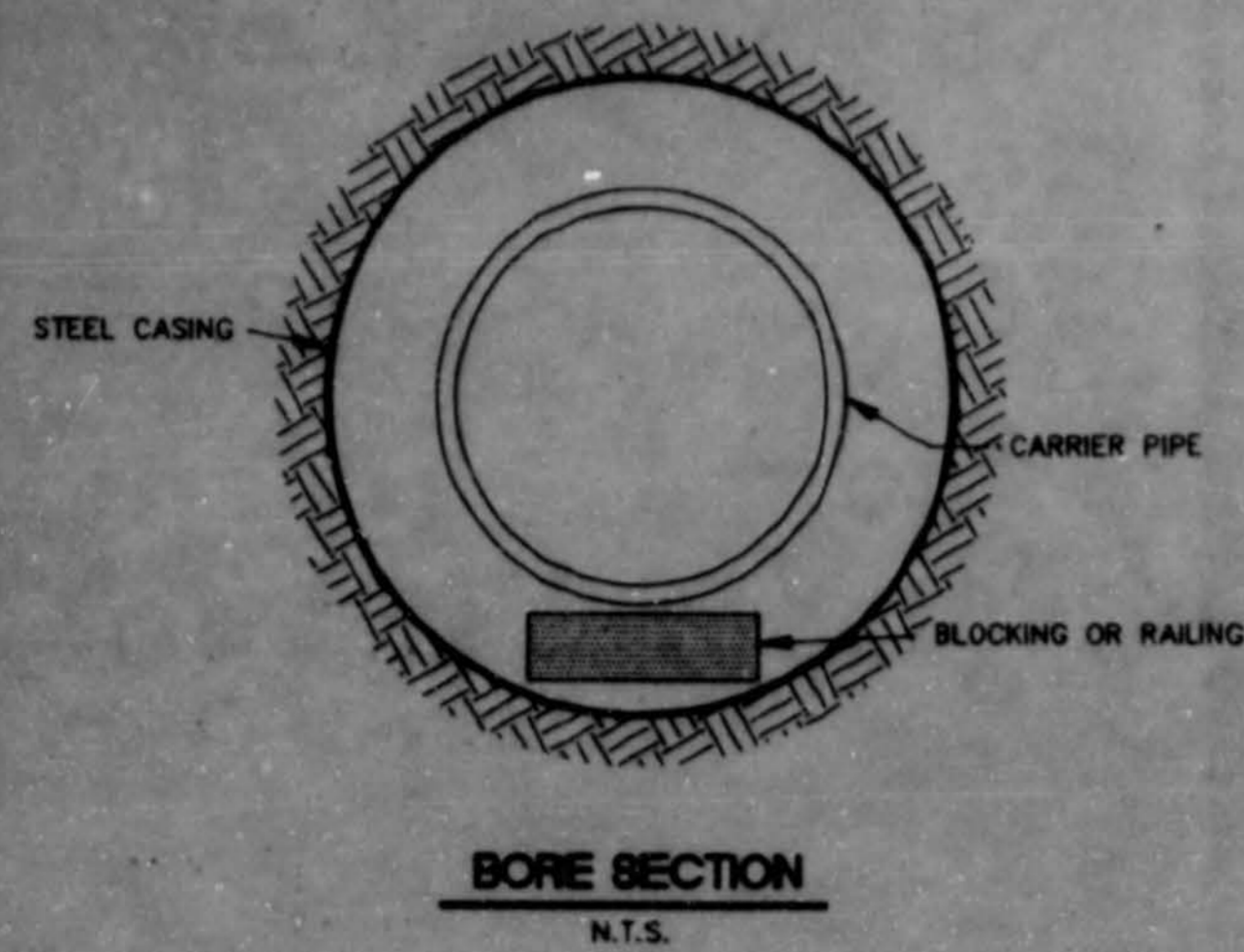
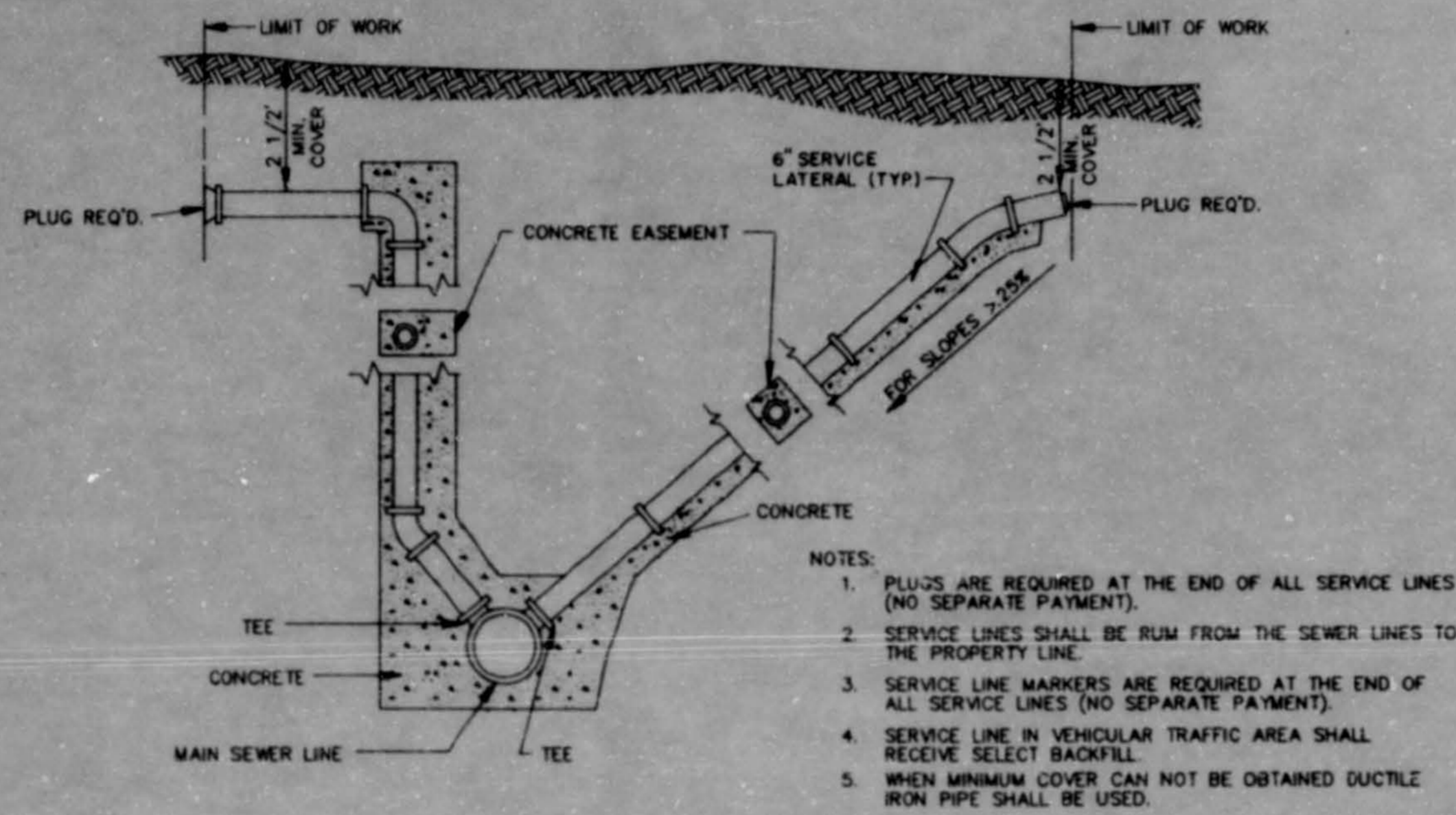


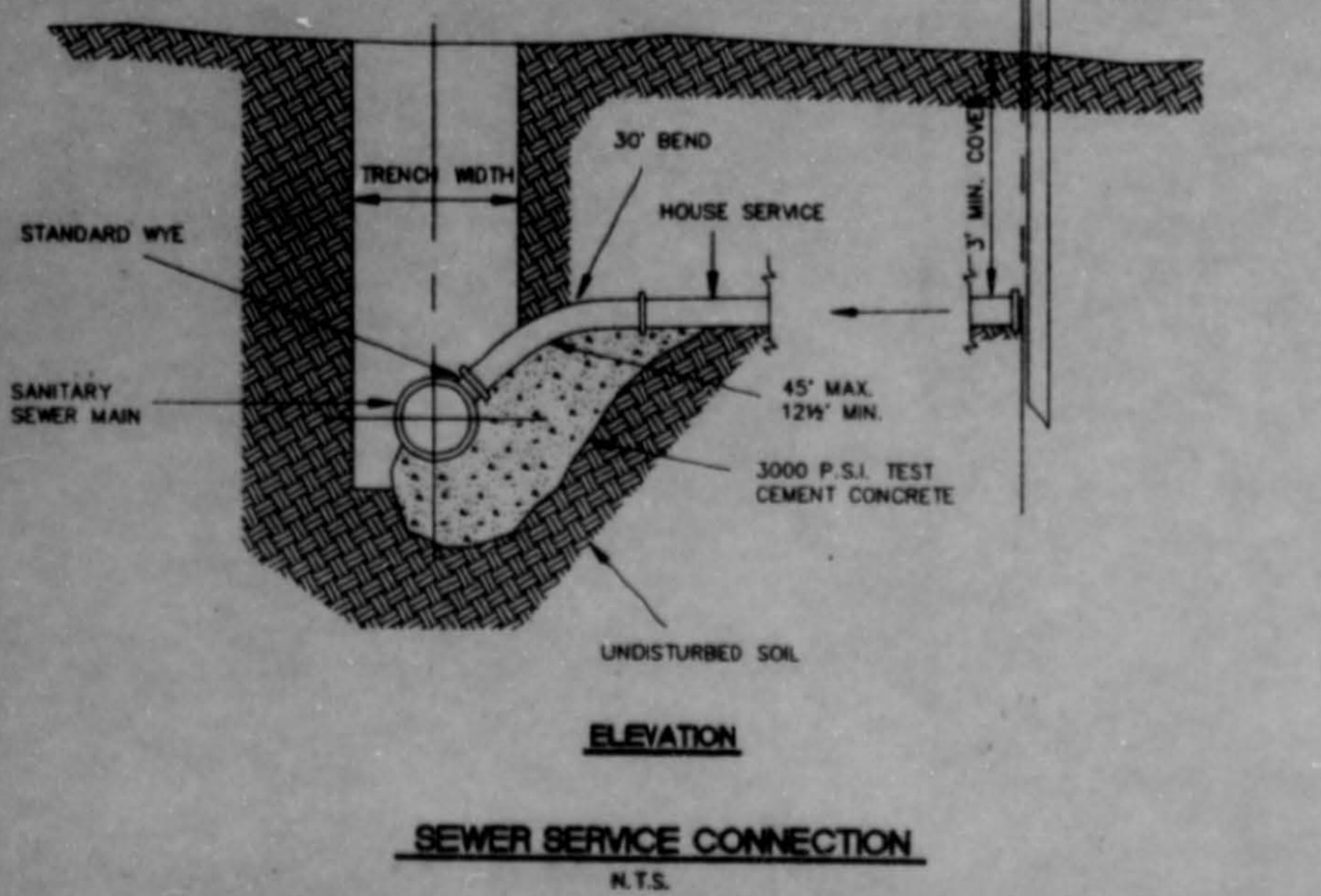
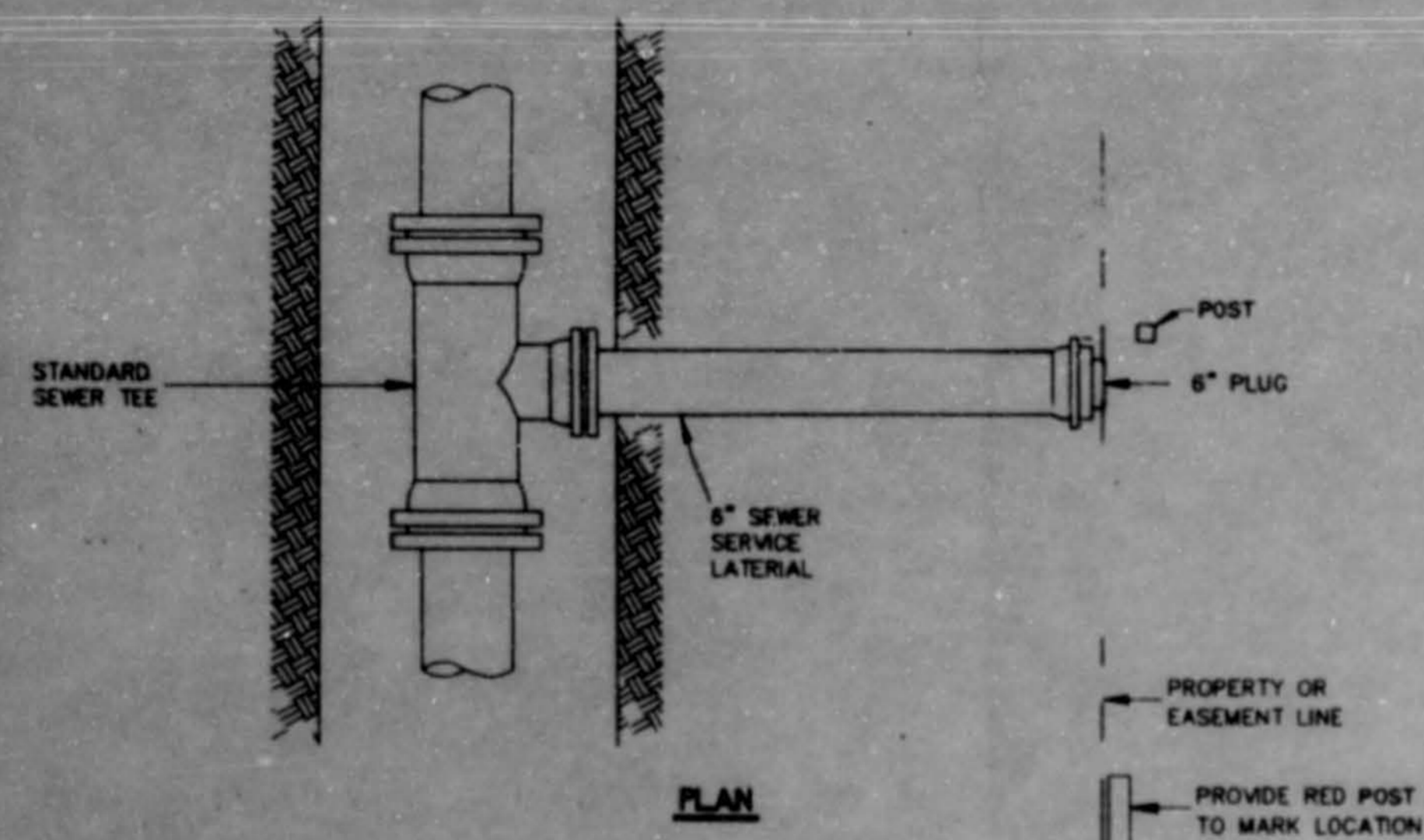
TABLE II
GOVERNING DIMENSIONS FOR MANHOLES

PIPE SIZE	ANGLE	BASE DIAMETER **	RT *
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"

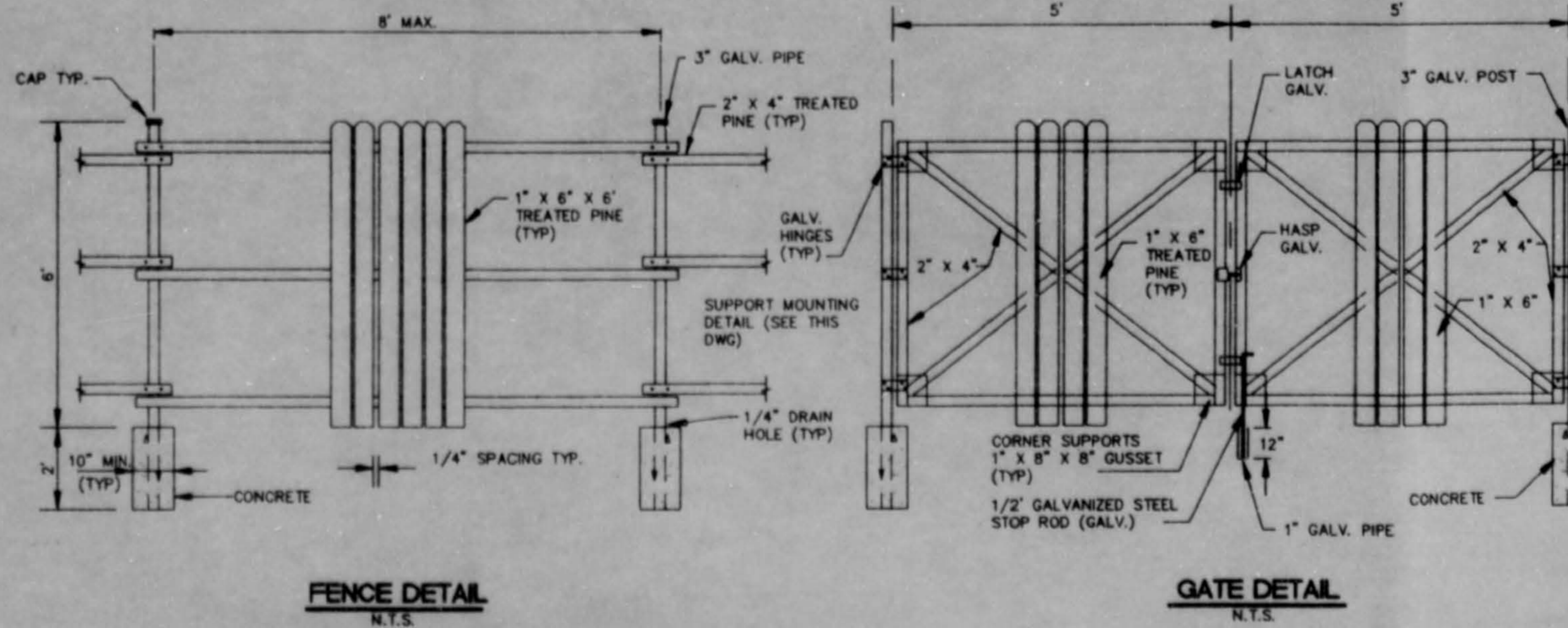
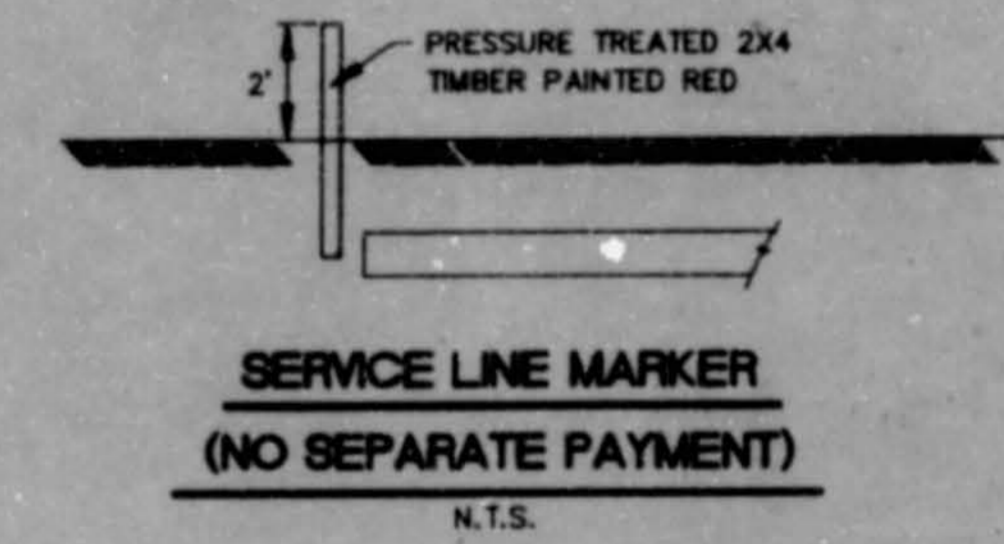
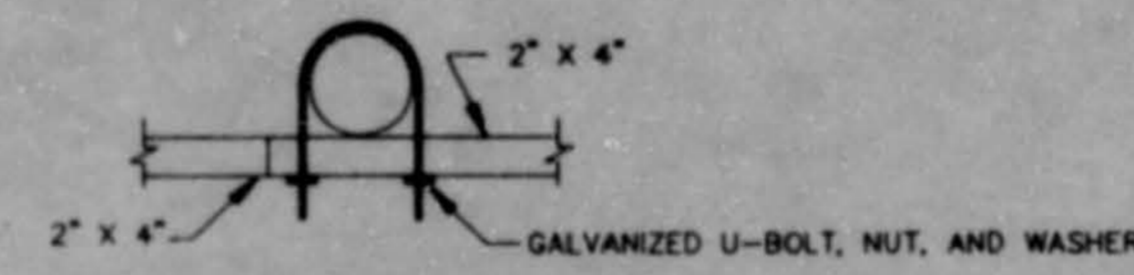
* SEE SECTIONAL PLAN, STANDARD MANHOLE
** PRECAST MANHOLE



- 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 USED.



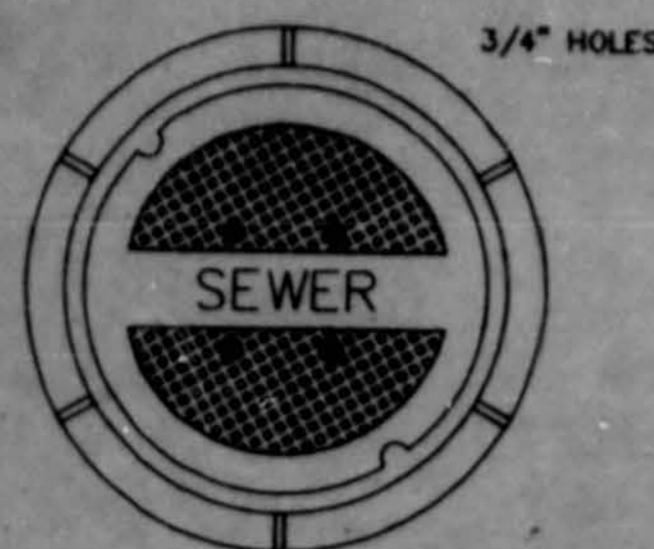
SEWER SERVICE CONNECTION
N.T.S.



CITY OF RIDGELAND, MS.
STANDARD DETAILS

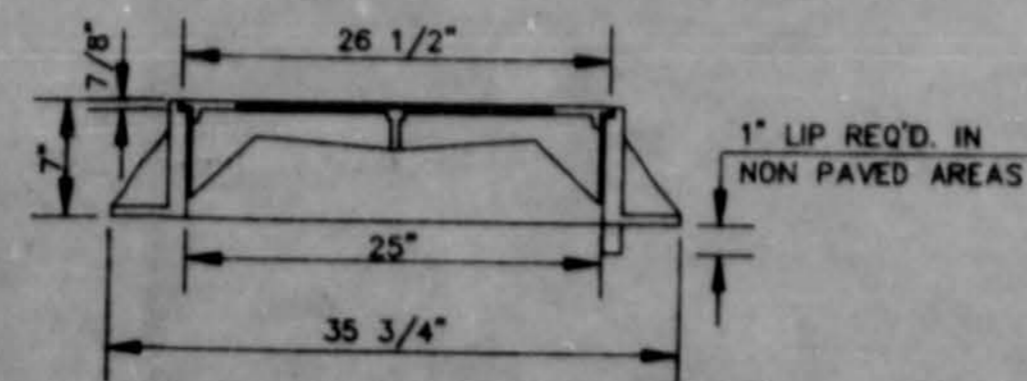
DESIGN	THE CITY OF RIDGELAND	DRAWING NO.
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CHECKED		
SCALE		

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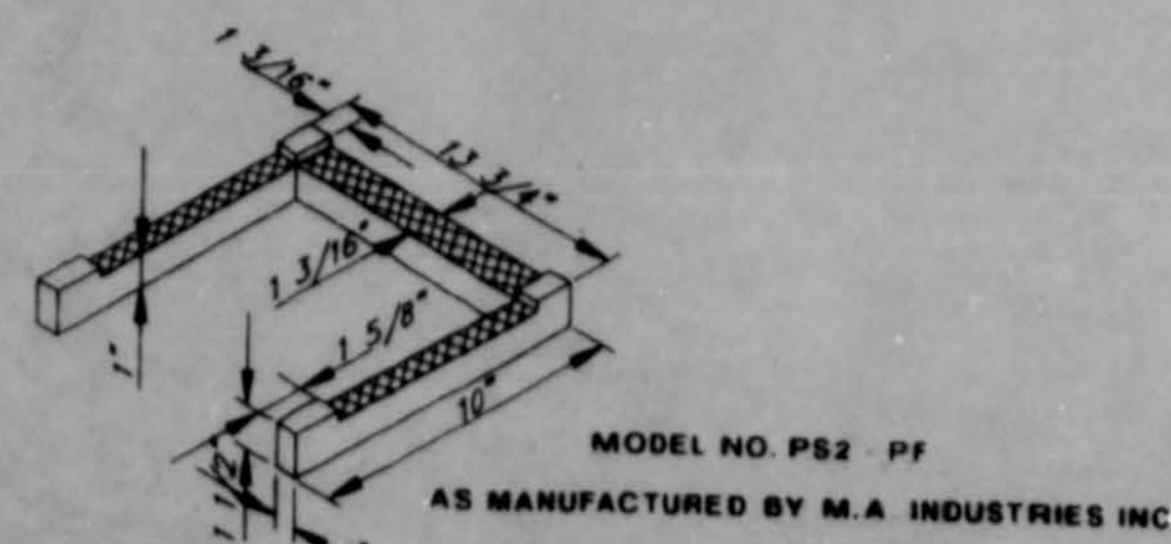


TOP PLAN OF COVER

FRAME & COVER WEIGHT 420 LBS.



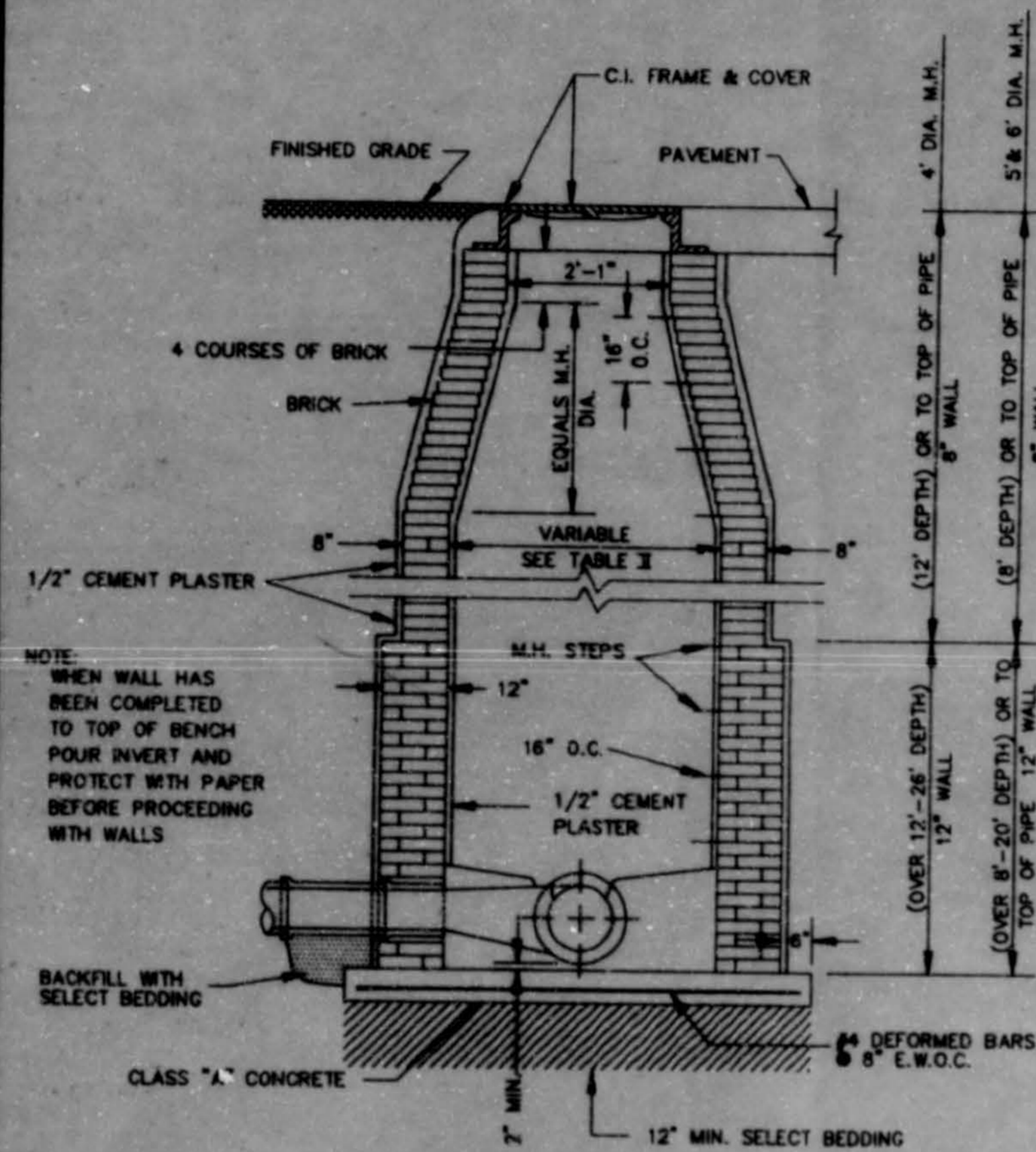
SECTION



DETAIL 'B'

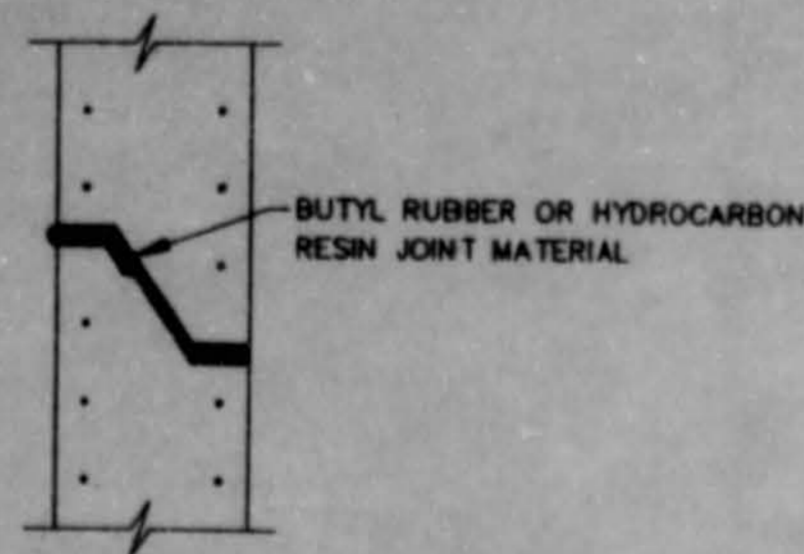
STANDARD MANHOLE FRAME AND COVER

N.T.S.



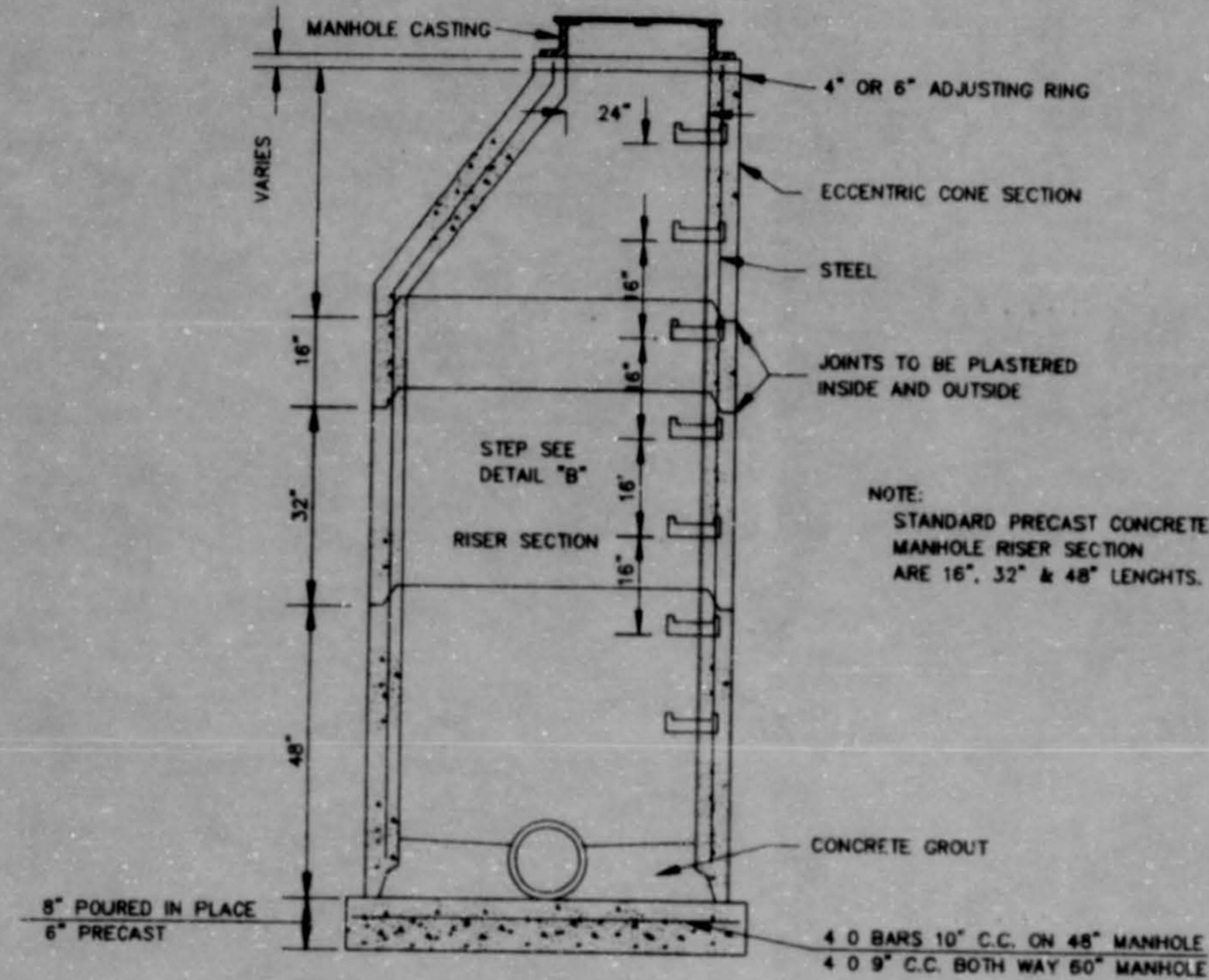
STANDARD BRICK MANHOLE

N.T.S.



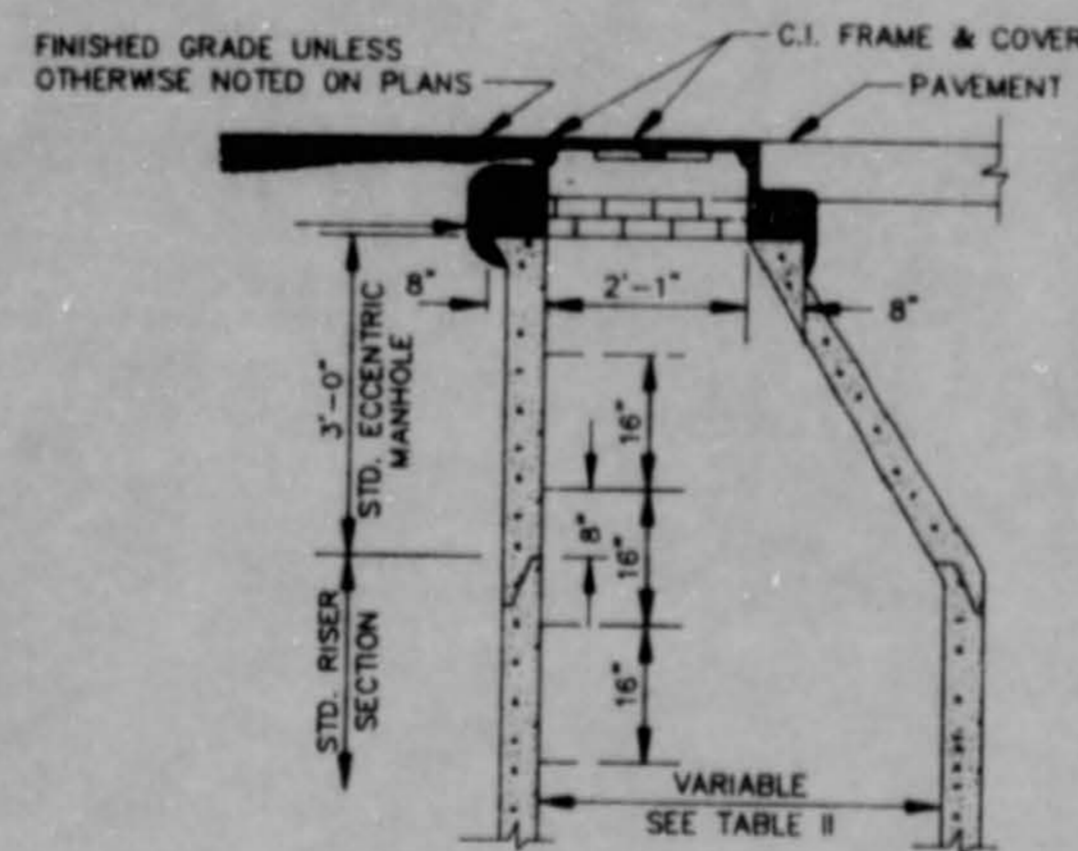
TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL

N.T.S.



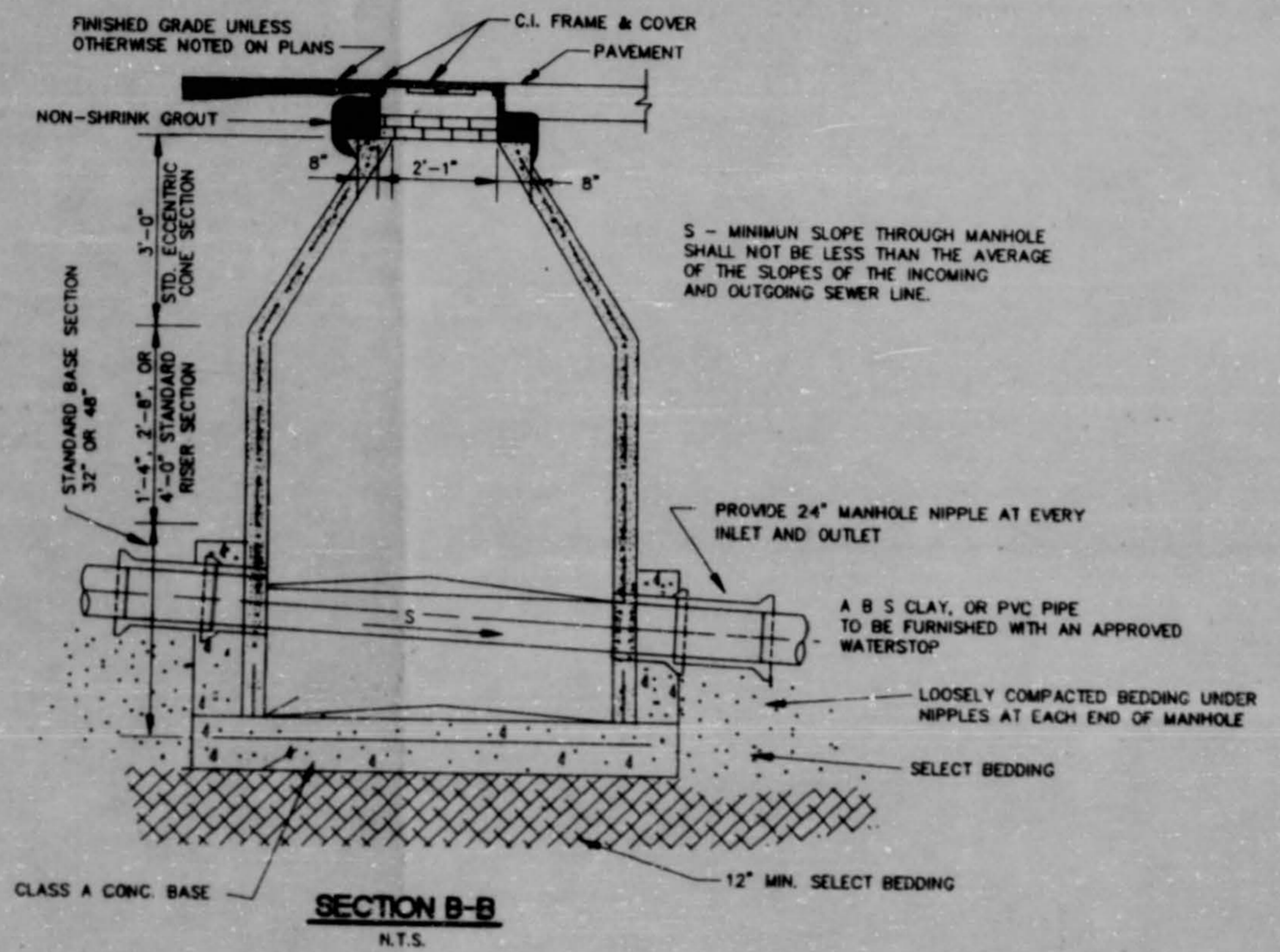
SECTION OF PRECAST CONCRETE MANHOLE

N.T.S.



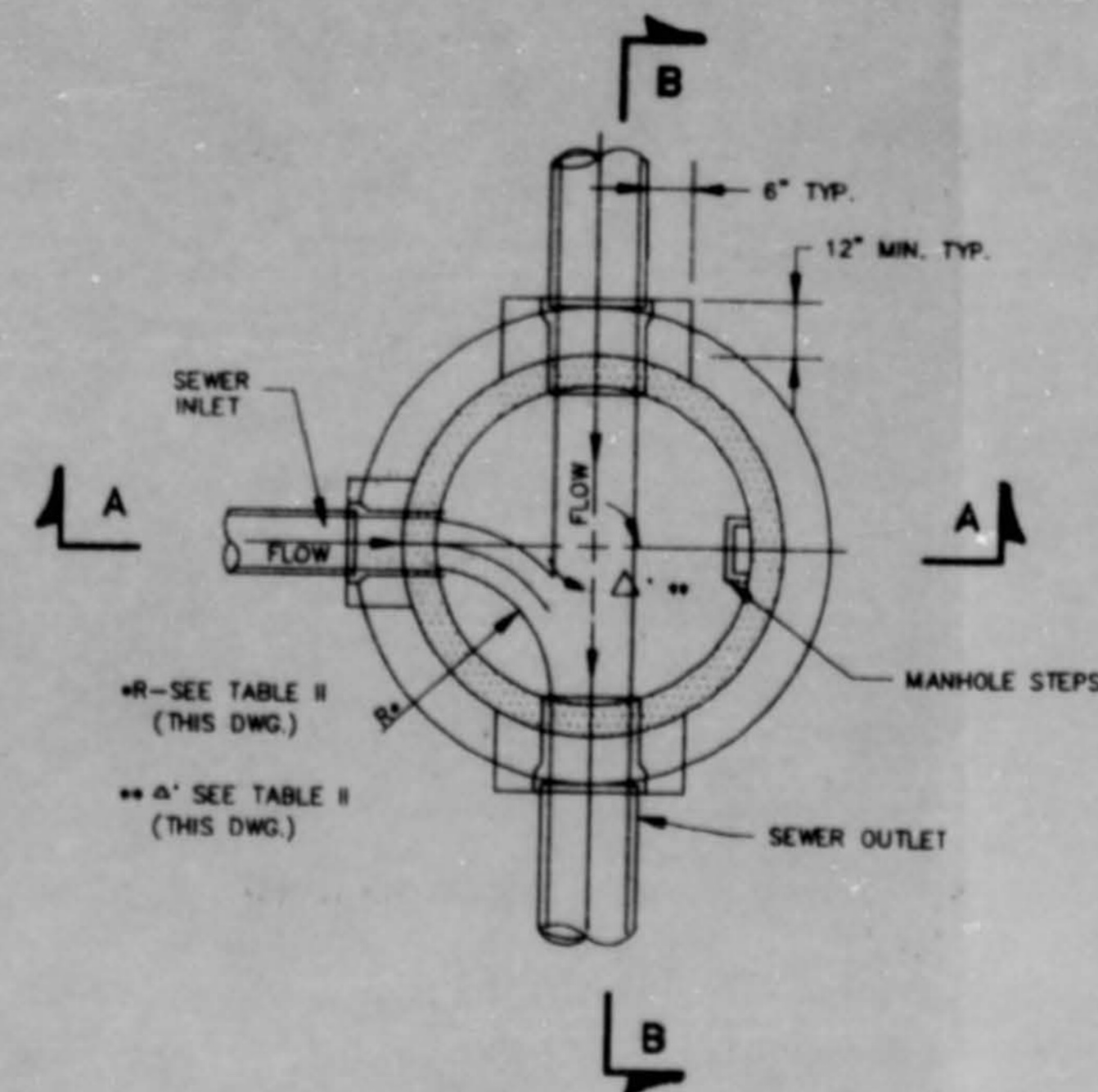
STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES

N.T.S.



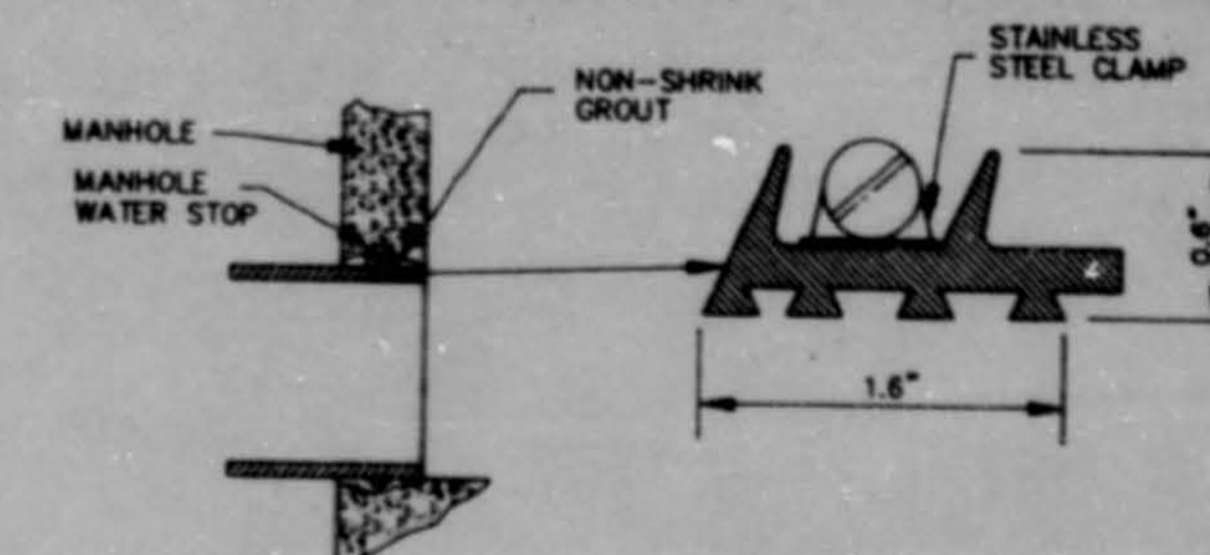
SECTION B-B

N.T.S.



SECTIONAL PLAN STANDARD MANHOLE

N.T.S.



TYPICAL MANHOLE WATER STOP FOR ABS, CLAY OR PVC PIPE

EXISTING AND "STRADDLE" MANHOLES N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

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