CONSTRUCTION PLANS

FOR

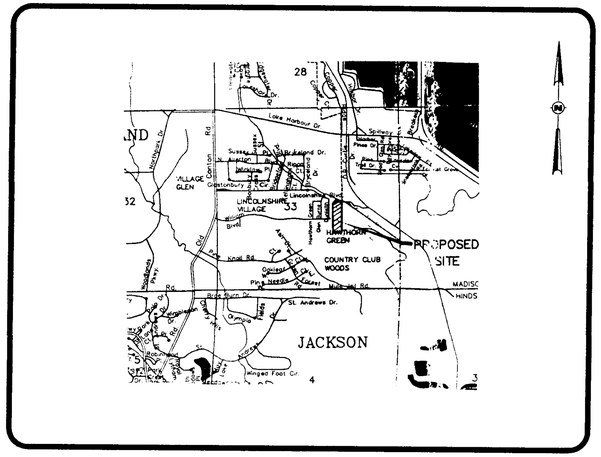
HAWTHORN GREEN SUBDIVISION, PART 3-B

Of
P
Pu rector
Bui cial
Tra neer
Dra ngineer
Fire cial
Site plans will not go forward to the Architectural Review B or the Mayor and Board of Aldermen prior to the above review.

RECEIVED
JUL 21 1998
PUBLIC WORKS DEPT.

OFFICE COPY
PLANS REVIEW
Public Works Director
Building Official (comments)
Traffic Engineer 7-7-98
Drainage Engineer 8/4/98
Fire Official 7-31-98
Site plans will not go forward to the Architectural Review Board or the Mayor and Board of Aldermen prior to

1.) check elev. on curb inlet # 1 on sheet 6.
2.) Show a drainage easement for the over ea. pipe (15')



DRAWING INDEX

1 – COVER SHEET
2 – GEOMETRIC LAYOUT
3 – DRAINAGE AND GRADING LAYOUT
4 – WATER AND SEWER LAYOUT
5 – EROSION, SEDIMENT AND STORMWATER CONTROL PLAN
6 – PLAN AND PROFILE – ARLINGTON / LINCOLNSHIRE BOULEVARD
7 – PLAN AND PROFILE – WILLIAM BOULEVARD / SPRINGFIELD COURT / DRAIN LINE "A"
8 – STANDARD DETAILS
9 – STANDARD DETAILS
10 – STANDARD DETAILS
11 – STANDARD DETAILS
12 – STANDARD DETAILS

PWP 839

DRAWING NO. HG3-CVR

H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236
601-362-4886

CLIENT
BERT GREEN, BUILDER, INC.
6712 OLD CANTON ROAD
RIDGELAND, MISSISSIPPI, 39157
(601) 957-0190

LOCATION
SITUATED IN THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33 TOWNSHIP 7 NORTH - RANGE 2 EAST, CITY OF RIDGELAND, MADISON COUNTY, MISISSIPPI

DATE	REVISION	BY

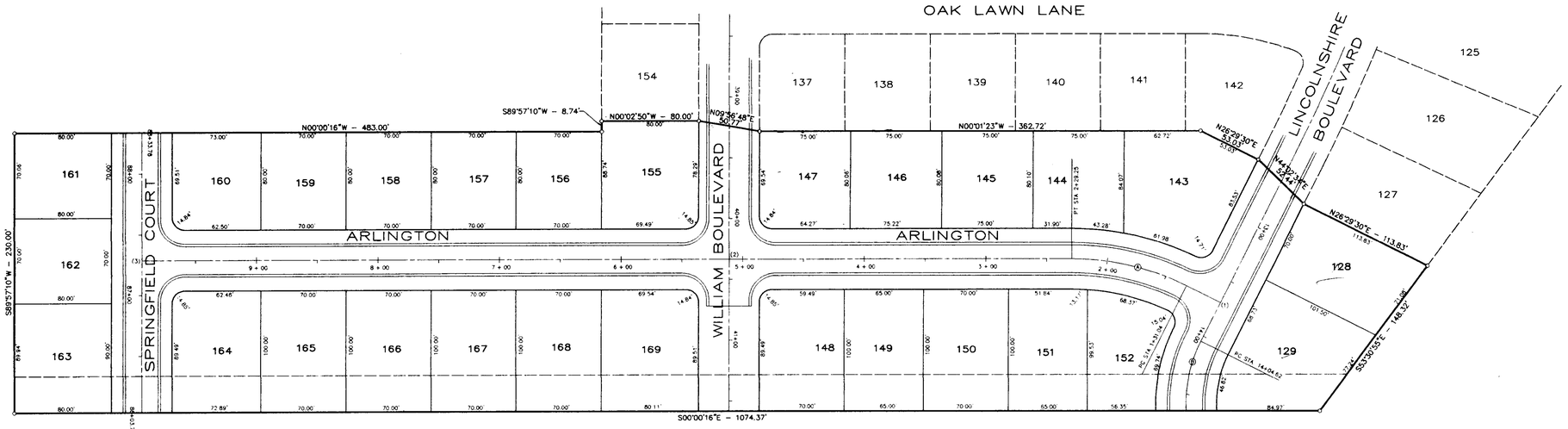
DRAWN BY: D.L.M.
DATE: 7-23-98
SCALE:
BOOK: PAGE:
PROJECT NO.: 98-064

SHEET 1

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.



CENTERLINE CURVE DATA

Ⓐ Δ = 26°29'46" D = 26.97561 R = 212.37 T = 50.00 L = 98.21

Ⓑ Δ = 29°06'53" D = 49.42000' R = 115.94' T = 30.11' L = 58.91'

CENTERLINE INTERSECTIONS

(1) STA. 13+69.06 LINCOLNSHIRE BLVD. = STA. 1+00.00 ARLINGTON

(2) STA. 5+11.11 ARLINGTON = STA. 40+33.37 WILLIAM BLVD.

(3) STA. 9+94.13 ARLINGTON = STA. 87+28.78 SPRINGFIELD COURT

NOTES:
1. AREA = 5.792 ACRES MORE OR LESS
2. DISTRICTS ALONG CURVES ARE CHORD DISTANCES.

DRAWING NO. HG3-GEO.DWG

H D LANG AND ASSOCIATES, INC.

~~POST OFFICE~~ BOX 16085 JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT

HAWTHORN GREEN SUBDIVISION, PART 3-B

DESCRIPTION

GEOMETRIC LAYOUT

DATE	REVISION	BY

DRAWN BY: D.L.M.
DATE: 7-23-98
SCALE: 1" = 50'
BOOK: PAGE:
PROJECT NO.: 98-064

SHEET

2

CENTERLINE CURVE DATA

Ⓐ Δ = 25°29'46" D = 26.97861 R = 212.33' T = 50.00' L = 96.21'

Ⓑ Δ = 29°06.53" D = 49.42000' R = 115.84' T = 30.11' L = 58.91'

CENTERLINE INTERSECTIONS

(1) STA. 13+89.06 LINCOLNSHIRE BLVD. = STA. 1+00.00 ARLINGTON

(2) STA. 5+11.11 ARLINGTON = STA. 40+33.37 WILLIAM BLVD.

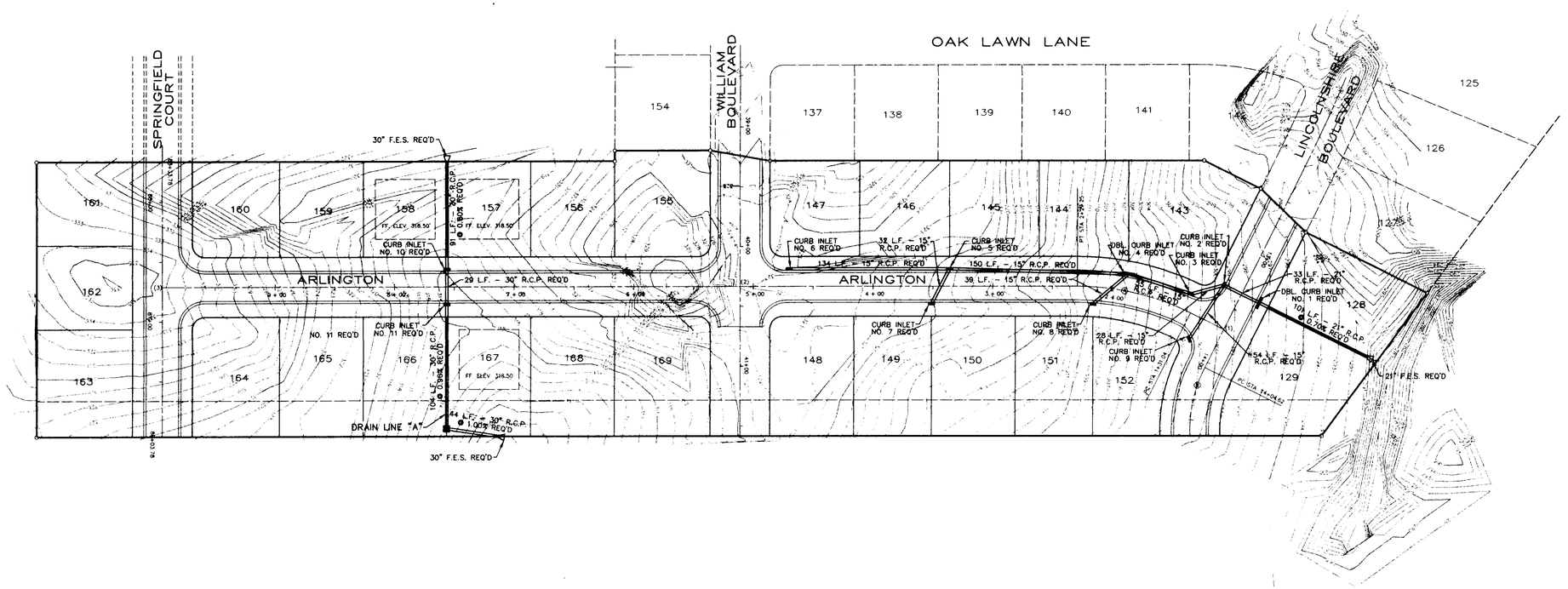
(3) STA. 9+84.11 ARLINGTON = STA. 57+28.78 SPRINGFIELD COURT

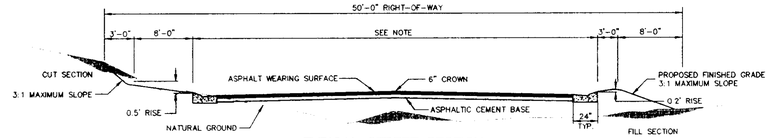
GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.





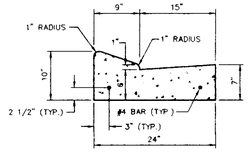
TYPICAL STREET SECTION

ALTERNATE NO. 1: 1 1/2" WEARING SURFACE WITH 5" ASPHALTIC CEMENT BASE

ALTERNATE NO. 2: 1 1/2" WEARING SURFACE WITH 5" ASPHALTIC CEMENT BASE & 6" SOIL TREATMENT (LIME)

* FINAL PAVEMENT DESIGN AND OR SOIL TREATMENT TO BE DETERMINED BY CURRENT GEOTECHNICAL INVESTIGATION.

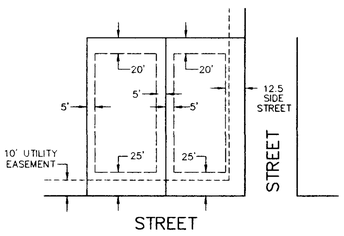
NOTE:
ARLINGTON 27' - 0" BACK OF CURB TO BACK OF CURB
LINCOLNSHIRE BOULEVARD 31' - 0" BACK OF CURB TO BACK OF CURB
WILLIAM BOULEVARD 37' - 0" BACK OF CURB TO BACK OF CURB
SPRINGFIELD COURT 31' - 0" BACK OF CURB TO BACK OF CURB



CURB & GUTTER DETAIL

NOTES:

1. 1/2" EXPANSION JOINT REQUIRED AT 30' INTERVALS, WITH (2) 3/4" DOWEL BARS, 15" LONG REQUIRED AT ALL EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS, AND 1/2" EXPANSION MATERIALS.
2. 1/4" CONTRACTION JOINT REQUIRED AT 10' INTERVALS.
3. ALL CURB & GUTTER AND DRIVEWAYS TO BE CONSTRUCTED OF 1:2:4 MIX CONCRETE.



TYPICAL BUILDING SETBACK

DRAWING NO. HG1-DG.DWG

H D LANG AND ASSOCIATES, INC.

POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT: HAWTHORN GREEN SUBDIVISION, PART 3-B

DESCRIPTION: DRAINAGE & GRADING LAYOUT

DATE	REVISION	BY

DRAWN BY: L.L.M.
DATE: 7-23-98
SCALE: 1"=50'
BOOK: PAGE:
PROJECT NO.: 98-064

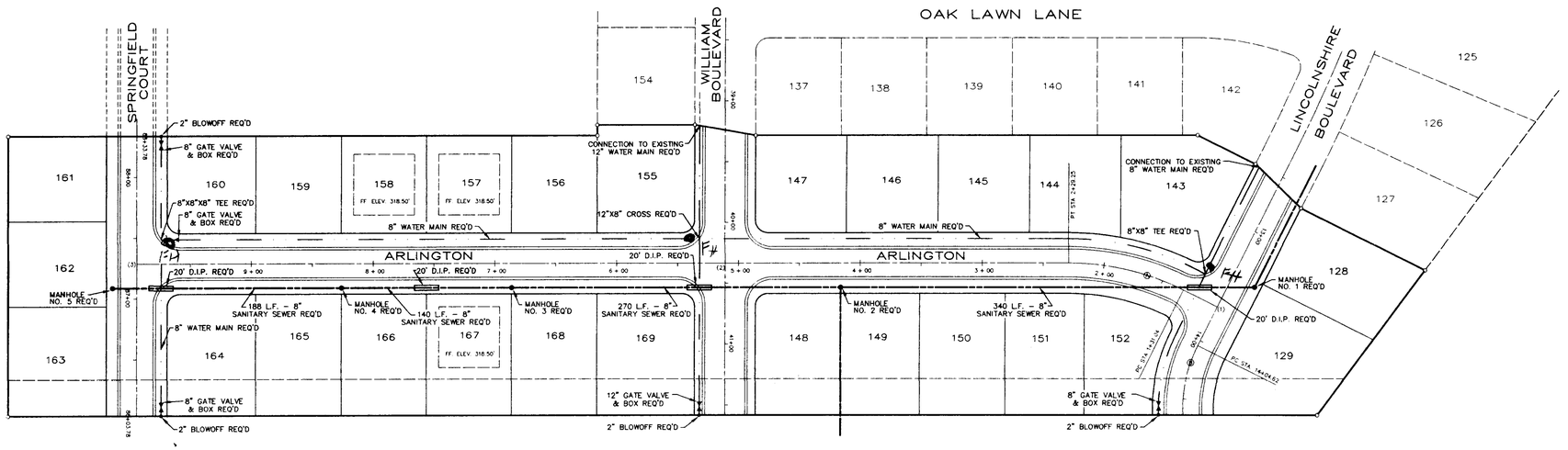
SHEET 3

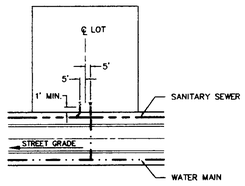
GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.





TYPICAL SERVICE CONNECTIONS

NOTE:
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 6" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER.

CENTERLINE CURVE DATA

Ⓐ Δ = 26°29'46" D = 26.97861° R = 212.37' T = 50.00' L = 98.21'

Ⓑ Δ = 29°06'53" D = 49.42000° R = 115.94' T = 30.11' L = 58.91'

CENTERLINE INTERSECTIONS

(1) STA. 13+89.06 LINCOLNSHIRE BLVD. = STA. 1+00.00 ARLINGTON

(2) STA. 5+11.11 ARLINGTON = STA. 40+33.37 WILLIAM BLVD.

(3) STA. 9+94.11 ARLINGTON = STA. 87+28.78 SPRINGFIELD COURT

DRAWING NO. HG3-WS.DWG

H D LANG AND ASSOCIATES, INC.

POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT

HAWTHORN GREEN SUBDIVISION, PART 3-B

DESCRIPTION

WATER AND SEWER LAYOUT

DATE	REVISION	BY

DRAWN BY: L.L.M.

DATE: 7-23-98

SCALE: 1"=50'

BOOK: PAGE:

PROJECT NO.:

SHEET

4

SYMBOLS FOR EROSION AND SEDIMENT CONTROL PRACTICES

TEMPORARY PRACTICES

- CHECK DAM
- CONSTRUCTION ENTRANCE / EXIT
- D — DIVERSION
- DC — DUST CONTROL
- SEDIMENT BASIN
- SILT FENCE
- STORM DRAIN INLET PROTECTION (SILT FENCE, STRAW BALE)
- STRAW BALE BARRIER

PERMANENT PRACTICES

- BZ — BUFFER ZONE
- DETENTION BASIN
- D — DIVERSION
- GRADE STAB. STRUCTURE
- GW — GRASSED WATERWAY
- LAND GRADING
- LEVEL GRADING
- LW — LINED WATERWAY OR OUTLET
- PARKING LOT STORAGE
- PAVED FLUME
- ROCK OUTLET PROTECTION
- R — STORMWATER RETENTION BASIN

VEGETATIVE PRACTICES

- M — MULCHING
- PS — PERMANENT SEEDING
- S — SODDING
- TS — TEMPORARY SEEDING
- PILE — TOPSOILING
- TREE PRESERVATION AND PROTECTION
- GC — TREES, SHRUBS, VINES AND GROUND COVER
- DS — VEGETATIVE DUNE STABILIZATION

COMPOSITE PRACTICES

- VEGETATIVE STREAMBANK STAB.
- STRUCTURAL STREAMBANK STAB.
- RR — RIPRAP

PLANNED EROSION, SEDIMENT AND STORMWATER CONTROL PRACTICES

1. **STORM DRAIN INLET PROTECTION.**

   TEMPORARY HAY BALE AND SILT FENCE COMBINATIONS WILL BE INSTALLED AT ALL CURB INLET AND GRATE INLET LOCATIONS.

2. **LAND GRADING**

   EXCESS EXCAVATION FROM THE STREET RIGHTS OF WAY WILL BE PLACED ON THE LOTS OF LOWEST ELEVATION. ALL FILL MATERIALS WILL BE COMPACTED AND SLOPES WILL NOT EXCEED 3:1. ALL AREAS WILL RECEIVE SEEDING FOR STABILIZATION OF THE FILL MATERIAL UNTIL PERMANENT VEGETATION IS ESTABLISHED AFTER THE CONSTRUCTION OF THE INDIVIDUAL HOUSES.

3. **ROCK OUTLET PROTECTION**

   A RIPRAP APRON WILL BE LOCATED AT THE OUTLET OF ALL CULVERTS TO PREVENT SCOUR.

4. **PERMENENT SEEDING**

   ALL DISTURBED AREAS WILL BE PERMANENTLY SEEDED AND MULCHED ONCE FINAL GRADE IS ESTABLISHED. THE LAND GRADING AREAS PREVIOUSLY MENTIONED WILL RECEIVE TEMPORARY SEEDING AS STATED.

MAINTENANCE PLAN

SHORT TERM

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM THE INLET PROTECTION DEVICES WHEN IT REACHES A MAXIMUM OF 6 INCHES DEEP. THE DEVICE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
3. ALL SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.

LONG TERM

1. ALL VEGETATED AREAS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE PROPER GROUND COVER.
2. AREAS WHERE VEGETATION IS LOST WILL BE FERTILIZED, SEEDED AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
3. STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.

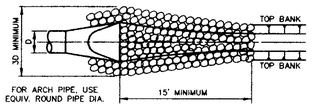
TEMPORARY SEEDING

ALL FILL AREAS OUTSIDE OF PAVED AREAS SHALL RECEIVE TEMPORARY SEEDING OF ANNUAL RYEGRASS AT 40 LBS./AC/ WITH 13/13/13 FERTILIZER AT 600 LBS./AC.

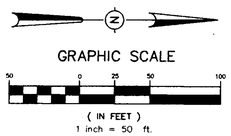
ALL SLOPES SHALL RECEIVE TEMPORARY SEEDING AND FERTILIZER AND STRAW MULCH WITH ASPHALT TACK AT 1.5 TONS MULCH/AC. AND 100 GAL EMULSIFIED ASPHALT, GRADE SS-1 AT 100 GAL./TON MULCH.

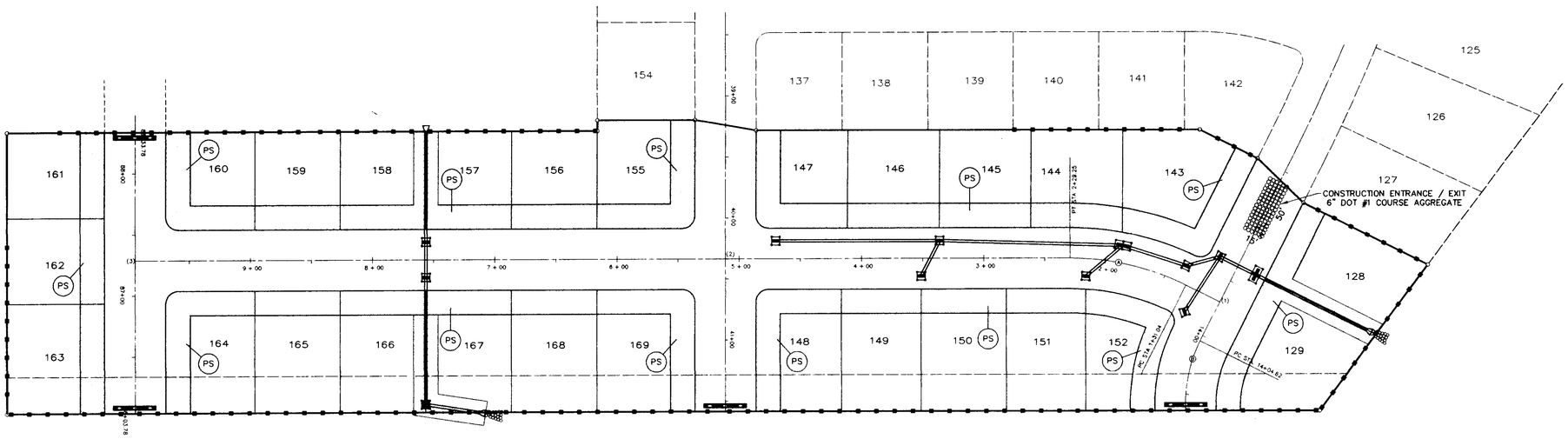
PERMANENT SEEDING

PERMANENT SEEDING OF BERMUDA GRASS AT 15 LBS/AC. WITH 13/13/13 FERTILIZER AT 600 LBS./AC.



ROCK OUTLET PROTECTION





DRAWING NO. HG3-EC.DWG

H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236
601-362-4886

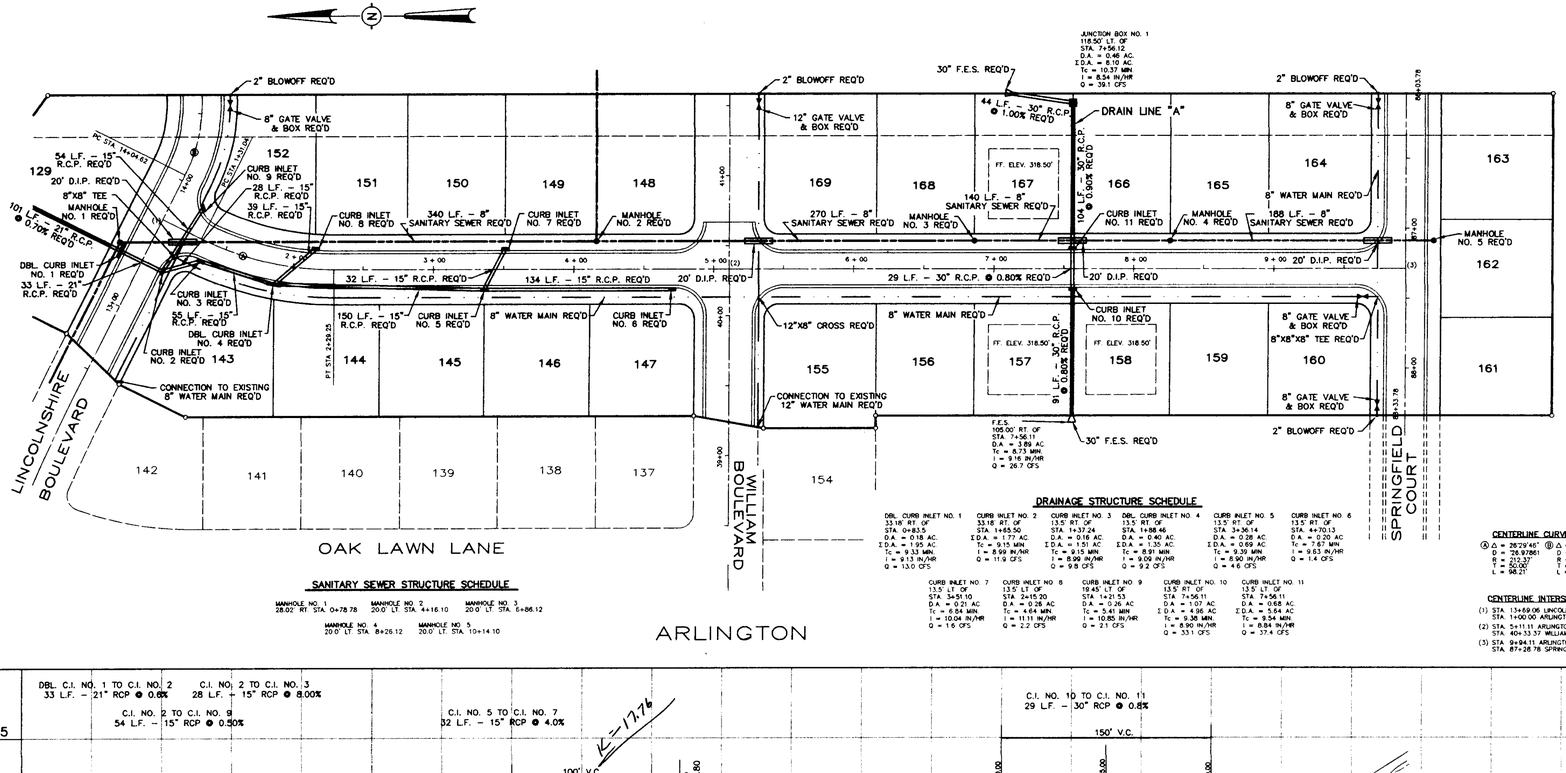
PROJECT: HAWTHORN GREEN SUBDIVISION, PART 3-B

DESCRIPTION: EROSION CONTROL

DATE	REVISION	BY

DRAWN BY: L.L.M.
DATE: 7-23-98
SCALE: 1"=50'
BOOK: PAGE:
PROJECT NO.:

SHEET 5



SANITARY SEWER STRUCTURE SCHEDULE

MANHOLE NO. 1 — 28.02' RT. STA. 0+78.78
MANHOLE NO. 2 — 20.0' LT. STA. 4+16.10
MANHOLE NO. 3 — 20.0' LT. STA. 6+86.12
MANHOLE NO. 4 — 20.0' LT. STA. 8+26.12
MANHOLE NO. 5 — 20.0' LT. STA. 10+14.10

DRAINAGE STRUCTURE SCHEDULE

DBL. CURB INLET NO. 1	CURB INLET NO. 2	CURB INLET NO. 3	DBL. CURB INLET NO. 4	CURB INLET NO. 5	CURB INLET NO. 6
33.18' RT. OF STA. 0+83.5	33.18' RT. OF STA. 1+65.50	13.5' RT. OF STA. 1+37.24	13.5' RT. OF STA. 1+88.46	13.5' RT. OF STA. 3+36.14	13.5' RT. OF STA. 4+70.13
D.A. = 0.18 AC.	D.A. = 1.77 AC.	D.A. = 0.16 AC.	D.A. = 0.40 AC.	D.A. = 0.28 AC.	D.A. = 0.20 AC.
Σ D.A. = 1.95 AC.	Σ D.A. = 1.95 AC.	Σ D.A. = 1.51 AC.	Σ D.A. = 1.35 AC.	Σ D.A. = 0.69 AC.	Σ D.A. = 0.49 AC.
Tc = 9.33 MIN.	Tc = 9.15 MIN.	Tc = 9.15 MIN.	Tc = 8.91 MIN.	Tc = 9.39 MIN.	Tc = 7.87 MIN.
I = 9.13 IN/HR	I = 8.99 IN/HR	I = 8.99 IN/HR	I = 9.09 IN/HR	I = 8.90 IN/HR	I = 9.63 IN/HR
Q = 13.0 CFS	Q = 11.9 CFS	Q = 9.8 CFS	Q = 9.2 CFS	Q = 4.6 CFS	Q = 1.4 CFS

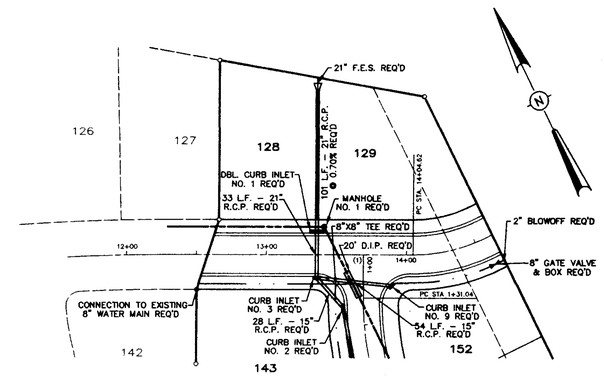
CURB INLET NO. 7	CURB INLET NO. 8	CURB INLET NO. 9	CURB INLET NO. 10	CURB INLET NO. 11
13.5' LT. OF STA. 3+51.10	13.5' LT. OF STA. 2+15.20	18.45' LT. OF STA. 1+21.53	13.5' RT. OF STA. 7+56.11	13.5' LT. OF STA. 7+56.11
D.A. = 0.21 AC.	D.A. = 0.26 AC.	D.A. = 0.26 AC.	D.A. = 1.07 AC.	D.A. = 0.64 AC.
Tc = 8.84 MIN.	Tc = 8.44 MIN.	Tc = 8.84 MIN.	Σ D.A. = 4.98 AC.	Σ D.A. = 9.34 MIN.
I = 10.04 IN/HR	I = 11.11 IN/HR	I = 10.85 IN/HR	Tc = 9.38 MIN.	I = 8.84 IN/HR
Q = 1.6 CFS	Q = 2.2 CFS	Q = 2.1 CFS	I = 8.90 IN/HR	Q = 37.4 CFS
			Q = 33.1 CFS	

CENTERLINE CURVE DATA

Ⓐ Δ = 26°29'46" D = 26.97861 R = 213.37 T = 50.04 L = 98.21
Ⓑ Δ = 29°06'53" D = 19.42000' R = 115.94 T = 30.11 L = 58.91

CENTERLINE INTERSECTIONS

(1) STA. 1+69.06 LINCOLNSHIRE BLVD. = STA. 14+00.00 ARLINGTON
(2) STA. 5+11.11 ARLINGTON = STA. 40+33.37 WILLIAM BLVD.
(3) STA. 9+94.11 ARLINGTON = STA. 87+28.78 SPRINGFIELD COURT



CENTERLINE CURVE DATA

Ⓐ Δ = 26°29'46" D = 26.97861 R = 213.37 T = 50.04 L = 98.21
Ⓑ Δ = 29°06'53" D = 19.42000' R = 115.94 T = 30.11 L = 58.91

CENTERLINE INTERSECTIONS

(1) STA. 13+69.06 LINCOLNSHIRE BLVD. = STA. 1+00.00 ARLINGTON

SANITARY SEWER STRUCTURE SCHEDULE

MANHOLE NO. 1 — 28.02' RT. STA. 0+78.78

DRAINAGE STRUCTURE SCHEDULE

DBL. CURB INLET NO. 1	CURB INLET NO. 2	CURB INLET NO. 9
15.5' LT. OF STA. 13+35.89	15.5' RT. OF STA. 13+35.89	21.53' RT. OF STA. 13+80.51
D.A. = 0.18 AC.	D.A. = 1.77 AC.	D.A. = 0.26 AC.
Σ D.A. = 1.95 AC.	Σ D.A. = 1.95 AC.	Tc = 5.41 MIN.
Tc = 9.33 MIN.	Tc = 9.15 MIN.	I = 10.85 IN/HR
I = 9.13 IN/HR	I = 8.99 IN/HR	Q = 2.1 CFS
Q = 13.0 CFS	Q = 11.9 CFS	

EXISTING GROUND – CENTERLINE
EXISTING GROUND – 25' LEFT
EXISTING GROUND – 25' RIGHT

NOTE: CURB RETURN RADII – R=20.0' (BACK OF CURB)

NOTE: 3' MINIMUM COVER REQUIRED OVER PROPOSED SANITARY SEWER AND WATER MAINS

NOTE:
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 6" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER. (SEE "TYPICAL SERVICE CONNECTIONS" DETAIL – SHEET NO. 4)

DBL. C.I. NO. 1 TO C.I. NO. 2
33 L.F. – 21" RCP @ 0.6%

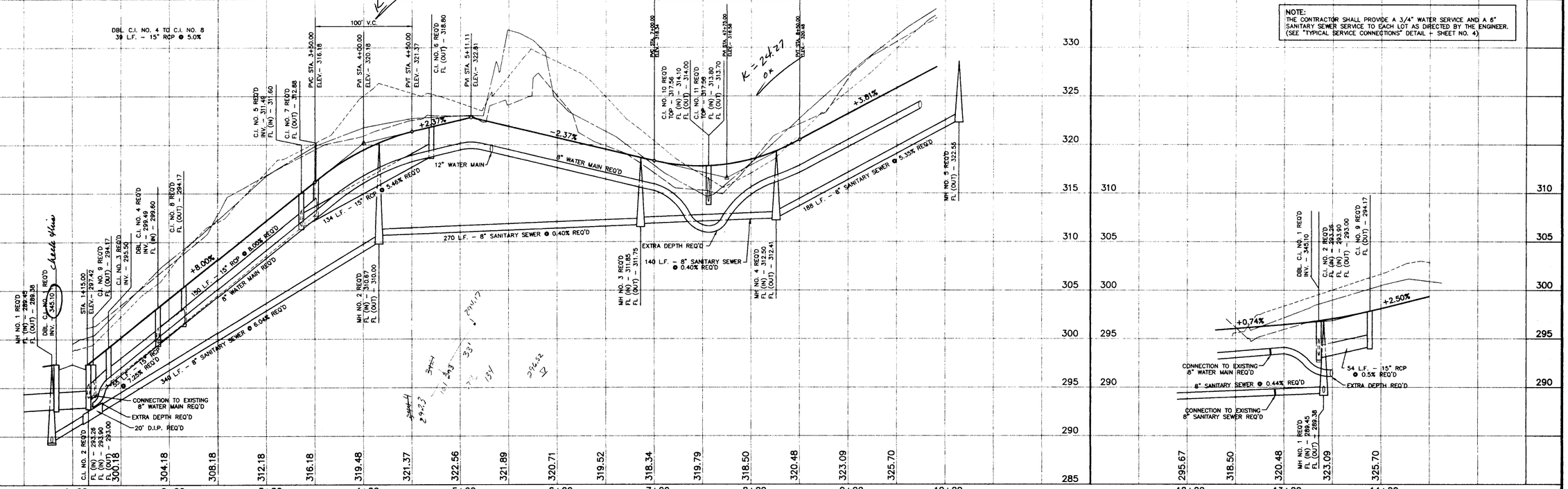
C.I. NO. 2 TO C.I. NO. 3
28 L.F. – 15" RCP @ 8.00%

C.I. NO. 2 TO C.I. NO. 9
54 L.F. – 15" RCP @ 0.50%

C.I. NO. 5 TO C.I. NO. 7
32 L.F. – 15" RCP @ 4.0%

DBL. C.I. NO. 4 TO C.I. NO. 8
39 L.F. – 15" RCP @ 5.0%

C.I. NO. 10 TO C.I. NO. 11
29 L.F. – 30" RCP @ 0.8%



DRAWING NO.

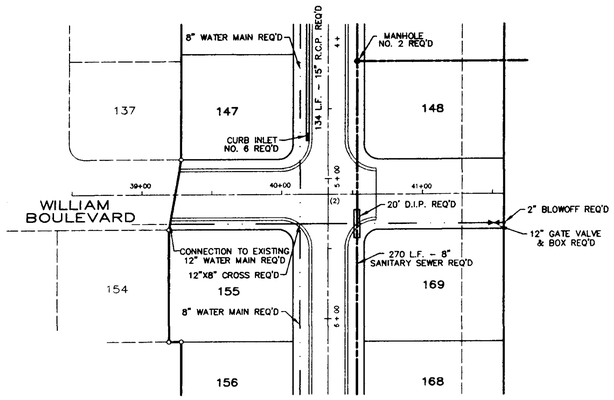
H D LANG AND ASSOCIATES, INC. POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236 601-362-4886	PROJECT HAWTHORN GREEN SUBDIVISION, PART 3-B	DESCRIPTION PLAN AND PROFILE ARLINGTON AND LINCOLNSHIRE BLVD.

DATE	REVISION	BY

DRAWN BY: L.L.M.
DATE: 7-23-98
SCALE: 1" = 50'
BOOK: PAGE:
PROJECT NO.: 98-064

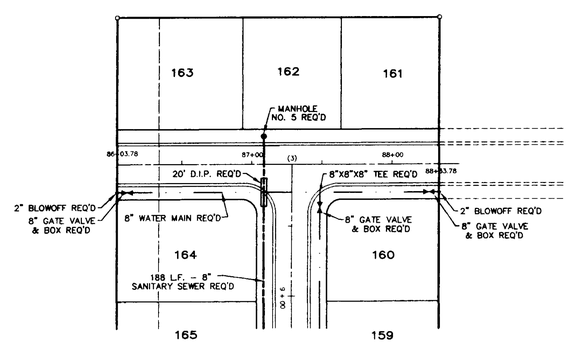
SHEET 6

CENTERLINE INTERSECTIONS
(2) STA. 5+11.11 ARLINGTON ←
STA. 40+33.37 WILLIAM BLVD.



WILLIAM BOULEVARD

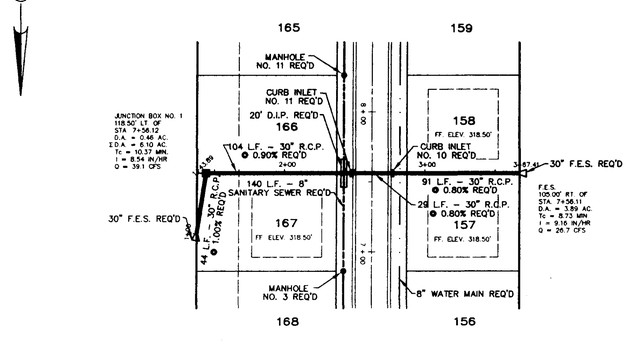
CENTERLINE INTERSECTIONS
(3) STA. 8+94.11 ARLINGTON ←
STA. 87+28.78 SPRINGFIELD COURT



SPRINGFIELD COURT

SANITARY SEWER STRUCTURE SCHEDULE

MANHOLE NO. 5
20.0' LT. STA. 10+14.10



DRAIN LINE "A"

DRAINAGE STRUCTURE SCHEDULE

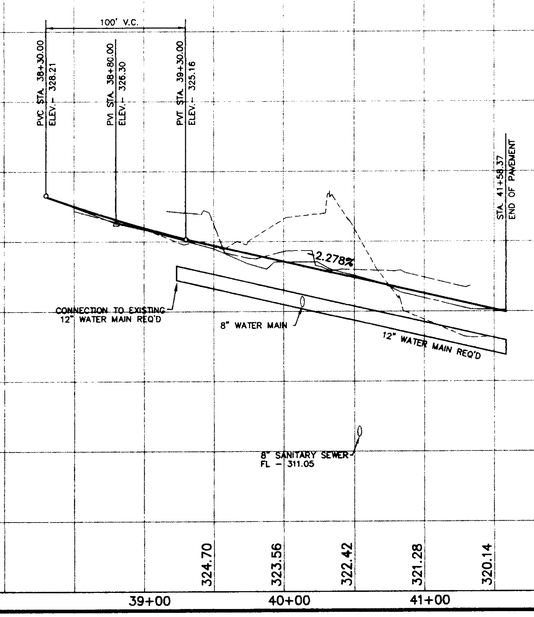
CURB INLET NO. 10	CURB INLET NO. 11
13.5' RT. OF	13.5' LT. OF
STA. 7+56.11	STA. 7+56.11
D.A. = 1.07 AC.	D.A. = 0.68 AC.
D.A. = 4.96 AC.	ΣD.A. = 5.64 AC.
Tc = 9.38 MIN.	Tc = 9.54 MIN.
I = 8.90 IN/HR	I = 8.84 IN/HR
Q = 33.1 CFS	Q = 37.4 CFS

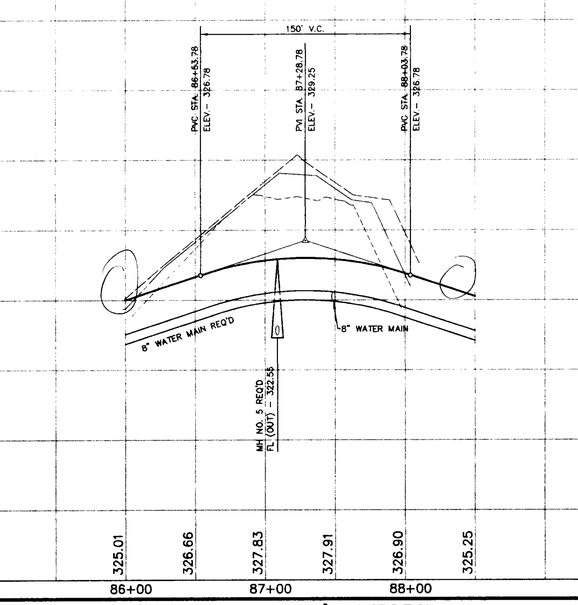
NOTE:
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 6" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER. (SEE "TYPICAL SERVICE CONNECTIONS" DETAIL - SHEET NO. 4)

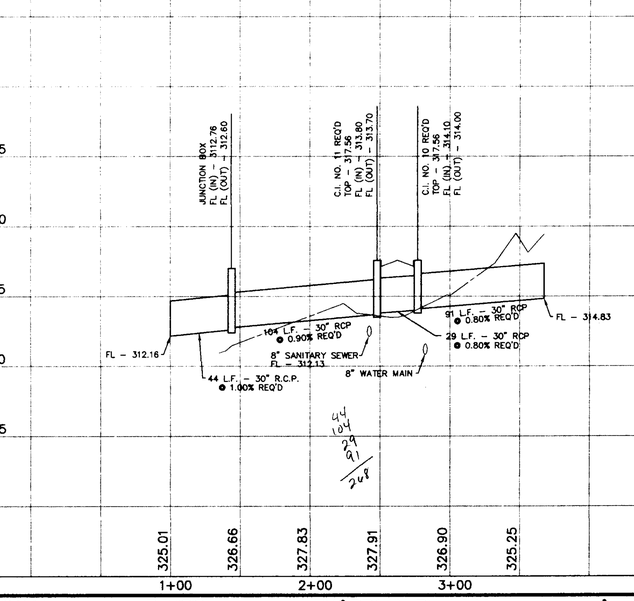
EXISTING GROUND - CENTERLINE ————————
EXISTING GROUND - 25' LEFT — — — — —
EXISTING GROUND - 25' RIGHT - - - - - - -

NOTE: CURB RETURN RADII - R=20.0' (BACK OF CURB)

NOTE: 3' MINIMUM COVER REQUIRED OVER PROPOSED SANITARY SEWER AND WATER MAINS







DRAWING NO. HGJ-PP2.DWG

H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236
601-362-4886

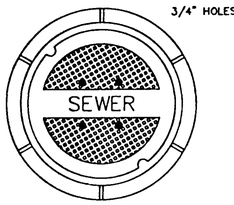
PROJECT
HAWTHORN GREEN SUBDIVISION, PART 3-B

DESCRIPTION
PLAN AND PROFILE
WILLIAM BOULEVARE / SPRINGFIELD COURT / DRAIN LINE "A"

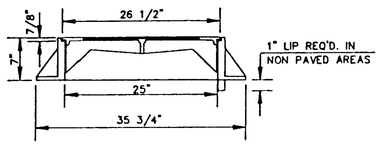
DATE	REVISION	BY

DRAWN BY: L.L.M.
DATE: 7-23-98
SCALE: 1" = 50'
BOOK: PAGE:
PROJECT NO.: 98-064

SHEET
7

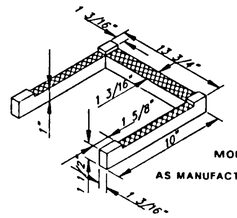


TOP PLAN OF COVER



SECTION

FRAME & COVER WEIGHT 420 LBS.

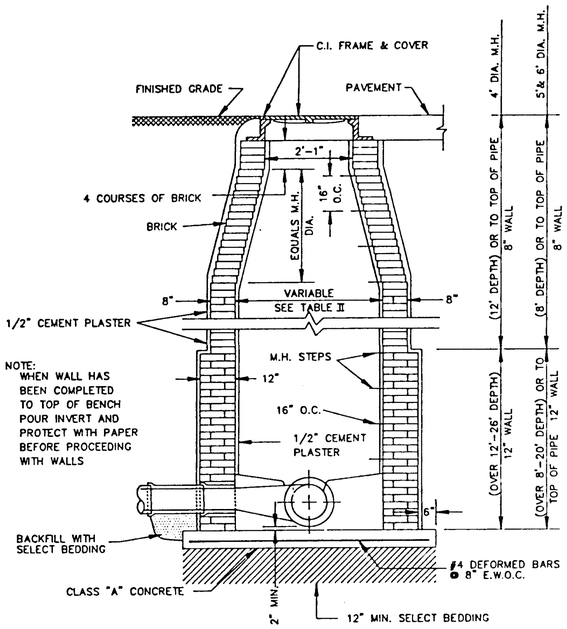


MODEL NO. PS2 - PF
AS MANUFACTURED BY M.A INDUSTRIES INC.

DETAIL "B"

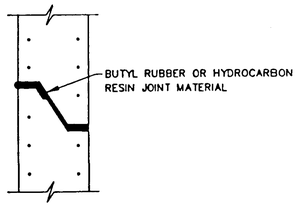
STANDARD MANHOLE FRAME AND COVER

N.T.S.



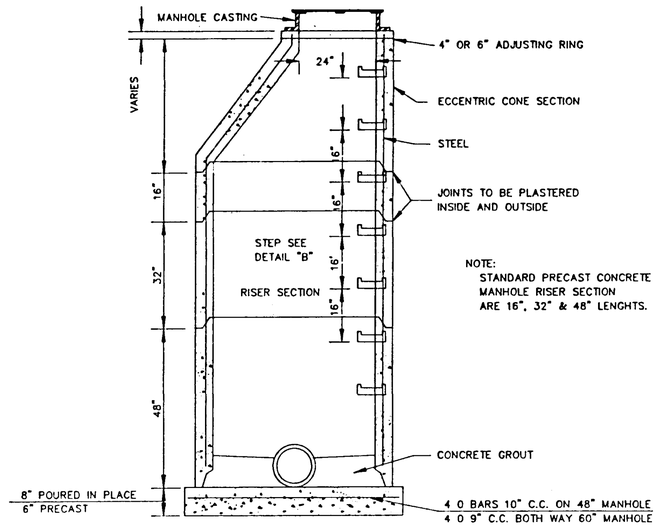
STANDARD BRICK MANHOLE

N.T.S.



TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL

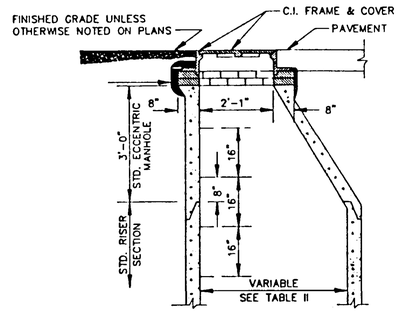
N.T.S.



NOTE:
STANDARD PRECAST CONCRETE MANHOLE RISER SECTION ARE 16", 32" & 48" LENGHTS.

SECTION OF PRECAST CONCRETE MANHOLE

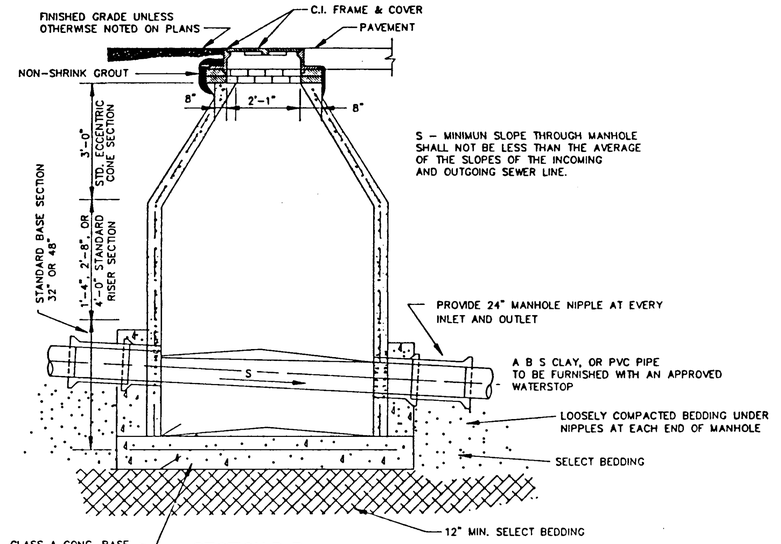
N.T.S.



NOTE:
DETAILS FOR RISER & BASE SECTIONS ARE SAME AS SHOWN IN SECTIONS A-A B-B.

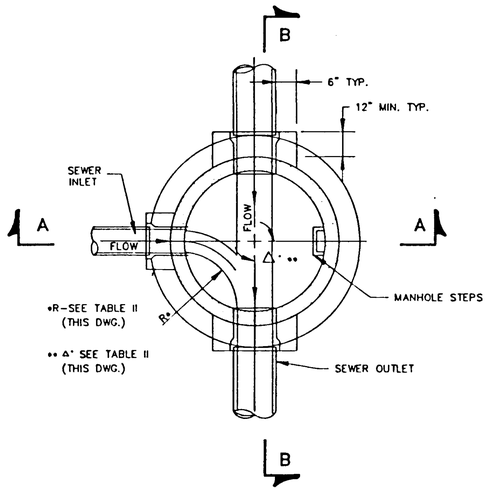
STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES

N.T.S.



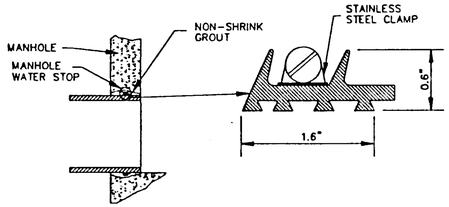
SECTION B-B

N.T.S.



SECTIONAL PLAN STANDARD MANHOLE

N.T.S.



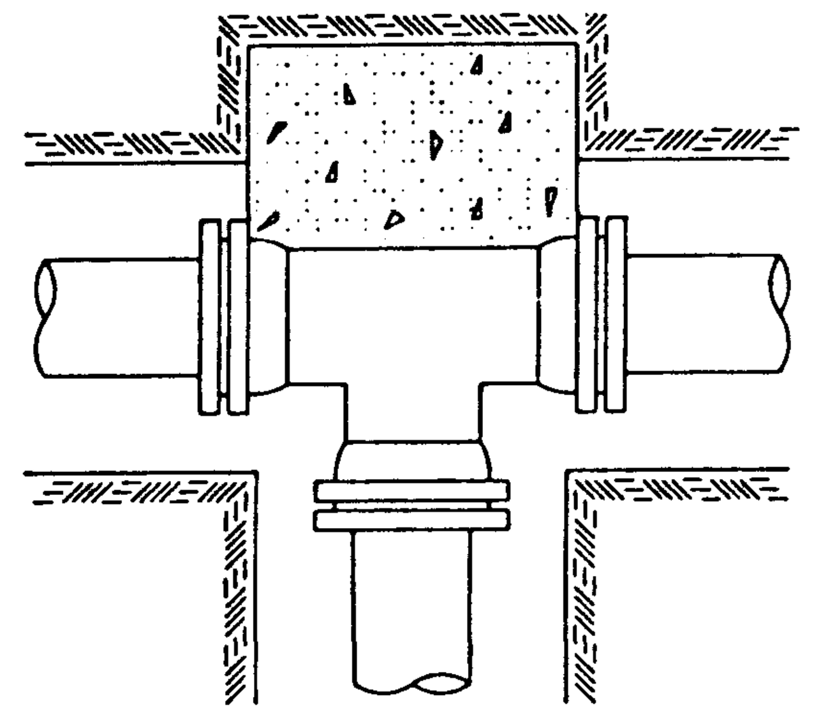
TYPICAL MANHOLE WATER STOP FOR ABS, CLAY OR PVC PIPE

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

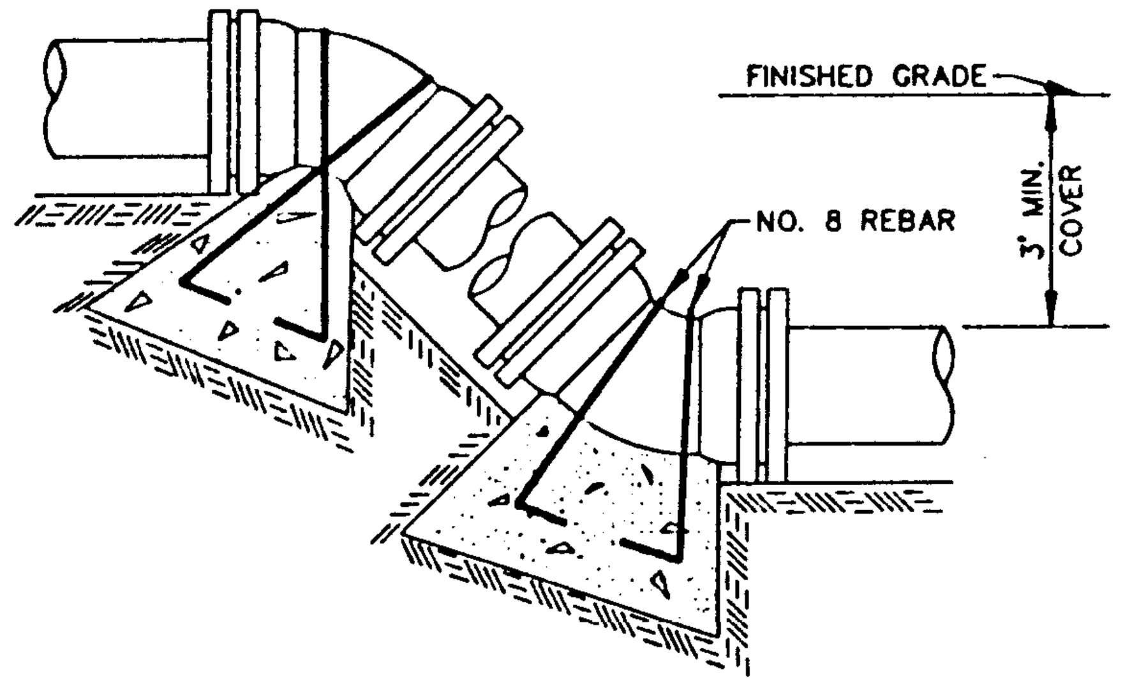
CITY OF RIDGELAND, MS.

STANDARD DETAILS

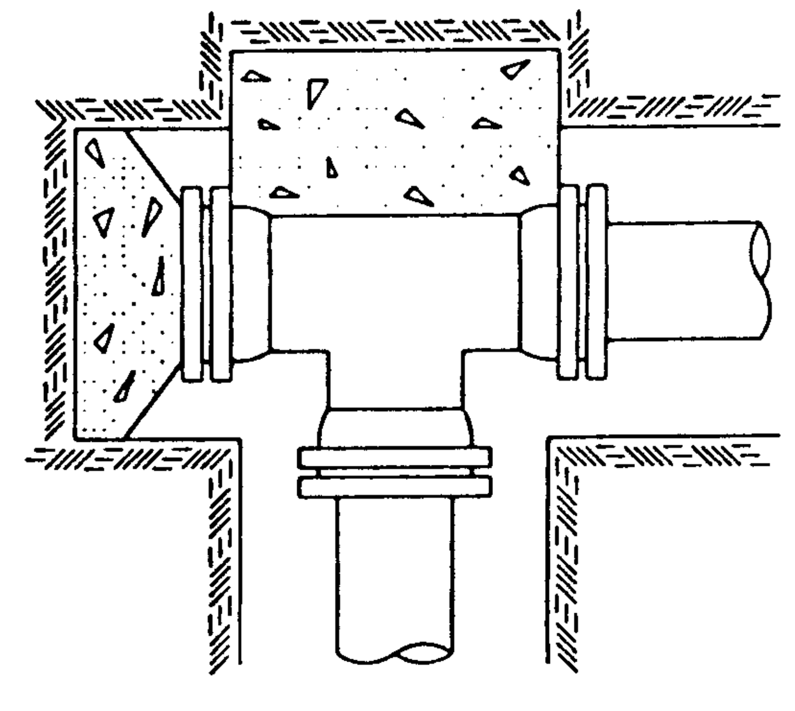
DSGN.		THE CITY OF RIDGELAND	DRAWING NO.
DRWN.			
CHKD.			OF
SCALE:			



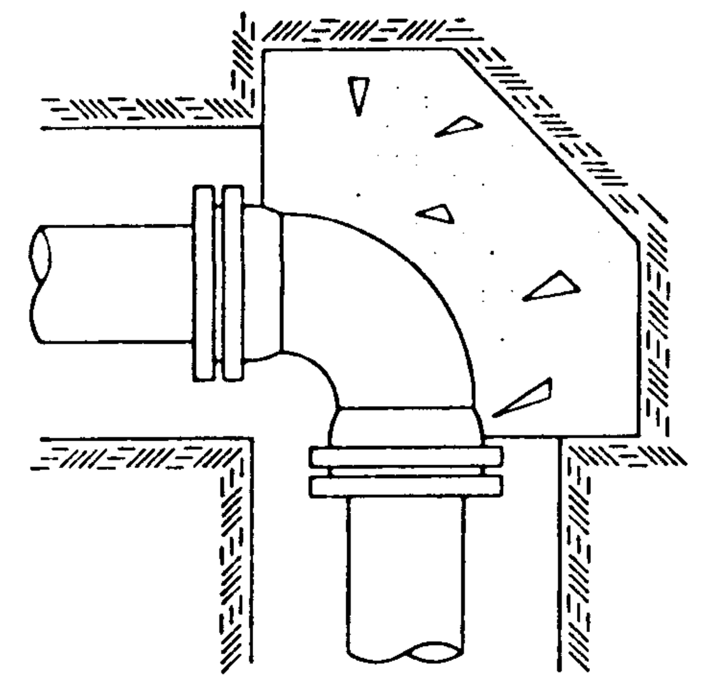
TEE



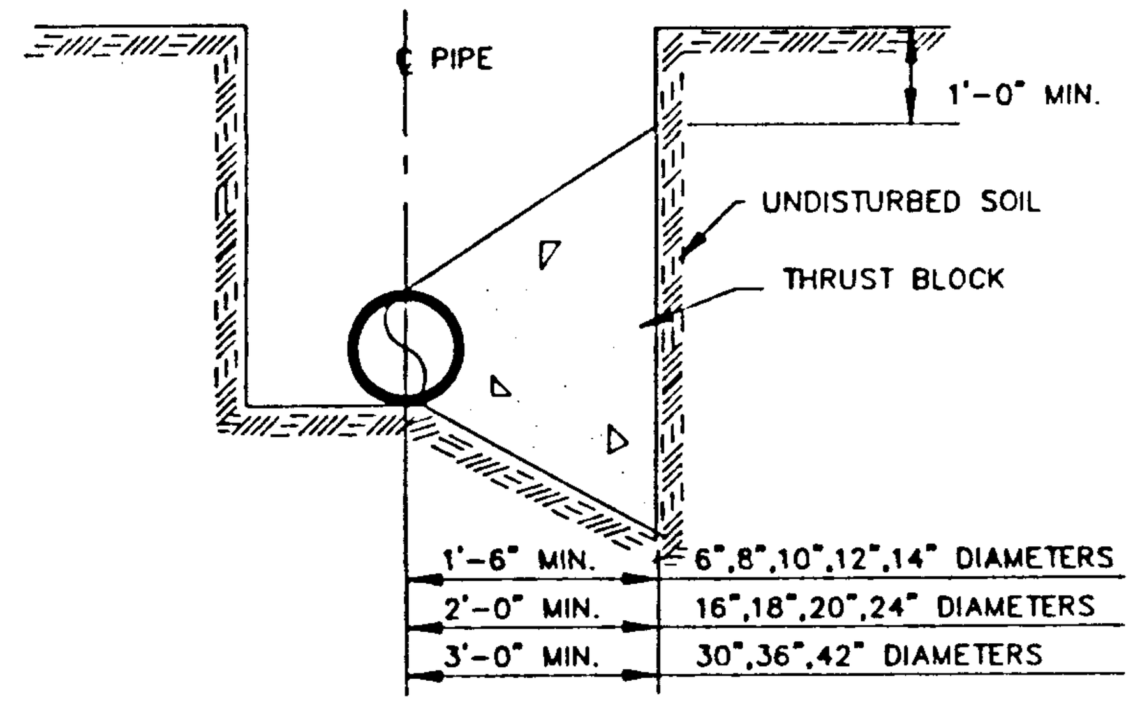
VERTICAL BENDS



PLUGGED TEE



90° BEND

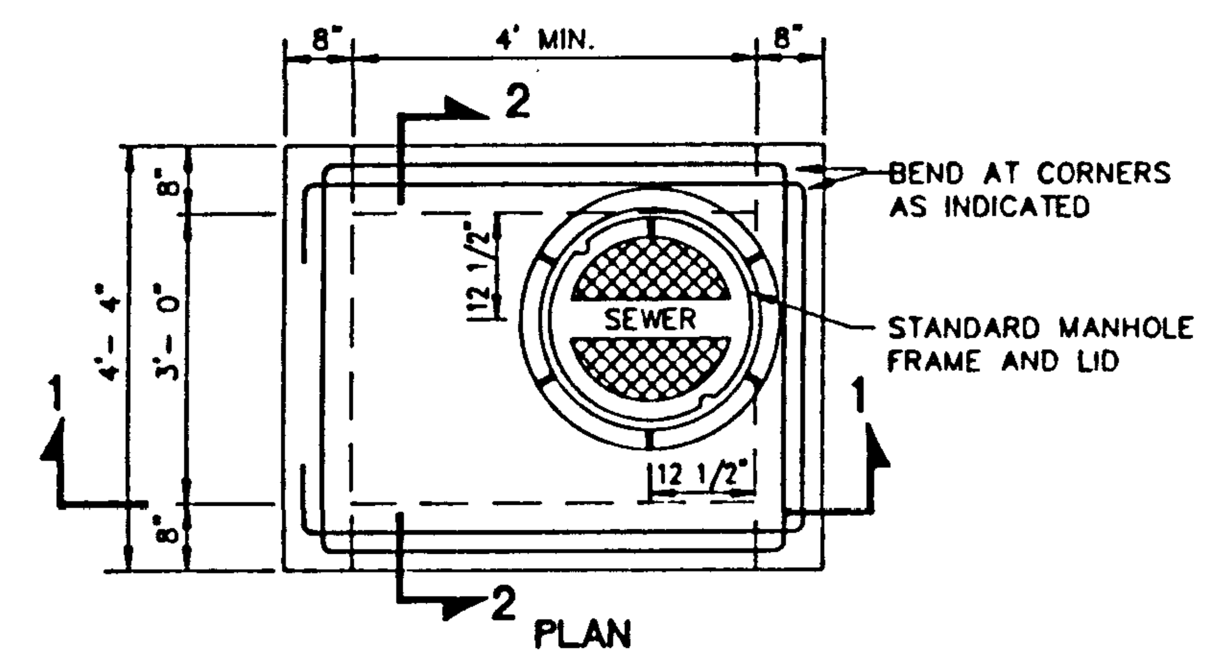


TYPICAL CROSS SECTION

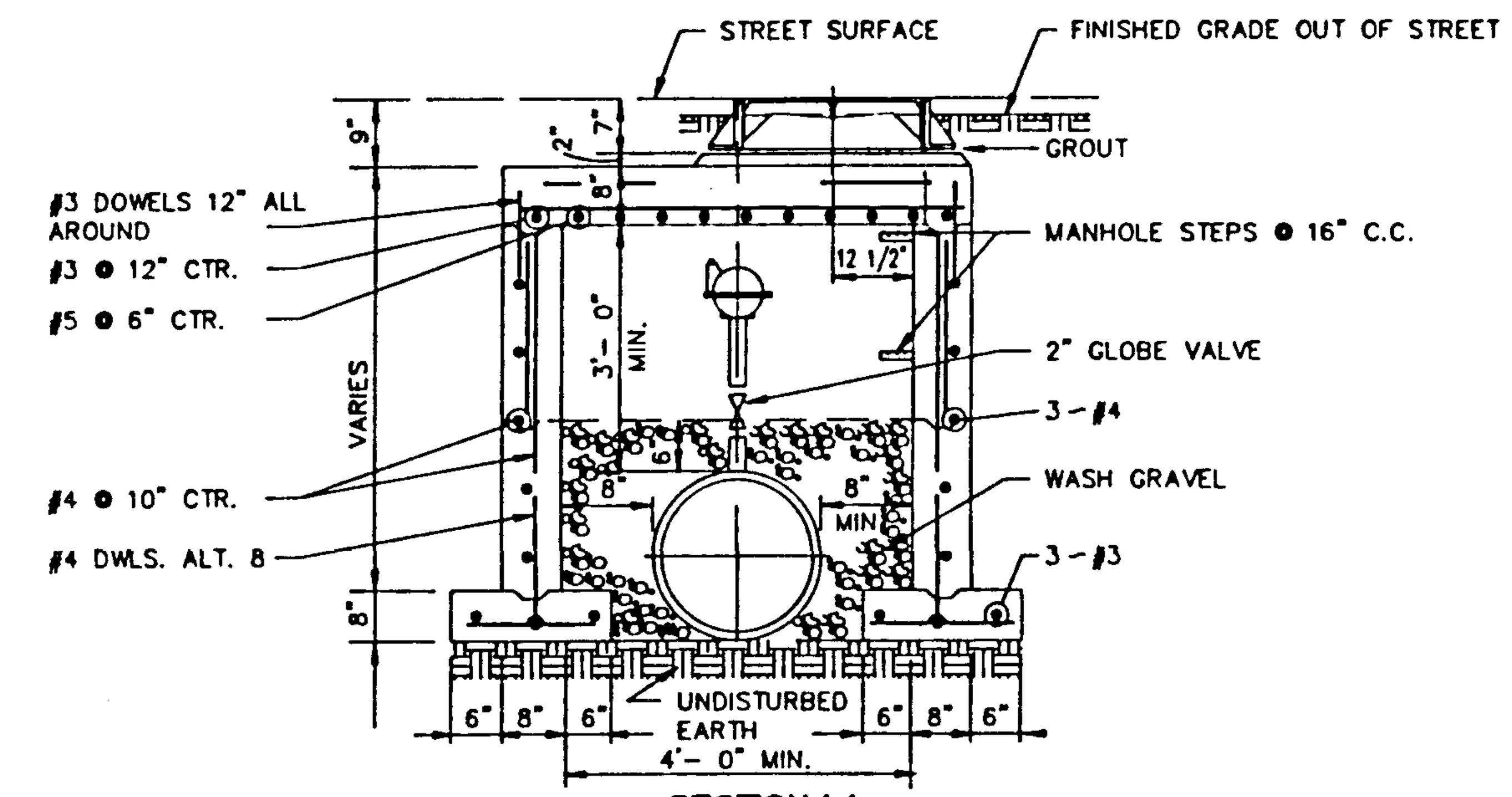
TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

N.T.S.

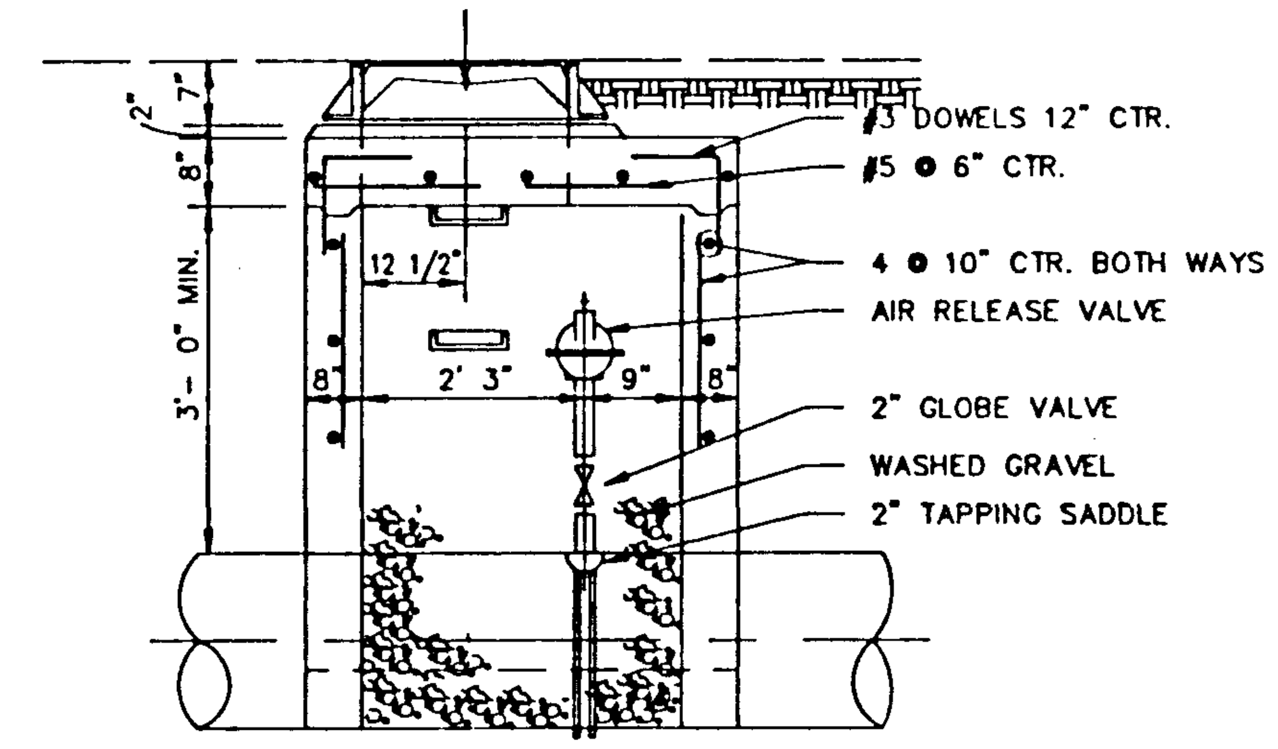
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH



PLAN



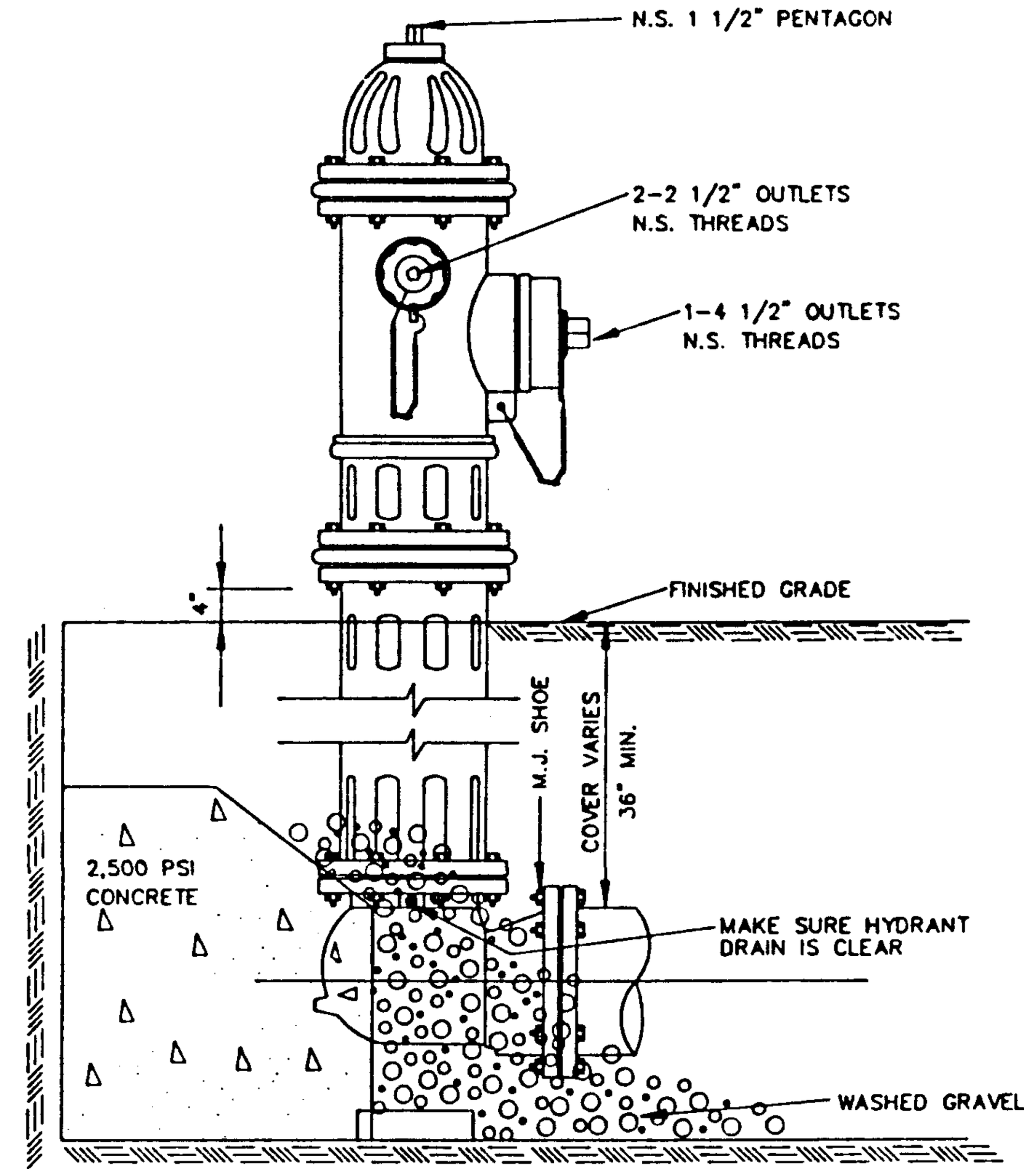
SECTION 1-1



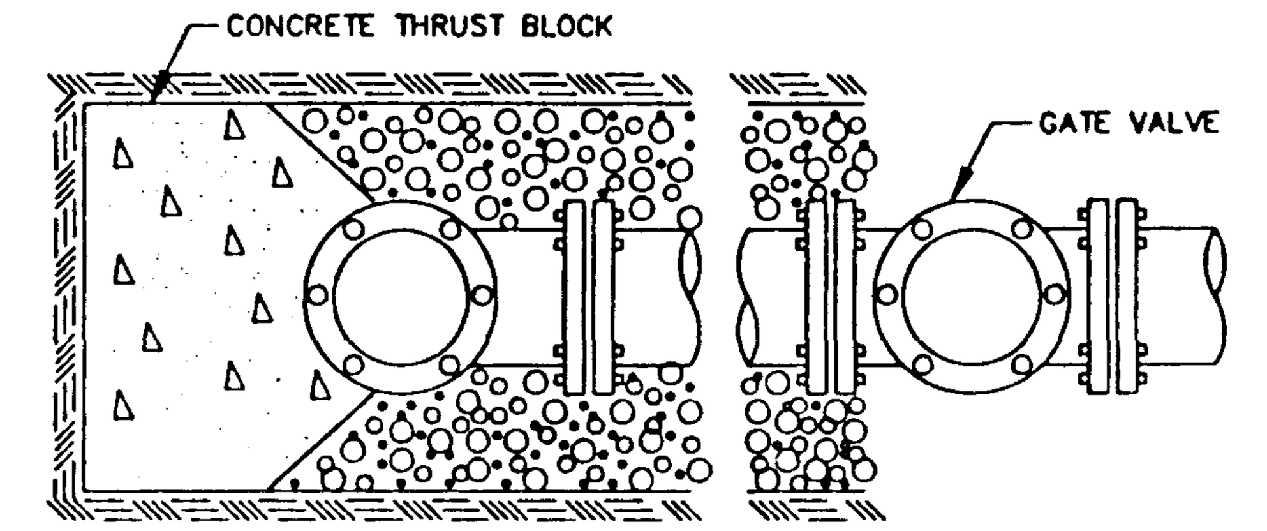
SECTION 2-2

TYPICAL AIR OR AIR VACCUUM 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.

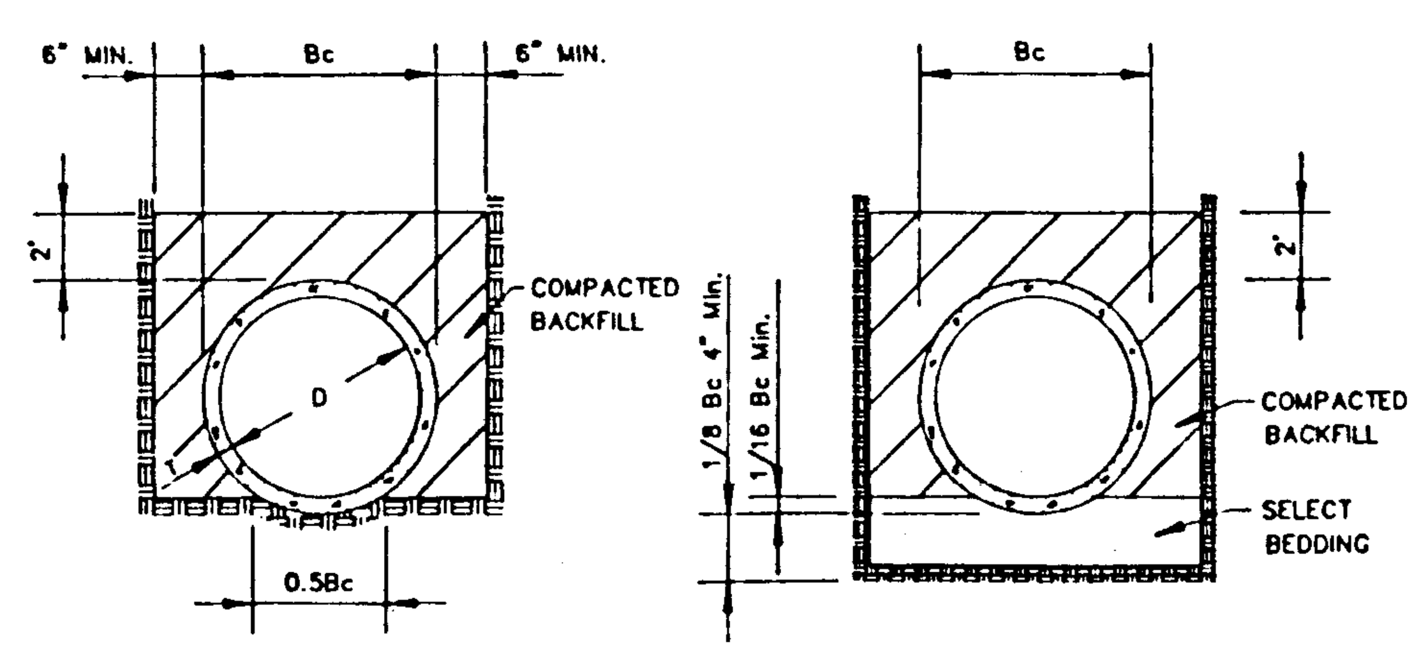
BEARING AREA IN SQ. FT. / VERTICAL BENDS

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	NOMINAL PIPE DIAMETER (IN)	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.



SHAPED BOTTOM   GRANULAR BEDDING

CLASS C

TYPICAL TRENCH DETAILS

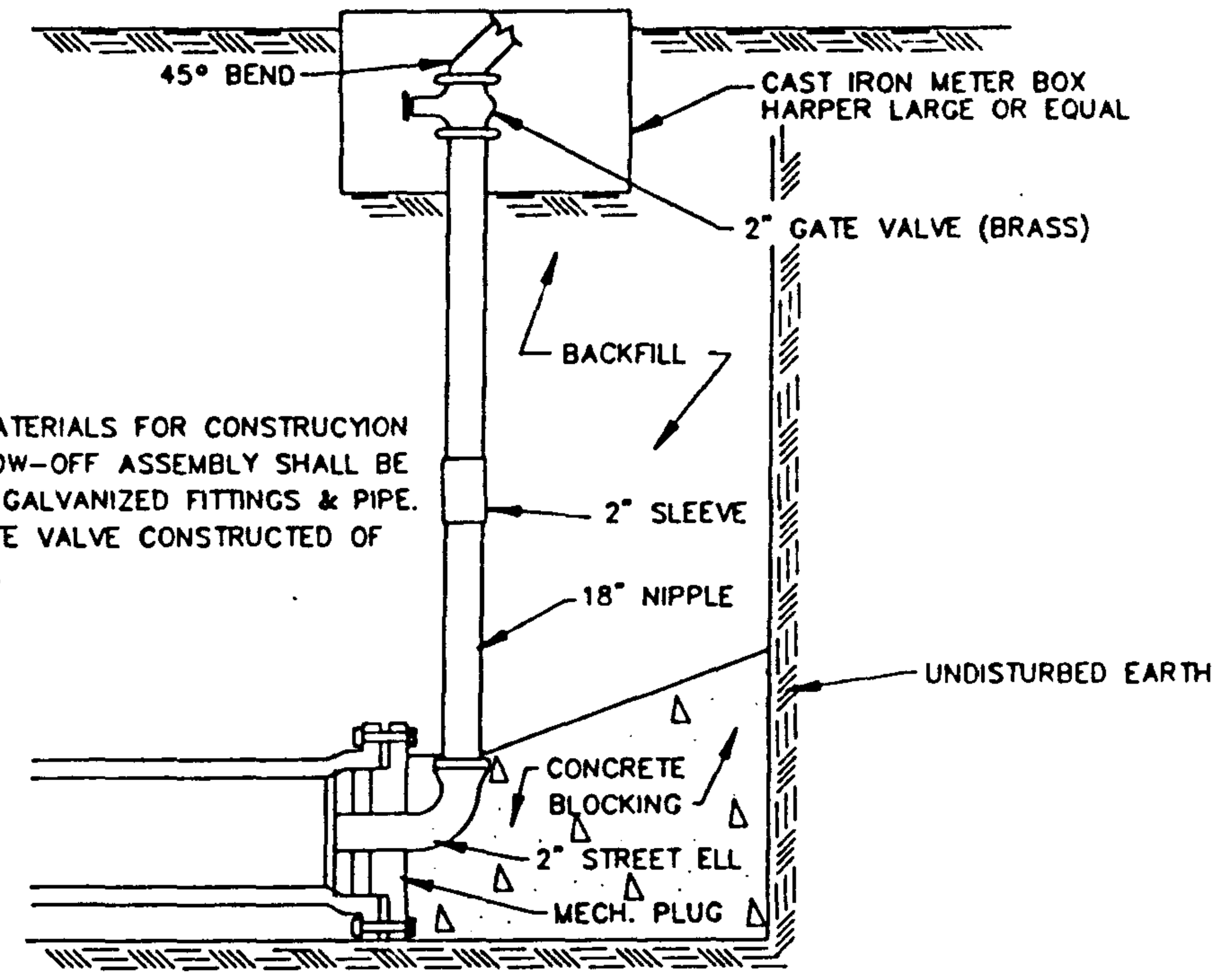
N.T.S.

CITY OF RIDGELAND, MS.

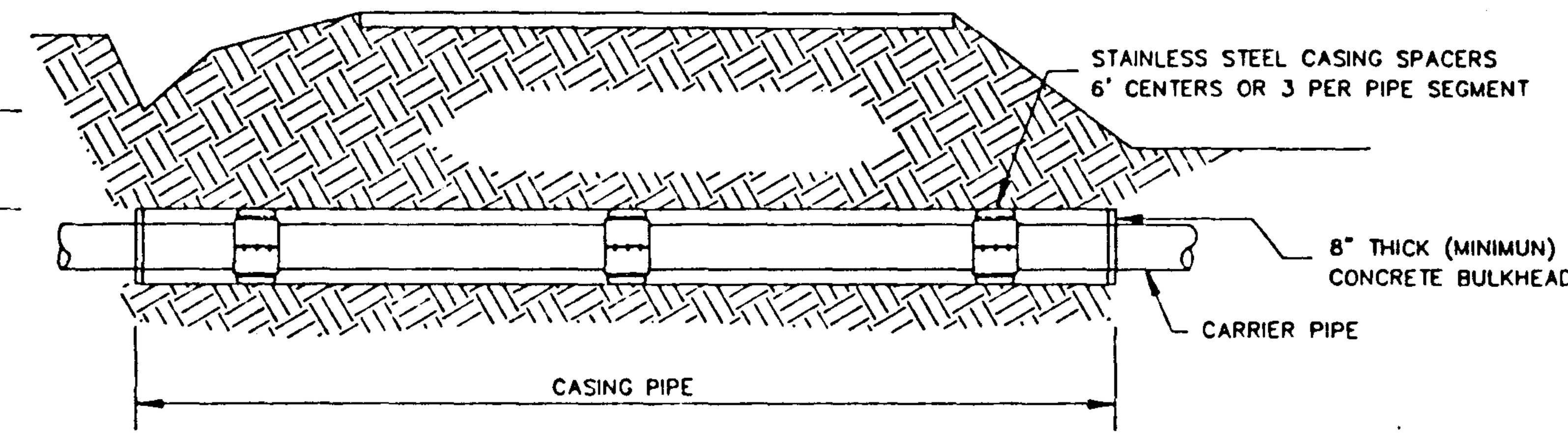
STANDARD DETAILS

DSGN:			DRAWING NO.
DRWN:		RIDGELAND	
CHKD:			OF
SCALE:			

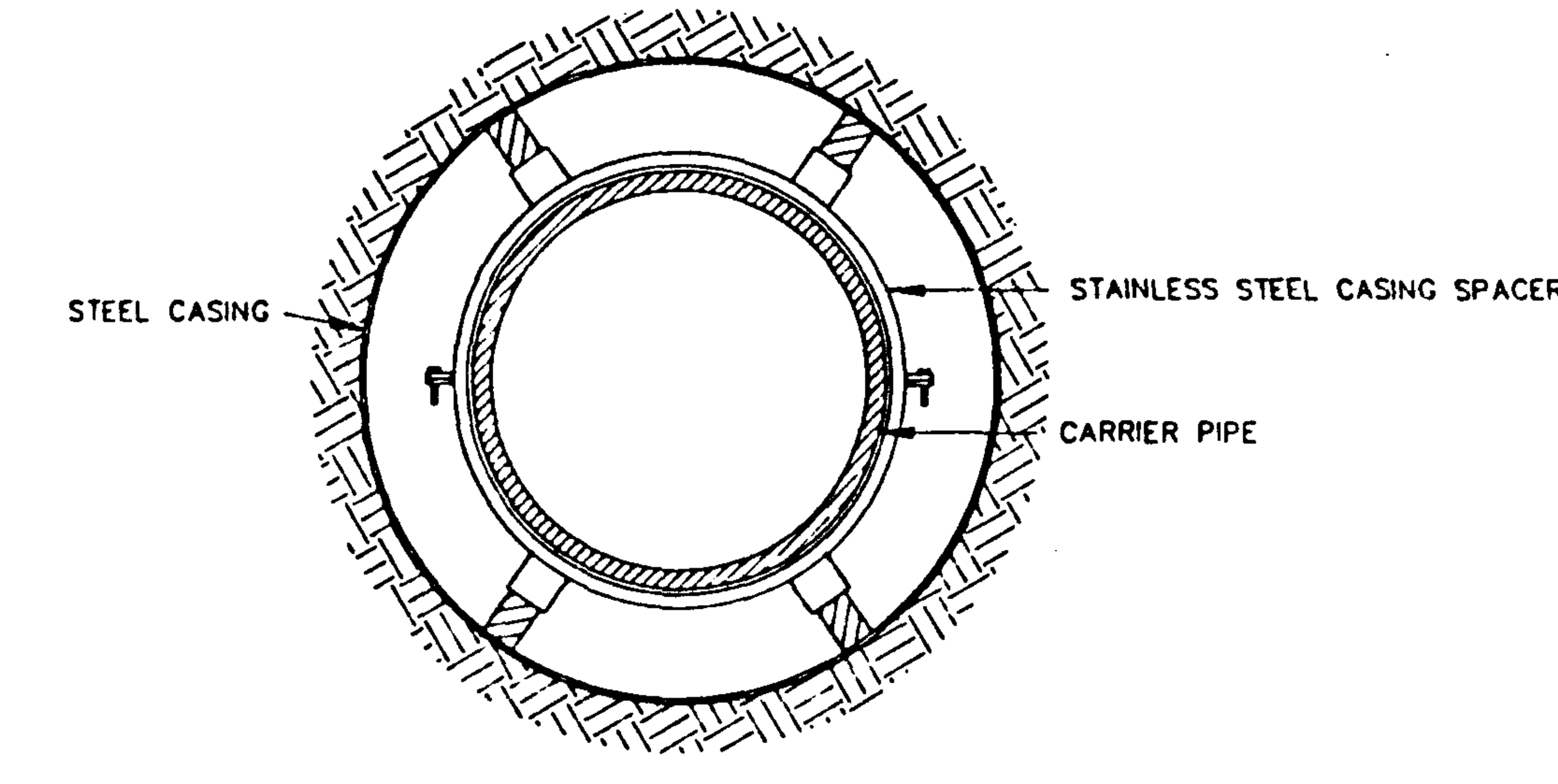
NOTE:
ALL MATERIALS FOR CONSTRUCYION OF BLOW-OFF ASSEMBLY SHALL BE OF 2" GALVANIZED FITTINGS & PIPE. 2" GATE VALVE CONSTRUCTED OF BRASS.



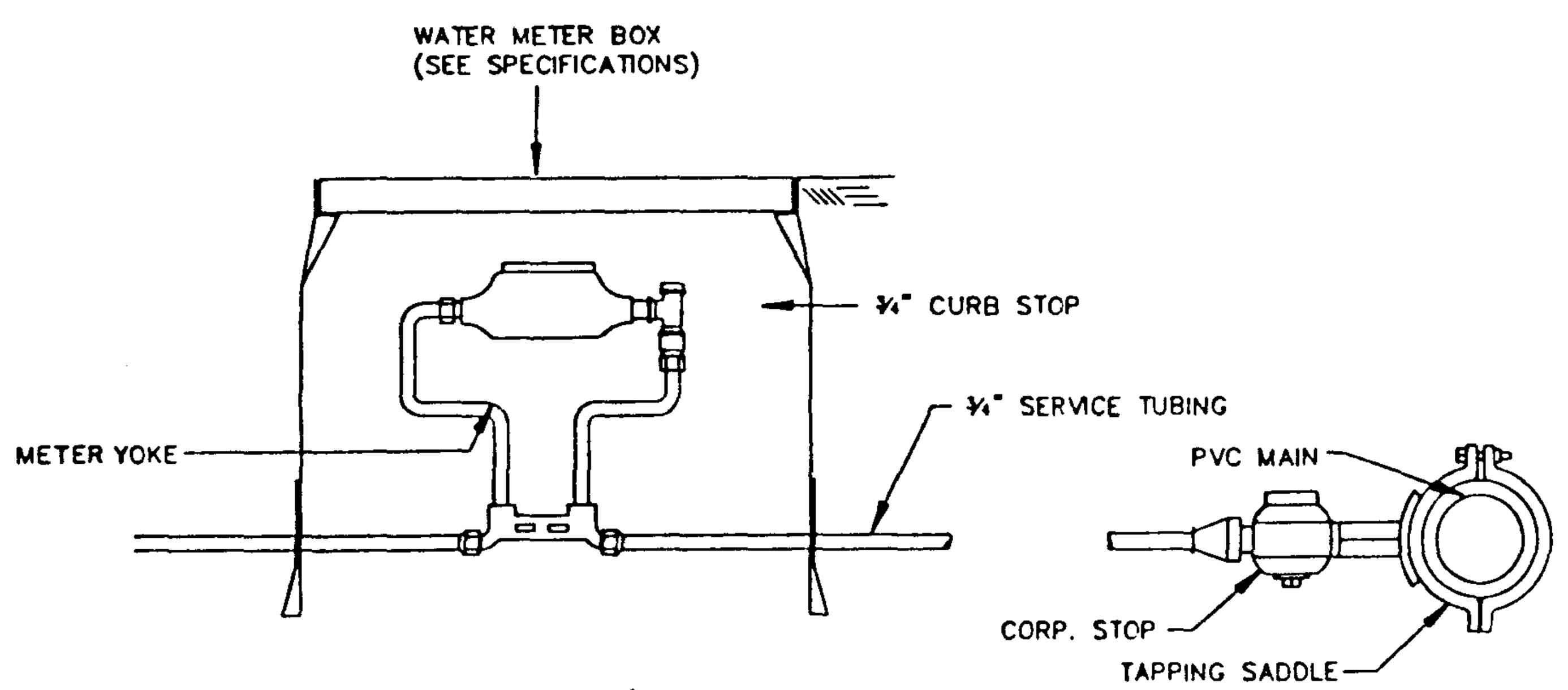
TYPICAL BLOW-OFF ASSEMBLY
N.T.S.



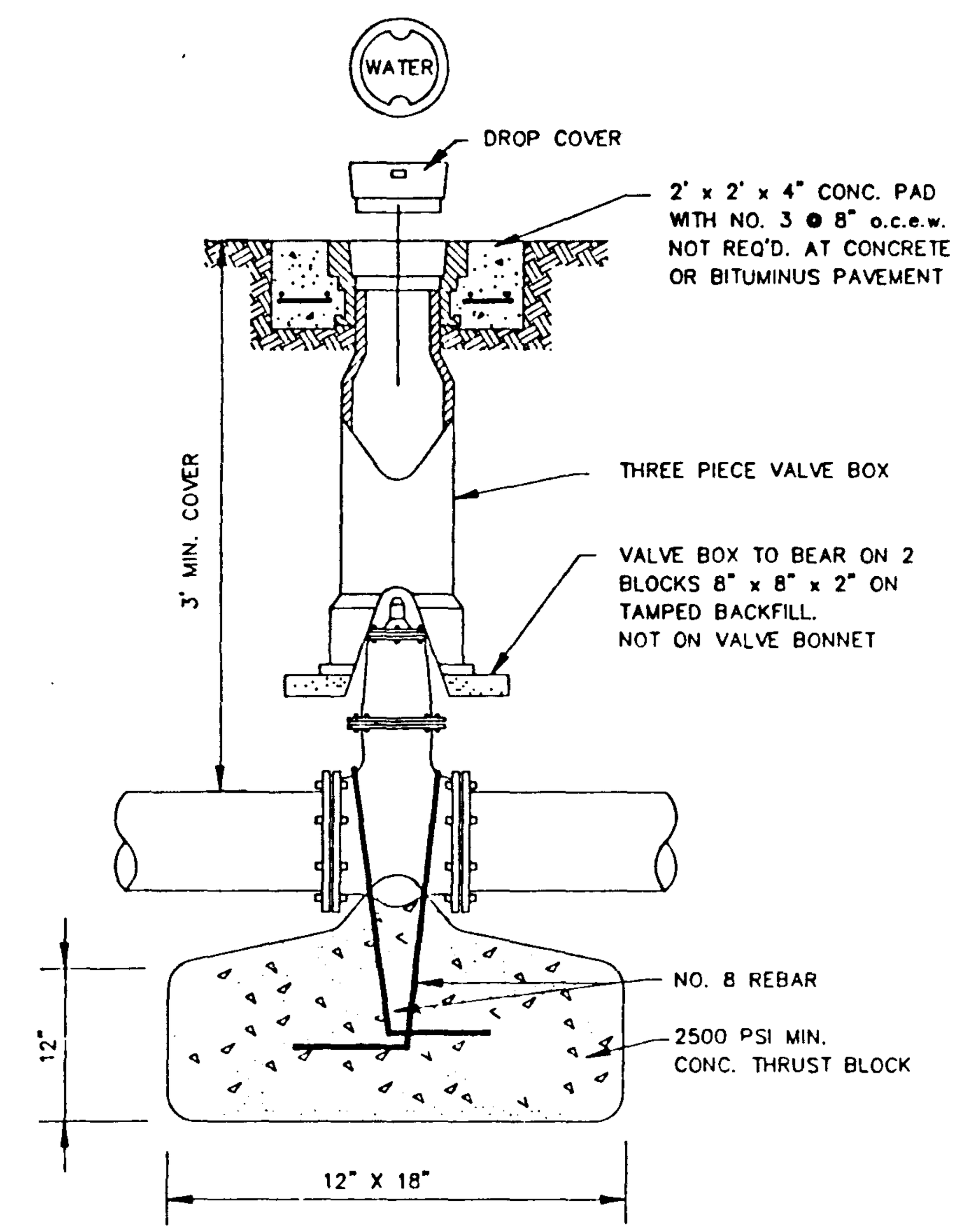
TYPICAL BORE SECTION
N.T.S.



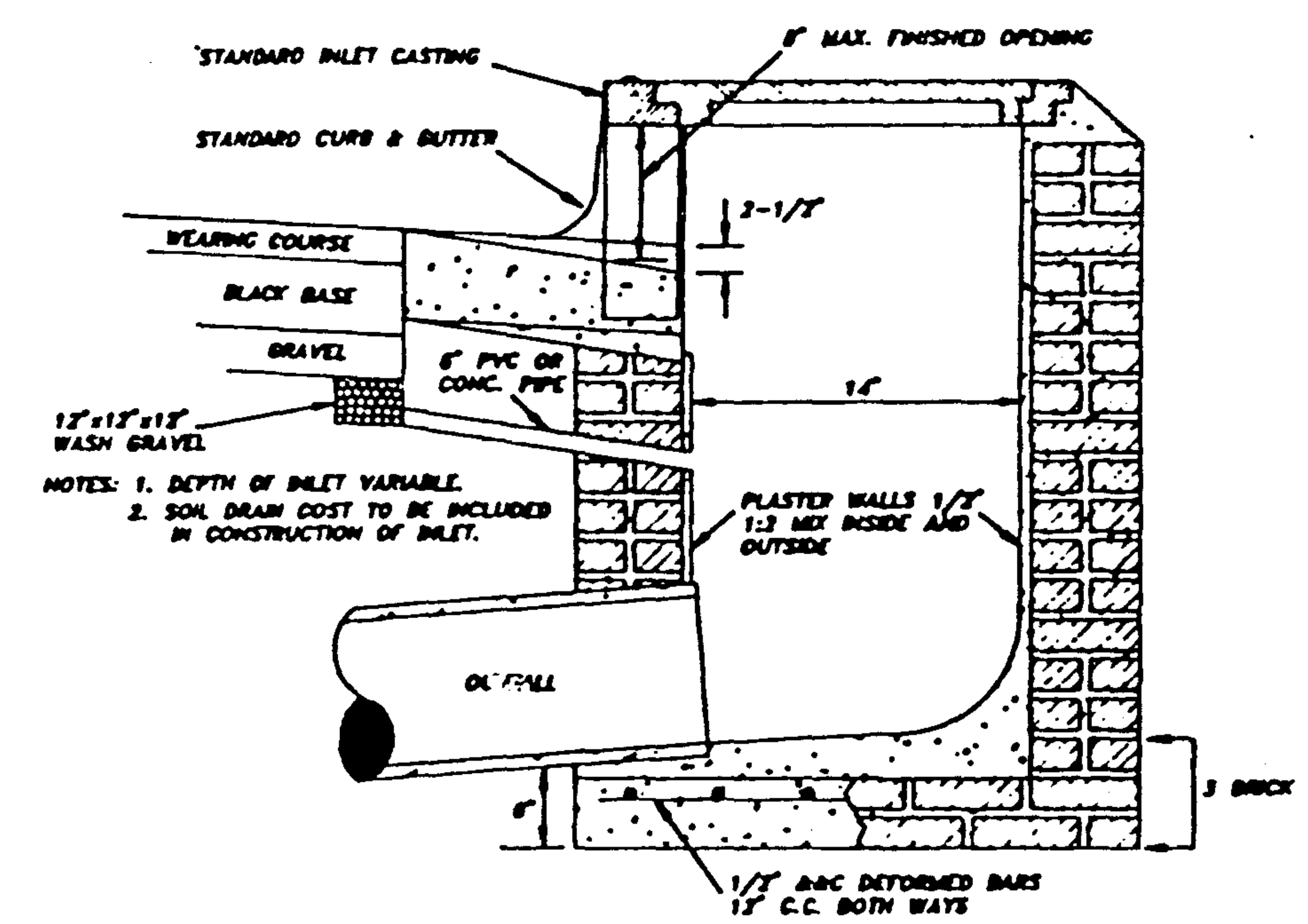
BORE SECTION
N.T.S.



TYPICAL 3/4" WATER SERVICE
N.T.S.

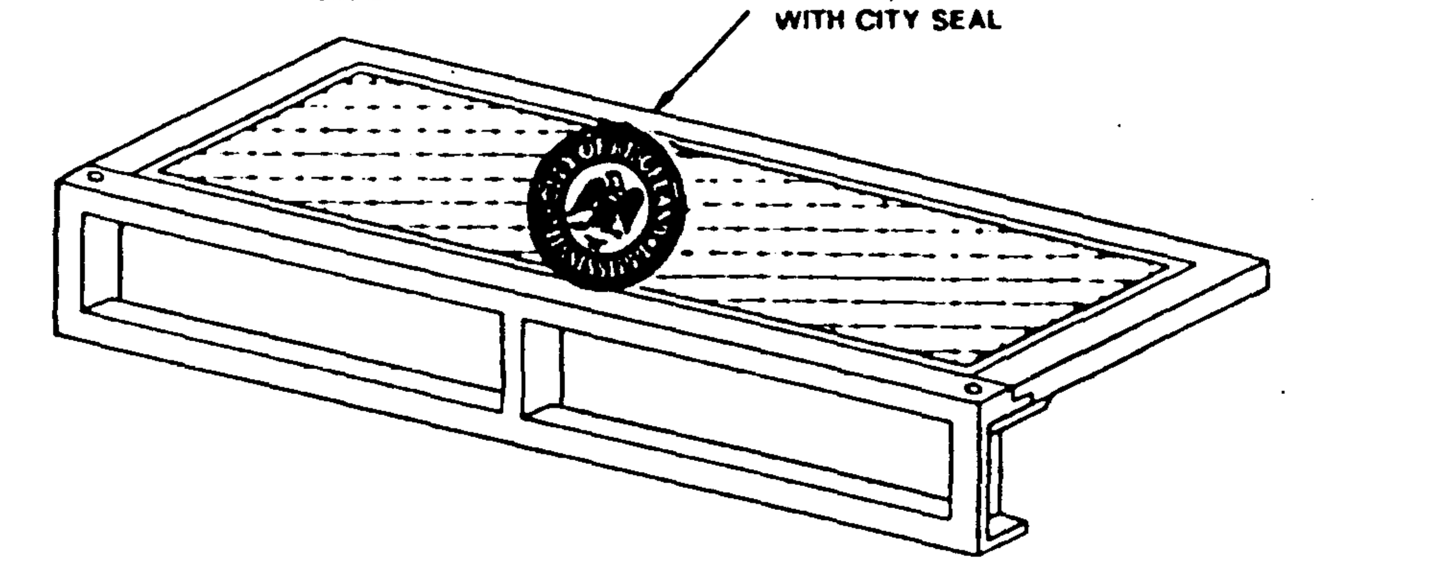


GATE VALVE DETAIL
N.T.S.

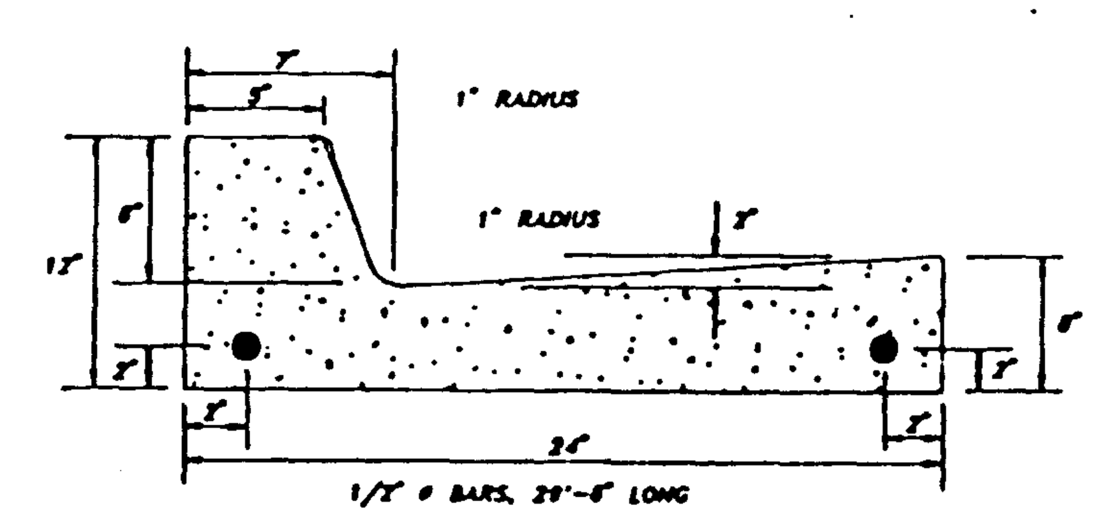


SECTION OF STANDARD CURB INLET

INLET CASTING TO BE VULCAN - V-4302-1 OR C.L. DEWS & SONS - DF-2450 WITH CITY SEAL



STANDARD CURB INLET CASTING



NOTES: 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 LB. CONCRETE.

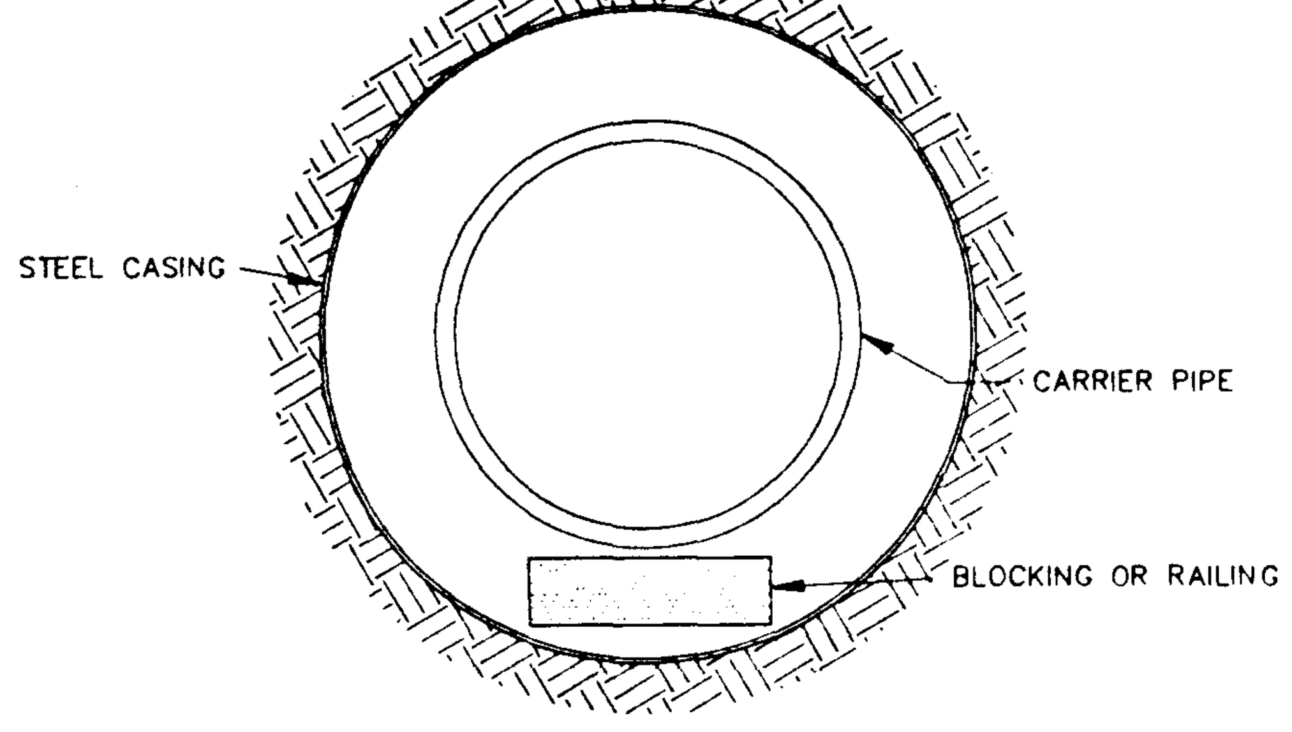
2. 2 - 3/4" DOWEL BARS, 15" LONG REQD. AT EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS AND 1/2" EXPANSION MATERIALS.

STANDARD CURB & GUTTER

CITY OF RIDGELAND, MS.

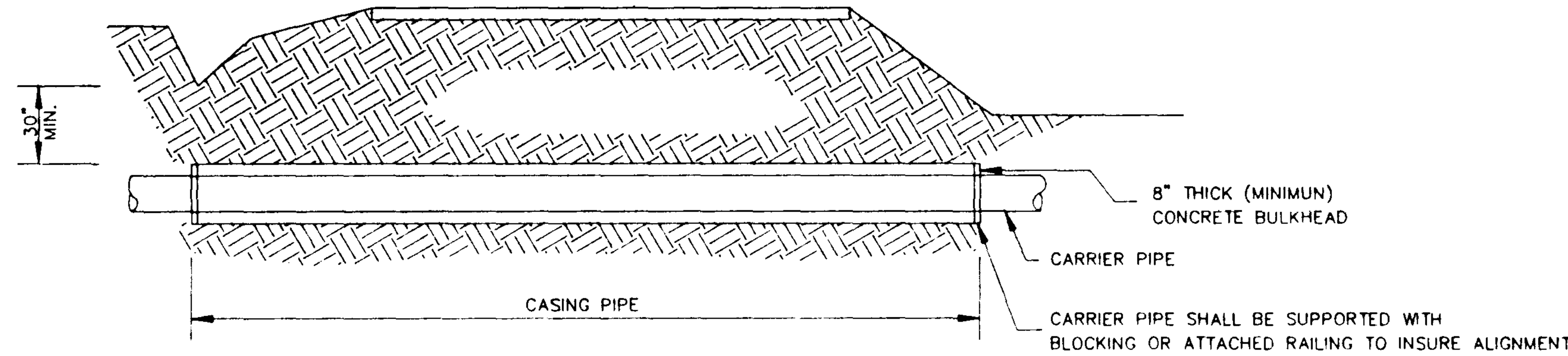
STANDARD DETAILS

DSGN:	THE CITY OF RIDGELAND	DRAWING NO.
DRWN:		
CHKD:		OF
SCALE:		



BORE SECTION

N.T.S.

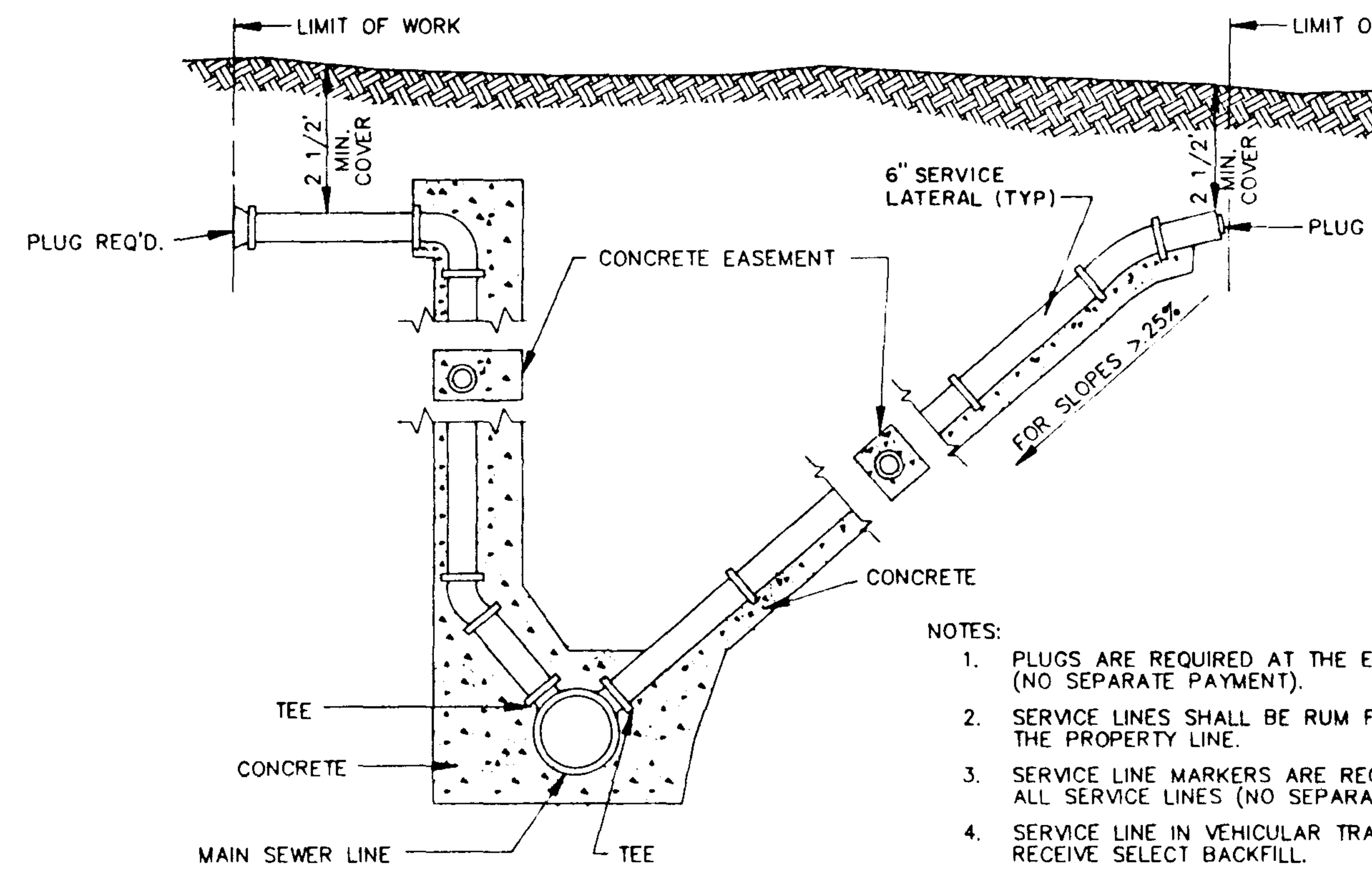


TYPICAL BORE SECTION

N.T.S.

TABLE II GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	Δ 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

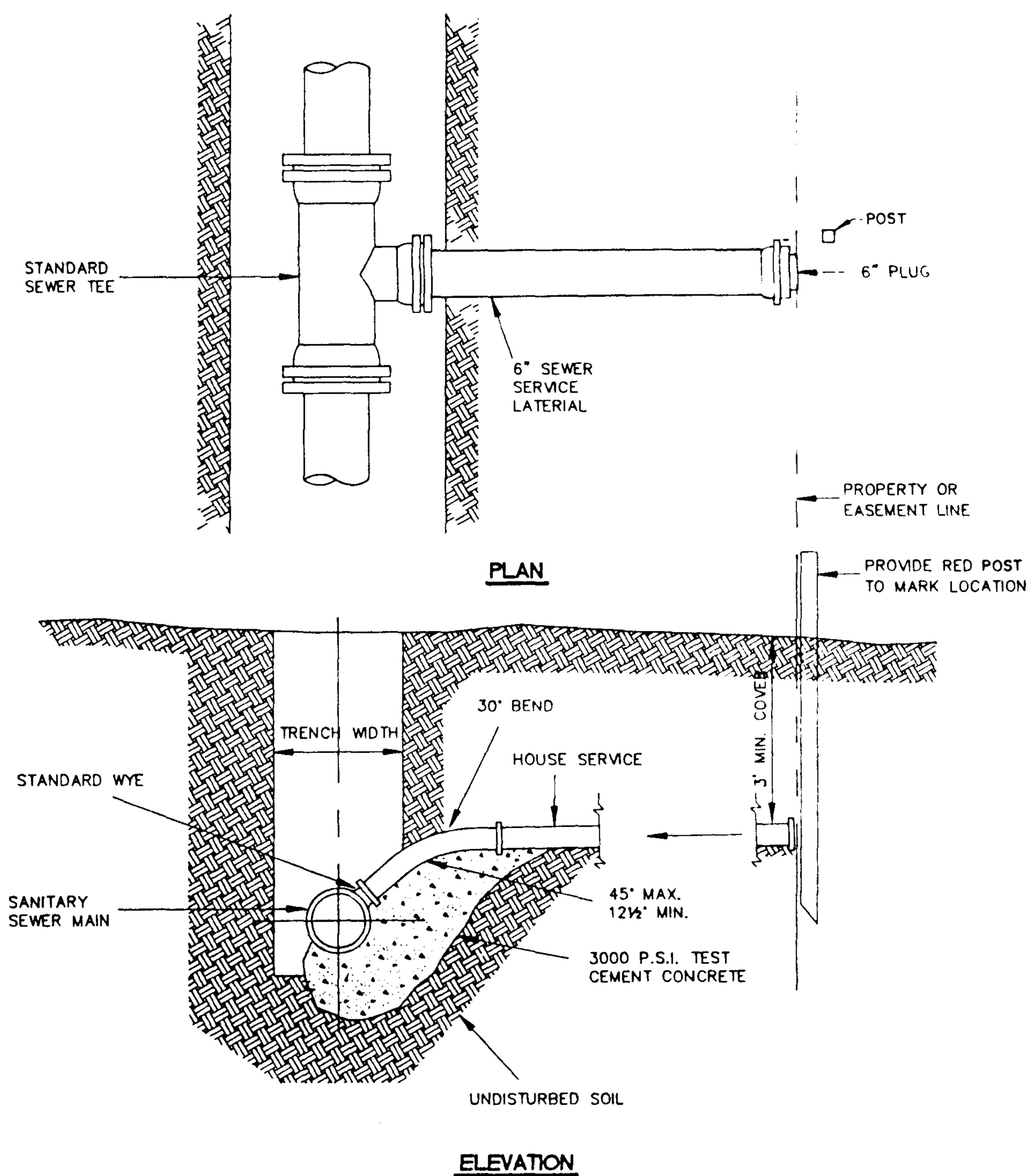


NOTES:

1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
2. SERVICE LINES SHALL BE RUM 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.

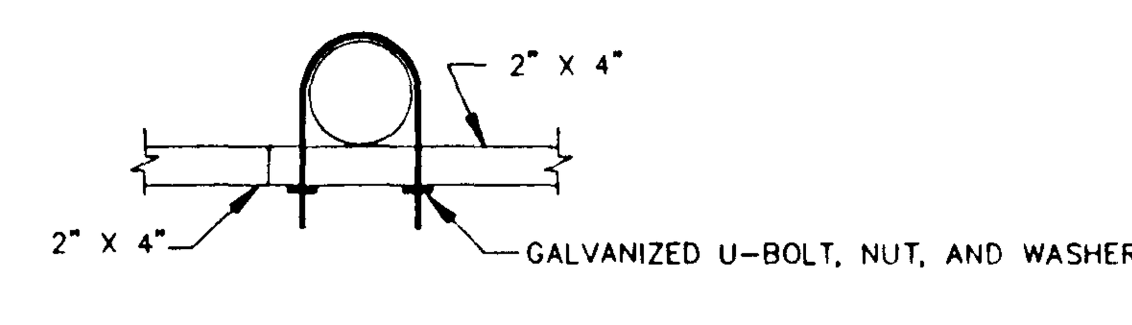
SERVICE CONNECTION FOR DEEP SEWER

N.T.S.



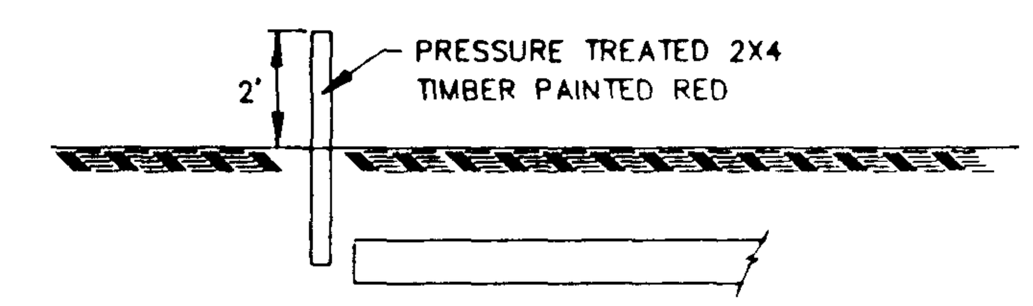
SEWER SERVICE CONNECTION

N.T.S.



SUPPORT MOUNTING DETAIL

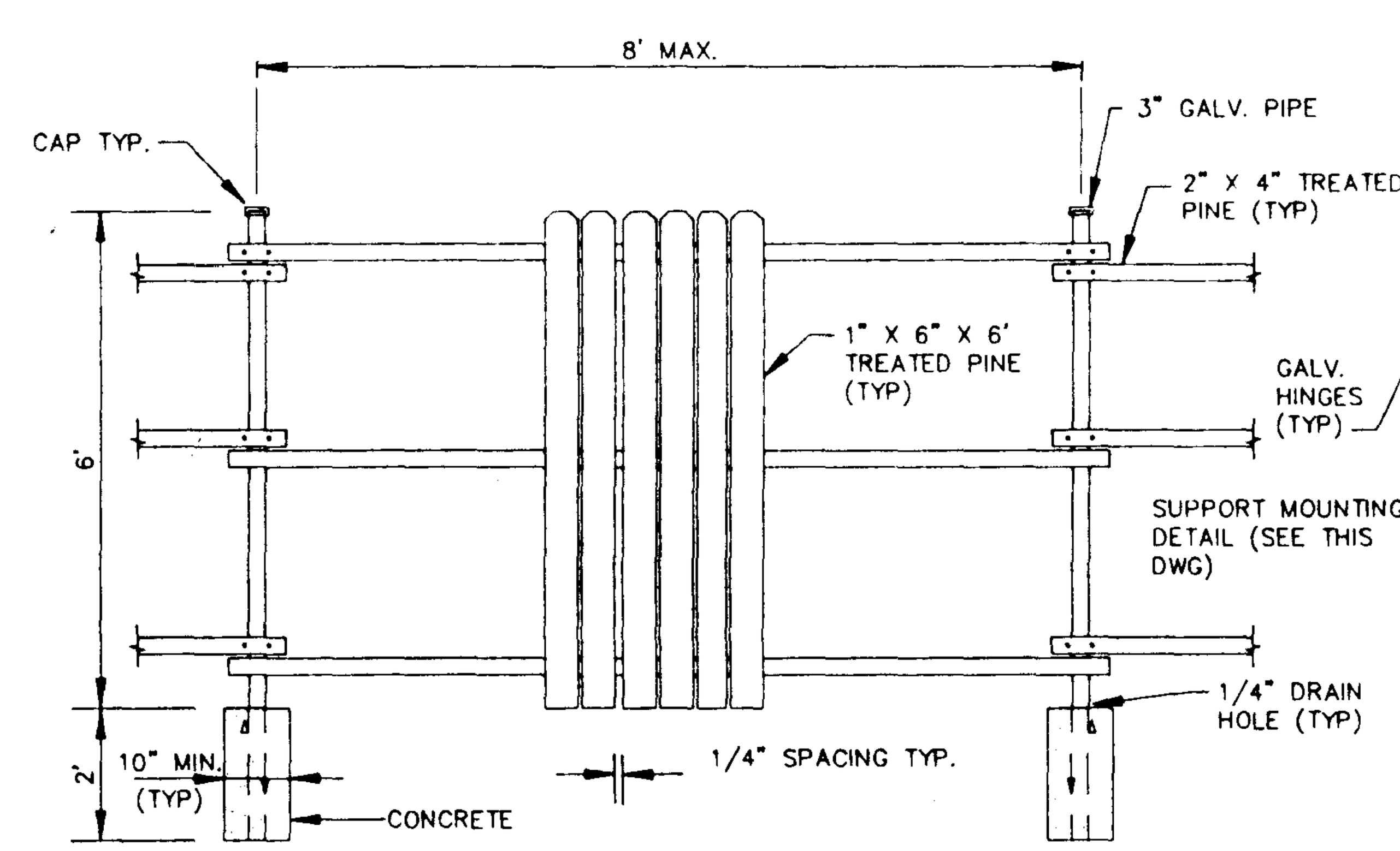
N.T.S.



SERVICE LINE MARKER

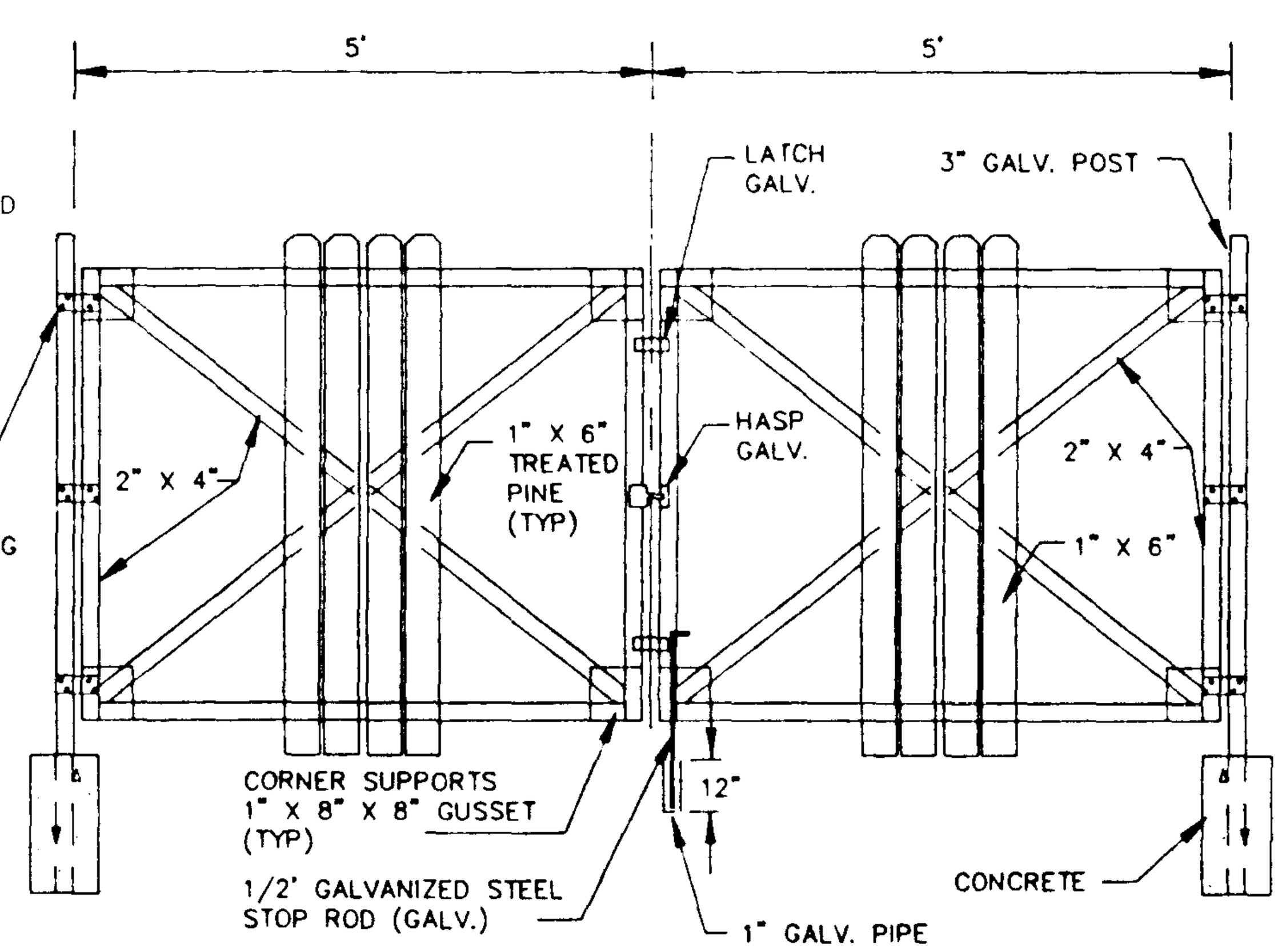
(NO SEPARATE PAYMENT)

N.T.S.



FENCE DETAIL

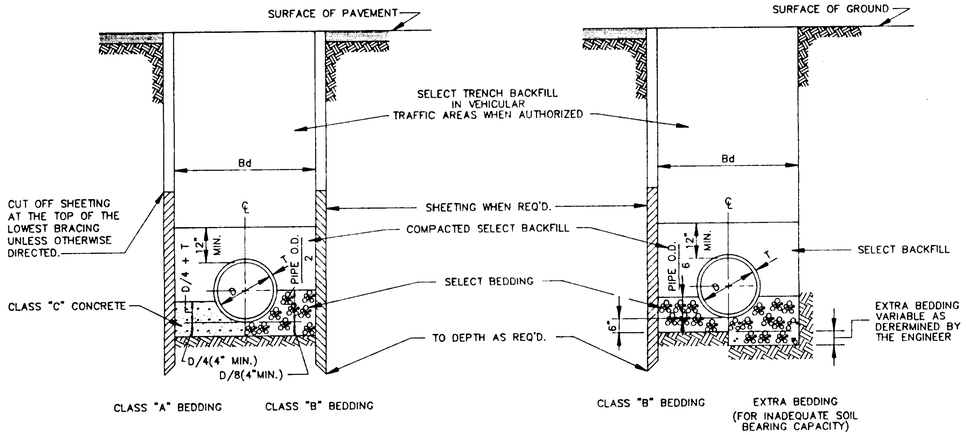
N.T.S.



GATE DETAIL

N.T.S.

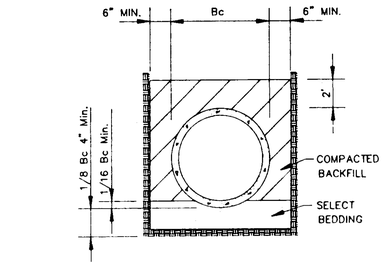
CITY OF RIDGELAND, MS.	
STANDARD DETAILS	
DSGN:	
DRWN:	
CHKD:	
SCALE:	
DRAWING NO.	
OF	



BEDDING FOR VITRIFIED CLAY, CONCRETE & ABS PIPE

TYPICAL TRENCH DETAILS

N.T.S.



GRANULAT BEDDING
TYPE 3 LAYING CONDITION

TYPICAL TRENCH DETAILS (FORCE MAIN)

CLASS "A" BEDDING

MATERAL 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 PREMITTED. 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.

DUCTILE IRON

R.C.P.

SPIRAL WELDED STEEL

LINEAR PLATE

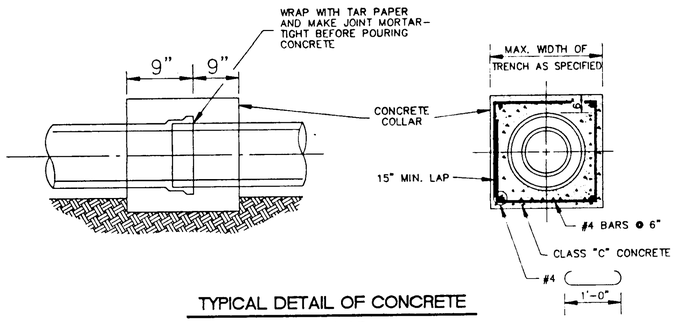
TABLE "A" PIPE SIZE		
CARRIER PIPE (INCHES)	CASING PIPE DIA. (INCHES)	CASING PIPE STEEL PIPE WALL THICK
8	16	1/4"
10	20	5/16"
12	24	3/8"
14 & 16	30	1/2"
18	36	1/2"
24	36	1/2"
30	54	1/2"
36	54	1/2"
42	66	SEE TABLE "B"
48	72	-
54	78	-
60	84	-
66	96	-
72	108	-
84	120	-
96	144	-

TABLE "B" GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES									
NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET) 2-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45
48	12	12	12	12	12	12	12	12	10
54	12	12	12	12	12	12	12	10	8
60	12	12	12	12	12	12	12	8	7
66	12	12	12	12	12	10	8	8	5
72	12	12	12	12	12	10	8	7	5
78	12	12	12	12	10	8	7	5	5
84	12	12	12	10	10	8	5	5	5
96	12	10	10	10	10	8	5	5	5
108	10	10	10	10	8	7	5	5	5
120	10	10	10	8	8	7	5	5	3
144	8	8	8	8	5	5	3	1	1

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

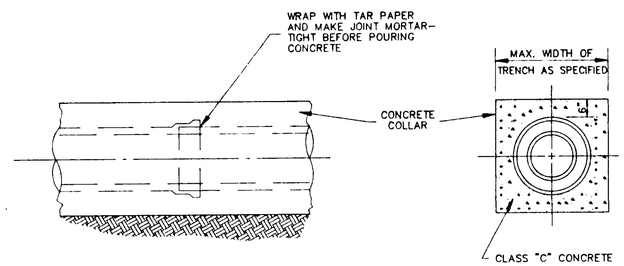
CASING PIPE

SIZE AND THICKNESS OF PIPE FOR RAILRAOD & HIGHWAY CROSSING



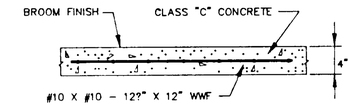
TYPICAL DETAIL OF CONCRETE COLLAR

N.T.S.

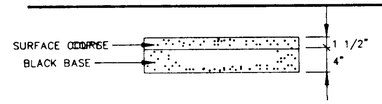


TYPICAL DETAIL OF CONCRETE ENCASEMENT

N.T.S.

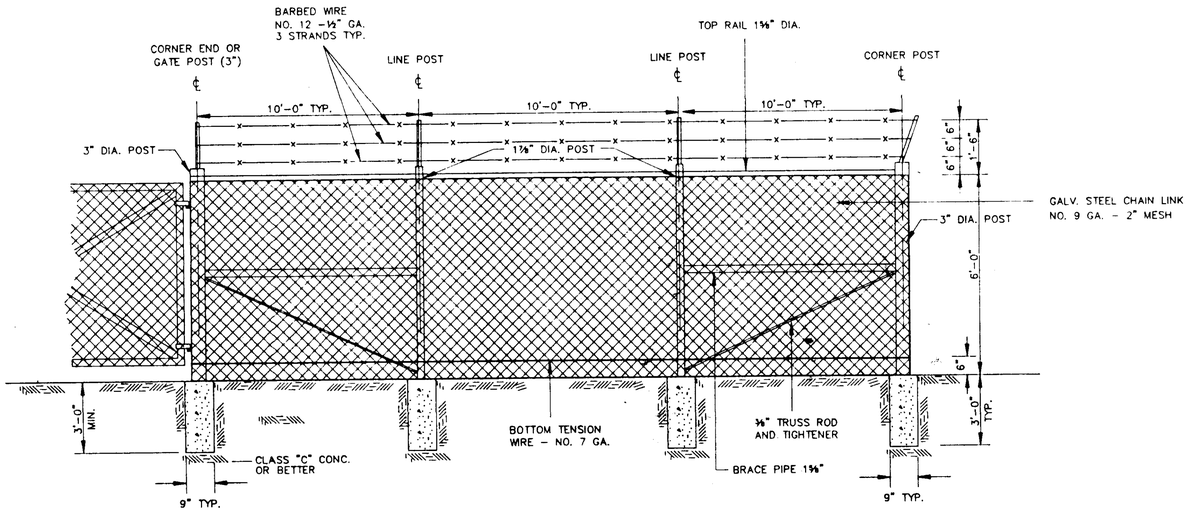


TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR

TYPICAL GRAVEL DRIVEWAY REPAIR



CHAIN LINK FENCE DETAIL

N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

DSGN:		THE CITY OF RIDGELAND	DRAWING NO.
DRWN:			
CHKD:			OF
SCALE:			