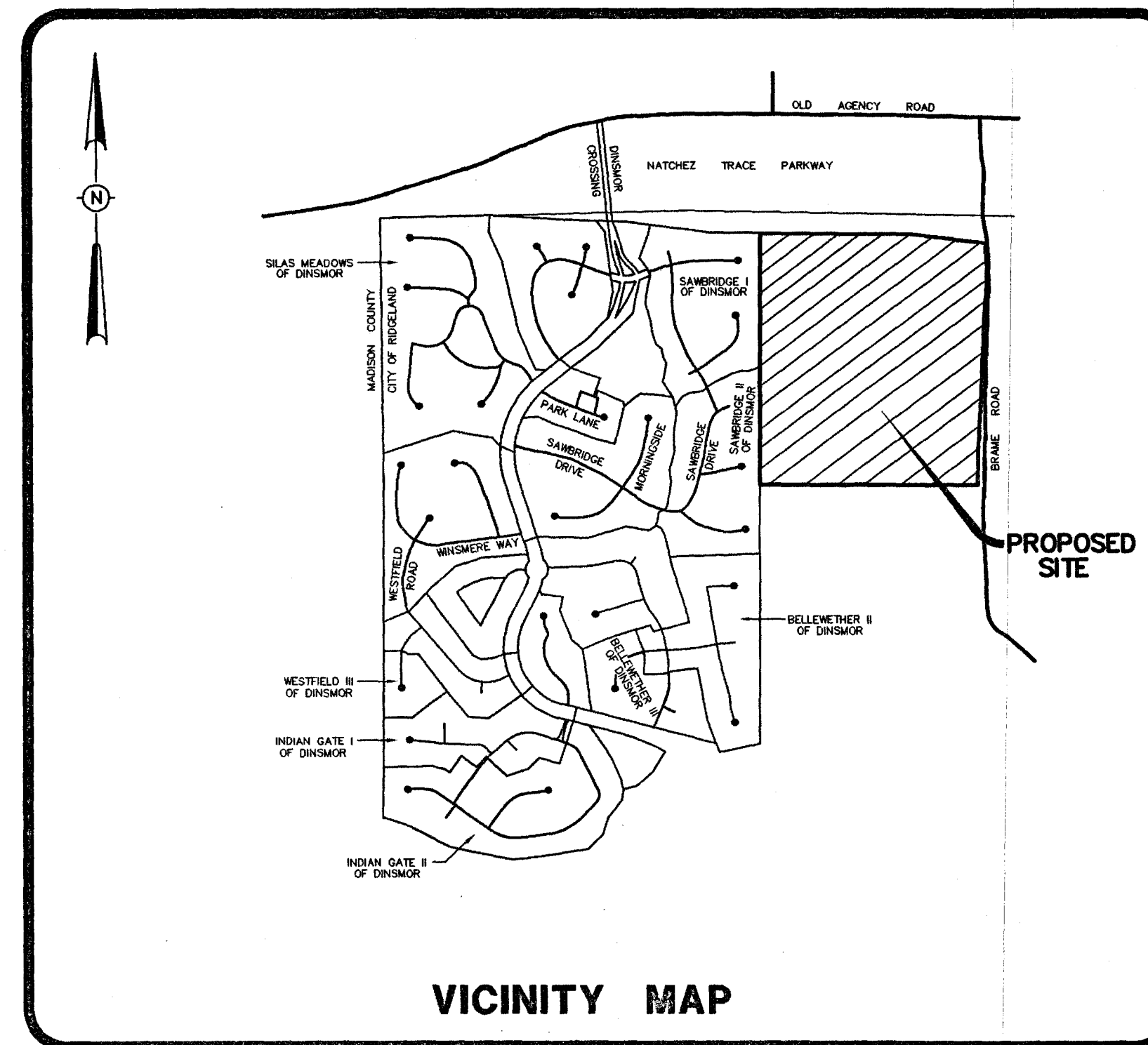


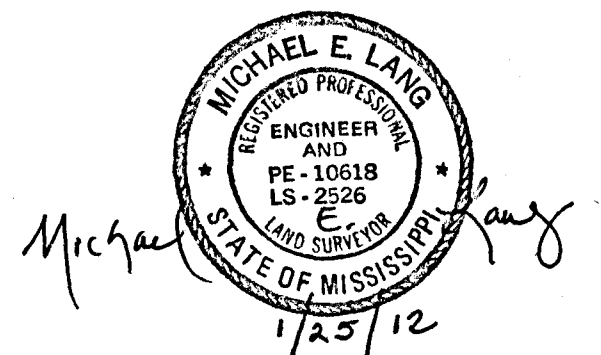
# RECORD DRAWINGS FOR GREENWOOD PLANTATION



VICINITY MAP

### DRAWING INDEX

- 1 - COVER SHEET
- 2 - GEOMETRIC LAYOUT
- 3 - WATER AND SEWER LAYOUT
- 3A- AS-BUILT WATER AND SEWER LAYOUT
- 4 - DRAINAGE AND GRADING LAYOUT
- 5 - EROSION, SEDIMENT AND STORM WATER CONTROL PLAN
- 6 - PLAN AND PROFILE - GREENWOOD LANE (STA. 1+00 TO STA. 16+00)
- 7 - PLAN AND PROFILE - GREENWOOD LANE (STA. 16+00 TO STA. 31+00)
- 8 - PLAN AND PROFILE - GREENWOOD LANE (STA. 31+00 TO STA. 46+25.03)
- 9 - PLAN AND PROFILE - SANITARY SEWER LINES "A" AND "B"
- 10 - STANDARD DETAIL
- 11 - STANDARD DETAIL
- 12 - STANDARD DETAIL
- 13 - STANDARD DETAIL



DRAWING NO. GP-CVR

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

CLIENT  
**MARK S. JORDAN COMPANIES, INC.**  
POST OFFICE BOX 328  
MADISON, MISSISSIPPI 39130  
TELEPHONE NUMBER (601) 856-0009

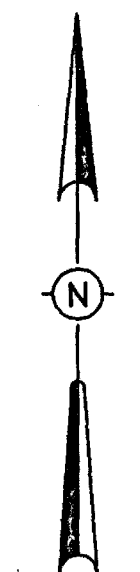
LOCATION  
SITUATED IN THE  
NORTHWEST 1/4 OF SECTION 25,  
TOWNSHIP 7 NORTH - RANGE 1 EAST,  
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

DATE	REVISION	BY	DRAWN BY: D.L.M.
			DATE: 12/12/10
			SCALE: 1"=100'
			BOOK: PAGE:
			PROJECT NO.: 00-11

SHEET

1

PWP-00-11



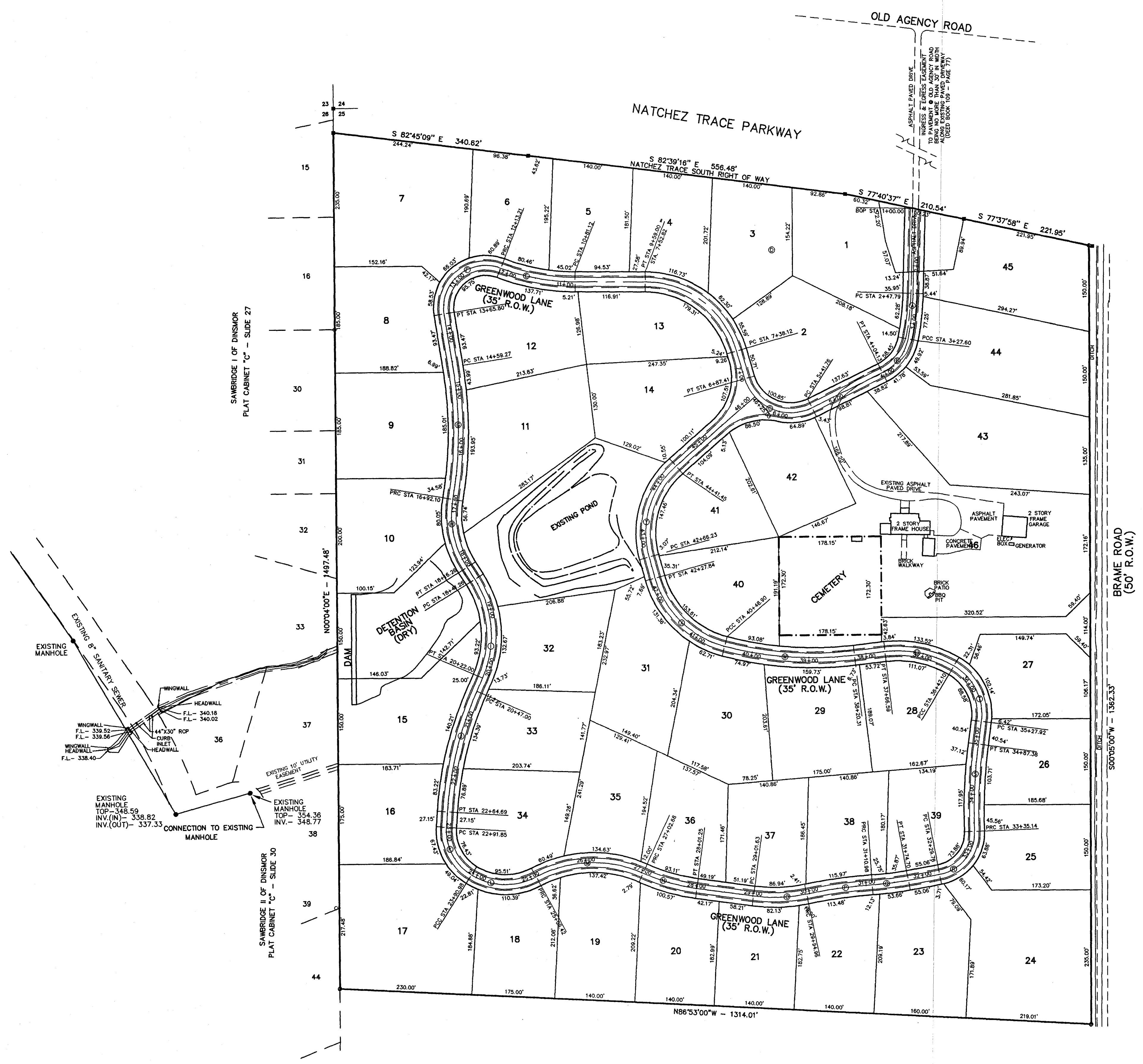
GRAPHIC SCALE  
 100 0 50 100  
 ( IN FEET )  
 1 inch = 100 ft.

**CENTERLINE CURVE DATA**

① Δ = 09°11'17"	② Δ = 52°21'31"	③ Δ = 100°22'50"	④ Δ = 77°16'55"	⑤ Δ = 24°39'42"
D = 12.18808'	D = 88.41889'	D = 88.91444'	D = 35.04917'	D = 15.83261'
R = 470.29'	R = 83.74'	R = 83.14'	R = 183.47'	R = 361.74'
T = 12.85'	T = 17.45'	T = 45.00'	T = 100.66'	T = 75.90'
L = 79.81'	L = 76.53'	L = 145.66'	L = 220.50'	L = 155.70'
⑥ Δ = 120°13'39"	⑦ Δ = 18°37'42"	⑧ Δ = 41°52'22"	⑨ Δ = 58°02'07"	⑩ Δ = 19°54'28"
D = 78.78917'	D = 08.00083'	D = 33.72444'	D = 31.00369'	D = 09.14472'
R = 23.75'	R = 718.11'	R = 169.89'	R = 184.60'	R = 626.55'
T = 128.83'	T = 117.45'	T = 85.00'	T = 98.33'	T = 109.69'
L = 152.59'	L = 332.83'	L = 124.16'	L = 180.14'	L = 217.69'
⑪ Δ = 61°42'27"	⑫ Δ = 60°12'39"	⑬ Δ = 82°39'30"	⑭ Δ = 18°47'31"	⑮ Δ = 19°33'37"
D = 62.31500'	D = 50.83639'	D = 27.24700'	D = 17.03500'	D = 25.95639'
R = 91.95'	R = 112.71'	R = 216.26'	R = 336.34'	R = 223.40'
T = 66.50'	T = 45.35'	T = 104.06'	T = 48.84'	T = 44.13'
L = 99.13'	L = 118.44'	L = 193.25'	L = 98.57'	L = 93.34'
⑯ Δ = 08°00'21"	⑰ Δ = 06°50'32"	⑱ Δ = 81°28'19"	⑲ Δ = 09°31'11"	⑳ Δ = 66°44'07"
D = 06.90056'	D = 10.73661'	D = 77.31306'	D = 08.25333'	D = 58.44776'
R = 500.33'	R = 533.94'	R = 74.11'	R = 916.20'	R = 89.03'
T = 58.33'	T = 81.90'	T = 63.82'	T = 78.29'	T = 84.36'
L = 116.02'	L = 63.72'	L = 105.36'	L = 162.24'	L = 114.19'
㉑ Δ = 37°24'48"	㉒ Δ = 21°35'55"	㉓ Δ = 59°34'58"	㉔ Δ = 64°27'58"	
D = 30.05139'	D = 9.44500'	D = 33.28944'	D = 36.78639'	
R = 190.69'	R = 606.62'	R = 57.11'	R = 195.79'	
T = 14.96'	T = 115.67'	T = 86.19'	T = 85.19'	
L = 124.50'	L = 228.59'	L = 178.24'	L = 175.22'	

**CENTERLINE INTERSECTIONS**  
 (1) STA. 6+51.19 GREENWOOD LANE = STA. 46+25.03 GREENWOOD LANE

NOTES:  
 1. AREA = 43.475 ACRES OF LAND (MORE OR LESS)  
 2. DIMENSIONS ALONG CURVES ARE CHORD DISTANCES.  
 3. ALL STREETS ARE TO BE PRIVATE.



**H D LANG AND ASSOCIATES, INC.**

POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
 601-362-4886

PROJECT

GREENWOOD PLANTATION

DESCRIPTION

GEOMETRIC LAYOUT

DATE

12-10-01

REVISION

RECORD DRAWINGS

BY

D.L.M.

DRAWN BY: D.L.M.

DATE: 12-21-00

SCALE: 1"=100'

BOOK: PAGE:

PROJECT NO.: 00-181

SHEET

2

DRAWING NO. GP-GEO

DRAWING NO. GP-600

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

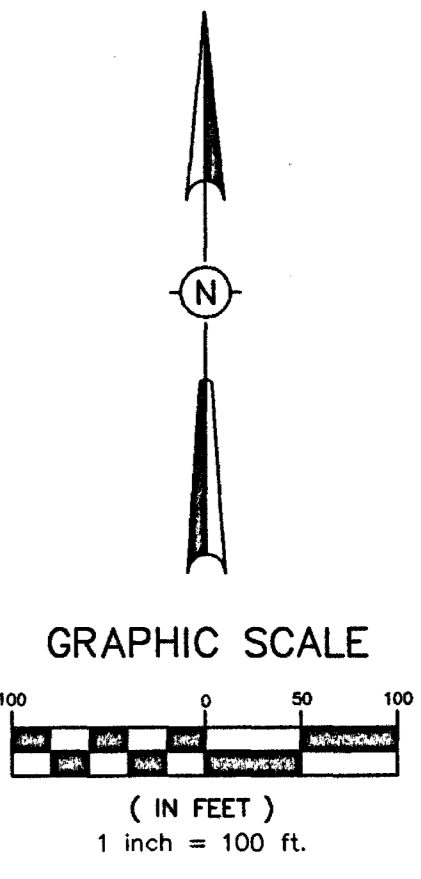
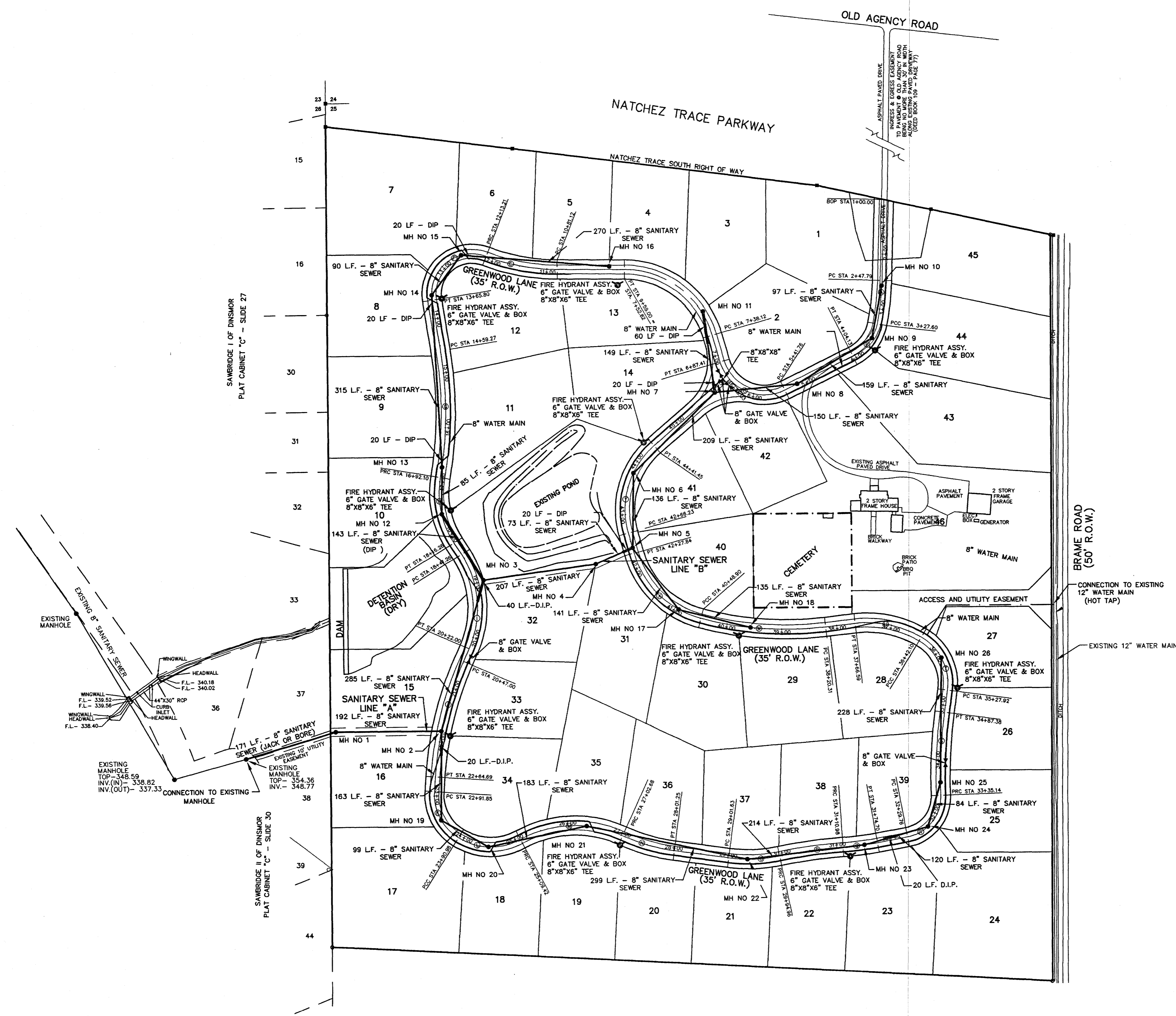
PROJECT  
GREENWOOD PLANTATION

DESCRIPTION  
SEWER AND WATER LAYOUT

DATE	REVISION	BY
12-10-01	RECORD DRAWINGS	D.L.M.

DRAWN BY: D.L.M.  
 DATE: 12-21-00  
 SCALE: 1"=100'  
 BOOK: PAGE:  
 PROJECT NO.: 00-181

SHEET  
3

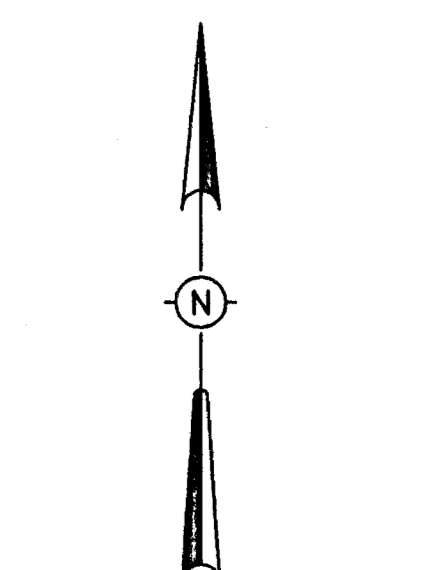


**CENTERLINE CURVE DATA**

① Δ = 09°11'17"	② Δ = 52°11'31"	③ Δ = 100°22'50"	④ Δ = 77°16'55"	⑤ Δ = 24°39'42"
D = 15.18886'	D = 68.41889'	D = 98.81444'	D = 35.04917'	D = 15.83806'
R = 470.059'	R = 83.74'	R = 83.14'	R = 163.47'	R = 361.74'
T = 43.00'	T = 41.17'	T = 169.89'	T = 184.90'	T = 626.56'
L = 79.81'	L = 76.53'	L = 146.66'	L = 220.80'	L = 185.70'
⑥ Δ = 120°13'36"	⑦ Δ = 18°37'42"	⑧ Δ = 41°52'23"	⑨ Δ = 58°02'07"	⑩ Δ = 19°54'26"
D = 78.78917'	D = 08.00283'	D = 33.72444'	D = 31.00389'	D = 08.14472'
R = 75.77'	R = 7.81'	R = 169.89'	R = 184.90'	R = 626.56'
T = 72.57'	T = 117.41'	T = 85.07'	T = 98.33'	T = 109.89'
L = 152.59'	L = 232.83'	L = 124.16'	L = 180.74'	L = 217.69'
⑪ Δ = 61°46'27"	⑫ Δ = 60°12'39"	⑬ Δ = 52°39'30"	⑭ Δ = 16°47'31"	⑮ Δ = 19°53'37"
D = 43.31509'	D = 50.83839'	D = 27.24700'	D = 17.03500'	D = 20.36639'
R = 81.95'	R = 112.71'	R = 210.78'	R = 336.34'	R = 273.40'
T = 48.07'	T = 65.30'	T = 104.45'	T = 48.54'	T = 47.51'
L = 98.13'	L = 118.44'	L = 193.28'	L = 98.57'	L = 83.34'
⑯ Δ = 09°00'21"	⑰ Δ = 06°50'32"	⑱ Δ = 81°28'19"	⑲ Δ = 09°31'11"	⑳ Δ = 66°44'07"
D = 08.90256'	D = 10.73861'	D = 17.31306'	D = 06.25333'	D = 58.44778'
R = 83.03'	R = 63.54'	R = 74.81'	R = 918.29'	R = 88.07'
T = 58.10'	T = 37.80'	T = 63.80'	T = 78.29'	T = 64.26'
L = 118.02'	L = 63.72'	L = 105.58'	L = 152.24'	L = 114.18'
㉑ Δ = 37°24'48"	㉒ Δ = 21°36'25"	㉓ Δ = 50°34'08"	㉔ Δ = 64°27'29"	
D = 30.09339'	D = 8.44500'	D = 13.28944'	D = 36.78639'	
R = 190.66'	R = 608.69'	R = 172.11'	R = 185.75'	
T = 64.95'	T = 115.67'	T = 48.91'	T = 98.16'	
L = 124.50'	L = 228.59'	L = 178.94'	L = 175.32'	

**CENTERLINE INTERSECTIONS**  
 (1) STA. 6+51.19 GREENWOOD LANE = STA. 46+25.03 GREENWOOD LANE





GRAPHIC SCALE  
( IN FEET )  
1 inch = 100 ft.

**CENTERLINE CURVE DATA**

① Δ = 09°11'37"	② Δ = 52°31'31"	③ Δ = 100°22'50"	④ Δ = 77°16'55"	⑤ Δ = 54°39'42"
D = 12.18899'	D = 68.91899'	D = 68.91444'	D = 35.04917'	D = 15.83961'
R = 470.09'	R = 83.74'	R = 83.14'	R = 183.47'	R = 861.74'
L = 40.00'	L = 41.17'	L = 99.75'	L = 220.50'	L = 156.06'
T = 79.81'	T = 76.53'	T = 145.66'	T = 145.66'	T = 155.70'

⑥ Δ = 120°13'39"	⑦ Δ = 18°37'42"	⑧ Δ = 41°52'22"	⑨ Δ = 56°02'07"	⑩ Δ = 19°54'26"
D = 78.78917'	D = 98.00083'	D = 33.72444'	D = 31.00389'	D = 98.44472'
R = 72.72'	R = 718.13'	R = 189.09'	R = 184.80'	R = 626.55'
L = 125.53'	L = 117.40'	L = 45.00'	L = 88.374'	L = 109.85'
T = 124.56'	T = 235.83'	T = 124.16'	T = 182.374'	T = 177.89'

⑪ Δ = 81°40'37"	⑫ Δ = 60°12'38"	⑬ Δ = 52°38'30"	⑭ Δ = 16°47'31"	⑮ Δ = 18°33'37"
D = 62.31500'	D = 90.83639'	D = 27.24780'	D = 17.03500'	D = 20.95639'
R = 81.85'	R = 112.71'	R = 210.28'	R = 336.34'	R = 271.40'
L = 55.00'	L = 65.50'	L = 104.56'	L = 48.84'	L = 83.34'
T = 99.13'	T = 118.44'	T = 193.26'	T = 98.57'	T = 83.34'

⑯ Δ = 08°00'21"	⑰ Δ = 08°50'32"	⑱ Δ = 81°28'19"	⑲ Δ = 09°31'11"	⑳ Δ = 68°44'07"
D = 06.89256'	D = 10.76681'	D = 77.31306'	D = 06.25333'	D = 38.44778'
R = 83.33'	R = 53.34'	R = 73.13'	R = 815.29'	R = 98.03'
L = 58.10'	L = 31.80'	L = 83.13'	L = 78.29'	L = 54.50'
T = 116.02'	T = 63.72'	T = 106.30'	T = 152.24'	T = 114.18'

㉑ Δ = 37°24'48"	㉒ Δ = 21°32'25"	㉓ Δ = 59°34'08"	㉔ Δ = 64°27'29"
D = 30.05139'	D = 8.44500'	D = 33.28944'	D = 36.78839'
R = 193.69'	R = 606.60'	R = 172.11'	R = 154.75'
L = 64.69'	L = 115.67'	L = 86.61'	L = 88.19'
T = 58.10'	T = 228.59'	T = 178.94'	T = 175.22'

**CENTERLINE INTERSECTIONS**  
(1) STA. 64+51.19 GREENWOOD LANE = STA. 46+25.03 GREENWOOD LANE

DRAWING NO. 09-C60

# H D LANG AND ASSOCIATES, INC.

POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
601-362-4886

PROJECT

GREENWOOD PLANTATION

DESCRIPTION

AS-BUILT SEWER AND WATER LAYOUT

DATE

12-10-01

REVISION

RECORD DRAWINGS

BY

D.L.M.

DRAWN BY: D.L.M.

DATE: 12-21-00

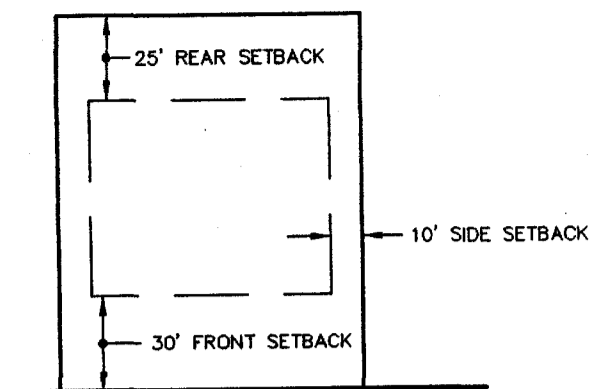
SCALE: 1"=100'

BOOK: PAGE:

PROJECT NO.: 00-181

SHEET

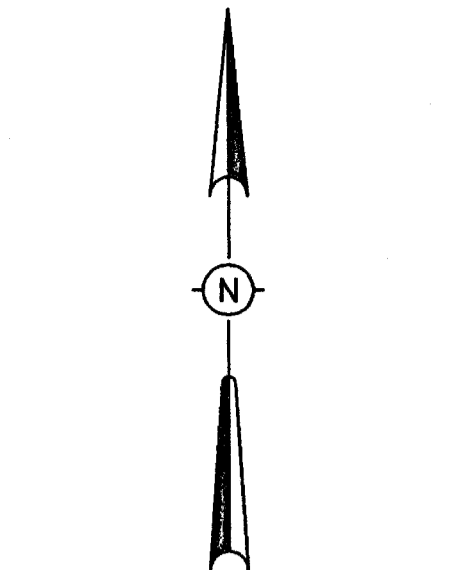
3A



TYPICAL LOT DETAIL

**STREET LEGEND**  
 --- CENTERLINE ROAD  
 --- EDGE PAVEMENT  
 --- SHOULDER ROAD  
 --- CENTERLINE DITCH

⊙ TBM - FINISH FLOOR OF EXISTING 2 STORY FRAME RESIDENCE. ELEV. 381.78 MSL



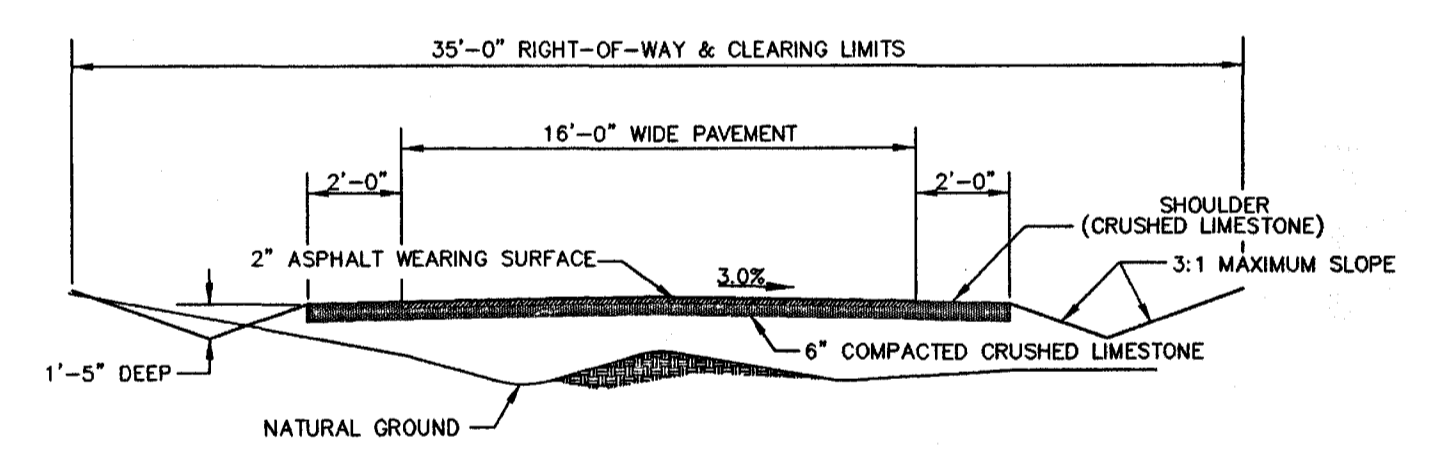
GRAPHIC SCALE  
 (IN FEET)  
 1 inch = 100 ft.

**CENTERLINE CURVE DATA**

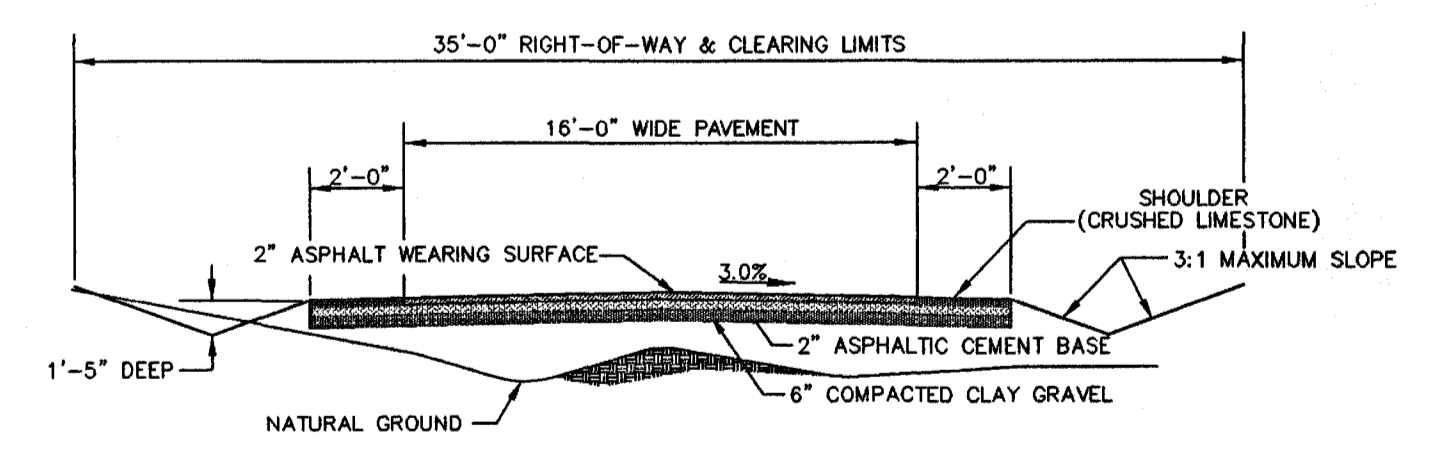
① Δ = 09°11'17"	② Δ = 52°31'31"	③ Δ = 100°22'50"	④ Δ = 77°16'55"	⑤ Δ = 24°39'42"
D = 12.18006'	D = 68.41889'	D = 68.41444'	D = 35.04871'	D = 15.33881'
R = 470.09'	R = 83.14'	R = 83.14'	R = 183.47'	R = 361.74'
T = 43.03'	T = 41.17'	T = 99.35'	T = 130.65'	T = 78.50'
L = 78.81'	L = 78.53'	L = 145.66'	L = 220.55'	L = 155.70'
⑥ Δ = 120°13'38"	⑦ Δ = 183°7'49"	⑧ Δ = 41°52'21"	⑨ Δ = 58°02'07"	⑩ Δ = 19°54'28"
D = 78.78917'	D = 68.00083'	D = 33.72444'	D = 31.00389'	D = 09.14472'
R = 72.72'	R = 117.45'	R = 169.89'	R = 184.80'	R = 828.95'
T = 28.25'	T = 232.83'	T = 117.45'	T = 85.00'	T = 109.95'
L = 152.59'	L = 232.83'	L = 124.16'	L = 180.74'	L = 217.89'
⑪ Δ = 81°46'27"	⑫ Δ = 60°12'38"	⑬ Δ = 52°39'30"	⑭ Δ = 16°47'31"	⑮ Δ = 19°33'37"
D = 62.31500'	D = 60.83839'	D = 27.24750'	D = 17.03000'	D = 20.96639'
R = 81.85'	R = 112.71'	R = 210.28'	R = 339.34'	R = 273.40'
T = 45.02'	T = 45.34'	T = 74.11'	T = 918.26'	T = 98.07'
L = 99.13'	L = 118.44'	L = 193.28'	L = 98.57'	L = 93.34'
⑯ Δ = 08°02'21"	⑰ Δ = 04°50'32"	⑱ Δ = 81°28'19"	⑲ Δ = 09°31'11"	⑳ Δ = 66°44'07"
D = 66.90056'	D = 10.73861'	D = 77.31306'	D = 66.25333'	D = 58.44778'
R = 430.32'	R = 63.54'	R = 74.11'	R = 918.26'	R = 98.07'
T = 58.10'	T = 31.95'	T = 63.52'	T = 76.29'	T = 84.58'
L = 116.02'	L = 63.72'	L = 105.38'	L = 152.24'	L = 114.18'
㉑ Δ = 37°24'48"	㉒ Δ = 21°35'25"	㉓ Δ = 58°54'08"	㉔ Δ = 64°27'29"	
D = 30.09139'	D = 8.44500'	D = 31.28844'	D = 36.78639'	
R = 180.65'	R = 606.67'	R = 172.11'	R = 155.75'	
T = 64.56'	T = 115.67'	T = 98.51'	T = 98.19'	
L = 124.50'	L = 228.59'	L = 178.94'	L = 175.22'	

**CENTERLINE INTERSECTIONS**

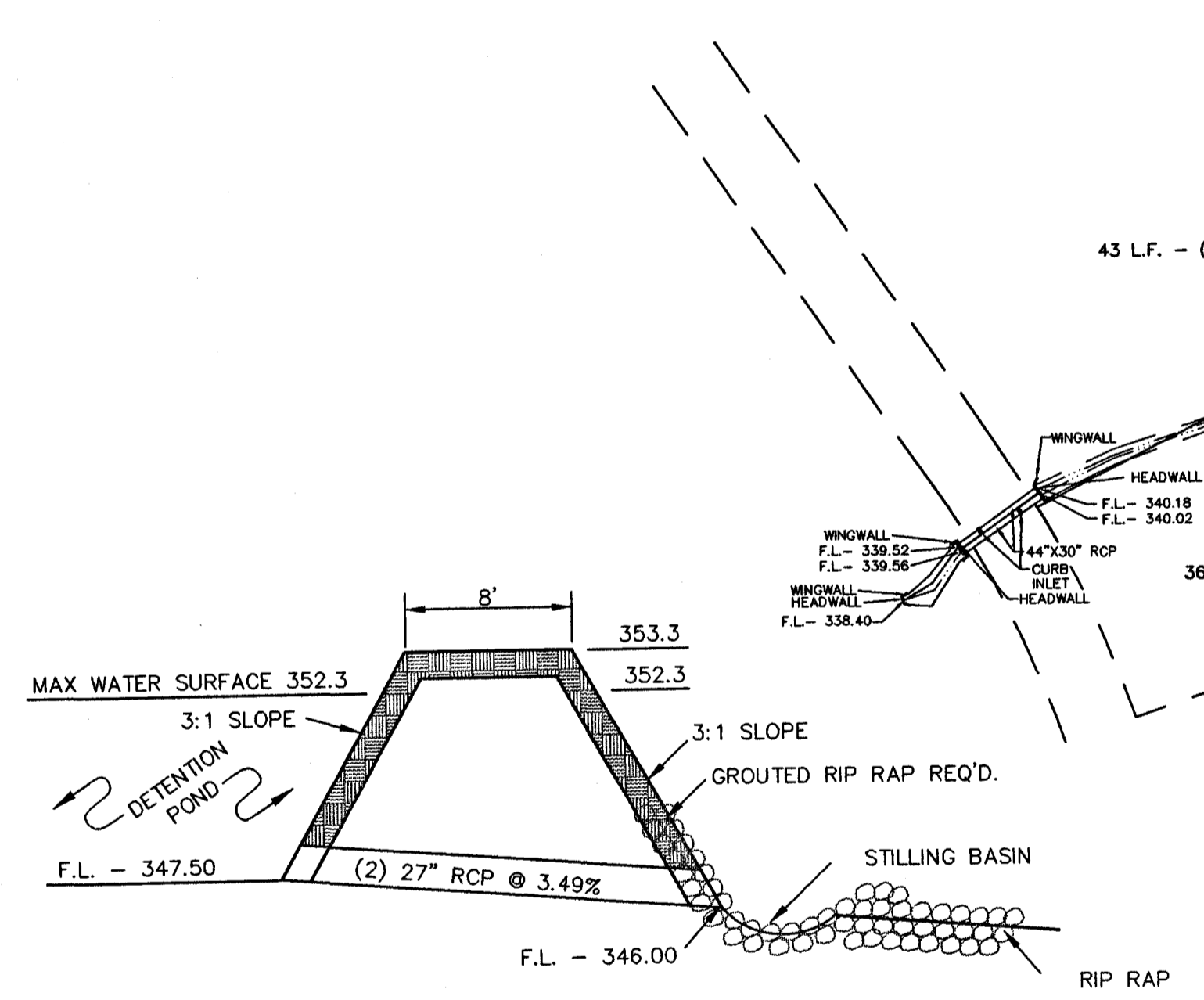
(1) STA. 6+51.19 GREENWOOD LANE = STA. 45+25.03 GREENWOOD LANE



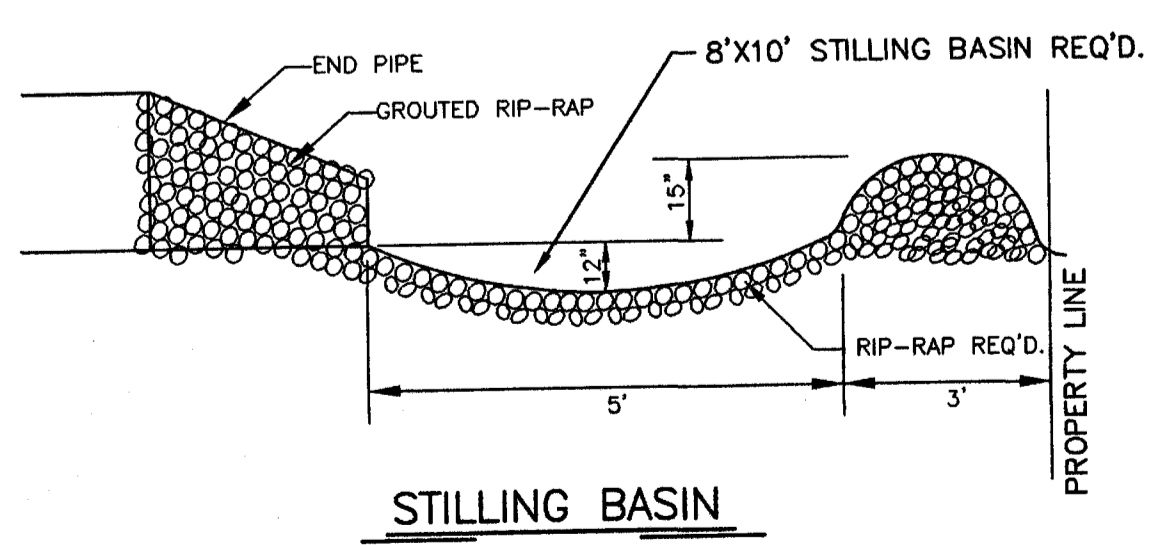
TYPICAL STREET SECTION (ALTERNATE NO. 1)  
 2" WEARING SURFACE WITH 6" COMPACTED CRUSHED LIMESTONE BASE AND SHOULDER



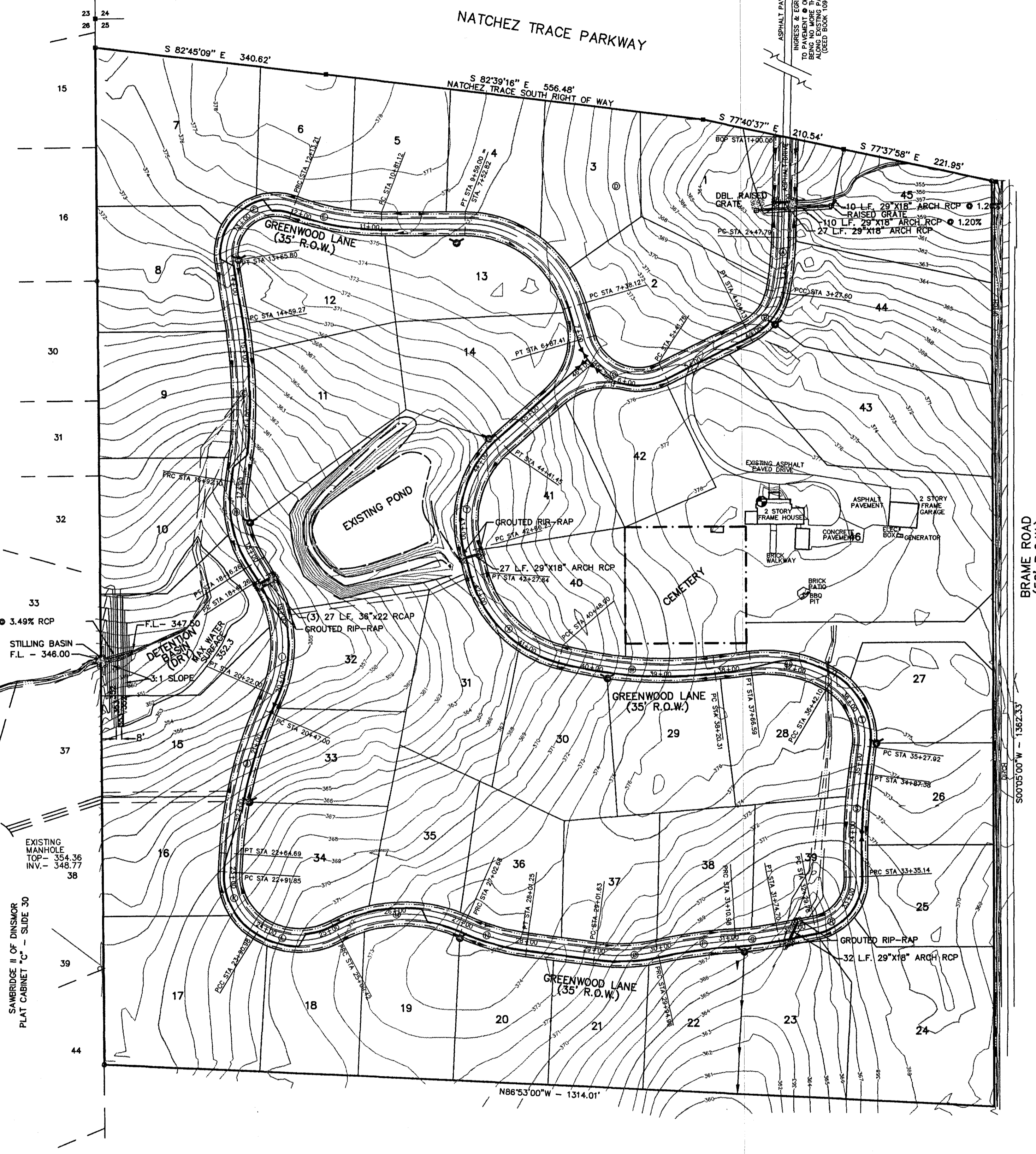
TYPICAL STREET SECTION (ALTERNATE NO. 2)  
 2" WEARING SURFACE WITH 2" ASPHALTIC BASE COURSE AND 6" COMPACTED CLAY GRAVEL



CROSS SECTION THROUGH DAM @ OUTLET PIPE



STILLING BASIN



DRAWING NO. GP-GE0

**H D LANG AND ASSOCIATES, INC.**

POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT

GREENWOOD PLANTATION

DESCRIPTION

DRAINAGE AND GRADING LAYOUT

DATE

12-10-01

REVISION

RECORD DRAWINGS

BY

D.L.M.

DRAWN BY: D.L.M.

DATE: 12-21-00

SCALE: 1"=100'

BOOK: PAGE:

PROJECT NO.: 00-181

SHEET

4



**SYMBOLS FOR EROSION AND SEDIMENT CONTROL PRACTICES**

**TEMPORARY PRACTICES**

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

**PERMANENT PRACTICES**

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

**VEGETATIVE PRACTICES**

- MULCHING
- PERMANENT SEEDING
- SODDING
- TEMPORARY SEEDING
- TOPSOILING
- TREE PRESERVATION AND PROTECTION
- TREES, SHRUBS, VINES AND GROUND COVER
- VEGETATIVE DUNE STABILIZATION

**COMPOSITE PRACTICES**

- VEGETATIVE STREAMBANK STAB.
- STRUCTURAL STREAMBANK STAB.
- 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. **PERMANENT SEEDING**  
ALL DISTURBED AREAS WILL BE PERMANENTLY SEEDING 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 SEEDING AREAS WILL BE FERTILIZED AND RESEEDING 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, SEEDING AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
  3. STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.

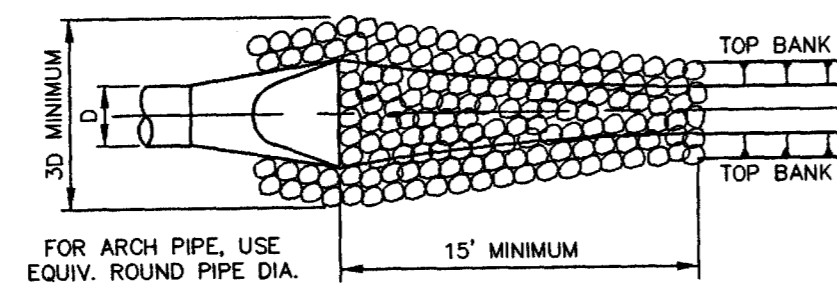
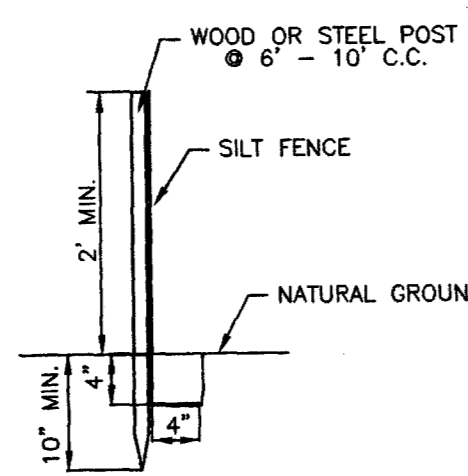
**TEMPORARY SEEDING**

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.

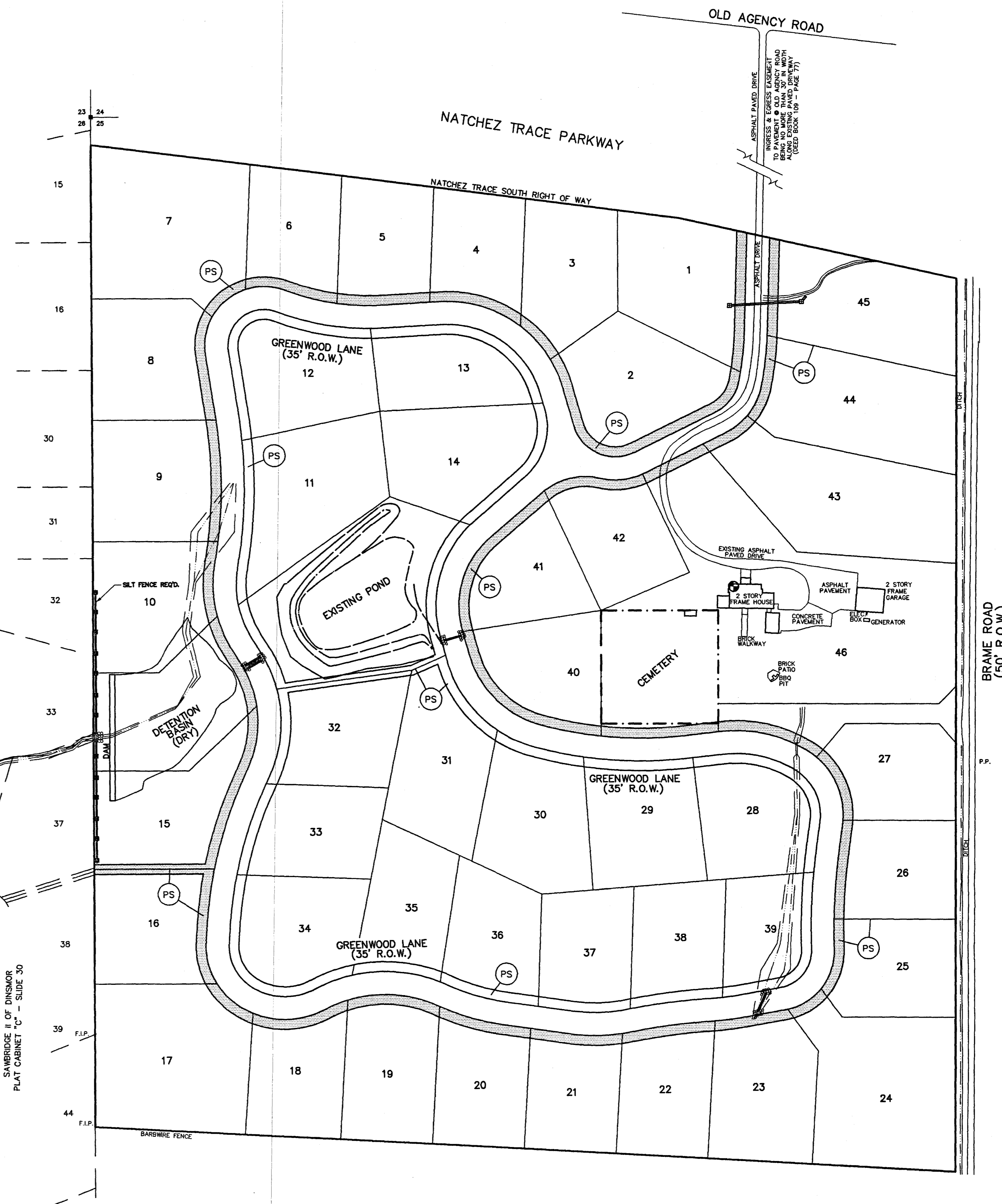
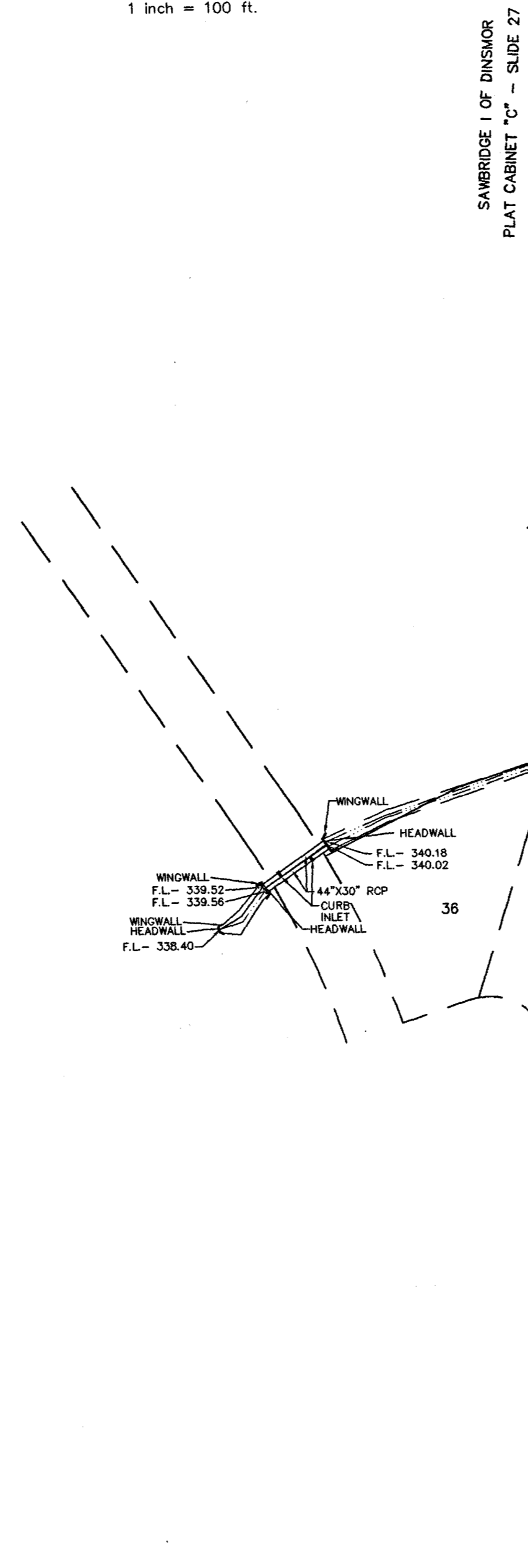
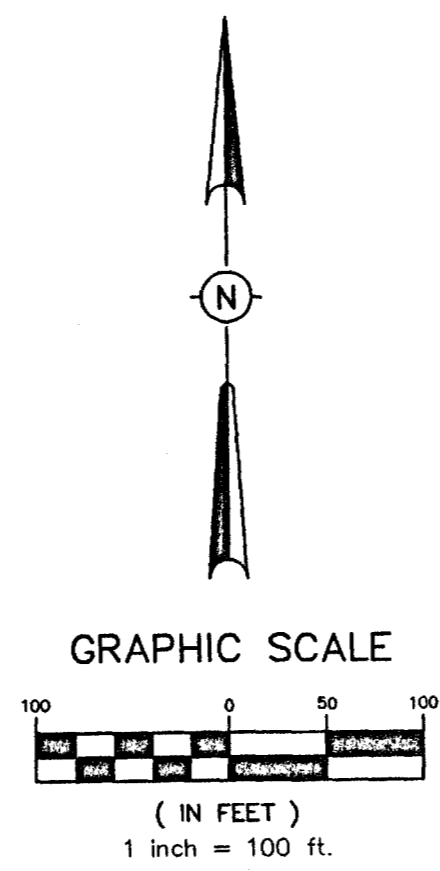
ALL SLOPES SHALL RECEIVE TEMPORARY SEEDING AND FERTILIZER AND STRAW MULCH WITH ASPHALT TACK AT 1.5 TONS MULCH/AC. AND 100 GAL. EMULSIFIED ASPHALT, GRADE SS-1 AT 100 GAL./TON MULCH.

**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. GP-EC

**H D LANG AND ASSOCIATES, INC.**

POST OFFICE BOX 16085

JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT

GREENWOOD PLANTATION

DESCRIPTION

EROSION, SEDIMENT AND STORMWATER CONTROL PLAN

DATE

12-10-01

REVISION

RECORD DRAWINGS

BY

D.L.M.

DRAWN BY: D.L.M.

DATE: 12-20-00

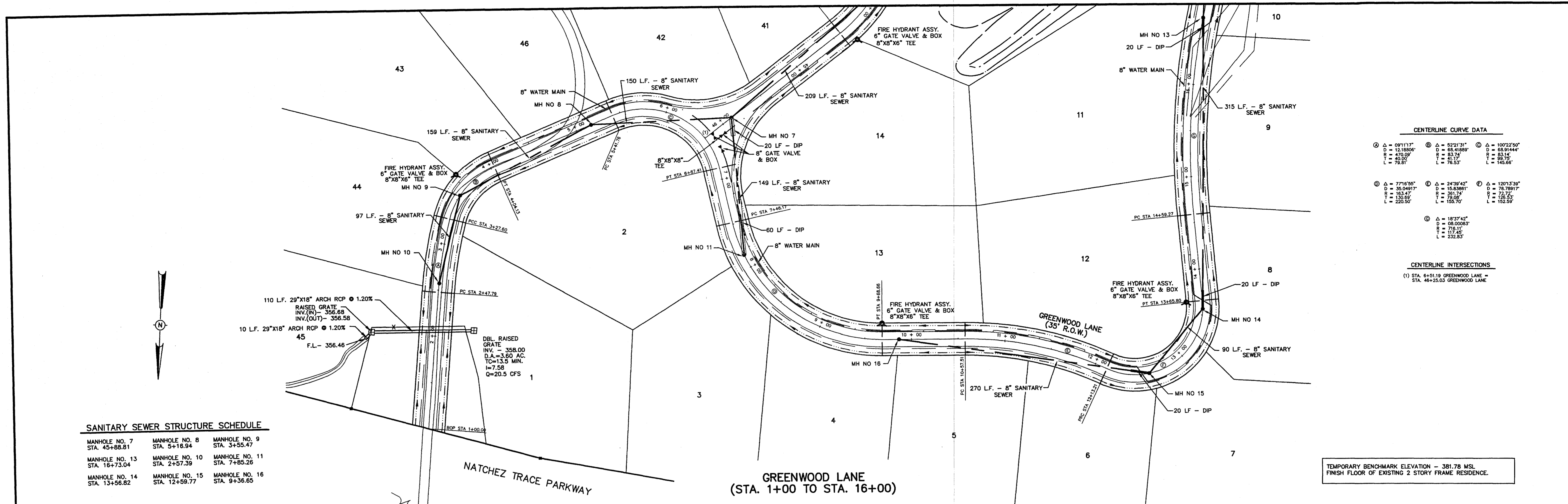
SCALE: 1"=100'

BOOK: PAGE:

PROJECT NO.: 00-181

SHEET

5



**CENTERLINE CURVE DATA**

① Δ = 091°11'7"	② Δ = 52°21'31"	③ Δ = 102°23'50"
D = 1218806'	D = 6541889'	D = 6391444'
E = 470.50'	E = 51.74'	E = 83.14'
L = 79.81'	L = 76.53'	L = 89.75'
		L = 145.66'

④ Δ = 77°16'56"	⑤ Δ = 24°39'42"	⑥ Δ = 120°13'39"
D = 3504917'	D = 1538601'	D = 7878917'
E = 163.47'	E = 361.74'	E = 72.72'
L = 132.60'	L = 150.70'	L = 135.53'
		L = 152.59'

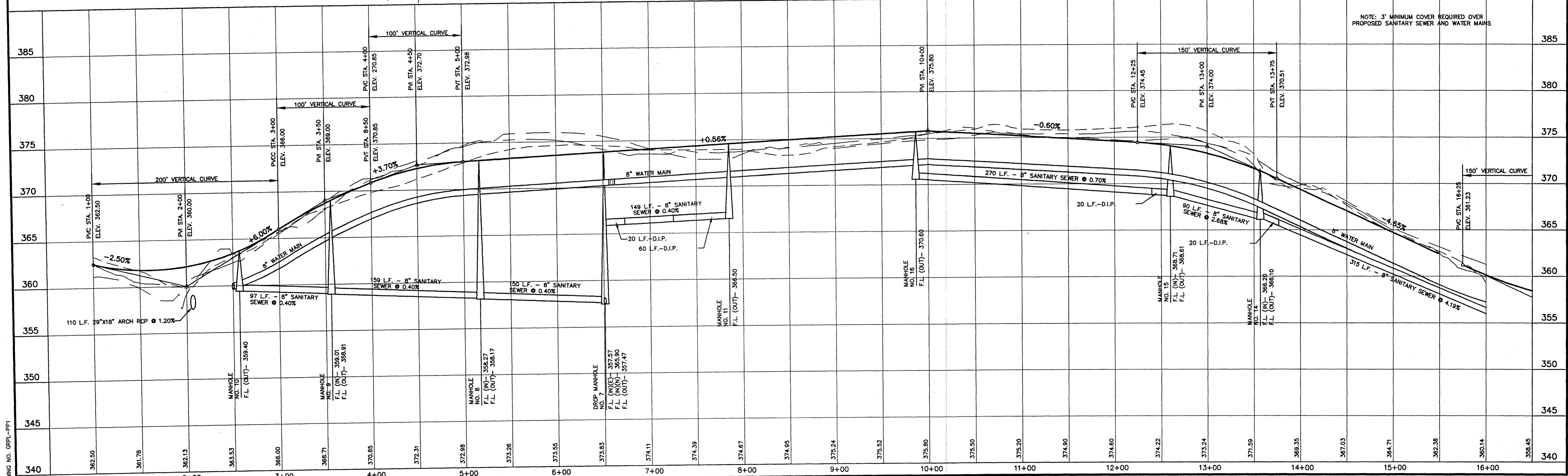
⑦ Δ = 183°42'
D = 9800083'
E = 718.11'
L = 117.45'
L = 232.83'

**CENTERLINE INTERSECTIONS**  
 (1) STA. 6+51.19 GREENWOOD LANE = STA. 46+25.03 GREENWOOD LANE

TEMPORARY BENCHMARK ELEVATION - 381.78 MSL  
 FINISH FLOOR OF EXISTING 2 STORY FRAME RESIDENCE.

**SANITARY SEWER STRUCTURE SCHEDULE**

MANHOLE NO. 7 STA. 45+88.81	MANHOLE NO. 8 STA. 5+16.94	MANHOLE NO. 9 STA. 3+55.47
MANHOLE NO. 13 STA. 16+73.04	MANHOLE NO. 10 STA. 2+57.39	MANHOLE NO. 11 STA. 7+85.26
MANHOLE NO. 14 STA. 13+56.82	MANHOLE NO. 15 STA. 12+59.77	MANHOLE NO. 16 STA. 9+36.65



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

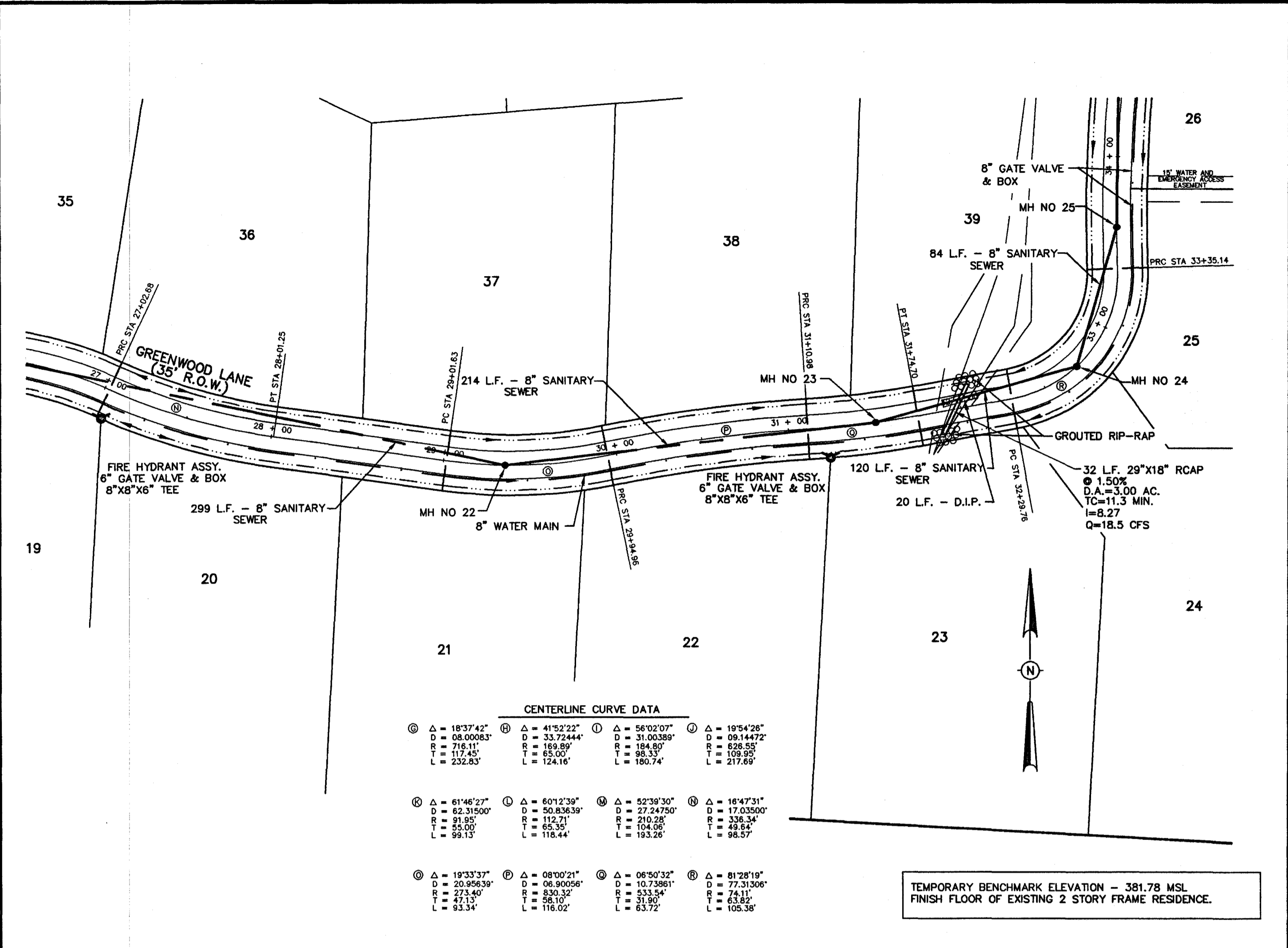
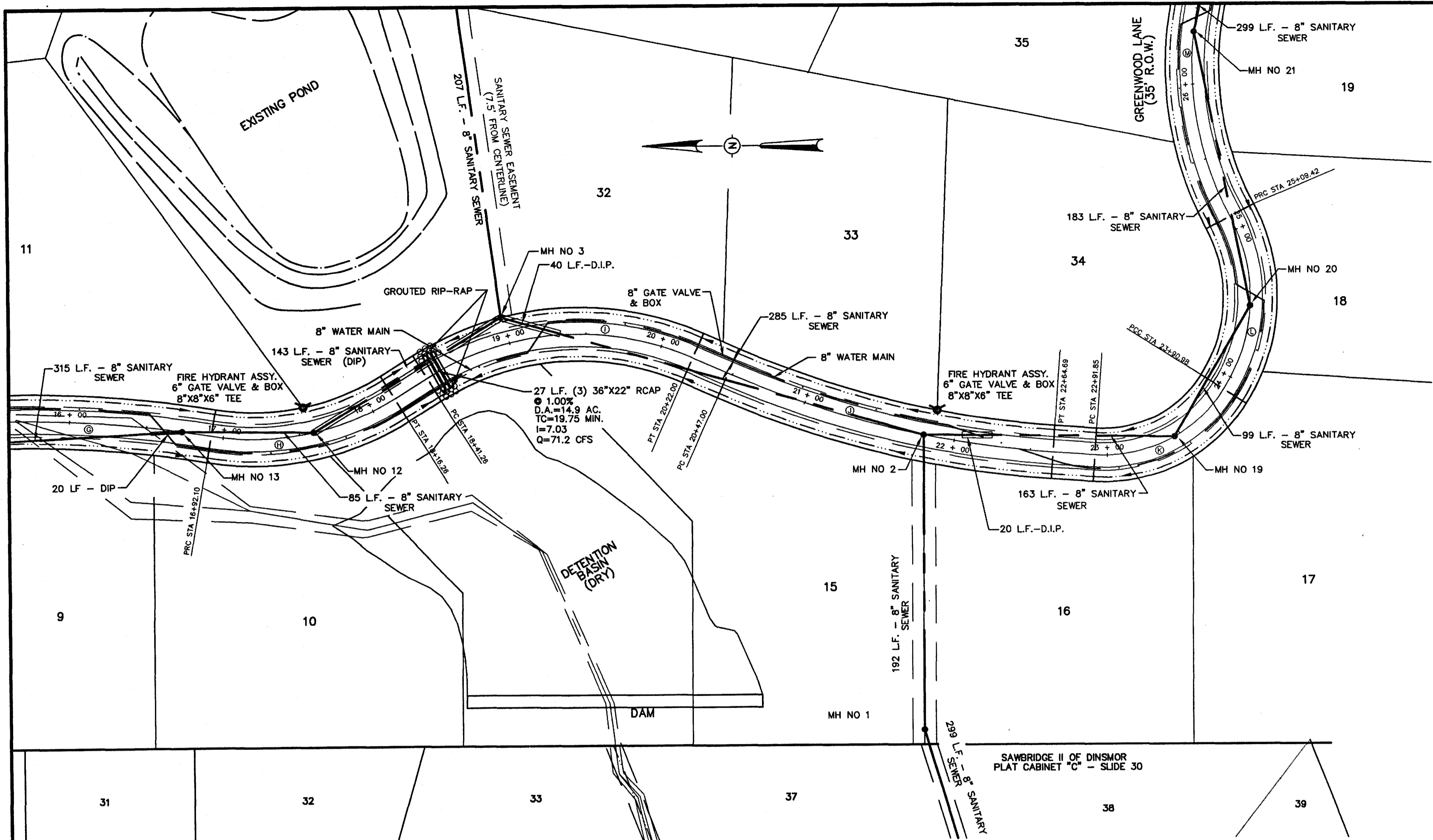
DRAWING NO. GRPL-PPT

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

PROJECT: **GREENWOOD PLANTATION**  
 DESCRIPTION: **PLAN AND PROFILE GREENWOOD LANE (STA. 1+00 TO STA. 16+00)**

DATE: 1-8-01	REVISION: RECORD DRAWINGS	BY: D.L.M.	DRAWN BY: CLS	DATE: 12-21-00	SHEET: <b>6</b>
			HORIZ.: 1"=50' / VERT.: 1"=5'		
			BOOK: PAGE:		
			PROJECT NO.: 00-181		

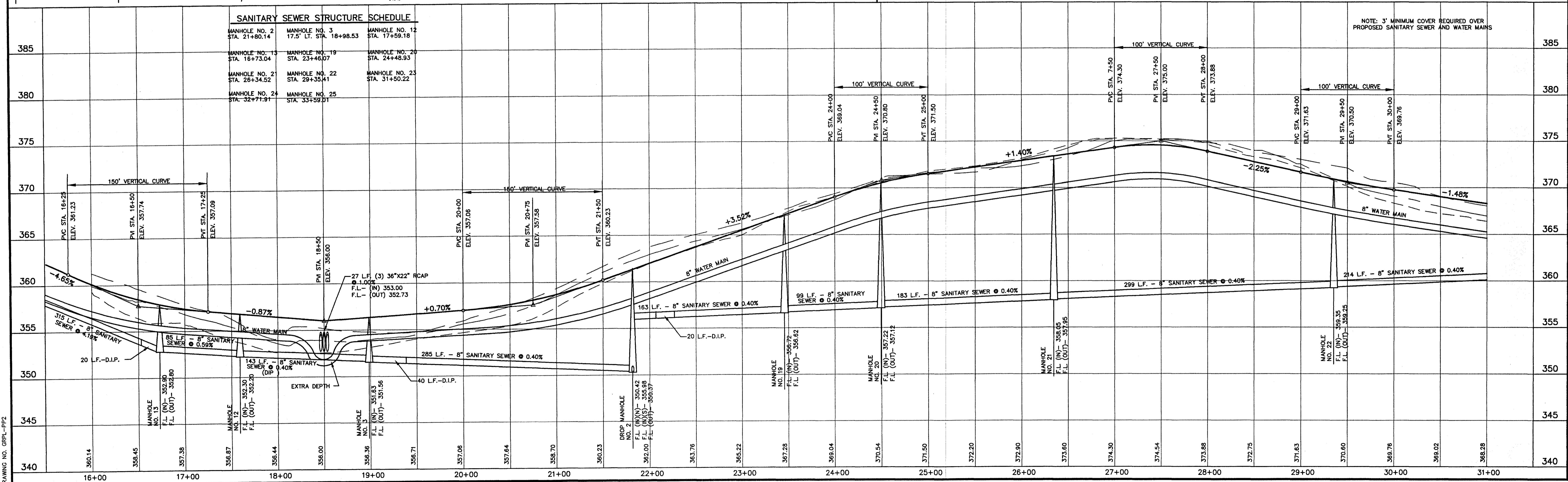




**CENTERLINE CURVE DATA**

① Δ = 1837.42° D = 08.00083' T = 719.1145' L = 232.83'	② Δ = 4152.22° D = 33.72444' T = 208.89' L = 124.16'	③ Δ = 5652.03° D = 31.00359' T = 98.159' L = 180.74'	④ Δ = 1054.08° D = 09.14472' T = 208.50' L = 217.69'
⑤ Δ = 6146.27° D = 62.31600' T = 81.85' L = 99.13'	⑥ Δ = 6012.39° D = 50.83839' T = 112.71' L = 118.44'	⑦ Δ = 5239.30° D = 22.94750' T = 210.26' L = 193.26'	⑧ Δ = 1647.31° D = 17.03500' T = 74.11' L = 98.57'
⑨ Δ = 1933.33° D = 20.69639' T = 23.46' L = 93.34'	⑩ Δ = 0800.21° D = 08.90096' T = 89.32' L = 116.02'	⑪ Δ = 0650.33° D = 10.73961' T = 23.54' L = 63.72'	⑫ Δ = 8126.18° D = 77.31306' T = 74.11' L = 103.36'

TEMPORARY BENCHMARK ELEVATION - 381.78 MSL  
FINISH FLOOR OF EXISTING 2 STORY FRAME RESIDENCE.



**SANITARY SEWER STRUCTURE SCHEDULE**

MANHOLE NO. 2 STA. 21+80.14	MANHOLE NO. 3 17.5' LT. STA. 18+98.53	MANHOLE NO. 12 STA. 17+59.18
MANHOLE NO. 13 STA. 16+73.04	MANHOLE NO. 19 STA. 23+48.07	MANHOLE NO. 20 STA. 24+48.93
MANHOLE NO. 21 STA. 26+34.52	MANHOLE NO. 22 STA. 29+35.41	MANHOLE NO. 23 STA. 31+50.22
MANHOLE NO. 24 STA. 32+71.91	MANHOLE NO. 25 STA. 33+59.01	

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



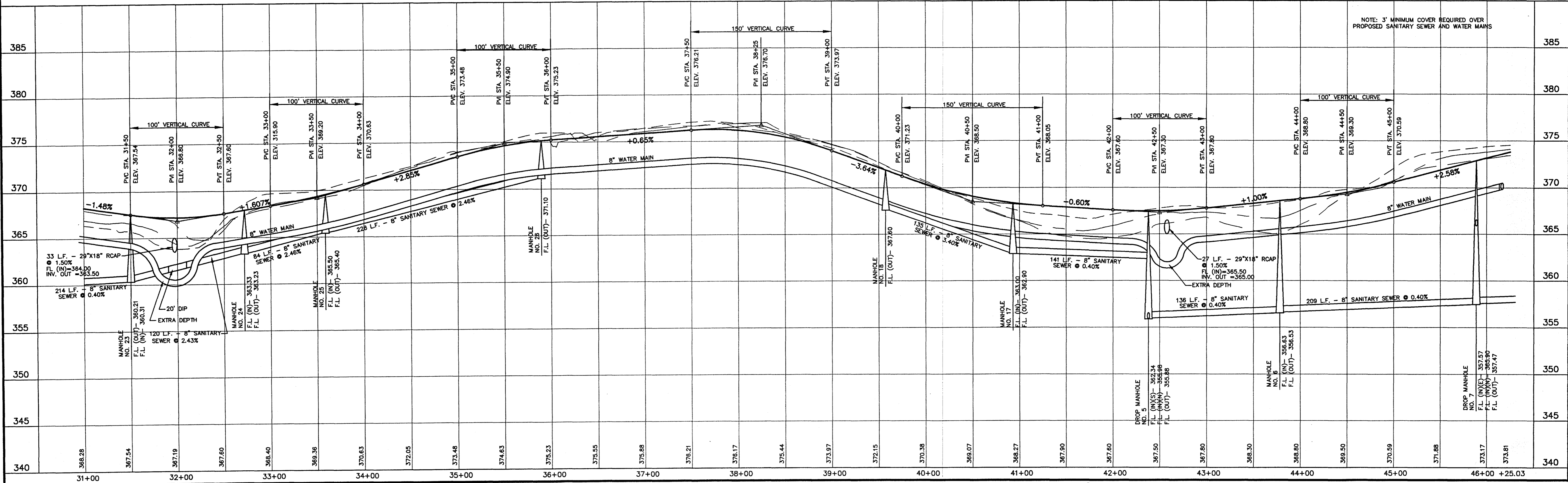
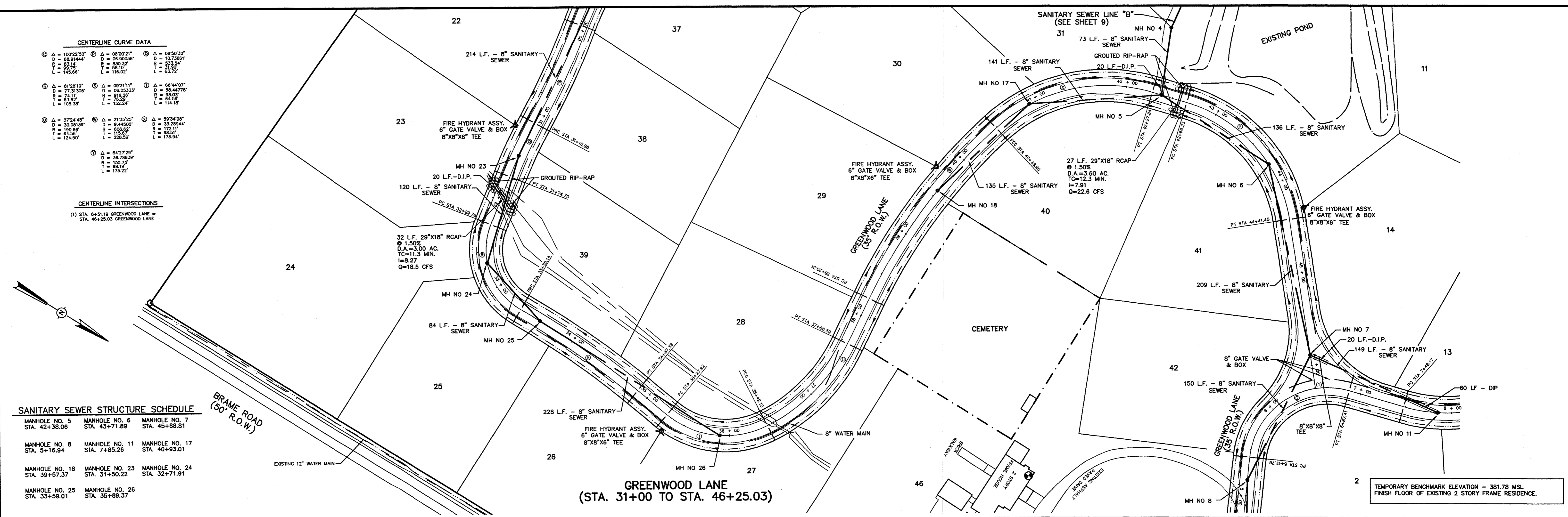
**CENTERLINE CURVE DATA**

① Δ = 107°22'50"	② Δ = 08°00'21"	③ Δ = 06°50'32"
D = 66.91444'	D = 06.90055'	D = 10.72801'
R = 83.15'	R = 52.102'	R = 33.594'
L = 145.66'	L = 116.02'	L = 63.72'
④ Δ = 61°28'19"	⑤ Δ = 09°31'11"	⑥ Δ = 66°44'07"
D = 77.31306'	D = 06.25333'	D = 28.03'
R = 74.11'	R = 316.39'	R = 175.11'
L = 83.87'	L = 115.24'	L = 114.18'
⑦ Δ = 37°24'48"	⑧ Δ = 21°35'25"	⑨ Δ = 59°34'08"
D = 33.05139'	D = 9.44650'	D = 33.28944'
R = 190.55'	R = 506.82'	R = 175.11'
L = 84.56'	L = 228.59'	L = 178.94'
⑩ Δ = 64°27'28"	D = 36.78354'	
R = 185.75'		
L = 175.22'		

**CENTERLINE INTERSECTIONS**  
 (1) STA. 6+51.19 GREENWOOD LANE  
 STA. 46+25.03 GREENWOOD LANE

**SANITARY SEWER STRUCTURE SCHEDULE**

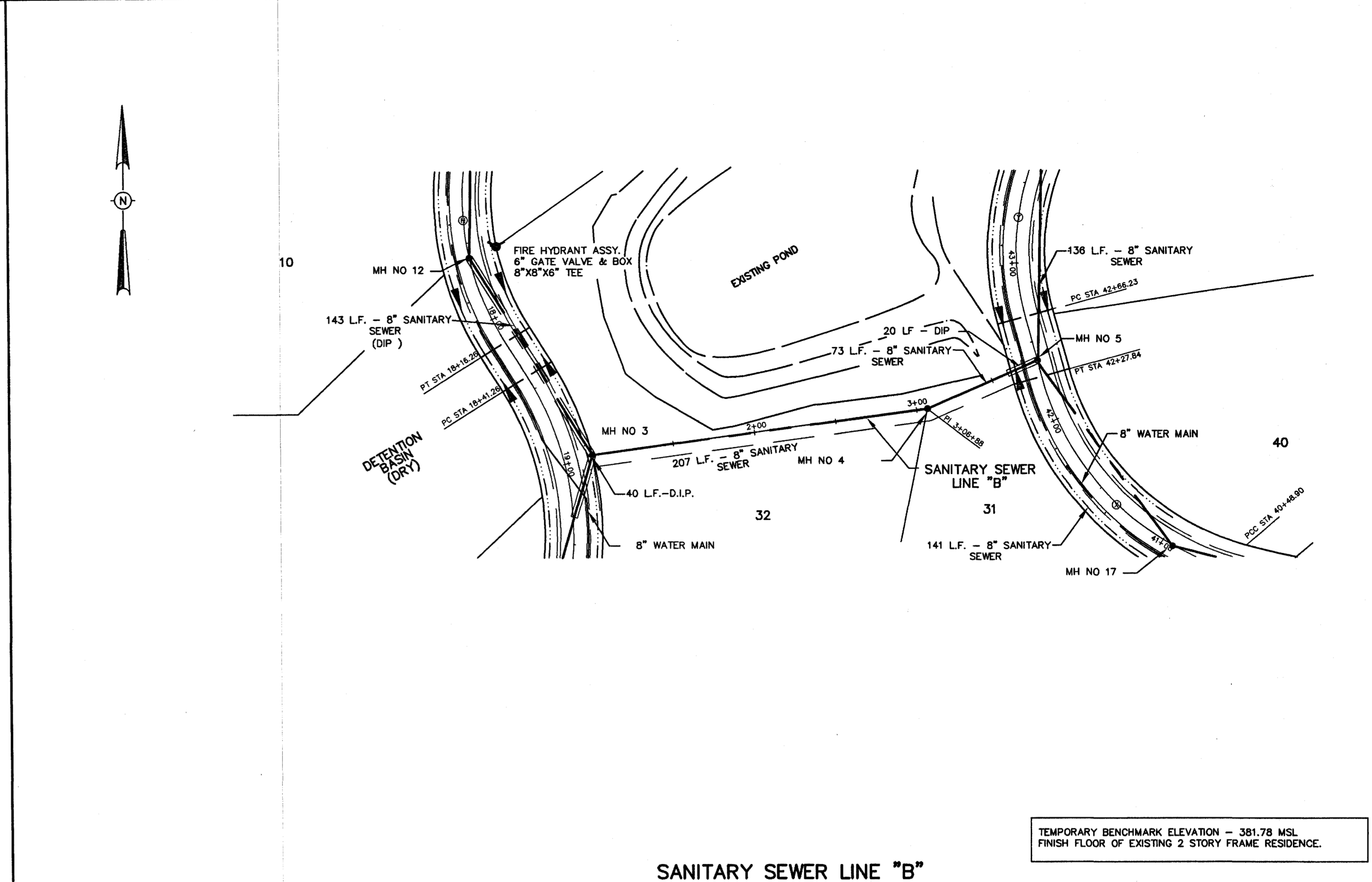
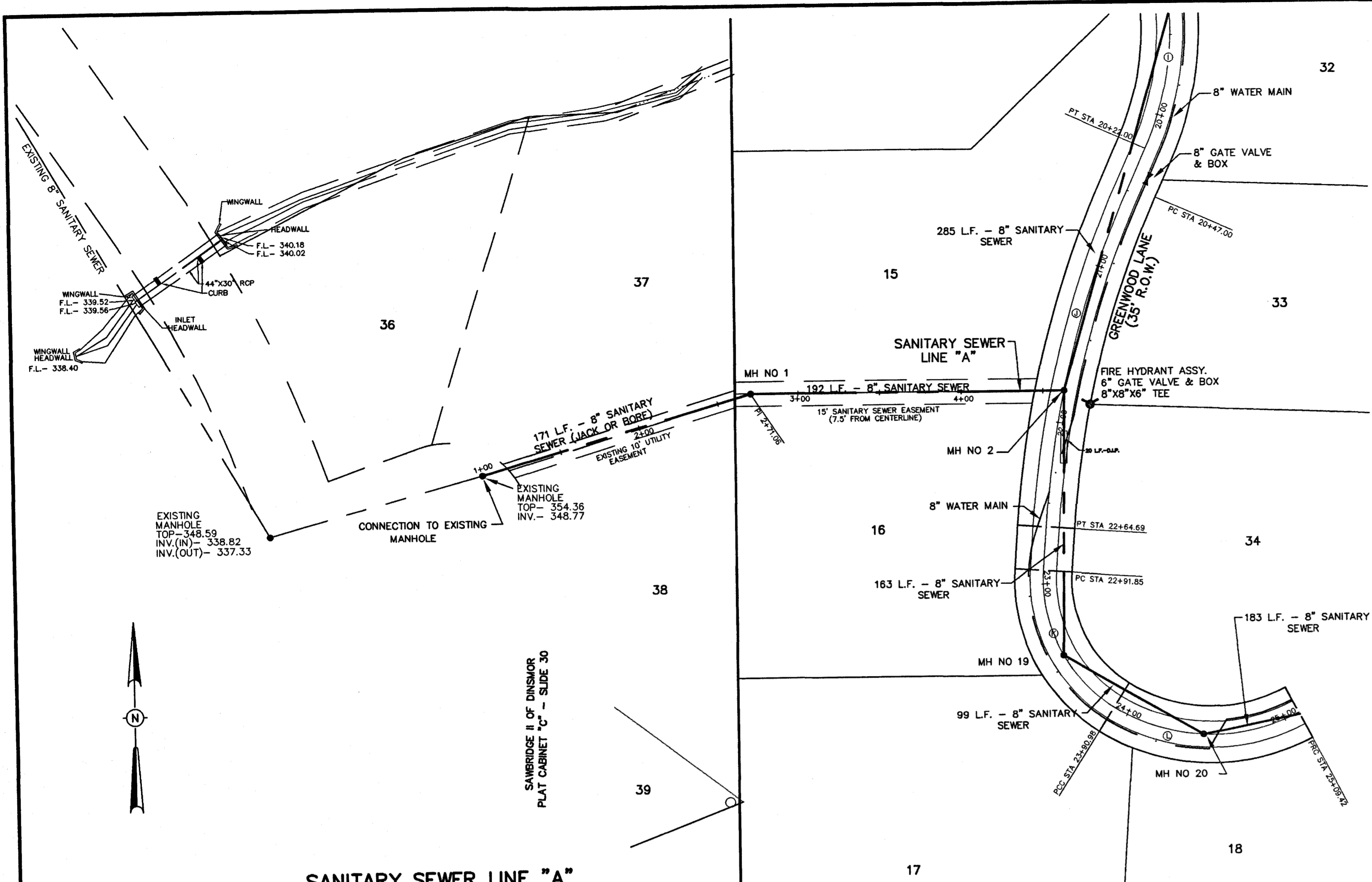
MANHOLE NO. 5 STA. 42+38.06	MANHOLE NO. 6 STA. 43+71.89	MANHOLE NO. 7 STA. 45+88.81
MANHOLE NO. 8 STA. 5+16.94	MANHOLE NO. 11 STA. 7+85.26	MANHOLE NO. 17 STA. 40+93.01
MANHOLE NO. 18 STA. 39+57.37	MANHOLE NO. 23 STA. 31+50.22	MANHOLE NO. 24 STA. 32+71.91
MANHOLE NO. 25 STA. 33+59.01	MANHOLE NO. 26 STA. 35+89.37	



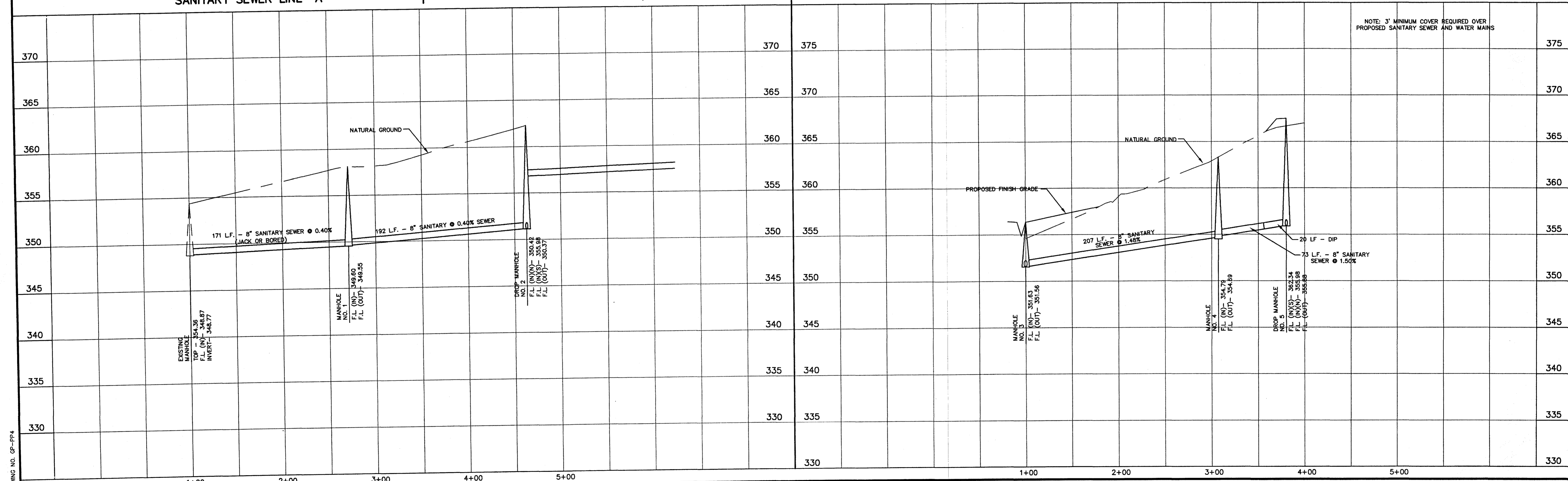
NOTE: 3' MINIMUM COVER REQUIRED OVER PROPOSED SANITARY SEWER AND WATER MAINS

DRAWING NO. GRPL-PP3

<p><b>H D LANG AND ASSOCIATES, INC.</b>          POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236          601-362-4886</p>	<p>PROJECT  <b>GREENWOOD PLANTATION</b></p>	<p>DESCRIPTION  <b>PLAN AND PROFILE          GREENWOOD LANE          (STA. 31+00 TO STA. 46+25.03)</b></p>	<p>DATE          1-8-02</p>	<p>REVISION          RECORD DRAWINGS</p>	<p>BY          D.L.M.</p>	<p>DRAWN BY: CLS          DATE: 12-21-00          HORIZ.: 1"=50' / VERT.: 1"=5'          BOOK: PAGE:          PROJECT NO.: 00-181</p>	<p>SHEET  <b>8</b></p>
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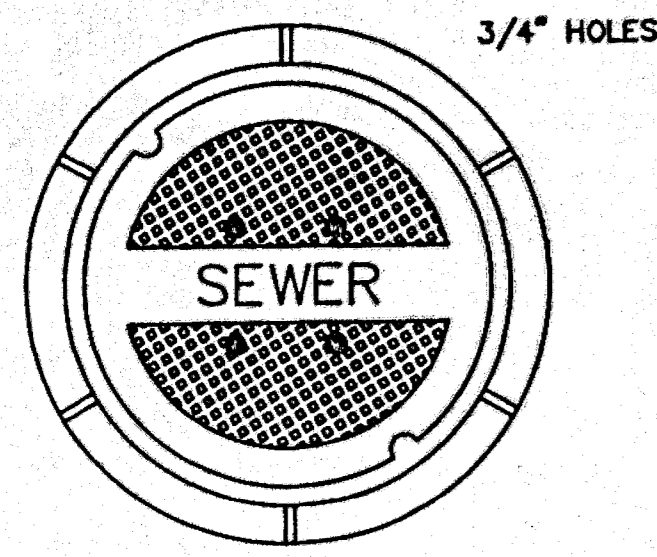
TEMPORARY BENCHMARK ELEVATION - 381.78 MSL  
FINISH FLOOR OF EXISTING 2 STORY FRAME RESIDENCE.



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

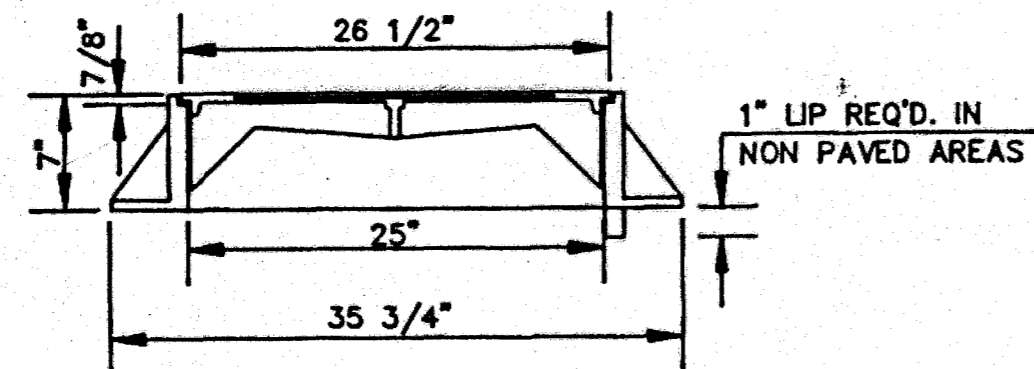
DRAWING NO. GP-PP4 <b>H D LANG AND ASSOCIATES, INC.</b> POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236 601-362-4886	PROJECT <b>GREENWOOD PLANTATION</b>	DESCRIPTION <b>PLAN AND PROFILE          SANITARY SEWER LINES "A" &amp; "B"</b>	DATE	REVISION	BY	DRAWN BY: CLS	SHEET
			1-8-02	RECORD DRAWINGS	D.L.M.	DATE: 12-22-00	
						HORIZ.: 1"=50' / VERT.: 1"=5'	9
						BOOK: PAGE: PROJECT NO.: 00-181	



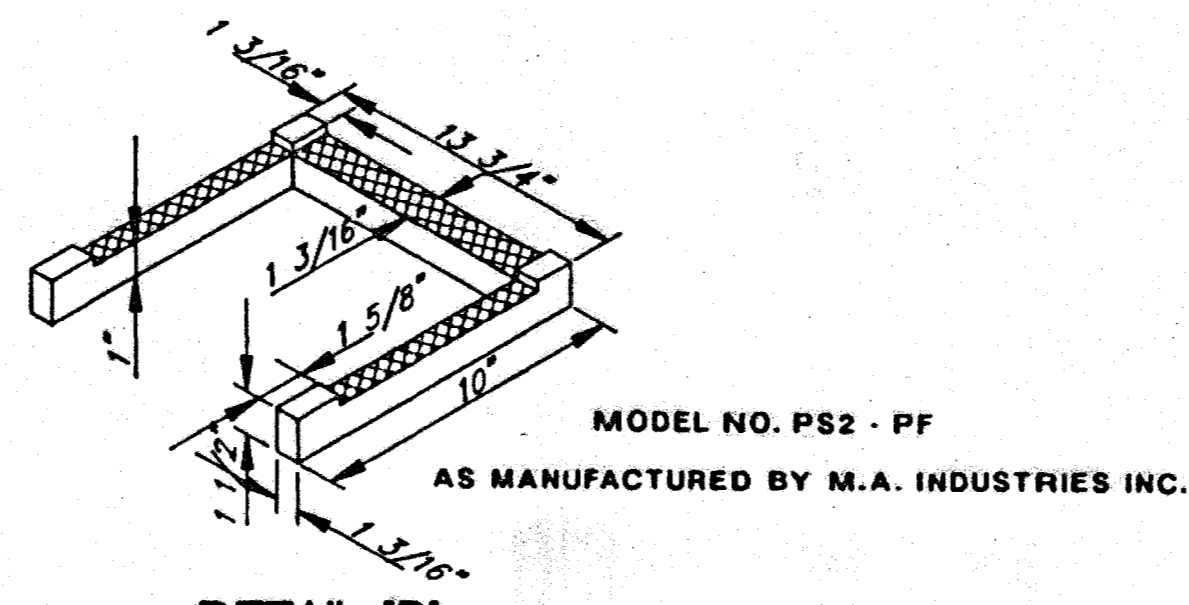


TOP PLAN OF COVER

FRAME & COVER WEIGHT 420 LBS.



SECTION

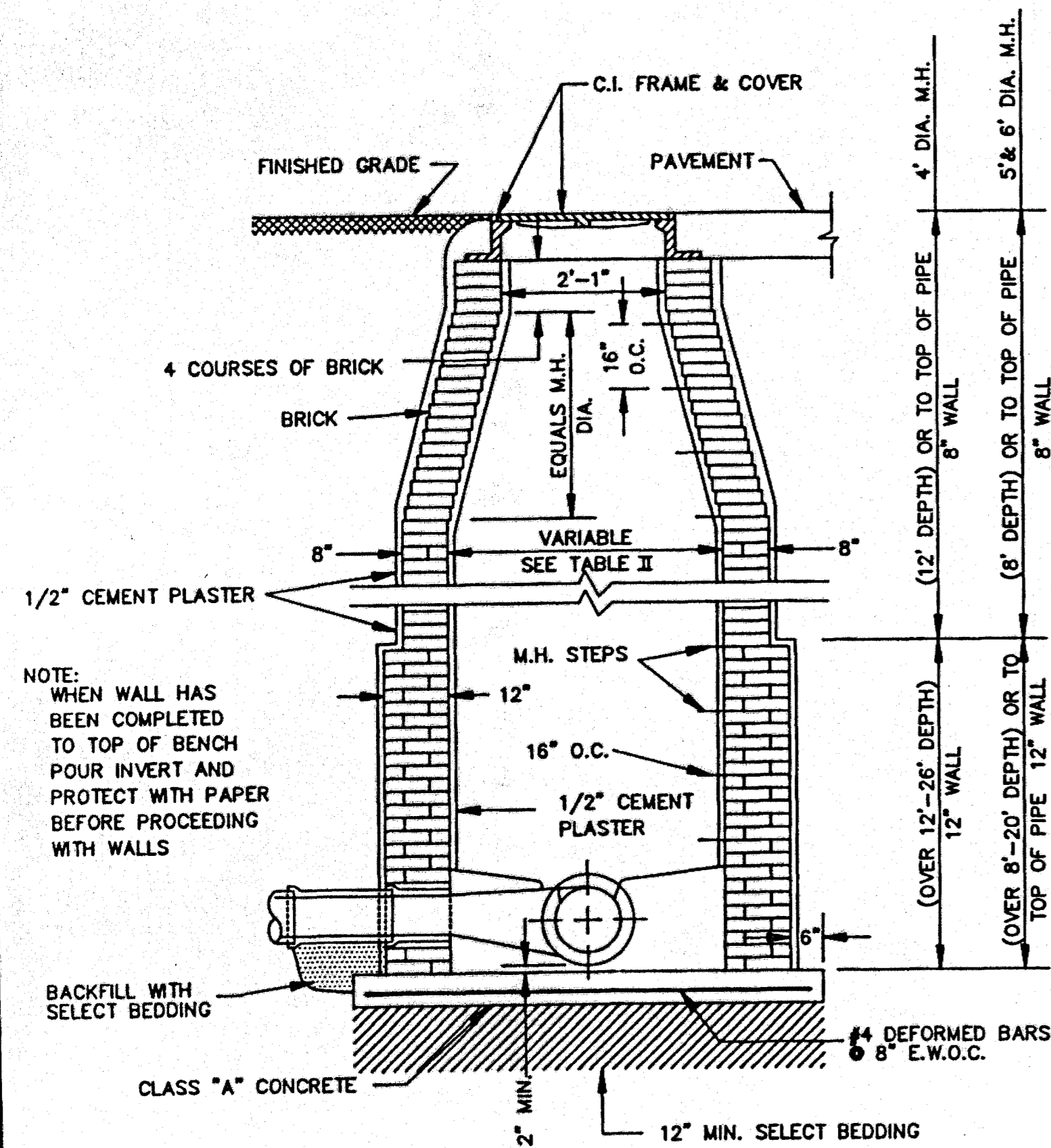


DETAIL 'B'

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

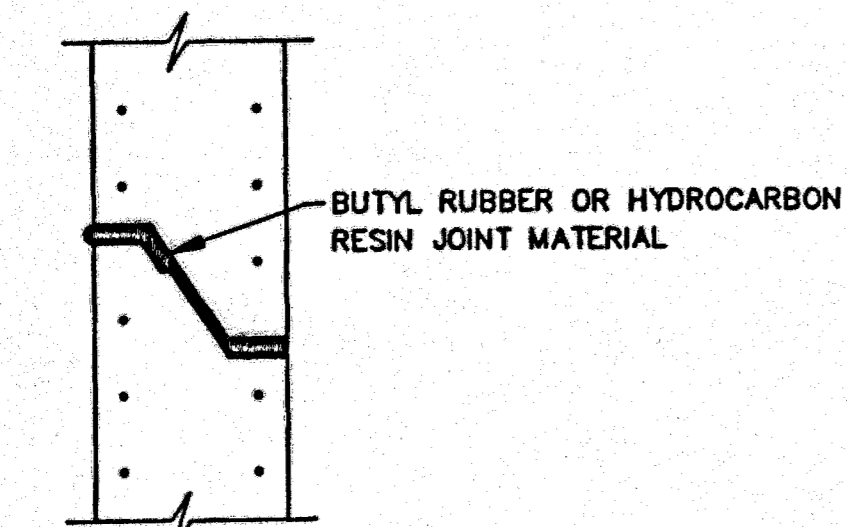
**STANDARD MANHOLE FRAME AND COVER**

N.T.S.



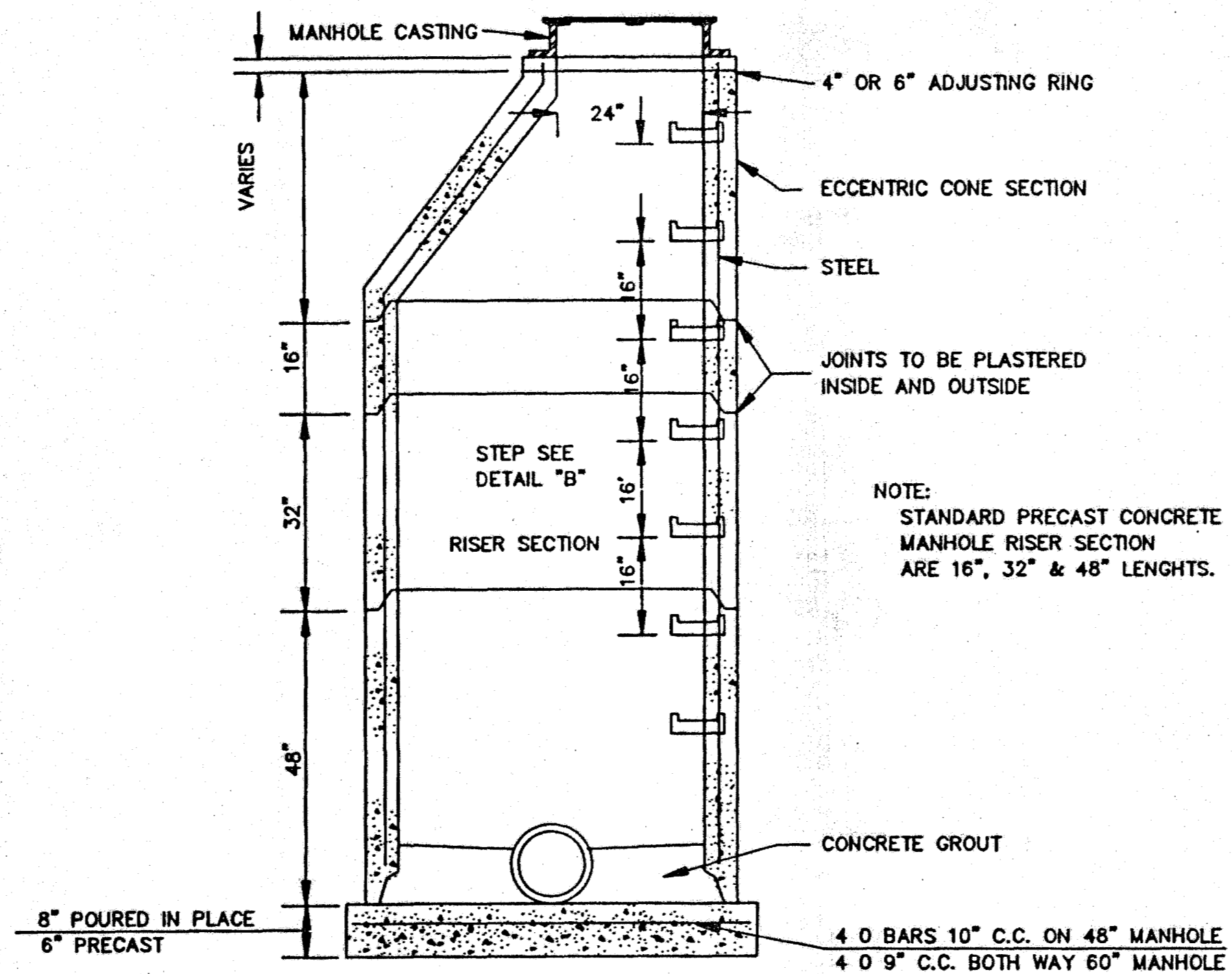
**STANDARD BRICK MANHOLE**

N.T.S.



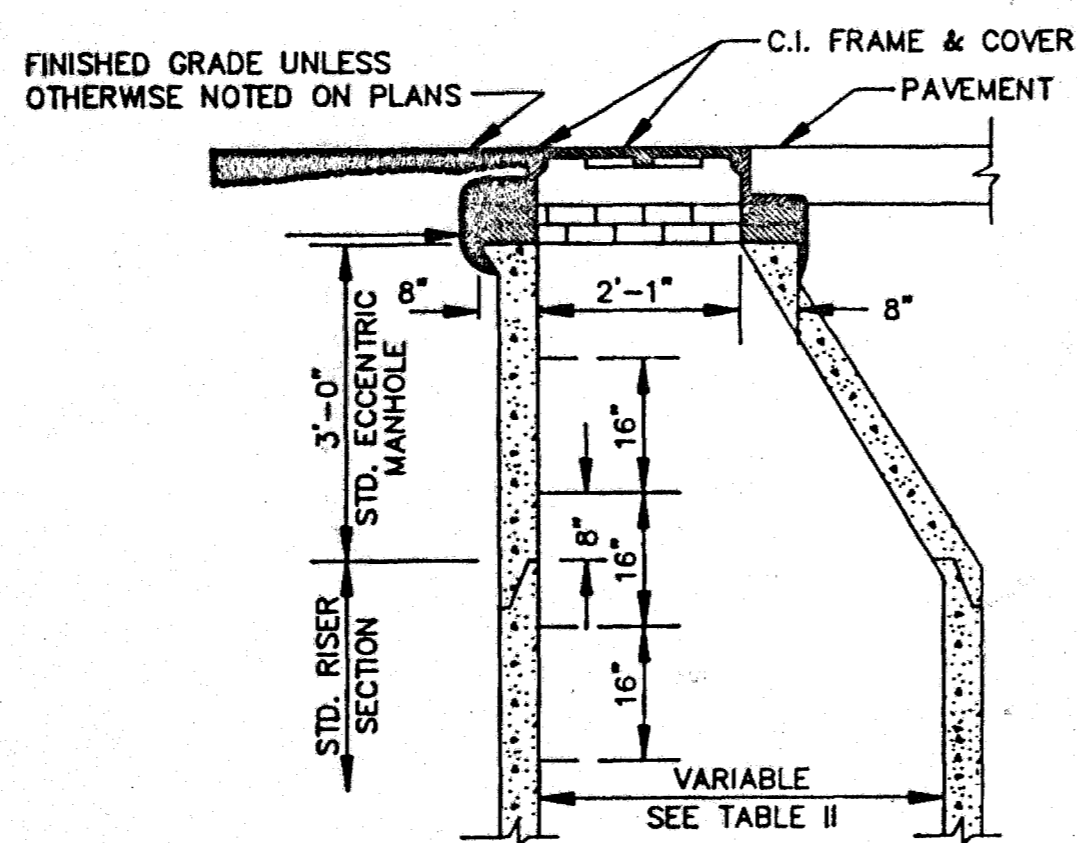
**TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL**

N.T.S.



**SECTION OF PRECAST CONCRETE MANHOLE**

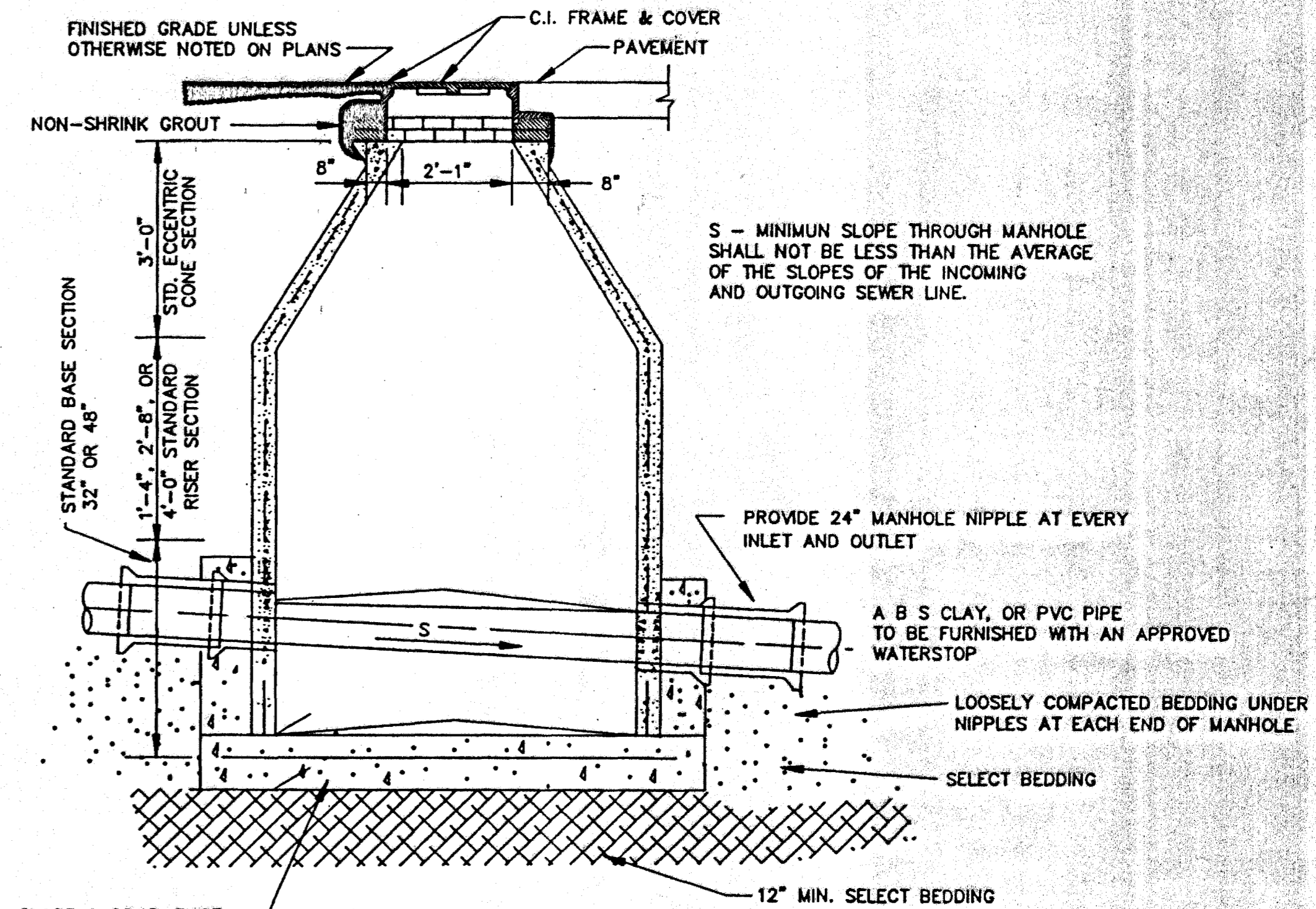
N.T.S.



**STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES**

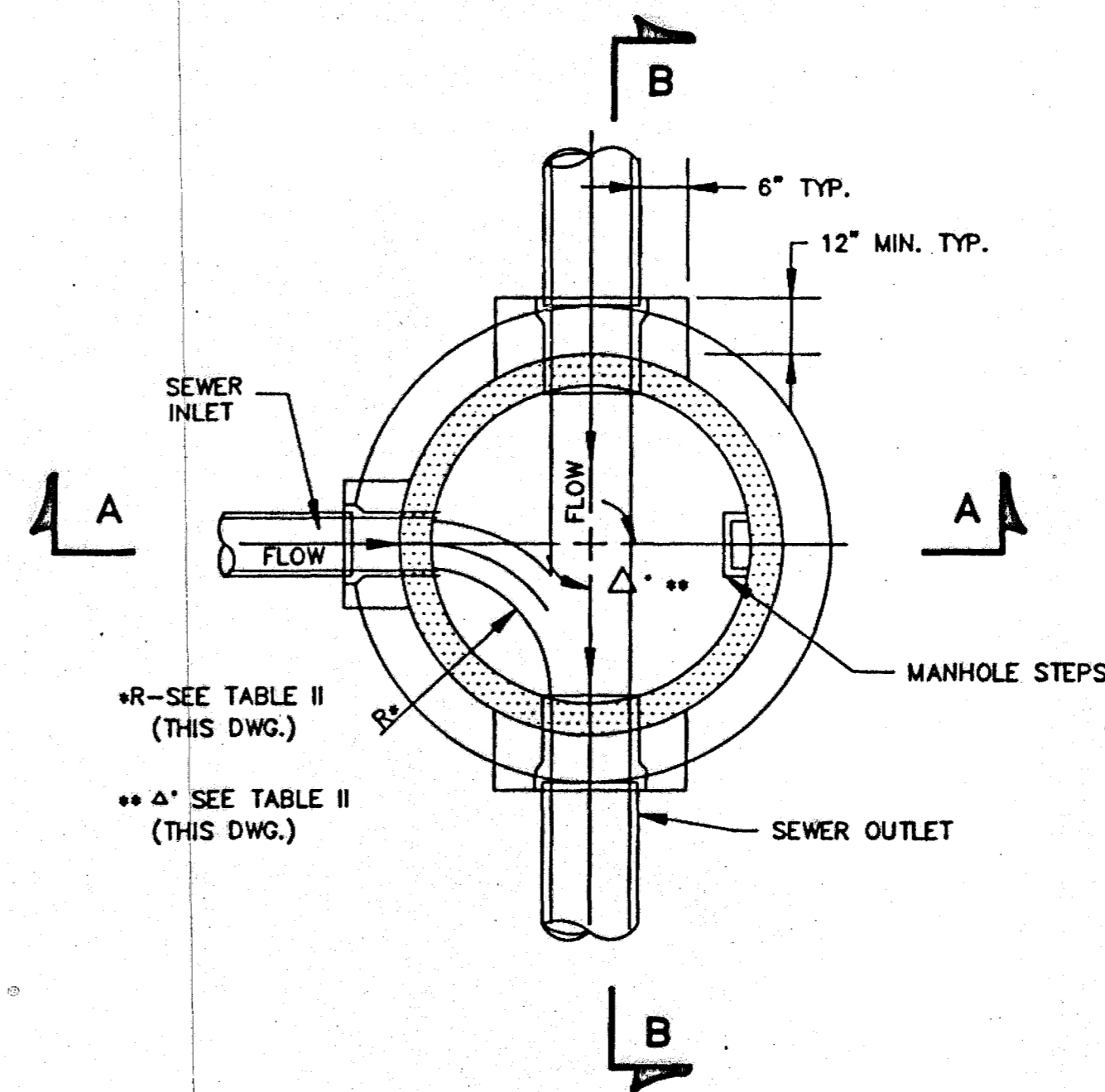
N.T.S.

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



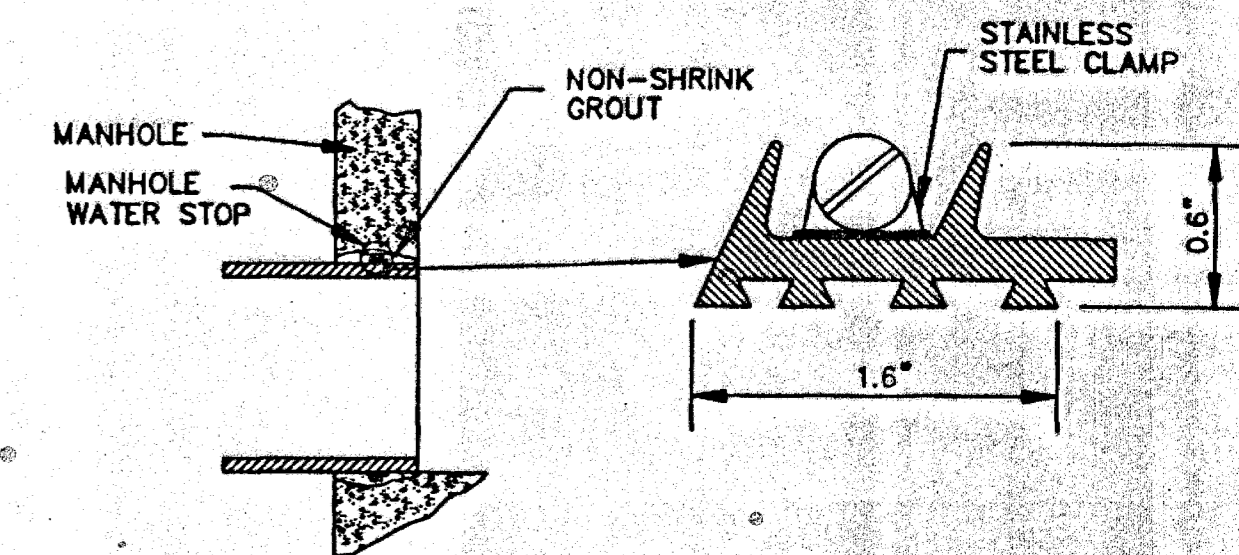
**SECTION B-B**

N.T.S.



**SECTIONAL PLAN STANDARD MANHOLE**

N.T.S.



**TYPICAL MANHOLE WATER STOP**

**FOR ABS, CLAY OR PVC PIPE**

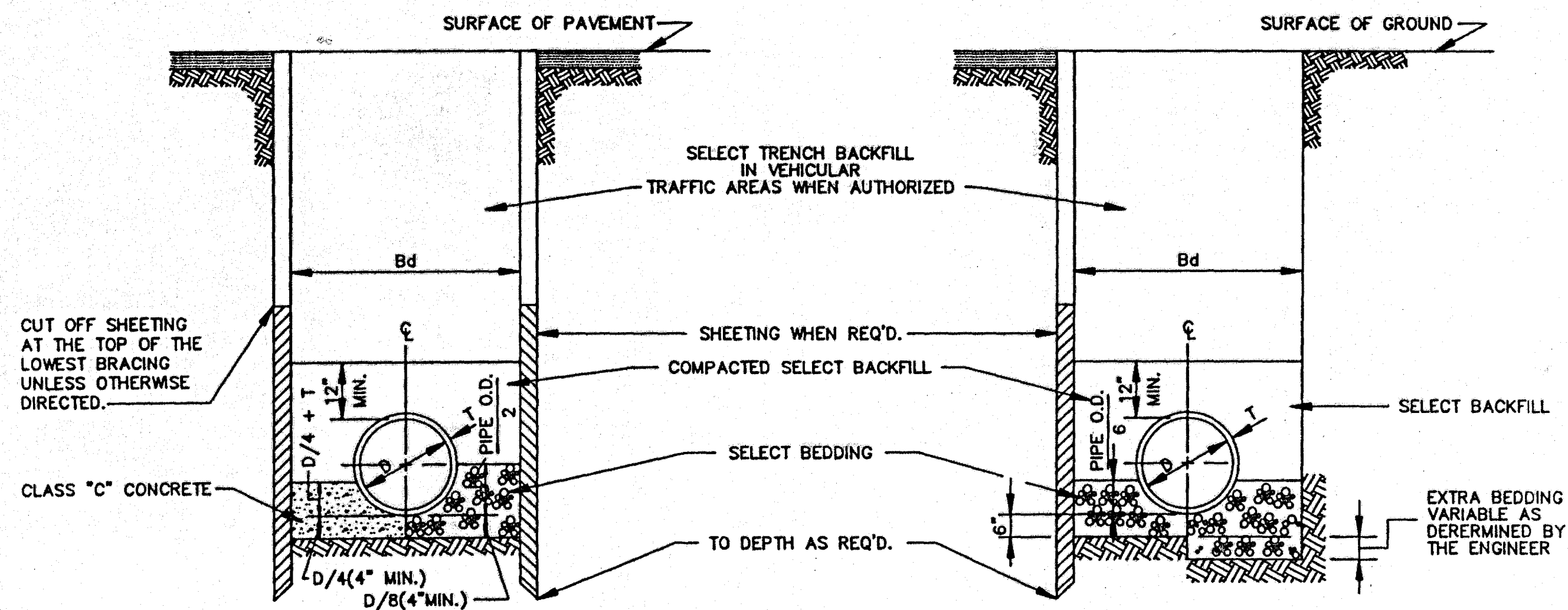
EXISTING AND "STRADDLE" MANHOLES  
N.T.S.

CITY OF RIDGELAND, MS.

**STANDARD DETAILS**

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

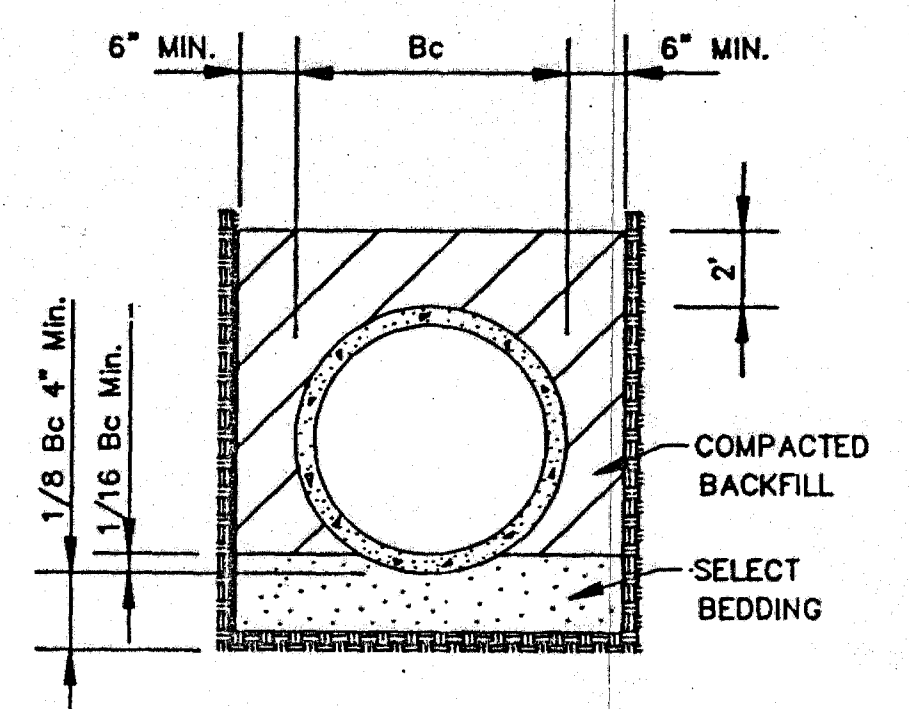




CLASS "A" BEDDING CLASS "B" BEDDING CLASS "B" BEDDING EXTRA BEDDING (FOR INADEQUATE SOIL BEARING CAPACITY)

BEDDING FOR VITRIFIED CLAY, CONCRETE & ABS PIPE

TYPICAL TRENCH DETAILS (FORCE MAIN)

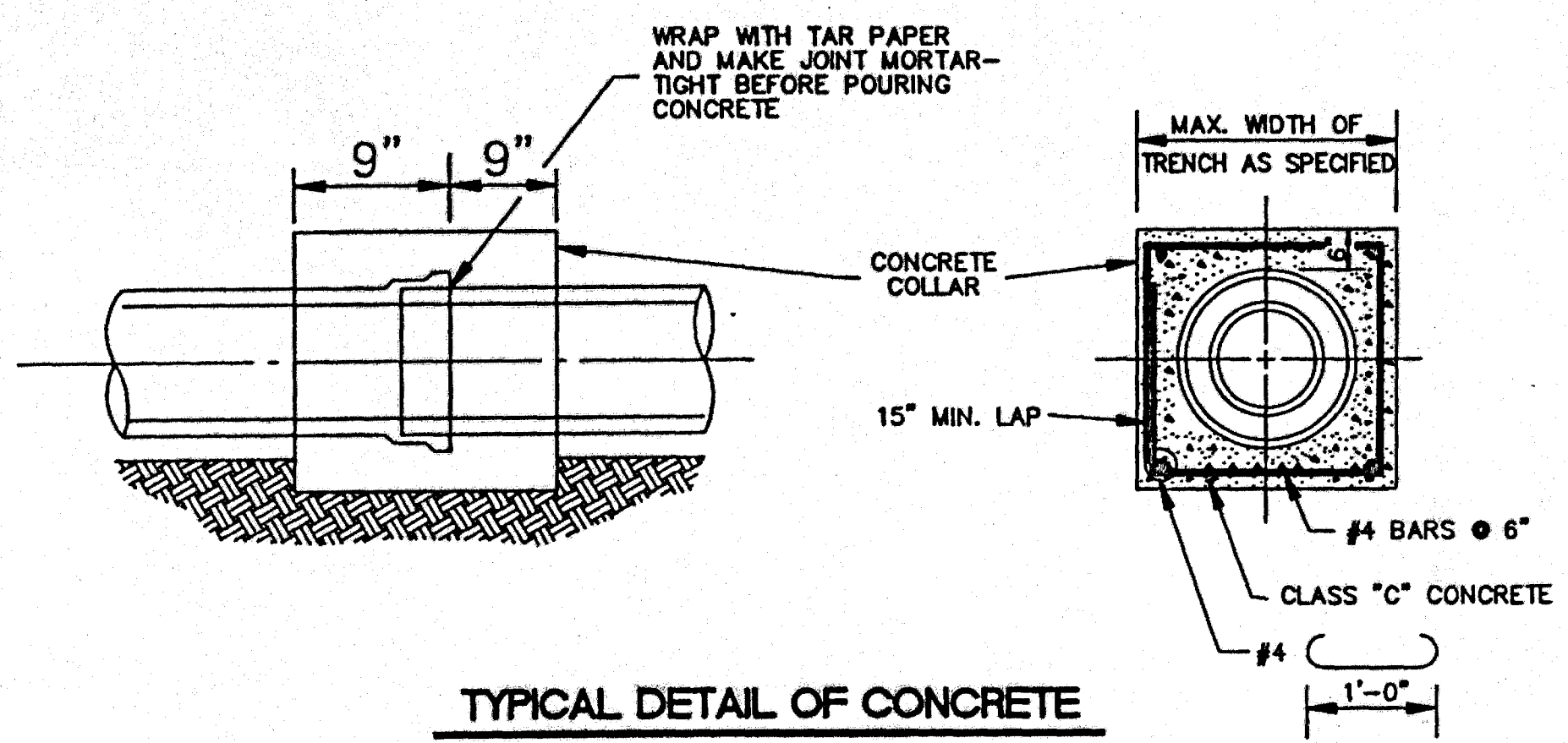


**CLASS "A" BEDDING**  
 MATERIAL SHALL BE CLASS "C" CONCRETE CRADLES. THE PIPE SHALL BE LAID ON CONCRETE SADDLES CONSTRUCTED TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE PIPE WHILE THE CRADLE IS BEING PLACED. PIPE SUPPORTS OF WOOD BLOCKS, LOOSE BRICK, ETC., WILL NOT BE PERMITTED. THE CRADLE SHALL 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.

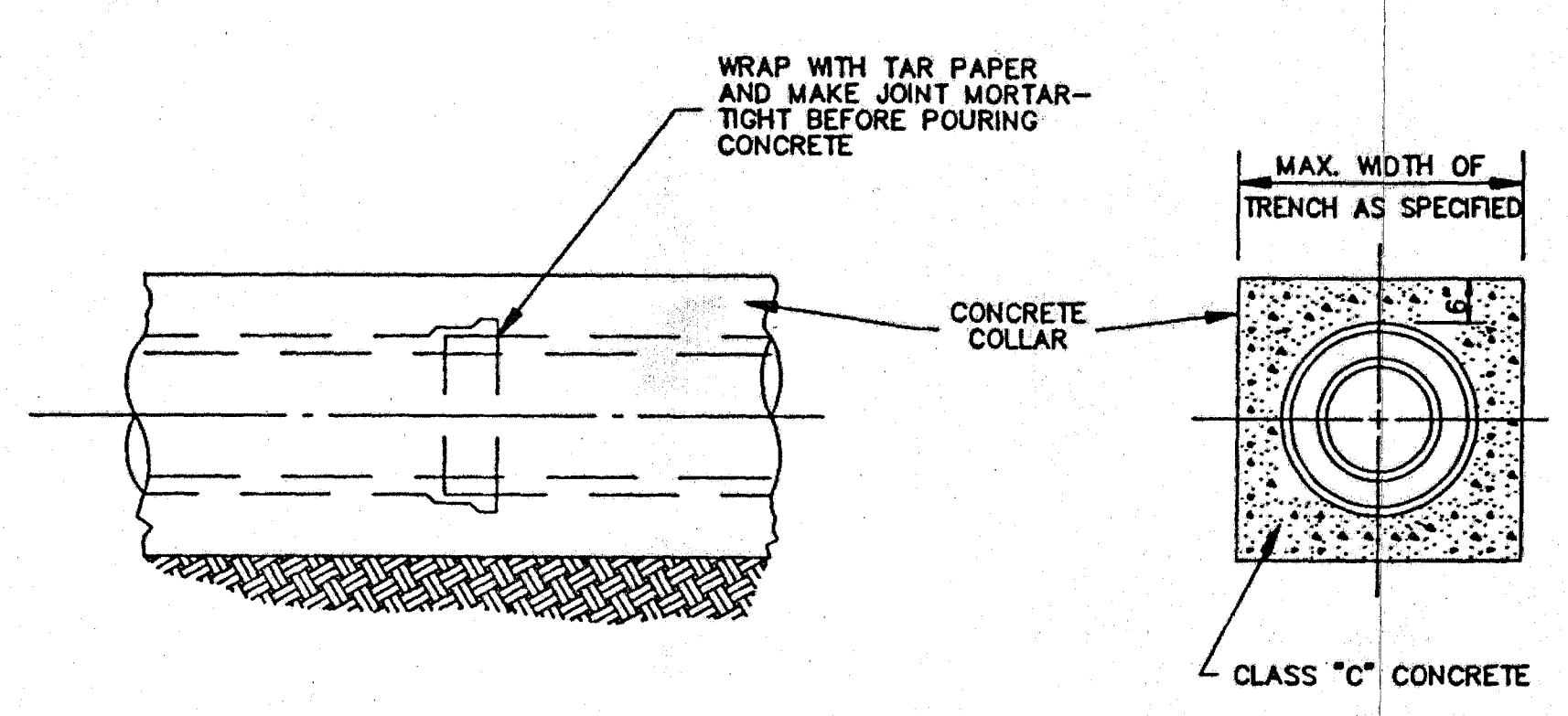
**CLASS "B" BEDDING**  
 MATERIAL SHALL BE SELECT BEDDING AS SPECIFIED. MATERIAL SHALL BE CAREFULLY PLACED AND THOROUGHLY COMPACTED BY TAMPING.

**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.



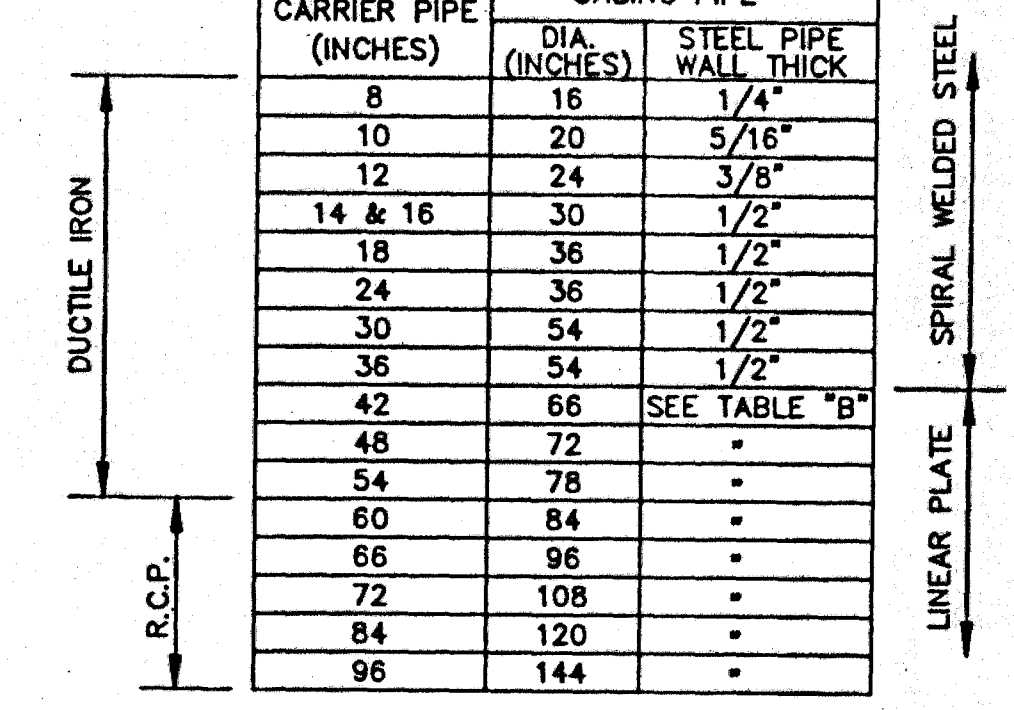
TYPICAL DETAIL OF CONCRETE ENCASMENT  
 N.T.S.

**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	"

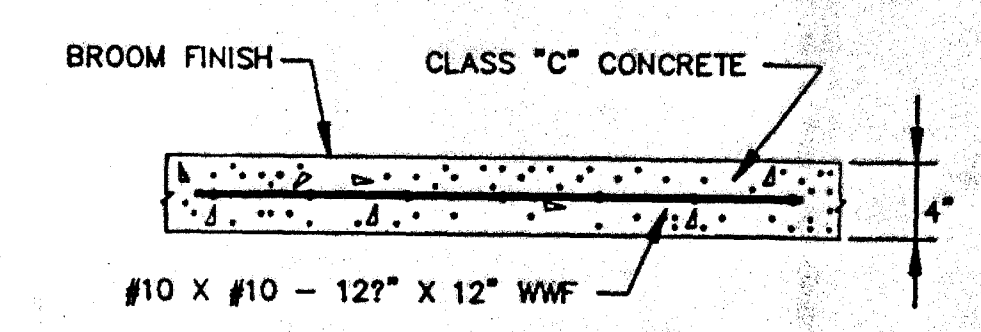
**TABLE "B"**  
**GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES**

NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET)											
	2-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60
48	12	12	12	12	12	12	12	12	12	10	8	10
54	12	12	12	12	12	12	12	12	10	8	7	10
60	12	12	12	12	12	12	12	12	8	7	5	10
66	12	12	12	12	12	12	10	8	8	5	5	10
72	12	12	12	12	12	10	8	7	5	5	5	10
78	12	12	12	12	10	8	7	5	5	5	5	10
84	12	12	12	10	8	5	5	5	5	5	5	10
96	12	10	10	10	8	5	5	5	5	5	5	10
108	10	10	10	8	7	5	5	5	5	5	5	10
120	10	10	8	8	7	5	5	5	5	5	5	10
144	8	8	8	8	5	5	5	5	5	5	5	10

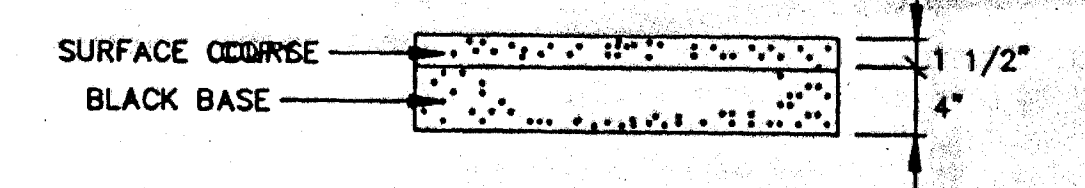


MIN. THICKNESS FOR LINER PLATE CASING IN RAILROAD CROSSING-10 GAGE

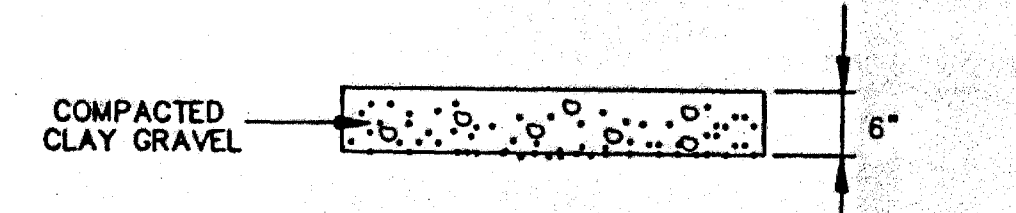
**CASING PIPE**  
 SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING



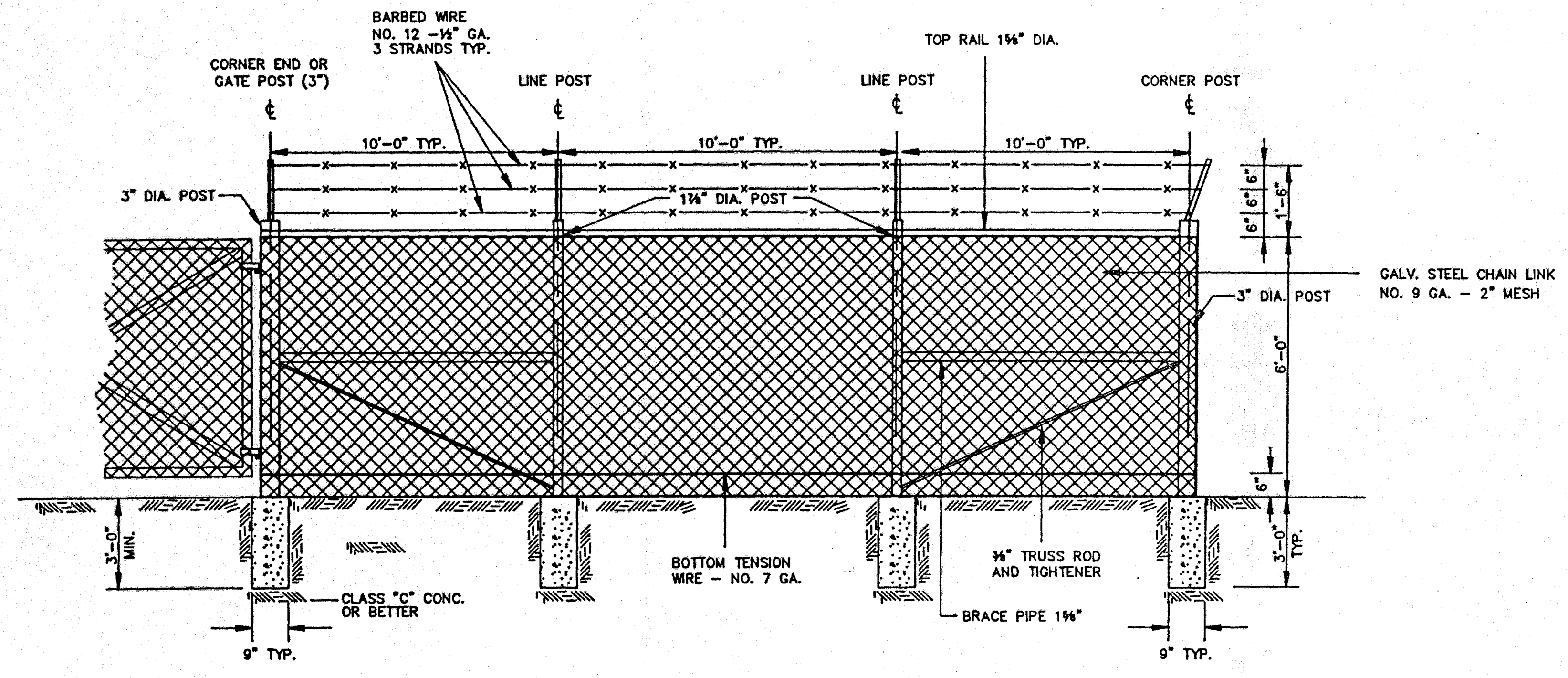
TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR



TYPICAL GRAVEL DRIVEWAY REPAIR

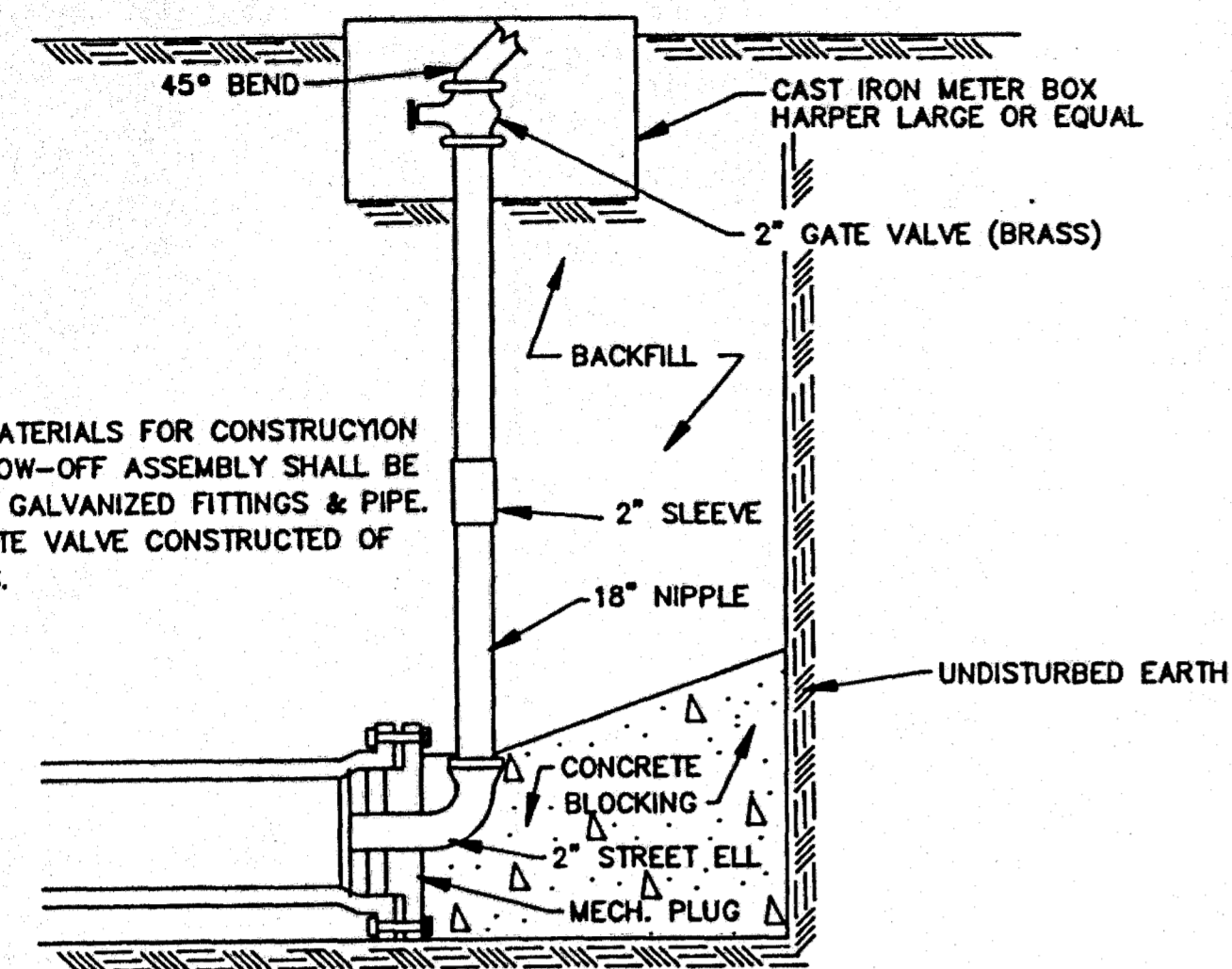


CHAIN LINK FENCE DETAIL  
 N.T.S.

CITY OF RIDGELAND, MS.  
**STANDARD DETAILS**

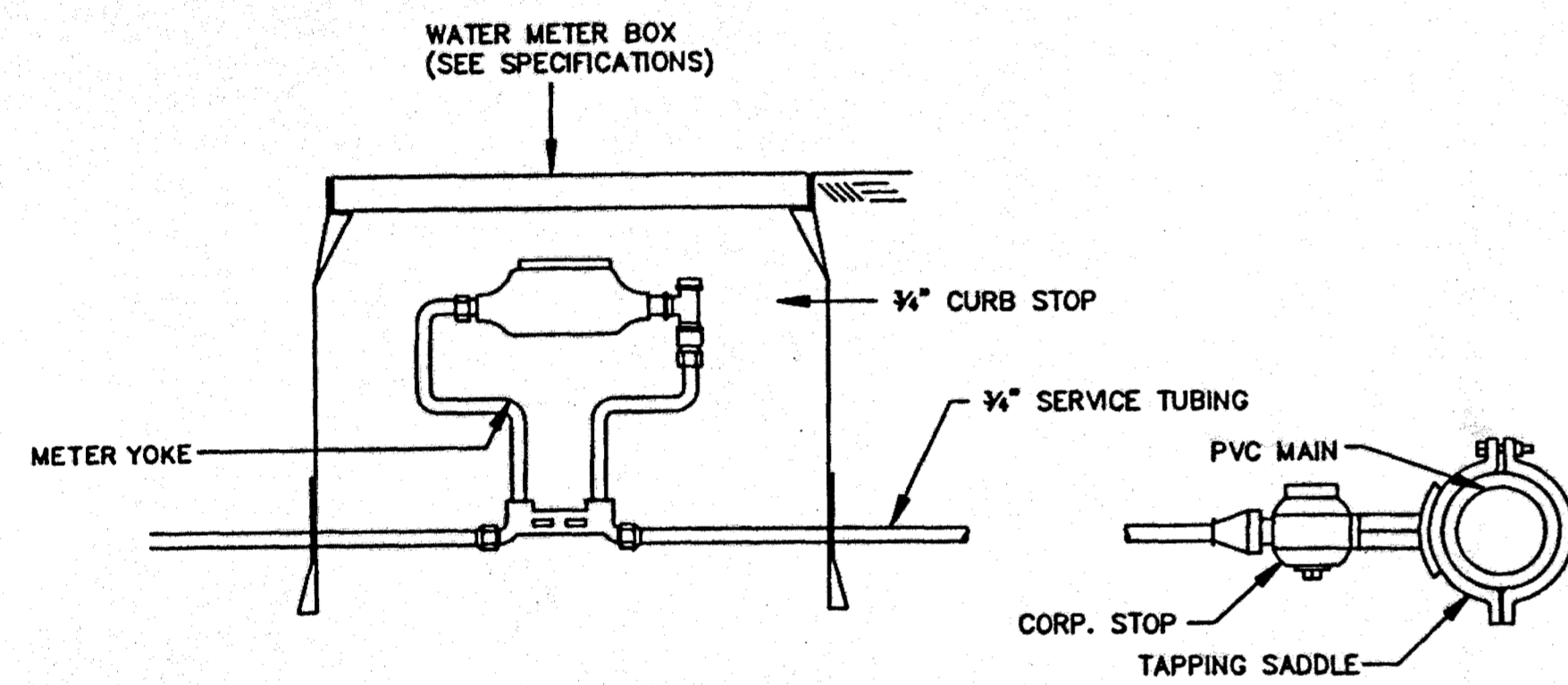
DEGN:			DRAWING NO.
DRWN:			OF
CHKD:			
SCALE:			



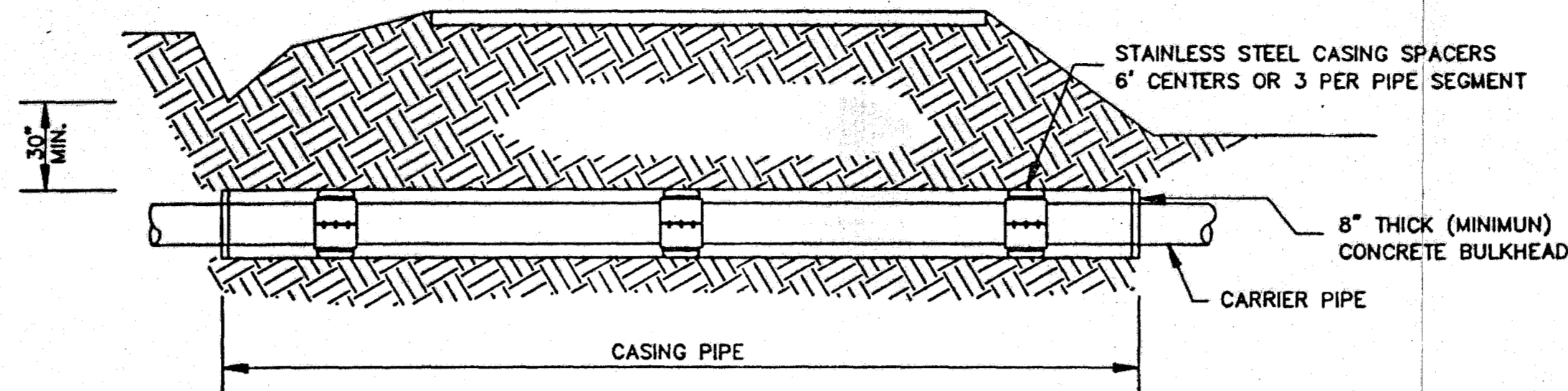


**NOTE:**  
ALL MATERIALS FOR CONSTRUCTION OF BLOW-OFF ASSEMBLY SHALL BE OF 2" GALVANIZED FITTINGS & PIPE. 2" GATE VALVE CONSTRUCTED OF BRASS.

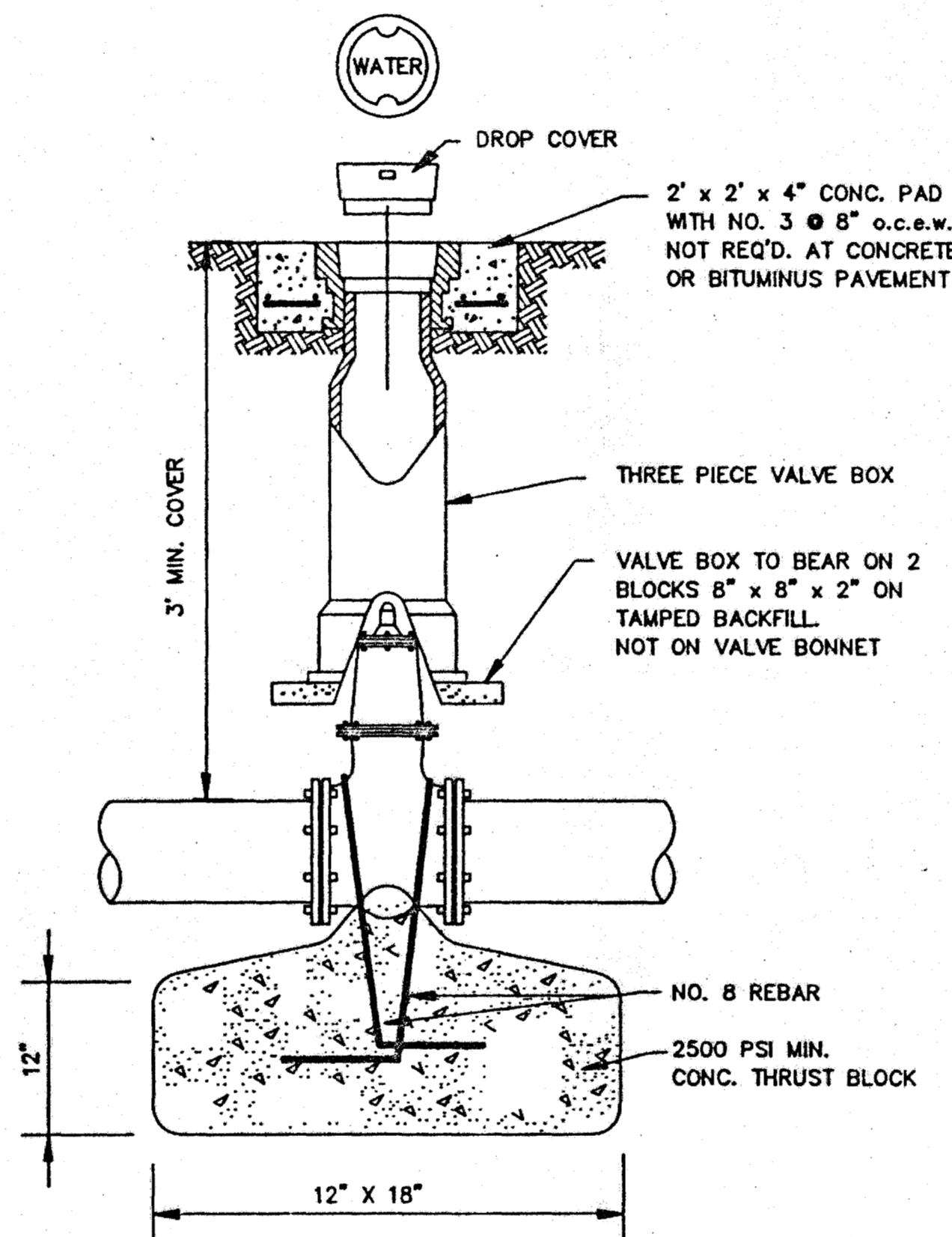
**TYPICAL BLOW-OFF ASSEMBLY**  
N.T.S.



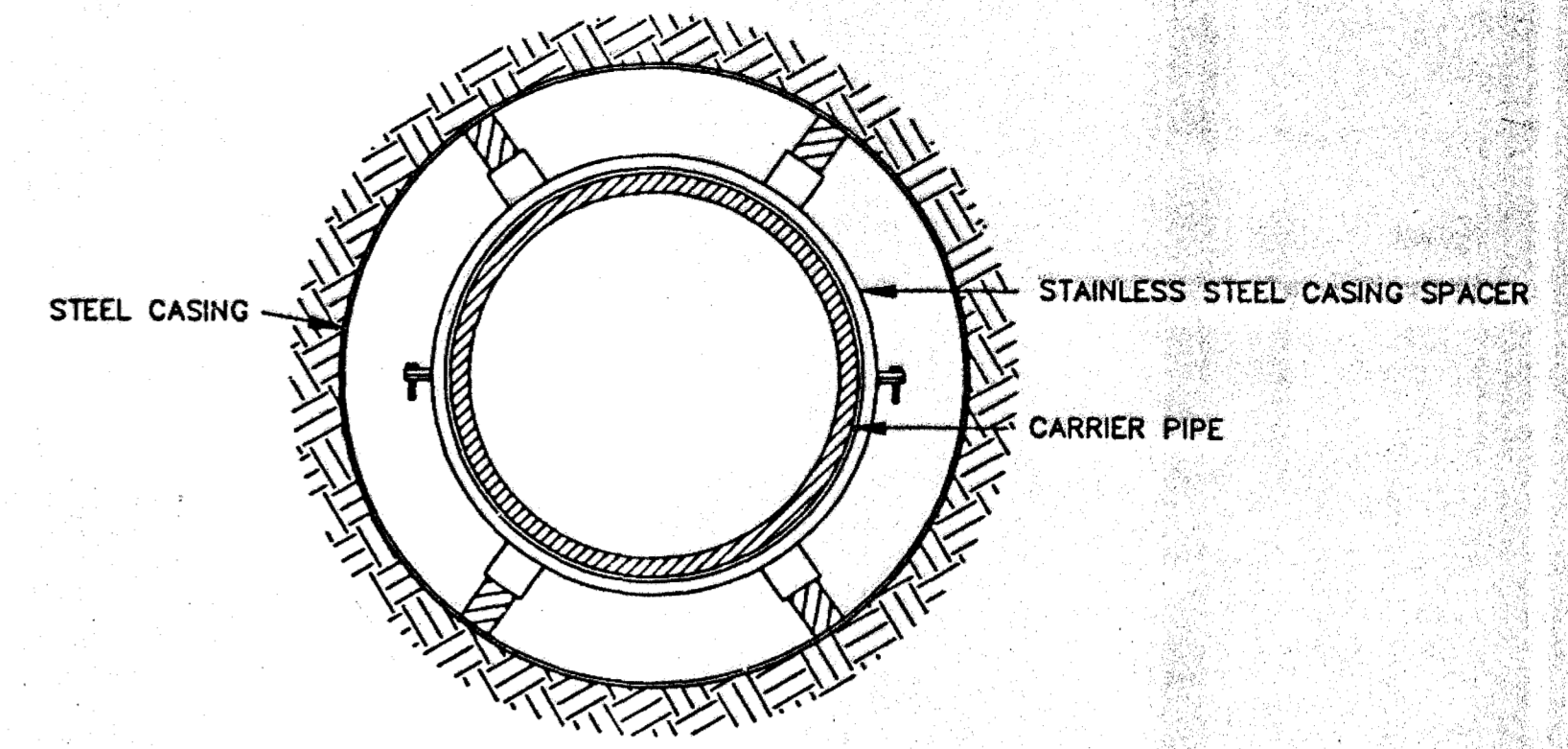
**TYPICAL 3/4" WATER SERVICE**  
N.T.S.



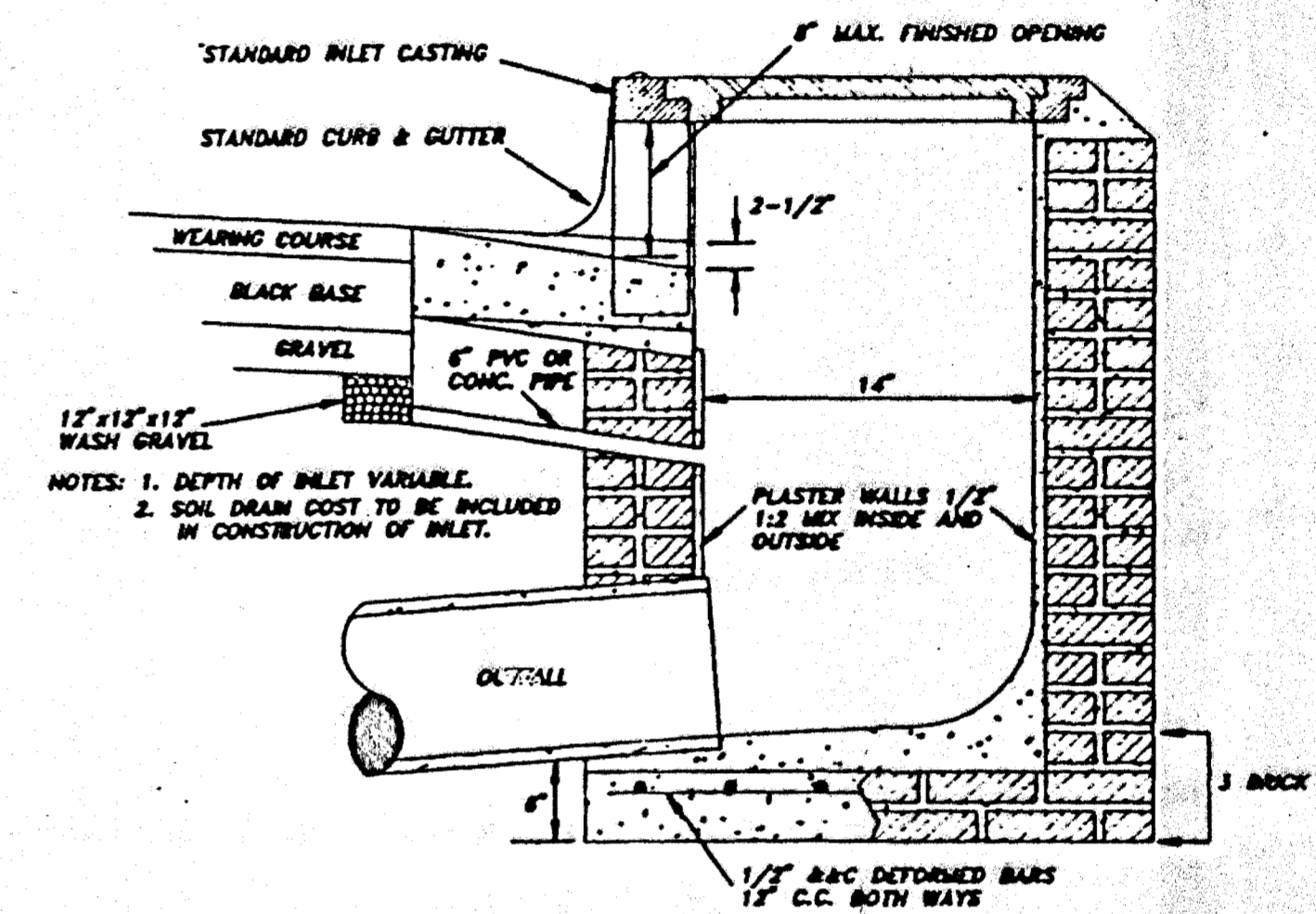
**TYPICAL BORE SECTION**  
N.T.S.



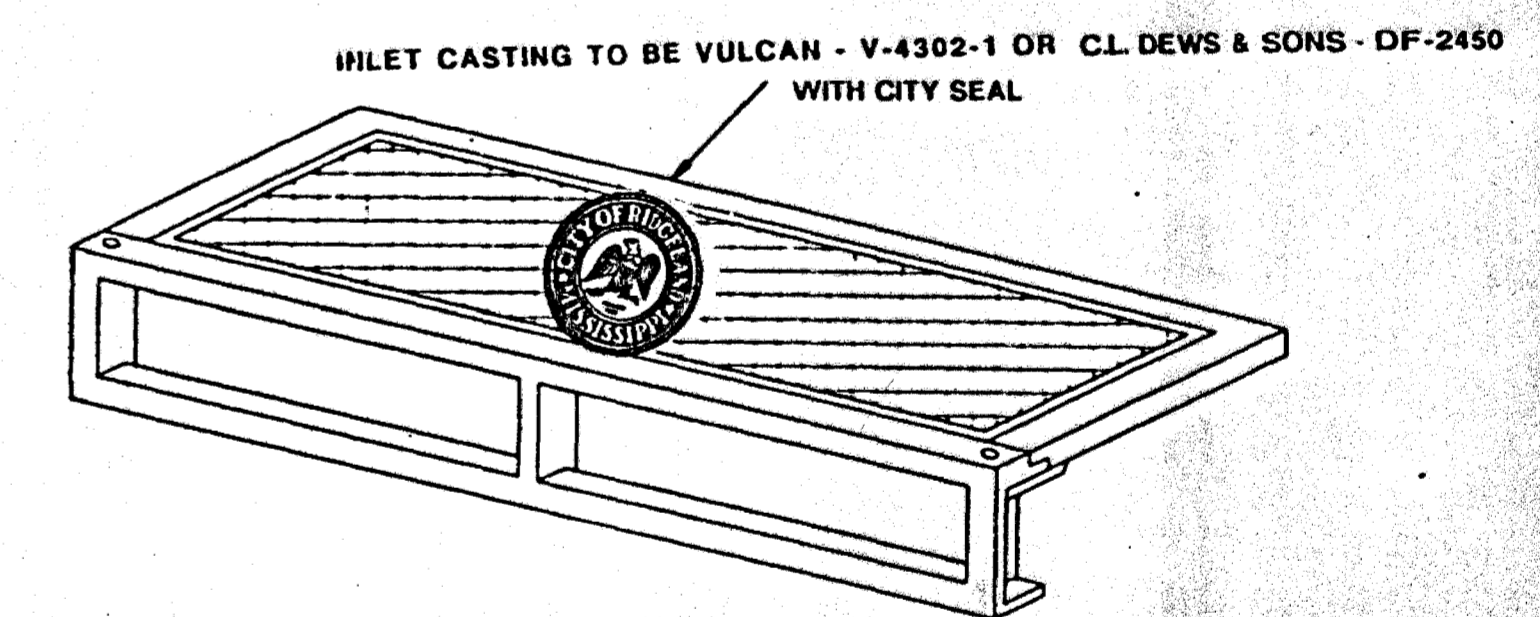
**GATE VALVE DETAIL**  
N.T.S.



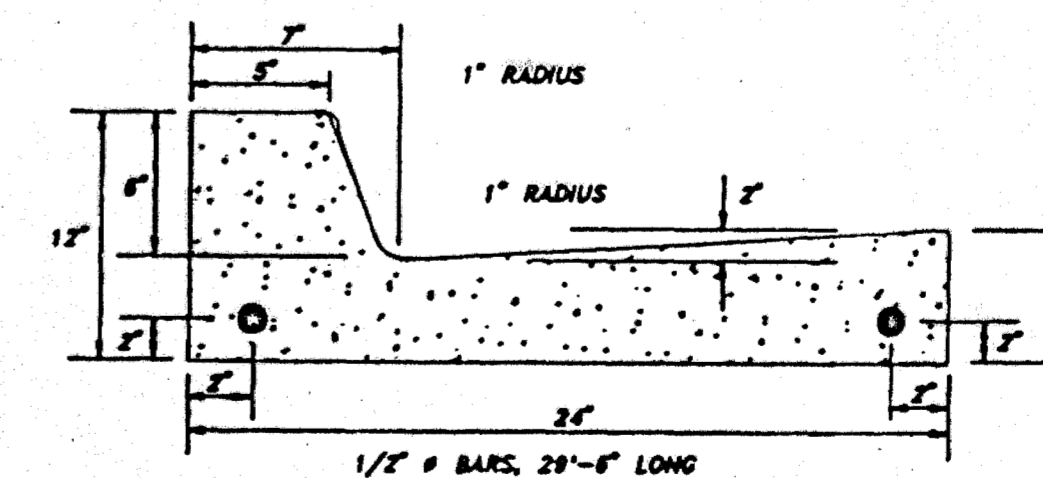
**BORE SECTION**  
N.T.S.



**SECTION OF STANDARD CURB INLET**



**STANDARD CURB INLET CASTING**



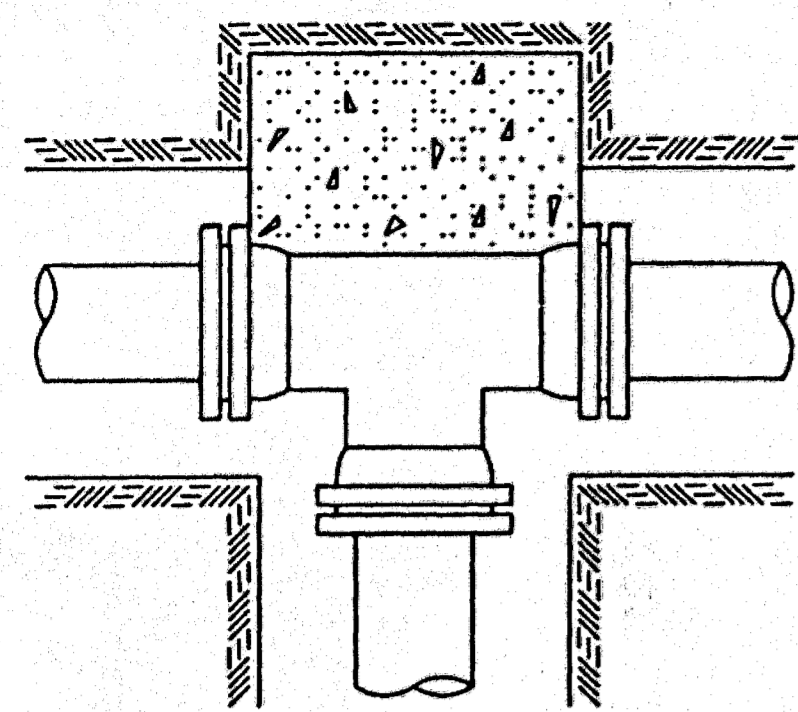
**NOTES:** 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 LB. CONCRETE.  
2. 2 - 3/8" DOWEL BARS, 15" LONG REQ'D. AT EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS AND 1/2" EXPANSION MATERIALS.

**STANDARD CURB & GUTTER**

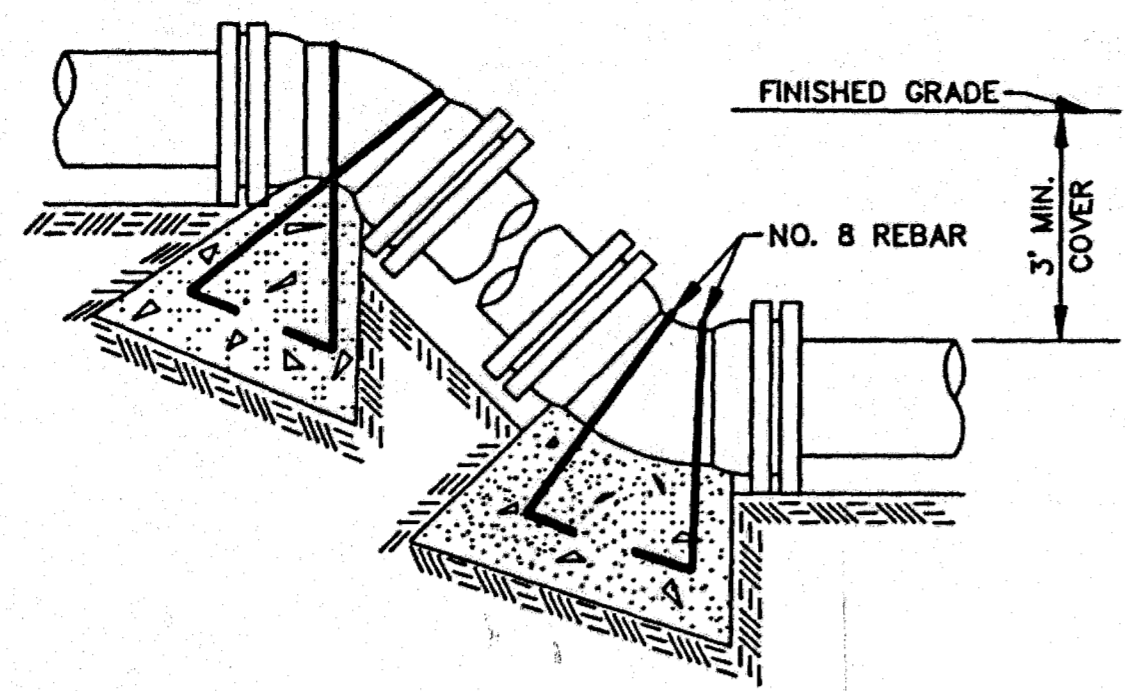
**CITY OF RIDGELAND, MS.**  
**STANDARD DETAILS**

DSGN:	SV	THE CITY OF RIDGELAND	DRAWING NO.
DRWN:	BRM		5 of 6
CHKD:	SV		
SCALE:	N.T.S.		

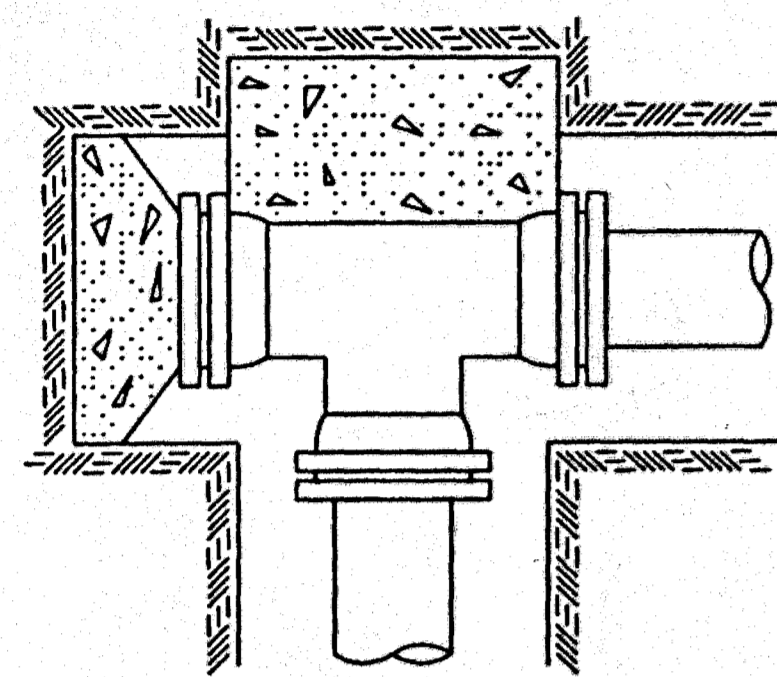




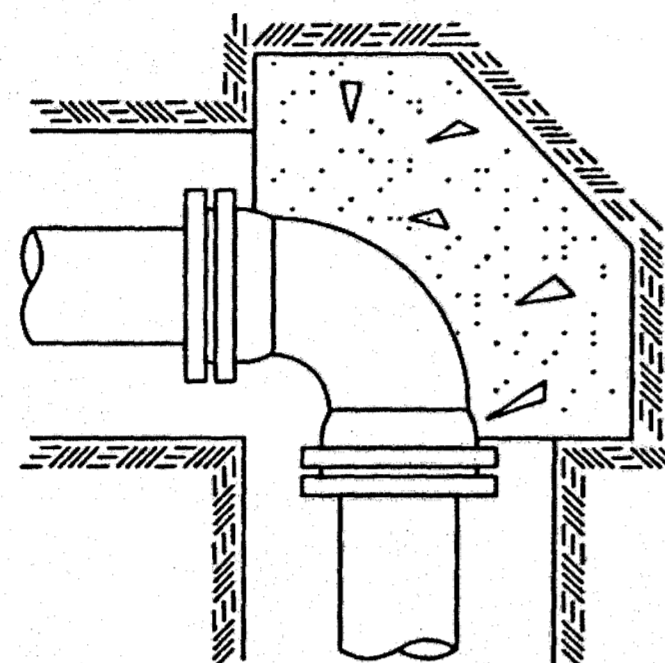
TEE



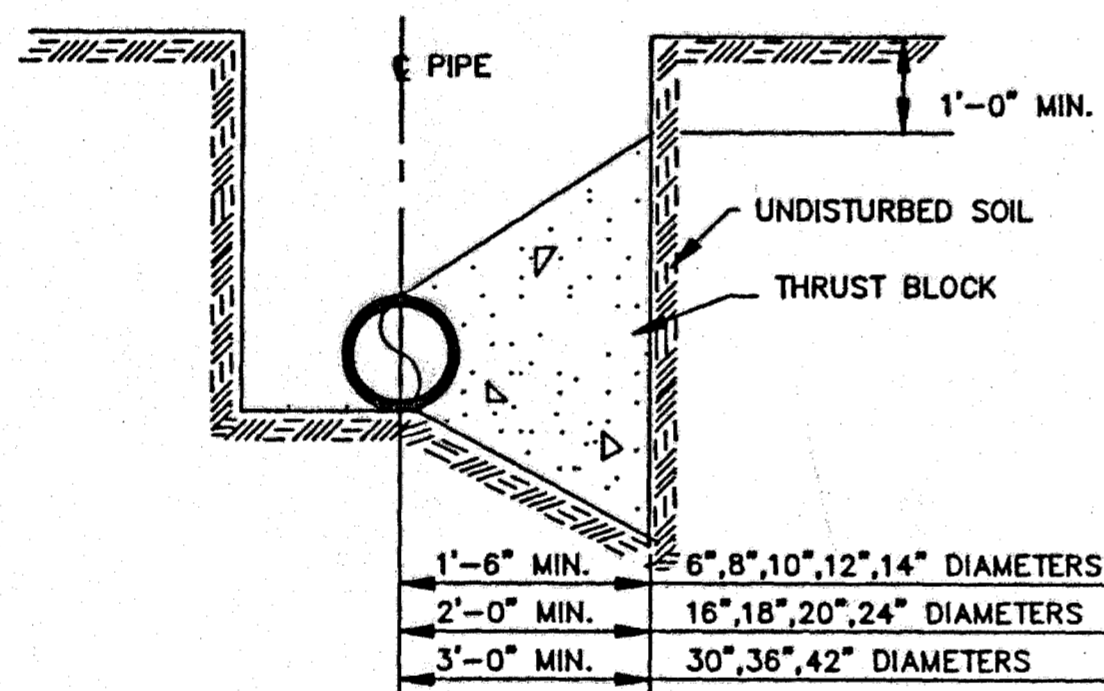
VERTICAL BENDS



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

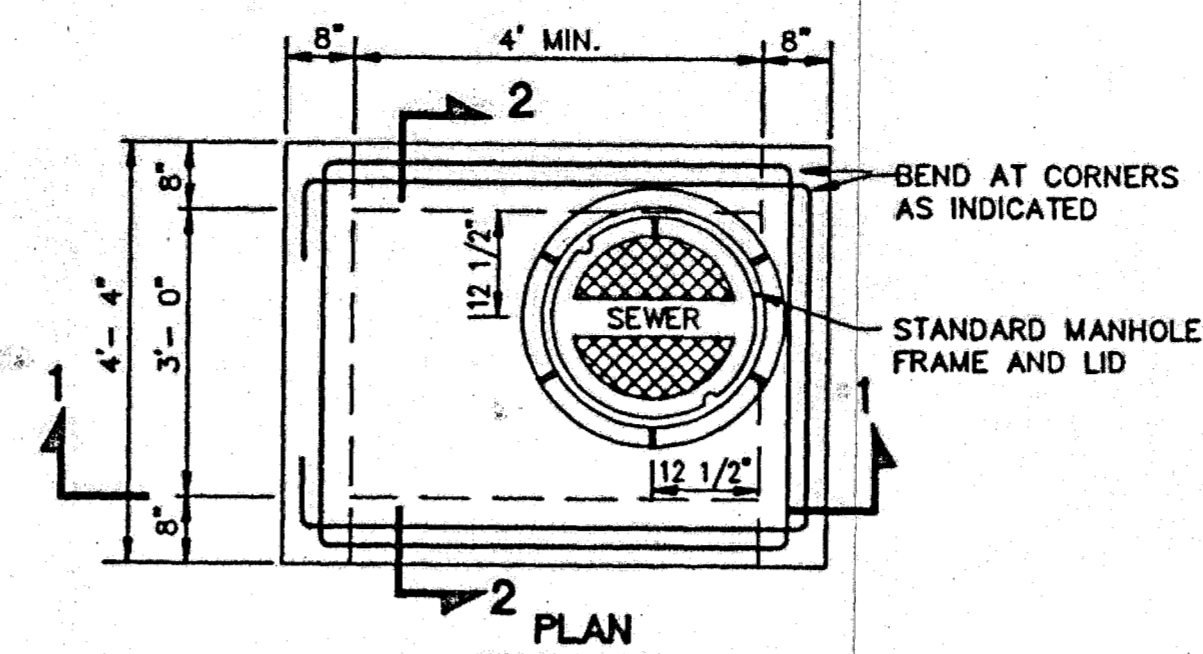
**BEARING AREA IN SQ. FT.**

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)

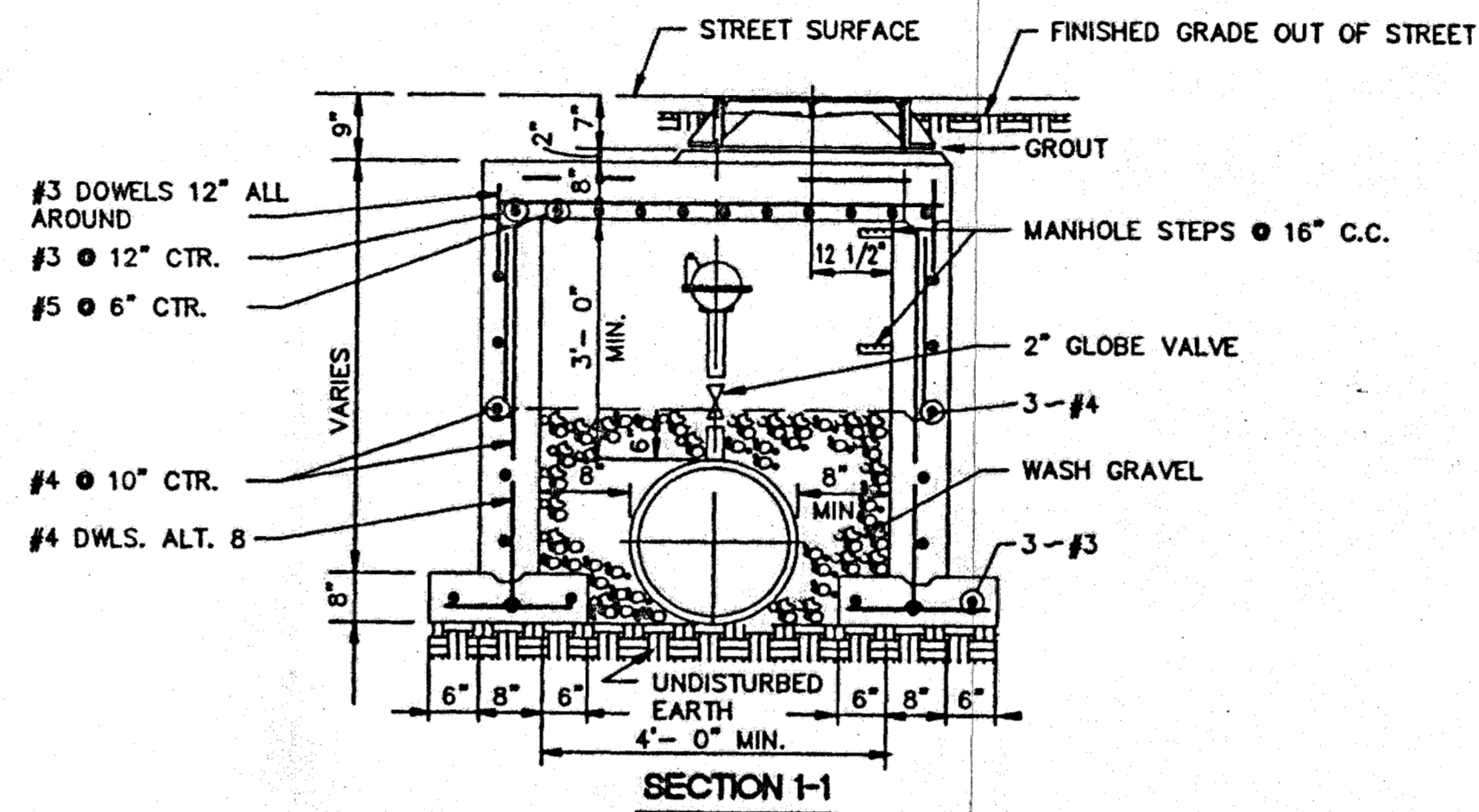
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

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.

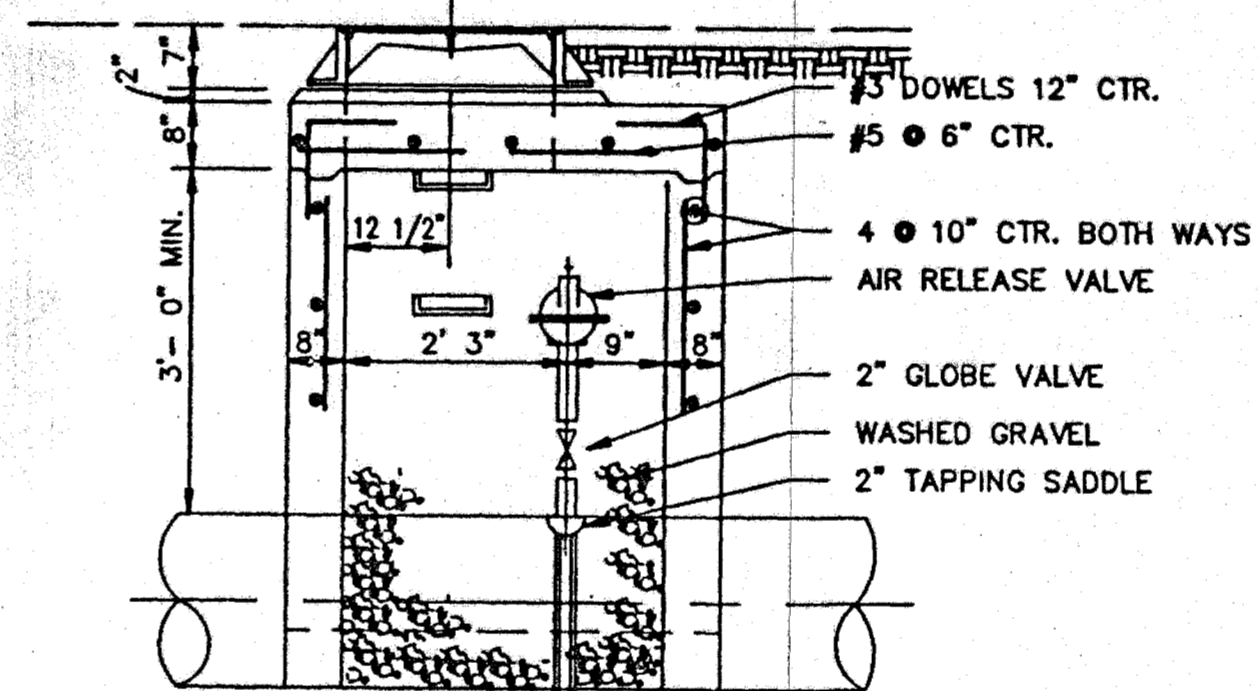
NOTE:  
ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



PLAN



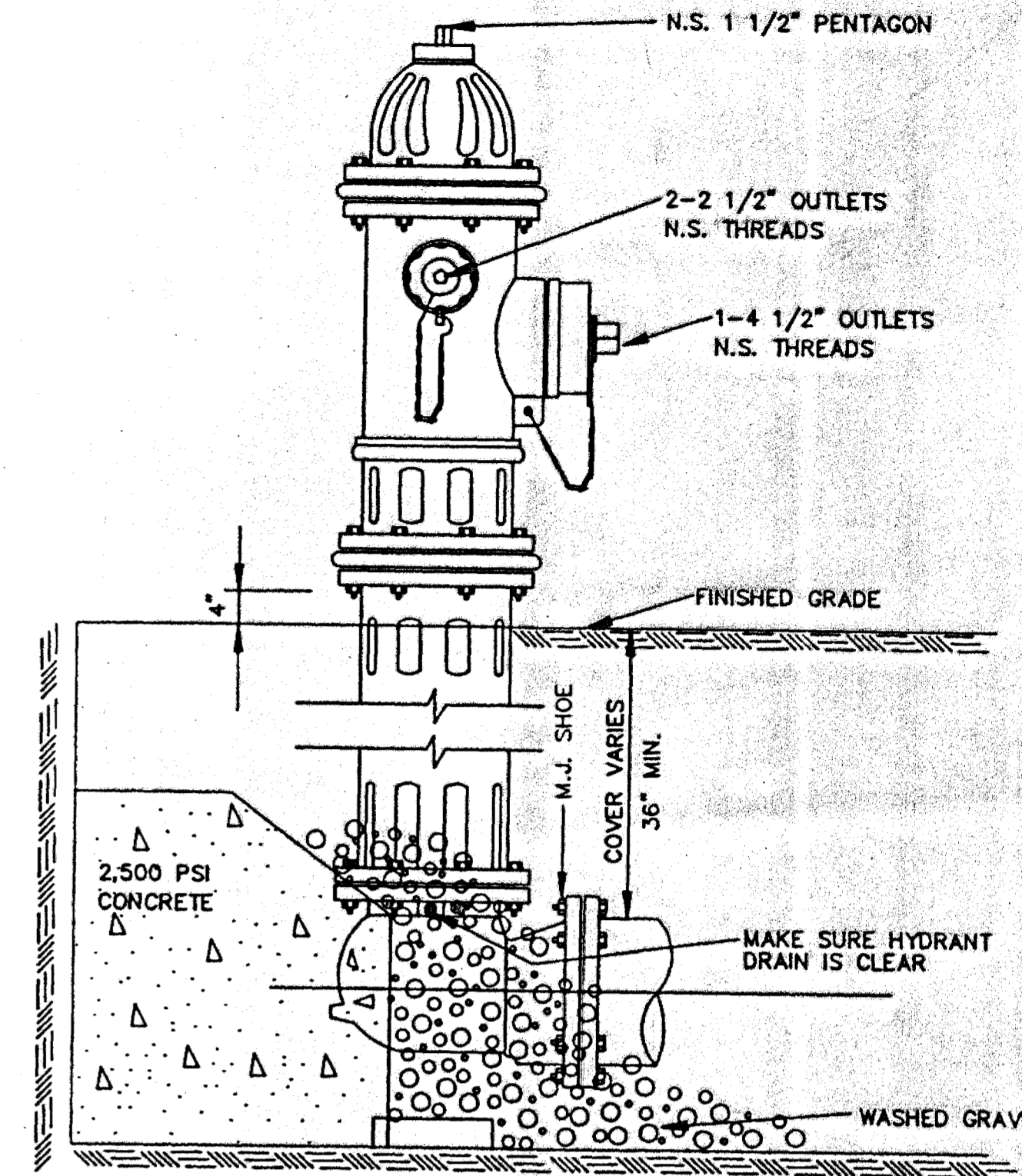
SECTION 1-1



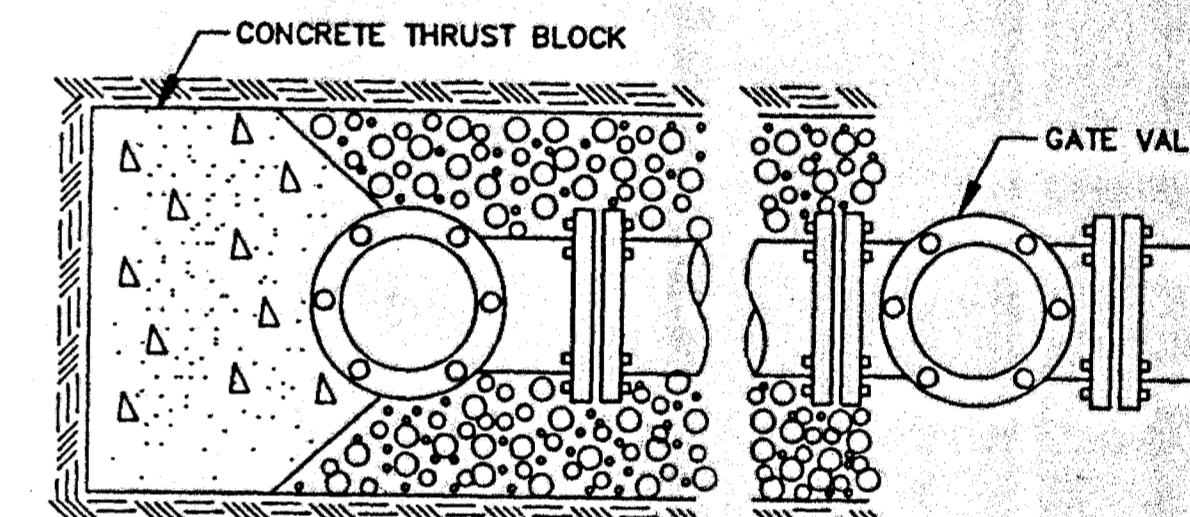
SECTION 2-2

**TYPICAL AIR OR AIR VACCUUM RELEASE VALVE INSTALLATION WITH MANHOLE**

NOT TO SCALE



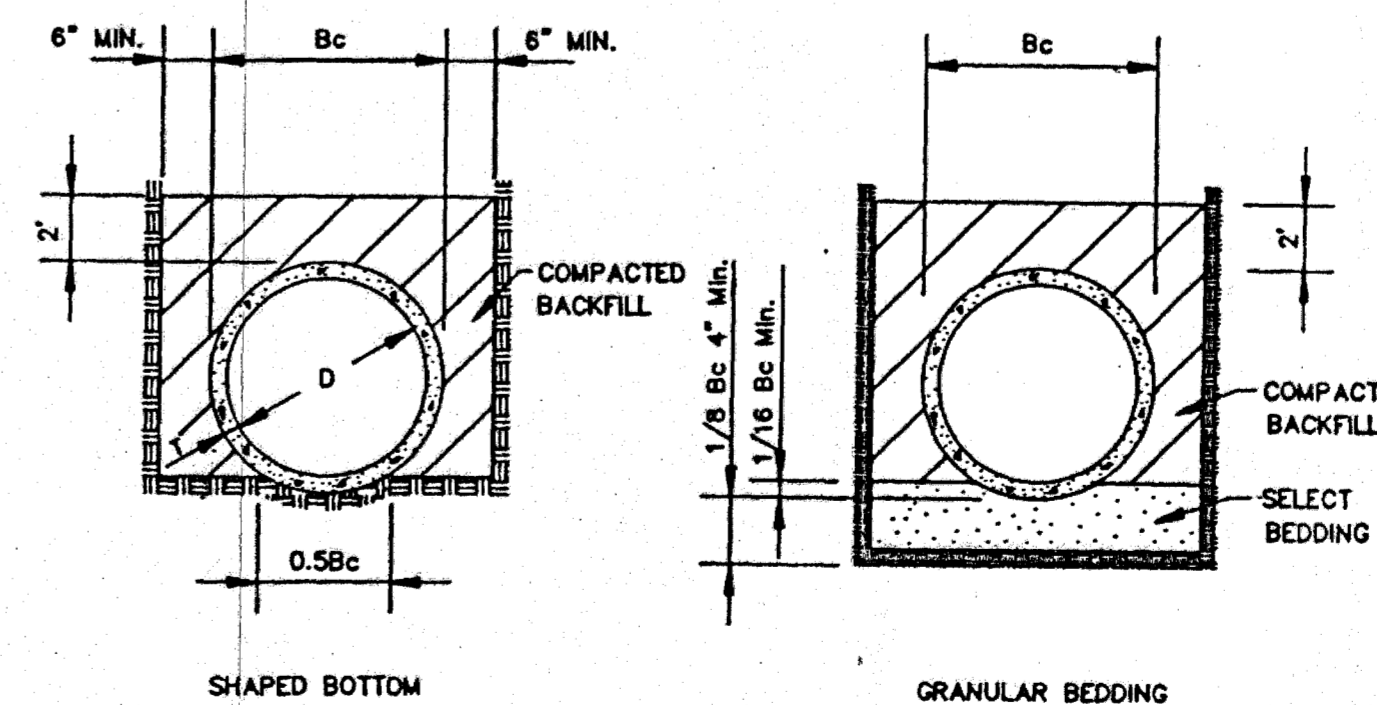
ELEVATION



PLAN

**TYPICAL FIRE HYDRANT INSTALLATION**

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



**TYPICAL TRENCH DETAILS**

N.T.S.

CITY OF RIDGELAND, MS.

**STANDARD DETAILS**

DEGN:	SV	THE CITY OF RIDGELAND	DRAWING NO.
DRWN:	BRM		6 of 6
CHKD:	SV		
SCALE:	N.T.S.		