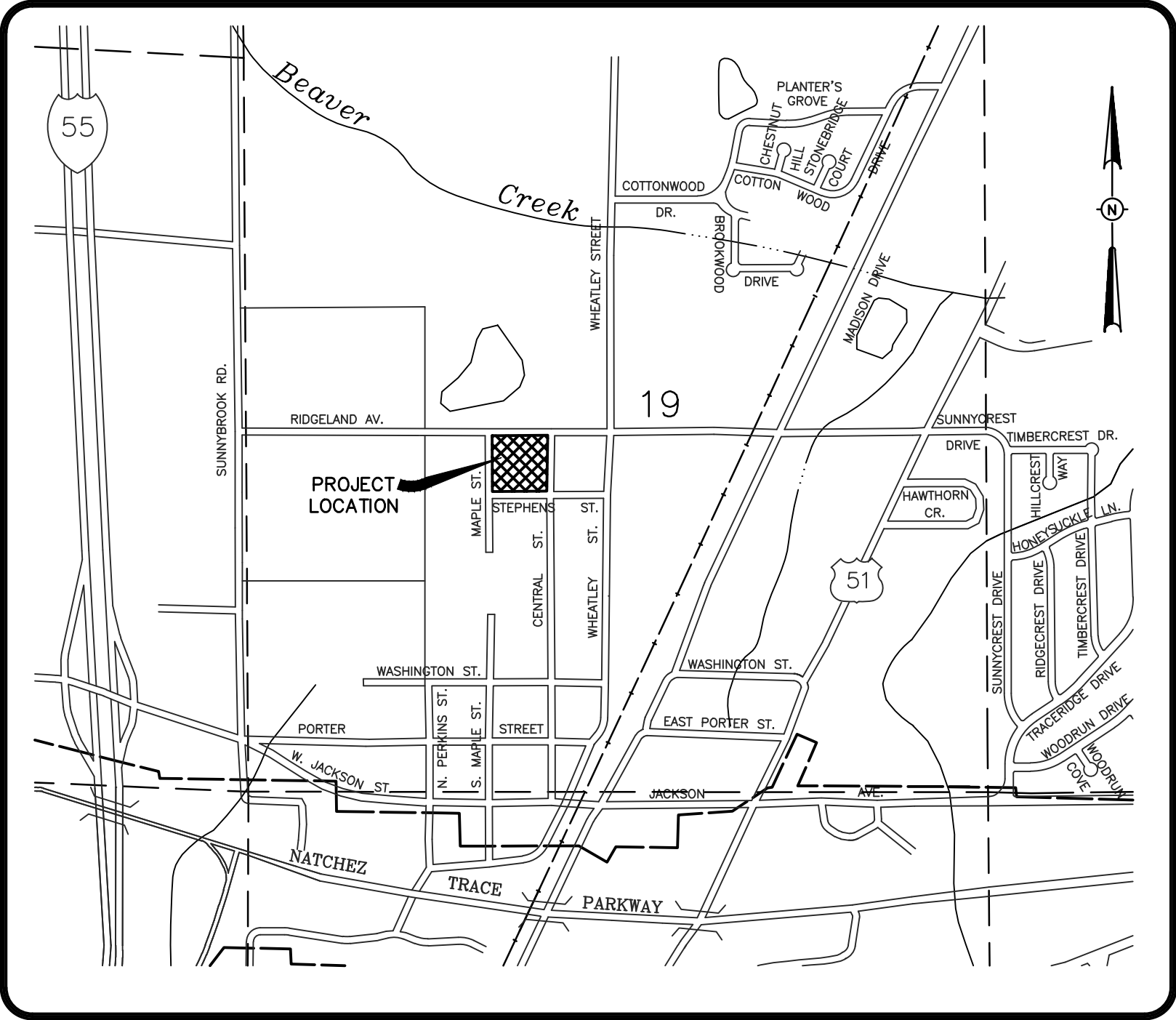


# RECORD DRAWINGS FOR OLDE MAPLE



**VICINITY MAP**

**DRAWING INDEX**

- 1 - COVER SHEET
- 2 - GEOMETRIC LAYOUT
- 3 - DRAINAGE AND GRADING LAYOUT
- 3A - DETENTION POND DETAILS
- 4 - AS-BUILT SEWER AND WATER SERVICE LAYOUT
- 4A - SEWER A PROFILE & SEWER B PROFILE
- 5 - EROSION, SEDIMENT AND STORMWATER CONTROL PLAN
- 6 - STANDARD SANITARY SEWER DETAILS
- 7 - STANDARD STORM SEWER DETAILS
- 8 - STANDARD WATER DETAILS

DRAWING NO.

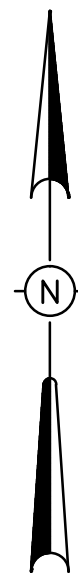
**H D LANG AND ASSOCIATES, INC.**  
POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
601-362-4886

DEVELOPER  
**OLDE MAPLE, LLC**  
607 HIGHLAND COLONY PARKWAY  
SUITE 200  
RIDGELAND, MISSISSIPPI 39157

LOCATION  
**BEING BLOCK 4,  
CITY OF RIDGELAND,  
MADISON COUNTY, MISSISSIPPI**

DATE	REVISION	BY	DRAWN BY: JBH
01-29-16	CITY COMMENTS	JBH	DATE: 12-2-15
03-14-16	CITY COMMENTS	JBH	SCALE: NTS
7-26-16	RECORD DRAWINGS	D.L.M.	BOOK: PAGE:
			PROJECT NO.: 15-029

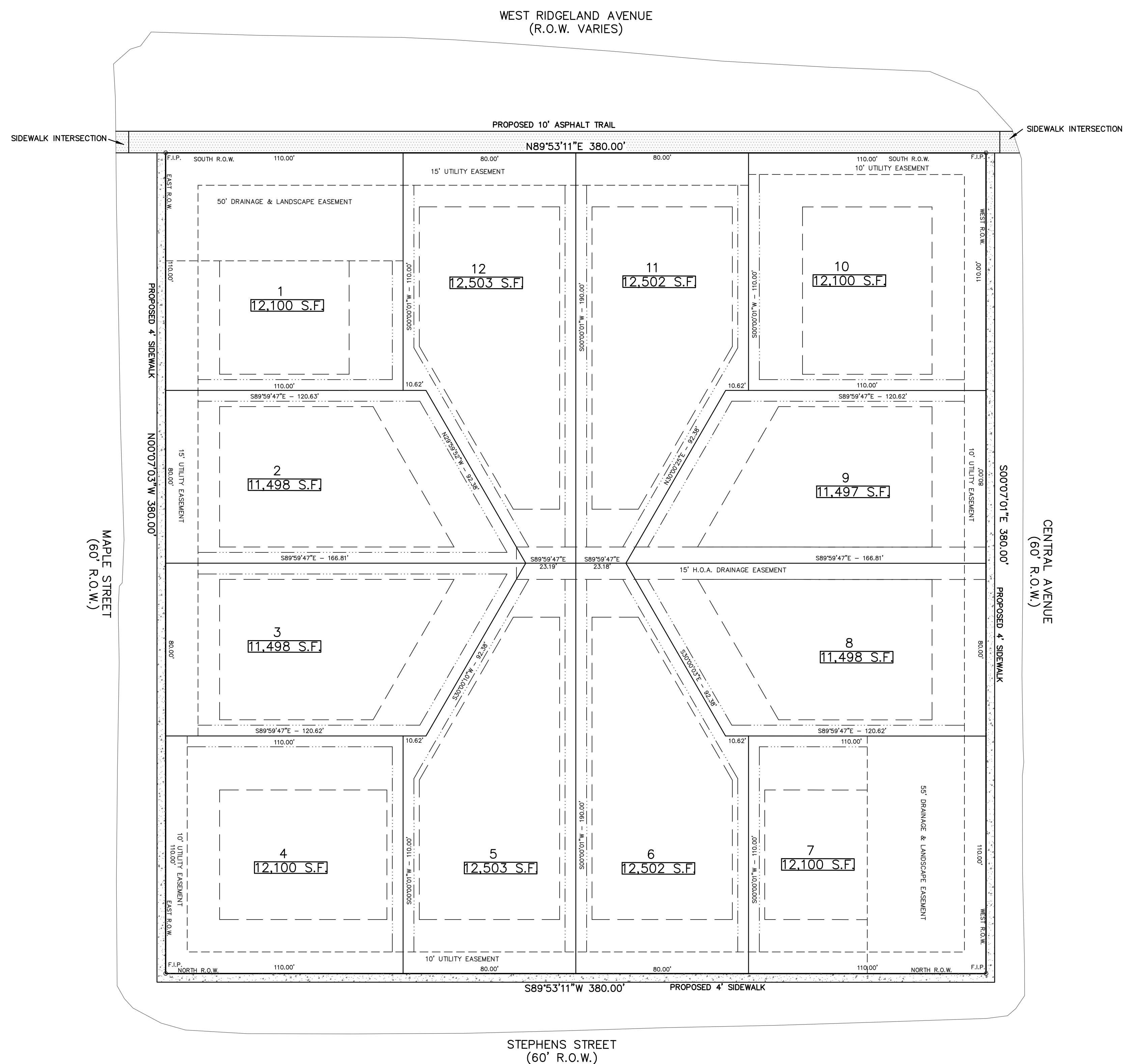
SHEET  
**1**



GRAPHIC SCALE



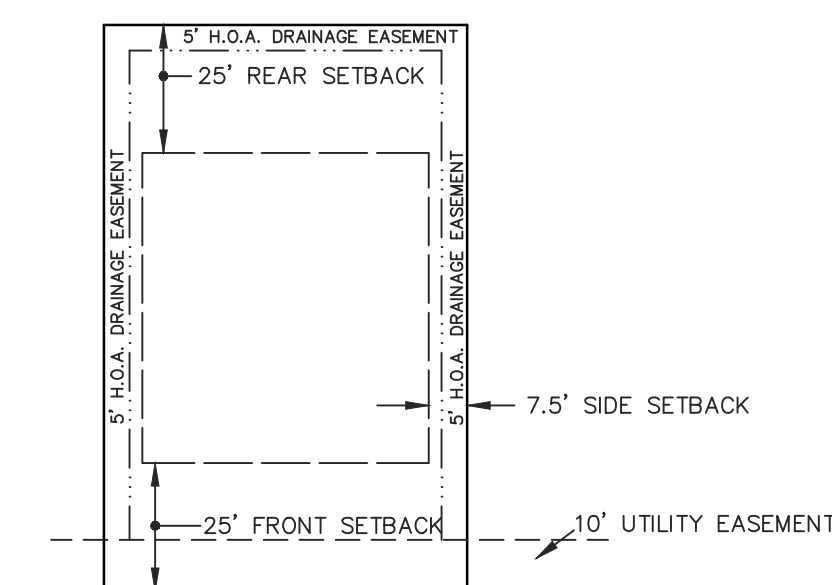
( IN FEET )  
1 inch = 30 ft.



**SIDEWALK NOTES:**

1. ALL CONCRETE AND ASPHALT PAVEMENT FOR SIDEWALK USE SHALL BE INSTALLED USING THE CURRENT A.D.A. STANDARDS, SUBDIVISION COVENANTS AND CITY OF RIDGELAND OLDE TOWNE DECORATIVE FINISHES.
2. SIDEWALK RAMPS AND SIDEWALK INTERSECTIONS WITH ROADWAYS SHALL MATCH NEARBY OLDE TOWNE DECORATIVE CONCRETE FINISHES. RED BRICK STAMPED CONCRETE WITH GREY COLORED DETECTABLE WARNING PADS.
3. MAXIMUM CROSS SLOPE FOR SIDE WALKS AND ASPHALT TRAIL IS 2%.
3. MAXIMUM RUNNING SLOPE FOR SIDE WALKS 5% UNLESS A LANDING AREA IS INSTALLED IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS.

MATHEMATICAL CLOSURE:  
 ERROR OF CLOSURE: 0.00368  
 PERIMETER: 1,520  
 PRECISION: 0.00000242  
 GREATER THAN 1/100,000



**LOT NUMBER SIGNS NOTE:**

EACH LOT SHALL CONTAIN LOT NUMBER SIGNS MOUNTED ON METAL POSTS LOCATED IN THE CENTER OF EACH LOT TO IDENTIFY AND LOCATE THE ADDRESS OF EACH INDIVIDUAL LOT.

**CONSTRUCTION ENTRANCE/HAUL NOTE:**

THE CONSTRUCTION ENTRANCE SHALL BE LOCATED ON RIDGELAND AVENUE IN FRONT OF LOT 10. THE ALLOWABLE HAUL ROUTE SHALL BE FROM I-55 TO EAST FRONTAGE ROAD TO RIDGELAND AVENUE AND BACK. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED ON MAPLE STREET, STEPHENS STREET OR CENTRAL AVENUE.

NOTES:  
THIS PARCEL OF LAND MAY BE SUBJECT TO THE FOLLOWING:

1. AREA = 3.31 ACRES (MORE OR LESS)
2. THIS PROPERTY ZONED R-2.
3. LOT 1 AND 7 CONTAIN A DRAINAGE AND LANDSCAPE EASEMENT THAT WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
4. CONCRETE SIDEWALK INSTALLED BY THE HOME BUILDER SHALL BE 4 INCHES THICK 3,000 PSI CONCRETE AND INSTALLED IN ACCORDANCE WITH THE CURRENT A.D.A. STANDARDS AND THE SUBDIVISION COVENANTS.
5. 10' ASPHALT TRAIL INSTALLED BY THE HOME BUILDER SHALL MEET THE CITY OF RIDGELANDS CURRENT ASPHALT TRAIL PAVEMENT THICKNESS DESIGN.
6. 10' ASPHALT TRAIL INSTALLED BY THE HOME BUILDER SHALL CONNECT TO THE PROPOSED CONCRETE SIDEWALKS AND TO MAPLE STREET AND CENTRAL AVENUE.
7. THE HOMEOWNERS ASSOCIATION WILL PROVIDE MAINTENANCE TO THE 15' H.O.A. DRAINAGE EASEMENT. THE CITY WILL MAINTAIN ALL AREAS IN ROAD RIGHT OF WAY.

DRAWING NO.

H D LANG AND ASSOCIATES, INC.

POST OFFICE BOX 16085

JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT

OLDE MAPLE

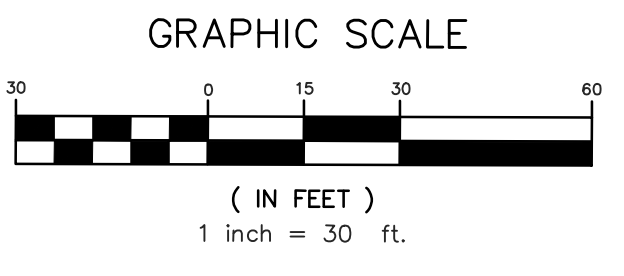
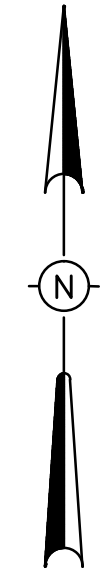
DESCRIPTION

GEOMETRIC LAYOUT

DATE	REVISION	BY	DRAWN BY: JBH
01-29-16	CITY COMMENTS	JBH	DATE: 12-2-15
03-07-16	CITY COMMENTS	JBH	SCALE: 1" = 30'
7-26-16	RECORD DRAWINGS	D.L.M.	BOOK: PAGE:
			PROJECT NO.: 15-029

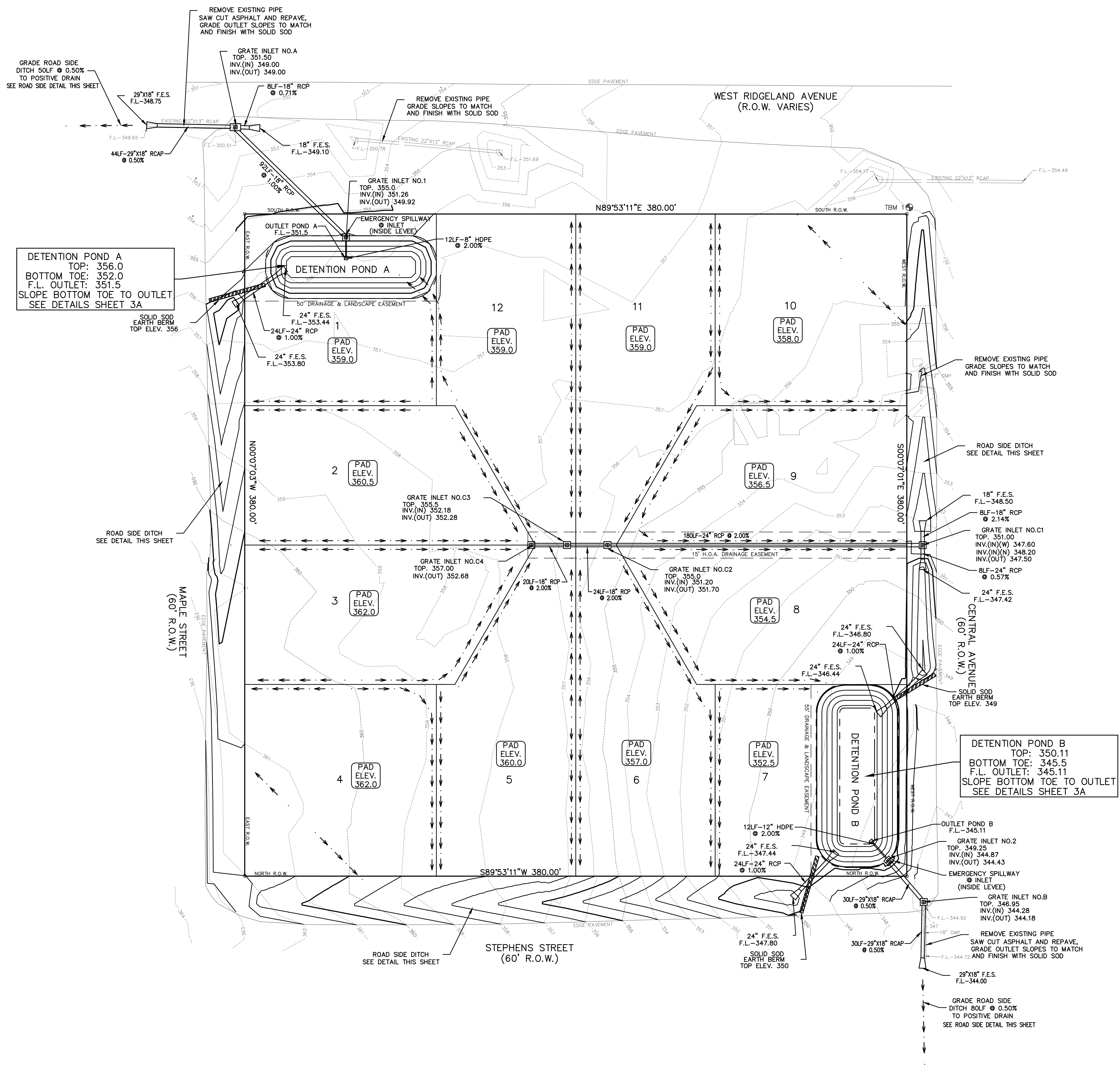
SHEET

2

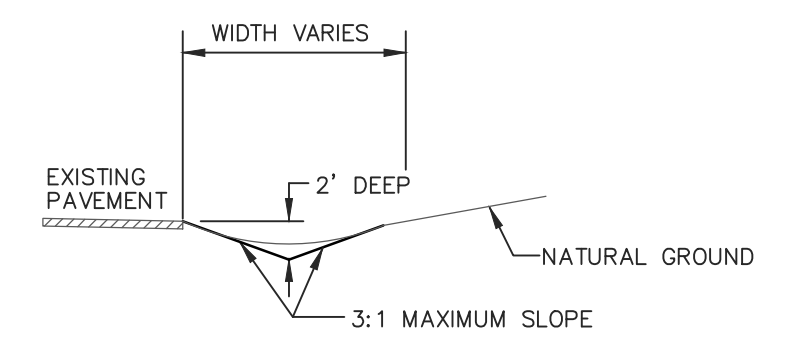


MIN. DRIVEWAY CULVERT SIZE

LOT #	PIPE SIZE
1	24" RCP
2	18" RCP
3	15" RCP
4	15" RCP
5	18" RCP
6	18" RCP
7	24" RCP
8	24" RCP
9	18" RCP
10	18" RCP
11	18" RCP
12	18" RCP

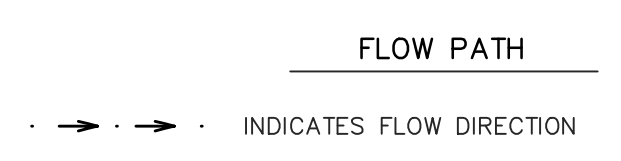


**CONSTRUCTION ENTRANCE/HAUL NOTE:**  
 THE CONSTRUCTION ENTRANCE SHALL BE LOCATED ON RIDGELAND AVENUE IN FRONT OF LOT 10. THE ALLOWABLE HAUL ROUTE SHALL BE FROM I-55 TO EAST FRONTAGE ROAD TO RIDGELAND AVENUE AND BACK. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED ON MAPLE STREET, STEPHENS STREET OR CENTRAL AVENUE.



**TYPICAL SECTION ROAD SIDE DITCH DETAIL**

**ROADSIDE DITCH NOTE:**  
 1. ANY ROADSIDE DITCH OR SLOPE THAT IS DISTURBED DURING CONSTRUCTION MUST BE GRADED TO PROVIDE POSITIVE DRAINAGE AND MATCH CONNECTING SIDE SLOPES, AND THEN FINISHED WITH SOLID SOD.



**TBM SCHEDULE**

TBM 1: FLANGE BOLT ON FIRE HYDRANT ELEVATION - 359.10  
 ELEVATIONS REFERENCED TO NAVD 88 REFERENCE MARKER R-54 ELEV. 339.53  
 DATE OF SURVEY: 04-06-15

- NOTES:**
1. THIS PROPERTY LIES WITHIN THE LIMITS ESTABLISHED FOR ZONE "X" (NO SHADING) ACCORDING TO FIRM MAP NUMBER 28089C0567 F EFFECTIVE MARCH 17, 2010.
  2. LOT 1 AND 7 CONTAIN A DRAINAGE AND LANDSCAPE EASEMENT THAT WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
  3. THE OWNERSHIP OF THE DETENTION PONDS WILL REMAIN PRIVATE AND THE HOMEOWNERS ASSOCIATION WILL PROVIDE MAINTENANCE.
  4. THE HOMEOWNERS ASSOCIATION WILL PROVIDE MAINTENANCE TO THE 15' H.O.A. DRAINAGE EASEMENT. THE CITY WILL MAINTAIN ALL AREAS IN ROAD RIGHT OF WAY.

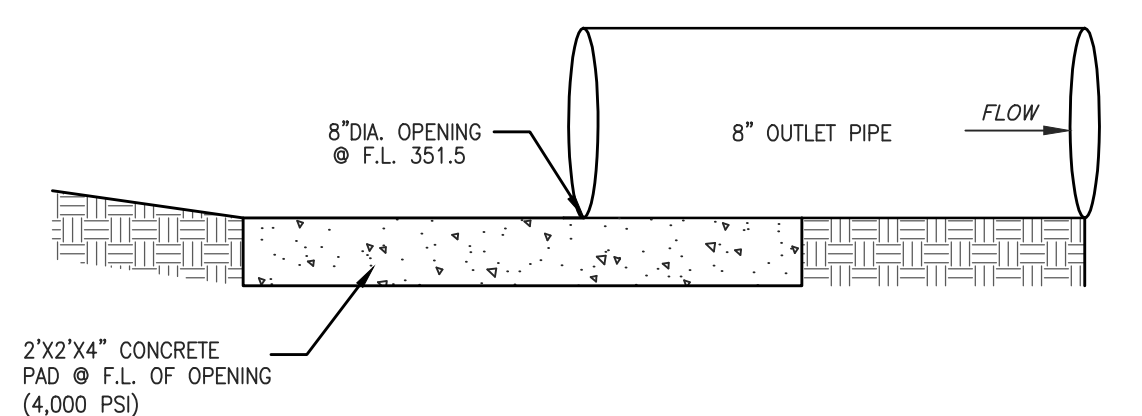
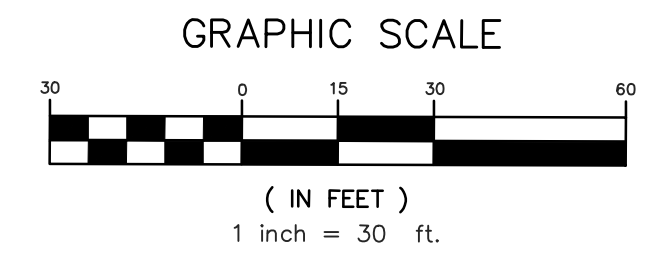
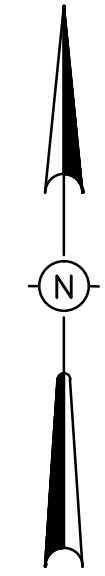
DRAWING NO.

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 601-362-4886

PROJECT: **OLDE MAPLE DRAINAGE AND GRADING LAYOUT**

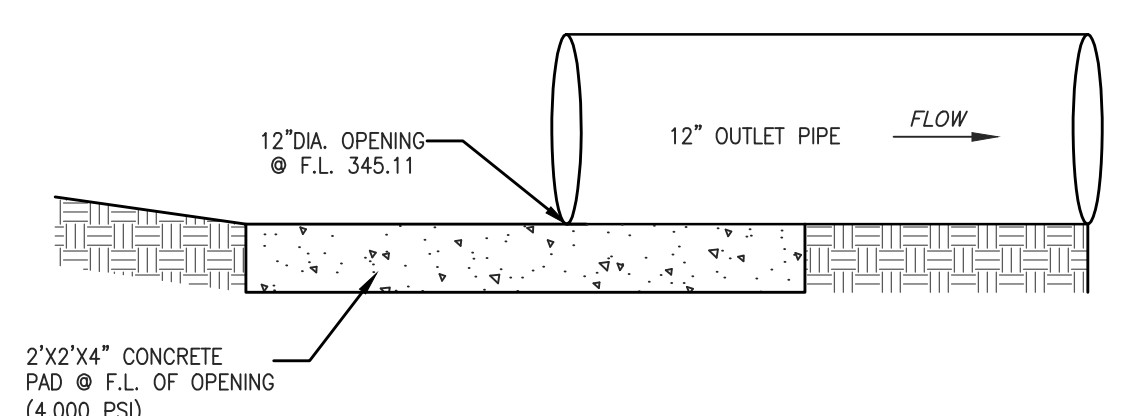
DATE	REVISION	BY	DRAWN BY: JBH
01-29-16	CITY COMMENTS	JBH	DATE: 12-2-15
03-07-16	CITY COMMENTS	JBH	SCALE: 1" = 30'
03-14-16	CITY COMMENTS	JBH	BOOK: PAGE:
7-26-16	RECORD DRAWINGS	D.L.M.	PROJECT NO.: 15-029

SHEET **3**



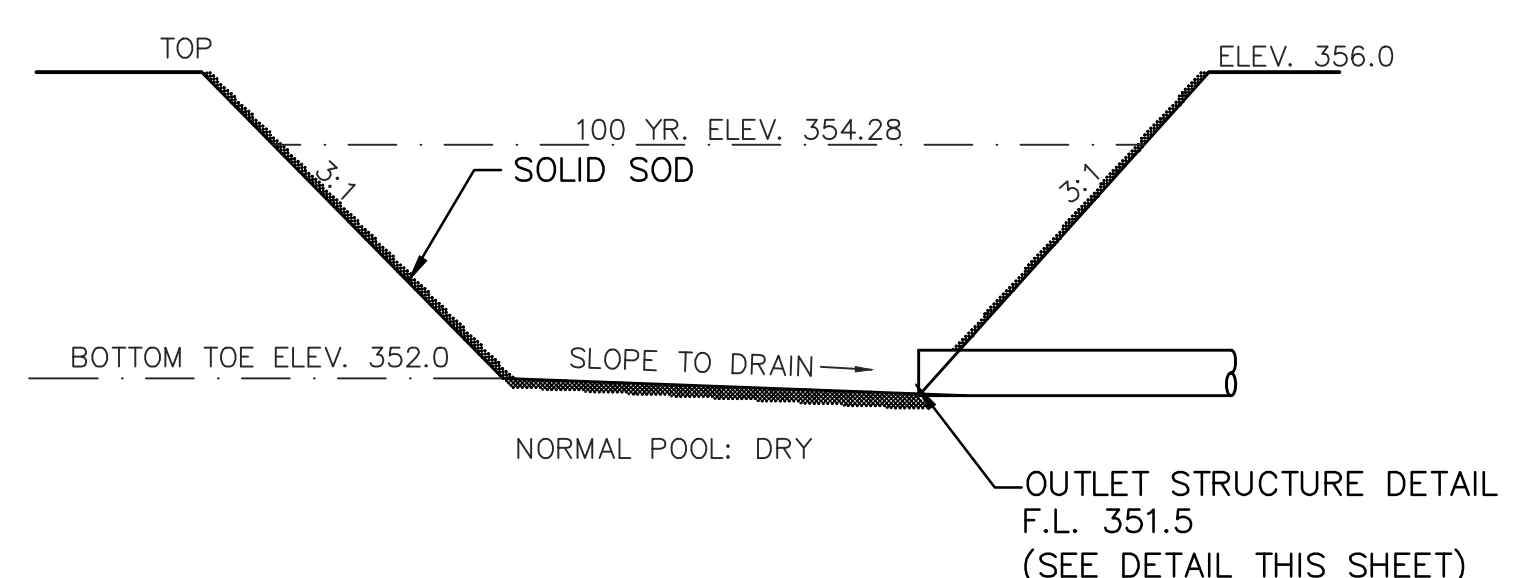
DETENTION POND A OUTLET STRUCTURE

- NOTES:
- POUR ALL CONCRETE PADS CONTINUOUSLY.
  - SLOPE BOTTOM OF POND TOE TO DRAIN TO OUTLET STRUCTURE.



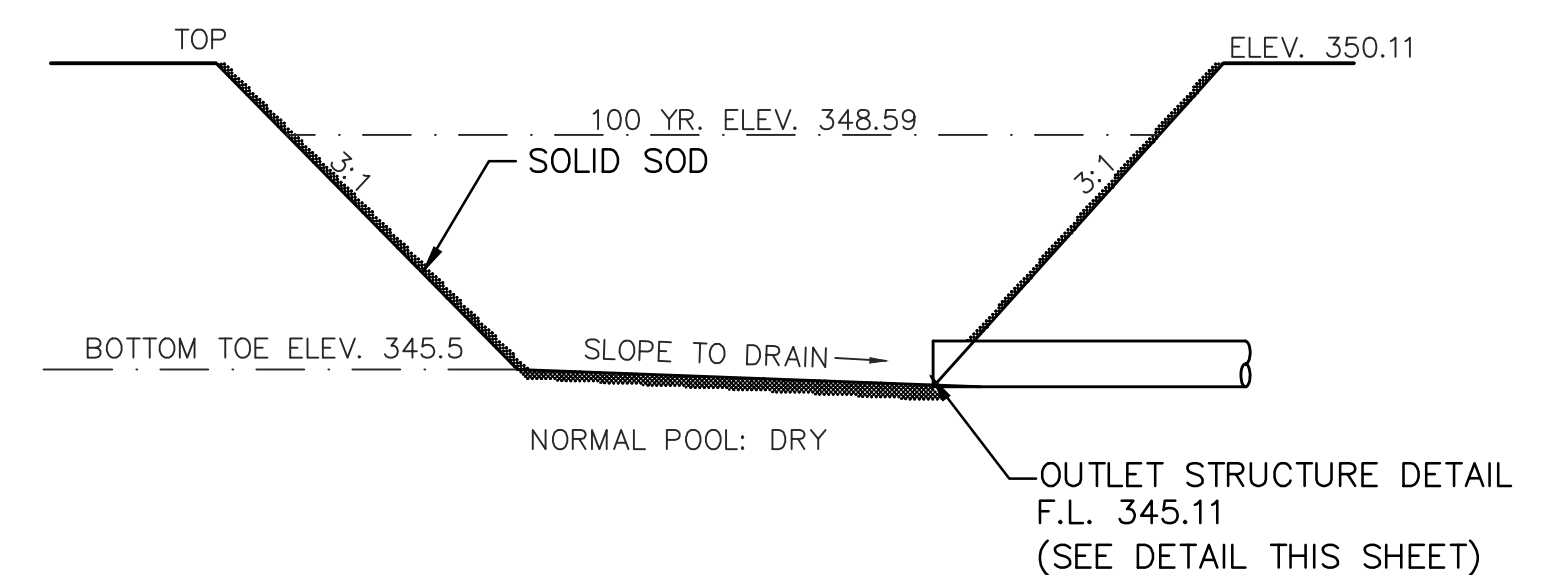
DETENTION POND B OUTLET STRUCTURE

- NOTES:
- POUR ALL CONCRETE PADS CONTINUOUSLY.
  - SLOPE BOTTOM OF POND TOE TO DRAIN TO OUTLET STRUCTURE.



DETENTION POND A DETAIL

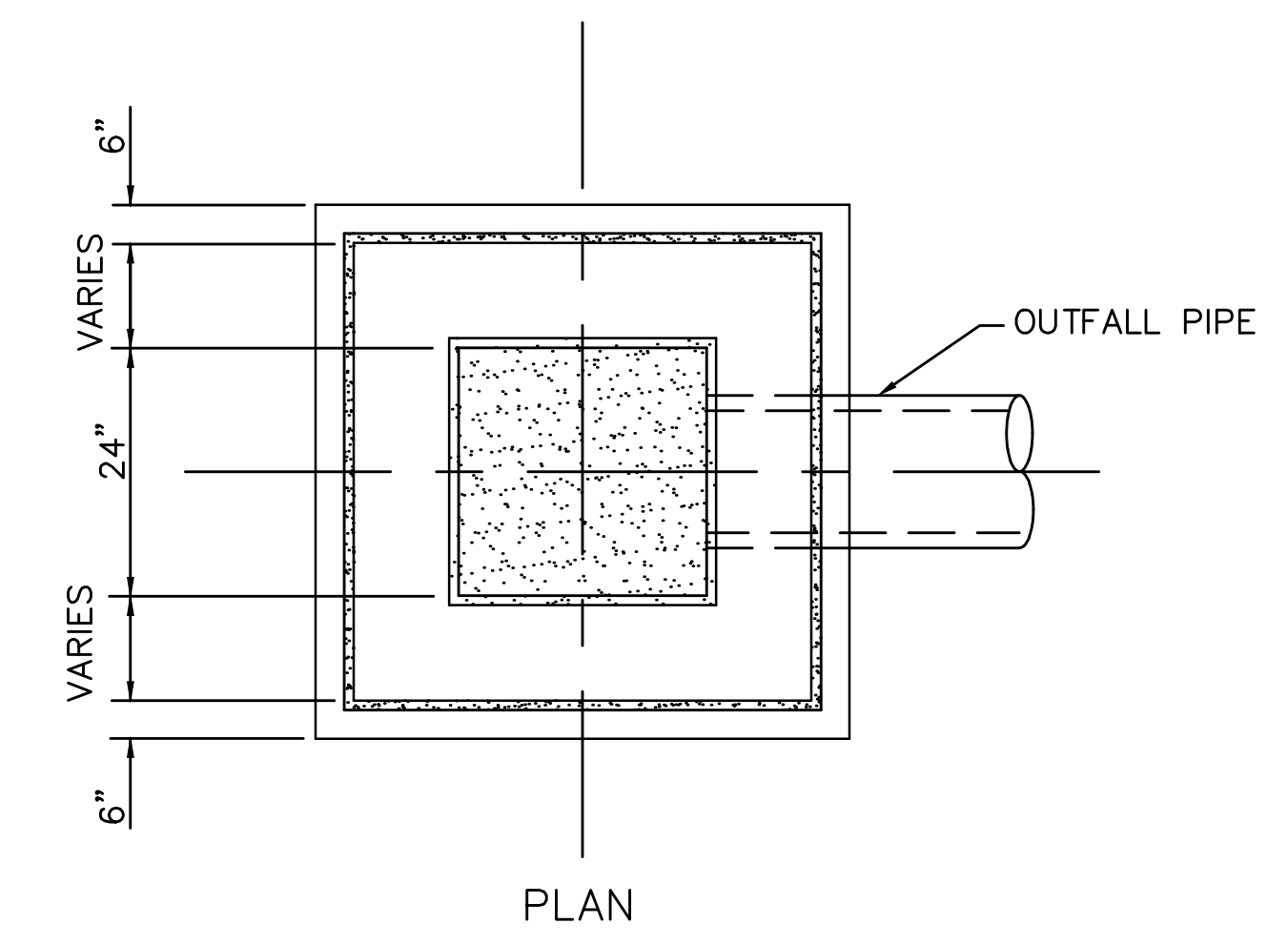
- NTS
- DETENTION POND NOTES:
- DETENTION POND CONTAINS 8,400 CUBIC FEET OF STORAGE.
  - DETENTION POND TOP AREA: 98' X 36'.
  - DETENTION POND TOE AREA: 74' X 12'.



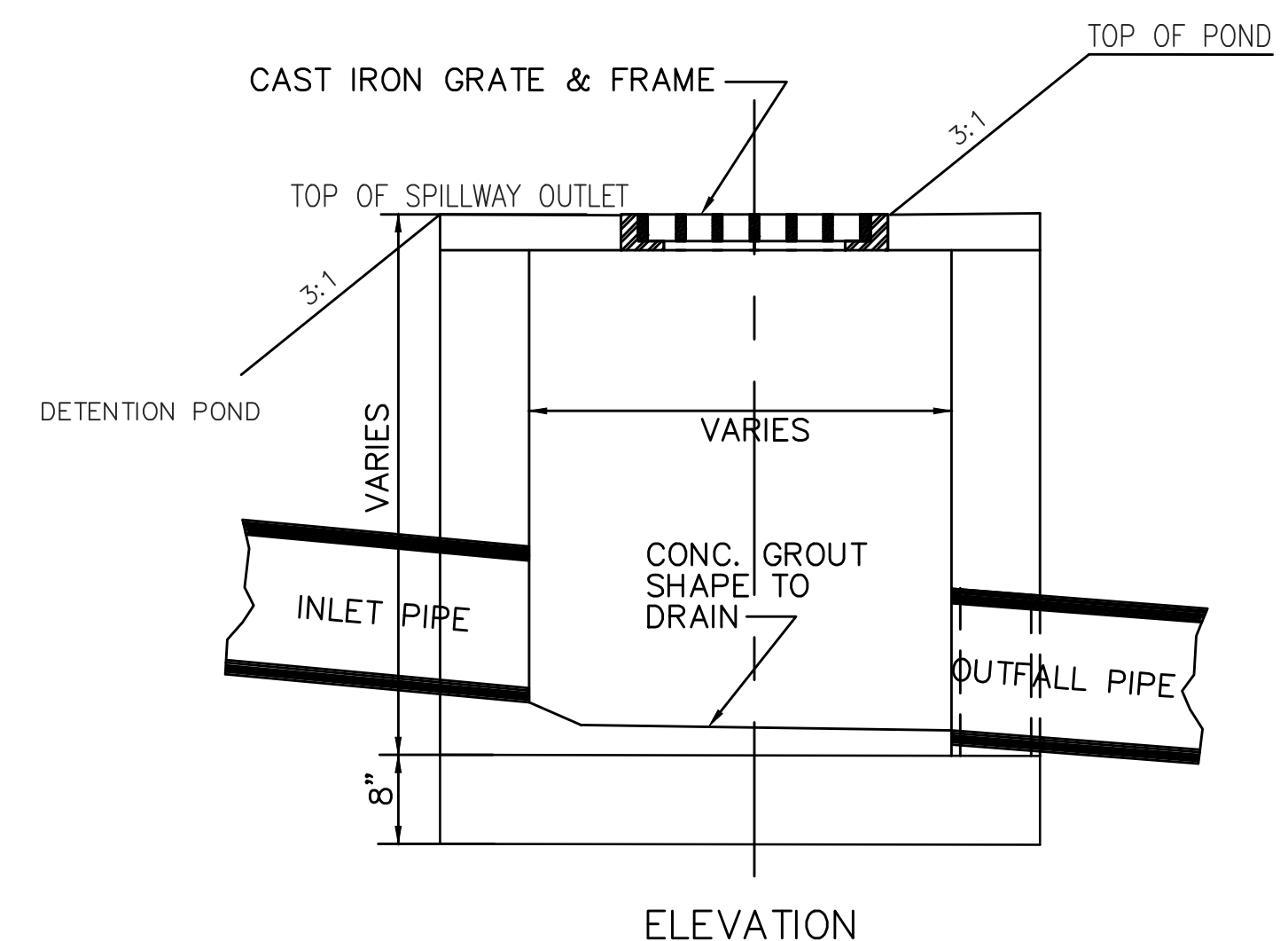
DETENTION POND B DETAIL

- NTS
- DETENTION POND NOTES:
- DETENTION POND CONTAINS 14,040 CUBIC FEET OF STORAGE.
  - DETENTION POND TOP AREA: 105' X 47'.
  - DETENTION POND TOE AREA: 78' X 20'.

EMERGENCY SPILLWAY INLET DETAILS



PLAN



ELEVATION

- NOTES:
- CONCRETE SHALL BE 4,000 PSI IN 28 DAYS.
  - REINFORCING STEEL SHALL MEET ASTM A-615, GRADE 60.
  - REINFORCING TO MEET AASHTO HS 20-44 LOADING.

DRAWING NO.

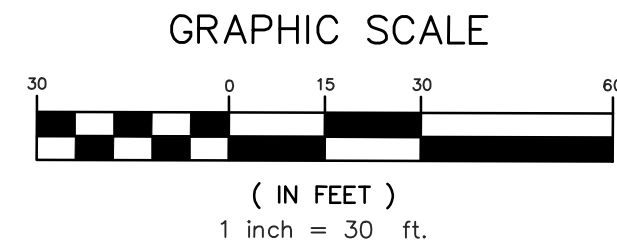
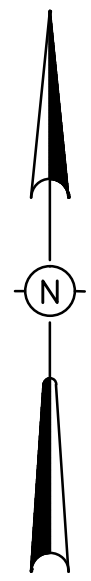
**H D LANG AND ASSOCIATES, INC.**  
 POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
 601-362-4886

PROJECT  
**OLDE MAPLE**

DETENTION POND  
 DETAILS

DATE	REVISION	BY	DRAWN BY: JBH
03-07-16	CITY COMMENTS	JBH	DATE: 01-29-16
7-26-16	RECORD DRAWINGS	D.L.M.	SCALE: 1" = 30'
			BOOK: PAGE:
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SHEET  
**3A**

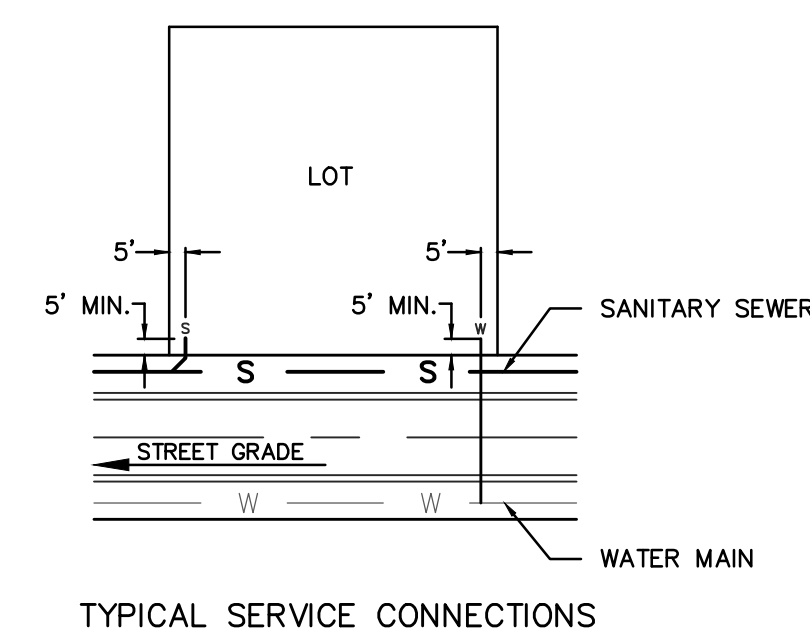


**WATER AND SEWER SERVICE TAP LOCATION COORDINATES**

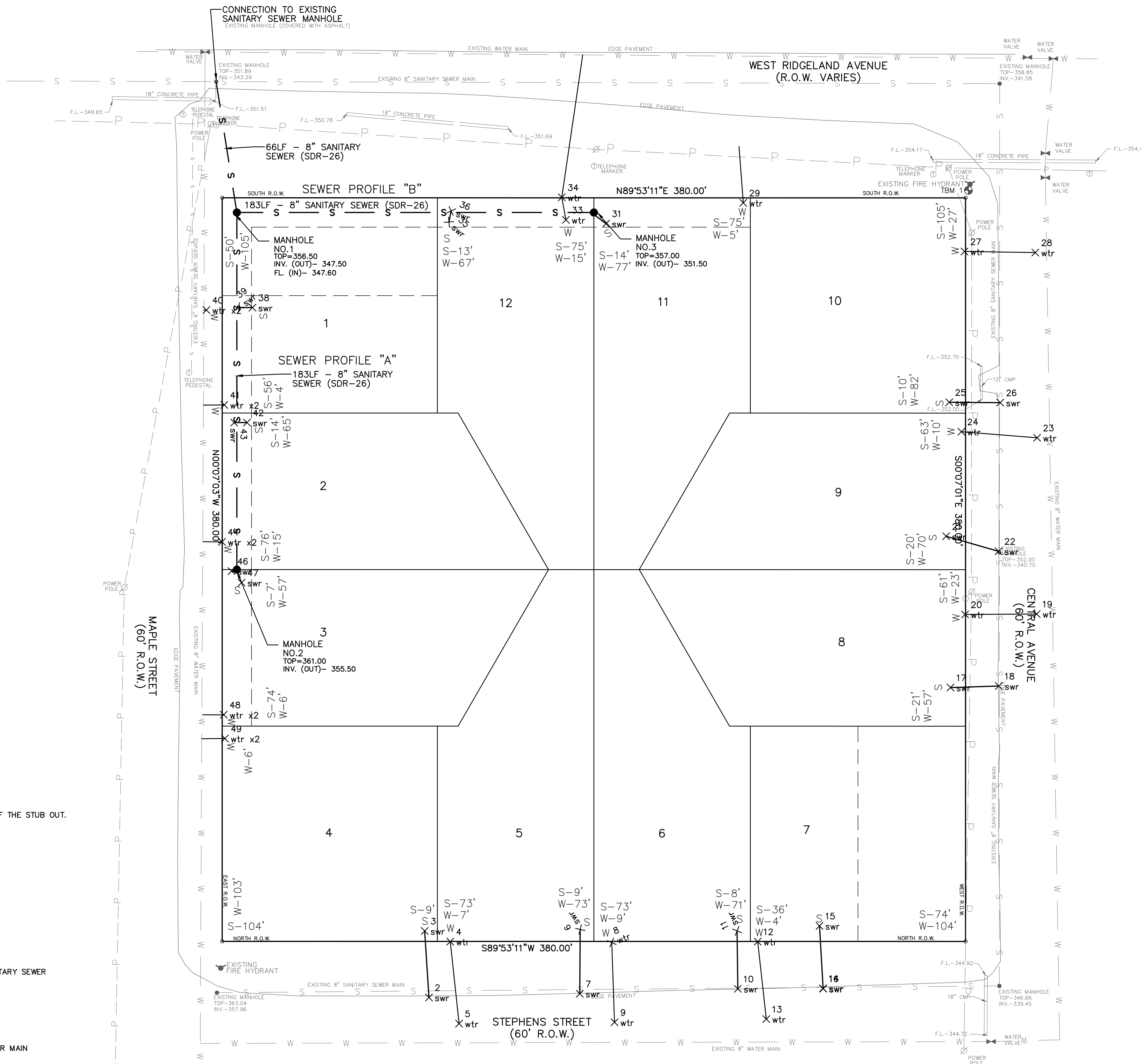
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- 3. LA32.260525606, LN-90.080424738
- 4. LA32.260520246, LN-90.080409477
- 5. LA32.260478801, LN-90.080404119
- 6. LA32.260526539, LN-90.08033198
- 7. LA32.260494025, LN-90.080332167
- 8. LA32.260519942, LN-90.080313168
- 9. LA32.26047963, LN-90.080311402
- 10. LA32.260496962, LN-90.08023791
- 11. LA32.260525939, LN-90.080238598
- 12. LA32.260520557, LN-90.080226097
- 13. LA32.260481406, LN-90.080220863
- 14. LA32.260496997, LN-90.080187078
- 15. LA32.260528577, LN-90.080189257
- 16. LA32.260496829, LN-90.080186991
- 17. LA32.260649229, LN-90.08011139
- 18. LA32.260650044, LN-90.080082603
- 19. LA32.260686499, LN-90.080060078
- 20. LA32.260686187, LN-90.080102797
- 21. LA32.260725709, LN-90.080114184
- 22. LA32.260718196, LN-90.080082937
- 23. LA32.260775607, LN-90.08006005
- 24. LA32.260778601, LN-90.080105241
- 25. LA32.260793496, LN-90.080112519
- 26. LA32.260793344, LN-90.080082107
- 27. LA32.260869762, LN-90.080103604
- 28. LA32.260869266, LN-90.080061352
- 29. LA32.260894111, LN-90.080235598
- 30. LA32.260970487, LN-90.080235459
- 31. LA32.26088346, LN-90.080317466
- 33. LA32.260885319, LN-90.080341384
- 34. LA32.260896704, LN-90.080343861
- 35. LA32.260884125, LN-90.080411126
- 36. LA32.260889734, LN-90.080409833
- 38. LA32.260840631, LN-90.080528232
- 39. LA32.260840697, LN-90.080536245
- 40. LA32.260839359, LN-90.08055674
- 41. LA32.260791404, LN-90.080544938
- 42. LA32.260782492, LN-90.080531364
- 43. LA32.26078246, LN-90.080538933
- 44. LA32.260722149, LN-90.080546149
- 46. LA32.260707358, LN-90.080540377
- 47. LA32.260701531, LN-90.08053438
- 48. LA32.260634735, LN-90.080544866
- 49. LA32.260622717, LN-90.080544129

**COORDINATE NOTES:**

- 1. COORDINATES SHOWN ARE LATITUDE AND LONGITUDE.
- 2. COORDINATES SHOWN FOR EACH TAP IS AT THE END OF THE STUB OUT.



NOTE:  
THE CONTRACTOR SHALL PROVIDE A 6" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER. WATER SERVICE PROVIDED BY THE CITY OF RIDGELAND. SEE "CONNECTION TO EXISTING WATER MAIN NOTE" THIS SHEET.



**CONSTRUCTION ENTRANCE/HAUL NOTE:**

THE CONSTRUCTION ENTRANCE SHALL BE LOCATED ON RIDGELAND AVENUE IN FRONT OF LOT 10. THE ALLOWABLE HAUL ROUTE SHALL BE FROM I-55 TO EAST FRONTAGE ROAD TO RIDGELAND AVENUE AND BACK. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED ON MAPLE STREET, STEPHENS STREET OR CENTRAL AVENUE.

**CONNECTION TO EXISTING WATER MAIN NOTE:**

THE CITY OF RIDGELAND WILL PERFORM ALL CONNECTIONS TO EXISTING WATER MAINS FOR WATER SERVICE TAPS AND WILL PROVIDE THE SEWER SERVICE TUBING AND WATER METERS. ONCE THE DEVELOPMENT IS APPROVED FOR CONSTRUCTION THE DEVELOPER CAN PAY THE CITY FOR THESE ITEMS AND A WORK ORDER WILL THEN BE GENERATED FOR WATER SERVICE INSTALLATIONS.

**CONNECTION TO EXISTING SEWER MAIN NOTE:**

THE CITY OF RIDGELAND WILL PERFORM ALL CONNECTIONS TO EXISTING SEWER MAINS FOR SEWER SERVICE TAPS AND WILL PROVIDE THE SEWER SERVICE LINES AND SERVICE MARKERS. ONCE THE DEVELOPMENT IS APPROVED FOR CONSTRUCTION THE DEVELOPER CAN PAY THE CITY FOR THESE ITEMS AND A WORK ORDER WILL THEN BE GENERATED FOR SEWER SERVICE INSTALLATIONS.

**TBM SCHEDULE**

TBM 10 FLANGE BOLT ON FIRE HYDRANT  
ELEVATION - 359.10  
ELEVATIONS REFERENCED TO NAVD 88 REFERENCE MARKER R-54 ELEV. 339.53  
DATE OF SURVEY: 04-06-15

**NOTES:**

- 1. WATER AND SEWER SERVICES TO LOTS TO BE CONNECTED TO EXISTING WATER AND SEWER MAINS WITH THE EXCEPTION OF LOTS 1-3, 11 AND 12 SEWER SERVICES. LOTS 1-3, 11 AND 12 SEWER SERVICES TO BE CONNECTED TO PROPOSED 8" SANITARY SEWER MAIN (TYPE: PVC SDR-26).
- 2. LOT 1 AND 7 CONTAIN A DRAINAGE AND LANDSCAPE EASEMENT THAT WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- 3. SANITARY SEWER SERVICES ARE 6" SERVICES (TYPE: PVC SDR-26) AND STUBBED OUT AT THE RIGHT-OF-WAY OR EASEMENT WITH MARKER POST AS PER CITY OF RIDGELAND STANDARDS AND SPECIFICATIONS.
- 4. WATER SERVICES ARE 3/4" SERVICES (TYPE: CLASS 200 PSI POLYETHYLENE) AND STUBBED OUT AT THE RIGHT-OF-WAY OR EASEMENT WITH MARKER POST AS PER CITY OF RIDGELAND STANDARDS AND SPECIFICATIONS.
- 5. TIES TO EXISTING SANITARY SEWER SYSTEM ARE COORDINATED WITH THE CITY PRIOR TO MAKING CONNECTION.
- 6. ALL FITTINGS FOR WATER LINE INSTALLATION ARE NON LEAD.
- 7. ALL WATER SERVICE LINES CONTAIN TRACER WIRE.

DRAWING NO.

**H D LANG AND ASSOCIATES, INC.**  
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601-362-4886

PROJECT

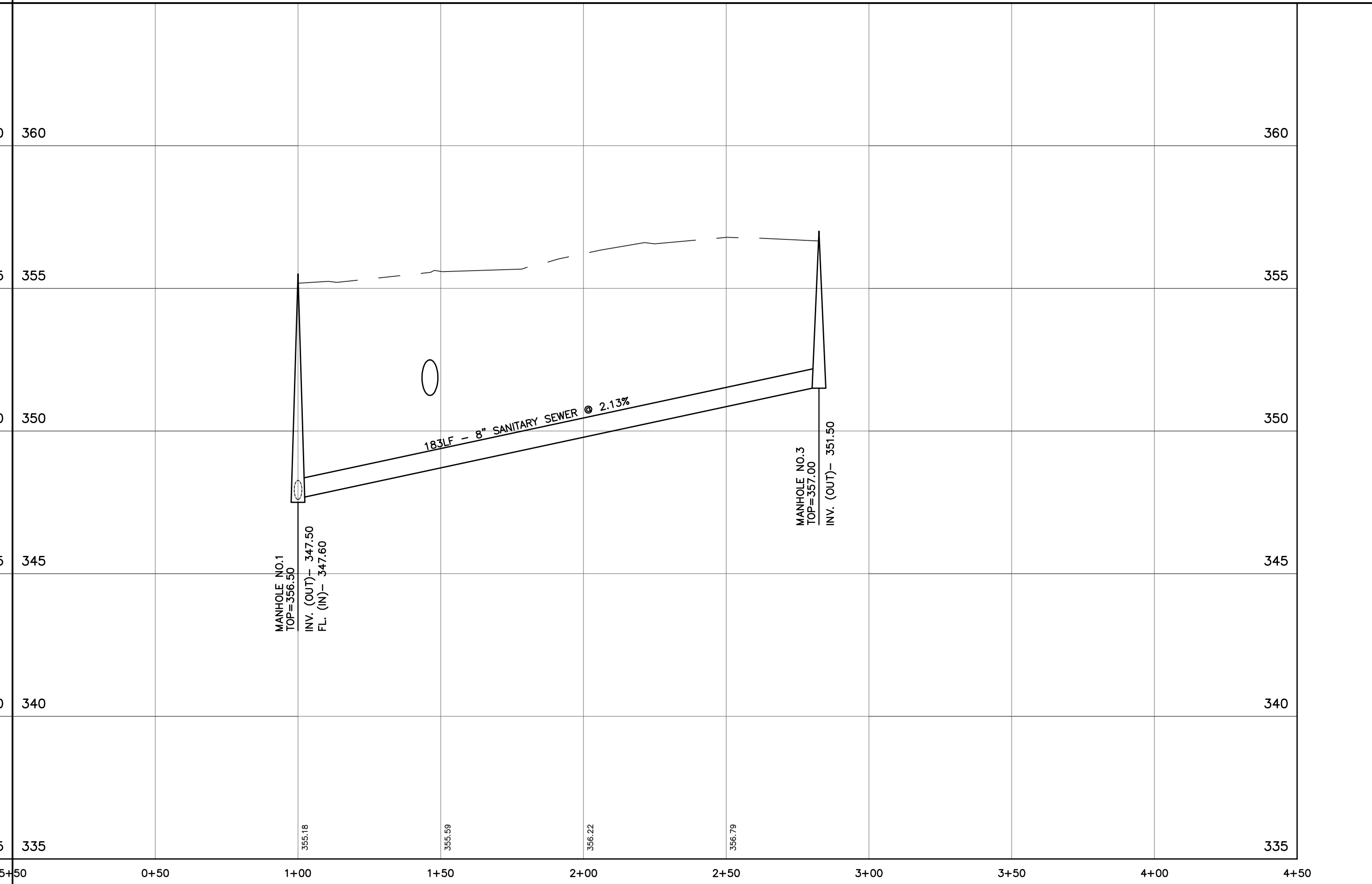
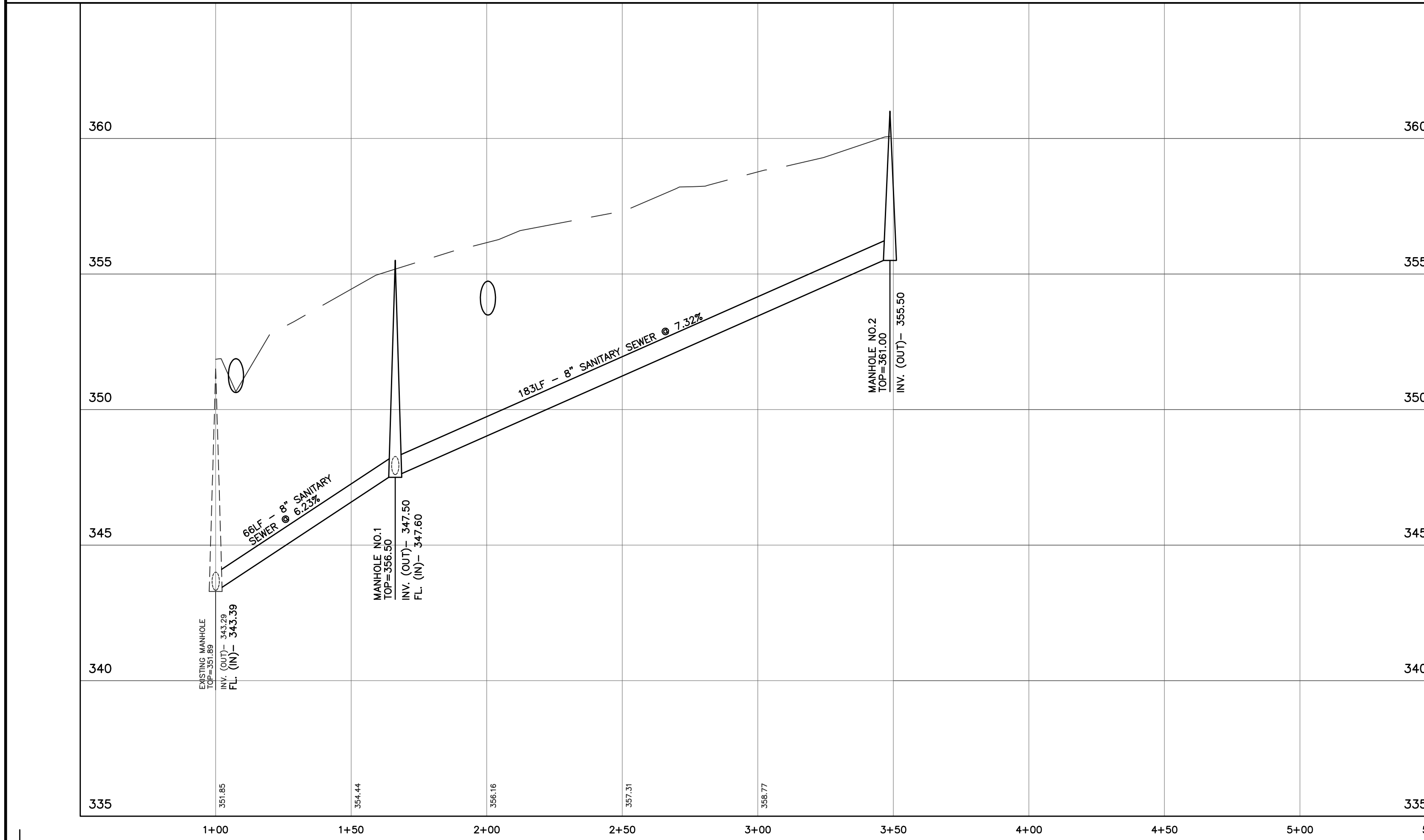
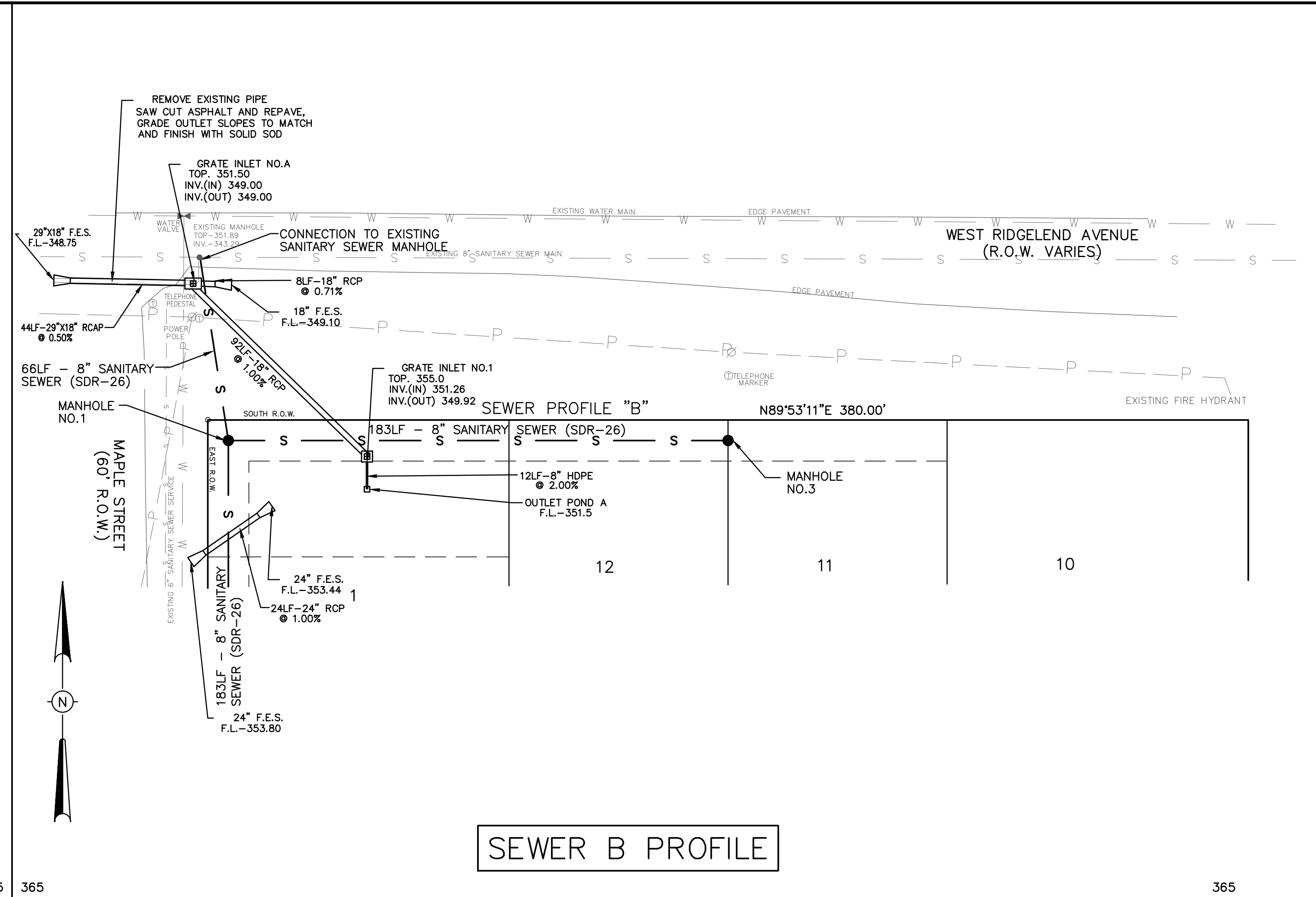
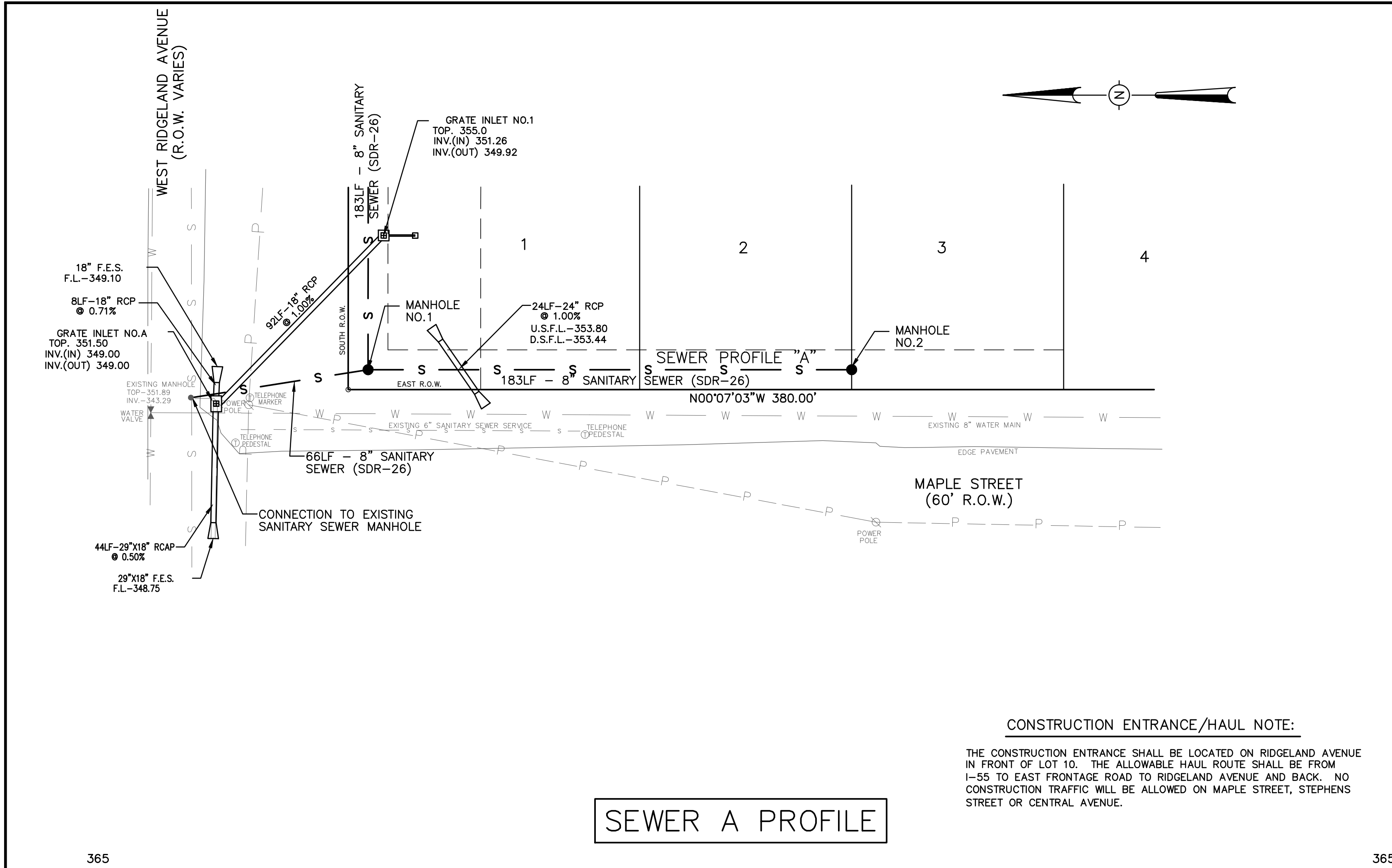
OLDE MAPLE

AS-BUILT  
SEWER AND WATER  
SERVICE LAYOUT

DATE	REVISION	BY	DRAWN BY:
01-29-16	CITY COMMENTS	JBH	DATE: 12-2-15
03-14-16	CITY COMMENTS	JBH	SCALE: 1" = 30'
7-26-16	RECORD DRAWINGS	D.L.M.	BOOK: PAGE:
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SHEET

4



DRAWING NO.

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 601-362-4886

PROJECT  
 OLDE MAPLE

SEWER A PROFILE  
 SEWER B PROFILE

DATE	REVISION	BY	DRAWN BY:
01-29-16	CITY COMMENTS	JBH	DATE: 12-2-15
03-07-16	CITY COMMENTS	JBH	SCALE: 1" = 30'
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SHEET  
 4A

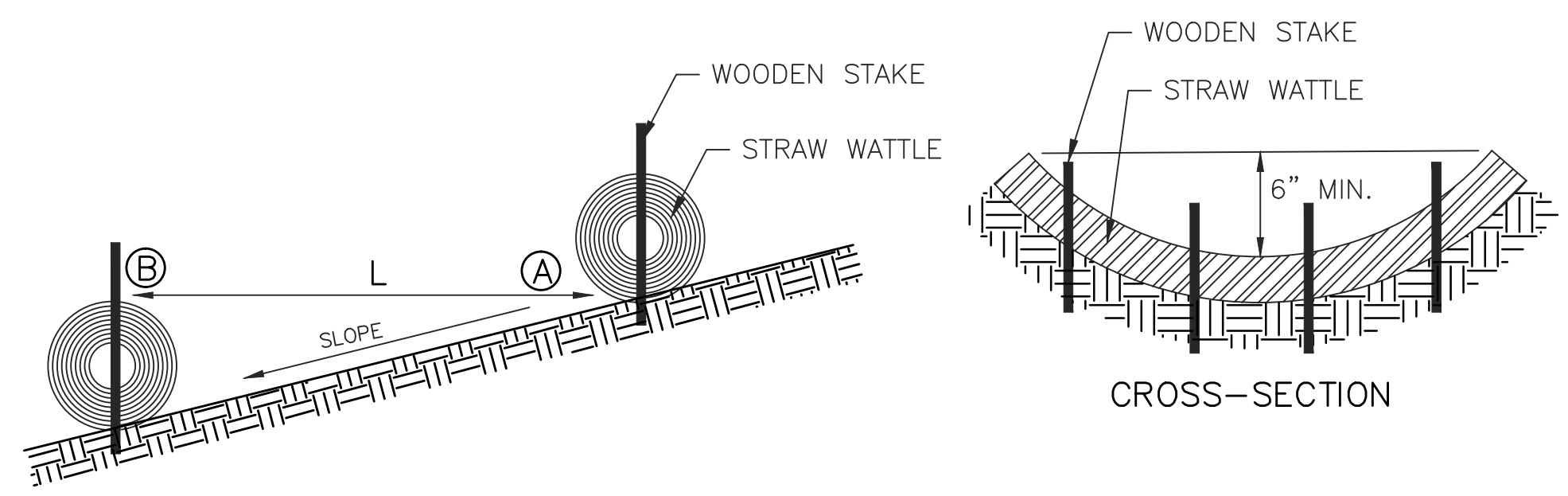
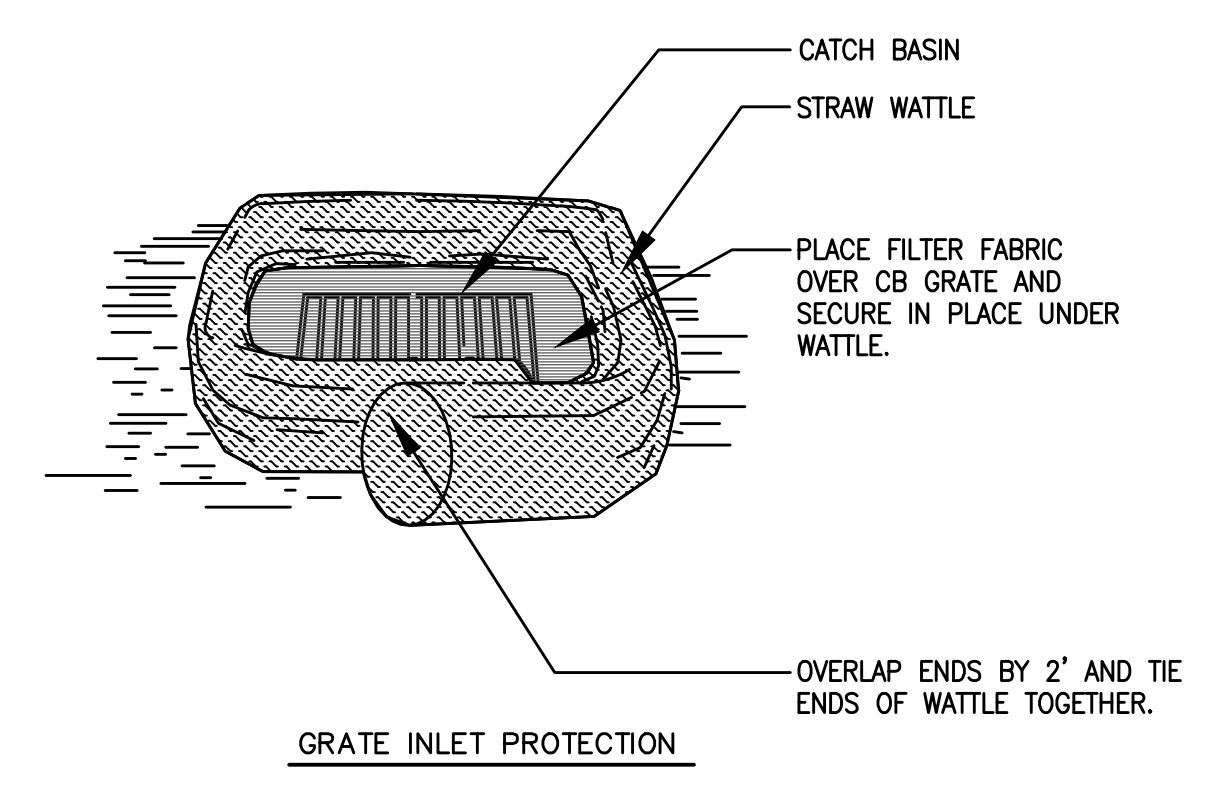
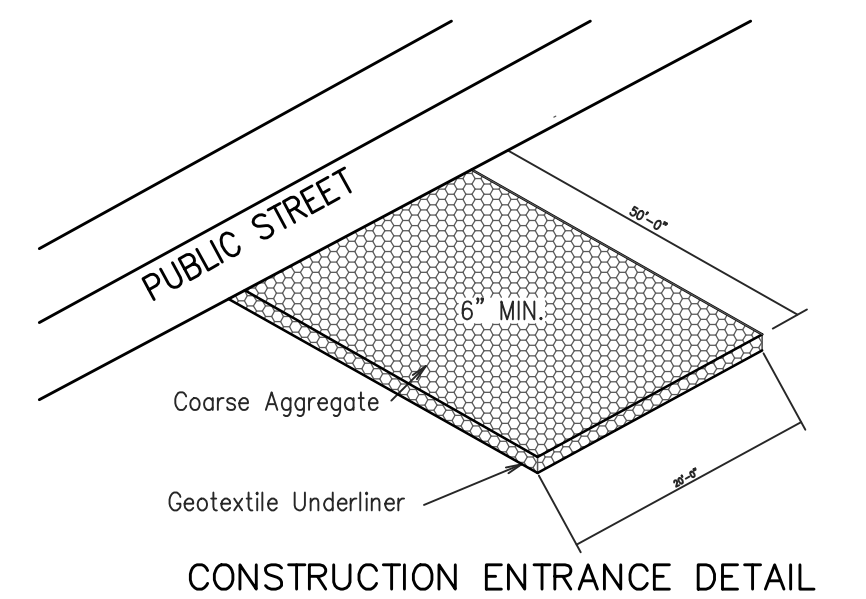
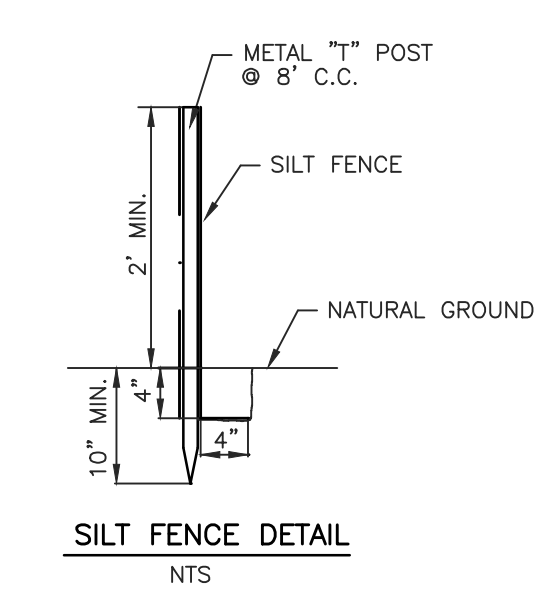
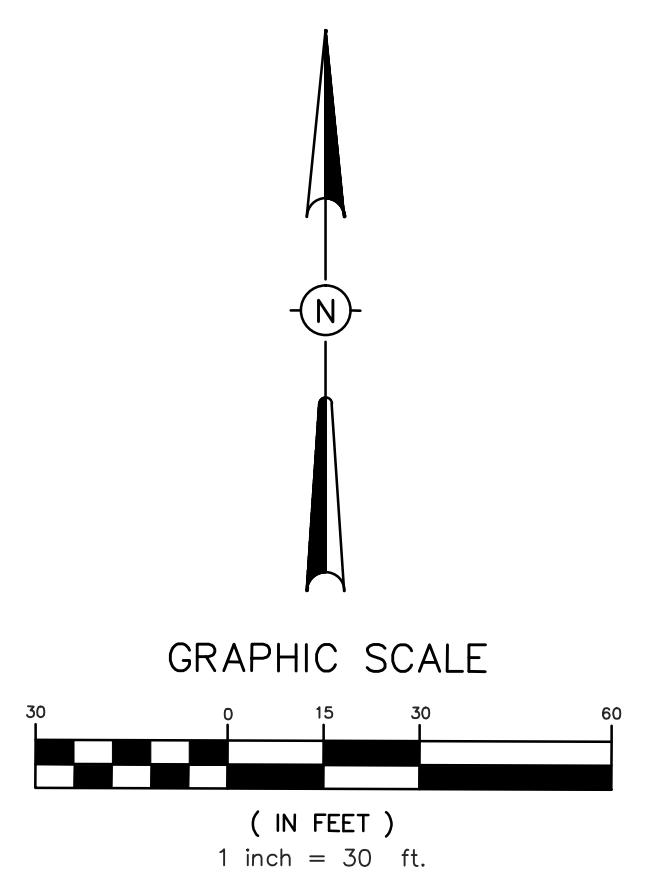
**SYMBOLS FOR EROSION AND SEDIMENT CONTROL PRACTICES**

**TEMPORARY PRACTICES**

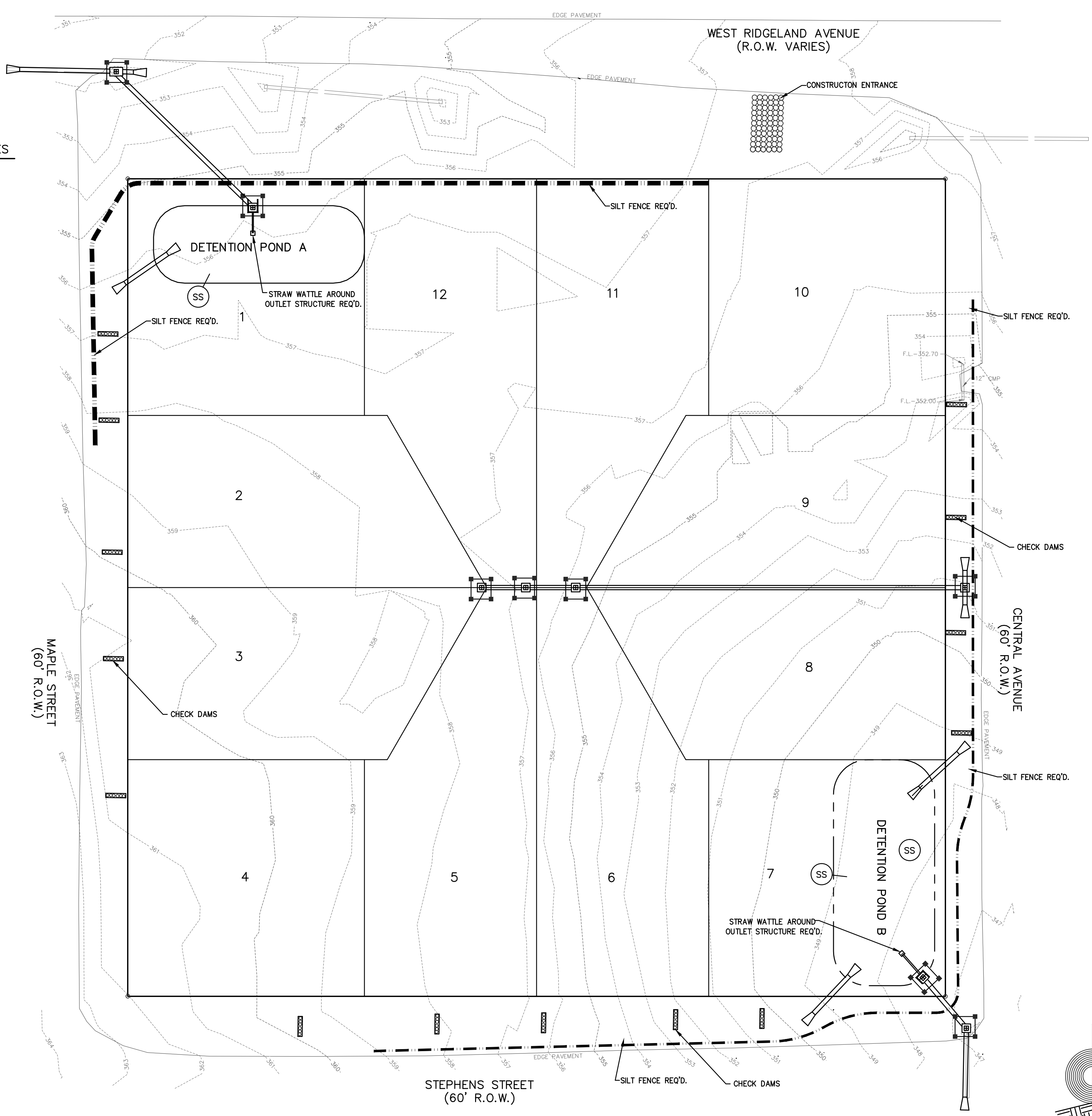
- CHECK DAM
- ▢ CONSTRUCTION ENTRANCE/EXIT (SEE DETAIL)
- - - - - SILT FENCE (SEE DETAIL)
- ▣ STORM DRAIN INLET PROTECTION (STRAW WATTLE)

**VEGETATIVE PRACTICES**

- SS SOLID SOD



NTS  
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATIONS.



**CONSTRUCTION ENTRANCE/HAUL NOTE:**  
THE CONSTRUCTION ENTRANCE SHALL BE LOCATED ON RIDGELAND AVENUE IN FRONT OF LOT 10. THE ALLOWABLE HAUL ROUTE SHALL BE FROM I-55 TO EAST FRONTAGE ROAD TO RIDGELAND AVENUE AND BACK. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED ON MAPLE STREET, STEPHENS STREET OR CENTRAL AVENUE.

**PLANNED EROSION, SEDIMENT AND STORMWATER CONTROL PRACTICES**

1. STORM DRAIN INLET PROTECTION.  
STRAW WATTLES 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 GRADED AREAS WILL RECEIVE SEEDING FOR STABILIZATION OF THE CUT/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.

**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.

**PERMANENT SEEDING**

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

**LOT DISTURBANCE**

ONCE LOTS HAVE BEEN DISTURBED AND CUT OR FILLED TO GRADE, THEY SHALL RECEIVE PERMANENT SEEDING.

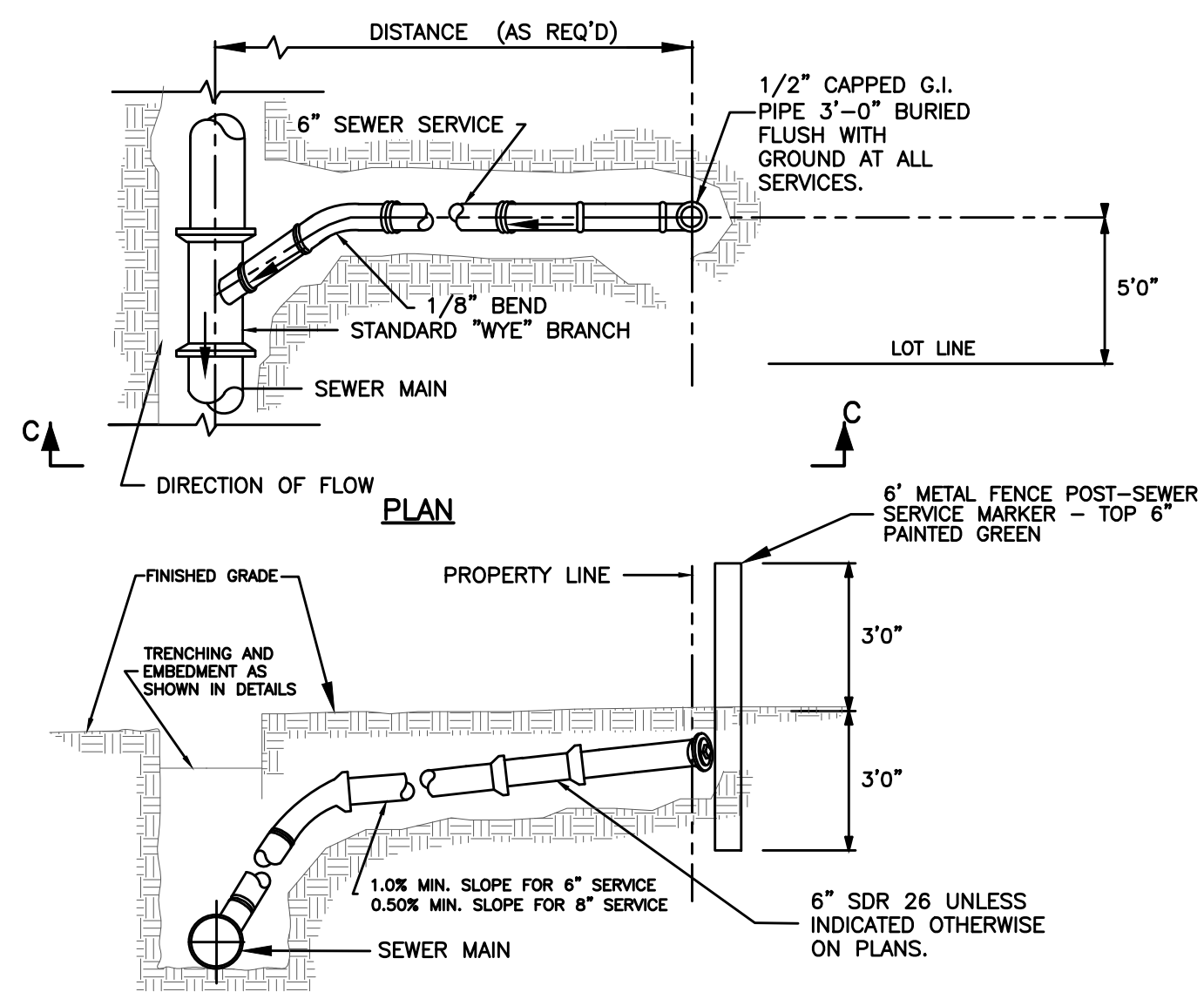
**SEDIMENT CONTROL PLAN**

1. SEDIMENT BASINS MUST CONTAIN AN EXCESS OF 3600 CUBIC FEET OF STORAGE PER ACRE DRAINED.
2. EXCEPT FOR SEDIMENT BASINS, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM STRUCTURAL CONTROLS WHEN SEDIMENT DEPOSITS REACH 1/3 TO 1/2 OF THE HEIGHT OF THE CONTROL. FOR SEDIMENT BASINS, ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE CAPACITY OF THE SEDIMENT BASIN HAS BEEN REDUCED BY 50%. ALL REMOVED SEDIMENT SHALL BE REMOVED AND DISPOSED AS REQUIRED.

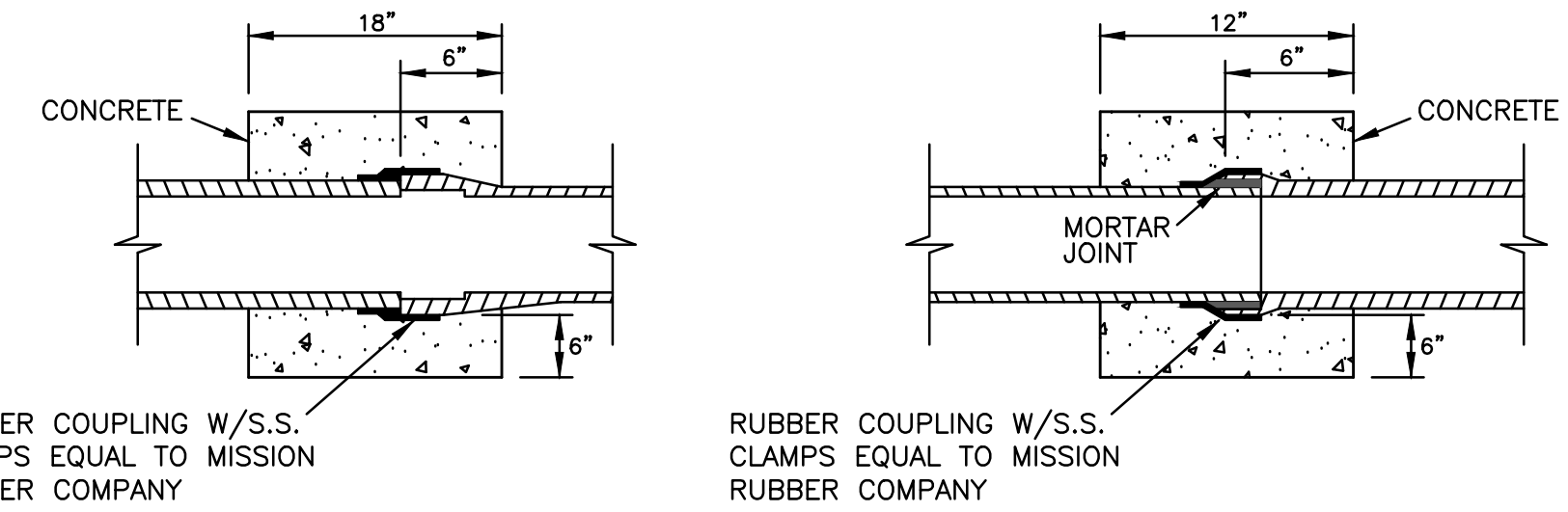
**MAINTENANCE PLAN**

- 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, RESEEDED AND REMULCHED AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.
  4. STORMWATER TREATMENT BASIN SHALL BE INSPECTED FOR SEDIMENT WEEKLY AND SHALL BE PURGED FROM SEDIMENT IF THE SEDIMENT DEPTH REACHES 9 INCHES.
- 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.
  4. POST CONSTRUCTION STORMWATER TREATMENT BASIN SHALL BE INSPECTED MONTHLY FOR SEDIMENT AND SHALL BE PURGED FROM BASIN IF THE SEDIMENT DEPTH REACHES 9 INCHES.

DRAWING NO.

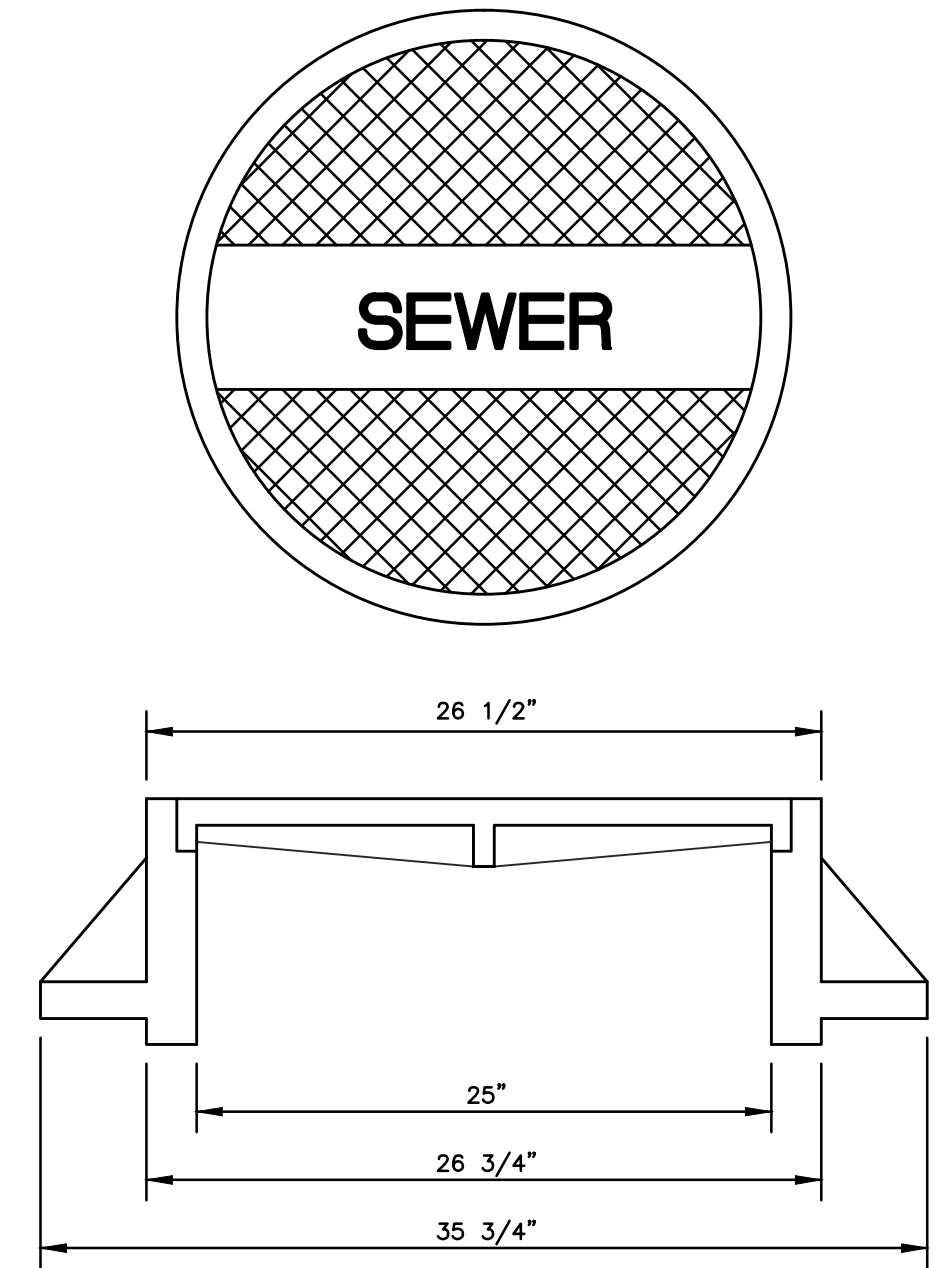


SECTION C-C  
SEWER SERVICE CONNECTION DETAIL

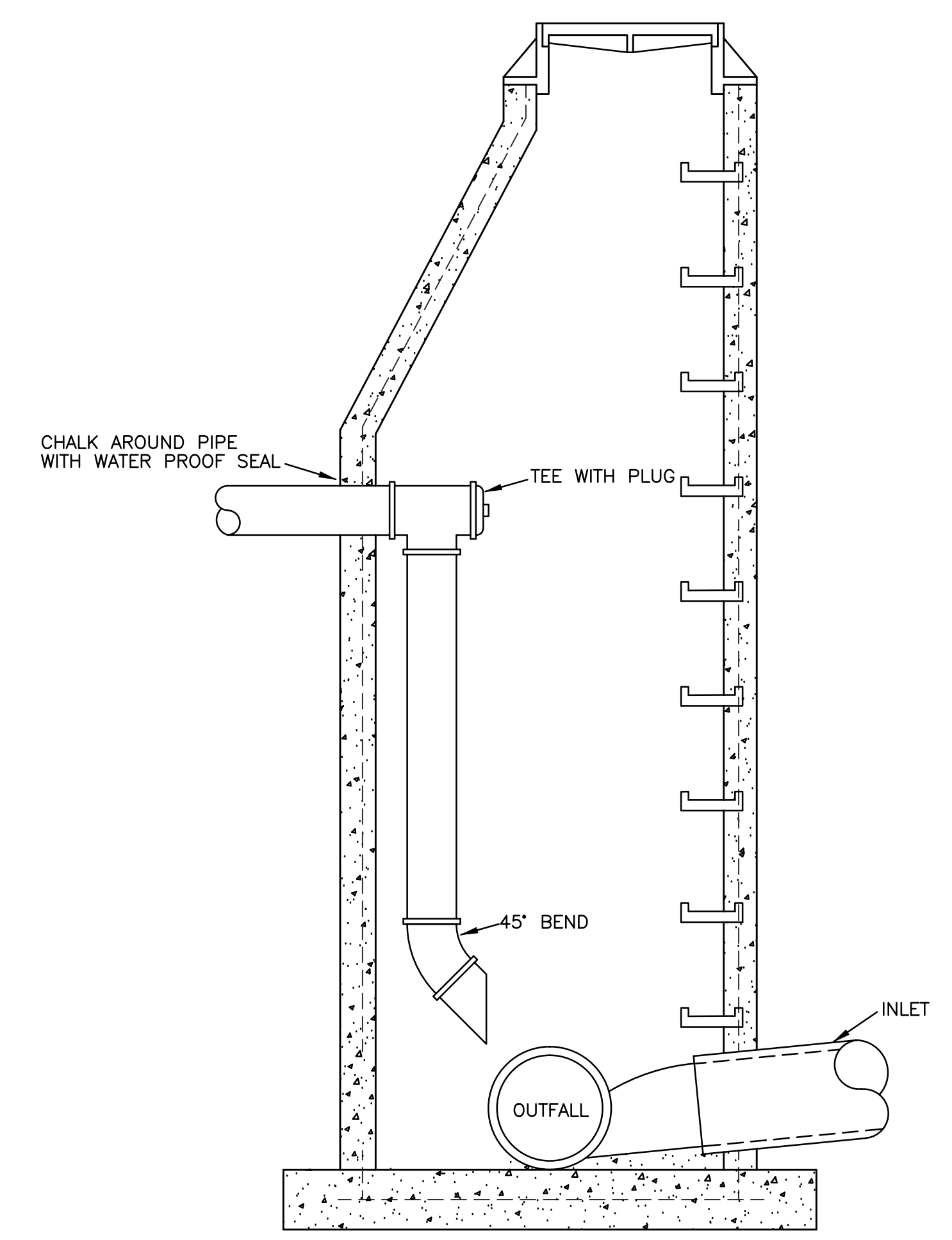


JOINTING DISSIMILAR PIPES

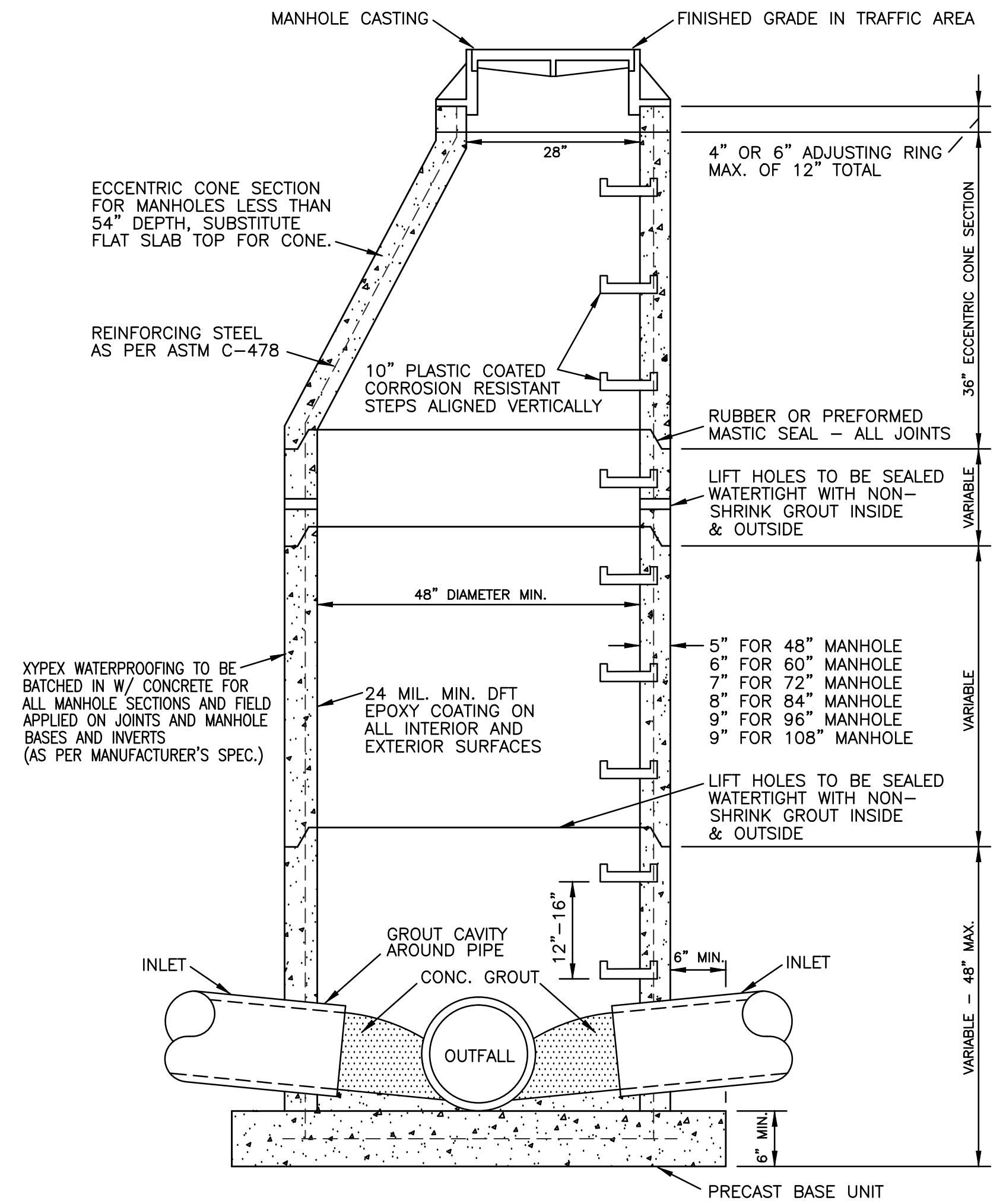
NOTE: MANHOLE RING & COVER TO BE HEAVY DUTY VULCAN V-1215 OR APPROVED EQUAL



MANHOLE CASTING DETAILS

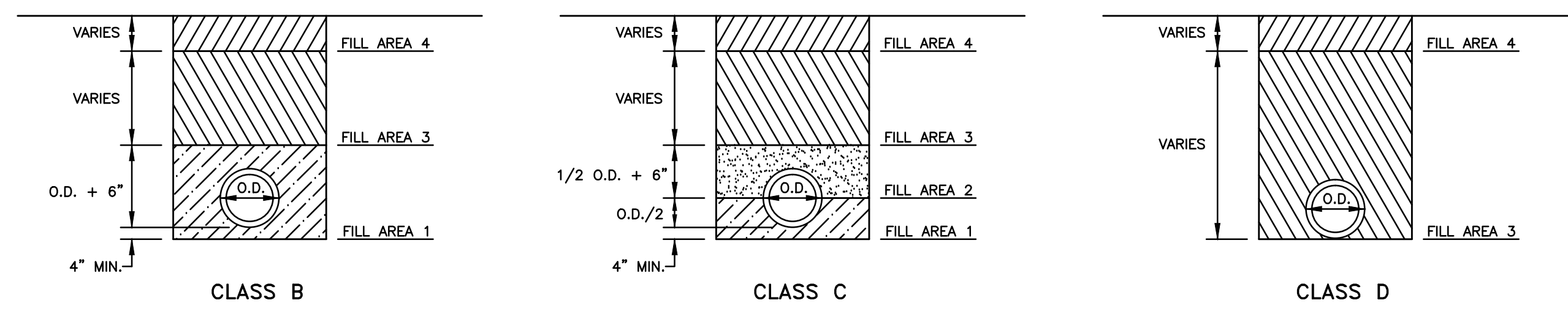


DETAIL OF MANHOLE CONNECTION WITH DROP CONNECTION



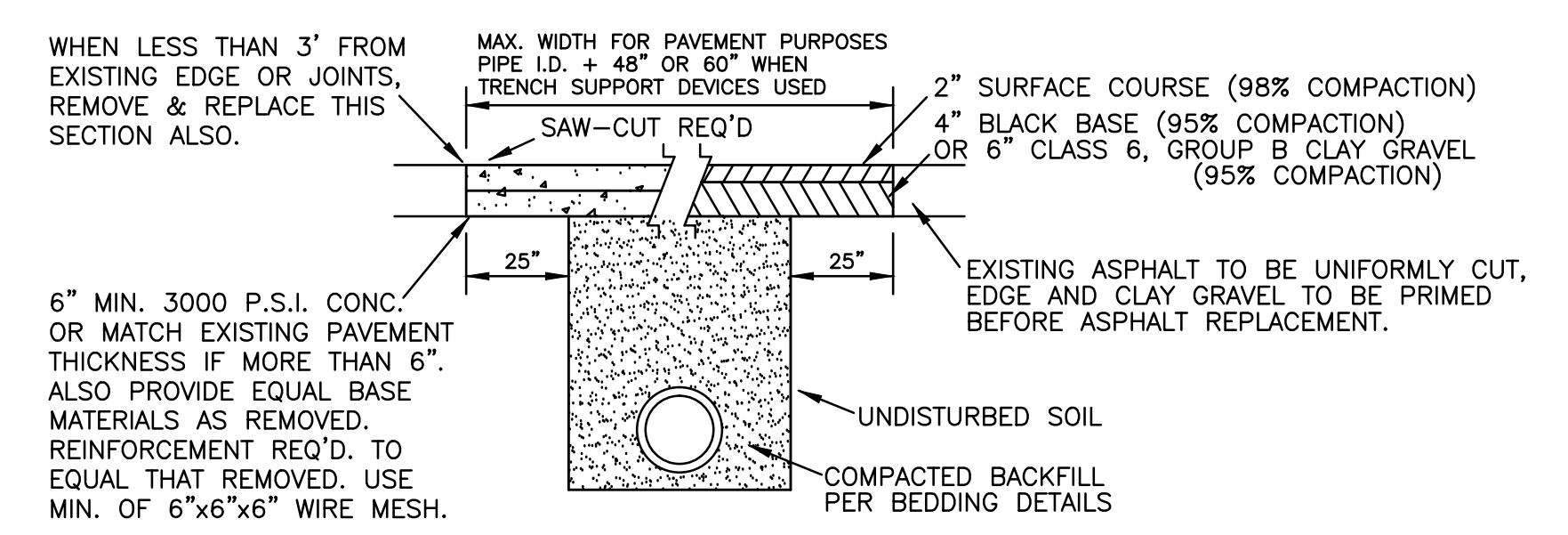
NOTE: WHEN 48" MIN. DIAMETER MANHOLE IS NOT ADEQUATE TO ALLOW FOR INSTALLATION OF FLEXIBLE PIPE CONNECTOR FOR LARGER PIPE OR DUE TO DEFLECTION ANGLE, PROVIDE A LARGER DIAMETER BOTTOM SECTION.

SECTION PRECAST CONCRETE MANHOLE

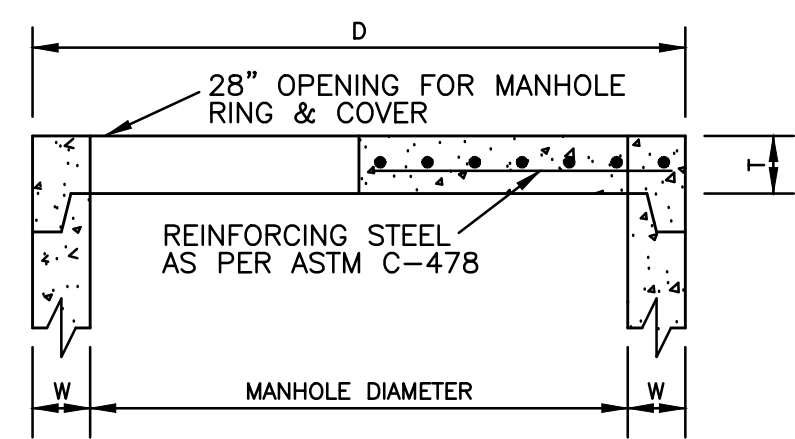


BEDDING / BACKFILL DETAILS

FILL AREA 1 (ALL LOCATIONS) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.  
 FILL AREA 2 (ALL LOCATIONS) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.  
 FILL AREA 3 (SELECT LOCATIONS) - 12" MAXIMUM LOOSE LIFTS, MECHANICALLY TAMPED TO 95% DENSITY.  
 FILL AREA 4 - SEE PAVEMENT REPLACEMENT DETAIL FOR PAVED AREAS, AT OTHER LOCATIONS BRING FILL AREA 3 TO SURFACE.

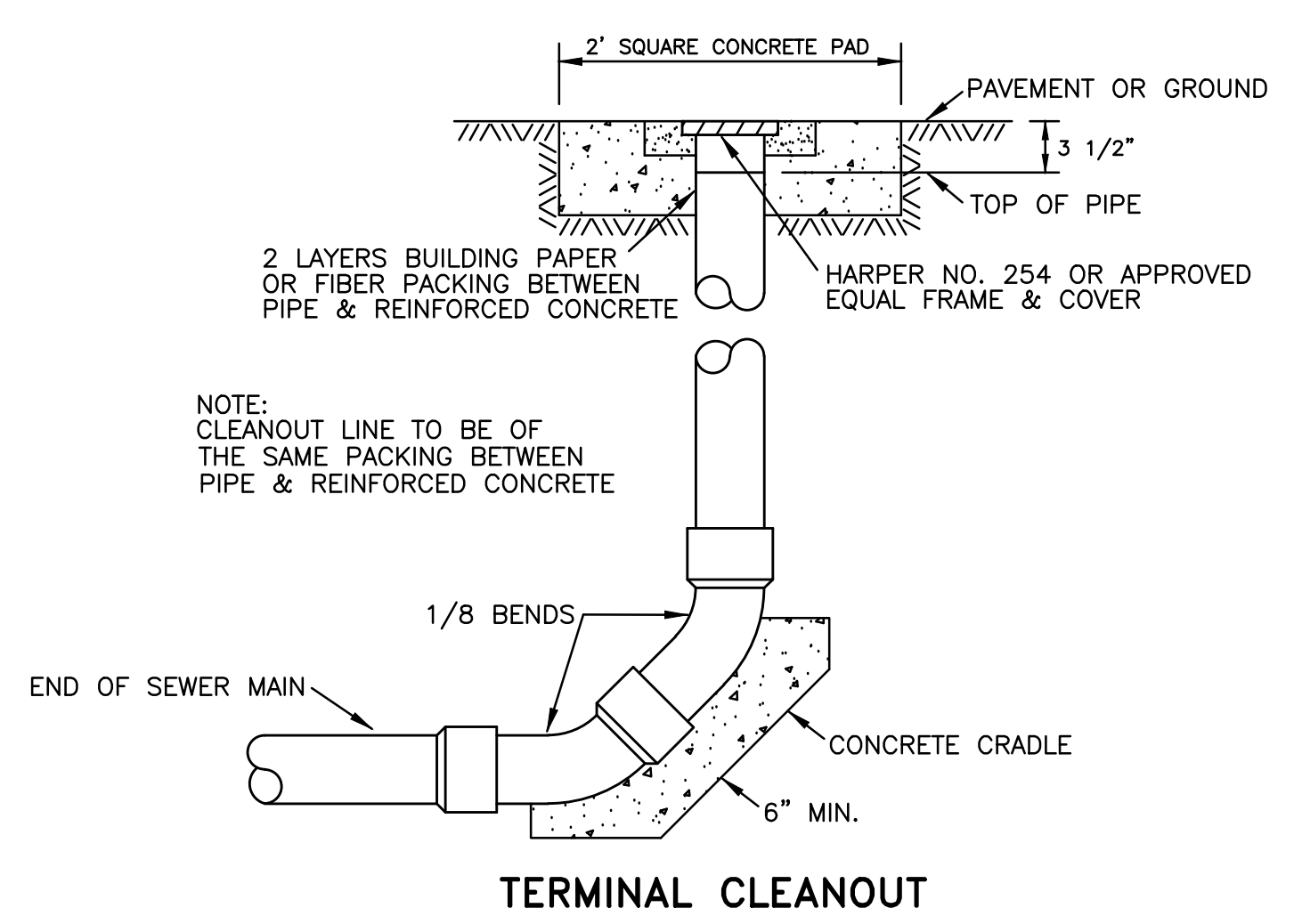


REMOVAL & REPLACEMENT OF EXISTING PAVEMENT

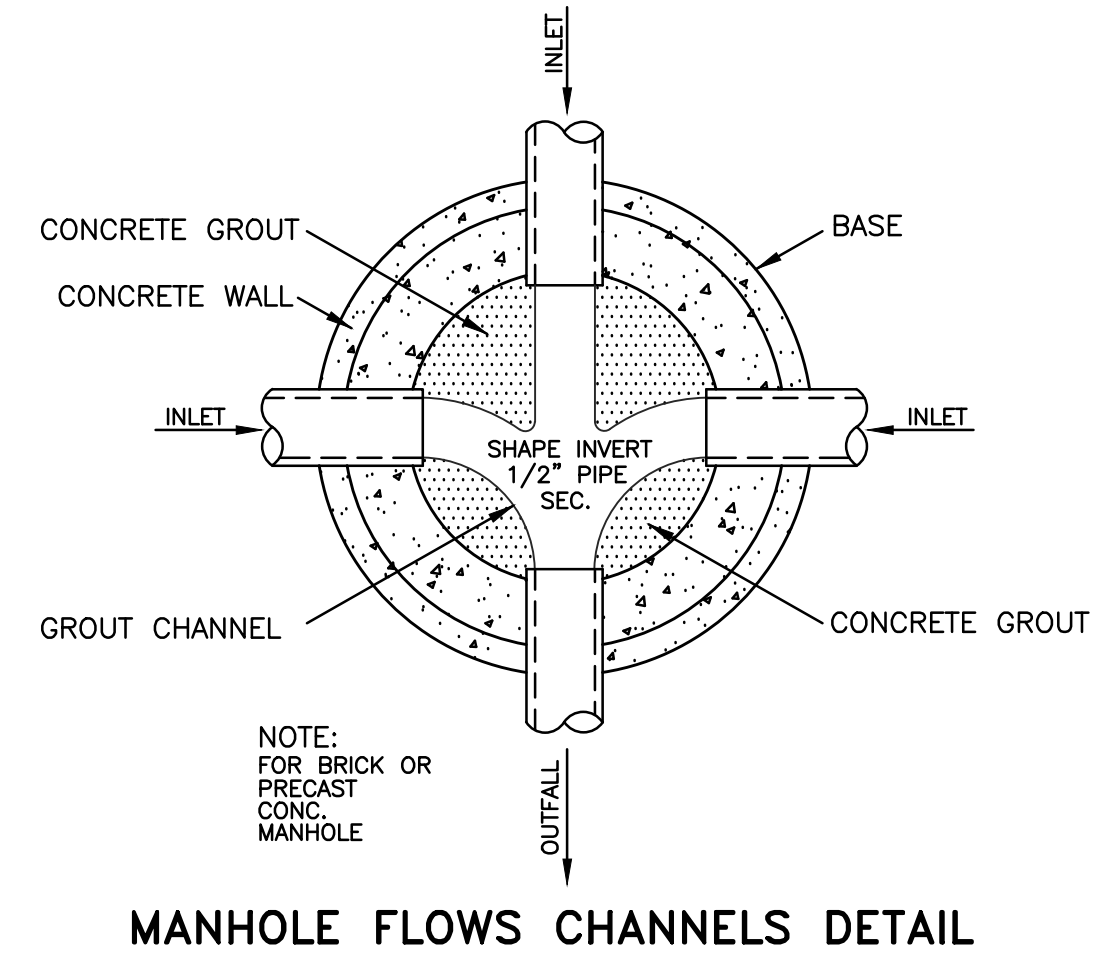


DIMENSION TABLE			
PIPE DIAMETER	W	D	T
48"	5"	58"	6"
60"	6"	72"	8"
72"	7"	86"	8"
84"	8"	100"	8"
96"	9"	114"	8"
108"	10"	126"	8"

FLAT SLAB MANHOLE TOP

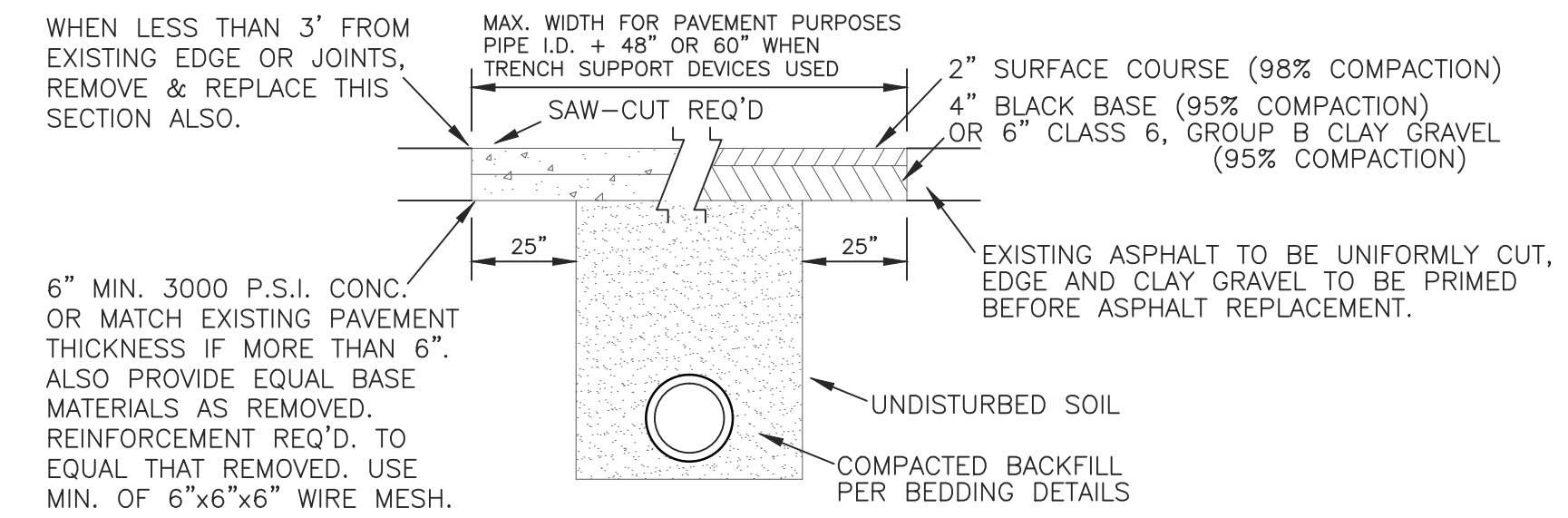


TERMINAL CLEANOUT

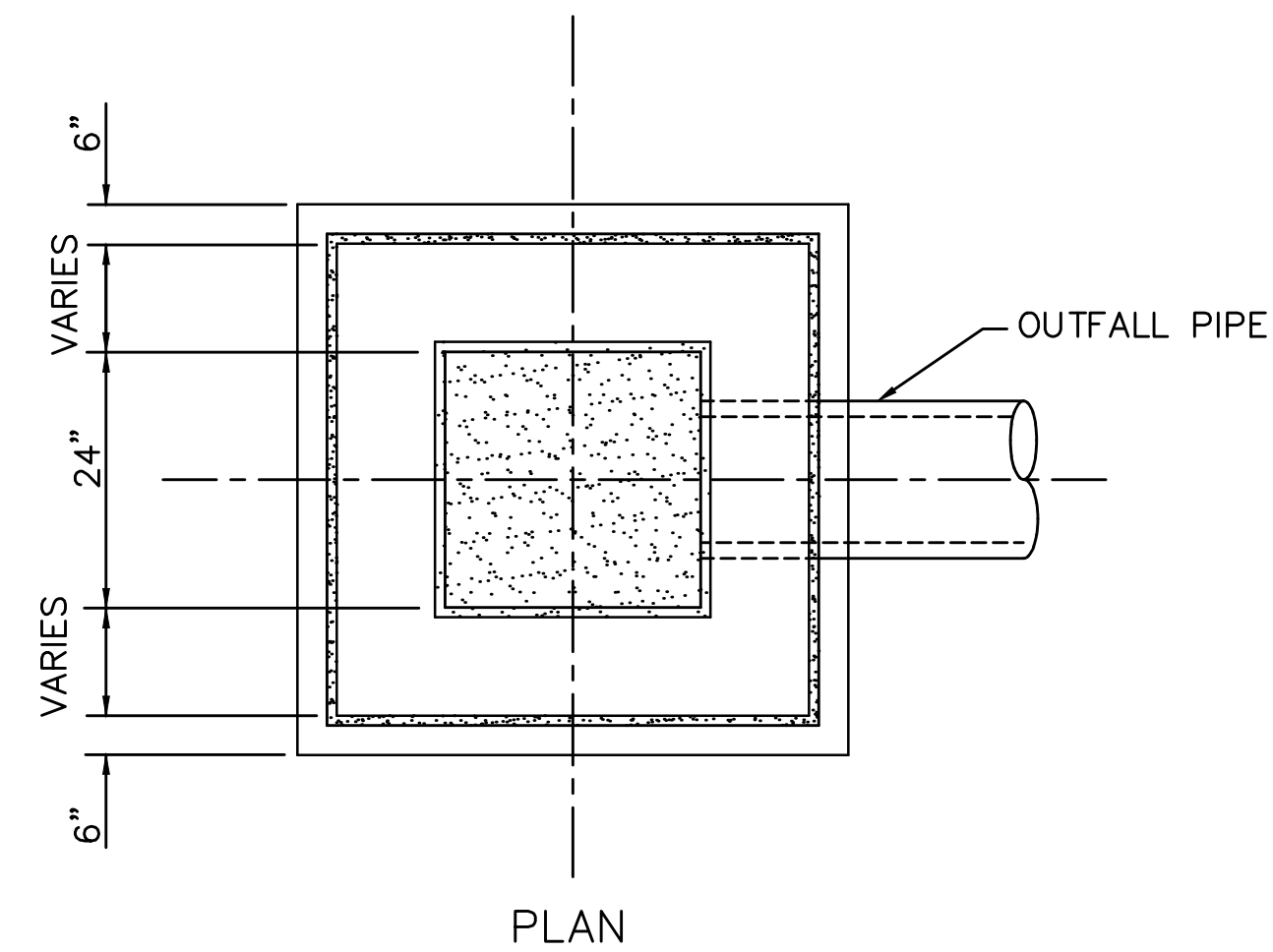


MANHOLE FLOWS CHANNELS DETAIL

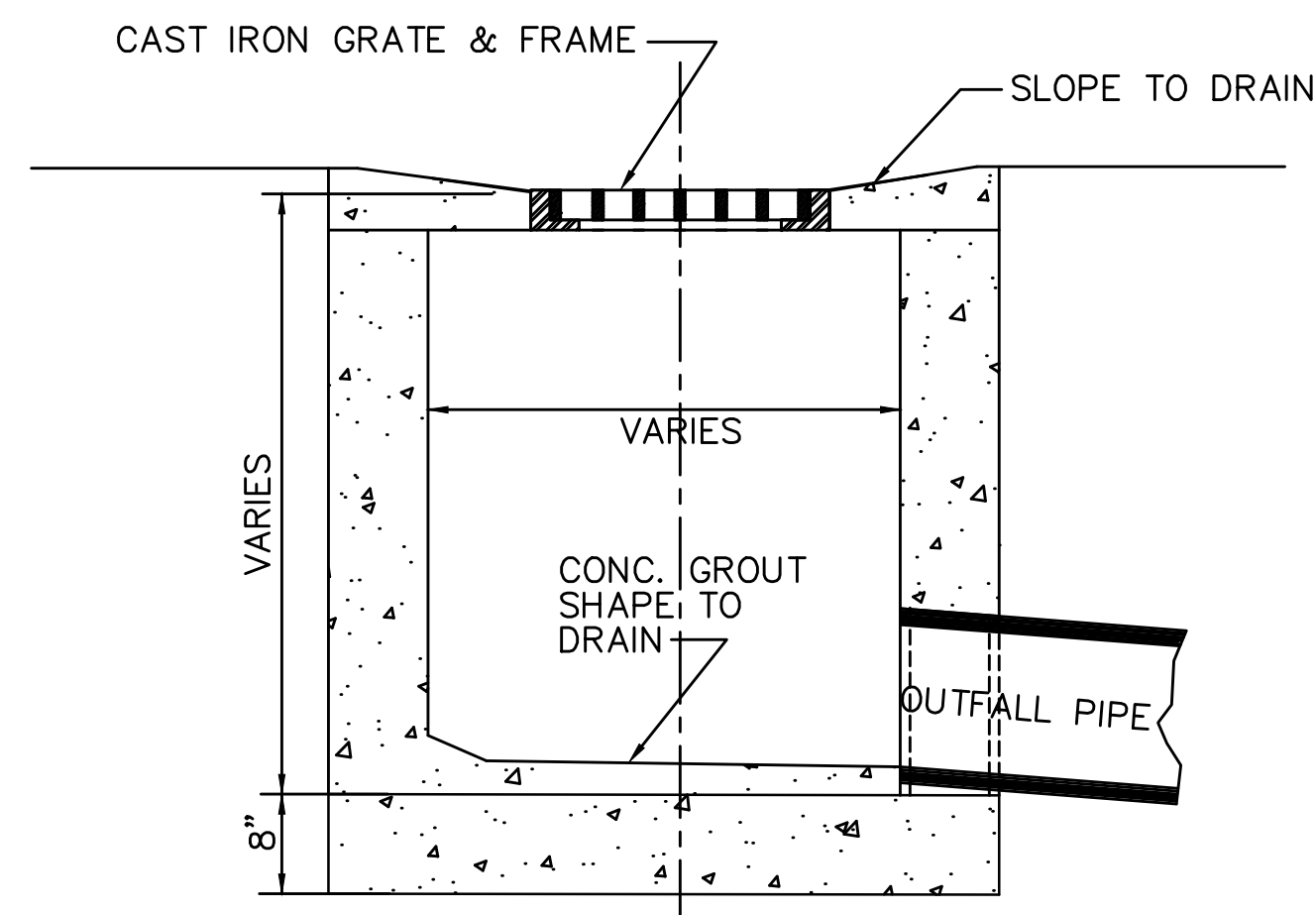




REMOVAL & REPLACEMENT OF EXISTING PAVEMENT



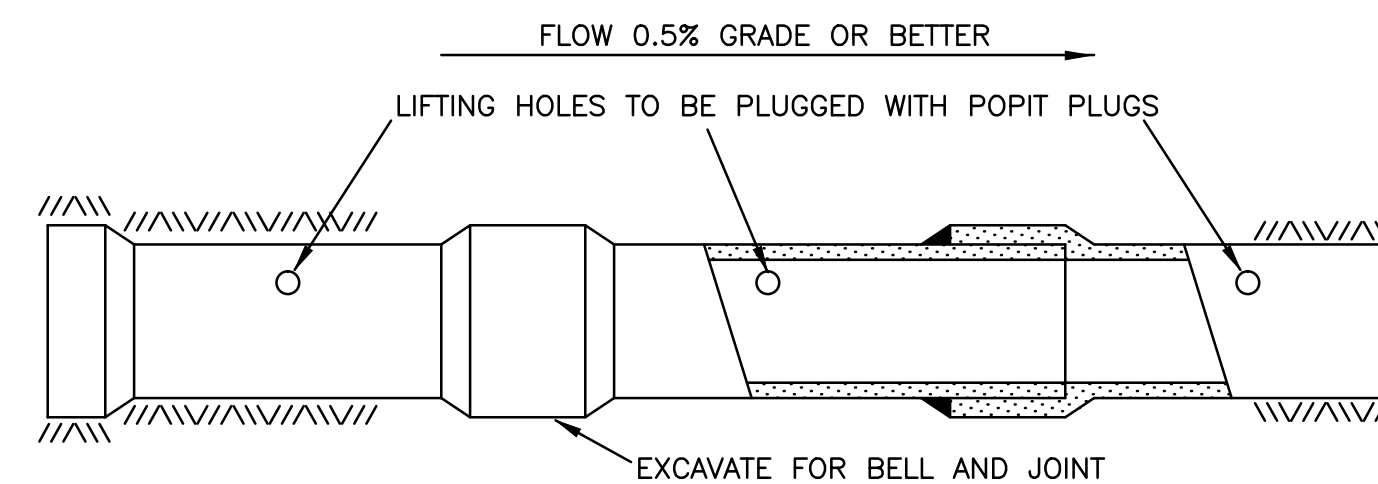
PLAN



ELEVATION

NOTES:

1. CONCRETE SHALL BE 4,000 PSI IN 28 DAYS.
2. REINFORCING STEEL SHALL MEET ASTM A-615, GRADE 60.
3. REINFORCING TO MEET AASHTO HS 20-44 LOADING.



NOTE: ALL STORM SEWER JOINTS TO BE WRAPPED WITH FILTER CLOTH  
CONCRETE STORM SEWER CONSTRUCTION

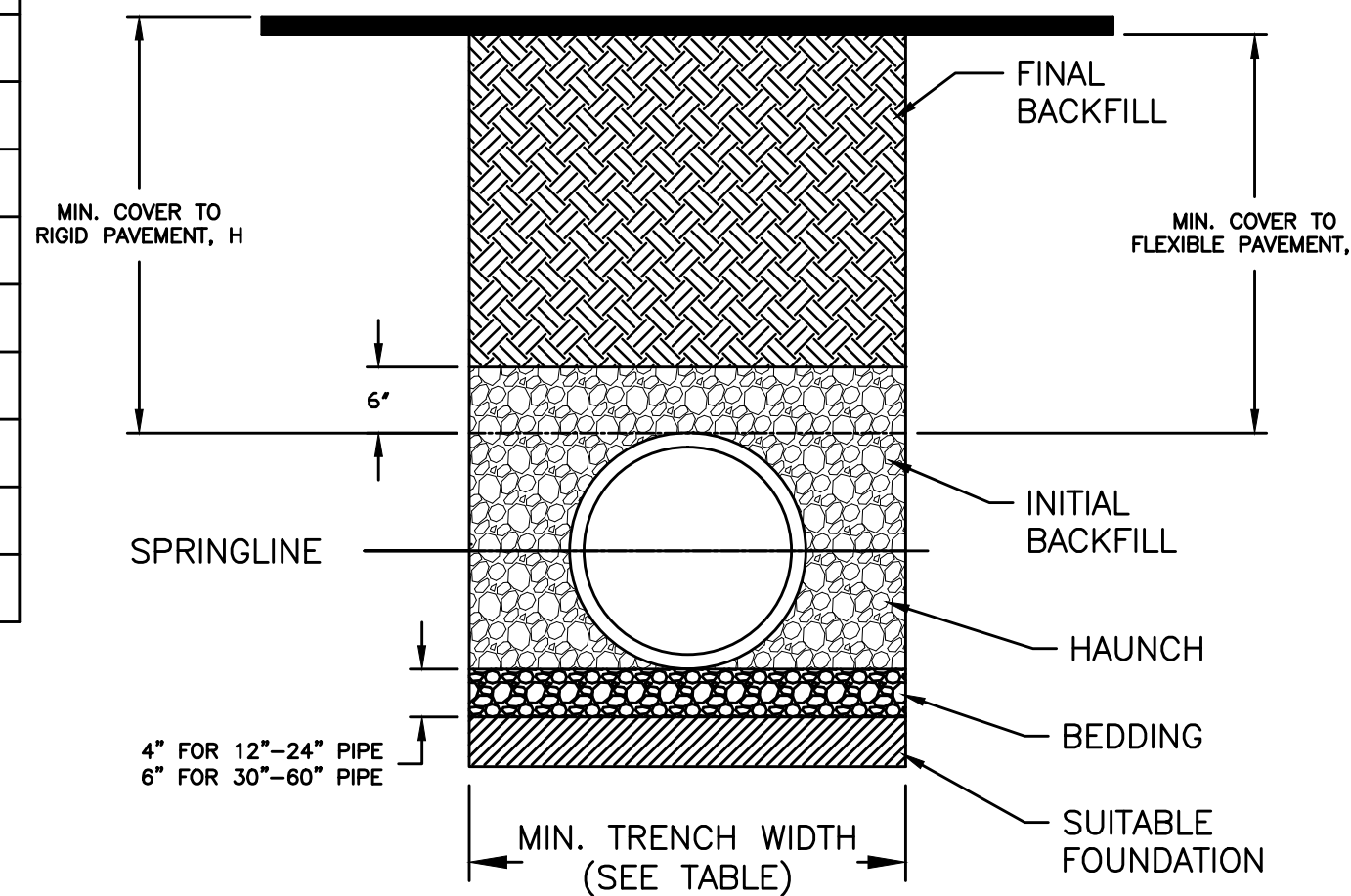
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

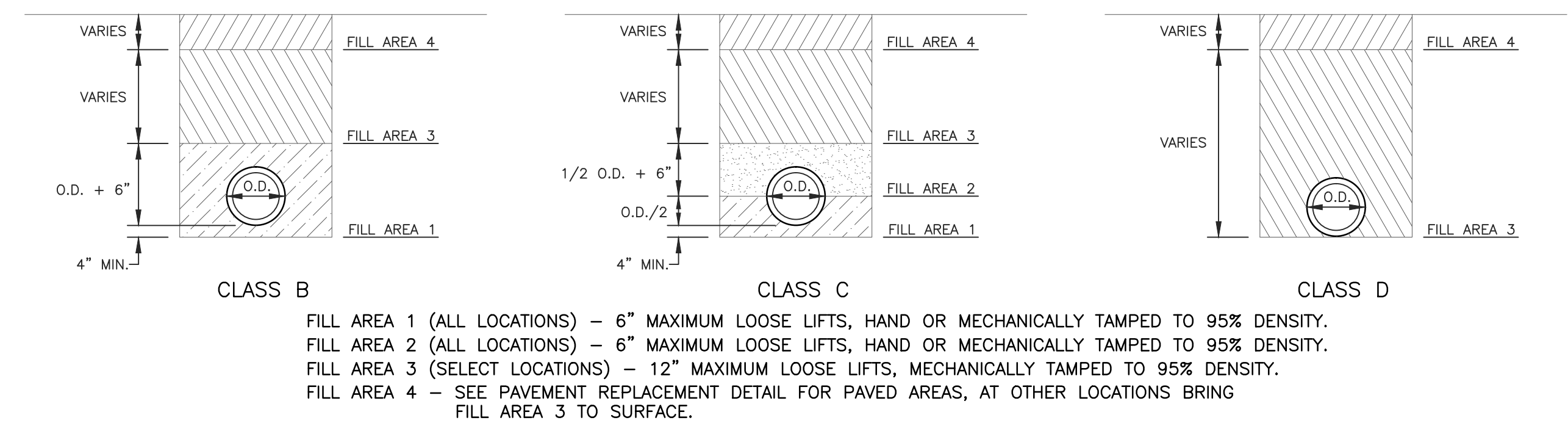
\* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER



HDPE PIPE BEDDING/BACKFILLING DETAILS

NOTES:

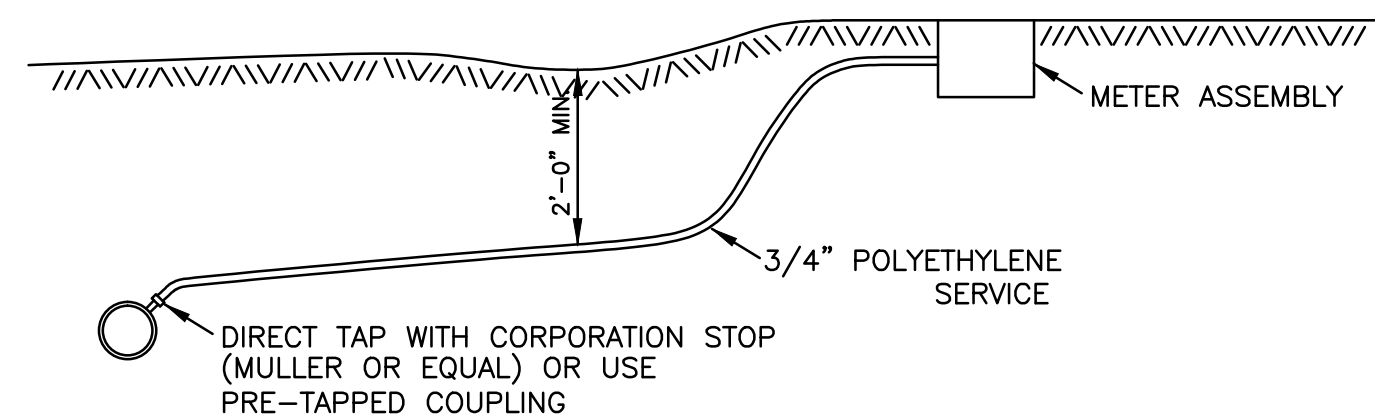
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. **BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. **INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. **MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



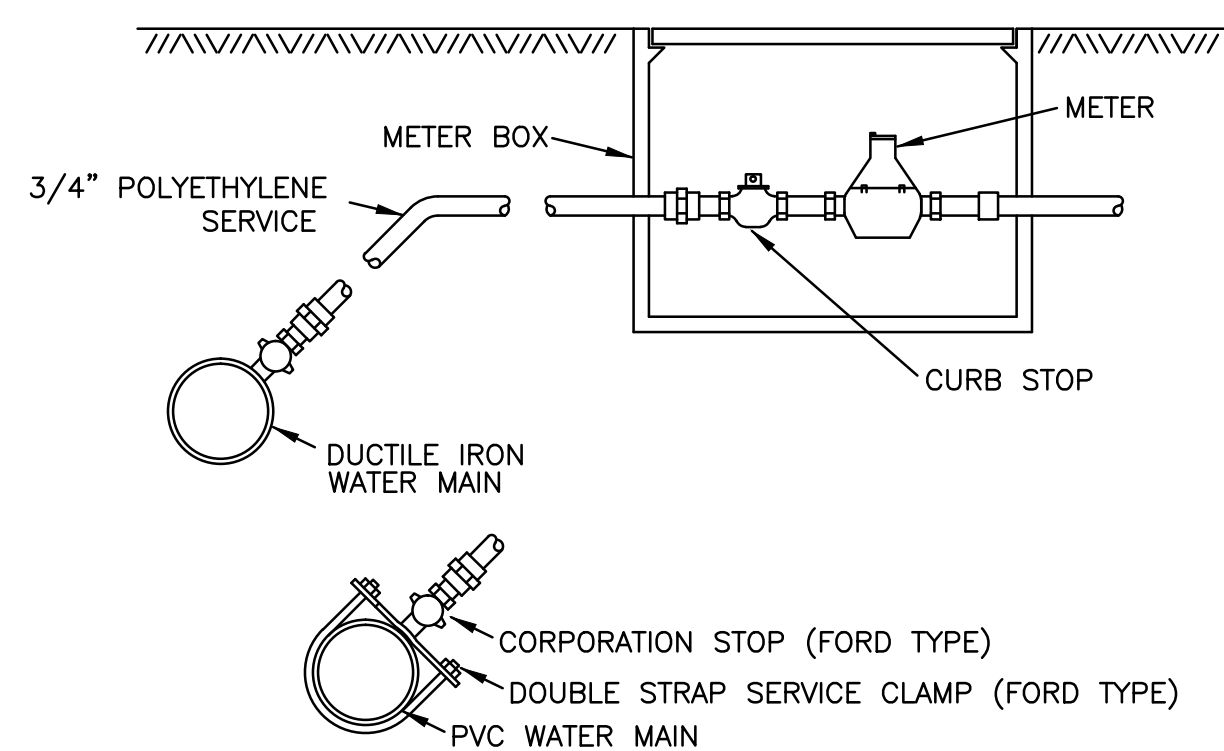
CLASS B  
 CLASS C  
 CLASS D  
 FILL AREA 1 (ALL LOCATIONS) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.  
 FILL AREA 2 (ALL LOCATIONS) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.  
 FILL AREA 3 (SELECT LOCATIONS) - 12" MAXIMUM LOOSE LIFTS, MECHANICALLY TAMPED TO 95% DENSITY.  
 FILL AREA 4 - SEE PAVEMENT REPLACEMENT DETAIL FOR PAVED AREAS, AT OTHER LOCATIONS BRING FILL AREA 3 TO SURFACE.

BEDDING / BACKFILL DETAILS  
 ALL PIPE MATERIALS SHALL USE CLASS "C" BEDDING

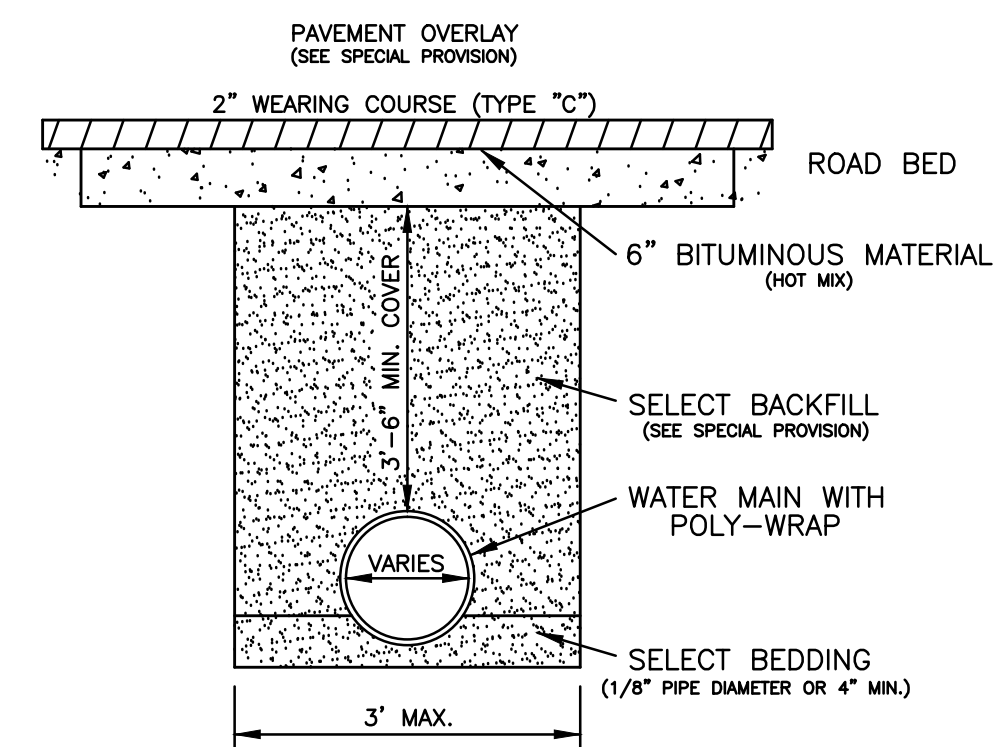
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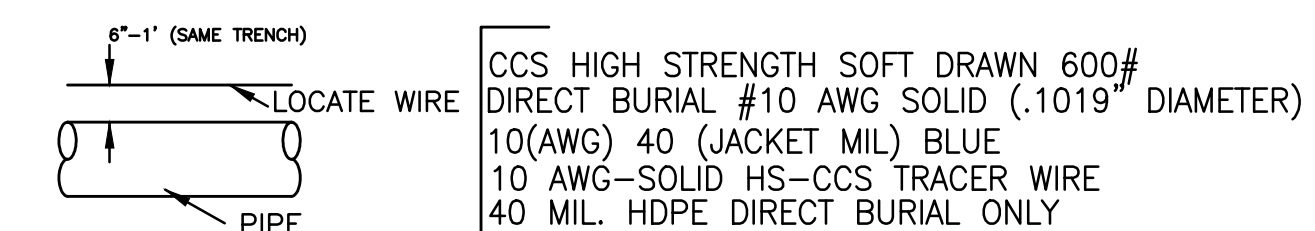
**FOR DUCTILE IRON PIPE  
SERVICE CONNECTIONS**  
NOTE: ALL FITTINGS SHALL BE NON LEAD FITTINGS.



**TYPICAL SERVICE ASSEMBLY**  
NOTE: ALL FITTINGS SHALL BE NON LEAD FITTINGS.



**TYPICAL STREET REPAIR**



**TRACER WIRE DETAIL**  
NOTES:

1. TRACER WIRE REQ'D. ON ALL PRESSUREIZED LINES 3/4" AND GREATER OR UNLESS NOTED ON PLANS.
2. ALL LOCATE WIRE TO HAVE A 3M UNDERGROUND WATER PROOF CONNECTION.