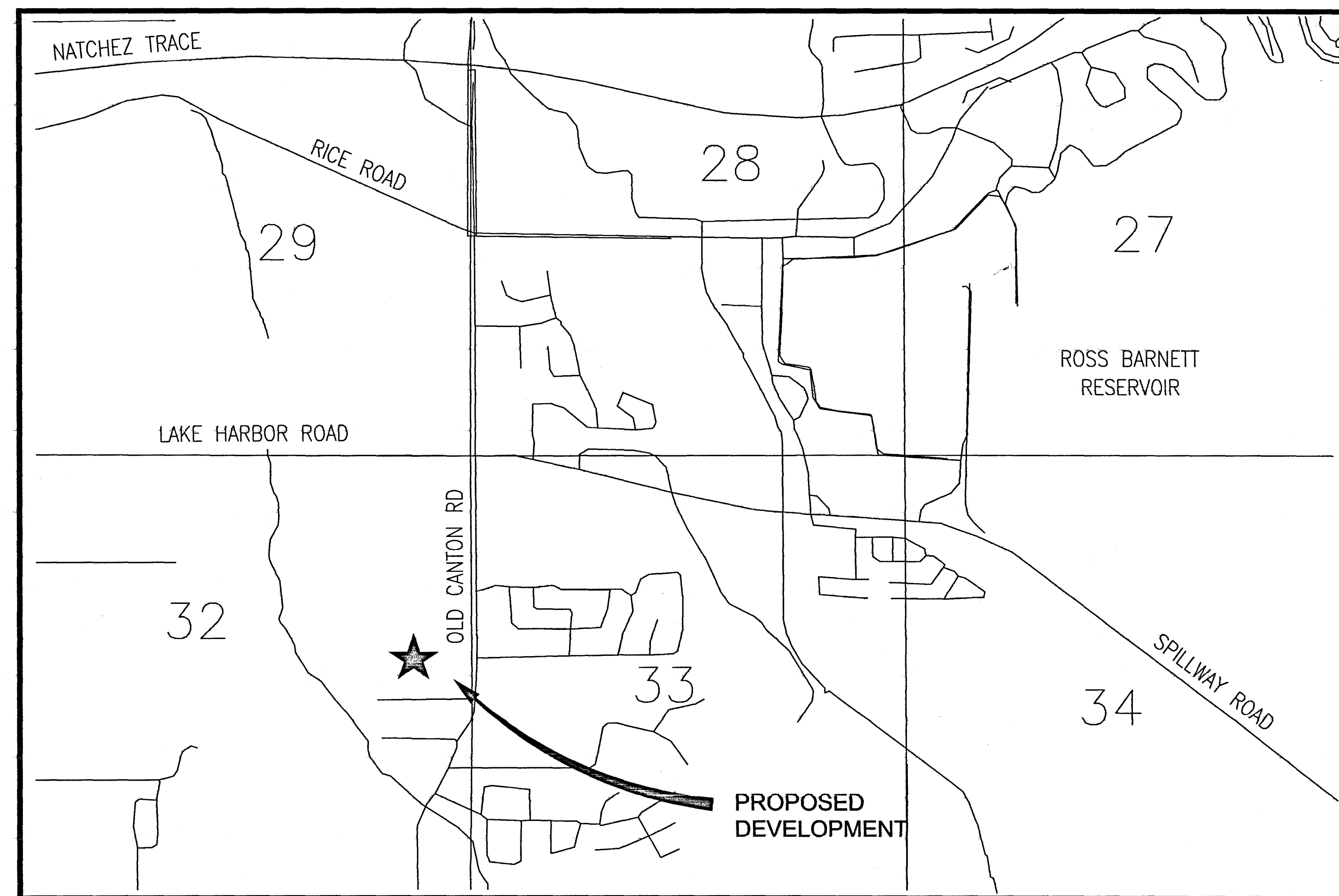


Construction Plans For Harbor Crossing Ridgeland, Mississippi

Developed By:
S.L. Sethi
1554 West Peace Street
Canton, Mississippi 39047



Drawing Index:

1. Development Plan
2. Storm Water Detention & Details
3. Erosion Control Plan
4. Utility Plan & Drawing Index

Plan-Profiles

5. Harbor Crossing ~ Sta. 1+00 - Sta. 7+00
6. Harbor Crossing ~ Sta. 7+00 - 13+00
7. Harbor Crossing ~ Sta. 13+00 - End
8. To Lake Harbor ~ Sta. 0+70 - 6+70
9. To Lake Harbor ~ Sta. 6+70 - End
10. Harbor Circle ~ Sta. 0+70 - 5+50
11. Harbor Circle ~ Sta. 5+50 - End

Striping & Intersection Details

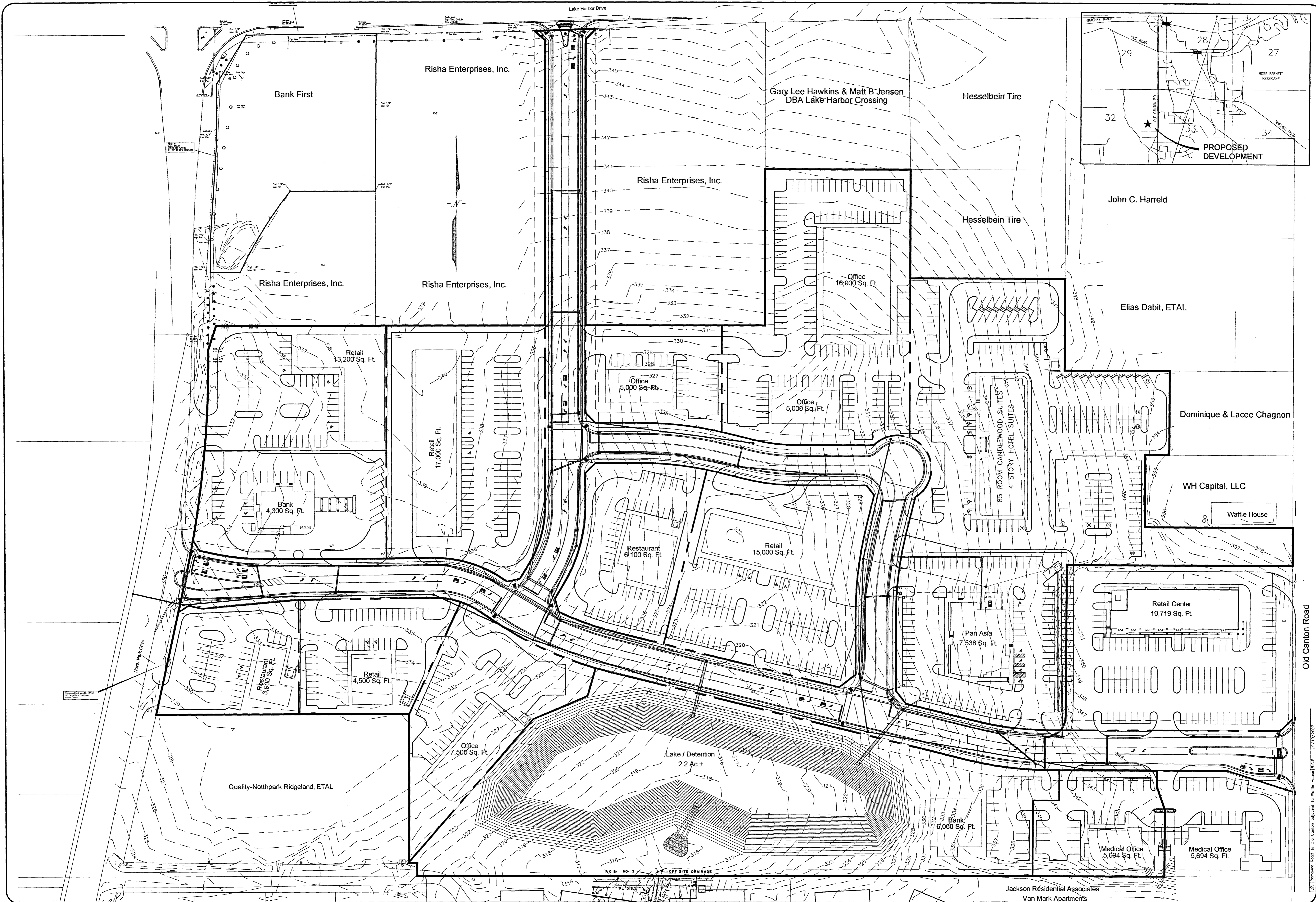
12. North Park Drive/Harbor Crossing Intersection
13. Intersection Striping Plan
14. Typical Intersection 2-Lane/3-Lane
15. Typical Street/Detention Sections & "ADA" Ramp Details
16. Typical Street Pavement Marking Details

Standards

17. Erosion Control Details
18. Miscellaneous Construction Details
19. Standard Sanitary Sewer Details
20. Standard Water Details
- Ref. Reference Drawing of Van Mark Apartment

BANKS ENGINEERING & SURVEYING, INC.
115 LONE WOLF DRIVE, SUITE B
MADISON, MISSISSIPPI 39110
601-407-1240 PHONE ~ 601-407-1245 FAX

PWP-00852



BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE 101 • MADISON, MS 39110
 OFFICE (601) 407-1240 • FAX (601) 407-1245

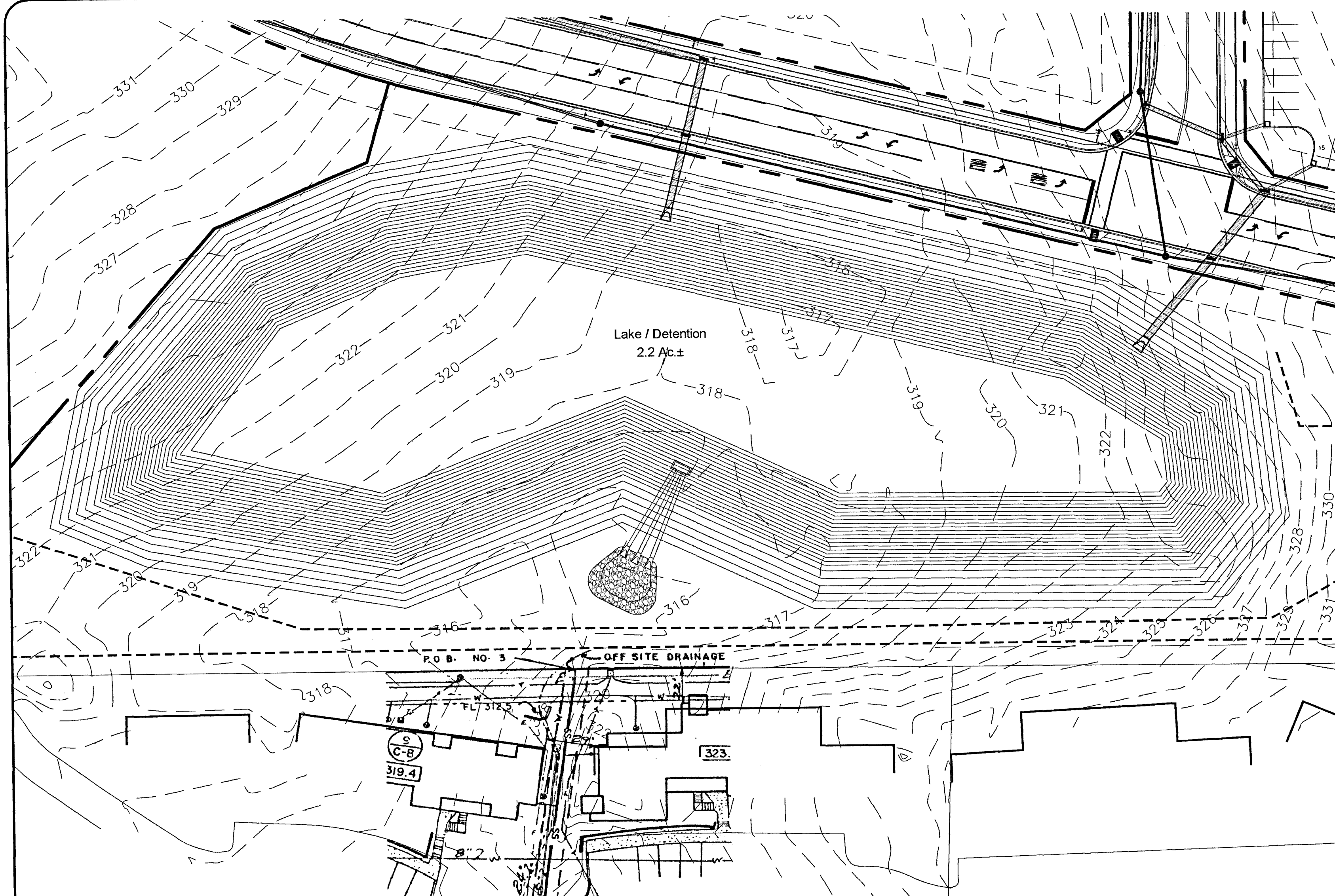
PROJECT: **Maser Development Plan for:
 Harbor Crossing
 Ridgeland, Mississippi**

CLIENT: **S.L. Sethi
 West Peace Street
 Canton, Mississippi 39046**

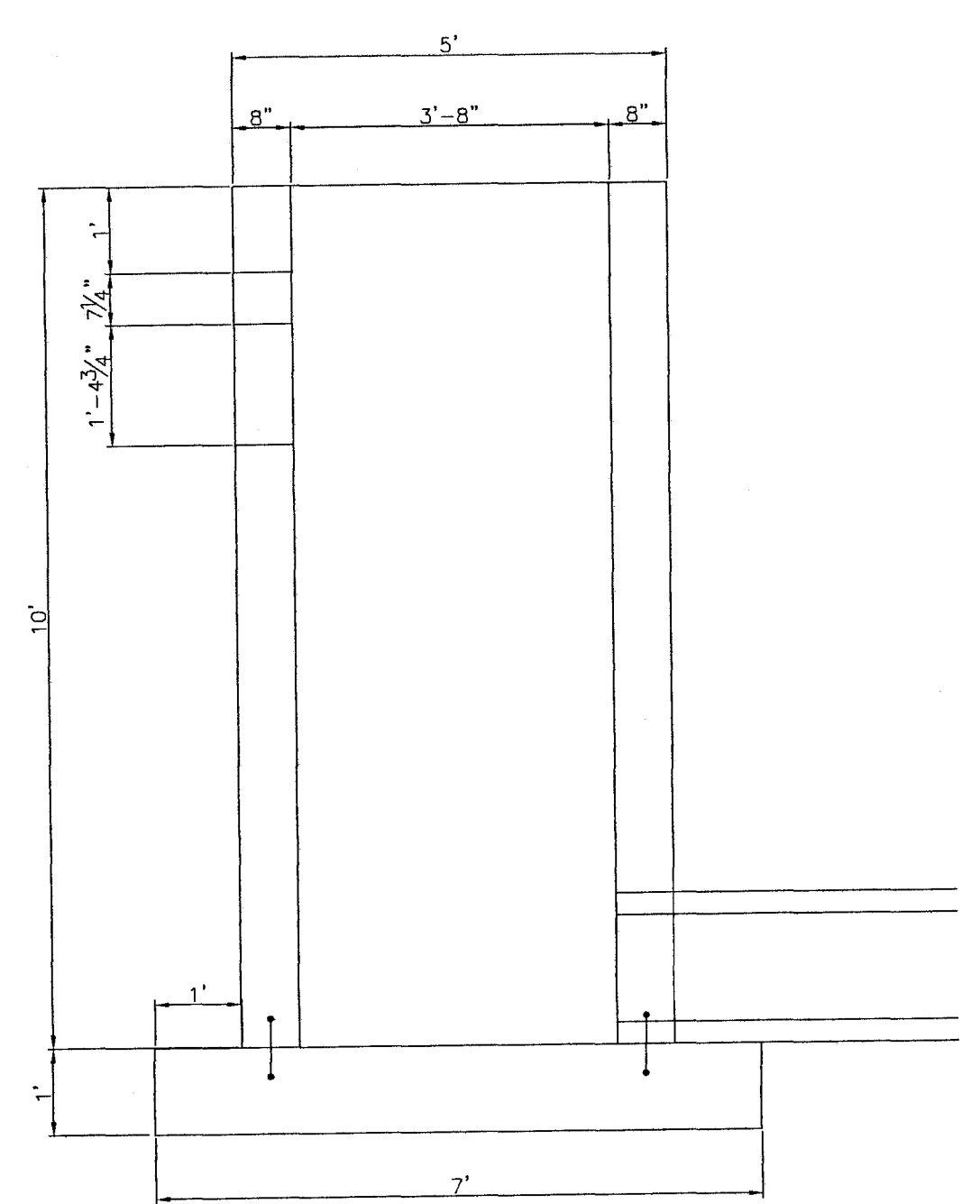
DRAWING NAME: **Master Plan.dwg**
 DRAWN BY: **B.C.S.**
 DATE OF DRAWING: **October, 2006**
 CHECKED BY:
 PROJECT NO.
 SCALE: **1" = 60'**

SHEET NO. **1**

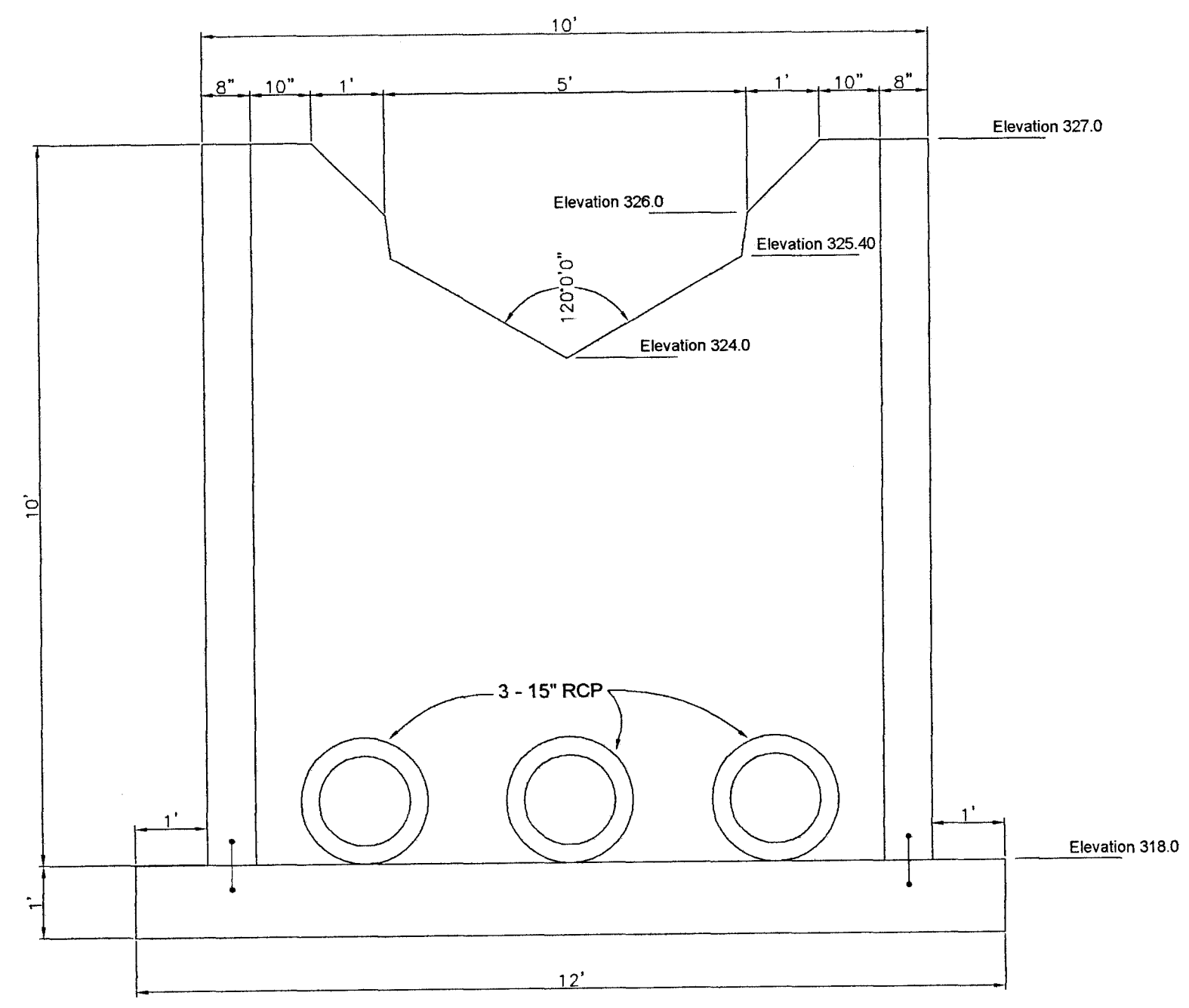
Old Canton Road
 Jackson Residential Associates
 Van Mark Apartments
 [A] Referenced Road to Old Canton adjacent to Waffle House [E.C.S. 10/19/2007]



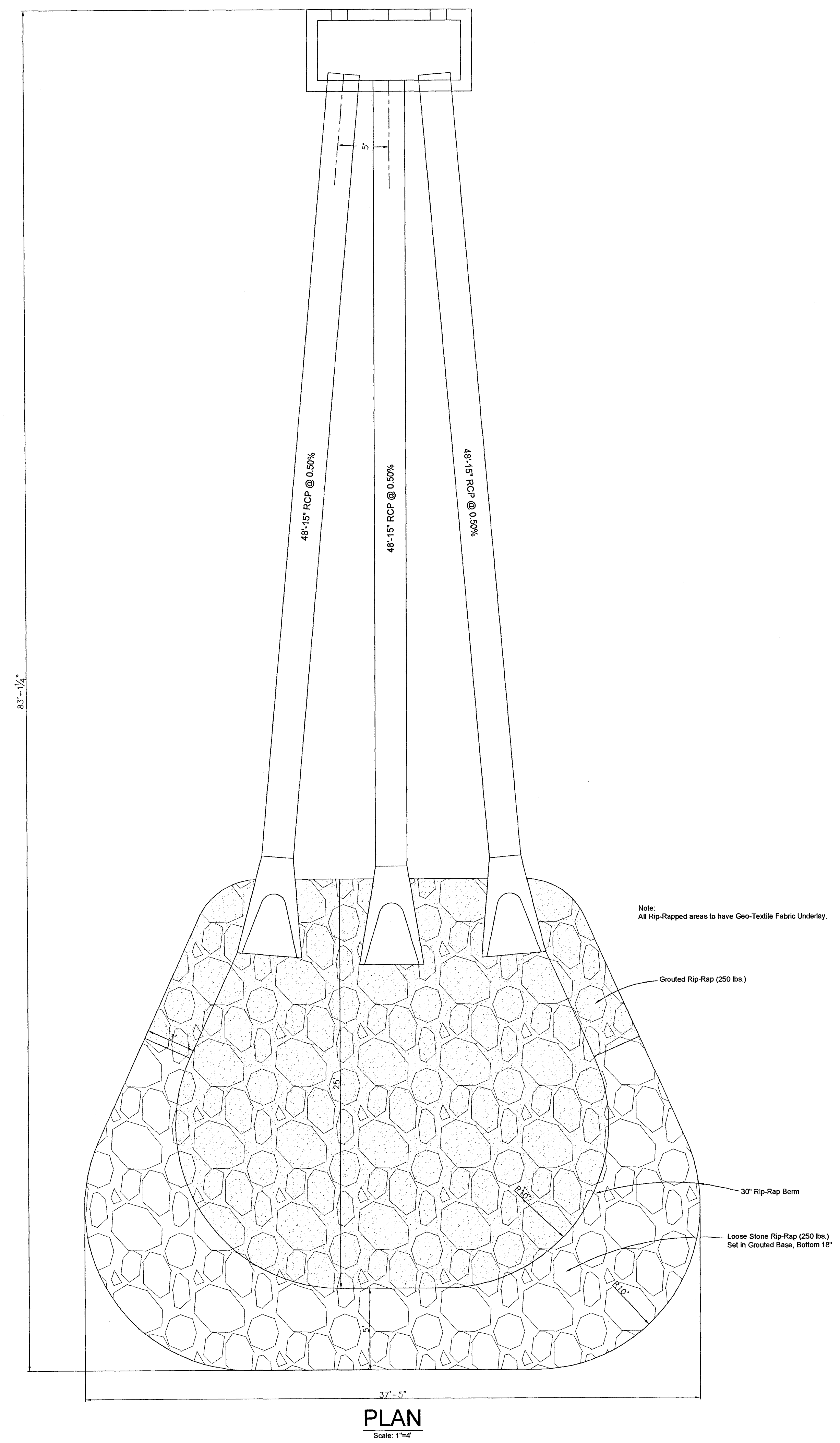
PLAN
Scale: 1"=40'



Side Elevation
Scale: 1/2"=1'



Front Elevation
Scale: 1/2"=1'



PLAN
Scale: 1"=4'

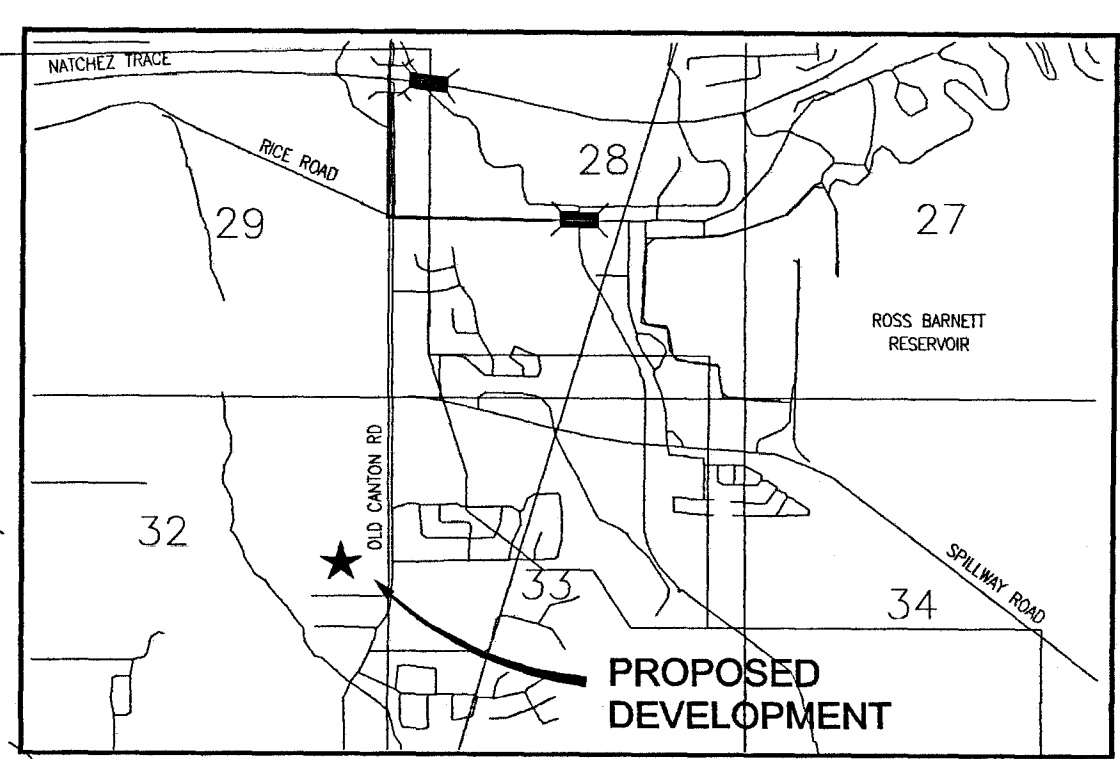
BANKS ENGINEERING & SURVEYING, INC.
115 LONE WOLF DRIVE, SUITE "B" • MADISON, MS 39110
OFFICE (601) 407-1240 • FAX (601) 407-1245

PROJECT:
Detention Plan & Details for:
Harbor Crossing
Ridgeland, Mississippi

CLIENT:
S.L. Sethi
West Peace Street
Canton, Mississippi 39046

DRAWING NAME:
Master Plan.dwg
DRAWN BY:
B.C.B.
DATE OF DRAWING:
October, 2006
CHECKED BY:
.
PROJECT NO.
SCALE:
As Shown

SHEET NO.
2



HAY BALES AND ADDITIONAL SILT FENCE TO BE UTILIZED AS NECESSARY TO PREVENT SILTATION FROM ESCAPING SITE. HAY BALES TO BE USED AROUND INLETS AS SHOWN ON SHEET 17.

SEE SHEET 17 FOR INSTALLATION DETAILS FOR EROSION CHECKS AND SILT FENCE.

DEVELOPER TO TAKE ANY MEASURES NECESSARY, WHICH MAY BE GREATER THAN THOSE SHOWN HEREON, TO PREVENT SILTATION FROM ESCAPING SITE.

TRASH RECEPTACLE AND PORTABLE TOILET TO BE PROVIDED DURING CONSTRUCTION.

NO STORAGE OF PAINTS, SOLVENTS, CHEMICALS ETC. ALLOWED ON SITE.

DEVELOPER WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES REQUIRED BY MADISON COUNTY AND APPROVED IN THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

IF ANY DISTURBED AREA WILL BE LEFT UNDISTURBED FOR MORE THAN 30 DAYS, A TEMPORARY OR PERMANENT VEGETATIVE PRACTICE WILL BE IMPLEMENTED WITHIN 7 DAYS.

EROSION CONTROL MEASURES SHALL BE INSPECTED PER THE MOEG SWPPP REQUIREMENTS.

NO EQUIPMENT REPAIR ALLOWED ON SITE. ROUTINE MAINTENANCE (FUELING, ETC.) TO BE PERFORMED IN HOUSEKEEPING AREA DESIGNATED HEREON.

BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" • MADISON, MS 39110
 OFFICE (601) 407-1240 • FAX (601) 407-1245

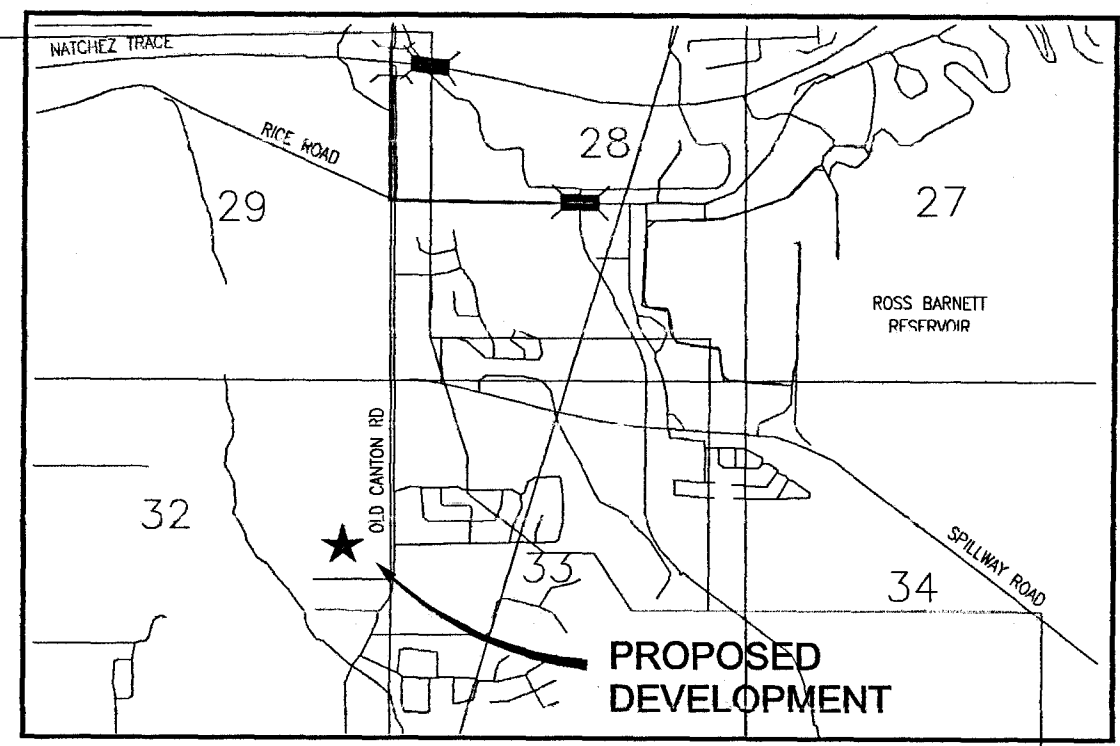
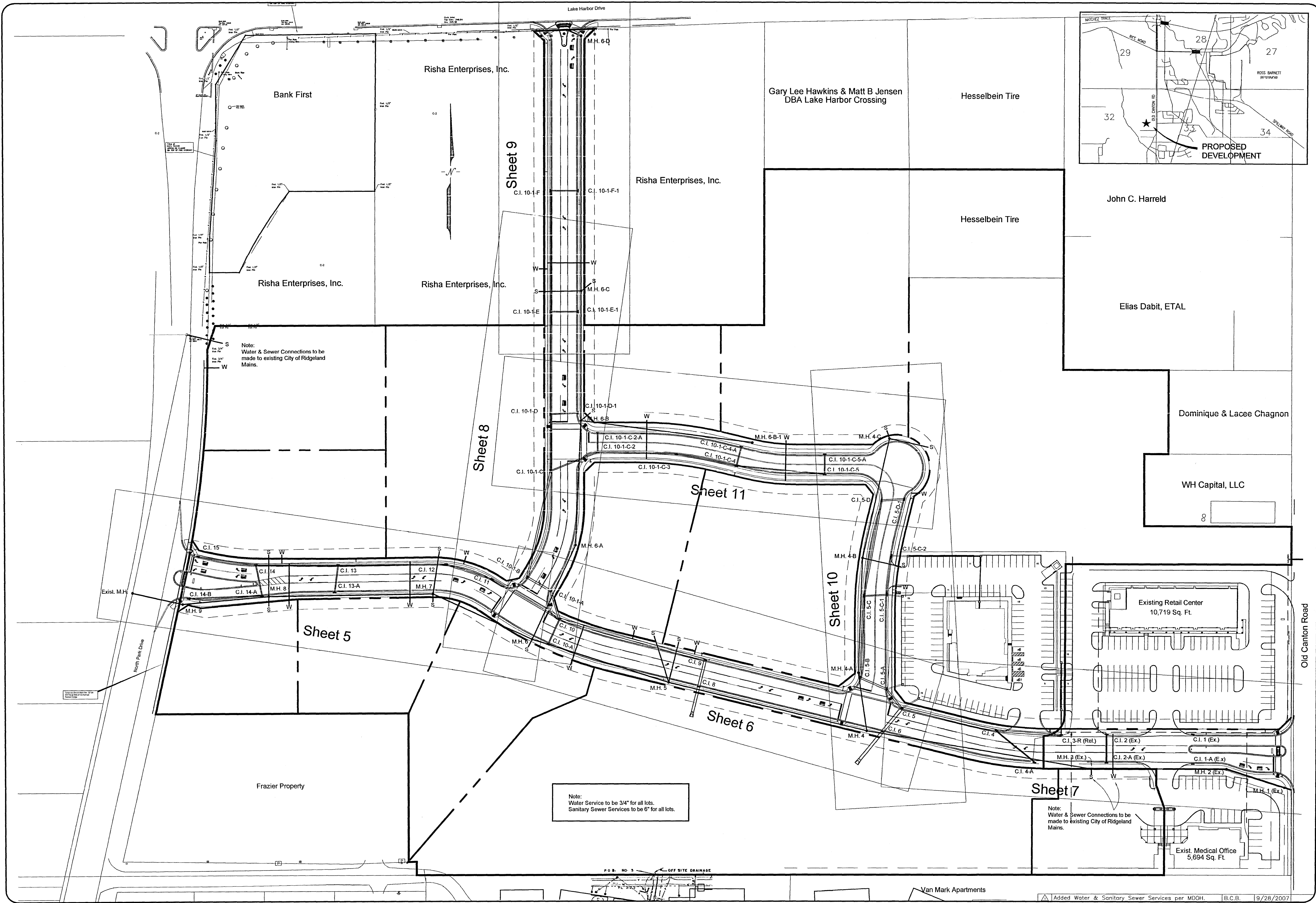
Erosion Control Plan for:
 Harbor Crossing
 Ridgeland, Mississippi

S.L. Sethi
 West Peace Street
 Canton, Mississippi 39046

DRAWING NAME:
 Master Plan.dwg
 DRAWN BY:
 B.C.B.
 DATE OF DRAWING:
 October, 2006
 CHECKED BY:

PROJECT NO.
 SCALE:
 1" = 60'

SHEET NO.
3



BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE 'B' • MADISON, MS 39110
 OFFICE (601) 407-1240 • FAX (601) 407-1245

PROJECT: Utility Layout & Sheet Index for:
 Harbor Crossing
 Ridgeland, Mississippi

CLIENT: **S.L. Sethi**
 West Peace Street
 Canton, Mississippi 39046

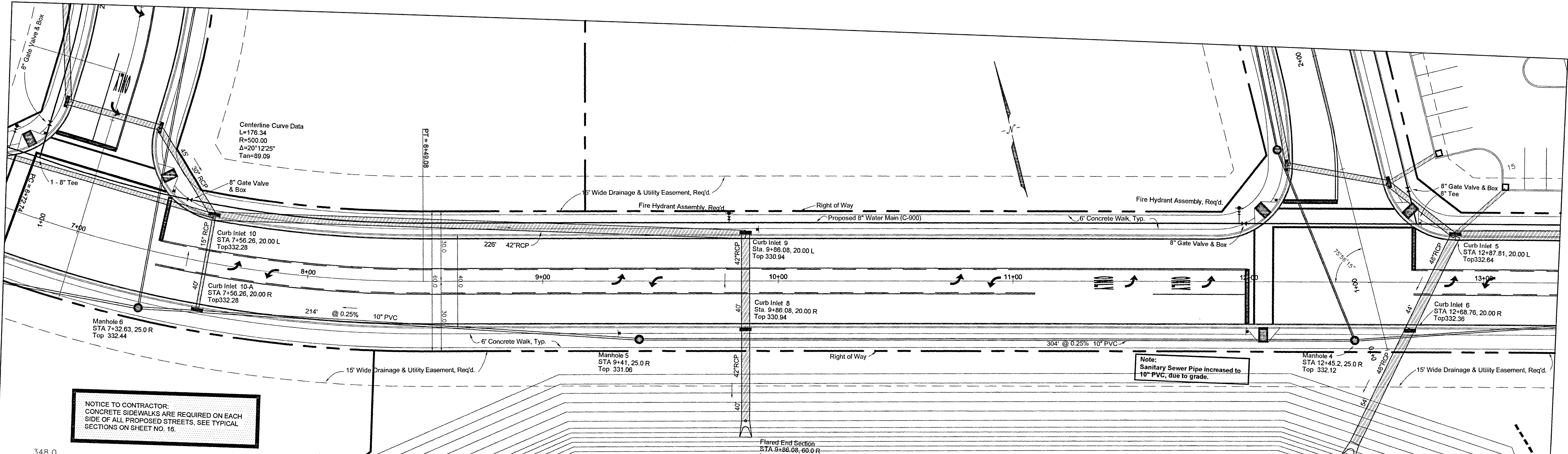
DRAWING NAME: Master Plan.dwg
 DRAWN BY: B.C.B.
 DATE OF DRAWING: October, 2006
 CHECKED BY:
 PROJECT NO.
 SCALE: 1" = 60'

SHEET NO. **4**

Note:
 Water Service to be 3/4" for all lots.
 Sanitary Sewer Services to be 6" for all lots.

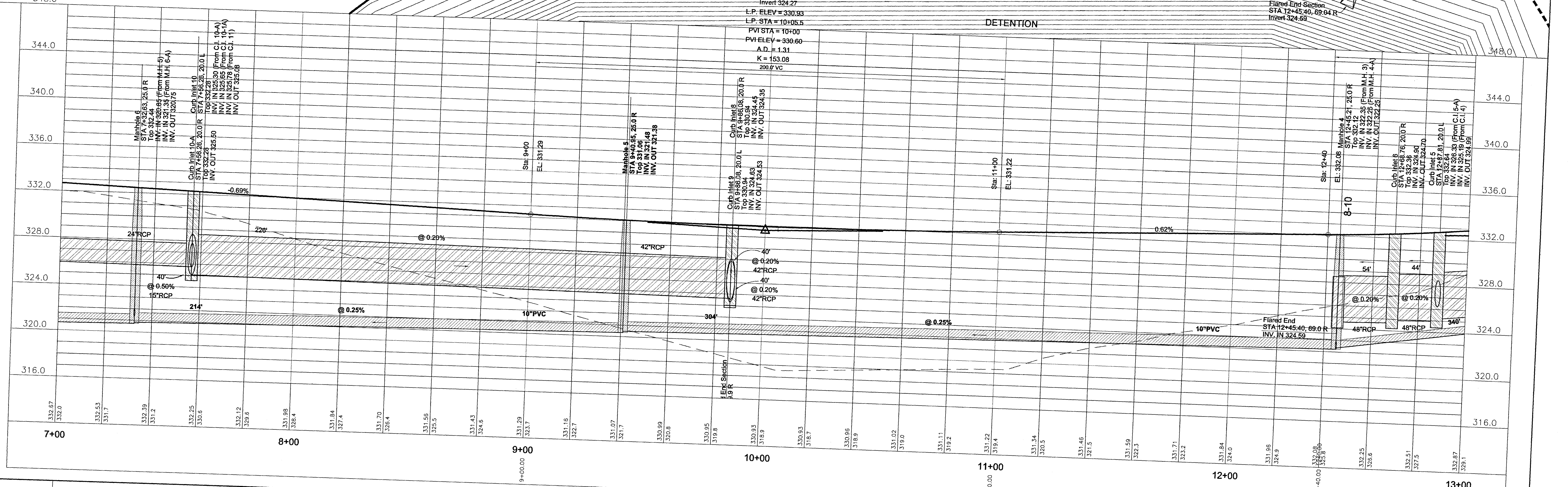
Note:
 Water & Sewer Connections to be made to existing City of Ridgeland Mains.

Note:
 Water & Sewer Connections to be made to existing City of Ridgeland Mains.



NOTICE TO CONTRACTOR:
 CONCRETE SIDEWALKS ARE REQUIRED ON EACH SIDE OF ALL PROPOSED STREETS, SEE TYPICAL SECTIONS ON SHEET NO. 16.

Note:
 Sanitary Sewer Pipe increased to 10" PVC, due to grade.



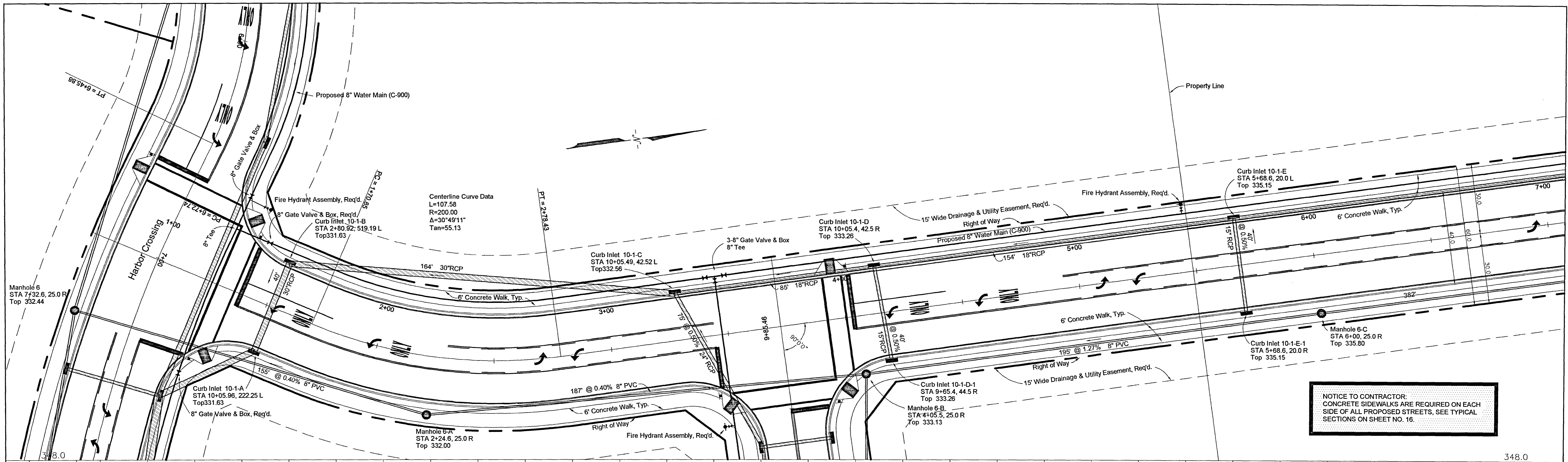
| | |
|-------------------|---|
| October 26, 2006 | Revisions per City of Ridgeland comments dated October 20, 2006. |
| February 23, 2007 | Revisions per City of Ridgeland comments dated February 23, 2007. |
| April 27, 2007 | Grade adjusted made to sanitary sewer. |
| JUNE 26, 2007 | Added Notes, Corrected Profile Stations |

S. L. SETHI
 1554 WEST PEACE STREET
 CANTON, MISSISSIPPI 39046
 (601)-855-0146 ~ (601)-855-9305 FAX

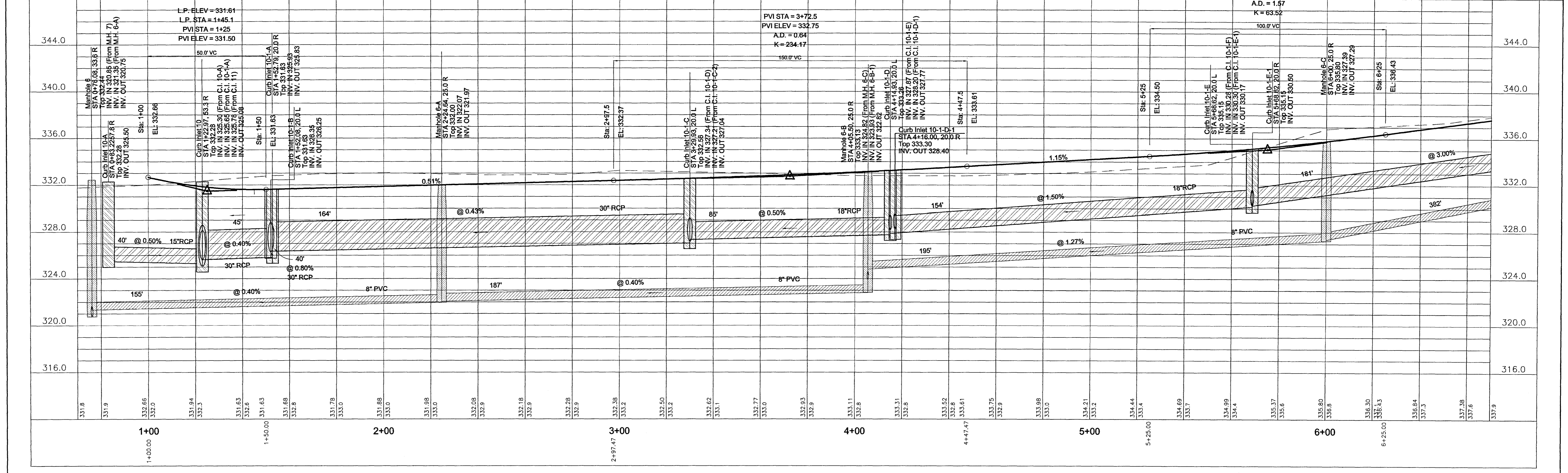
BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE B
 MADISON, MISSISSIPPI 39110
 (601)407-1240 ~ (601)407-1245 FAX

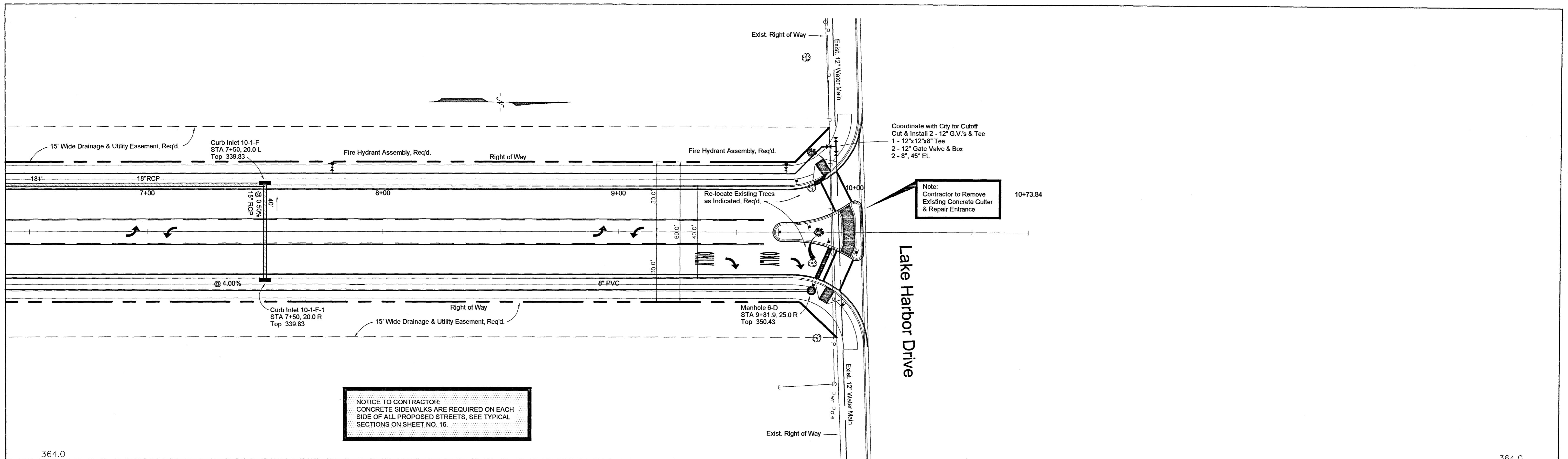
HARBOR CROSSING ~ Sta. 7+00 - 13+00
HARBOR CROSSING
RIDGELAND, MISSISSIPPI

SCALE: 1" = 20' HORIZ.
 1" = 4' VERT.

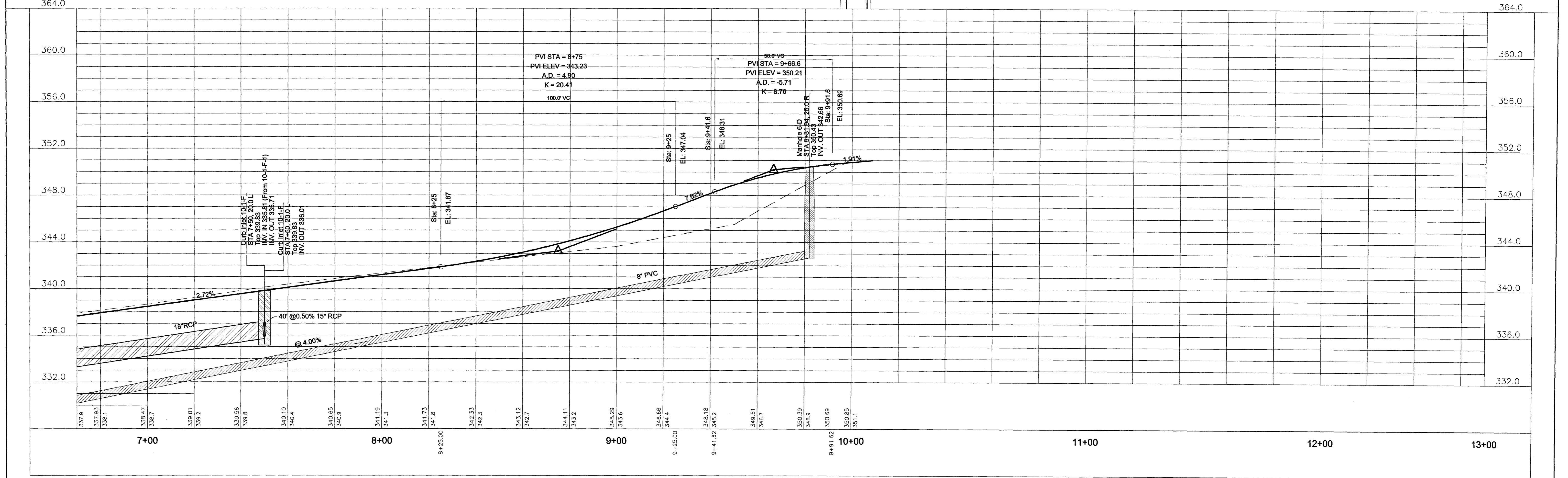


NOTICE TO CONTRACTOR:
 CONCRETE SIDEWALKS ARE REQUIRED ON EACH SIDE OF ALL PROPOSED STREETS, SEE TYPICAL SECTIONS ON SHEET NO. 16.

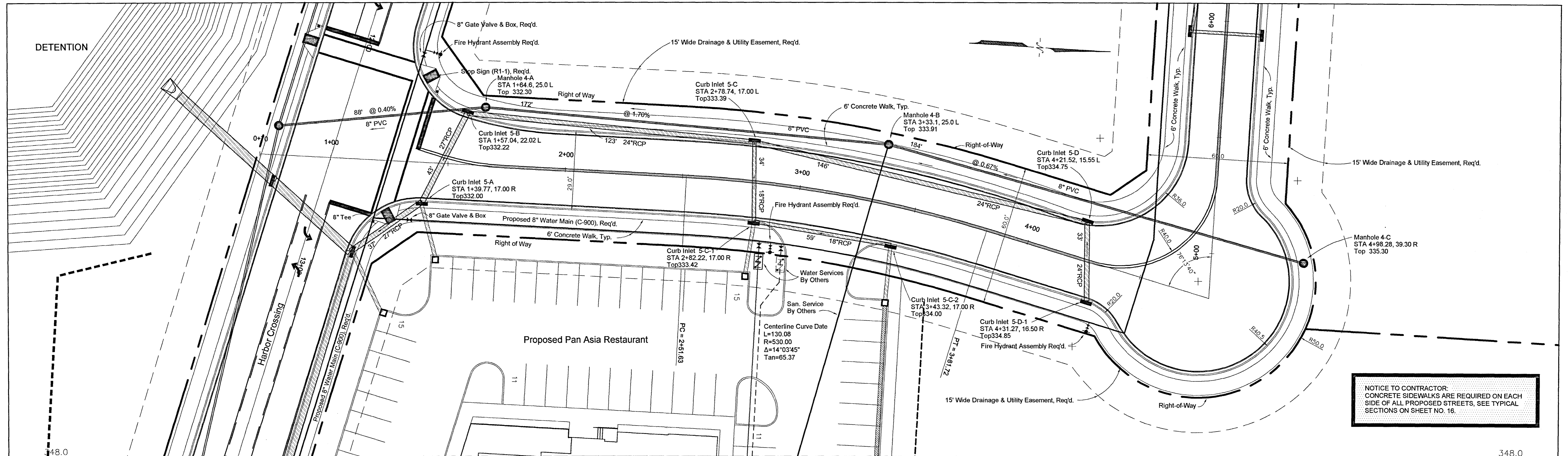




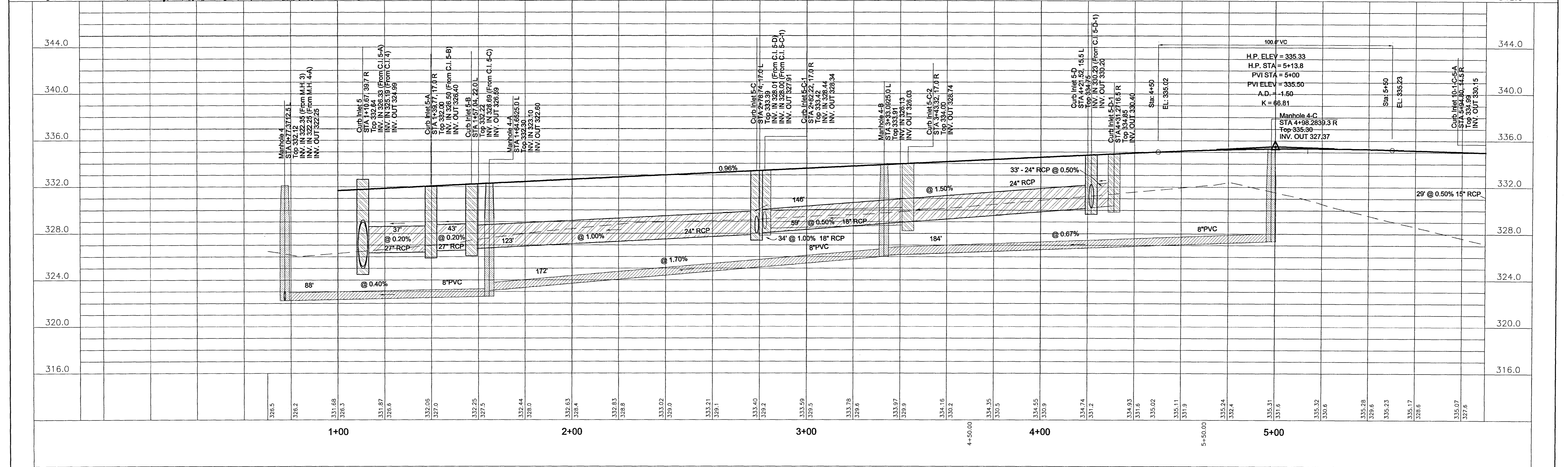
NOTICE TO CONTRACTOR:
 CONCRETE SIDEWALKS ARE REQUIRED ON EACH
 SIDE OF ALL PROPOSED STREETS, SEE TYPICAL
 SECTIONS ON SHEET NO. 16.



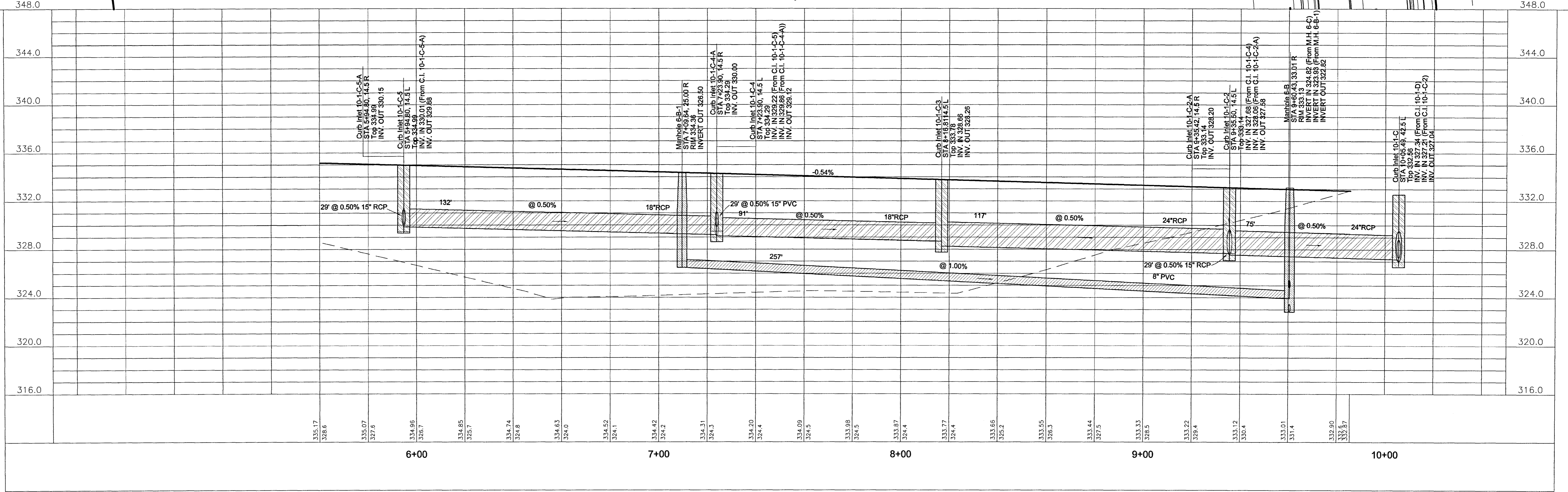
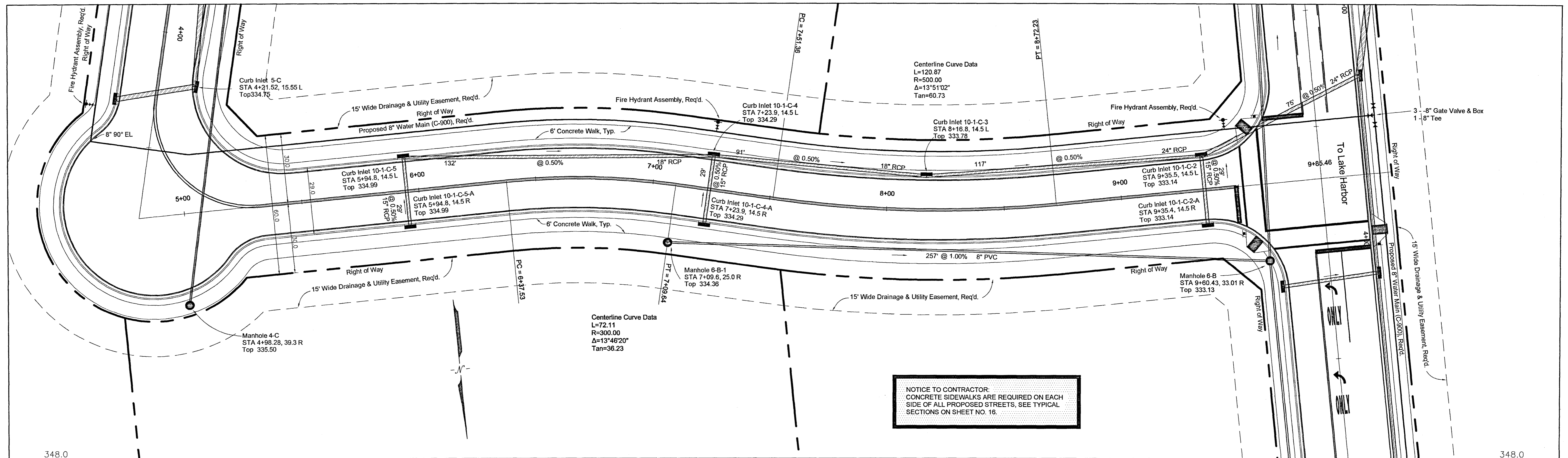
| | | | | | |
|-------------------|---|---|--|---|----------|
| October 26, 2006 | Revisions per City of Ridgeland comments dated October 20, 2006. | <p align="center">S. L. SETHI</p> <p align="center">1554 WEST PEACE STREET CANTON, MISSISSIPPI 39046 (601)-855-0146 ~ (601)-855-9305 FAX</p> | <p align="center">BANKS ENGINEERING & SURVEYING, INC.</p> <p align="center">115 LONE WOLF DRIVE, SUITE B MADISON, MISSISSIPPI 39110 (601)407-1240 ~ (601)407-1245 FAX</p> | To Lake Harbor ~ Sta. 6+70 - End | |
| February 23, 2007 | Revisions per City of Ridgeland comments dated February 23, 2007. | | | HARBOR CROSSING | |
| June 27, 2007 | Revised Sanitary Sewer Grades | | | RIDGELAND, MISSISSIPPI | |
| | | | | SCALE: 1" = 20' HORIZ. 1" = 4' VERT. | 9 |



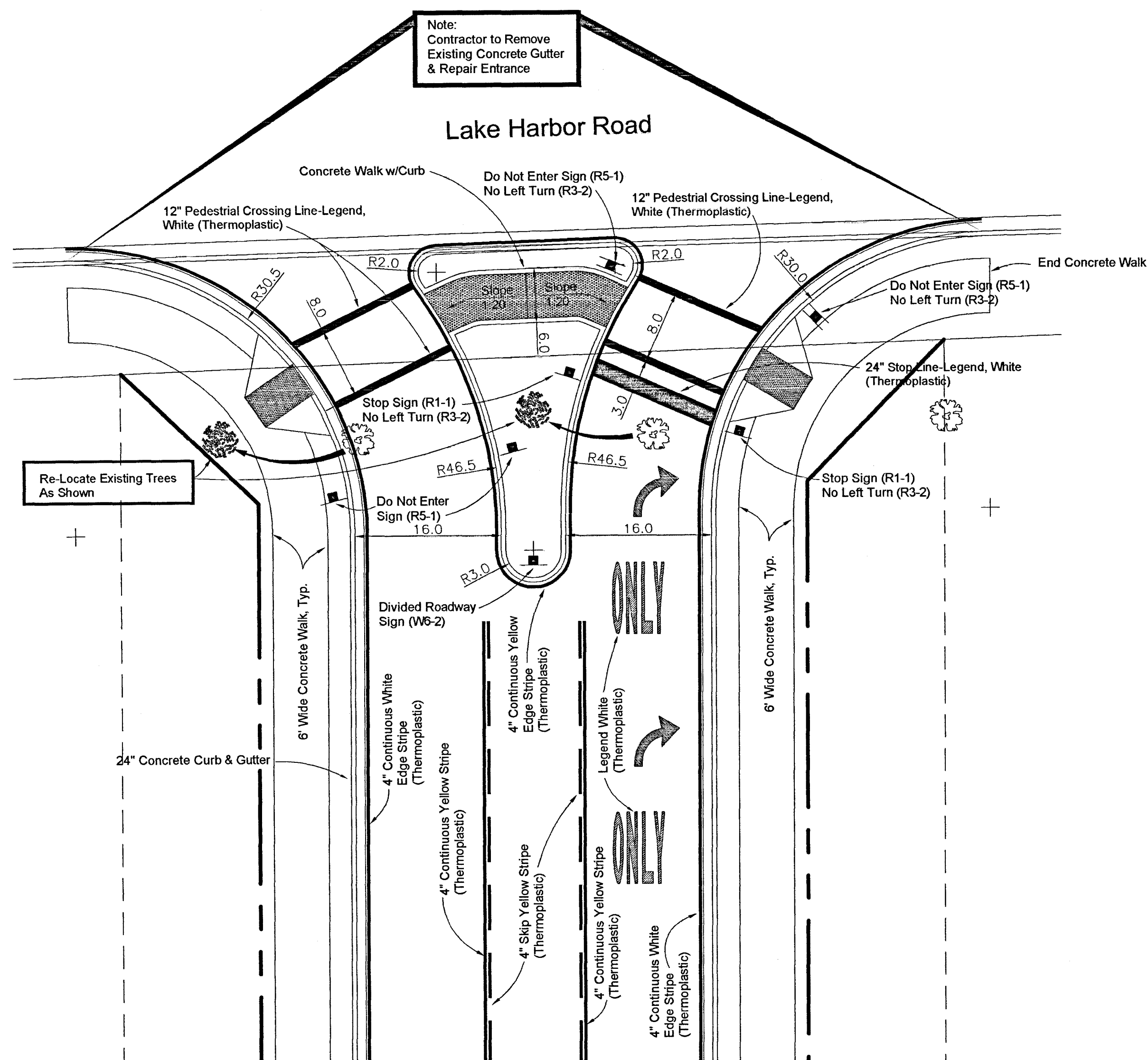
NOTICE TO CONTRACTOR:
 CONCRETE SIDEWALKS ARE REQUIRED ON EACH SIDE OF ALL PROPOSED STREETS. SEE TYPICAL SECTIONS ON SHEET NO. 16.



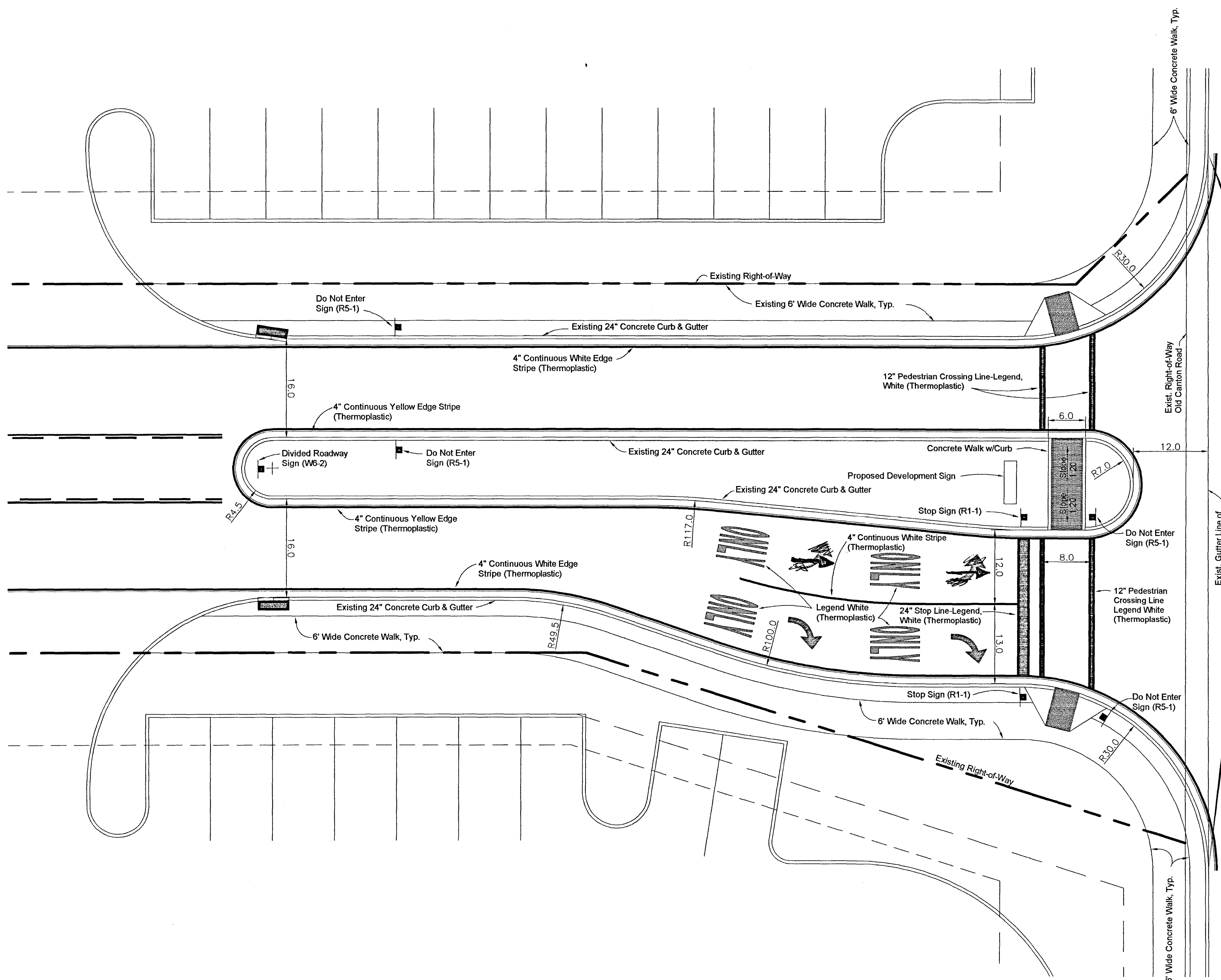
| | | | | |
|-------------------|---|--|---|---|
| October 26, 2006 | Revisions per City of Ridgeland comments dated October 20, 2006. | S. L. SETHI 1554 WEST PEACE STREET CANTON, MISSISSIPPI 39046 (601)-855-0146 ~ (601)-855-9305 FAX | BANKS ENGINEERING & SURVEYING, INC. 115 LONE WOLF DRIVE, SUITE B MADISON, MISSISSIPPI 39110 (601)407-1240 ~ (601)407-1245 FAX | Harbor Circle ~ Sta. 0+70 - Sta. 5+50 |
| February 23, 2007 | Revisions per City of Ridgeland comments dated February 23, 2007. | | | HARBOR CROSSING |
| April 27, 2007 | Grade adjusted made to sanitary sewer. | | | RIDGELAND, MISSISSIPPI |
| June 26, 2007 | Grade adjusted made to Storm Sewer | | | SCALE: 1" = 20' HORIZ. 1" = 4' VERT. |



| | | | | | |
|-------------------|---|--|---|---|--|
| October 26, 2006 | Revisions per City of Ridgeland comments dated October 20, 2006. | S. L. SETHI 1554 WEST PEACE STREET CANTON, MISSISSIPPI 39046 (601)-855-0146 ~ (601)-855-9305 FAX | BANKS ENGINEERING & SURVEYING, INC. 115 LONE WOLF DRIVE, SUITE B MADISON, MISSISSIPPI 39110 (601)407-1240 ~ (601)407-1245 FAX | Harbor Circle ~ Sta. 5+50 - End HARBOR CROSSING RIDGELAND, MISSISSIPPI | |
| February 23, 2007 | Revisions per City of Ridgeland comments dated February 23, 2007. | | | SCALE: 1" = 20' HORIZ. 1" = 4' VERT. | |
| June 27, 2007 | Added Storm Cross Drains | | | 11 | |



Intersection Striping Plan
Lake Harbor Road & "To Lake Harbor"



Intersection Striping Plan
Harbor Crossing & Old Canton Road"

| DATE | REVISION |
|---------|--|
| 3/05/07 | Stop Bar revision per City comments, dated March 2, 2007 |
| | |
| | |

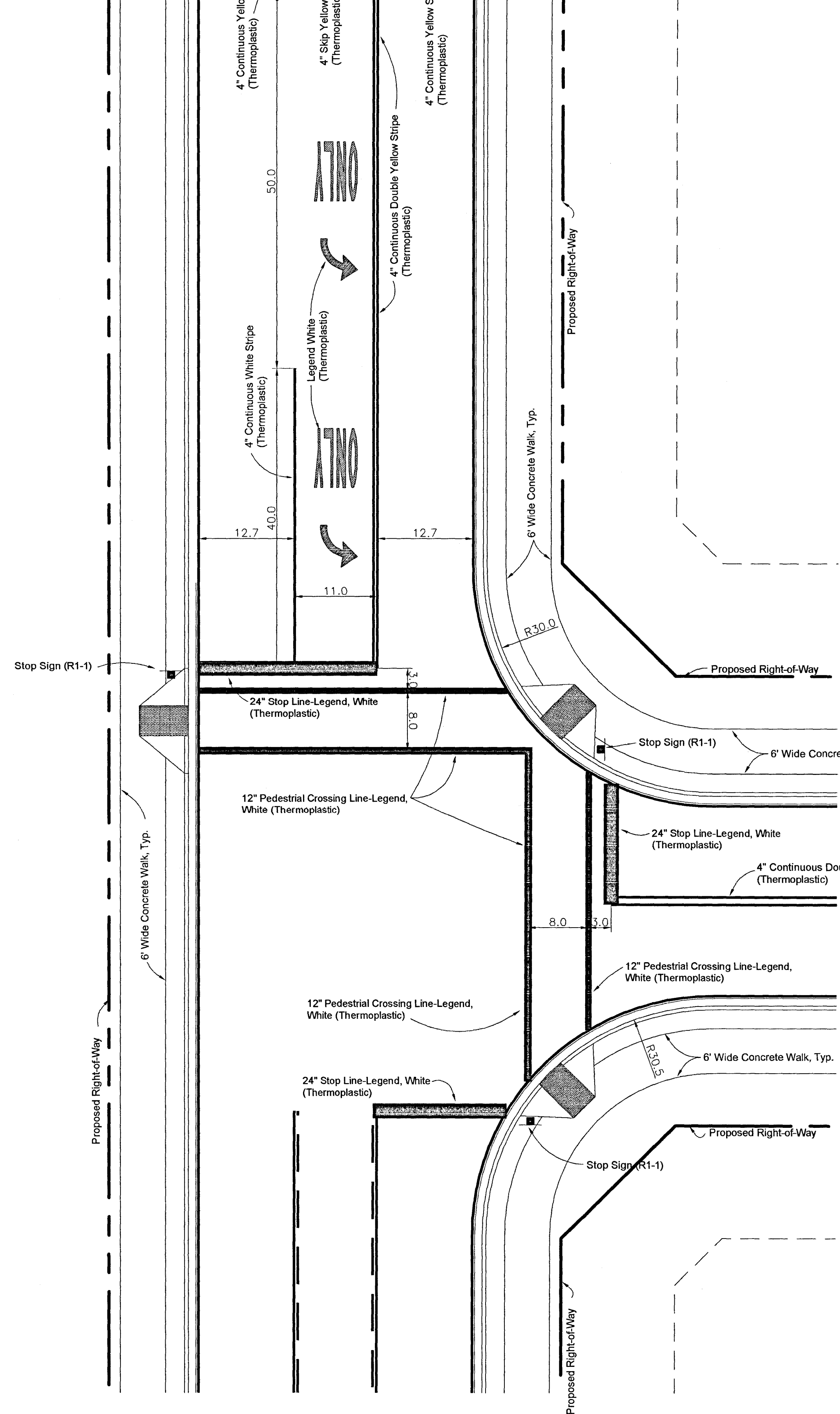
| | |
|--------------------------|---------------|
| DRAWING NAME: | |
| DRAWN BY: | SCALE: 1"=10' |
| DATE OF DRAWING: 2/23/07 | PROJECT NO.: |
| CHECKED BY: | APPROVED BY: |

B BANKS ENGINEERING & SURVEYING, INC.
115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
OFFICE (601) 407-1240 * FAX (601) 407-1245

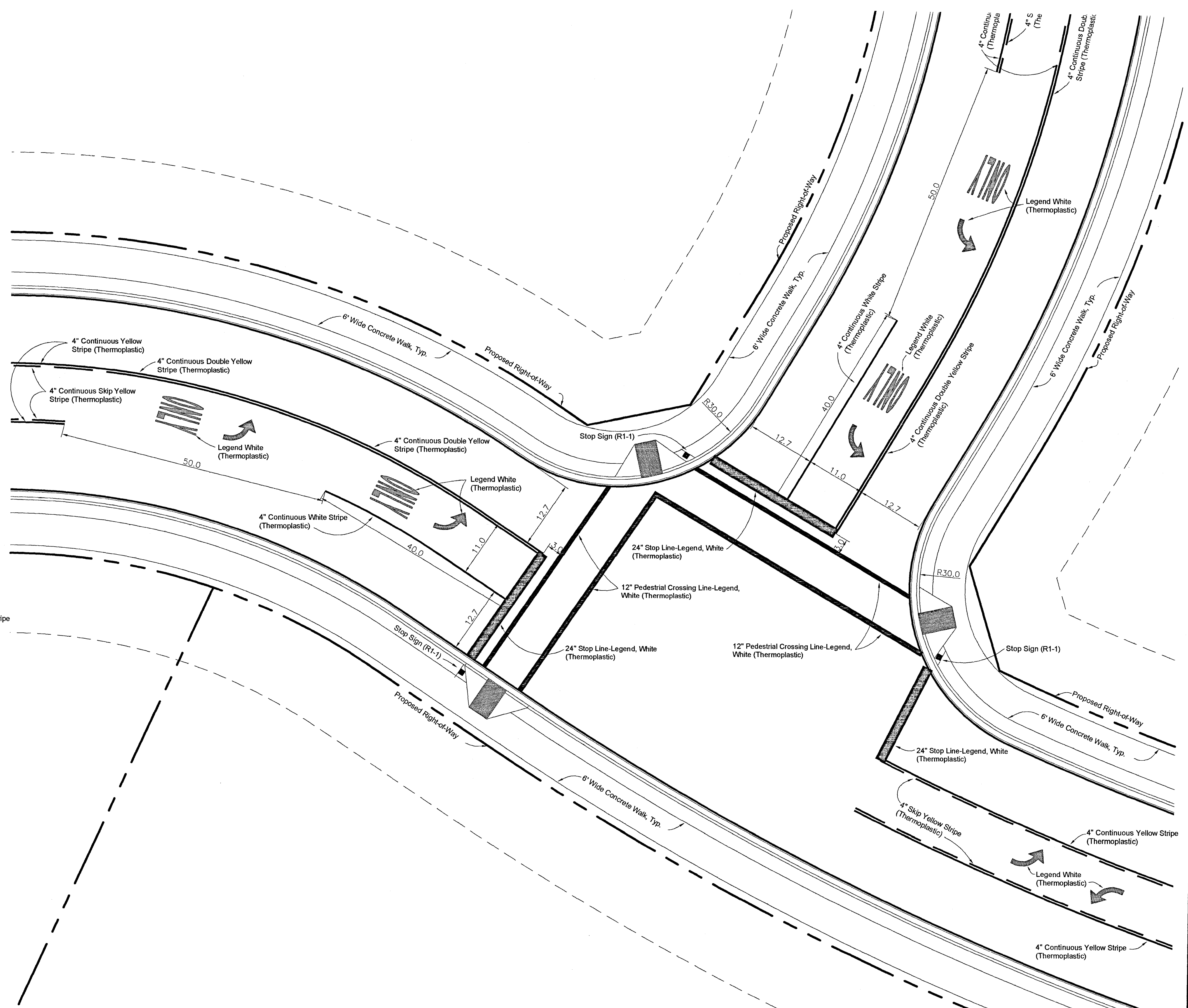
CLIENT:
DR. S.L. SETHI
1554 West Peace Street
Canton, Mississippi

PROJECT:
INTERSECTION STRIPING PLAN
Harbor Crossing
CITY OF RIDGELAND, MISSISSIPPI

SHEET NO.
13



Typical Intersection Striping Plan
3-Lane Roadway ~ 2-Lane Roadway



Intersection Striping Plan
Harbor Crossing & "To Lake Harbor"

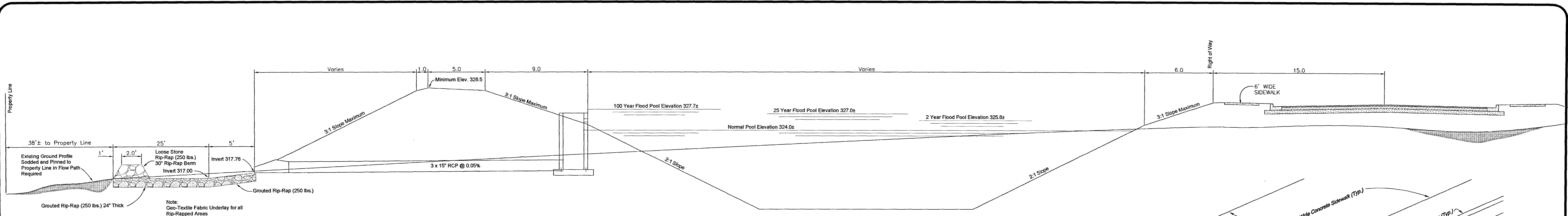
| DATE | REVISION |
|--------|--|
| 3/5/07 | Stop Bar revision per City comments, dated March 2, 2007 |
| | |
| | |
| | |

DRAWING NAME: _____
 DRAWN BY: _____ SCALE: 1"=10'
 DATE OF DRAWING: 2/23/07 PROJECT NO.: _____
 CHECKED BY: _____ APPROVED BY: _____

B BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

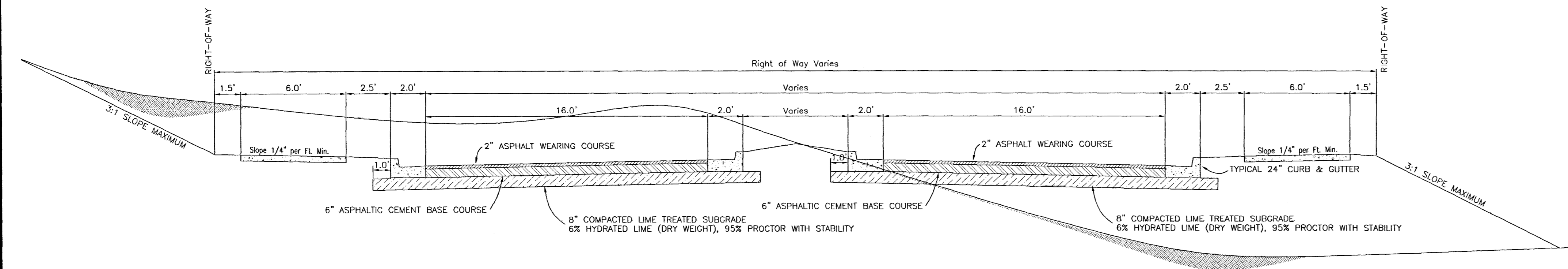
CLIENT:
DR. S.L. SETHI
 1554 West Peace Street
 Canton, Mississippi

PROJECT:
 TYPICAL INTERSECTION 2-LANE/3-LANE
 HARBOR CROSSING
 CITY OF RIDGELAND, MISSISSIPPI



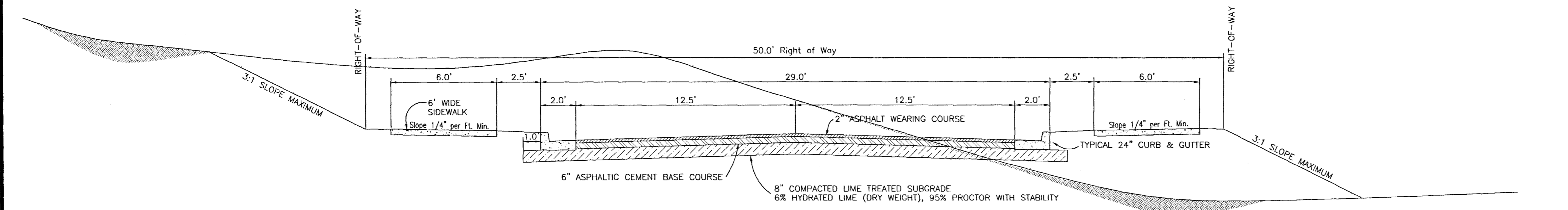
TYPICAL SECTION THRU DETENTION

Scale: 1"=8'



TYPICAL BOULEVARD SECTION

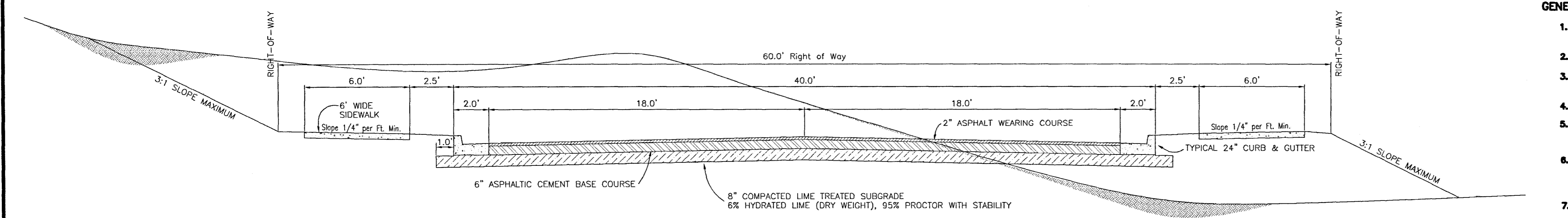
Scale: 1"=4'



TYPICAL STREET SECTION HARBOR CIRCLE

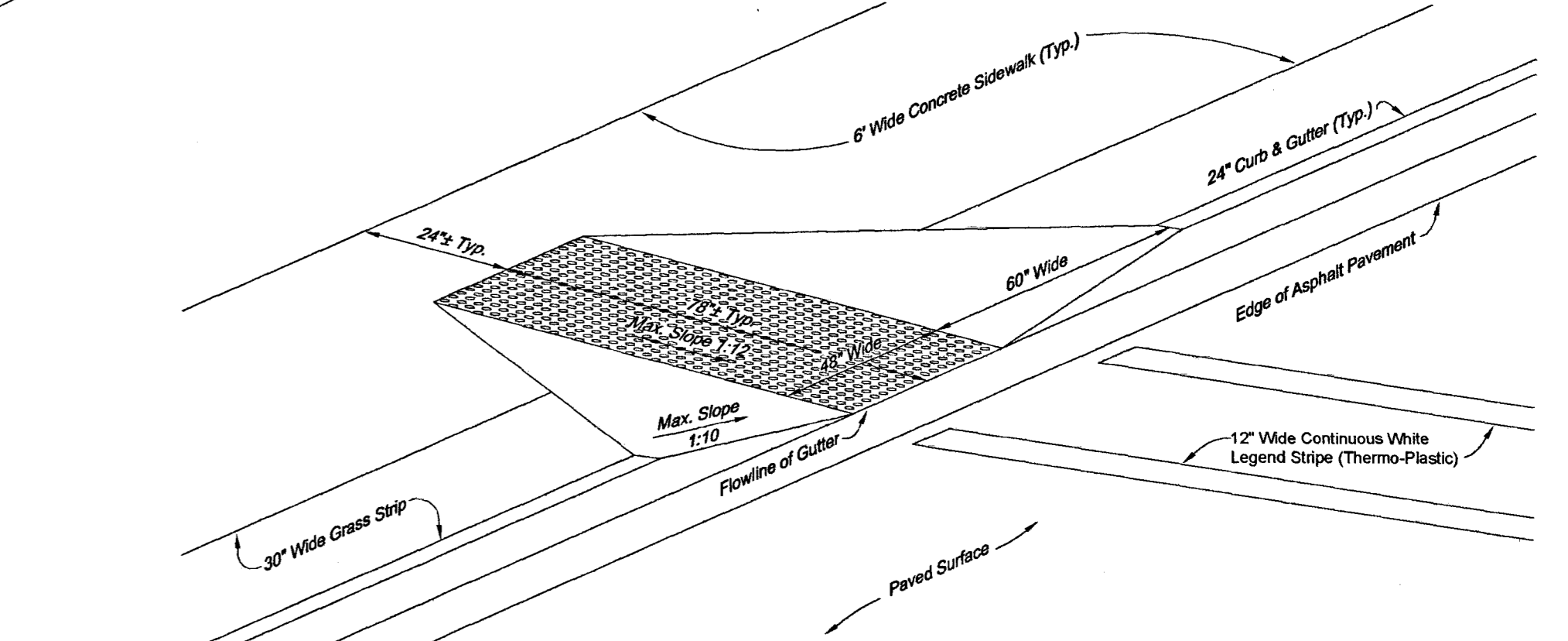
Scale: 1"=4'

- NOTES:
1. ALL CURBS, GUTTERS, SIDEWALKS & DRIVEWAYS TO BE CONSTRUCTED OF 3500 LB. CONCRETE.
 2. 2-3/4" 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.
 3. ALL LINEAR CONCRETE SURFACES SHALL HAVE A 1/2" EXPANSION JOINT WITH FIBER BOARD FILLER AT 20' O.C. AND 1/4"x1" DEEP CONTRACTION JOINTS AT 10' O.C.



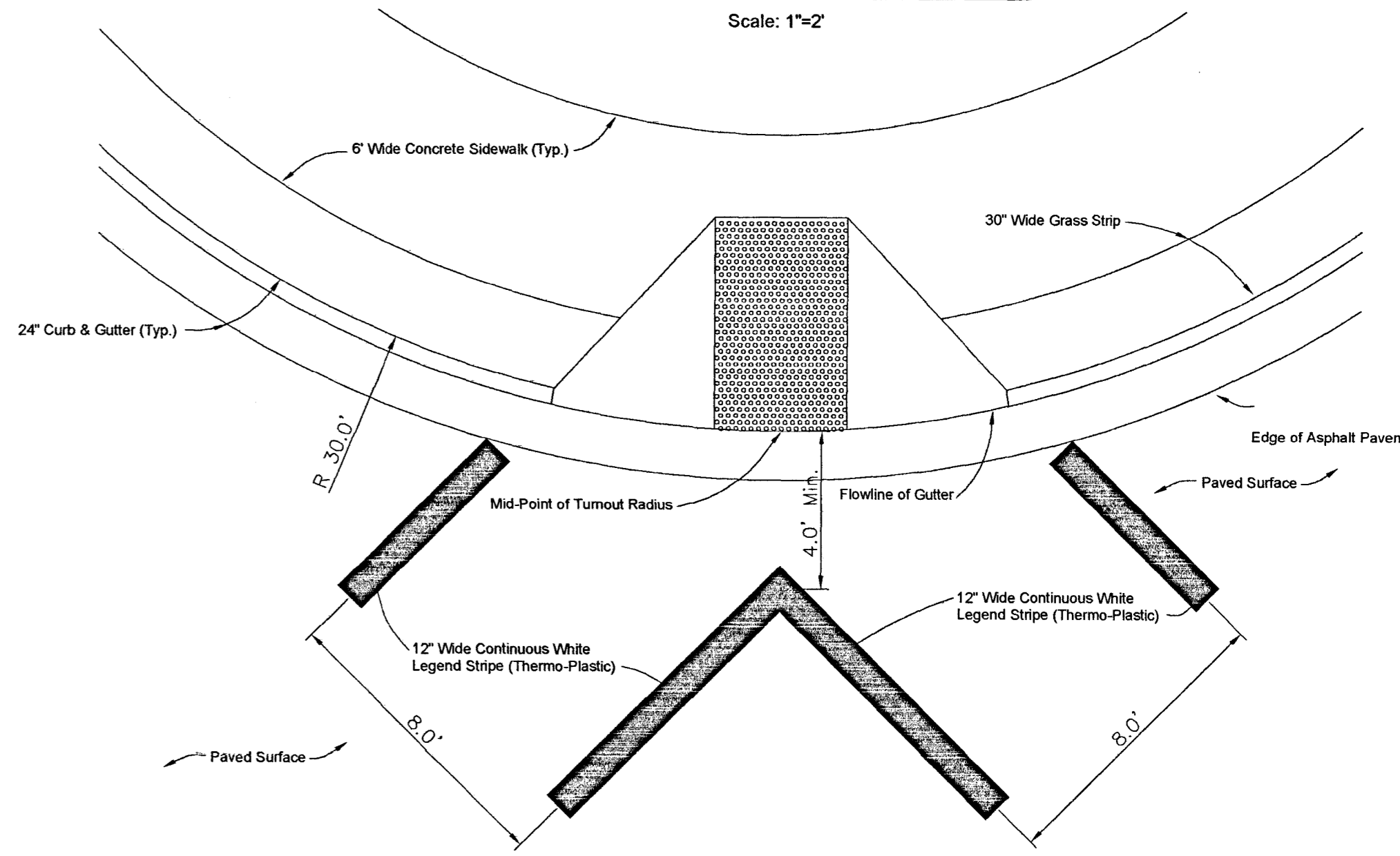
TYPICAL STREET SECTION HARBOR CROSSING & ROAD TO LAKE HARBOR

Scale: 1"=4'



TYPICAL ADA ACCESS RAMP

Scale: 1"=2'

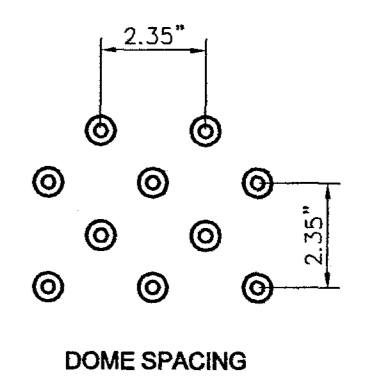
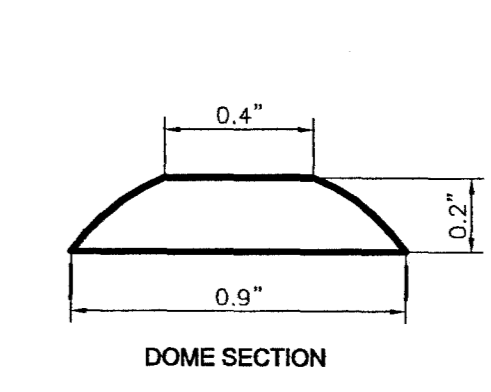


TYPICAL "ADA" ACCESS RAMP IN RADIUS

Scale: 1"=2'

GENERAL NOTES:

1. LOCATION AND TYPE OF CURB RAMP SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED.
2. THE CURB RAMP SHALL BE PAID FOR AS SIDEWALK.
3. THE THICKNESS OF THE CURB RAMP SHALL BE A MINIMUM OF 4".
4. ALL RAMP SLOPES SHALL NOT BE STEEPER THAN 1:21.
5. DETECTABLE WARNINGS ARE REQ'D. ON CURB CUT RAMPS AT ALL STREET CROSSINGS AND AT SIGNALIZED DRIVEWAY CROSSINGS.
6. THERE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AREA AND THE ADJOINING AREAS, OR THE DETECTABLE AREA SHALL BE "SAFETY YELLOW".
7. TOPMARK PREFORMED THERMOPLASTIC DETECTABLE WARNING SURFACE AREA - SAFETY YELLOW (SEE MANUFACTURER FOR INSTALLATION DETAILS)



"ADA" DETECTABLE WARNINGS (TRUNCATED DOMES)

Not To Scale

| DATE | REVISION |
|----------|---|
| 02/02/07 | Added Detail Sidewalk at Intersection 1-30-2007 |
| | |
| | |
| | |

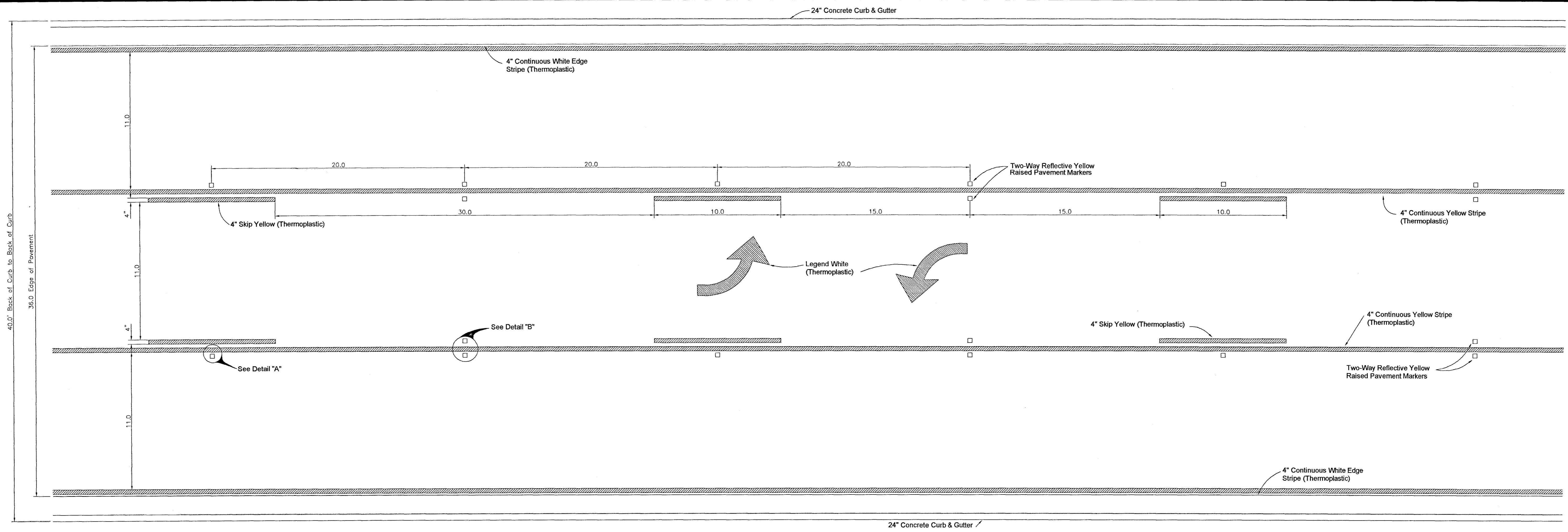
| | |
|-----------------------------------|-----------------|
| DRAWING NAME: | |
| DRAWN BY: | SCALE: As Shown |
| DATE OF DRAWING: October 25, 2007 | PROJECT NO.: |
| CHECKED BY: | APPROVED BY: |

B BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

CLIENT:
DR. S.L. SETHI
 1554 West Peace Street
 Canton, Mississippi

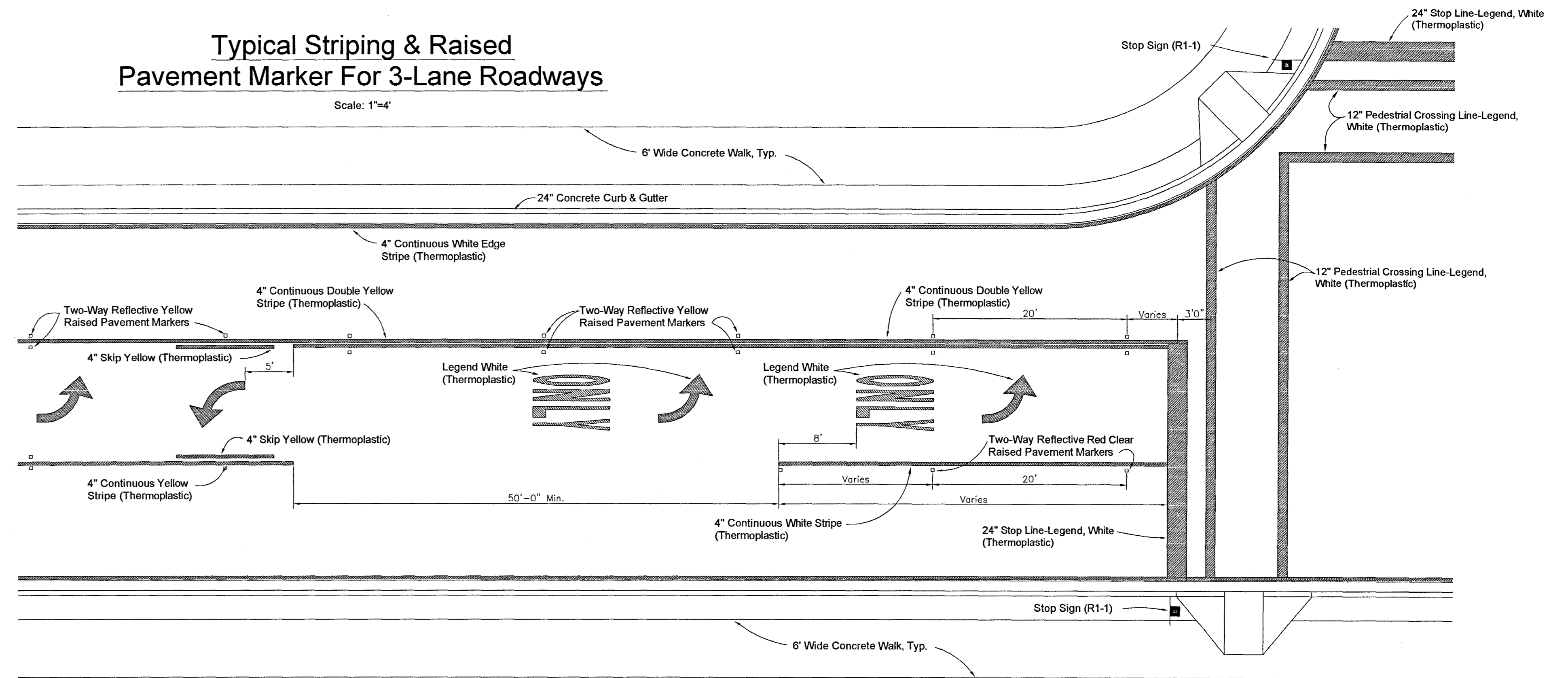
PROJECT:
 TYPICAL STREET/DETENTION SECTIONS &
 "ADA" RAMP DETAILS FOR HARBOR CROSSING
 CITY OF RIDGELAND, MISSISSIPPI

SHEET NO.
15



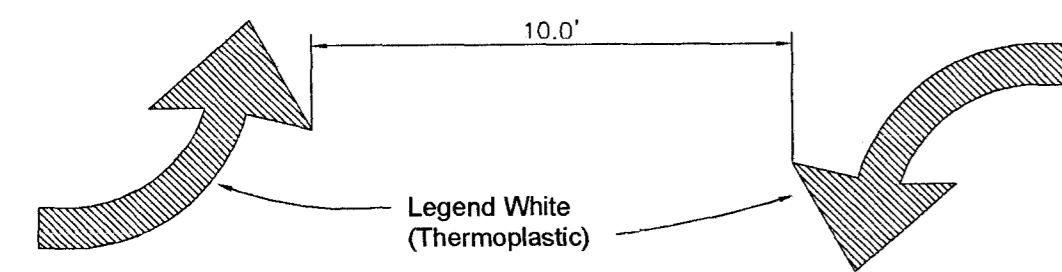
Typical Striping & Raised Pavement Marker For 3-Lane Roadways

Scale: 1"=4'



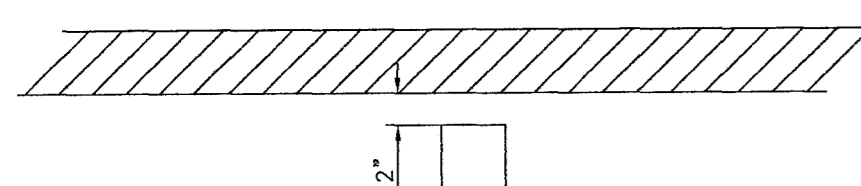
Typical Striping & Raised Pavement Marker Left Turn Lane

Scale: 1"=8'



Typical Two-Way Turn Arrow Installation

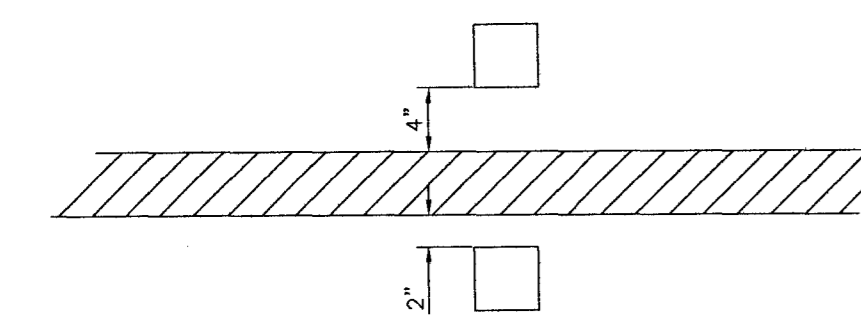
Scale: 1"=1'



Detail "A"

Lateral Placement of Pavement Markers

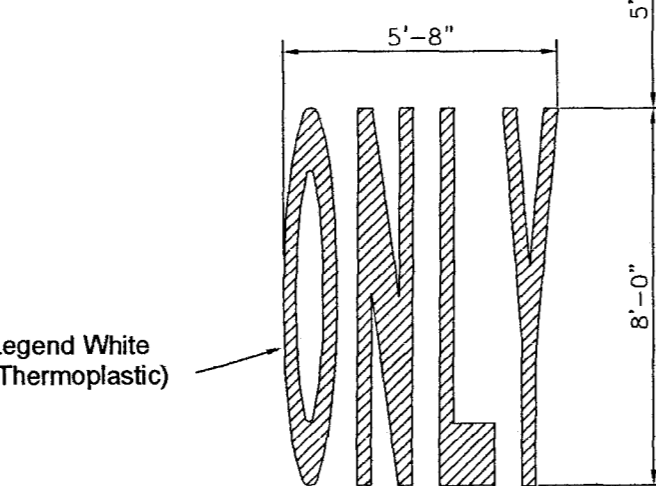
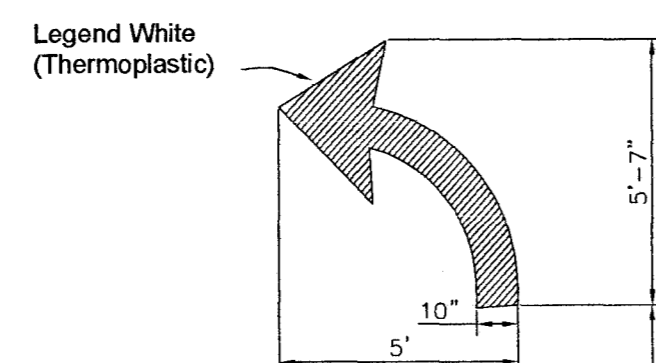
Scale: 1"=1'



Detail "B"

Lateral Placement of Pavement Markers

Scale: 1"=1'



Typical Legend Left Turn Only

Scale: 1"=4'

- Note:
- All Striping Shall Be Thermoplastic.
 - Pavement Markers Shall be High Performance Raised Pavement Markers as Listed in the MDOT "Approved" Sources of Materials.
 - Two-Way Turn Arrows Shall be Placed as Indicated on Plan-Profile Drawings, with Spacing Not to Exceed 250' O.C. (Locations Show Will be to the Centerline of Each Pair).
 - 24" Stop Bars Shall be Used at All Intersections as Shown on the Intersection Details & Plan-Profile Drawings.

| DATE | REVISION |
|-----------|--|
| 2/24/2007 | City Comments 1-30-2007 |
| 3/5/2007 | Stop Bar revision per City comments, dated March 2, 2007 |
| | |
| | |

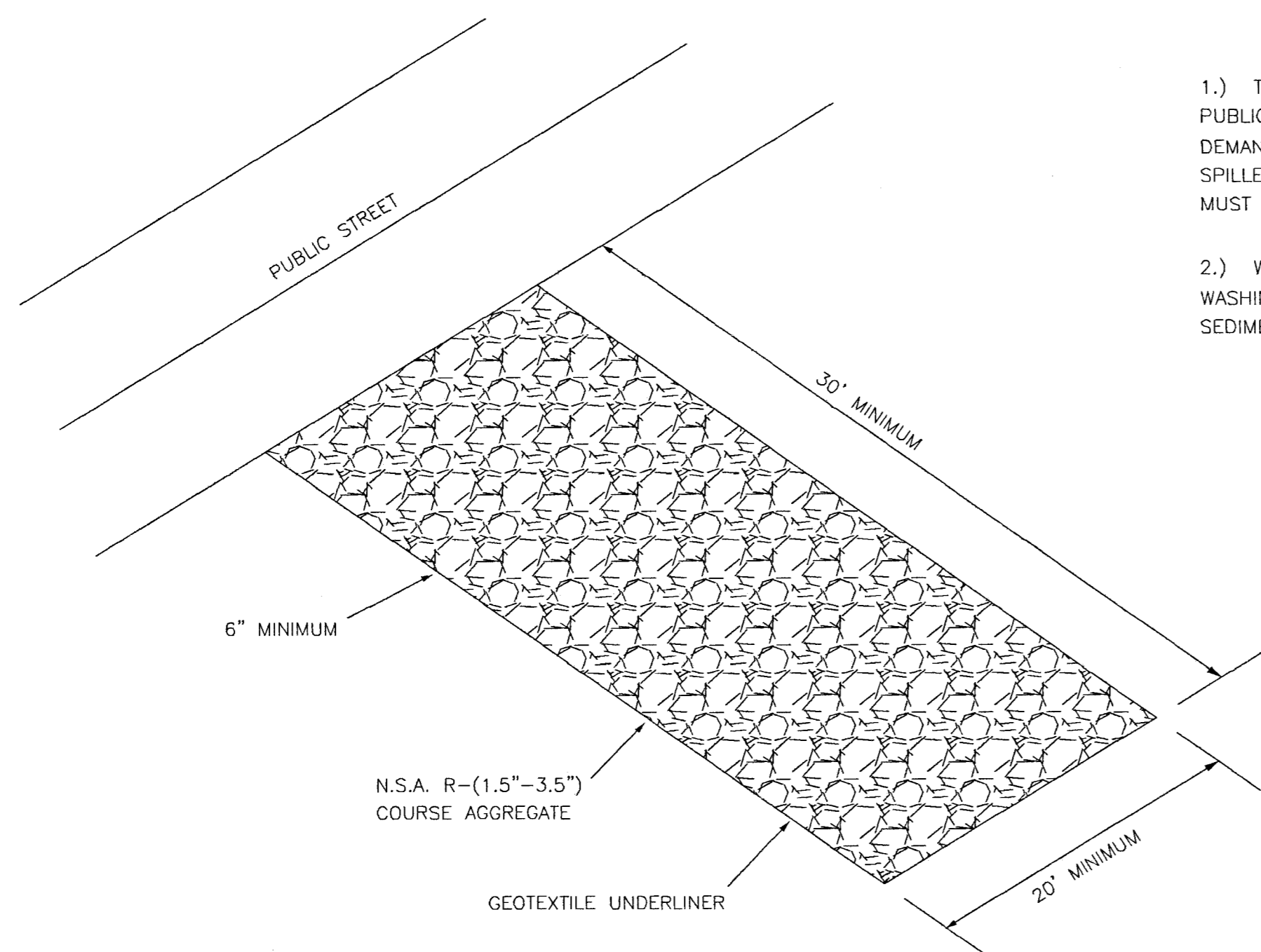
| | |
|--------------------------|-----------------|
| DRAWING NAME: | |
| DRAWN BY: | SCALE: As Shown |
| DATE OF DRAWING: 12/5/06 | PROJECT NO.: |
| CHECKED BY: | APPROVED BY: |

B BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

CLIENT: **DR. S.L. SETHI**
 1554 West Peace Street
 Canton, Mississippi

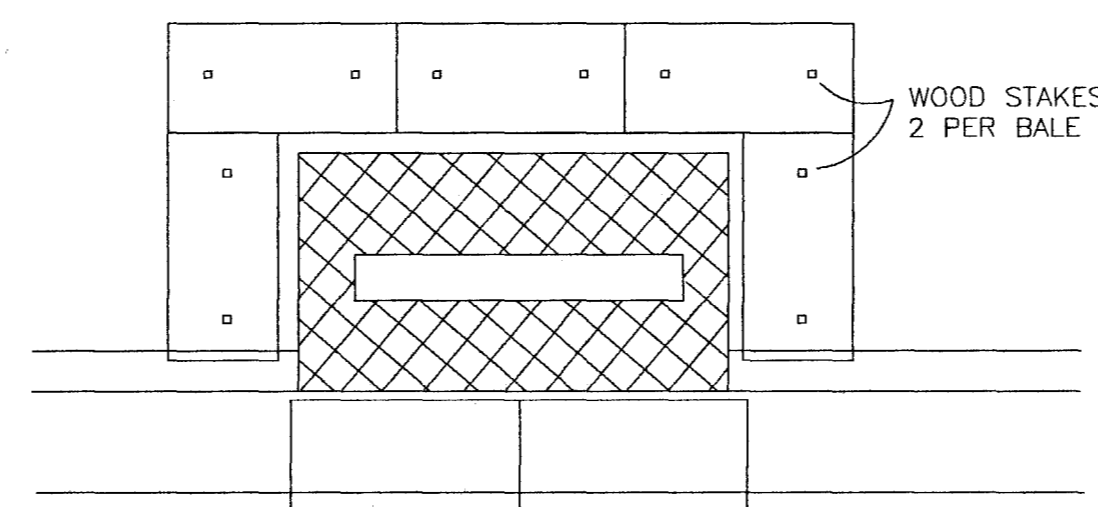
PROJECT: **TYPICAL STREET PAVEMENT MARKING DETAILS FOR:**
HARBOR CROSSING
CITY OF RIDGELAND, MISSISSIPPI

SHEET NO. **16**

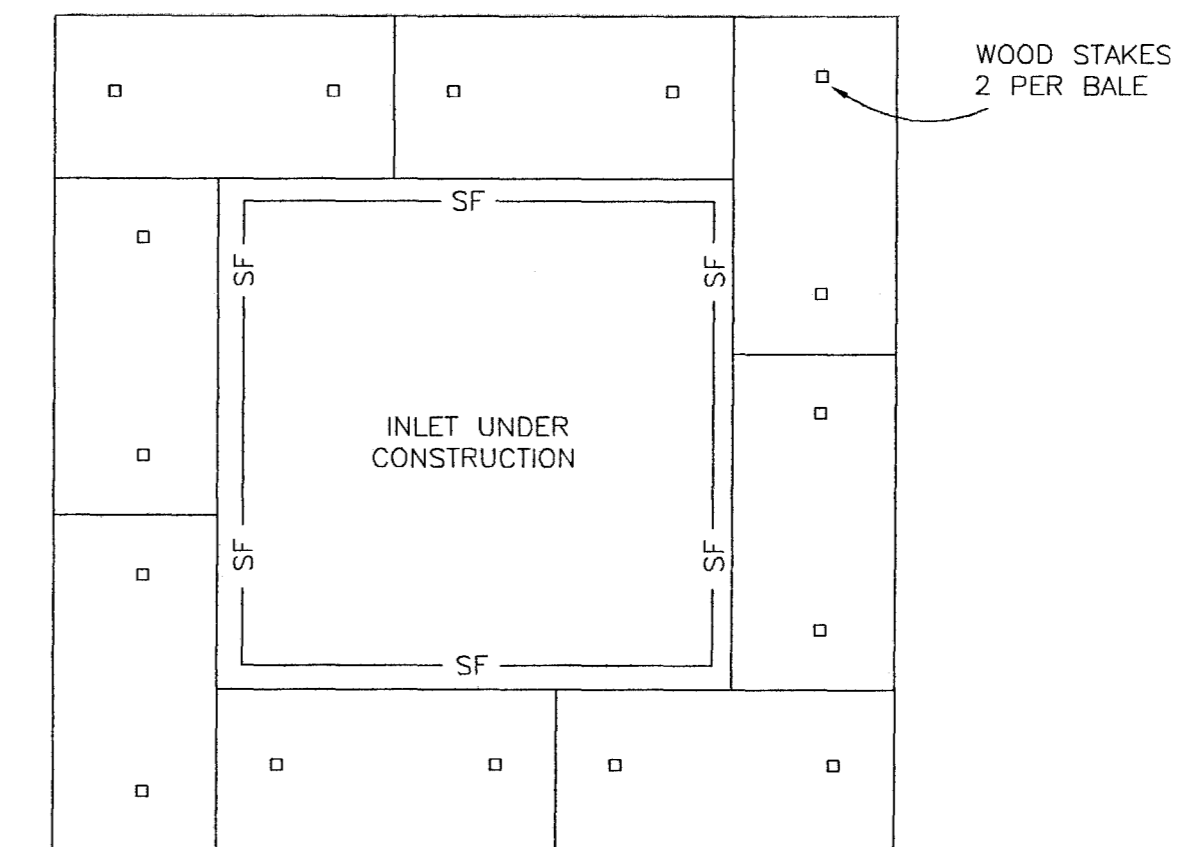


AGGREGATE PAD TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.

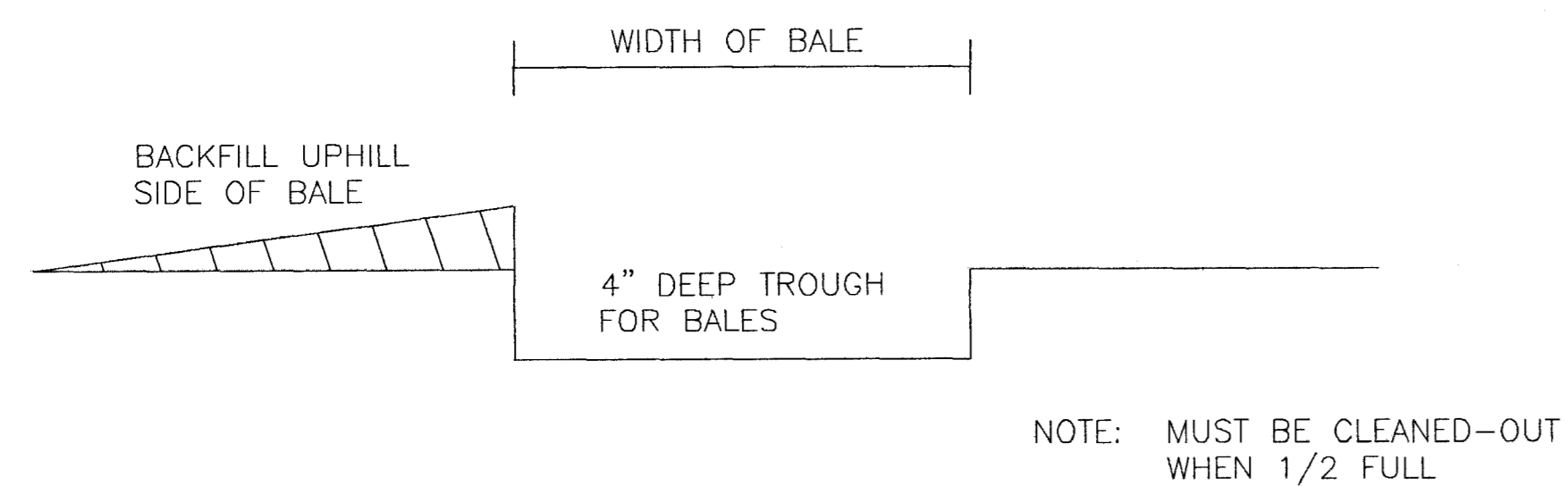
- 1.) THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 2.) WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



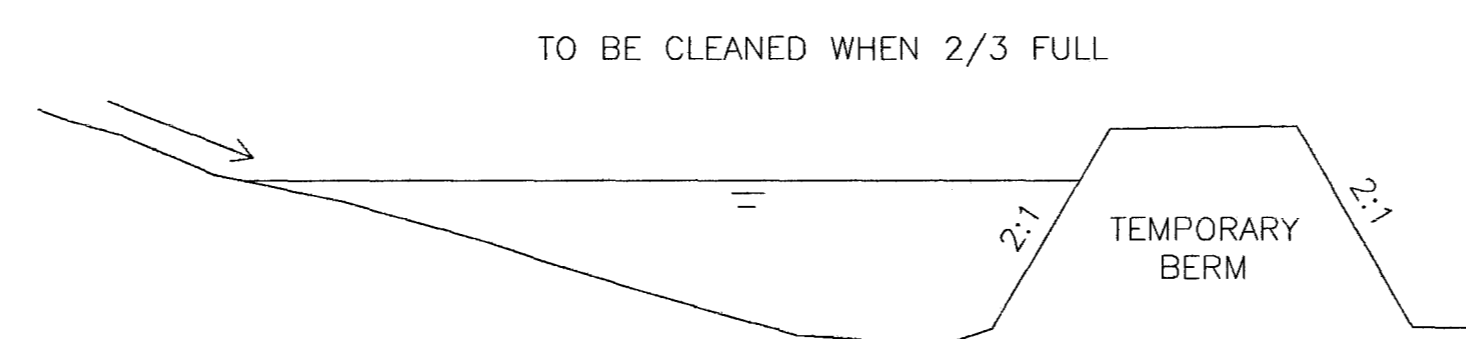
TEMPORARY CURB INLET PROTECTION (INLET COMPLETE)
N.T.S.



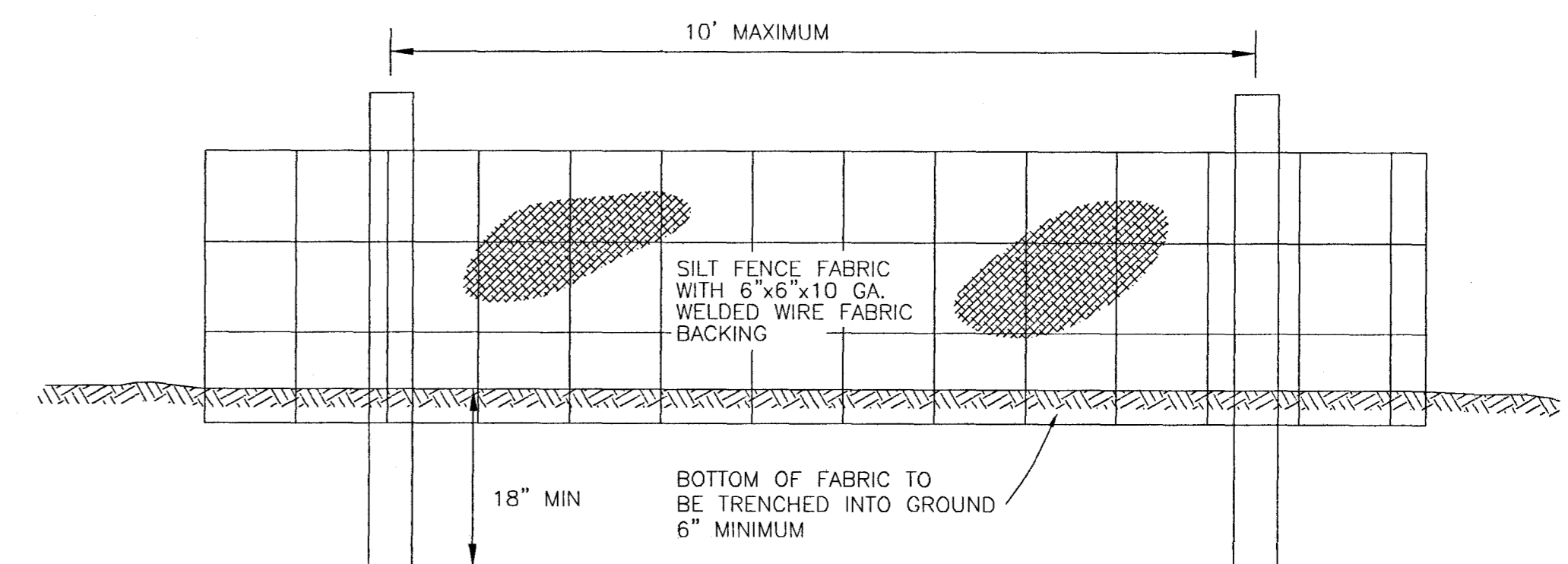
TEMPORARY CURB INLET PROTECTION (INLET UNDER CONSTRUCTION)
N.T.S.



TEMPORARY EROSION CHECKS
N.T.S.



TEMPORARY SEDIMENT BASIN
N.T.S.



TEMPORARY SILT FENCE
N.T.S.

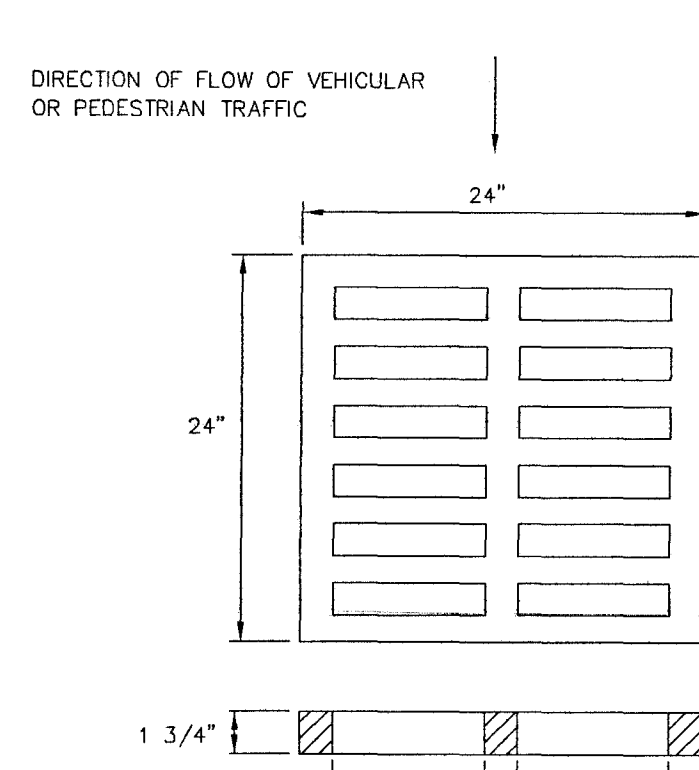
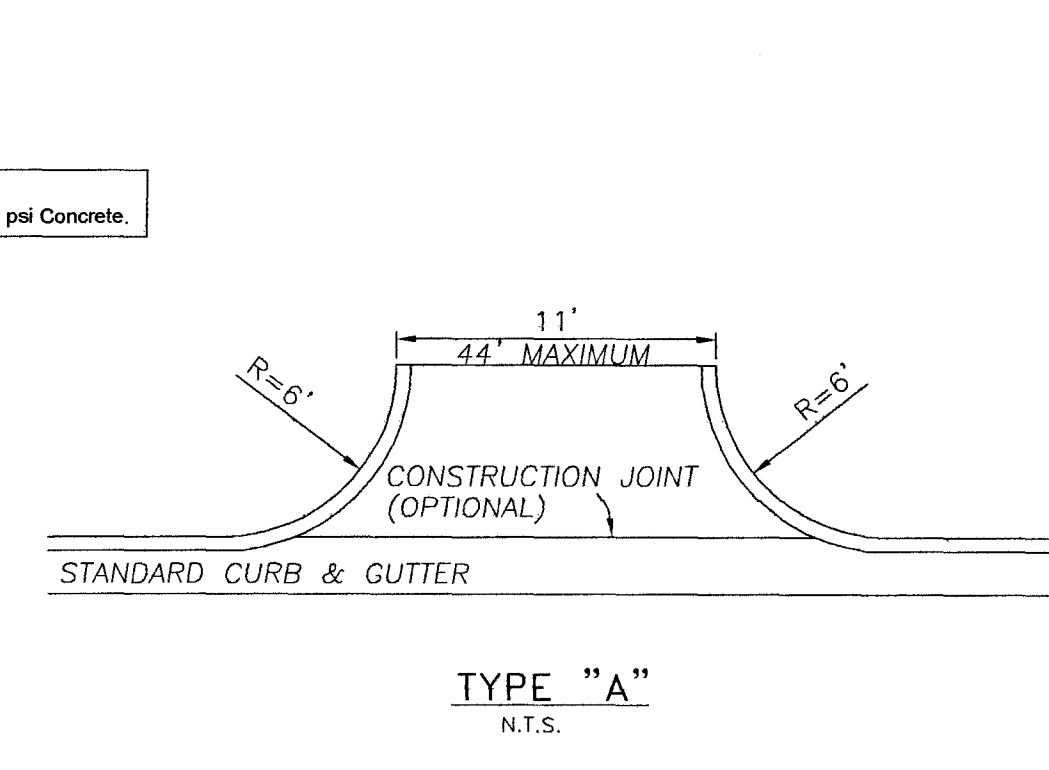
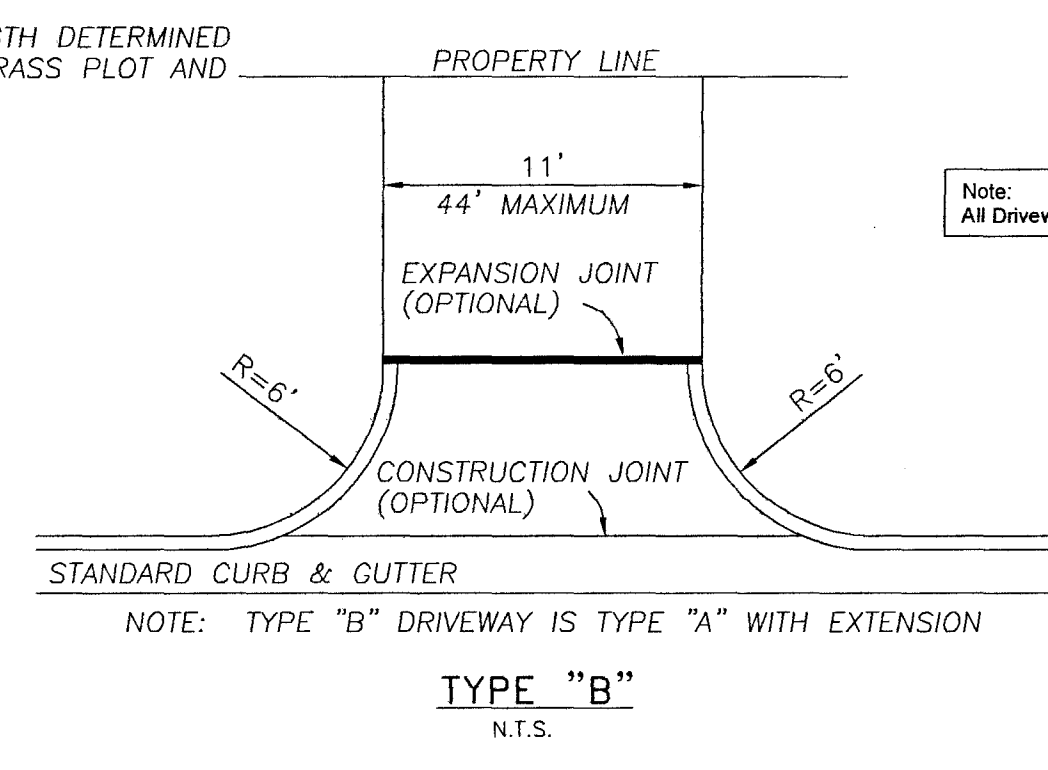
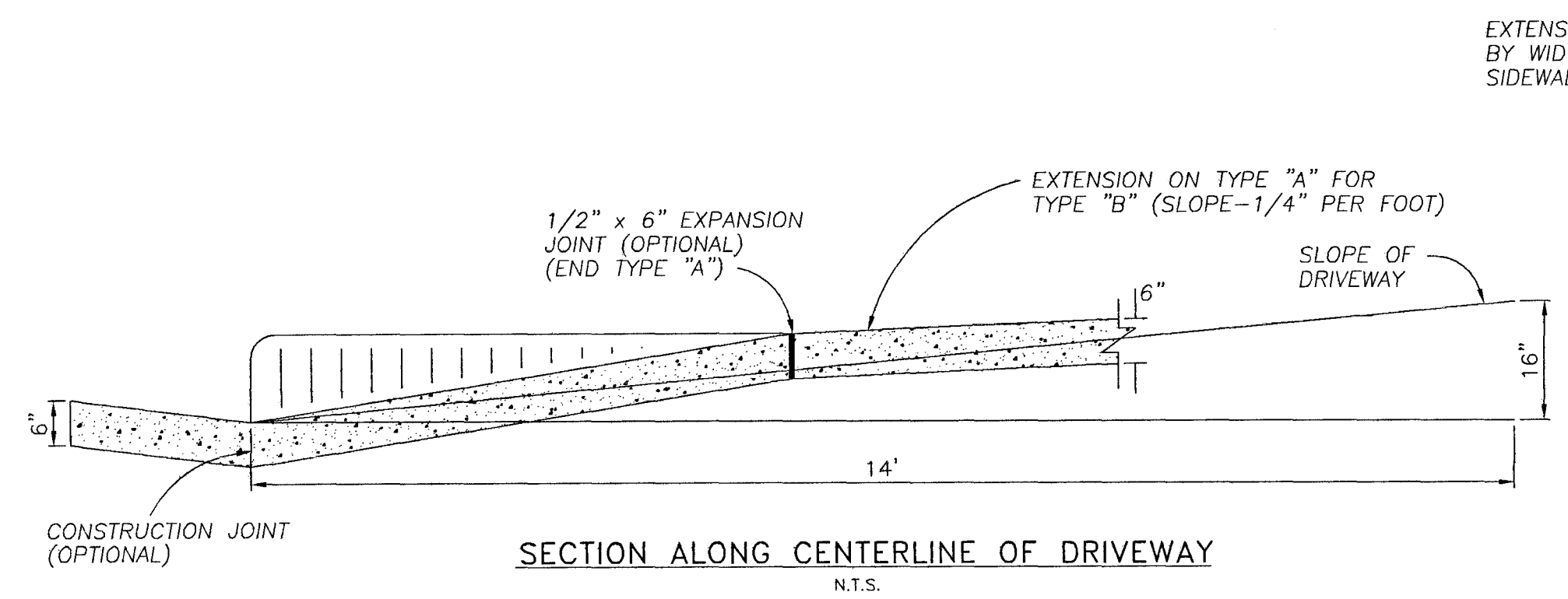
| DATE | REVISION |
|------|----------|
| | |
| | |
| | |
| | |

DRAWING NAME: _____
 DRAWN BY: _____ SCALE: Not to Scale
 DATE OF DRAWING: _____ PROJECT NO.: _____
 CHECKED BY: _____ APPROVED BY: _____

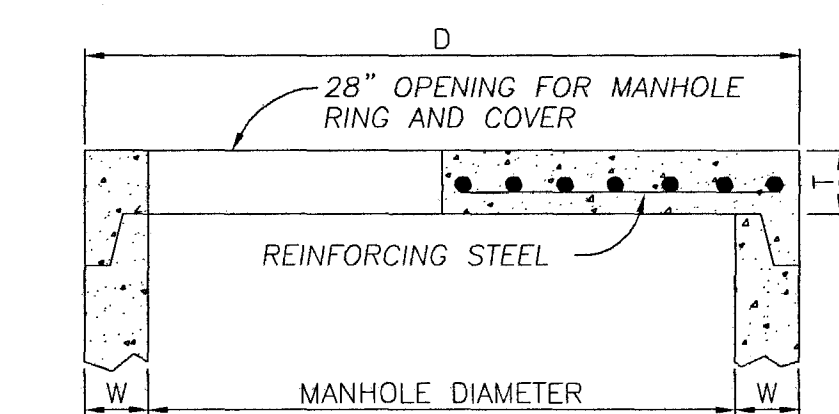
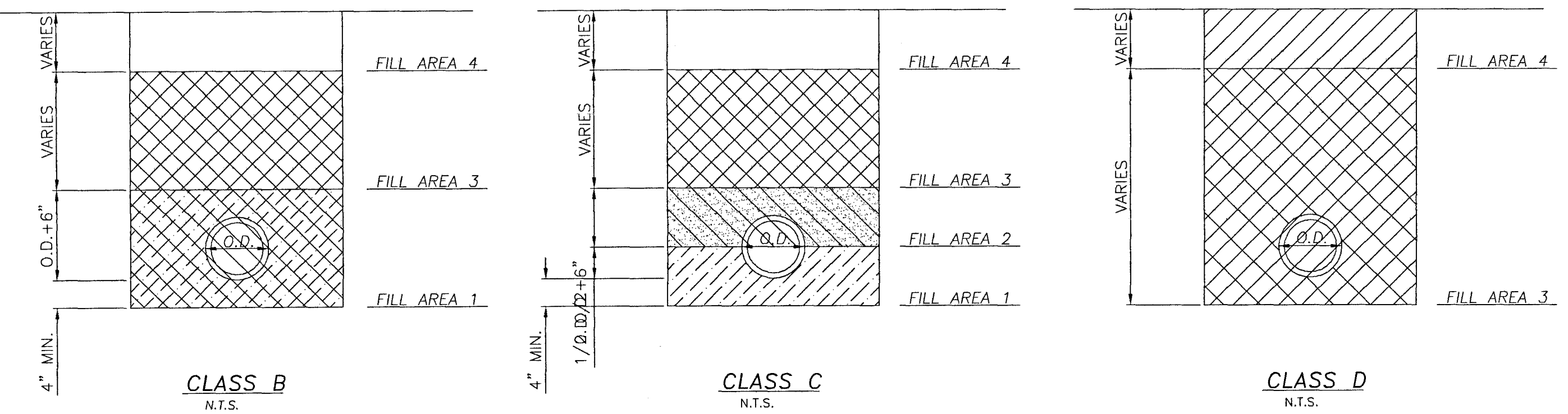
B **BANKS ENGINEERING & SURVEYING, INC.**
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

CLIENT: **S.L. Sethi**
 1554 West Peace Street
 Canton, Mississippi

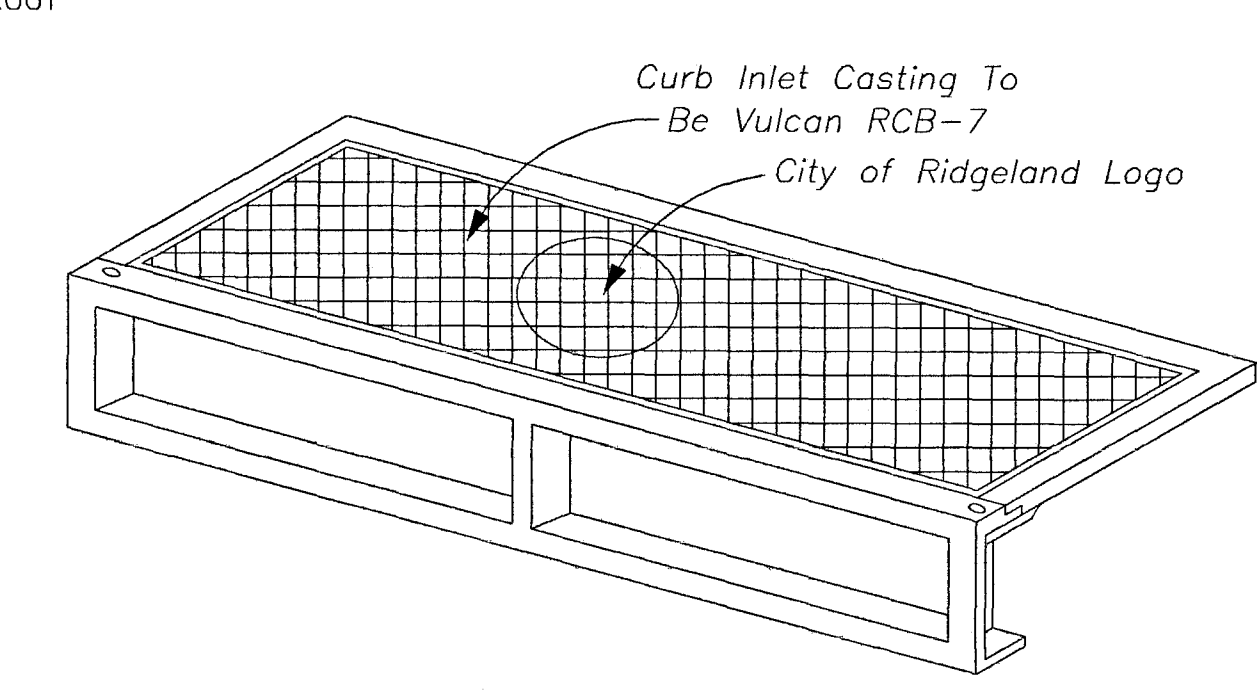
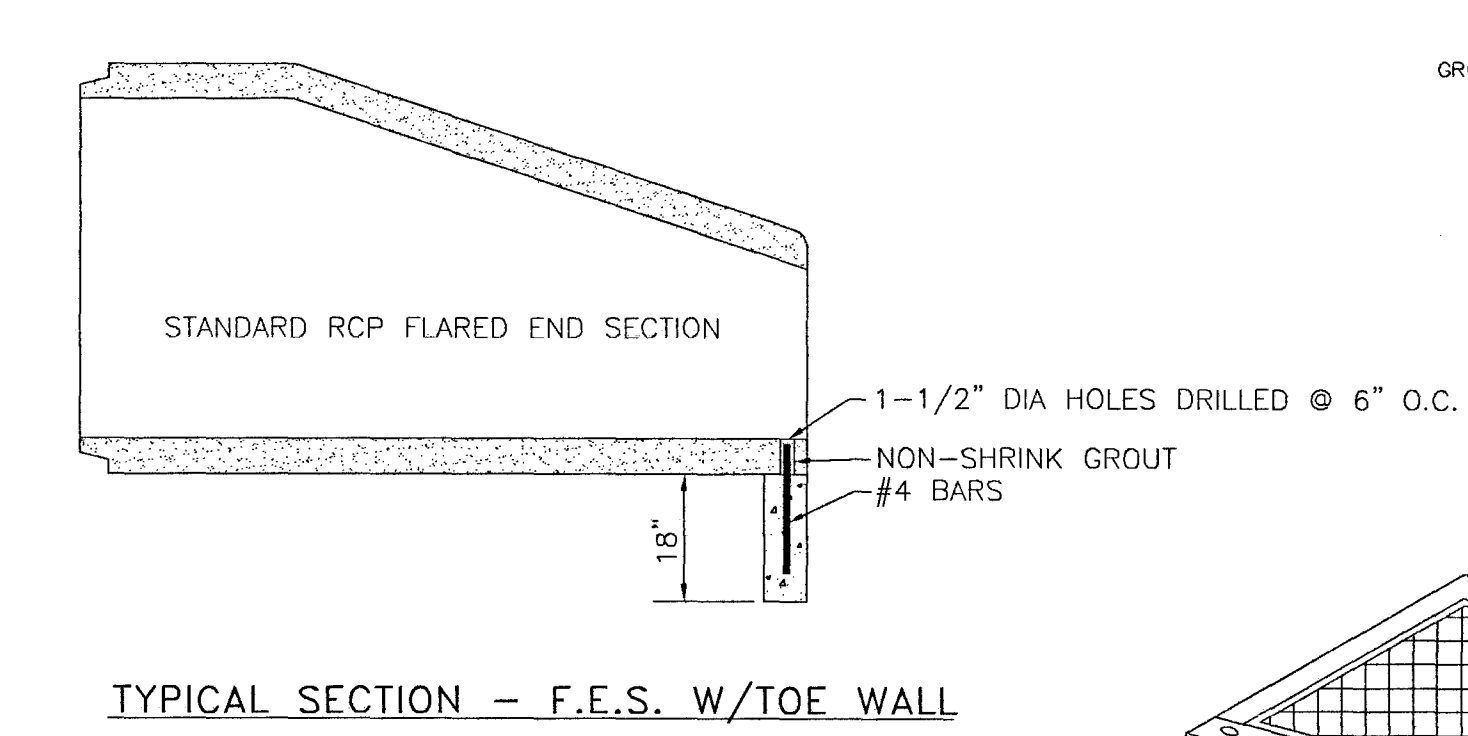
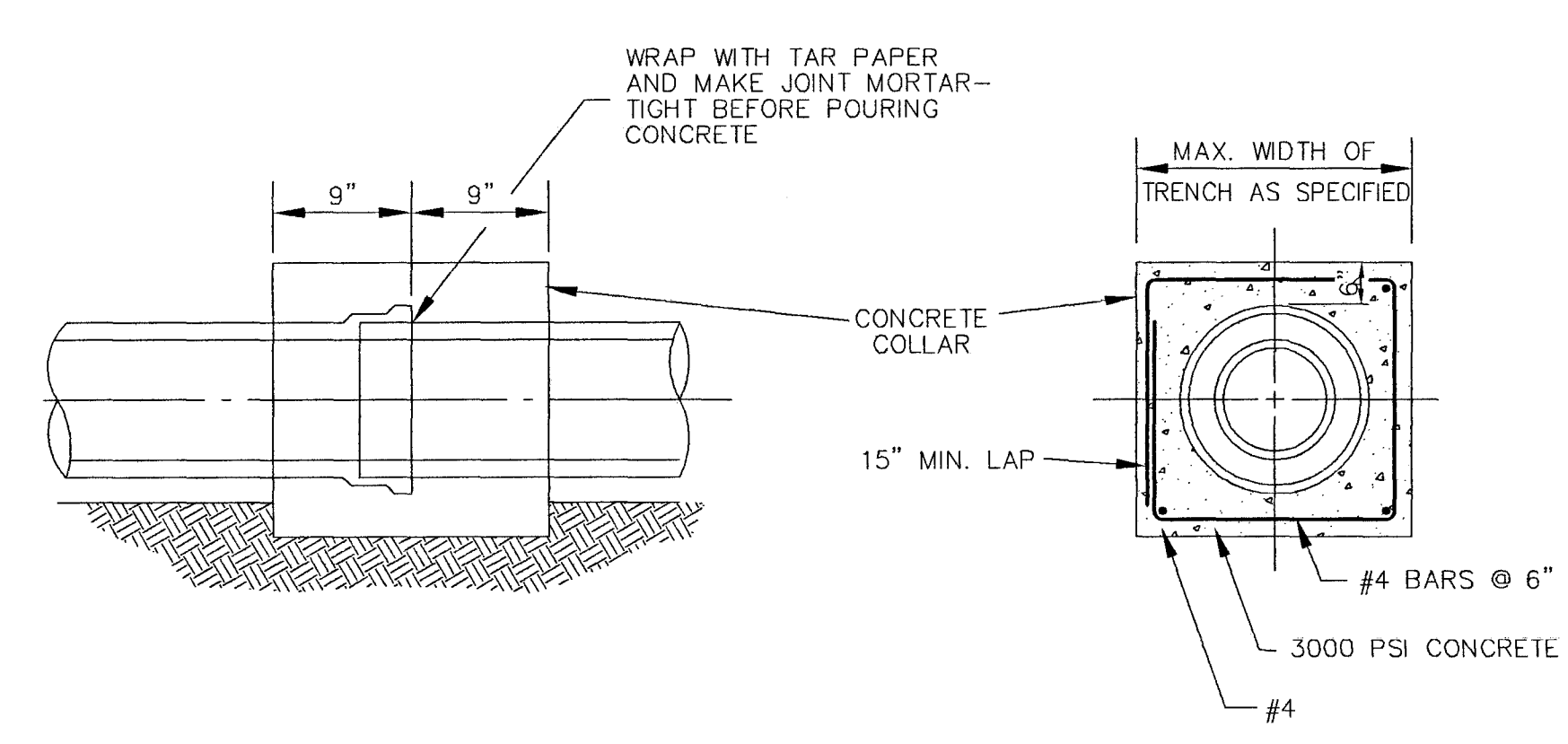
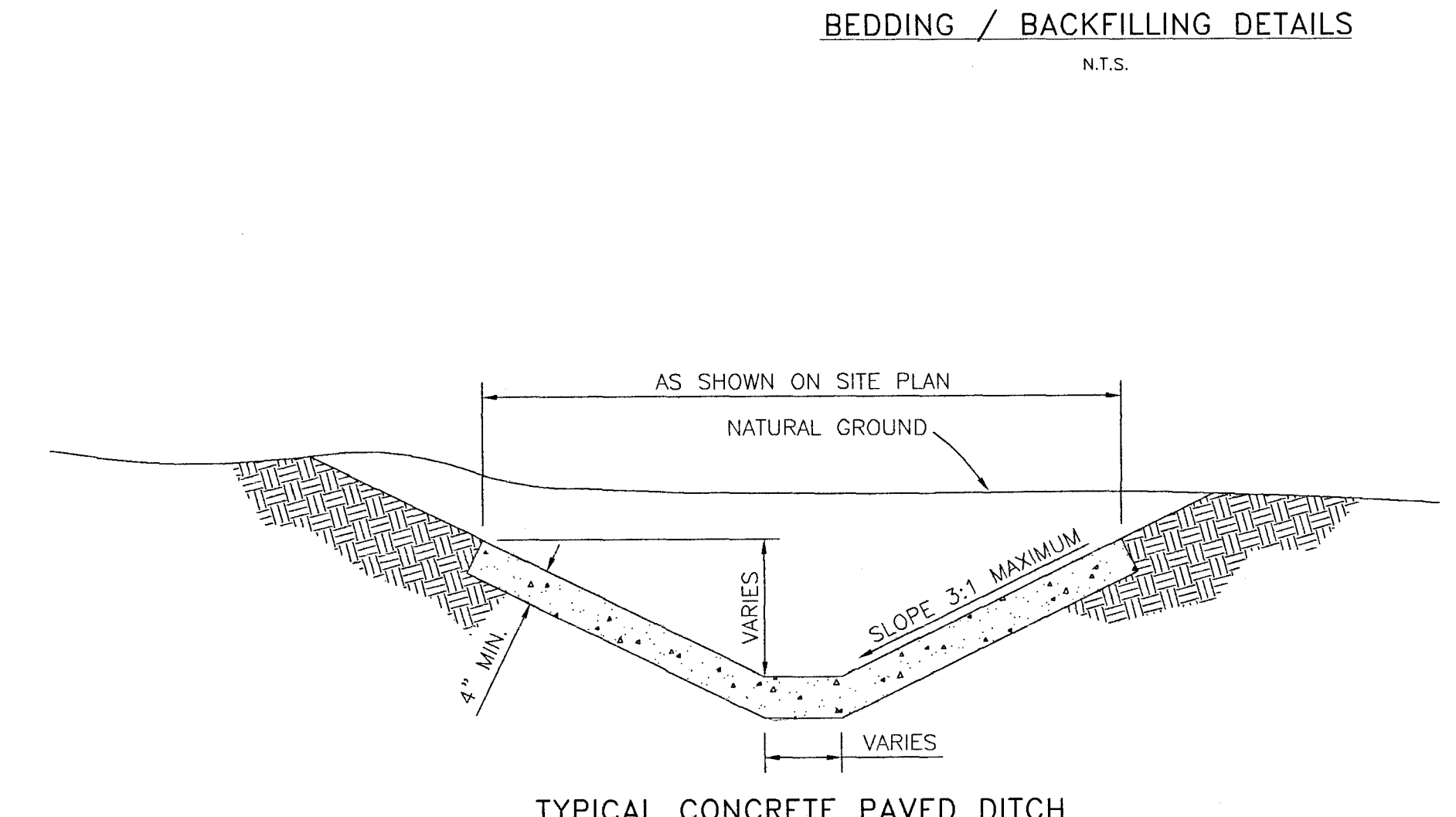
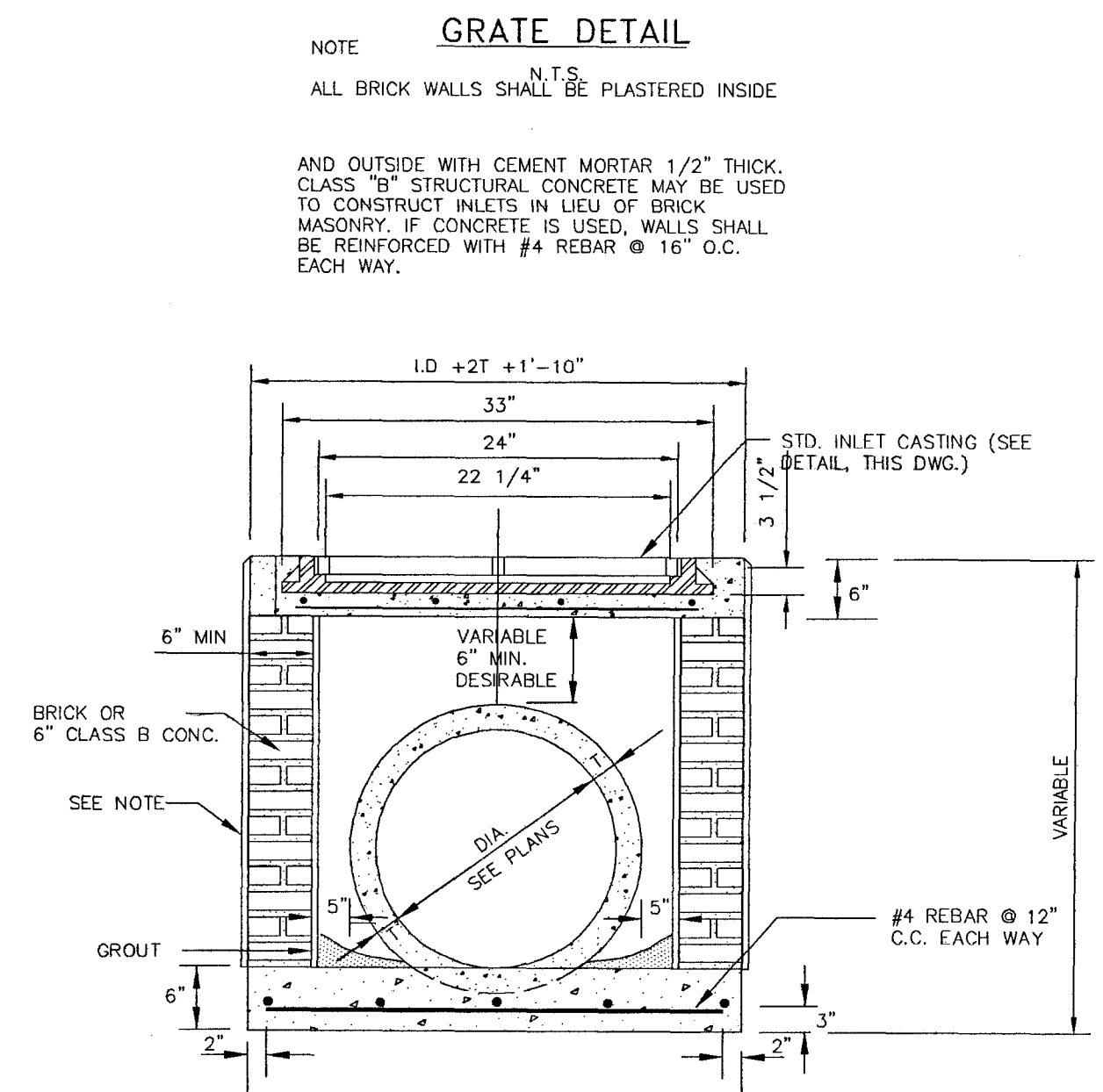
PROJECT: **EROSION CONTROL DETAILS FOR
 HARBOR CROSSING
 CITY OF RIDGELAND, MISSISSIPPI**



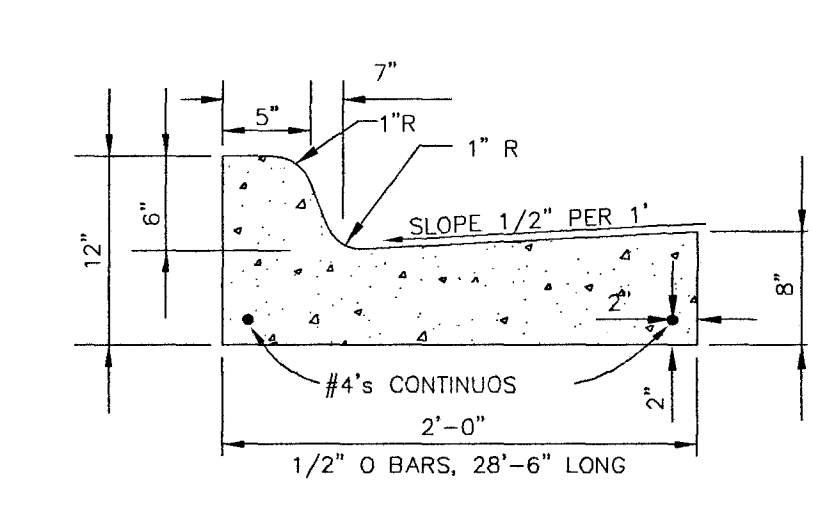
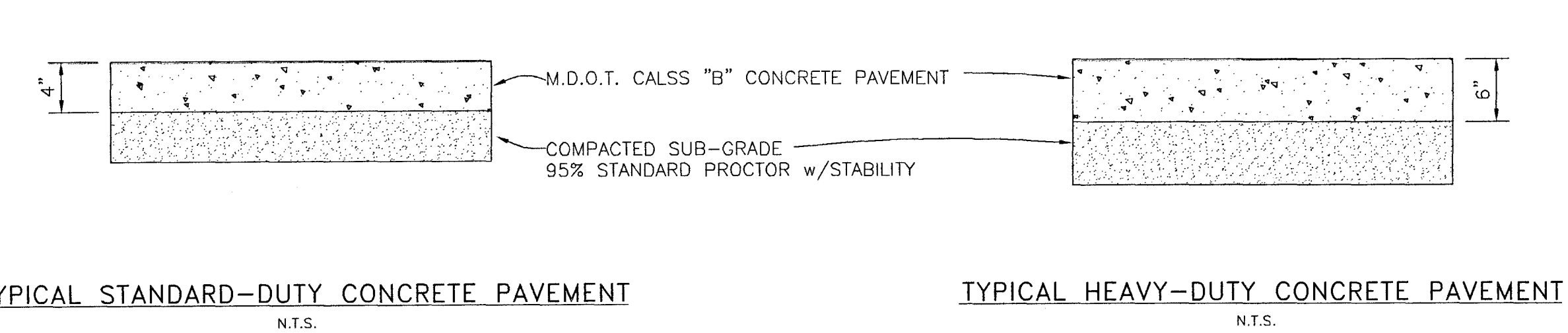
FILL AREA 1 (all locations) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.
 FILL AREA 2 (all locations) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.
 FILL AREA 3 (select locations) - 12" MAXIMUM LOOSE LIFTS, MECHANICALLY TAMPED TO 95% DENSITY.
 FILL AREA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



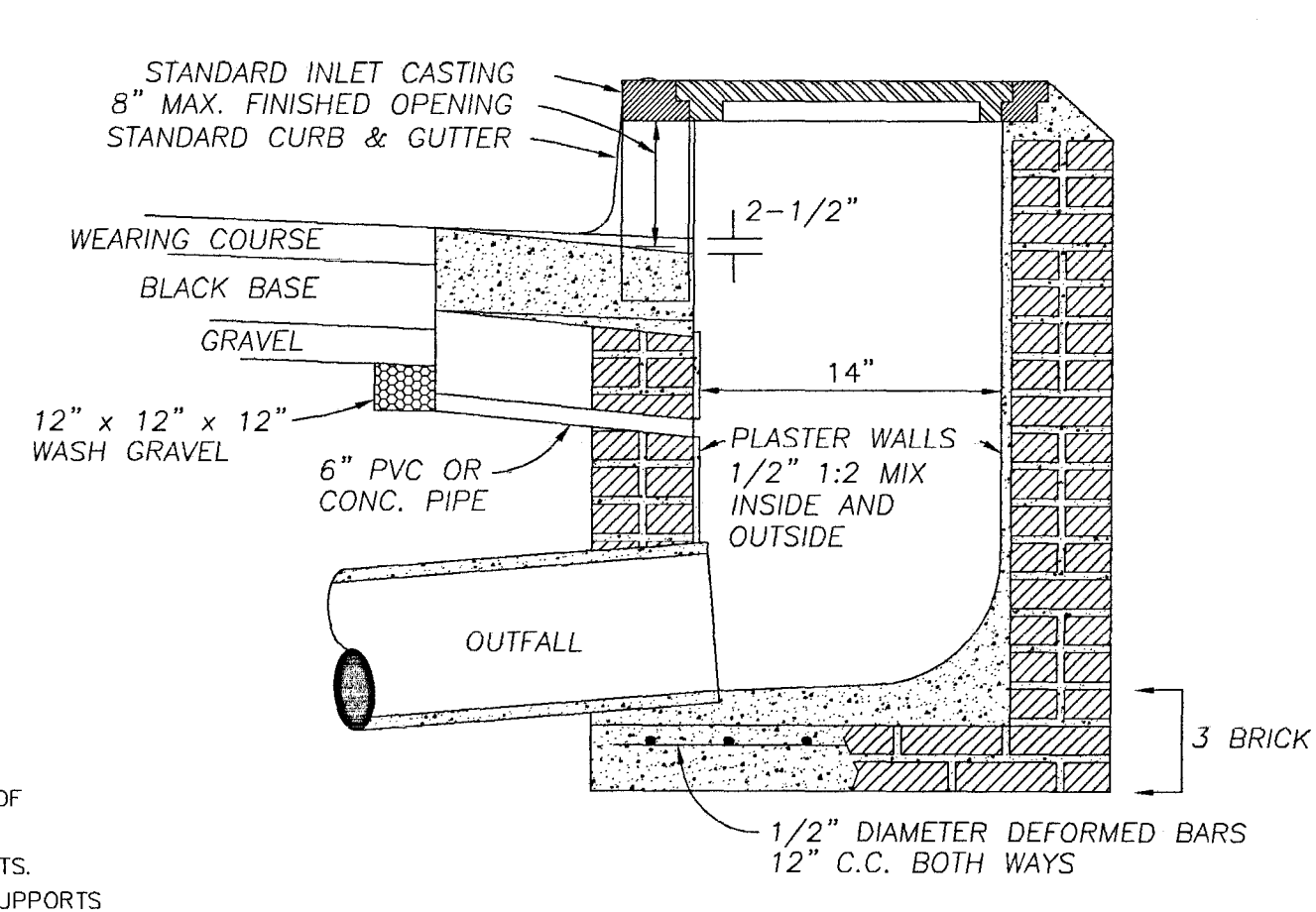
| PIPE DIAMETER | W | D | T |
|---------------|-----|------|----|
| 48" | 5" | 58" | 6" |
| 60" | 6" | 72" | 8" |
| 72" | 7" | 86" | 8" |
| 84" | 8" | 100" | 8" |
| 96" | 9" | 114" | 8" |
| 108" | 10" | 128" | 8" |



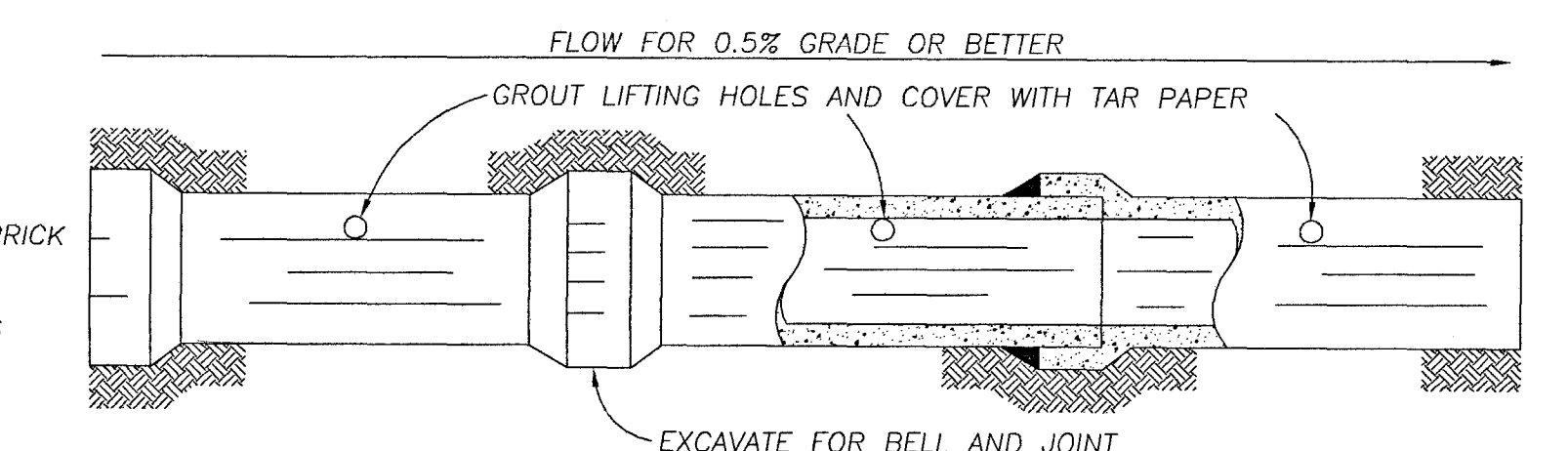
NOTES:
 1. 1/4" Contraction Joints required @ 15' c.c.
 2. All Concrete Ditches Or Swales To Be Constructed Of 1:2:4 Mix Concrete w/Fiberglass Reinforcement.



NOTES:
 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 LB. CONCRETE.
 2. 2-3/4" 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.



NOTES:
 1. DEPTH OF INLET IS VARIABLE.
 2. SOIL DRAIN COST IS TO BE INCLUDED IN THE CONSTRUCTION OF THE INLET.



NOTE: ALL STORM SEWER JOINTS TO BE WIPED WITH 1:2 MIX CEMENT.

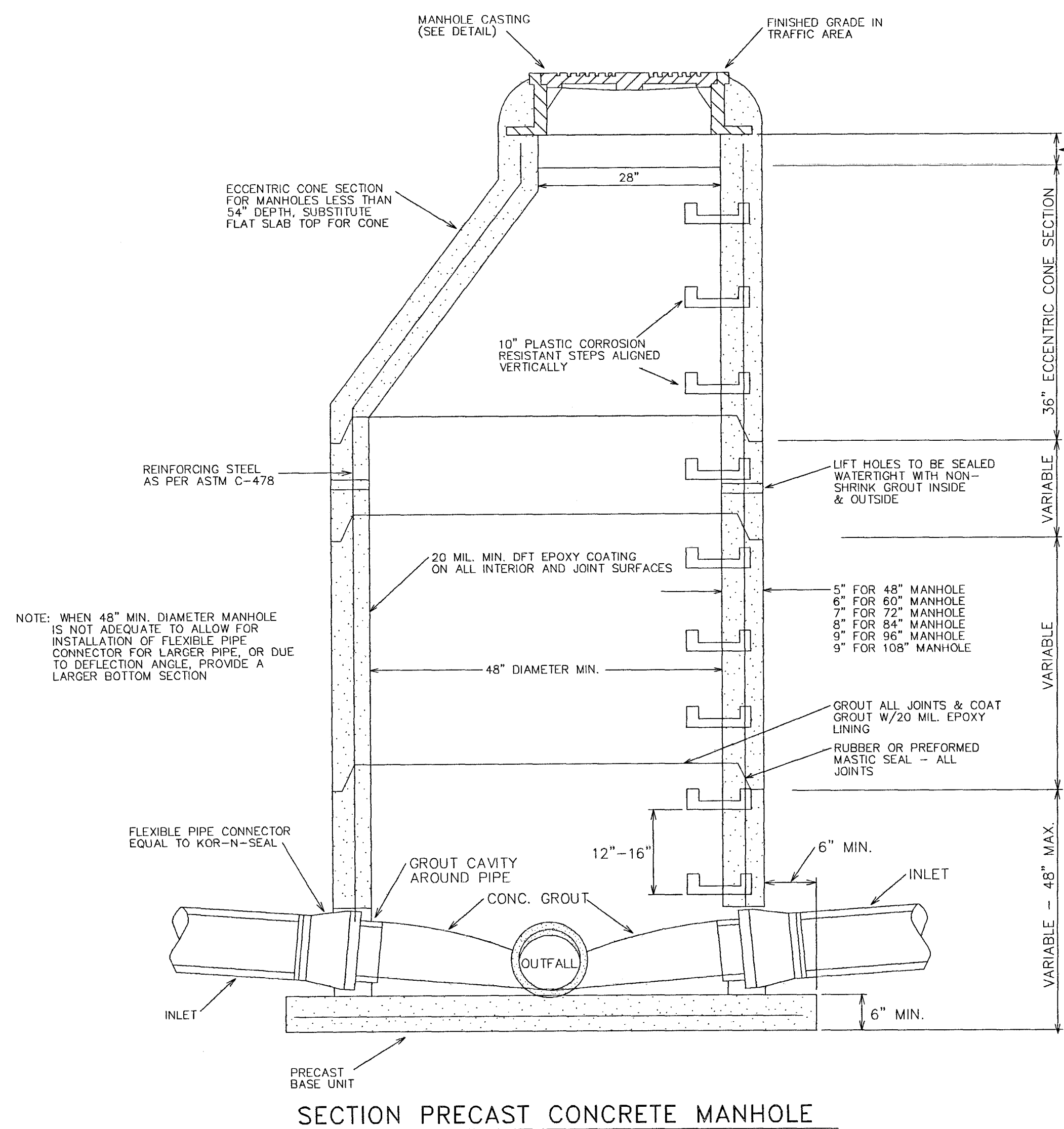
| DATE | REVISION |
|------|----------|
| | |
| | |
| | |

DRAWING NAME: _____
 DRAWN BY: _____ SCALE: As Shown
 DATE OF DRAWING: _____ PROJECT NO.: _____
 CHECKED BY: _____ APPROVED BY: _____

B BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

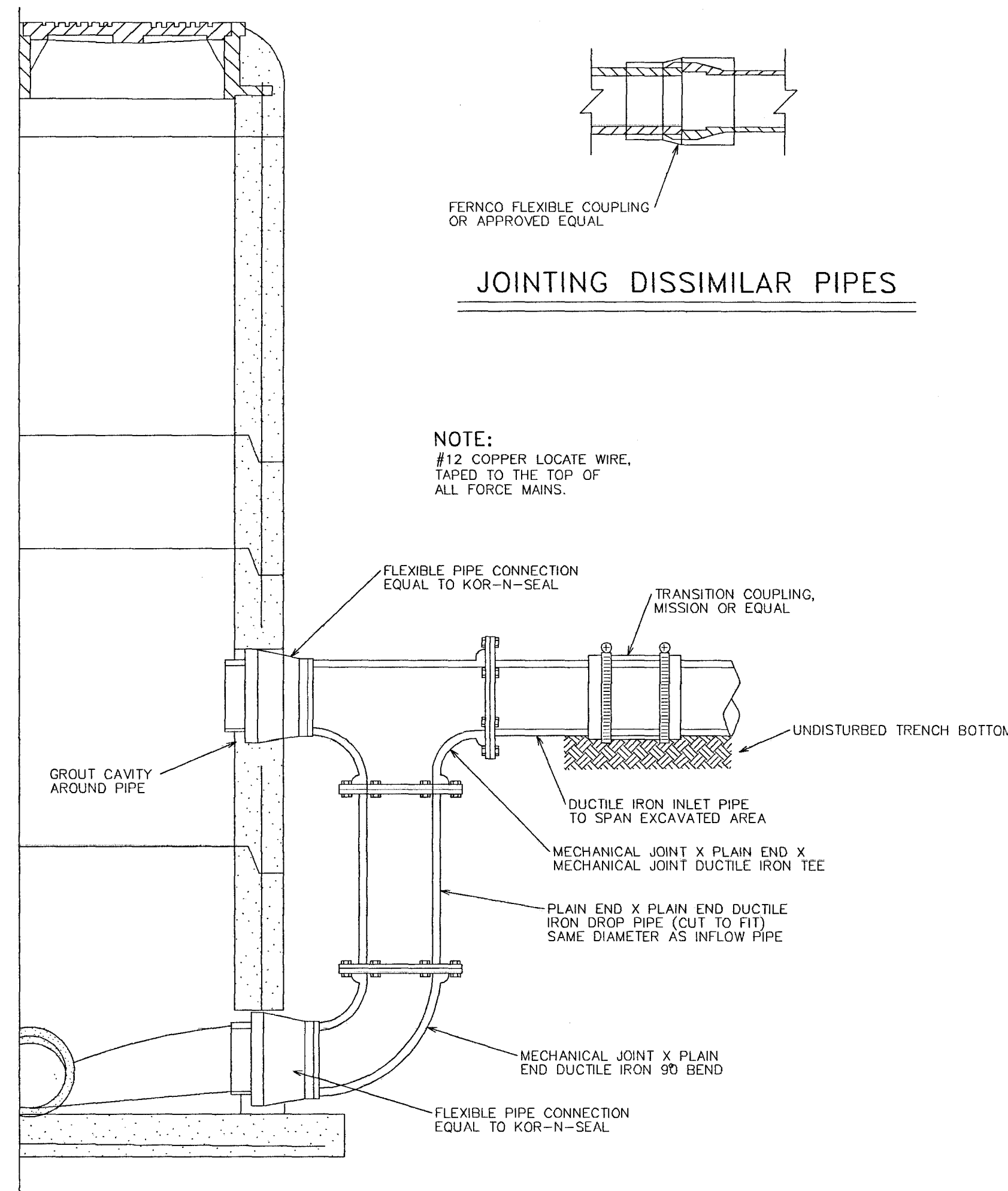
CLIENT: **S.L. Sethi**
 1554 West Peace Street
 Canton, Mississippi

PROJECT: MISCELLANEOUS DETAILS FOR
 HARBOR CROSSING
 CITY OF RIDGELAND, MISSISSIPPI



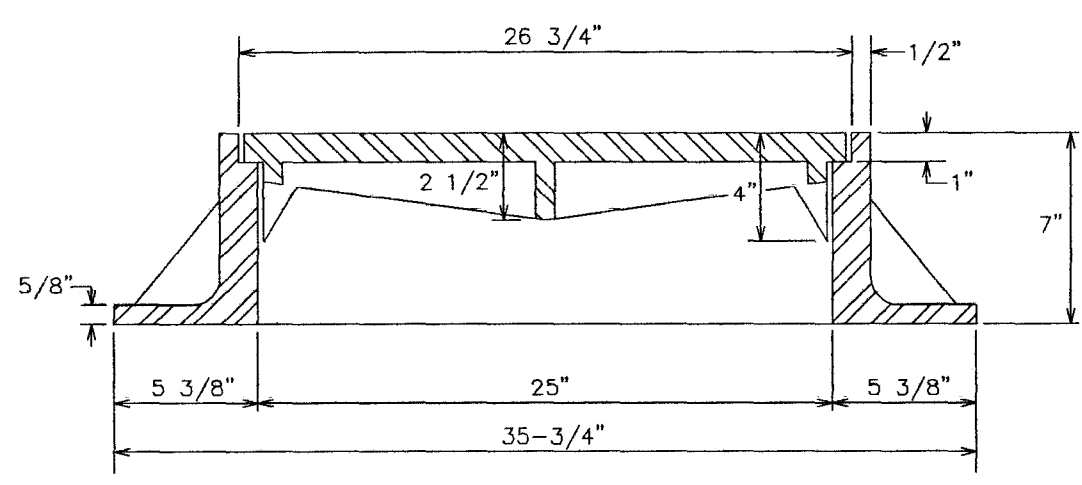
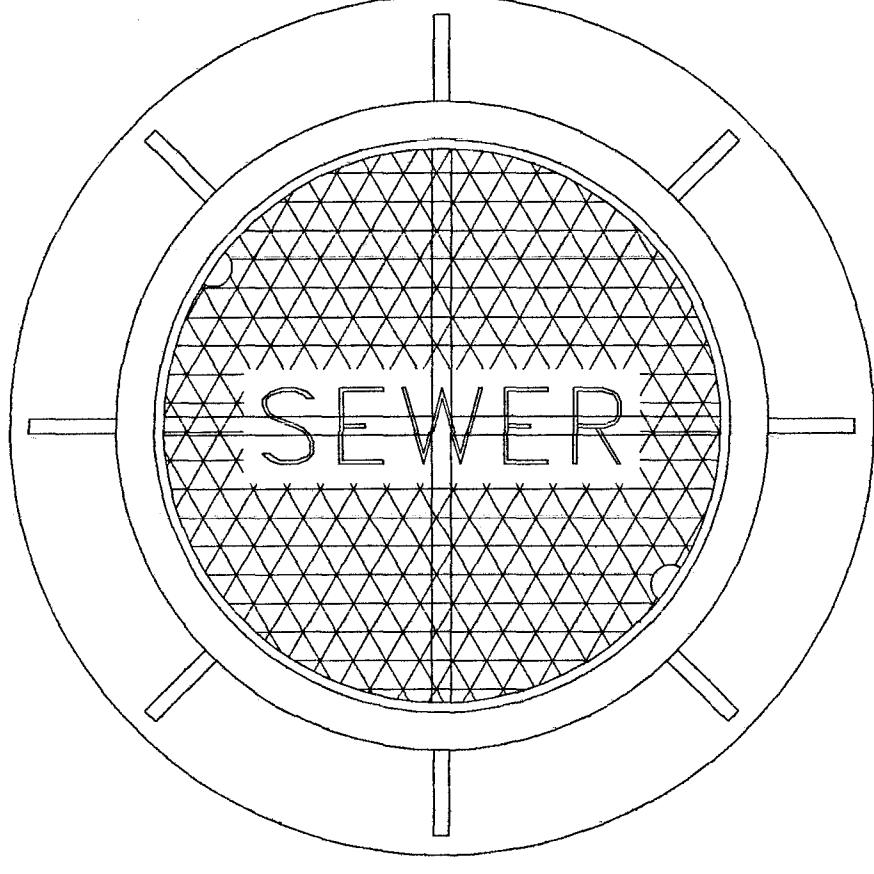
SECTION PRECAST CONCRETE MANHOLE

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 BOTTOM SECTION

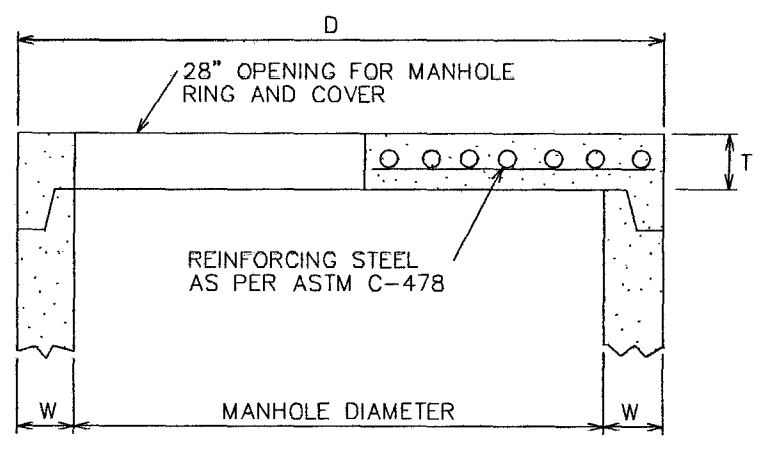


SECTION PRECAST CONCRETE MANHOLE WITH DROP CONNECTION

NOTE: MANHOLE RING & COVER TO BE HEAVY DUTY DEWS FOUNDRY DF - 25(7) OR APPROVED EQUAL.

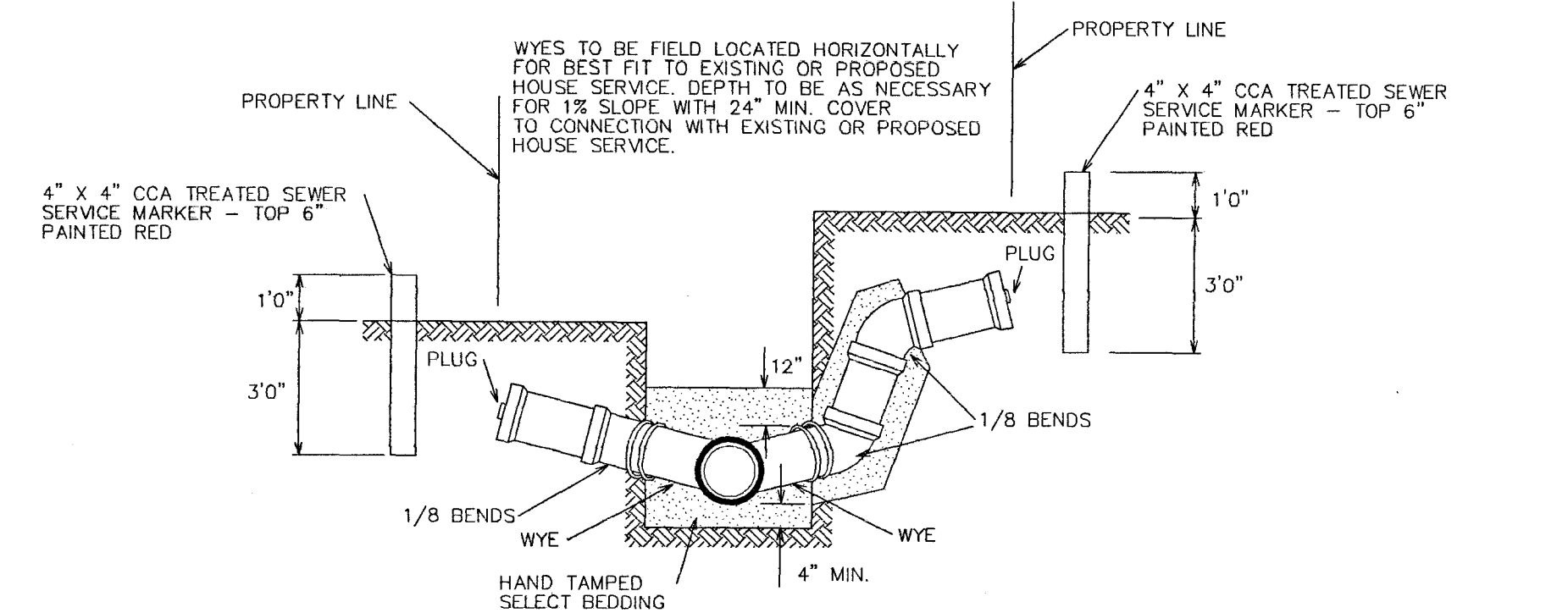


MANHOLE CASTING DETAILS



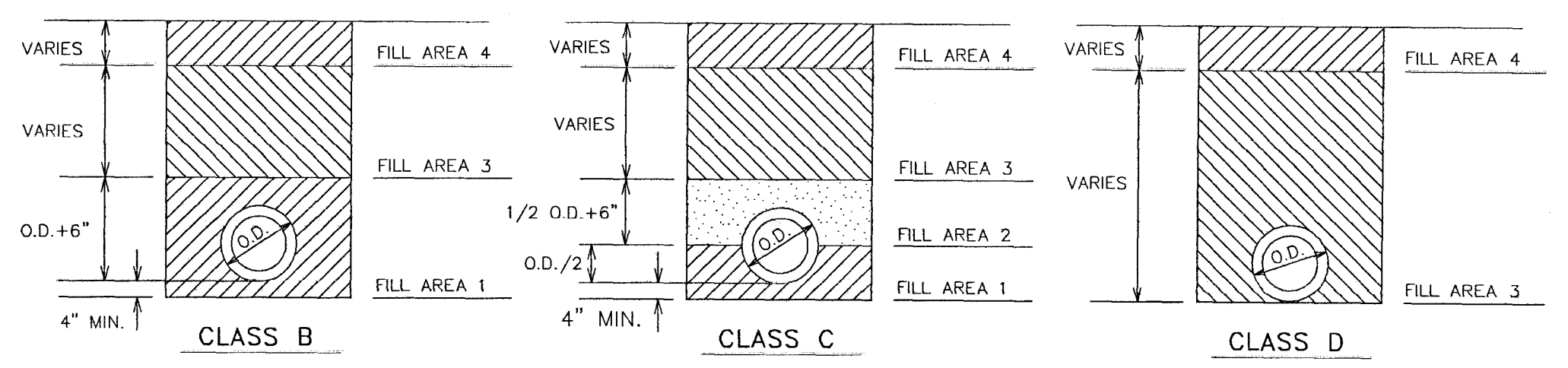
| PIPE DIAMETER | W | D | T |
|---------------|-----|------|----|
| 48" | 3" | 58" | 6" |
| 60" | 6" | 72" | 8" |
| 72" | 7" | 86" | 8" |
| 84" | 8" | 100" | 8" |
| 96" | 9" | 114" | 8" |
| 108" | 10" | 128" | 8" |

FLAT SLAB MANHOLE TOP

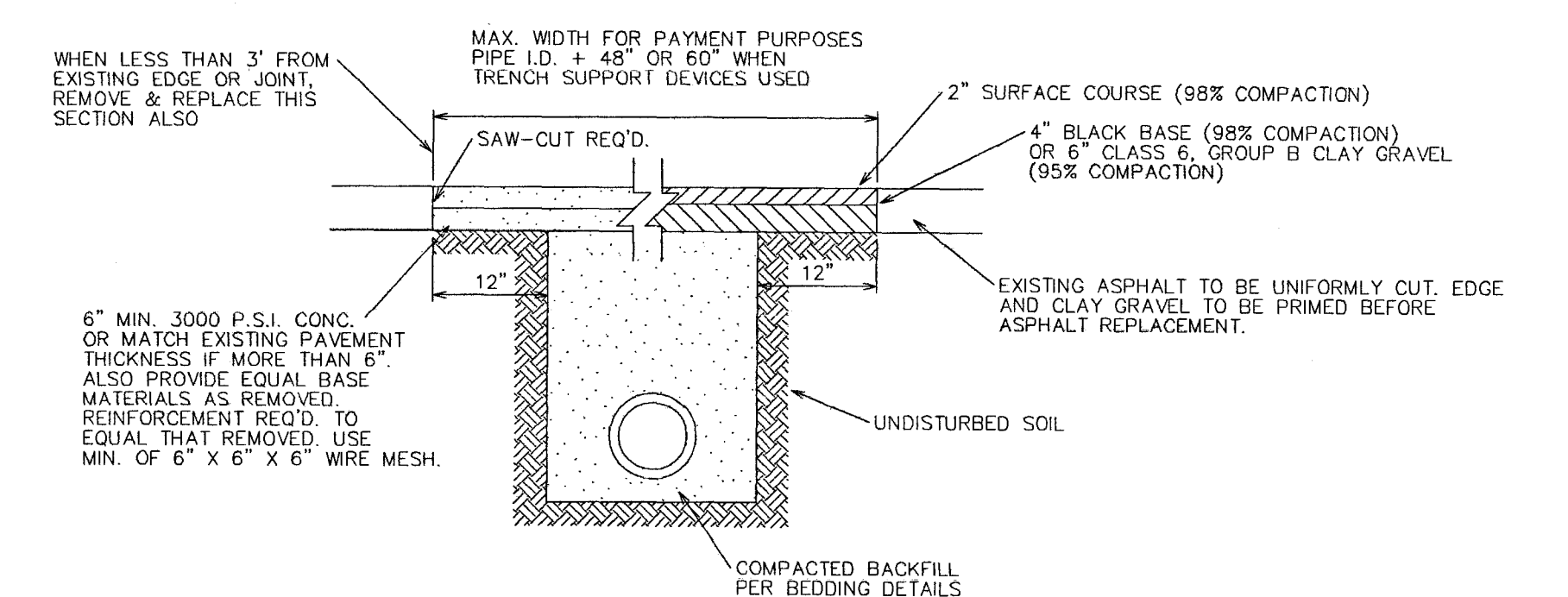


TYPICAL SERVICE CONNECTIONS

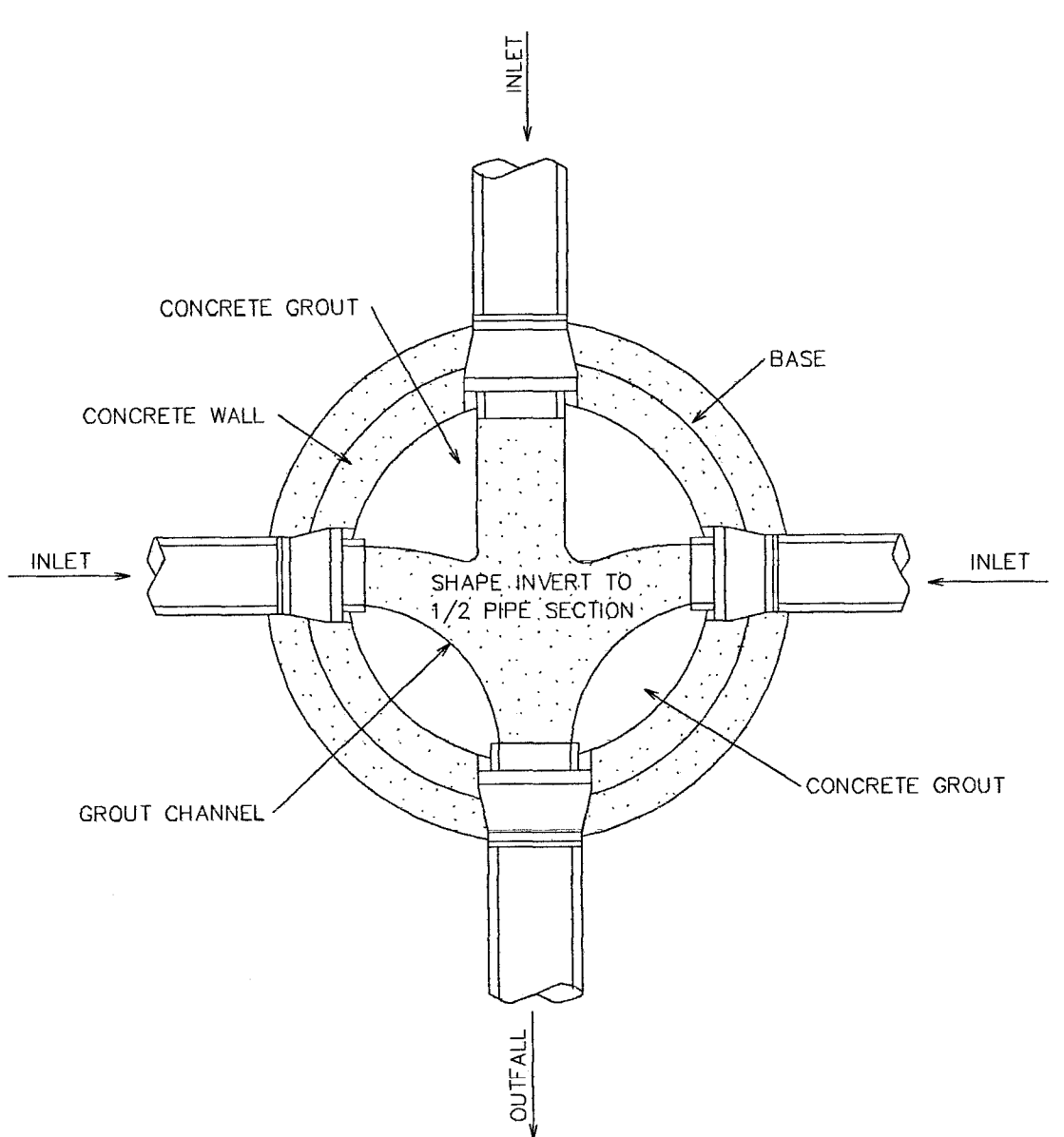
FILL AREA 1 (all locations) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.
 FILL AREA 2 (all locations) - 6" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.
 FILL AREA 3 (all locations) - 12" MAXIMUM LOOSE LIFTS, HAND OR MECHANICALLY TAMPED TO 95% DENSITY.
 FILL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



BEDDING / BACKFILL DETAILS

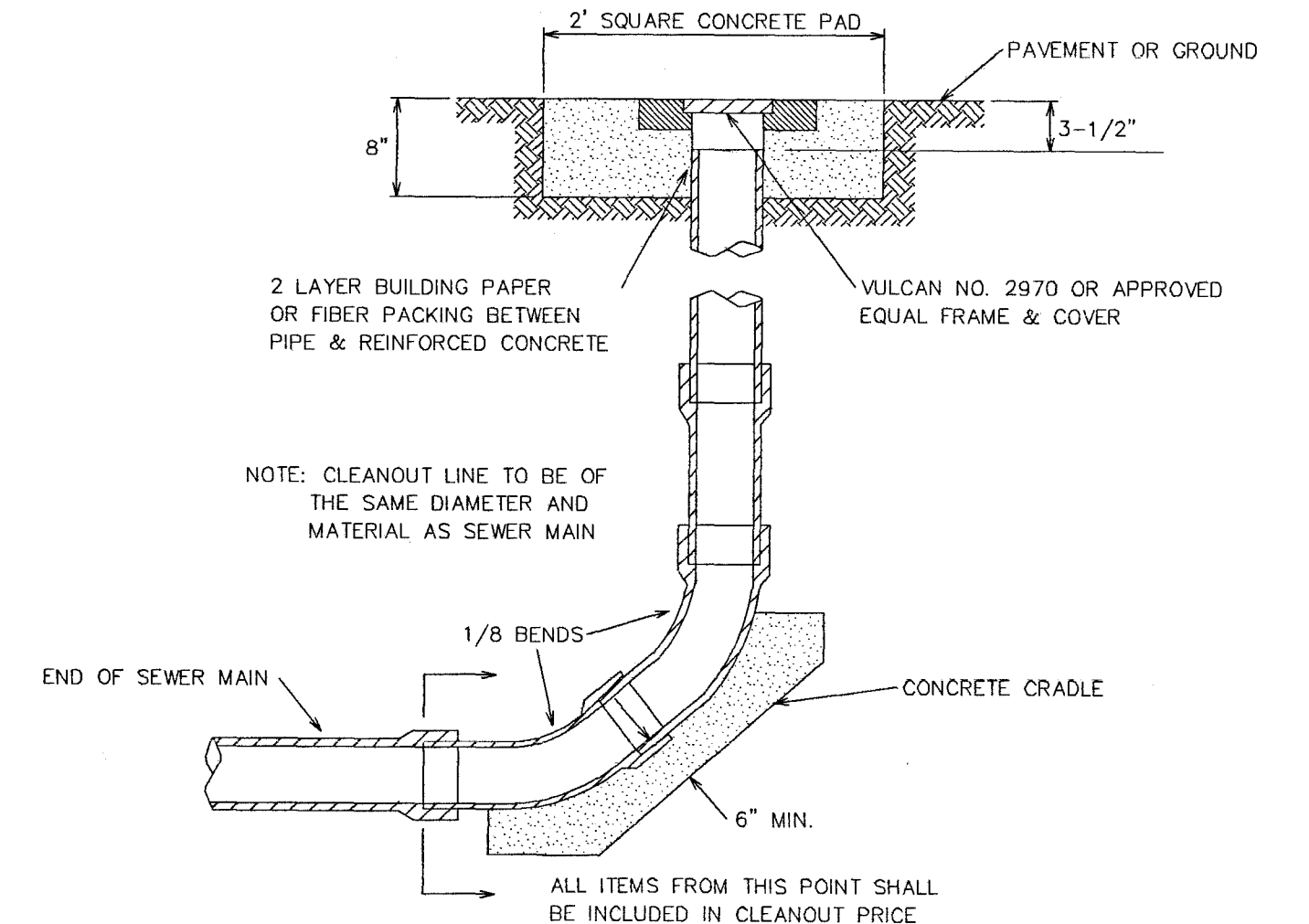


REMOVAL & REPLACEMENT OF EXISTING PAVEMENT



MANHOLE FLOW CHANNELS DETAIL

NOTE: CONCRETE GROUT INVERT SURFACES TO HAVE UNIFORM SMOOTH OR BRUSHED FINISH.



TERMINAL CLEANOUT

NOTE: CLEANOUT LINE TO BE OF THE SAME DIAMETER AND MATERIAL AS SEWER MAIN

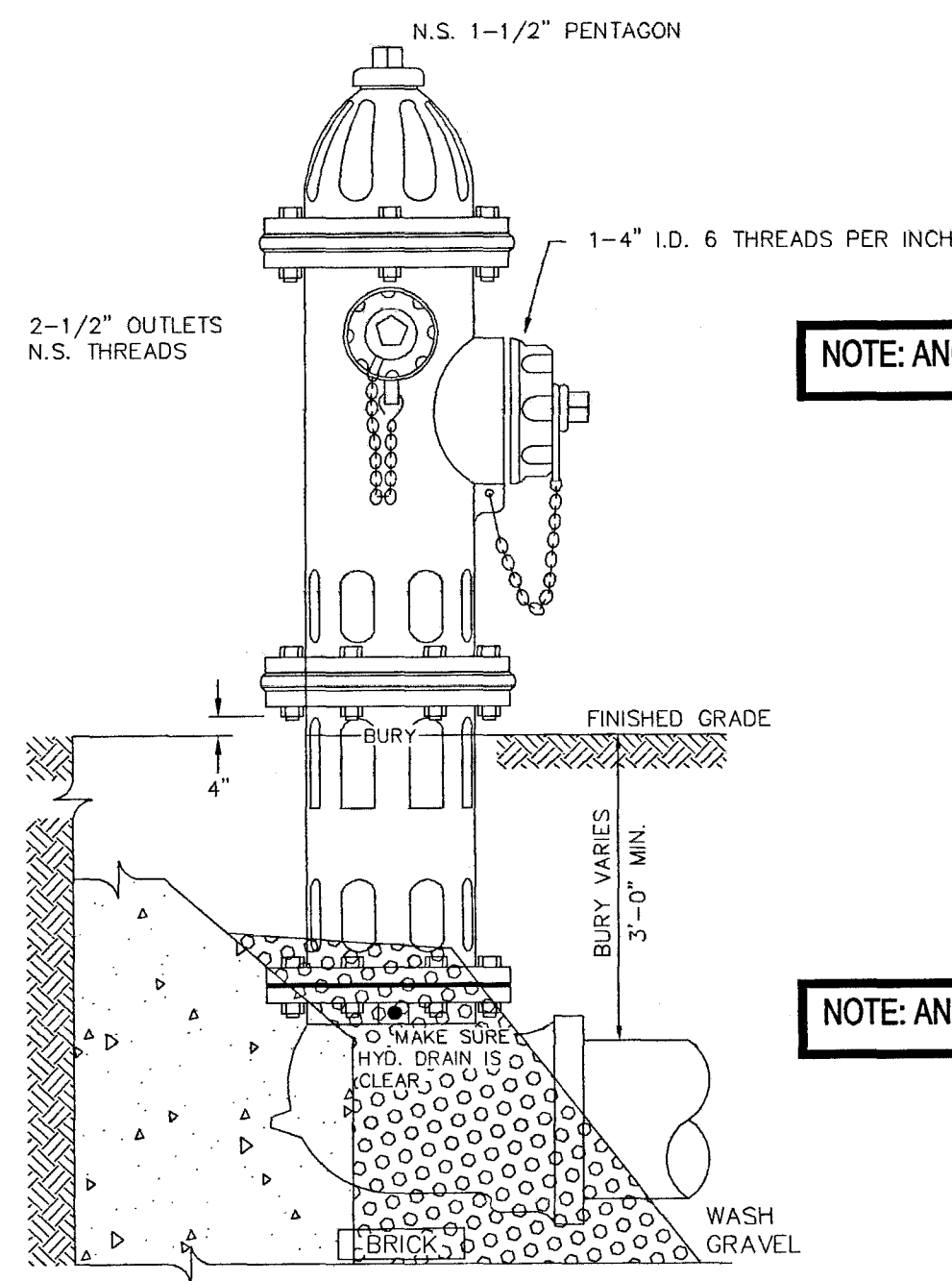
| DATE | REVISION |
|------|----------|
| | |
| | |
| | |

DRAWING NAME: _____
 DRAWN BY: _____ SCALE: As Shown
 DATE OF DRAWING: _____ PROJECT NO.: _____
 CHECKED BY: _____ APPROVED BY: _____

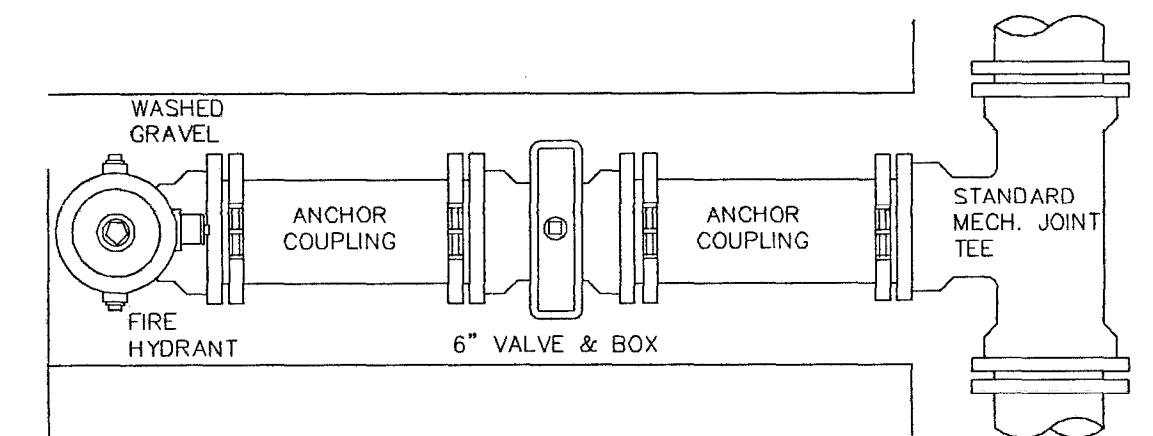
B BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

CLIENT: **S.L. Sethi**
 1554 West Peace Street
 Canton, Mississippi

PROJECT: **STANDARD SANITARY SEWER DETAILS FOR:
 Harbor Crossing
 CITY OF RIDGELAND, MISSISSIPPI**



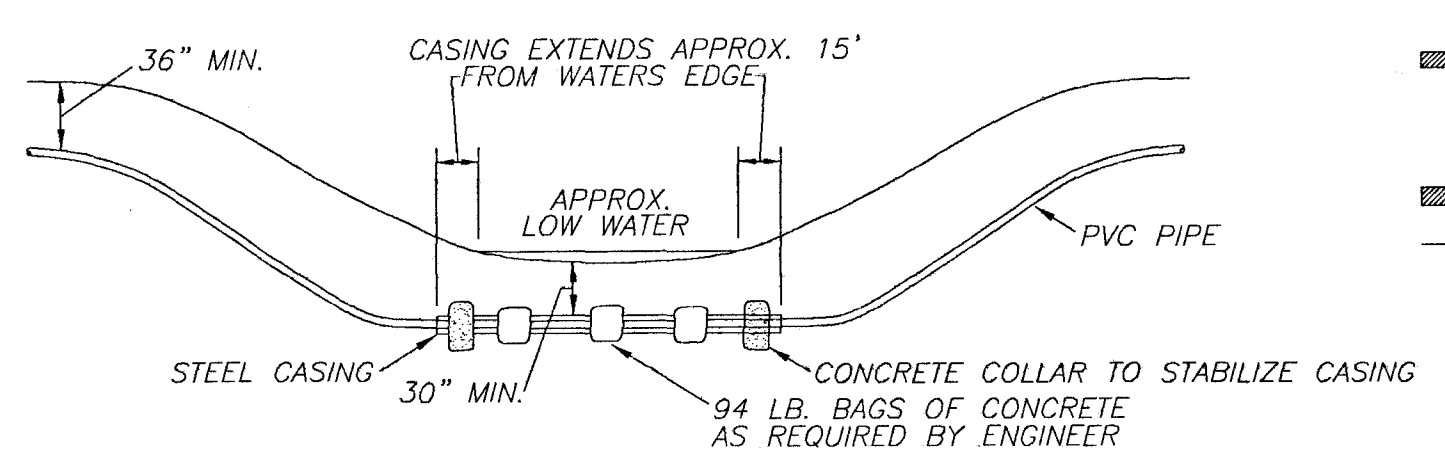
NOTE: ANCHOR RODS REQUIRED FOR ALL FIRE HYDRANTS



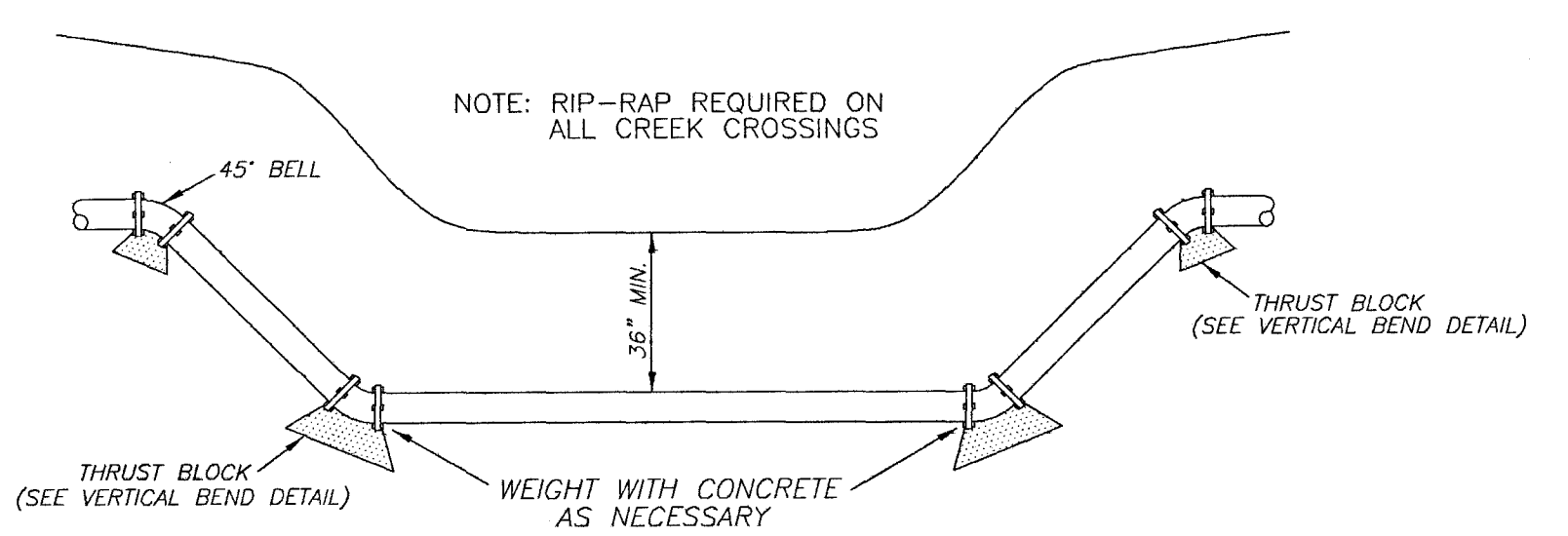
NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.

NOTE: ANCHOR RODS REQUIRED FOR ALL FIRE HYDRANTS

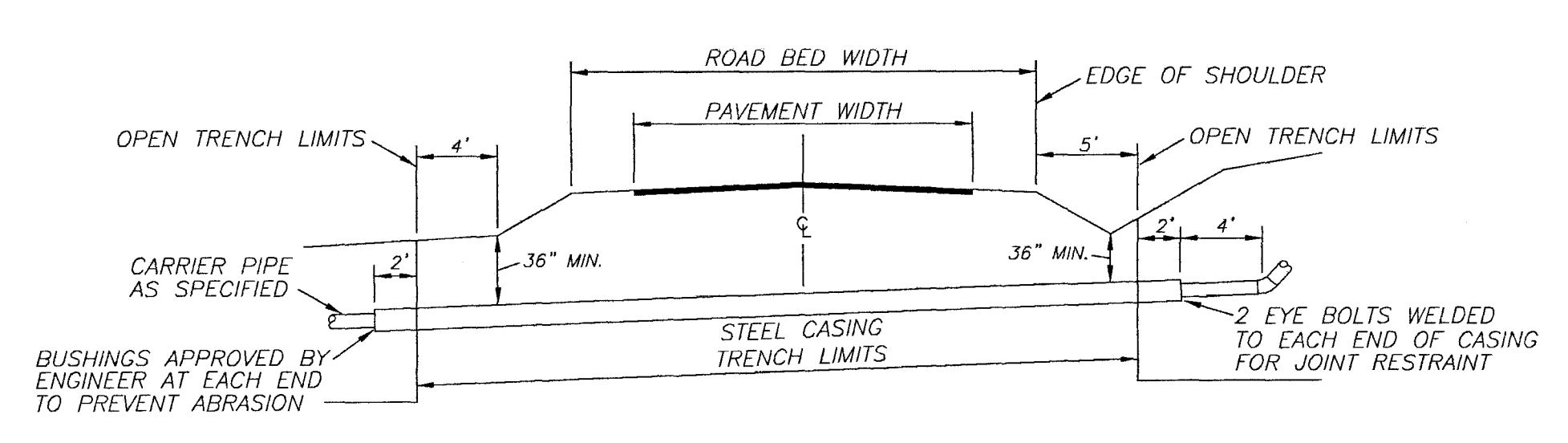
TYPICAL FIRE HYDRANT INSTALLATION ANCHOR RODS REQUIRED (ALL HYDRANTS)



TYPICAL CREEK CROSSING FOR P.V.C. PIPE

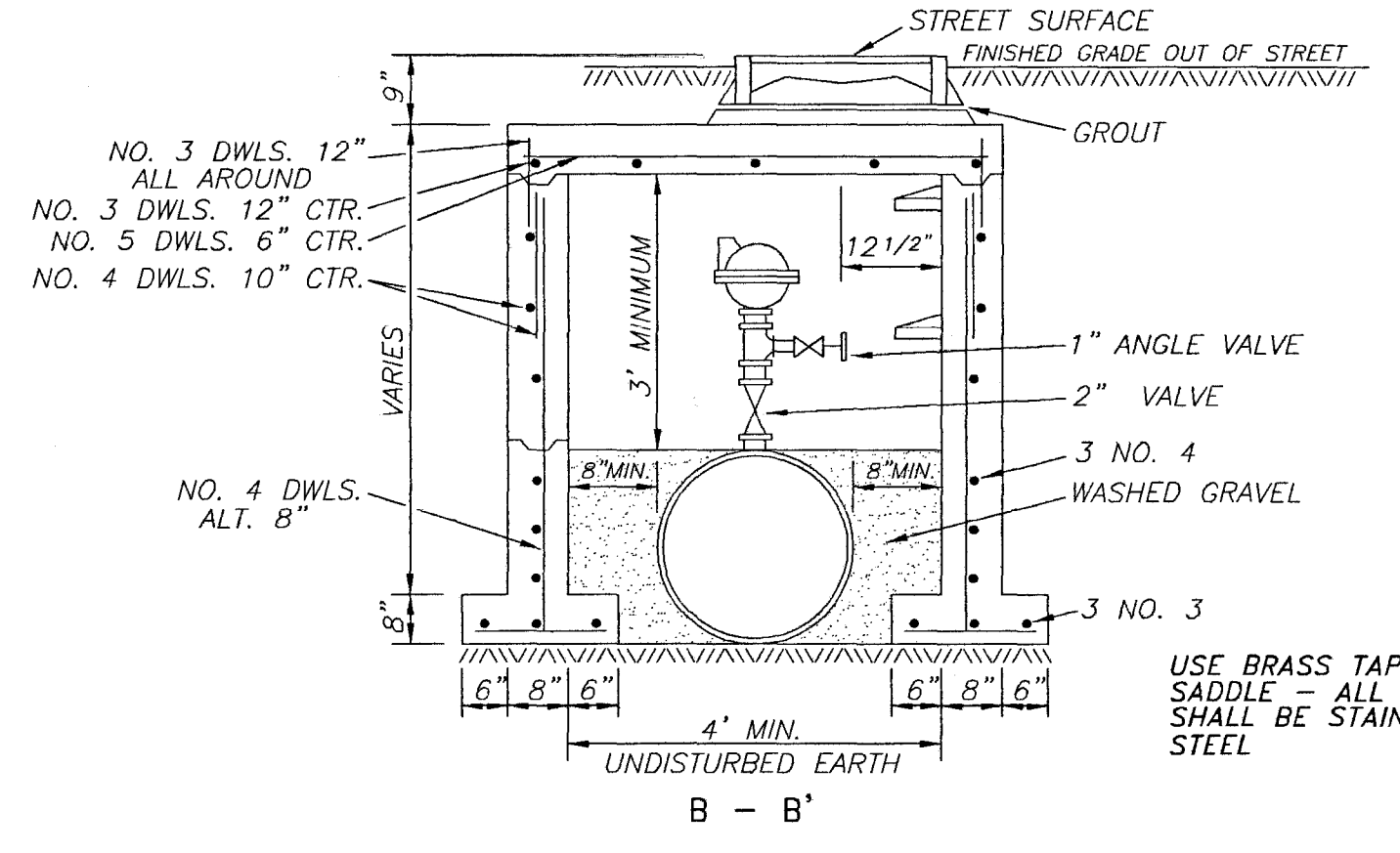
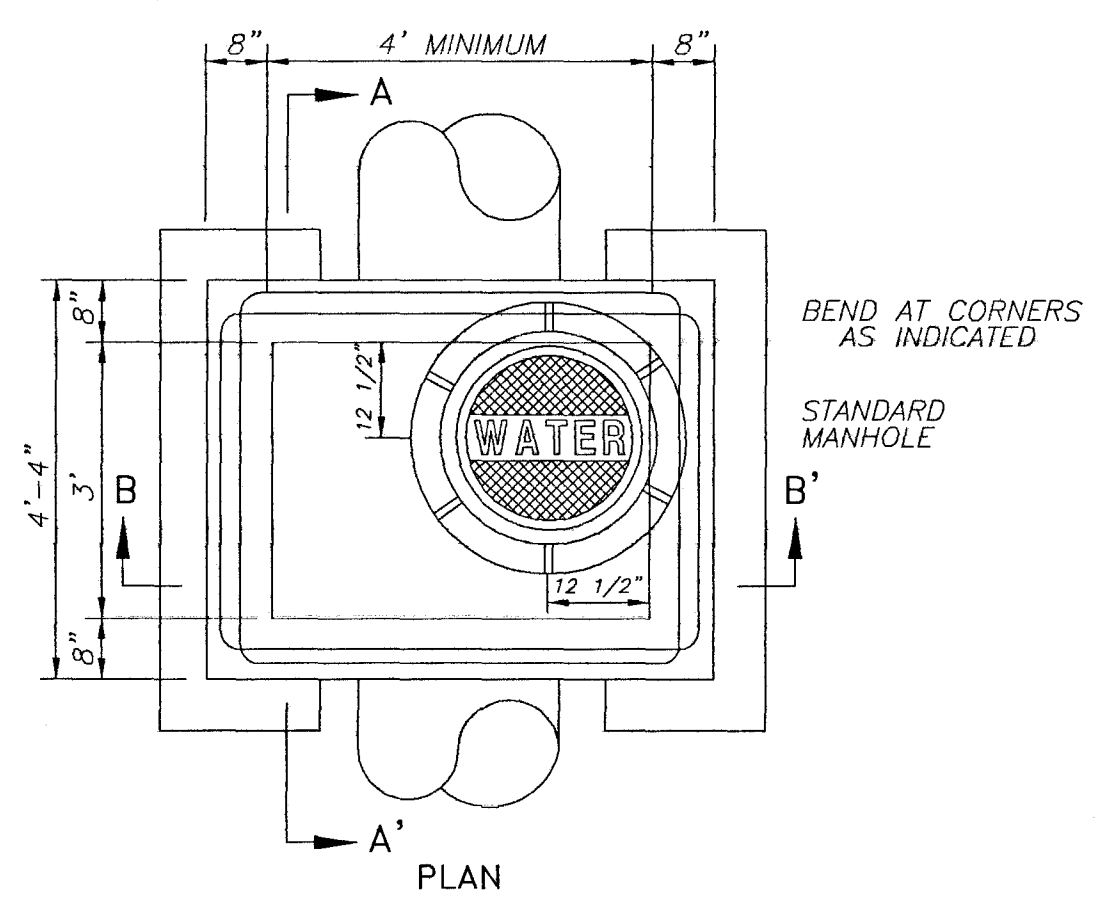


TYPICAL CREEK CROSSING FOR DUCTILE IRON PIPE



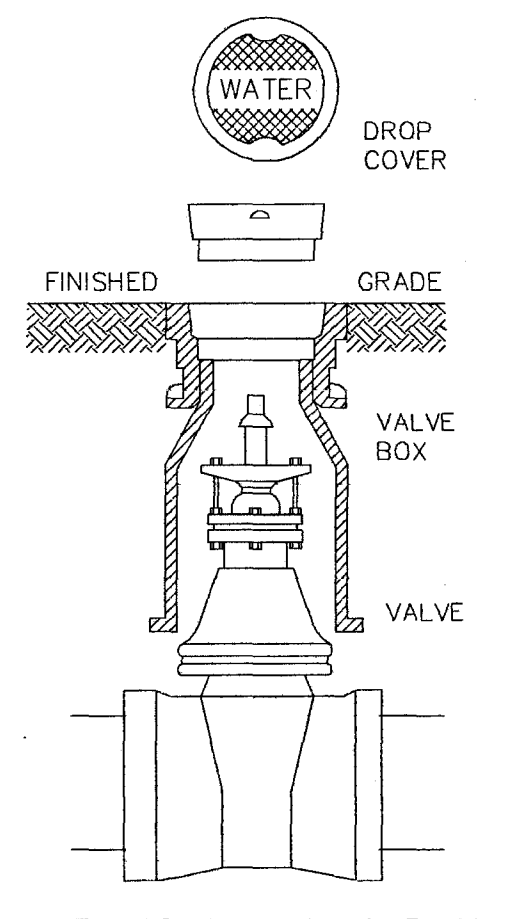
NOTE: VOID BETWEEN SPECIFIED PIPE & STEEL CASING SHALL BE SEALED AT EACH END.

TYPICAL ROAD BORE

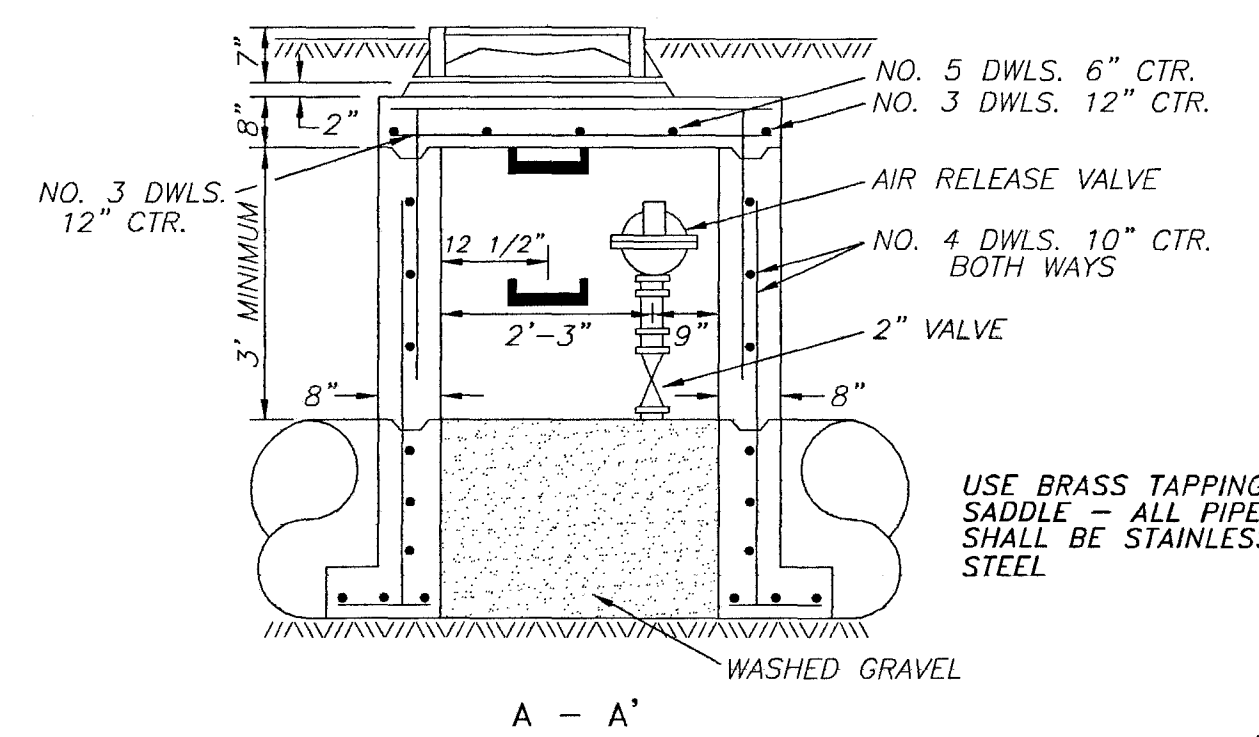


USE BRASS TAPPING SADDLE - ALL PIPE SHALL BE STAINLESS STEEL

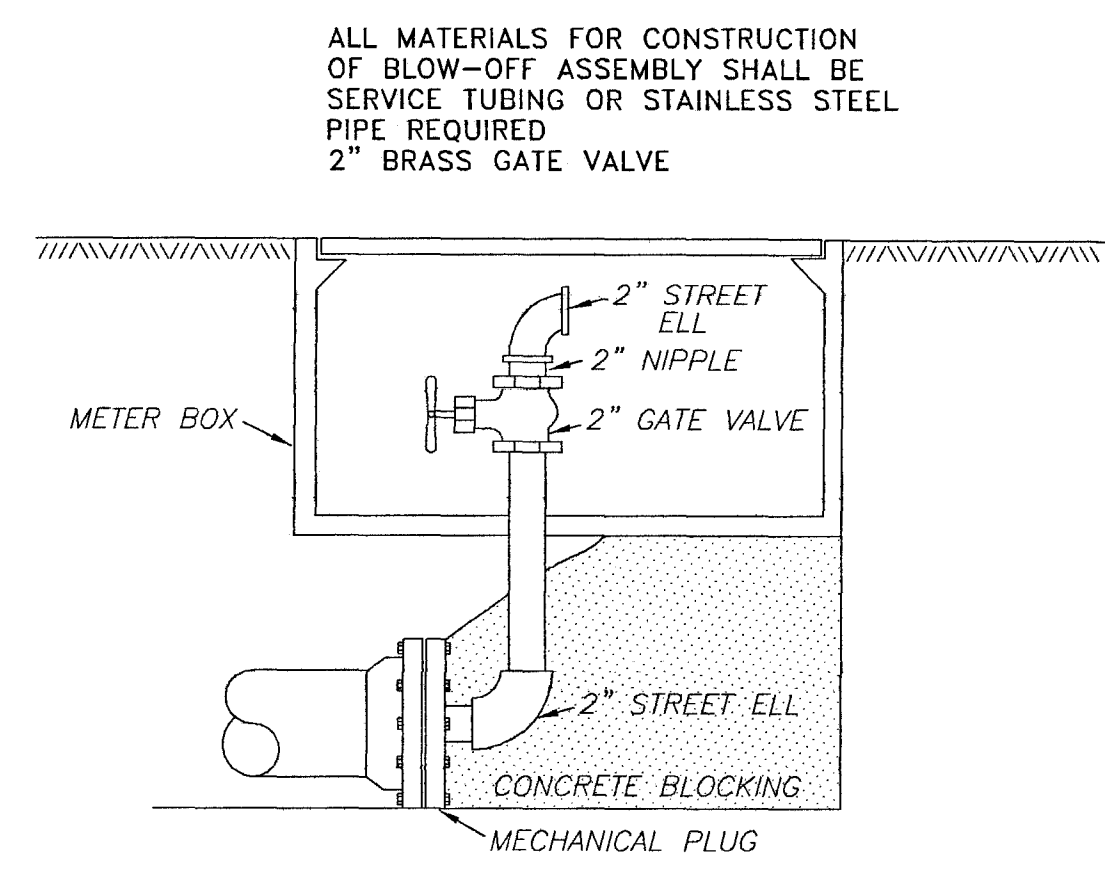
TYPICAL BLOWOFF ASSEMBLY



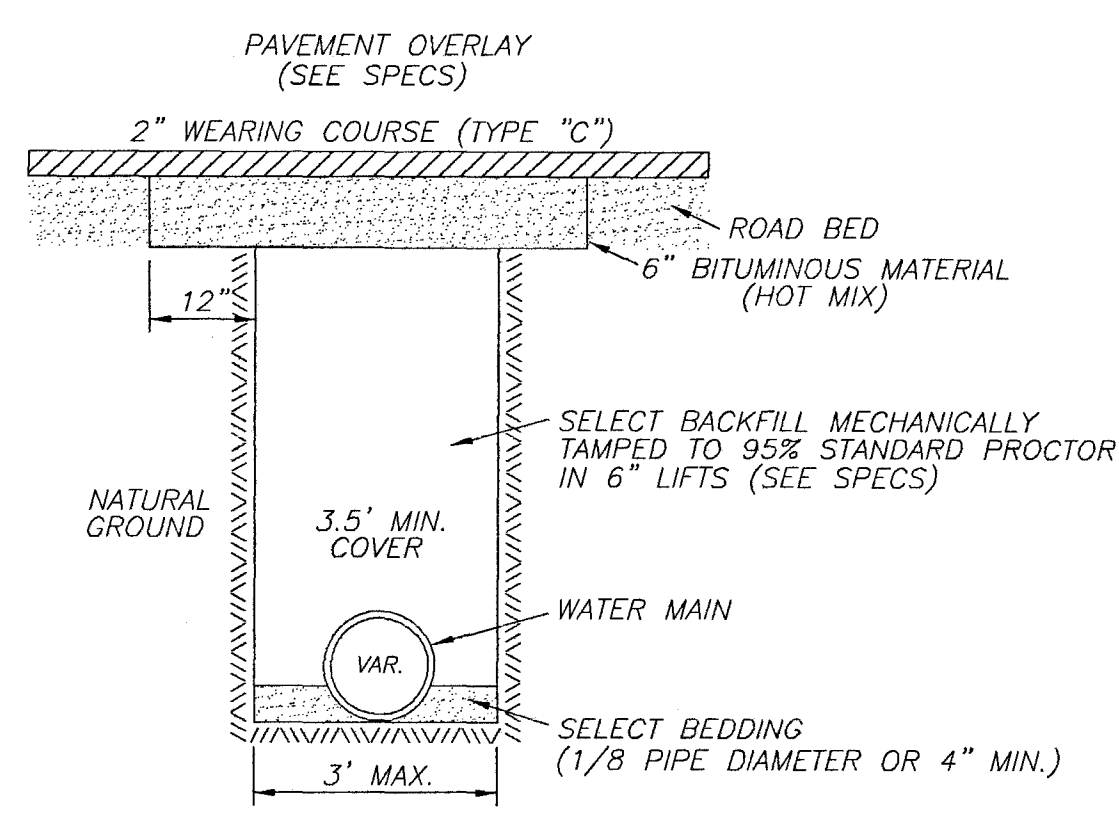
TYPICAL VALVE BOX



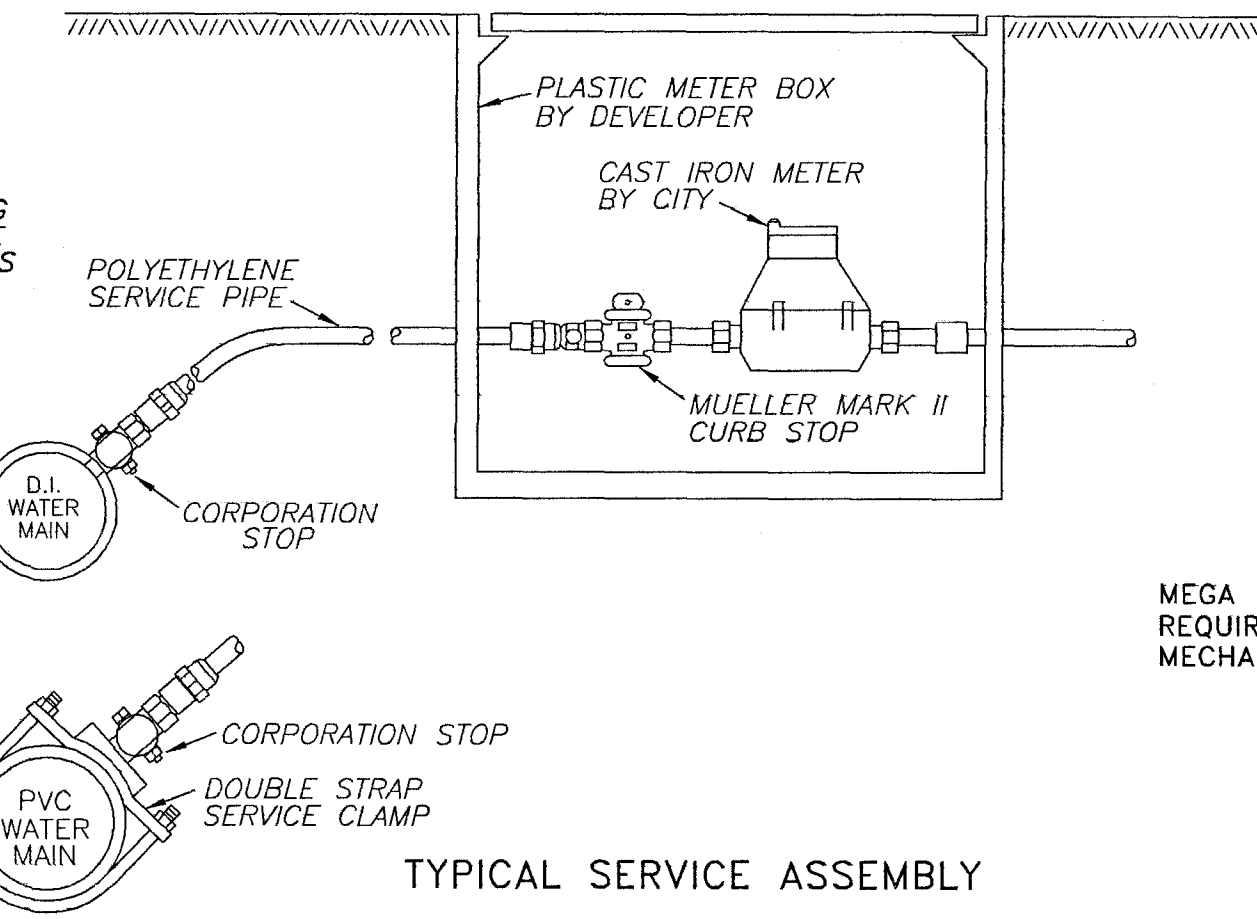
TYPICAL AIR RELEASE VALVE AND MANHOLE



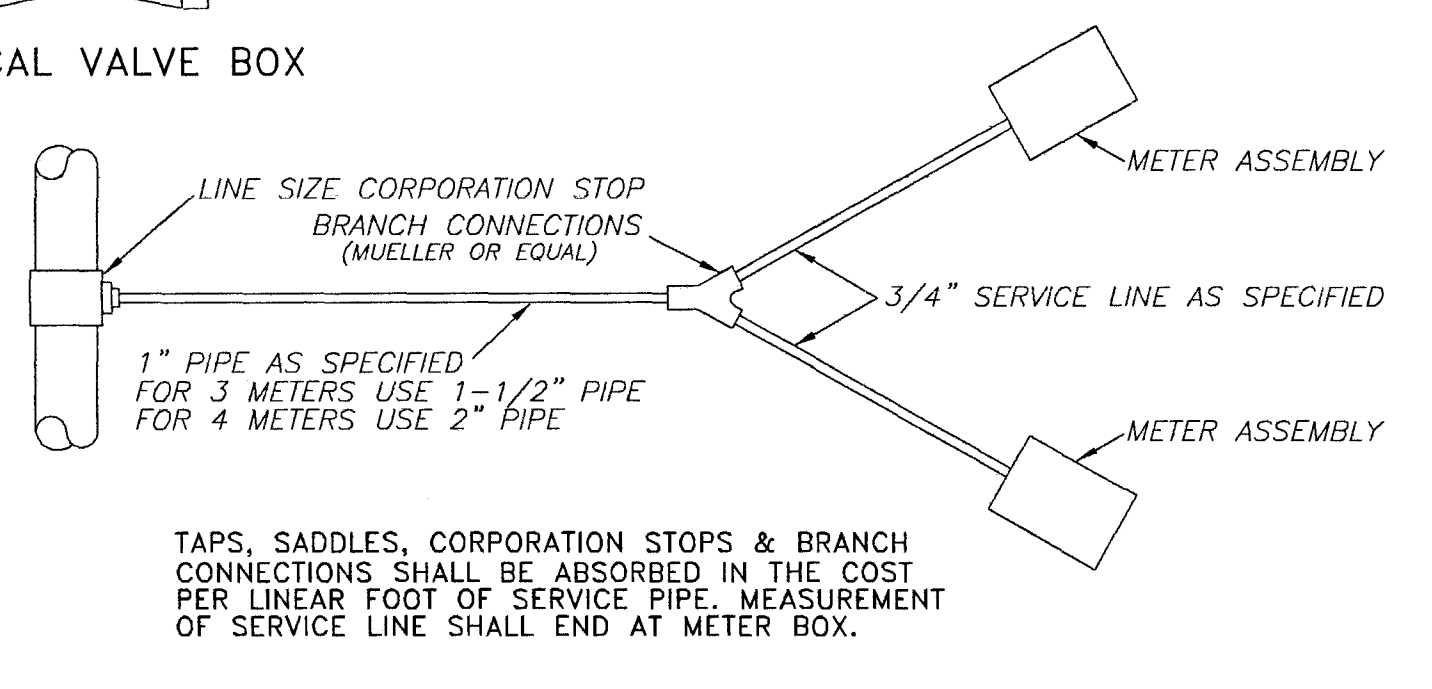
TYPICAL BLOW-OFF ASSEMBLY



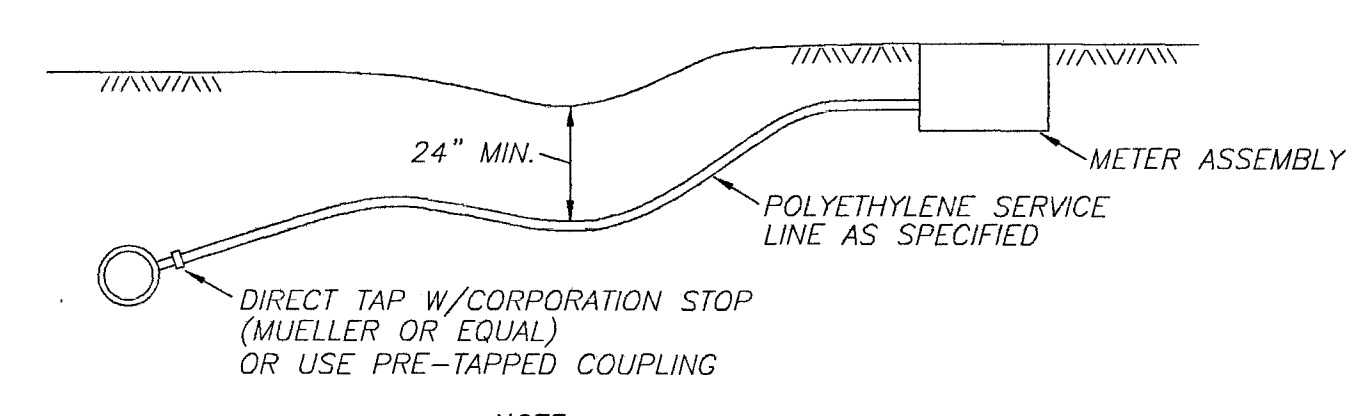
TYPICAL STREET REPAIR



TYPICAL SERVICE ASSEMBLY

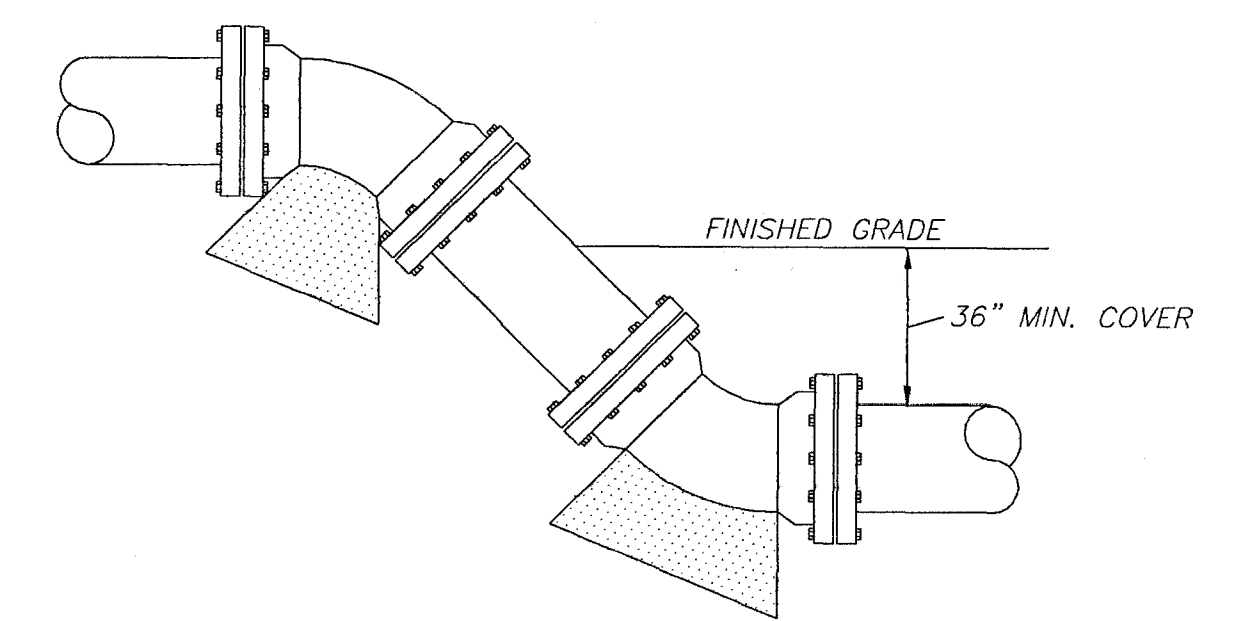
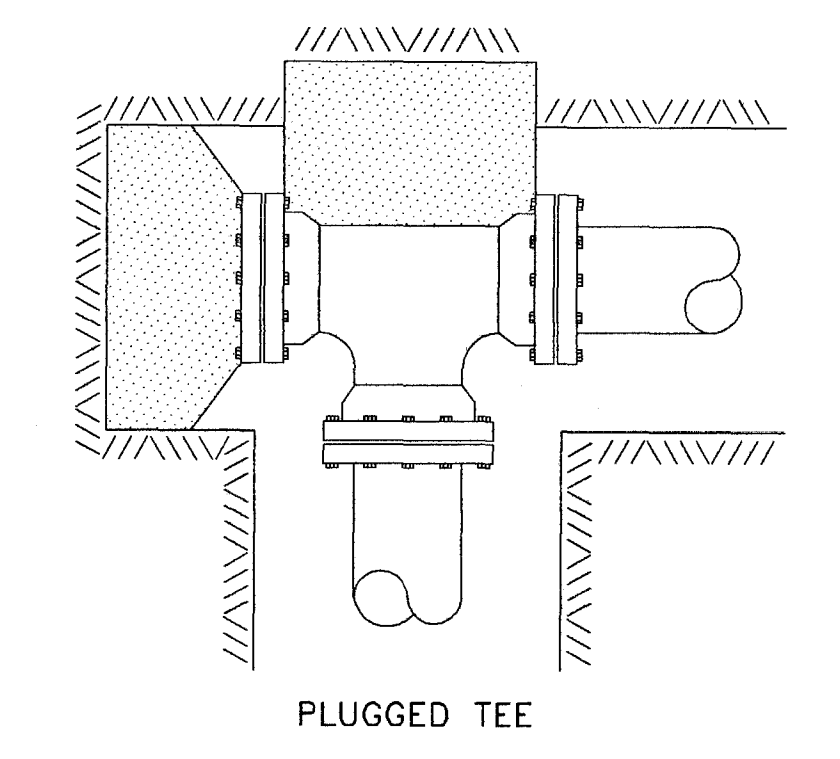
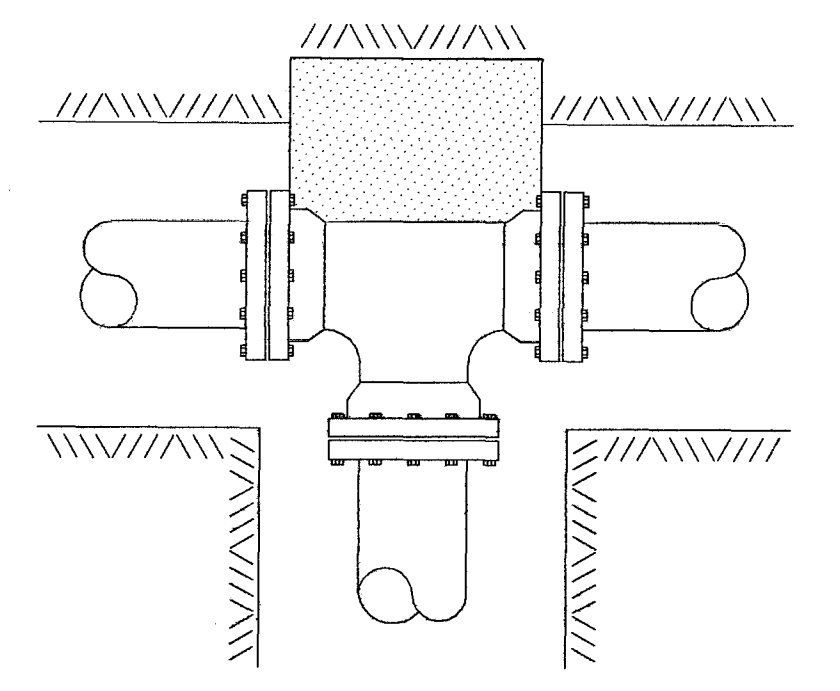


MULTIPLE CONNECTIONS

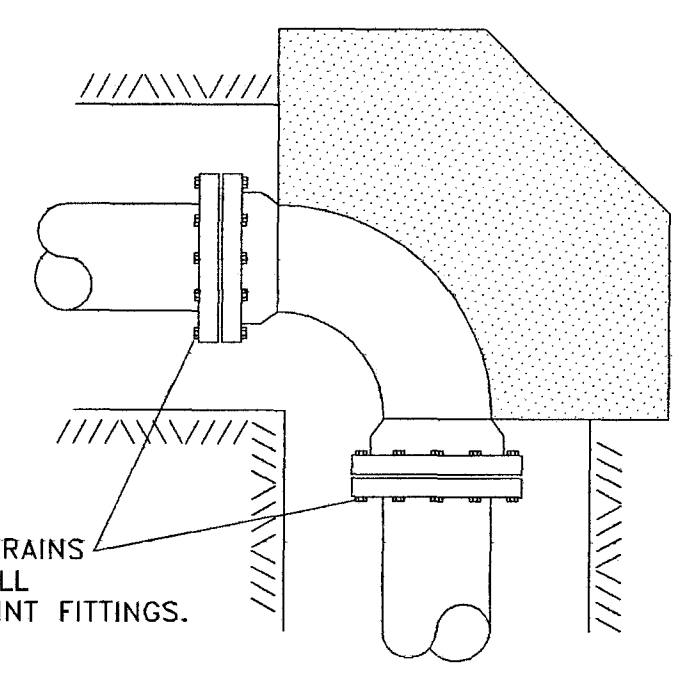


SERVICE CONNECTIONS

NOTE: LOCATE WIRE TO BE PLACED ON ALL SERVICE LINES 1 1/2" AND LARGER REQUIRED.
FOR DUCTILE IRON PIPE



VERTICAL BEND



90° BEND

TYPICAL BLOCKING ON WATER MAIN (3000 PSI CONCRETE REQUIRED)

BEARING AREA IN SQ. FT.

| NOMINAL PIPE DIAMETER (IN) | DEAD-END OR TEE | 90° BEND | 45° BEND | 22-1/2° BEND | 11-1/4° BEND |
|----------------------------|-----------------|----------|-------------|--------------|--------------|
| 4 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 8 | 3.0 | 3.0 | 2.0 | 2.0 | 2.0 |
| 12 | 5.0 | 5.0 | 4.0 | 3.0 | 3.0 |
| 16 | 8.0 | 12.0 | 6.0 | 4.0 | 4.0 |
| 4 | | | 6.0 (.22) | 4.0 (.15) | 4.0 (.15) |
| 6 | | | 14.0 (.52) | 6.0 (.22) | 4.0 (.15) |
| 8 | | | 27.0 (1.0) | 9.0 (.33) | 6.0 (.22) |
| 12 | | | 68.0 (2.5) | 22.0 (.80) | 9.0 (.33) |
| 16 | | | 90.0 (3.33) | 52.0 (1.9) | 18.0 (.67) |

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

| DATE | REVISION |
|------|----------|
| | |
| | |
| | |

DRAWING NAME: _____
 DRAWN BY: _____ SCALE: As Shown
 DATE OF DRAWING: _____ PROJECT NO.: _____
 CHECKED BY: _____ APPROVED BY: _____

B BANKS ENGINEERING & SURVEYING, INC.
 115 LONE WOLF DRIVE, SUITE "B" * MADISON, MS 39110
 OFFICE (601) 407-1240 * FAX (601) 407-1245

CLIENT: **S.L. Sethi**
 1554 West Peace Street
 Canton, Mississippi

PROJECT: **STANDARD WATER DETAILS FOR:
 Harbor Crossing
 CITY OF RIDGELAND, MISSISSIPPI**