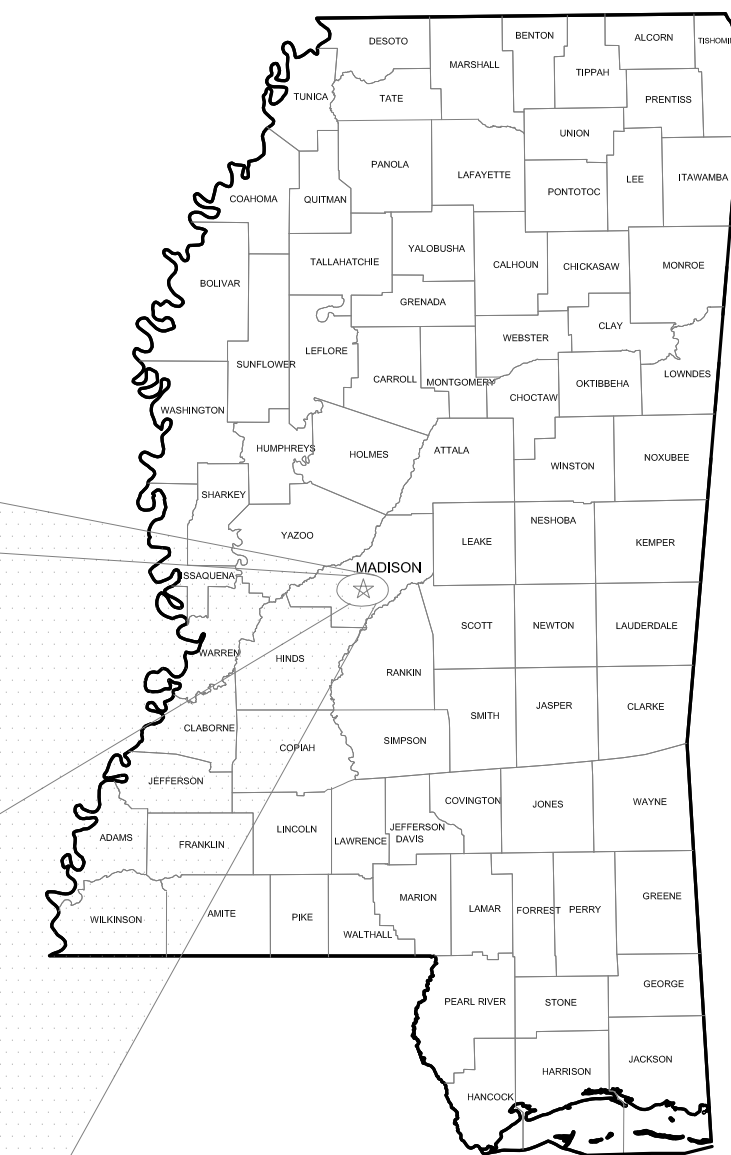
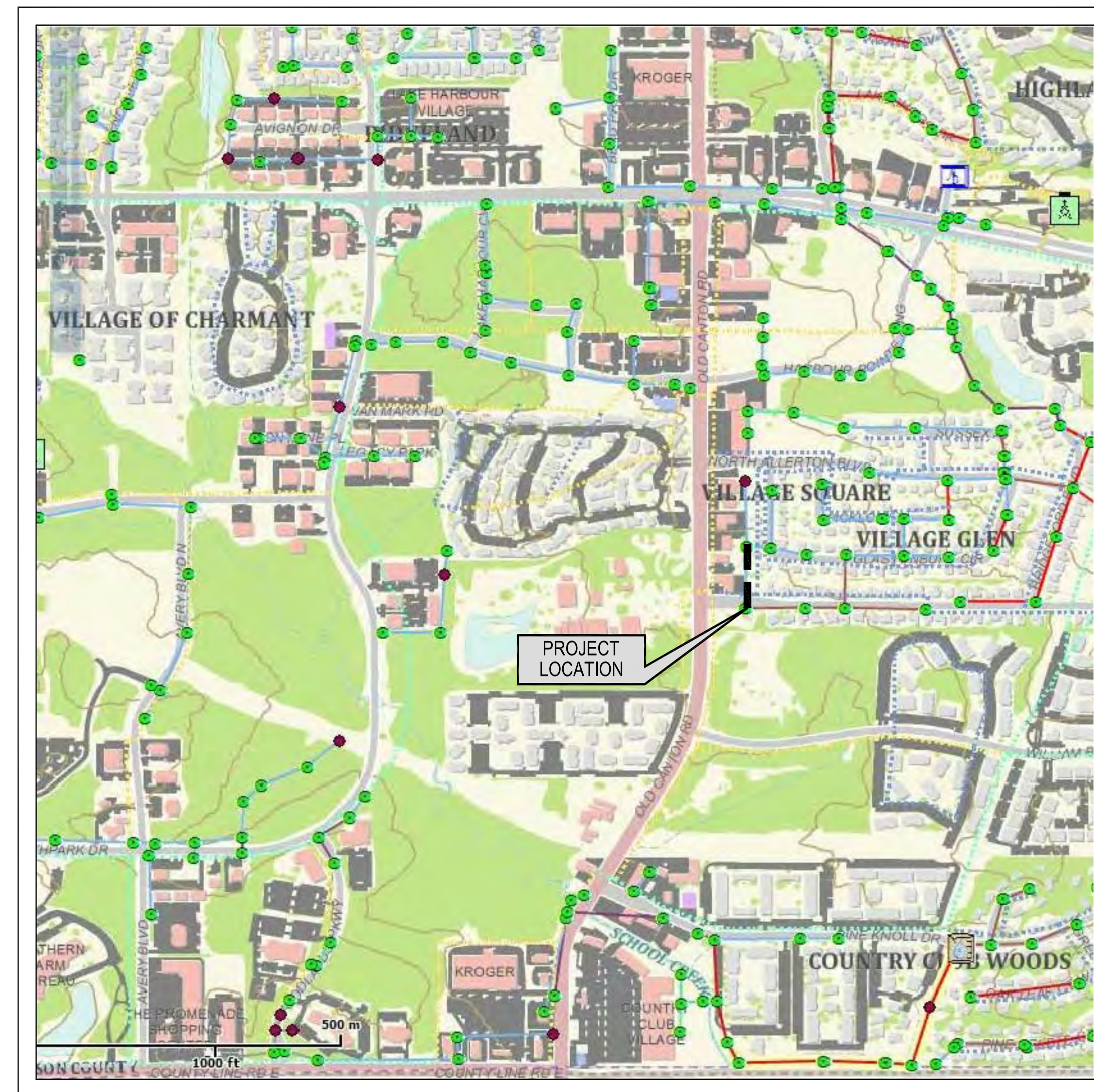


# OPTICAL 2000 SEWER REPLACEMENT

## MH#2479 - MH#2478

### CITY OF RIDGELAND, MISSISSIPPI

INDEX TO DRAWINGS	
SHEET NO.	TITLE
G1.0	COVER
PP1.0	SEWER PLAN AND PROFILE (STA. 0+00 THRU STA. 3+64)
SD1.0	STANDARD SEWER DETAILS
SD2.0	STANDARD WATER DETAILS
SD3.0	STANDARD STORM DRAINAGE DETAILS



OPTICAL 2000 SEWER REPLACEMENT  
 MH#2479 - MH#2478  
 CITY OF RIDGELAND, MISSISSIPPI

DRAWING REVISIONS		
NO.	REMARKS	DATE

MAYOR  
 GENE MCGEE

BOARD OF ALDERMAN  
 D.I. SMITH  
 KEN HEARD  
 CHUCK GAUTIER  
 KEVIN HOLDER  
 BRIAN RAMSEY  
 SCOTT JONES  
 WESLEY HAMLIN

PUBLIC WORKS DIRECTOR  
 MIKE MCCOLLUM

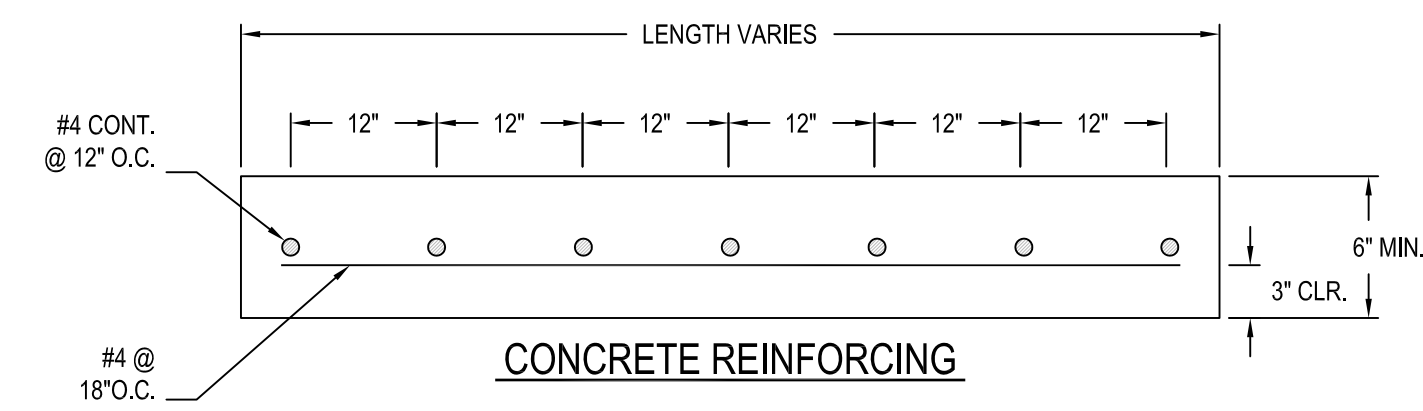
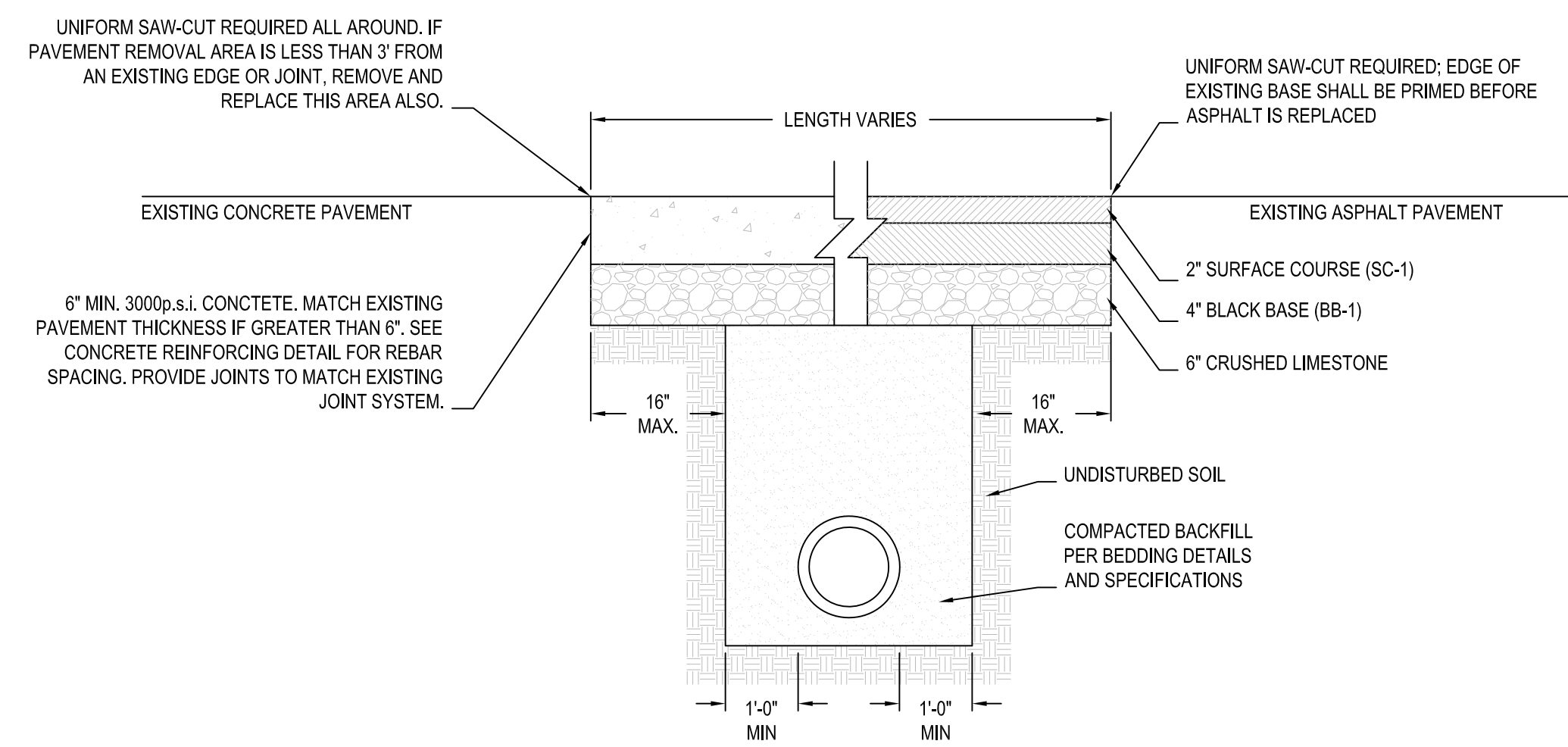
VICINITY MAP  
 AUGUST 2014  
 400-650-576

DRAWN BY:	CWB	SCALE:	As Shown
DESIGNED BY:	CWB	DATE:	August 2014
CHECKED BY:	CWB	PROJECT:	400455-076
DRAWING TITLE:			
COVER			
SHEET NUMBER:			
G1.0			

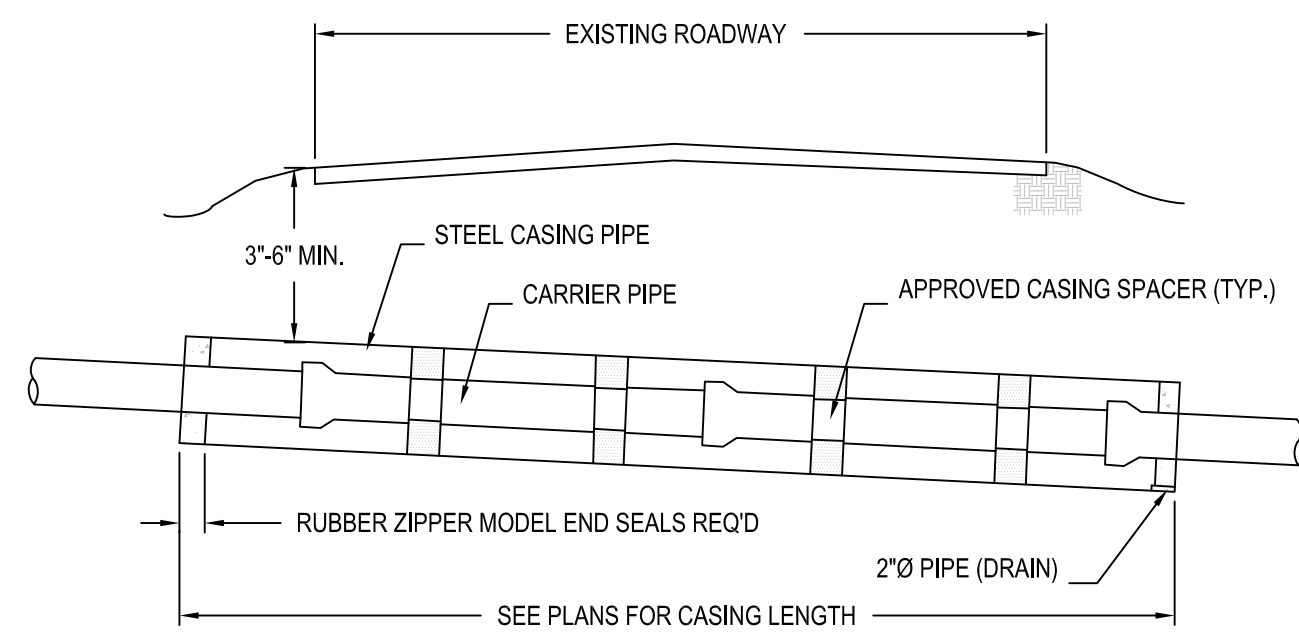




**OPTICAL 2000 SEWER REPLACEMENT**  
**MH#2479 - MH#2478**  
**CITY OF RIDGELAND, MISSISSIPPI**



**STREET REPAIR OF OPEN CUT**  
SCALE: N.T.S.

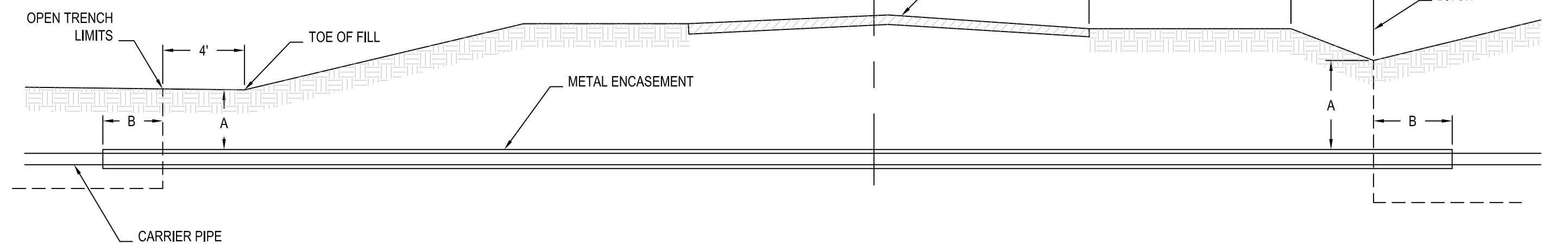


**NOTES**

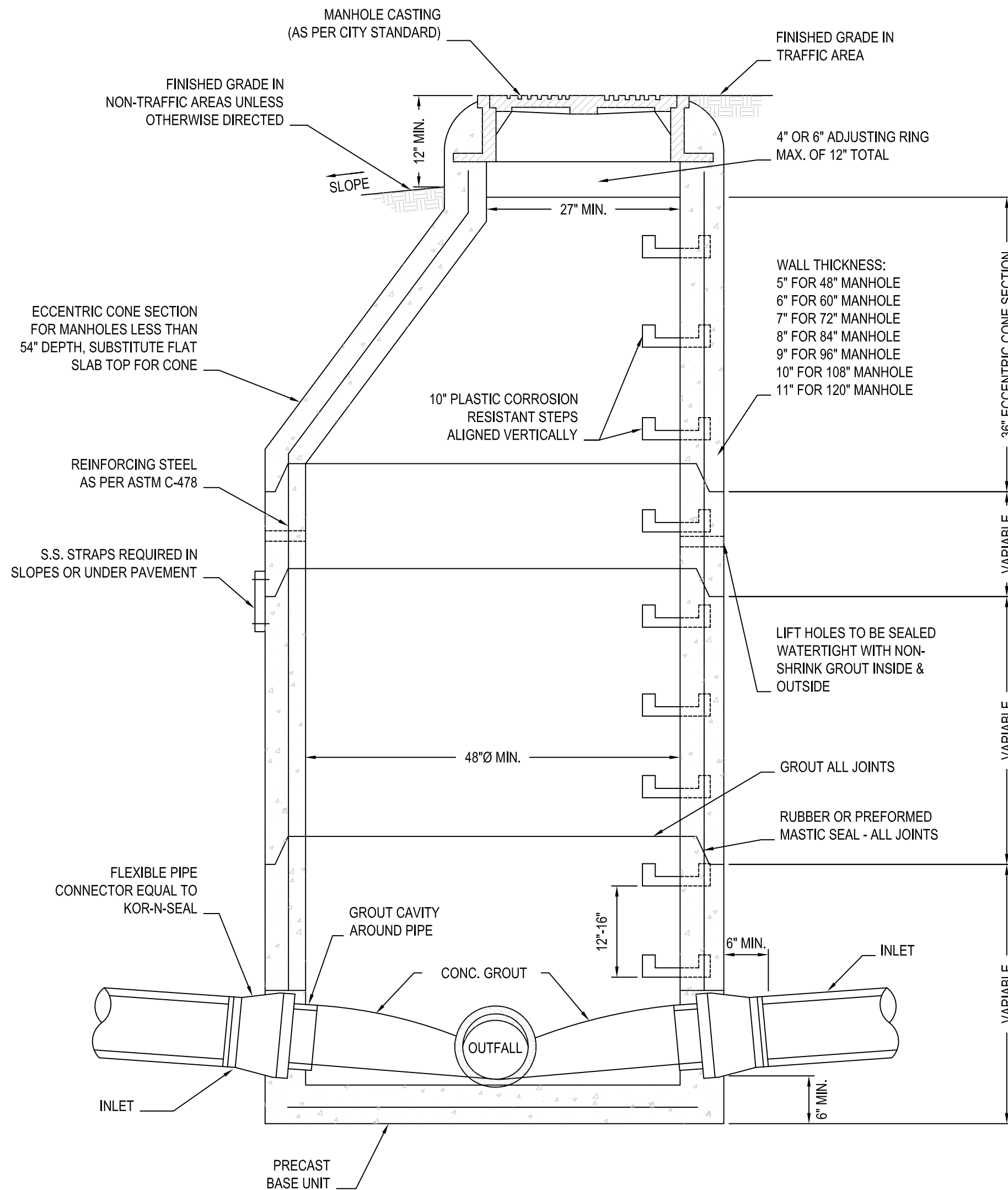
- SPACE CASING SPACERS ACCORDING TO PIPE OR SPACER MANUFACTURER'S RECOMMENDATIONS OR 2 PER SECTION OF PIPE, WHICHEVER IS GREATEST, PLUS 1 WITHIN 2 FEET OF EACH END OF CROSSING.
- PUSH OR PULL THE CARRIER PIPE THROUGH THE CASING SO THAT THE CARRIER JOINTS ARE ALWAYS COMPRESSED.

**CASING SPACER DETAIL**  
SCALE: N.T.S.

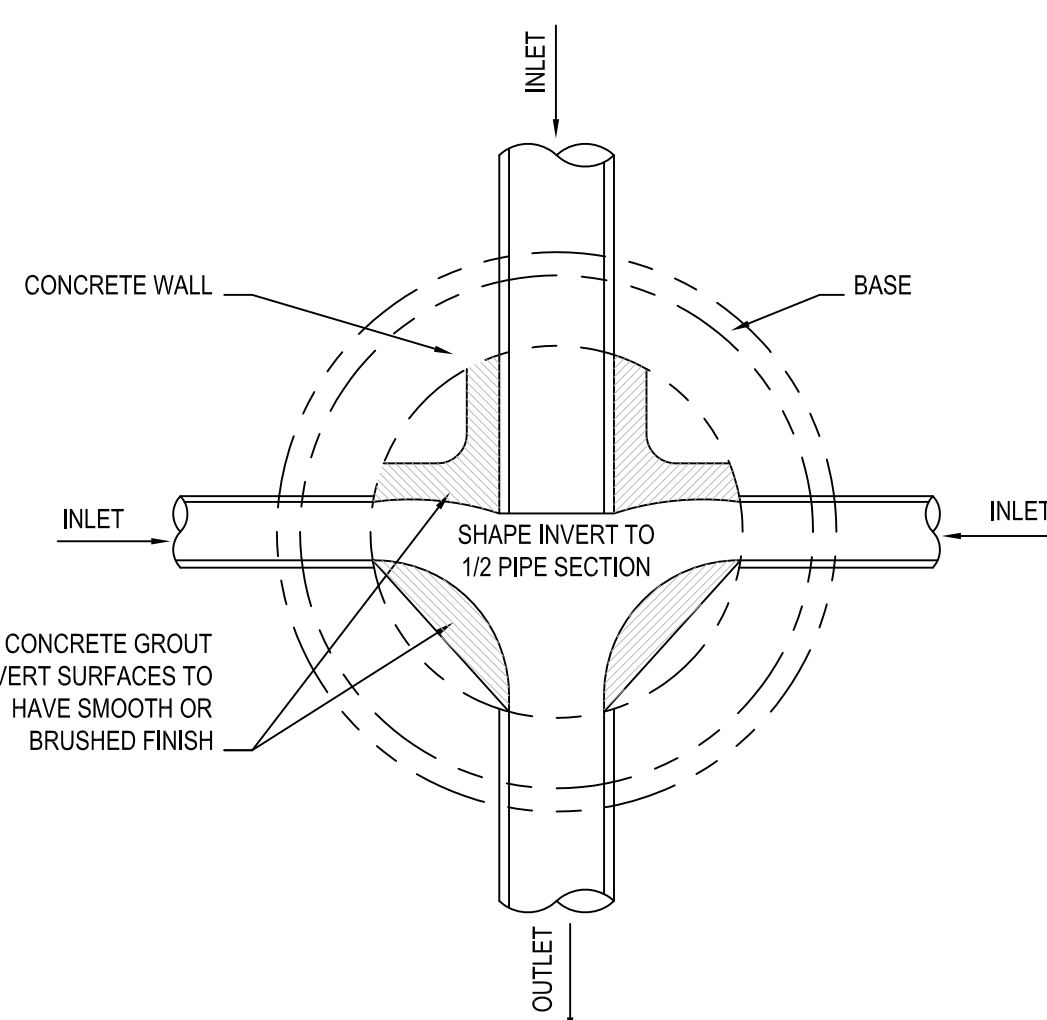
NOTES: DIMENSION "A" TO BE 3'-6" MIN. FOR ALL CASINGS. DIMENSIONS "B" TO BE 2' MIN. FOR LINES 3" DIA. AND UNDER, AND 4' MIN. FOR LINES OVER 3". ENCASEMENTS TO BE INSTALLED UNDER THE ROAD BY MEANS OF JACKING THROUGH, OR BY DRY BORING A HOLE THAT WILL RECIEVE THE CASING WITH A SNUG FIT.



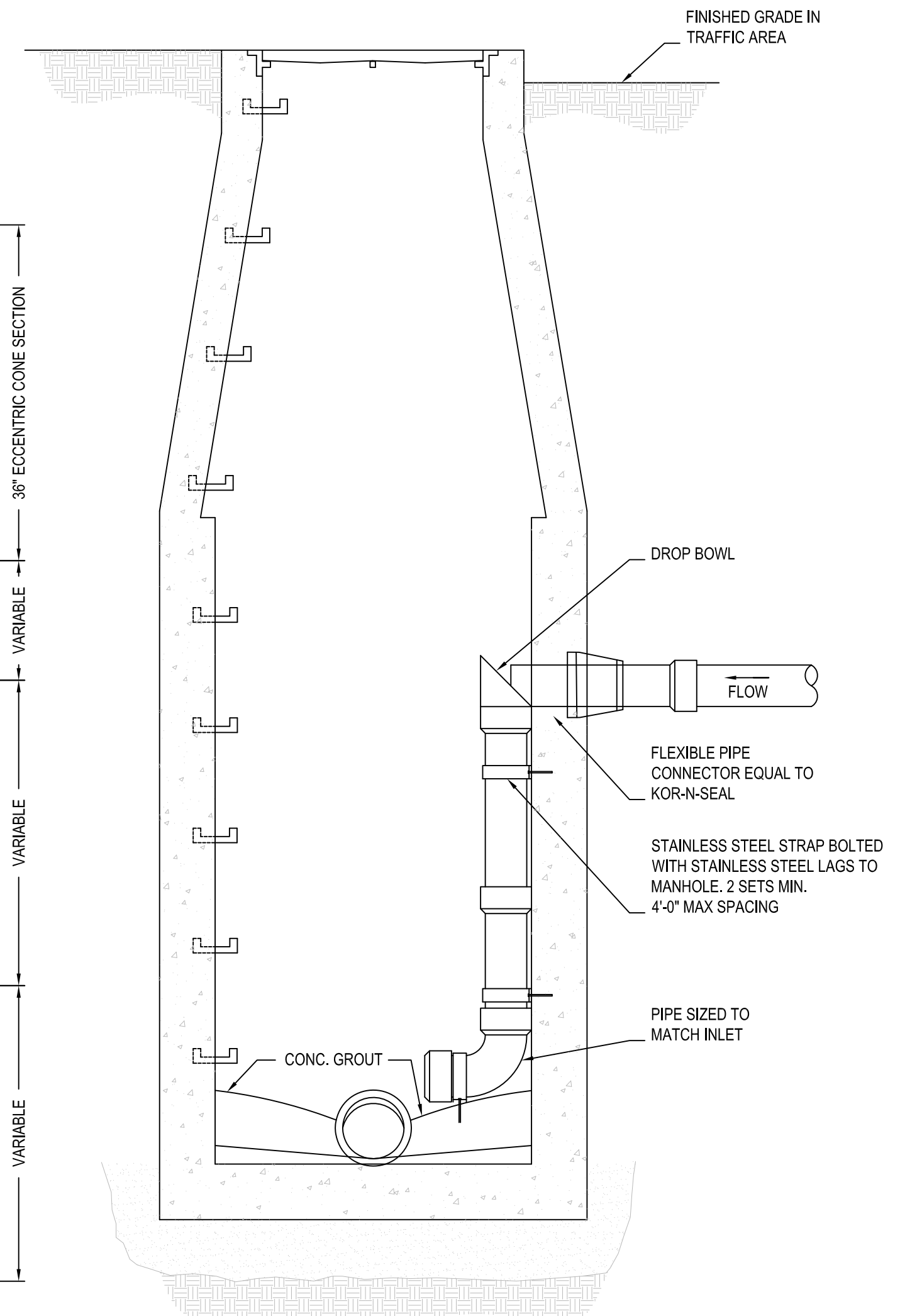
**CROSS SECTION OF CONDUIT CROSSING**  
SCALE: N.T.S.



**SECTION - PRECAST CONC. MANHOLE**  
SCALE: N.T.S.



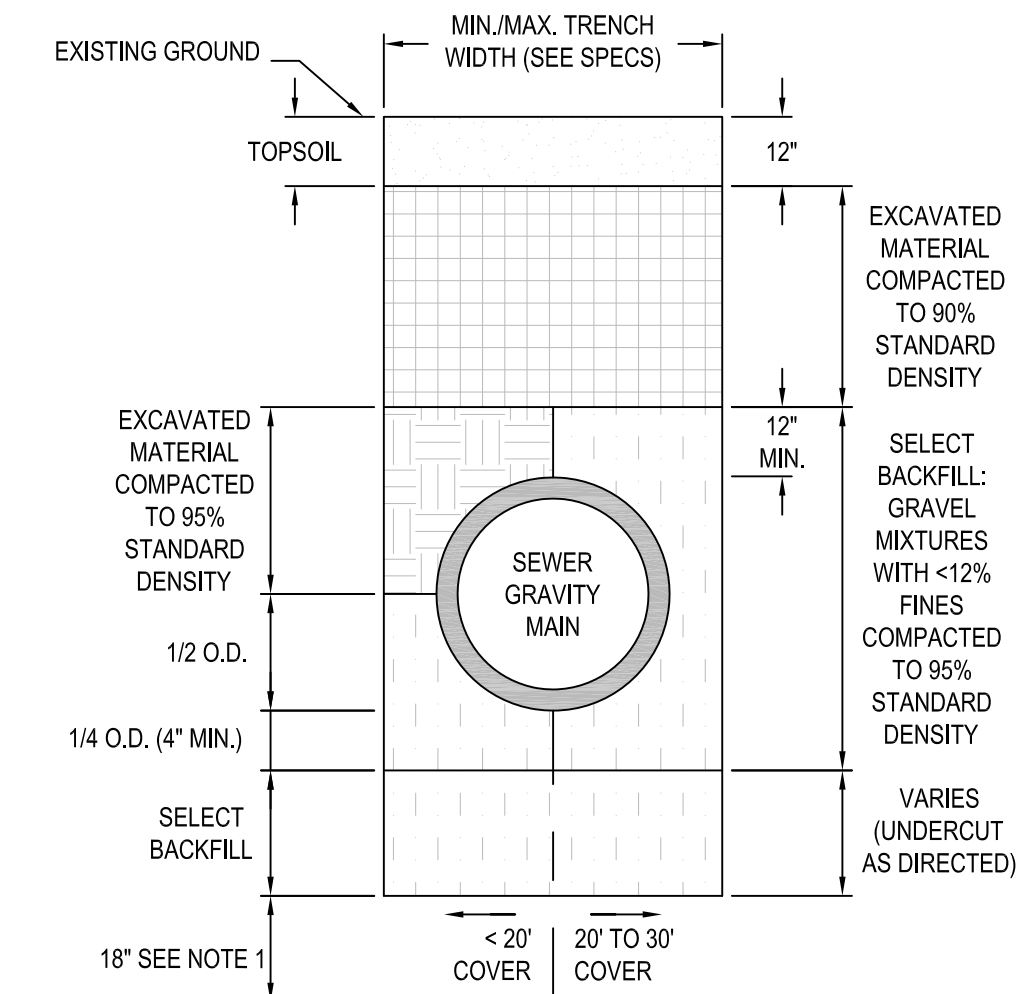
**PLAN - MANHOLE FLOW CHANNELS**  
SCALE: N.T.S.



**INSIDE DROP INLET**  
SCALE: N.T.S.

**NOTE:**

- DEWATERING REQUIRED TO THIS LEVEL (MIN.). THE CONTRACTOR SHALL MAINTAIN WATER LEVEL TO A LEVEL OF 18" OR GREATER BELOW THE UNDERCUT DEPTH OR THE TRENCH SUBGRADE, WHICHEVER IS DEEPER, BEFORE PIPE PLACEMENT WILL BE ALLOWED.
- SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS AND MIN/MAX TRENCH WIDTH



**GRAVITY SEWER TRENCH DETAIL**  
SCALE: N.T.S.

DRAWING REVISIONS		
NO.	REMARKS	DATE

DRAWN BY: CWB	SCALE: AS SHOWN
DESIGNED BY: CWB	DATE: August 2014
CHECKED BY: CWB	PROJECT: 400455-076

**WATER DETAILS**

SHEET NUMBER: **SD1.0**







**BLURTON, BANKS & ASSOC., INC.**  
**ENGINEERS - SURVEYORS - CONSTRUCTORS**

P.O. BOX 12448 • 6055 RIDGEWOOD ROAD, STE D  
JACKSON, MISSISSIPPI 39211  
PH. 601-957-2055 Fax 601-977-0442

September 29, 2014

Mr. Ben Mays  
The City of Ridgeland  
P.O. Box 217  
Ridgeland, MS 39158

---

**INVOICE**

**054-633**

FOR: Your P.O. # 14-48118

Remove and replace sanitary sewer line up to Optical 2000.....\$42,398.00

Total this Invoice

\$42,398.00

## FINAL LABOR COST STATEMENT

### CITY OF RIDGELAND, MISSISSIPPI

#### OPTICAL 2000 SEWER REPLACEMENT

#### TERM BID

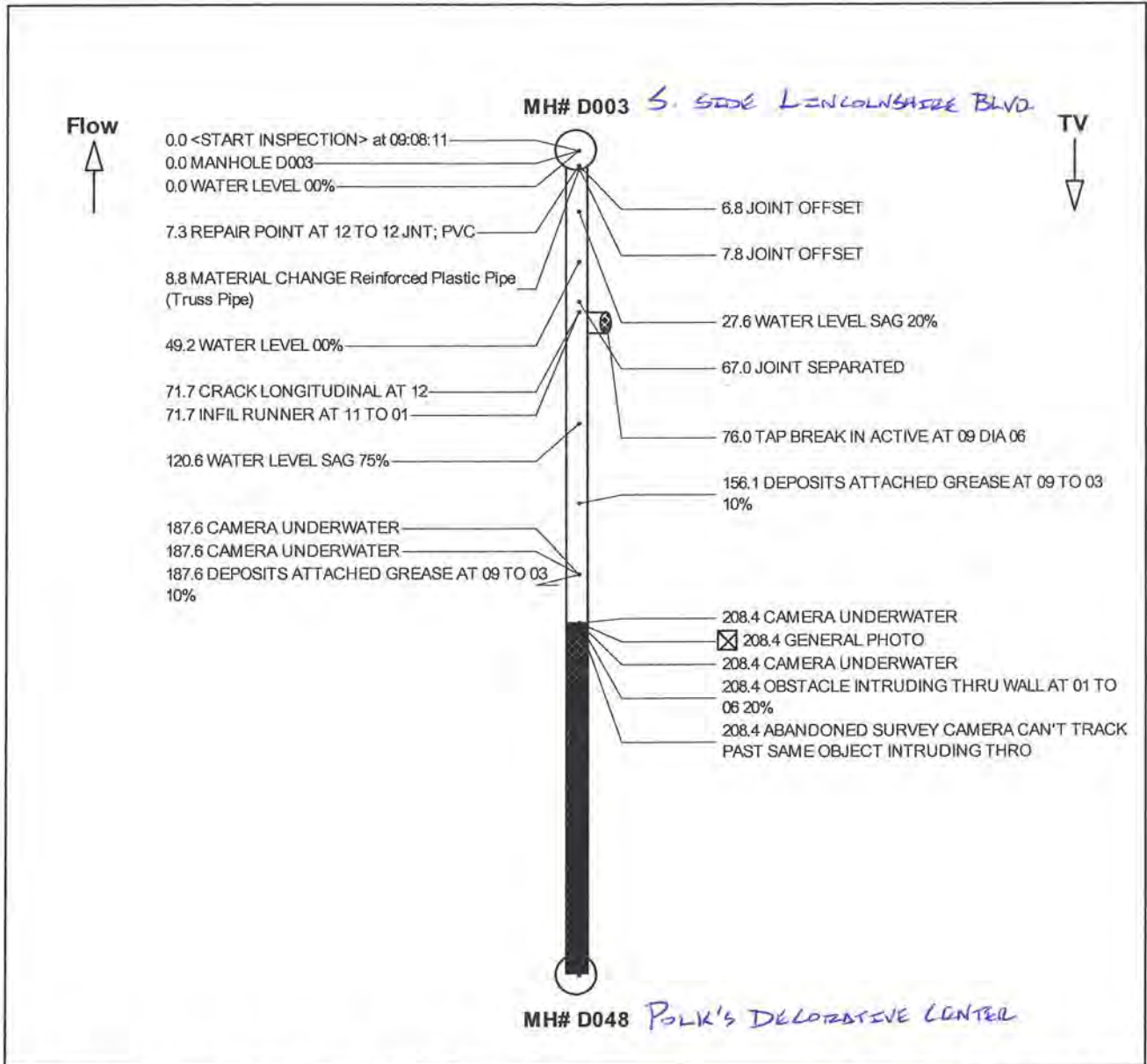
**SEPTEMBER 2014**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>LABOR - BLURTON, BANKS &amp; ASSOCIATES</b>				
Class "B" Structural Concrete, Minor Structures	CY	1.6		Payment in Equipment and Labor below
Reinforcing Steel	LF	100.0		
Removal of Existing Surface Inlet	EA	1.0		
Removal of Existing 24" RCP	LF	10.0		
<b>Subtotal Storm Drainage</b>				
6" C900 PVC Water Main (0' - 5' Cut)	LF	20.0	\$8.50	\$ 170.00
6" C900 PVC Water Main, Installed in Casing	LF	10.0	\$30.00	\$ 300.00
12" Steel Casing, Open-Cut, 0' - 3' Deep	LF	10.0	\$15.00	\$ 150.00
6" Gate Valve & Box	EA	2.0	\$140.00	\$ 280.00
Connection to Existing 6" Main for Caps and Valves	EA	4.00	\$1,800.00	\$ 7,200.00
Ductile Iron Fittings	LB	186.0	\$1.50	\$ 279.00
<b>Subtotal Water</b>				<b>\$ 8,379.00</b>
Seed & Fertilize	AC	0.15	\$1,500.00	\$ 225.00
Supply & Install Select Bedding	CY	60.0	\$ 16.00	\$ 960.00
Supply & Install Select Backfill	CY	60.00	\$ 11.00	\$ 660.00
8" Sanitary Sewer (6' - 8' Cut, PVC)	LF	160.0	\$ 15.00	\$ 2,400.00
10" HDPE Pipe, DR 11, Directional Bored	LF	210.0	\$ 60.00	\$ 12,600.00
6" Sanitary Sewer Service Line	LF	40.0	\$ 12.50	\$ 500.00
Service Connection w/ Wye	EA	5.0	\$ 75.00	\$ 375.00
Supply and Install 8" Plug	EA	4.0	\$ 10.00	\$ 40.00
48" Diameter Standard Manholes (0'-6')	EA	1.0	\$ 1,800.00	\$ 1,800.00
Connection to Existing Sewer Manhole	EA	1.0	\$ 900.00	\$ 900.00
Removal of Existing Sewer Manhole	EA	1.00	\$ 700.00	\$ 700.00
<b>Subtotal Sewer</b>				<b>\$ 21,160.00</b>
Backhoe & Operator	HR	72.0	\$45.00	\$ 3,240.00
Trackhoe & Operator	HR	72.0	\$90.00	\$ 6,480.00
Foreman	HR	72.0	\$26.00	\$ 1,872.00
Laborer	HR	72.0	\$18.00	\$ 1,296.00
<b>Subtotal Equipment &amp; Labor</b>				<b>\$ 12,888.00</b>
<b>LABOR SUBTOTAL - BLURTON, BANKS &amp; ASSOCIATES</b>				<b>\$ 42,427.00</b>
<b>MATERIALS - CITY OF RIDGELAND</b>				
6" C900 PVC Water Main (0' - 5' Cut)	LF	30.0	\$4.20	\$ 126.00
6" Gate Valve & Box	EA	2.0	\$370.00	\$ 740.00
6" Mega Lug Restrained Joint Fittings, Star PVC 4006	EA	4.00	\$20.00	\$ 80.00
8" SDR 26 PVC Sanitary Sewer Pipe	LF	168.0	\$ 4.53	\$ 761.04
<b>MATERIALS SUBTOTAL - CITY OF RIDGELAND</b>				<b>\$ 1,707.04</b>
<b>OPTICAL 2000 SEWER REPLACEMENT TOTAL</b>				<b>\$ 44,134.04</b>







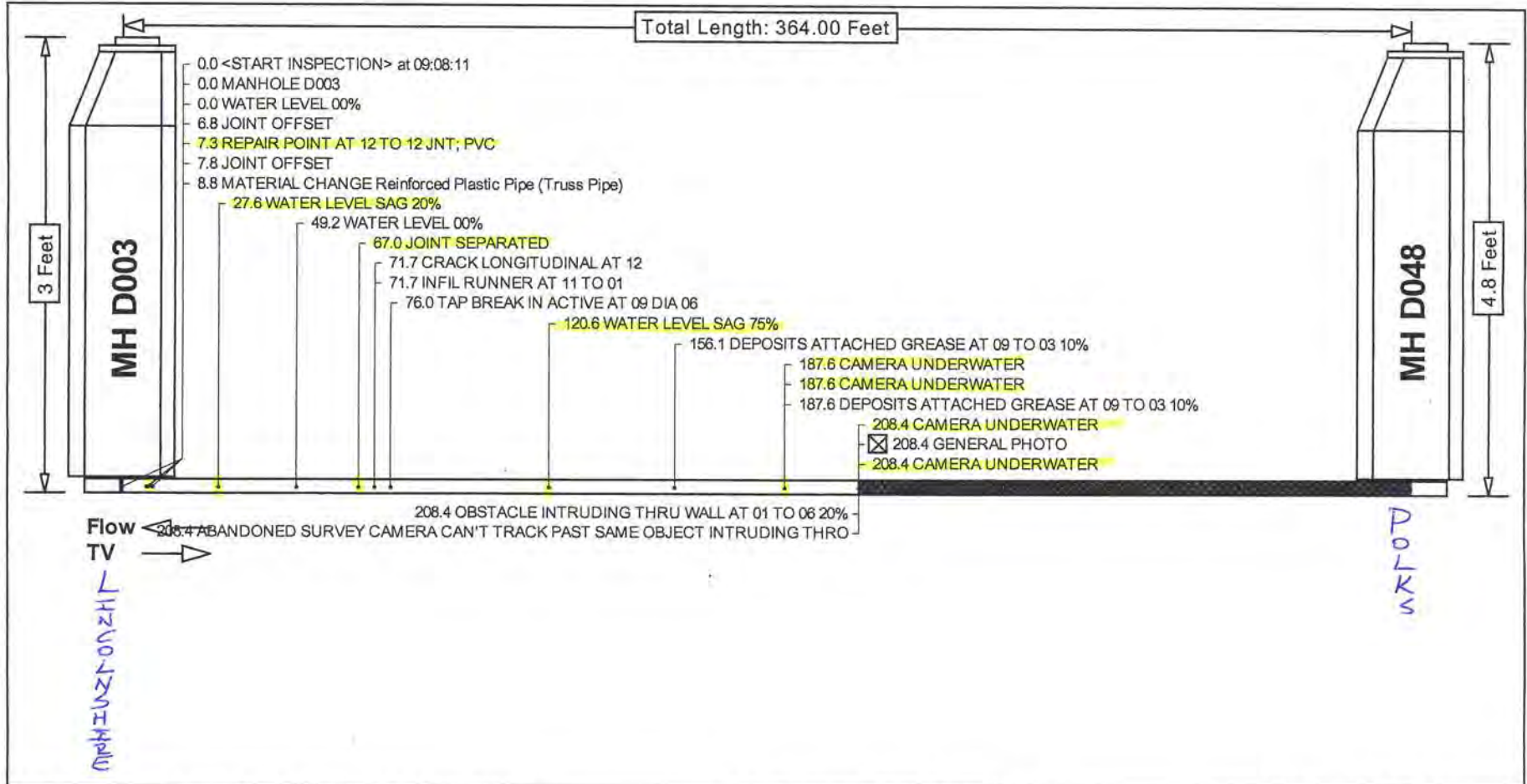


**Street Name and Number:** OLD CANTON RD **City Name:** RIDGELAND, MS  
**MH:** D048 to D003

<b>Certificate No.:</b>	02-574	<b>Material:</b>	RPM
<b>PACP PSR:</b>	D048R	<b>Height:</b>	8
<b>Date:</b>	5/7/2008	<b>Status:</b>	ABAN
<b>Length:</b>	364.00 Feet	<input type="checkbox"/> =Image Attached	
<b>Direction:</b>	Upstream	<input checked="" type="checkbox"/> =Video Clip Attached	
<b>Use:</b>	SS	<input type="checkbox"/> =Uninspected Portion	
<b>Insp/Oper:</b>	CITY OF RIDGELAND, SETH FOY		
<b>Loc Code:</b>	Y		
<b>Media Label/Weather:</b>	8114/1		
<b>Location Details:</b>			

**Cobra Information Management System**  
 © 1998-2007 Cobra Technologies/Optical Robotics, LLC.  
 For Information Call 1-800-443-3761





<b>Street Name and Number:</b> OLD CANTON RD		<b>City Name:</b> RIDGELAND, MS	<b>MH:</b> D003 to D048
<b>Certificate No.:</b>	02-574	<b>Material:</b>	RPM
<b>PACP PSR:</b>	D048R	<b>Height:</b>	8
<b>Date:</b>	5/7/2008	<b>Direction:</b>	Upstream
<b>Length:</b>	364.00 Feet	<b>Use:</b>	SS
<b>Loc Code:</b>	Y	<b>Sys/Sur:</b>	CITY OF RIDGELAND, SETH FOY
<b>Media Label/Weather:</b>	8114/1	<b>Status:</b>	ABAN
<b>Location Details:</b>		Cobra Information Management System © 1998-2007 Cobra Technologies/Optical Robotics, LLC. For Information Call 1-800-443-3761	



# TV Inspection Report

MH D003 to MH D048  
Televised Wednesday, May 7, 2008

<b>PACP PSR</b> D048R	<b>Date</b> 5/7/2008	<b>Time</b> 09:08:12	<b>PO Number</b> 1010	<b>Status</b> ABAN	<b>PreCln</b> J	<b>Clean Date</b>
<b>Street Name and Number</b> OLD CANTON RD					<b>Drainage Area</b>	
<b>City Name</b> RIDGELAND, MS					<b>Loc Code</b> Y	<b>Weather</b> 1
<b>System Owner</b> CITY OF RIDGELAND					<b>IsImperial</b> True	
<b>Surveyed By</b> SETH FOY			<b>Certificate No.</b> 02-574		<b>Survey Customer</b>	
<b>Height</b> 8	<b>Width</b> 0	<b>Material</b> RPM	<b>Shape</b> C	<b>JT Lgth</b> 0	<b>Lining Mthd</b>	<b>Use</b> SS
				<b>Direction</b> Upstream	<b>Flow Ctrl</b> D	<b>Length Insp.</b> 208.40
				<b>Total Length</b> 364.00	<b>Yr Constructed</b> 0	<b>Year Renewed</b> 0
<b>USMH</b> D048 POLK'S DELEGATIVE CENTER				<b>Dwn Dp</b> 4.8	<b>US Grd/Inv</b> 0	<b>US Rim/Grd</b> 0
<b>DWNMH</b> D003 S. 5306 LINCOLNSHIRE BLVD.				<b>Up Dp</b> 3	<b>DS Grd/Inv</b> 0	<b>DS Rim/Grd</b> 0
<b>Media Label</b> 8114				<b>Video Volume</b>		<b>Purpose</b> B
<b>Video File</b> V:\Video\1010 Ridgeland MS\D048R_5_7_2008.mpg				<b>Sheet Number</b> 0		<b>Reverse Setup</b>
<b>Location Details</b>						
<b>Additional Information</b>						
<b>Custom Field One</b>			<b>Custom Field Two</b>			
<b>Custom Field Three</b>			<b>Custom Field Four</b>			
<b>Custom Field Five</b>			<b>Custom Field Six</b>			
<b>Custom Field Seven</b>			<b>Custom Field Eight</b>			
<b>Custom Field Nine</b>			<b>Custom Field Ten</b>			

Footage	C D	Code	Condition	Remarks	JPEG	At	To	Val 1	Val 2	%	Gals	Str	OM
0.0		ST	<START INSPECTION>	09:08:11									
0.0		AMH	MANHOLE	D003									
0.0		MWL	WATER LEVEL 00%							0			
6.8		JOM	JOINT OFFSET									1	
7.3		RPR	REPAIR POINT AT 12 TO 12	JNT; PVC		12	12						
7.8		JOM	JOINT OFFSET									1	
8.8		MMC	MATERIAL CHANGE	Reinforced Plastic Pipe (Truss F )									
27.6		MWLS	WATER LEVEL SAG 20%							20			2
49.2		MWL	WATER LEVEL 00%							0			
67.0		JSM	JOINT SEPARATED									1	
71.7		CL	CRACK LONGITUDINAL AT 12			12						2	
71.7		IR	INFIL RUNNER AT 11 TO 01			11	1						4
76.0		TBA	TAP BREAK IN ACTIVE AT 09 DIA 06			9		6					
120.6		MWLS	WATER LEVEL SAG 75%							75			4
156.1	S01	DAGS	DEPOSITS ATTACHED GREASE AT 09			9	3			10			2
187.6	S02	MCU	CAMERA UNDERWATER										4
187.6	S03	MCU	CAMERA UNDERWATER										4
187.6	F01	DAGS	DEPOSITS ATTACHED GREASE AT 09			9	3			10			2
208.4	F02	MCU	CAMERA UNDERWATER										4
208.4		MGP	GENERAL PHOTO										
208.4	F03	MCU	CAMERA UNDERWATER										4
208.4		OBI	OBSTACLE INTRUDING THRU WALL AT			1	6			20			3



# TV Inspection Report

MH D003 to MH D048  
Televised Wednesday, May 7, 2008

Footage	C D	Code	Condition	Remarks	JPEG	At	To	Dia	Sec	%	Gal	Str	OM
208.4		GO	TOTAL LINE LENGTH 364 FT										
208.4		MSA	ABANDONED SURVEY	09:23:00									

Total Length of Line	364.0
Total Length Inspected	208.4
Total Upstream Footage	208.4
Total Downstream Footage	0.0
Number of Observations	24