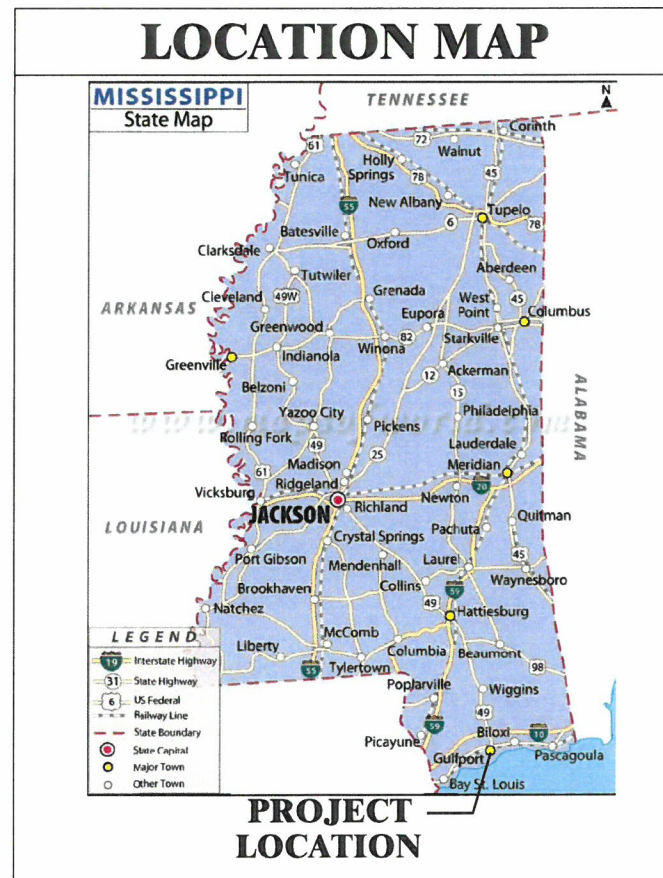
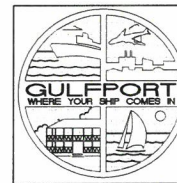


PLANS FOR U.S. HIGHWAY 49 AT 18TH STREET DRAINAGE IMPROVEMENTS GULFPORT, MISSISSIPPI

SEPTEMBER 2020



ENGINEERING DEPARTMENT
4050 HEWES AVENUE
GULFPORT, MS 39507
(228) 868-5815



DIRECTOR OF ENGINEERING
ROBERT K. RIEMANN, P.E.

PERMITS ACQUIRED

MDOH	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
MDEQ	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
MDMR	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
MDOT	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
USACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A

BILLY HEWES,
Mayor

KENNETH L. CASEY, SR., Councilman Ward 1 - RON ROLAND, Councilman Ward 2 - ELLA HOLMES-HINES, Councilwoman Ward 3 - F.B. "RUSTY" WALKER, IV, Councilman Ward 4

MYLES SHARP, Councilman Ward 5 - ROBERT "R. LEE" FLOWERS, Councilman Ward 6 - CARA PUCHEU, Councilwoman Ward 7

SHEET INDEX

DESCRIPTION	WK. NO.	SHEET NO.
TITLE & INDEX	TL-1	1
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EROSION CONTROL PLAN	SP-1 to SP-4	20-23
MISC. DETAILS	DET-1 to DET-11	24-34


RECAPITULATION OF QUANTITIES

BASE BID

ITEM NO.	DESCRIPTION	UNIT	TOTAL
01030-A	KCS Insurance Requirements	LS	1
01030-B	KCS General Requirements	LS	1
01505-A	Mobilization	LS	1
01505-B	Project Sign	EA	1
01720-A	Construction Layout	LS	1
02050-A	Removal of Pavement (All Types and Thicknesses)	SY	805
02050-D	Removal of Sidewalk	SY	25
02050-G	Removal of Fence, All Types and Sizes	LF	590
02050-H	Removal of Obstructions	LS	1
02111-A	Clearing and Grubbing (PM)	ACRE	1.0
02221-A	Select Bedding Material (PM)	CY	585
02221-B	Select Foundation Material (PM)	CY	690
02226-A	Borrow Material, Class B3 (PM)	CY	2,500
02226-B	Excess Excavation (PM)	CY	2,500
02295-A	Silt Fence	LF	3,705
02295-B	Straw Wattles	LF	390
02668-A	72" Steel Casing (Jack and Bored)	LF	120
02668-B	72" Steel Casing (Open Cut)	LF	80
02668-D	16" Steel Split Casing	LF	20
02721-A	Precast Drainage Structure (DN-3, DN-4, DN-5, DN-7, DN-8)	EA	5
02721-B	Precast Drainage Structure (DN-6)	EA	1
02721-C	Class "B" Structural Concrete, Minor Structures	CY	20
02721-D	Reinforcing Steel	LBS	2,087
02721-E	Castings	LBS	1,993
02722-B	60" Reinforced Concrete Pipe, Class III	LF	2,056
02722-C	72" Reinforced Concrete Pipe, Class III	LF	16
02724-A	63" HDPE Fusible Pipe	LF	200
02752-A	Riprap (18" Thick) (200 pounds)	SY	70
02931-B	Plant Establishment (Hydro-Seeding)	ACRE	2.0
02935-A	Maintenance of Traffic	LS	1

ADDITIVE ALTERNATE #1

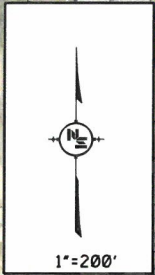
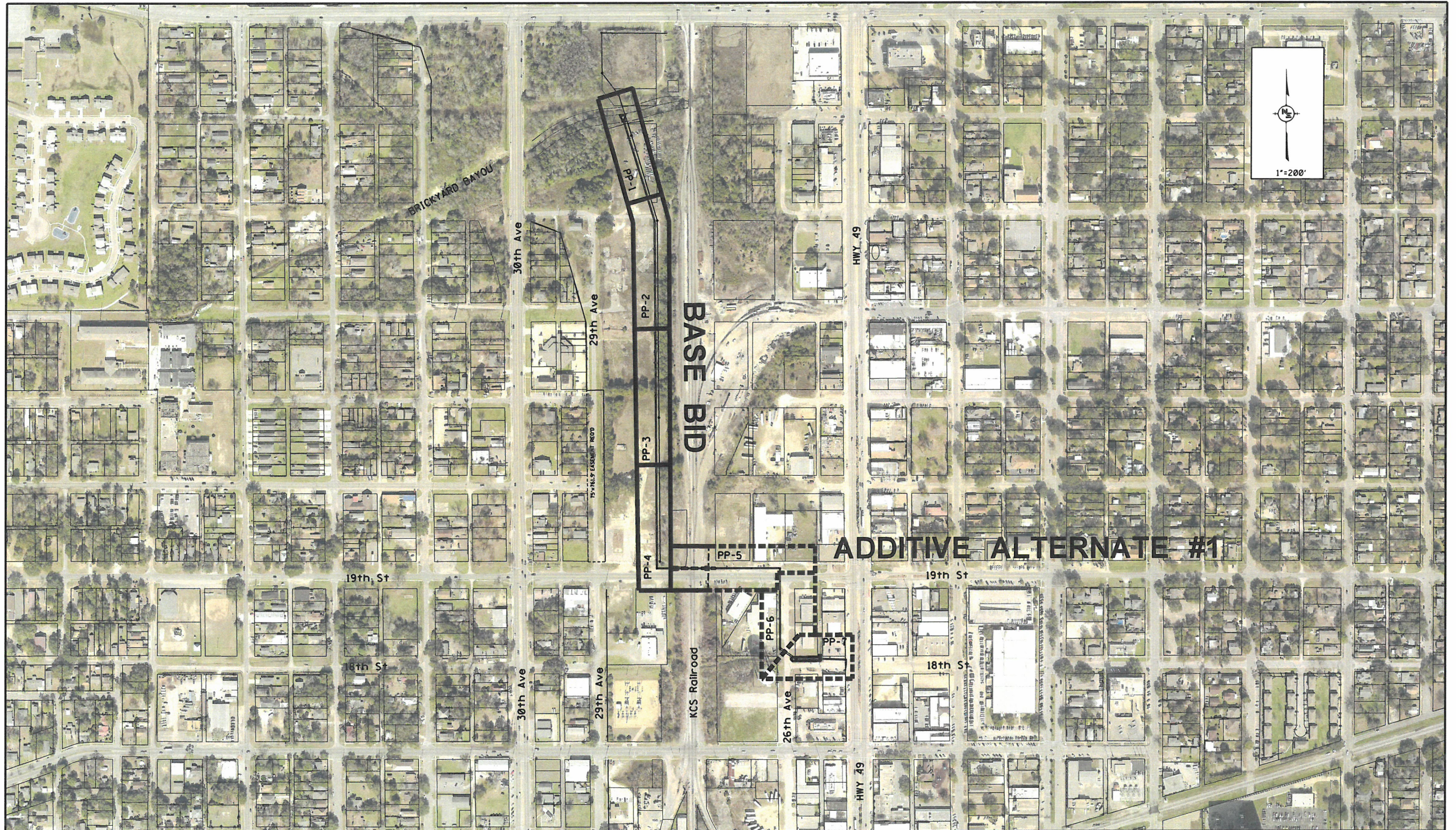
ITEM NO.	DESCRIPTION	UNIT	TOTAL
01505-A	Mobilization	LS	1
01720-A	Construction Layout	LS	1
02050-A	Removal of Pavement (All Types and Thicknesses)	SY	1,130
02050-B	Saw Cut (All Types and Thicknesses)	LF	735
02050-C	Removal of Curb (All Types)	LF	110
02050-D	Removal of Sidewalk	SY	55
02050-E	Removal of Pipe (All Types and Sizes)	LF	320
02050-F	Removal of Drain Inlets, All Types and Sizes	EA	3
02221-A	Select Bedding Material (PM)	CY	280
02221-B	Select Foundation Material (PM)	CY	350
02226-A	Borrow Material, Class B3 (PM)	CY	1,525
02226-B	Excess Excavation (PM)	CY	1,525
02234-A	Crushed Limestone Sub-base for Cuts in the Street R-O-W (FM)	CY	60
02234-B	Limestone Granular Base Course for Driveways (FM)	CY	20
02295-A	Silt Fence	LF	630
02295-B	Straw Wattles	LF	165
02512-A	Asphalt Pavement, MT, (9.5 mm mix)	TON	145
02512-B	Asphalt Pavement, MT, (12.5 mm mix)	TON	80
02521-A	Concrete Curb and Gutter	LF	65
02521-B	Header Curb	LF	110
02522-A	Concrete Sidewalk	SY	55
02522-B	Concrete Driveway	SY	80
02522-C	Detectable / Tactile Warning Surface Tiles	SF	16
02581-A	Thermoplastic Traffic Markings	LS	1
02668-D	16" Steel Split Casing	LF	20
02721-A	Precast Drainage Structure (DN-9)	EA	1
02721-B	Precast Drainage Structure (DN-10)	EA	1
02721-C	Class "B" Structural Concrete, Minor Structures	CY	53
02721-D	Reinforcing Steel	LBS	8,930
02721-E	Castings	LBS	919
02721-F	Gratings	LBS	1,653
02722-A	18" Reinforced Concrete Pipe, Class III	LF	48
02722-B	60" Reinforced Concrete Pipe, Class III	LF	632
02722-D	73"X45" Reinforced Concrete Arch Pipe, Class III	LF	296
02931-A	Plant Establishment - Solid Sod	SY	1,095
02931-B	Plant Establishment (Hydro-Seeding)	ACRE	0.5
02935-A	Maintenance of Traffic	LS	1

<p>NOTICE TO DRAWING HOLDER</p> <p>NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> <th colspan="2">DRAWING INFORMATION</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th colspan="2">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS			DRAWING INFORMATION		NO.	DATE	BY	DESCRIPTION																																																				<p>DRAINAGE IMPROVEMENTS ON 18TH STREET AT US49 TO BRICKYARD BAYOU</p> <p>CITY OF GULFPORT GULFPORT, MISSISSIPPI</p>		<p>SUMMARY OF QUANTITIES</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">WORKING NUMBER:</td> <td style="border: none;">DRAWING NUMBER:</td> </tr> <tr> <td style="border: none; text-align: center;">SQ-01</td> <td style="border: none; text-align: center;">05</td> </tr> </table>	WORKING NUMBER:	DRAWING NUMBER:	SQ-01	05
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WK. SH. NO.	STATION TO STATION		ID NO.	TYPE	PIPE CULVERT													END SECTIONS (Enter Sizes)										SIZE			REMARKS	
					63"	18	24	30	36	42	48	60	72	36x23	44x27	73x45	15	18	24	30	18X11	22X13	44X27	65X40	4X10 BOX	L	W	H				
PP-1	1+33		1	HW-1																									---	---	---	
PP-1	1+33	1+54		RCP										16															---	---	---	
PP-1	1+54		2	JB																									9.50	5.17	11.48	
PP-1	1+54	6+05		RCP									449																---	---	---	
PP-2	6+05		3	PRECAST																									---	---	---	
PP-2	6+05	11+00		RCP									492																---	---	---	
PP-3	11+00		4	PRECAST																									---	---	---	
PP-3	11+00	16+00		RCP									497																---	---	---	
PP-3	16+00		5	PRECAST																									---	---	---	
PP-4	16+00	21+48		RCP									543																---	---	---	
PP-4	21+48		6	PRECAST																									---	---	---	
PP-5	21+48	22+07		RCP									56																---	---	---	
PP-5	22+07		7	PRECAST																									---	---	---	
PP-5	22+07	24+11		HDPE	200																								---	---	---	
PP-5	24+11		8	PRECAST																									---	---	---	
PP-5	24+11	25+68		RCP									158																---	---	---	
PP-5	25+68		9	PRECAST																									---	---	---	
PP-5	25+68	26+95		RCP									120																---	---	---	
PP-5	26+95		10	PRECAST																									---	---	---	
PP-6	26+95	30+48		RCP									348																---	---	---	
PP-6	30+48		11	JB																									9.17	13.17	8.21	
PP-6	30+48	31+39		RCAP										81															---	---	---	
PP-7	31+39		12	DBL PI																									13.17	5.67	7.41	
PP-7	31+39	32+40		RCAP											94														---	---	---	
PP-7	32+40		13	DBL PI																									9.75	5.67	7.53	
PP-7	32+40	33+64		RCP											120														---	---	---	
PP-7	33+64		14	JB																									12.16	5.67	10.13	
PP-7	33+59	33+64		RCP			45																						---	---	---	
PP-7	33+59		15	SS-2																									10.00	3.00	4.81	
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UNITS					L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	
TOTALS					200	45	0	0	0	0	0	0	2663	16	0	0	295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED DRAINAGE CALCULATIONS ARE FOR PLANNING PURPOSES ONLY
 CONTRACTOR TO VERIFY ALL VALUES PRIOR TO CONSTRUCTION.

NOTICE TO DRAWING HOLDER <small>NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.</small>		<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th>DRAWING INFORMATION</th> </tr> <tr> <th>NO.</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		REVISIONS			DRAWING INFORMATION	NO.	DATE	BY	DESCRIPTION																	DRAINAGE IMPROVEMENTS ON 18TH STREET AT US49 TO BRICKYARD BAYOU CITY OF GULFPORT GULFPORT, MISSISSIPPI				NEEL-SCHAFFER <i>Solutions you can build upon</i>					ESTIMATED DRAINAGE ITEMS WORKING NUMBER: EQ-2 DRAWING NUMBER: 07		
REVISIONS			DRAWING INFORMATION																																				
NO.	DATE	BY	DESCRIPTION																																				



BASE BID

ADDITIVE ALTERNATE #1

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REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	
				N-S PROJECT NO.: 11940
				FILENAME: LAYOUT.DGN
				SCALE: 1"=200'
				SURVEYED BY: NA
				DSGN: JLD DATE: 9/2018
				DRWN: JTD DATE: 9/2018
				CHKD: DLS DATE: 9/2018
				QA/QC: DLS DATE: 9/2018

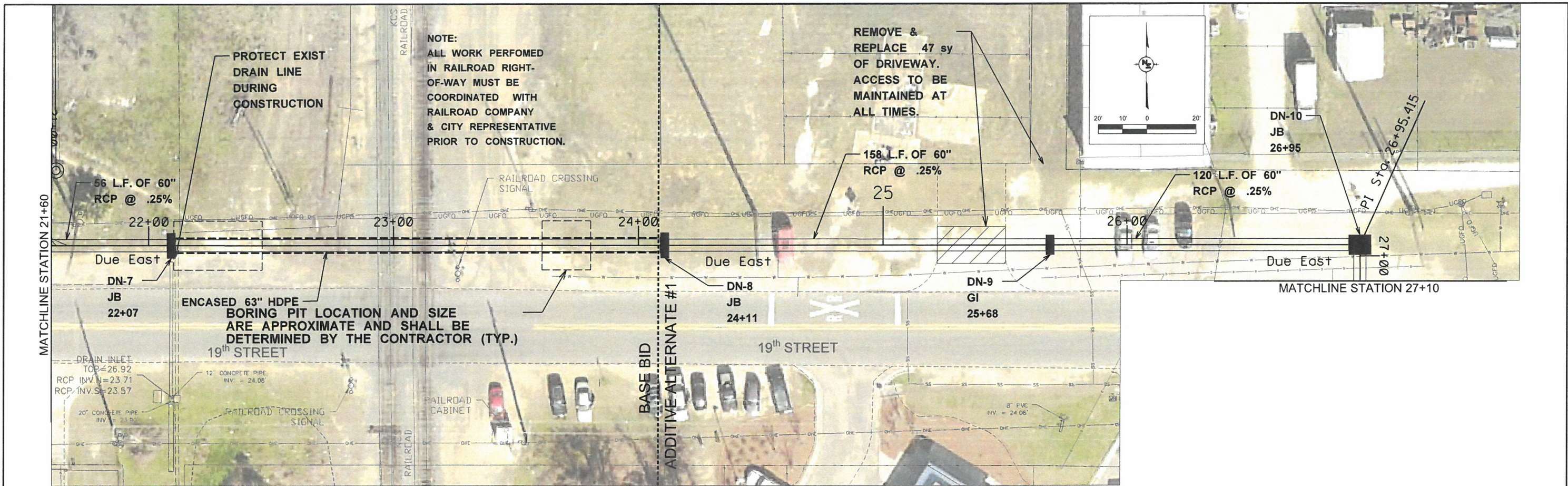
**DRAINAGE IMPROVEMENTS ON
18TH STREET AT US49
TO BRICKYARD BAYOU**

CITY OF GULFPORT
HARRISON COUNTY, MISSISSIPPI

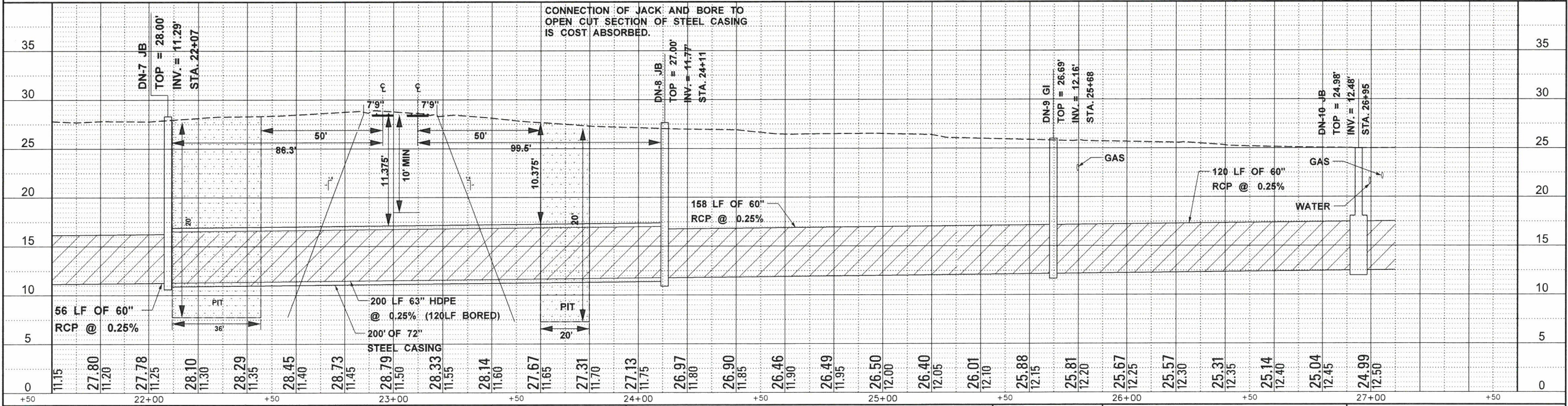


**PHASE
LAYOUT**

WORKING NUMBER: LY-01	DRAWING NUMBER: 08
--------------------------	-----------------------



1"=20' HORIZ. 1"=5' VERT. (FULL SIZE)



REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	

N-S PROJECT NO.: 00.14470.00	
FILENAME:	
SCALE:	
SURVEYED BY:	
DSGN: JLD	DATE:
DRAWN: JLD	DATE:
CHKD: JLD	DATE:
QA/QC:	DATE:

**DRAINAGE IMPROVEMENTS ON
18TH STREET AT US49
TO BRICKYARD BAYOU**

CITY OF GULFPORT
GULFPORT, MISSISSIPPI

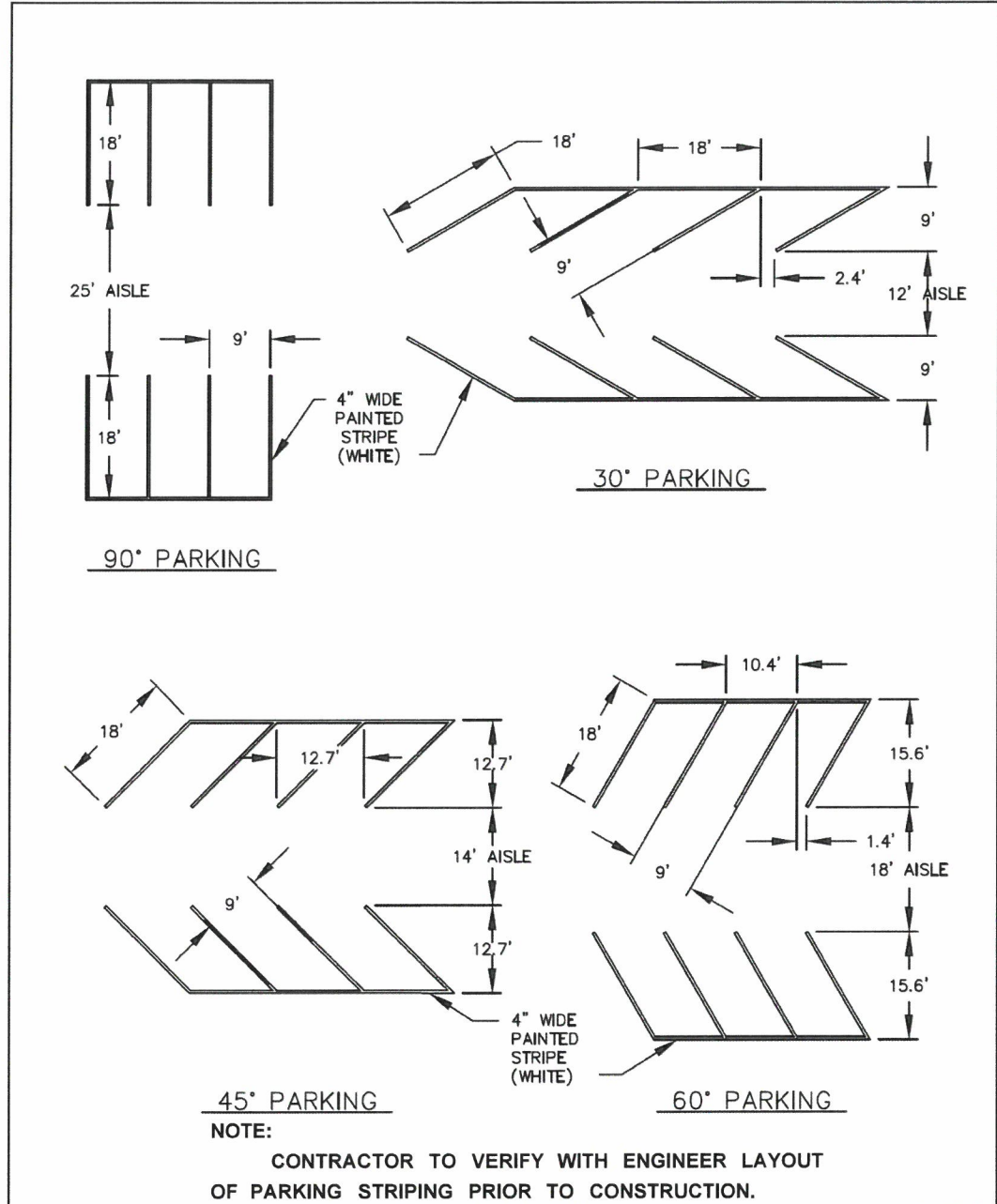


**BRICKYARD BAYOU
PLAN & PROFILE STA.
21+60 TO STA. 27+10**

WORKING NUMBER: PP-5	DRAWING NUMBER: 16
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NOTICE TO DRAWING HOLDER

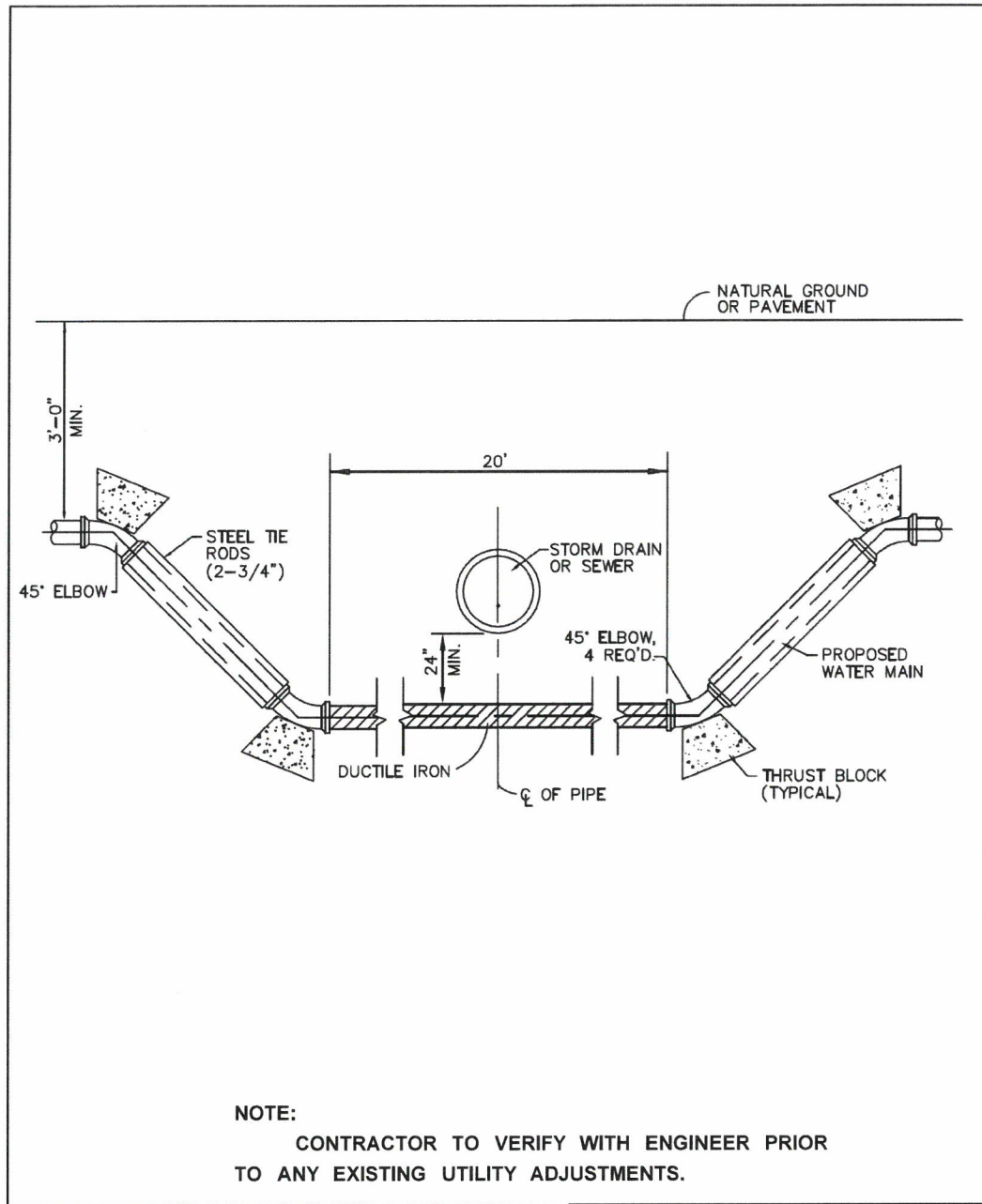
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45° PARKING
NOTE:
 CONTRACTOR TO VERIFY WITH ENGINEER LAYOUT OF PARKING STRIPING PRIOR TO CONSTRUCTION.

STANDARD PARKING DETAIL				
DATE	APPR. BY	REVISION	DATE	BY
2/15/01	BCM			
SCALE: 1"=20'	DR. NO.: 02580			
DR. BY: SJ	FILE: PARK			

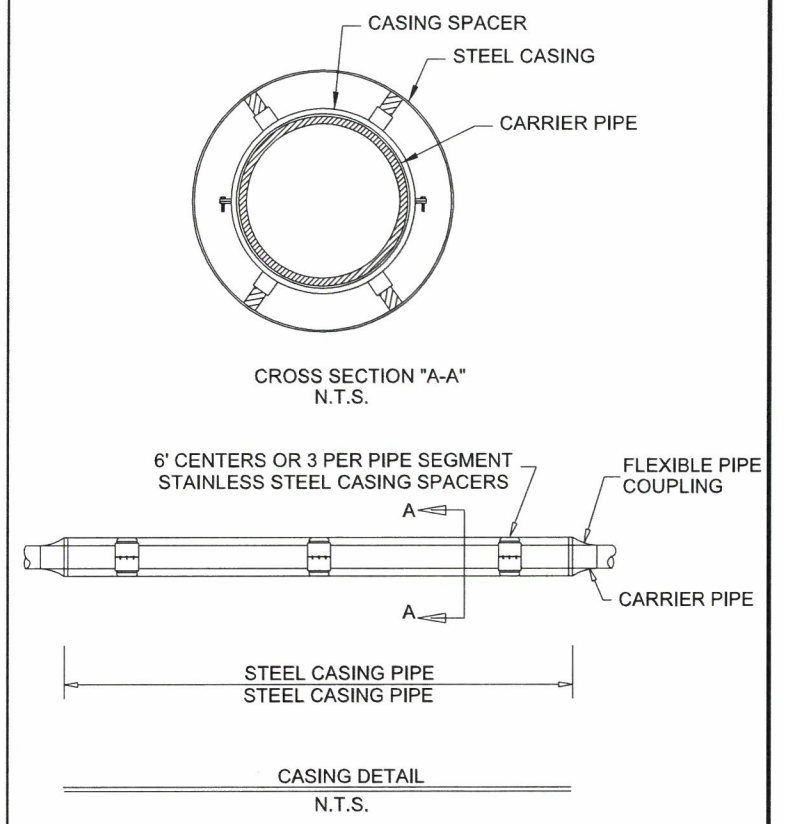
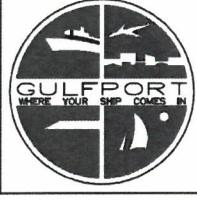
CITY OF GULFPORT
 STANDARD CONSTRUCTION DETAILS



NOTE:
 CONTRACTOR TO VERIFY WITH ENGINEER PRIOR TO ANY EXISTING UTILITY ADJUSTMENTS.

WATER MAIN ADJUSTMENT				
DATE	APPR. BY	REVISION	DATE	BY
1/10/94	BCM			
SCALE: N.T.S.	DR. NO.: 02660	ADDED THRUST BLOCKS AND STEEL TIE RODS	5/15/00	SJ
DR. BY:	FILE: WTRADJUST			

CITY OF GULFPORT
 STANDARD CONSTRUCTION DETAILS



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DRAINAGE IMPROVEMENTS ON 18TH STREET AT US49 TO BRICKYARD BAYOU
 CITY OF GULFPORT
 GULFPORT, MISSISSIPPI



MISCELLANEOUS DETAILS	
WORKING NUMBER:	DRAWING NUMBER:
DET-8	31