

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: BR 2B23(118)

CONTROL: 1122-01-033

COUNTY: KARNES

LETTING: 06/28/2023

REFERENCE NO: 0619

**PROPOSAL ADDENDUMS**

- \_ PROPOSAL COVER  
X BID INSERTS (SH. NO.: ALL )  
\_ GENERAL NOTES (SH. NO.: )  
X SPEC LIST (SH. NO.: 1, 2, 3 )  
X SPECIAL PROVISIONS:  
ADDED:

DELETED: 666---007

- X SPECIAL SPECIFICATIONS:  
ADDED:

DELETED: 6038

- X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

\*\*\*\*\* BID INSERTS \*\*\*\*\*

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:  
104-6010, 432-6033

DELETED THE FOLLOWING BID ITEMS:  
439-6013, 446-6028, 446-6024, 662-6111, 672-6009, 678-6001  
6038-6001, 6038-6014

\*\*\*\*\* SPEC LIST \*\*\*\*\*

SHEET 1: REMOVED ITEMS 439, 446, 662, 672, 678

SHEET 2: REMOVED SP 666---007 & SS 6038

SHEET 3: REMOVED SHEET

\*\*\*\*\* PLAN SHEETS \*\*\*\*\*

SHEET 1 (TITLE SHEET): ADDED SHEET 40A TO INDEX  
DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 5 (ESTIMATE & QUANTITY): REVISED FOR ABOVE ITEMS

SHEET 7 (SUMMARY OF REPAIRS (NBI 161290112201001): REVISED FOR ABOVE ITEMS

SHEET 9 (BRIDGE REPAIR LAYOUT (NBI 161290112201002): REVISED CALL OUTS

SHEET 10 (SUMMARY OF REPAIRS (NBI 161290112201002): REVISED FOR ABOVE  
ITEMS

SHEET 11 (BRIDGE REPAIR LAYOUT (NBI 161290112201003): REVISED CALL OUTS

SHEET 12 (SUMMARY OF REPAIRS (NBI 161290112201003): REVISED FOR ABOVE  
ITEMS

SHEET 13 (QUANTITY SUMMARY): REVISED FOR ABOVE ITEMS

SHEET 40A (PILE ENCASMENT DETAILS): ADDED SHEET

CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		1

# STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

## PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT NO. BR 2B23 (118)

### FM 791 KARNES COUNTY

CSJ: 1122-01-033

NET LENGTH OF ROADWAY = 0.00 FT. = 0.000 MI.  
NET LENGTH OF BRIDGE = 409.00 FT. = 0.077 MI.  
NET LENGTH OF PROJECT = 409.00 FT. = 0.077 MI.

LIMITS: FM 791 @ DRAW, SAN ANTONIO RIVER, AND SCARED DOG CREEK

FOR THE CONSTRUCTION OF BRIDGE MAINTENANCE

CONSISTING OF CONCRETE RIPRAP REPAIR, REGRADING, CLEANING AND SEALING EXISTING  
BRIDGE JOINTS, SEALING CONCRETE CRACKS, AND STONE RIPRAP PROTECTION

DESIGN SPEED - 70PH

PM- PREVENTATIVE MAINTENANCE  
NO RAS REVIEW REQUIRED  
RURAL PRINCIPAL ARTERIAL

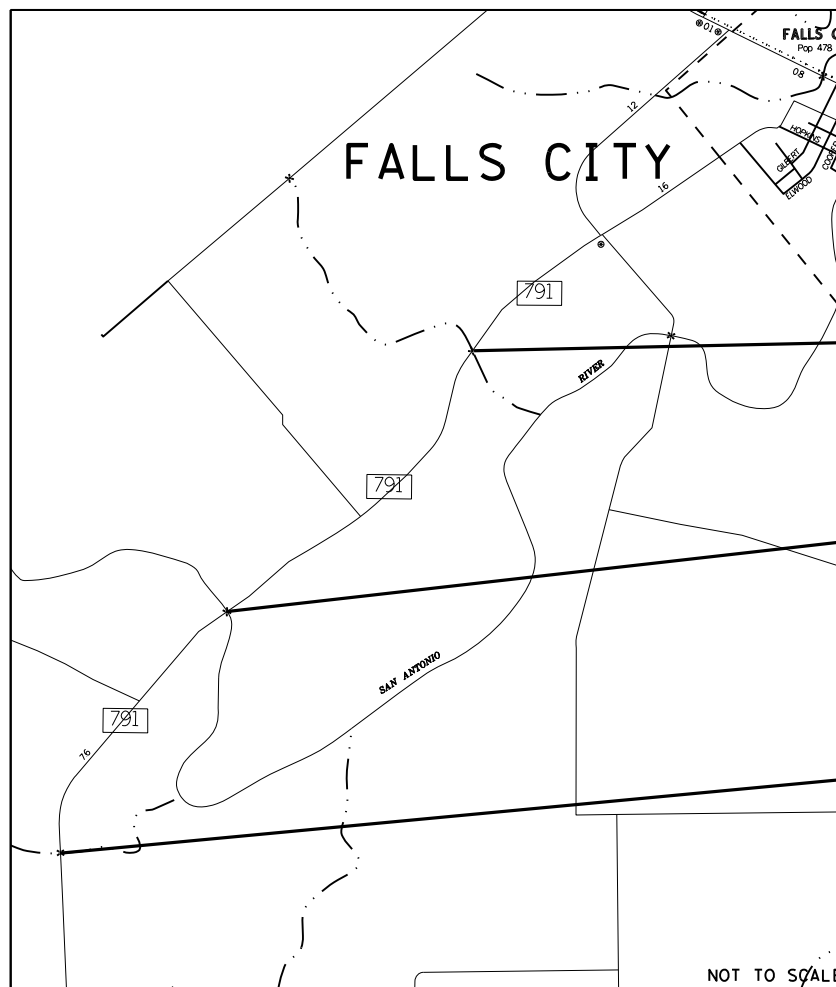
### INDEX OF SHEETS

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  - 12 SUMMARY OF REPAIRS (NBI:161290112201003)
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**PROJECT LOCATION**  
CSJ: 1122-01-033  
FM 791 AT DRAW  
NBI: 160130010008099  
BEGIN STA: 124+33.25  
END STA: 124+66.75

**PROJECT LOCATION**  
CSJ: 1122-01-033  
FM 791 AT SAN ANTONIO CREEK  
NBI: 161290112201002  
BEGIN STA: 205+22.25  
END STA: 208+33.75

**PROJECT LOCATION**  
CSJ: 1122-01-033  
FM 791 AT SCARED DOG CREEK  
NBI: 161290112201003  
BEGIN STA: 277+00  
END STA: 277+75



APPROVED FOR LETTING: 6/16/2023

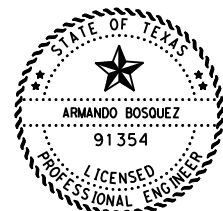
DocuSigned by:  
*Valente Olivarz*  
303F64E8A9B44E0...  
DISTRICT ENGINEER

RECOMMENDED FOR LETTING: 6/16/2023

DocuSigned by:  
*Paula Sales-Evans, P.E.*  
5975459A18CC425...  
DISTRICT DIRECTOR OF TRANSPORTATION  
PLANNING AND DEVELOPMENT

EXCEPTIONS: NONE  
EQUATIONS: NONE  
RAILROAD CROSSINGS: NONE

1 Revised 6/16/2023



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED WITH A " \* " HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

DocuSigned by:  
*Armando Bosquez, P.E.* 6/16/2023  
NAME: CC13362472... DATE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012)

DATE: 6/16/2023 11:05:54 AM  
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COUNTY: KARNES  
HWY: US 181  
PROJ. NO.  
LET DATE:



CONTROLLING PROJECT ID 1122-01-033

DISTRICT Corpus Christi  
HIGHWAY FM 791


COUNTY Karnes

# Estimate & Quantity Sheet

ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL
	104-6010	REMOVING CONC (RIPRAP)	CY	30.000	
	132-6005	EMBANKMENT (FINAL)(ORD COMP)(TY C)	CY	200.000	
	401-6001	FLOWABLE BACKFILL	CY	10.000	
	420-6070	CL C CONC (PILE ENCASEMENT)	CY	15.000	
	429-6007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	36.000	
	429-6009	CONC STR REPAIR (STANDARD)	SF	20.000	
	432-6033	RIPRAP (STONE PROTECTION)(18 IN)	CY	180.000	
	438-6001	CLEANING AND SEALING EXISTING JOINTS	LF	48.000	
	480-6001	CLEAN EXIST CULVERTS	EA	1.000	
	500-6001	MOBILIZATION	LS	1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	4.000	
	752-6005	TREE REMOVAL (4" - 12" DIA)	EA	4.000	
	752-6015	TREE AND BRUSH REMOVAL	AC	0.350	
	780-6002	CNC CRACK REPAIR (DISCRETE)(INJECT)	LF	4.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	41.000	
	6185-6002	TMA (STATIONARY)	DAY	34.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000	


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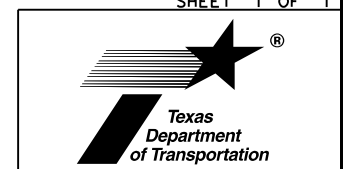
DWG: CKS DWG: CKS

SUMMARY OF REPAIRS (FM 791 @ DRAW)						
REPAIR NO.	ITEM	BID ITEM DESCRIPTION	UNIT	QUANTITY	REPAIR DESCRIPTION/ LOCATOR	DETAILS/ NOTES
01	0132 6005	EMBANKMENT (FINAL) (ORD COMP) (TY C)	CY	20	FILL IN EROSION HOLE IN NE DITCH BEFORE CONCRETE RIPRAP	
02	0401 6001	FLOWABLE BACKFILL	CY	10	FILL UNDERMINING VOIDS IN NE CORNER RIPRAP	
03	0429 6009	CONC STR REPAIR (STANDARD)	SF	20	REPAIR CRACKS FOUND IN NE & SE SEDIMENTS BASIN WALLS	REFER TO TXDOT CONCRETE REPAIR MANUAL 
04	0432 6033	RIPRAP (STONE PROTECTION) (18 IN)	CY	30	PLACE ALONG UPSTREAM AND DOWNSTREAM TOEWALLS	SEE STONE RIPRAP DETAILS SHEET
05	0480 6001	CLEAN EXIST CULVERTS	EA	1	REMOVE DEBRIS BUILDUP ON UPSTREAM SIDE OF CULVERT	SEE CLEANING AND SEALING EXISTING BRIDGE JOINTS SHEET
06	0752 6005	TREE REMOVAL (4" - 12" DIA)	EA	4	REMOVE TREES FROM EROSION DITCH IN NE CORNER	

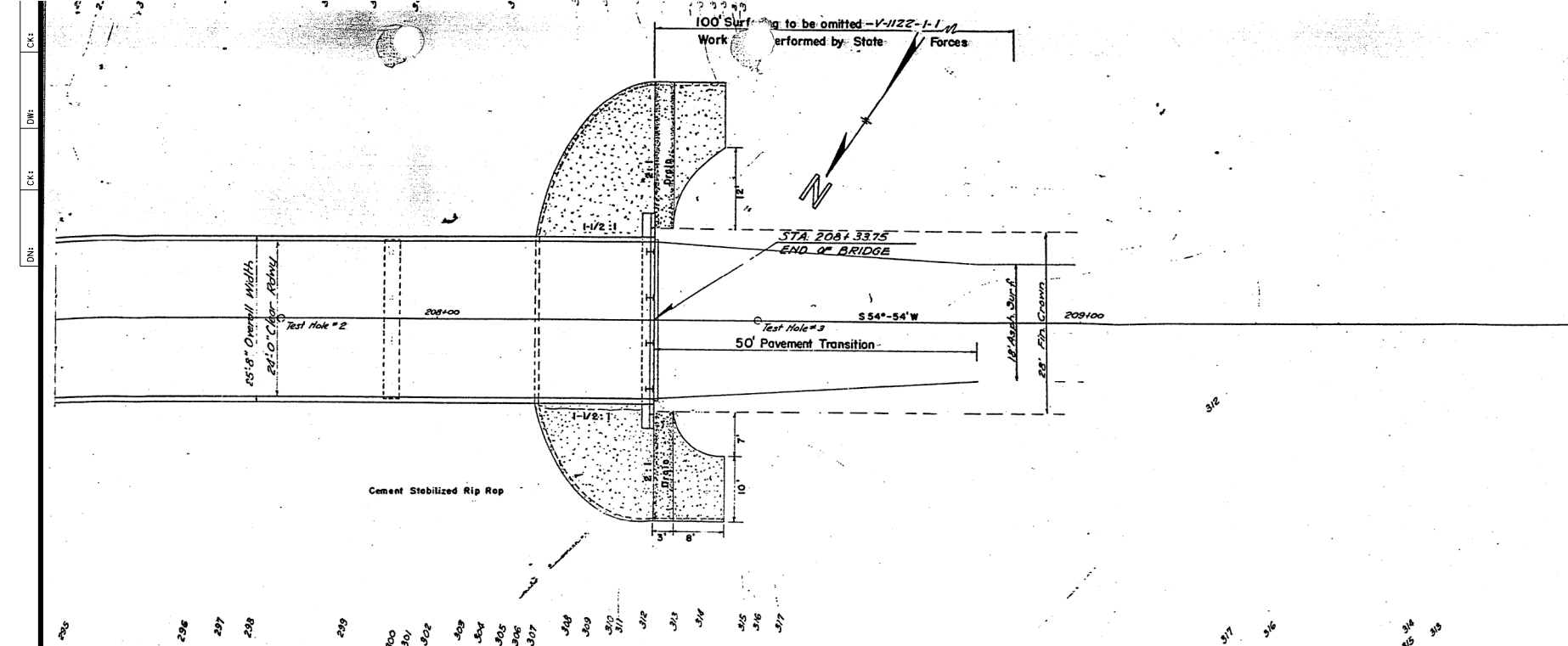
**SUMMARY OF REPAIRS**  
**FM 791**  
**DRAW**  
**161290112201001**

SHEET 1 OF 1

 **REVISED**  
 06/16/2023



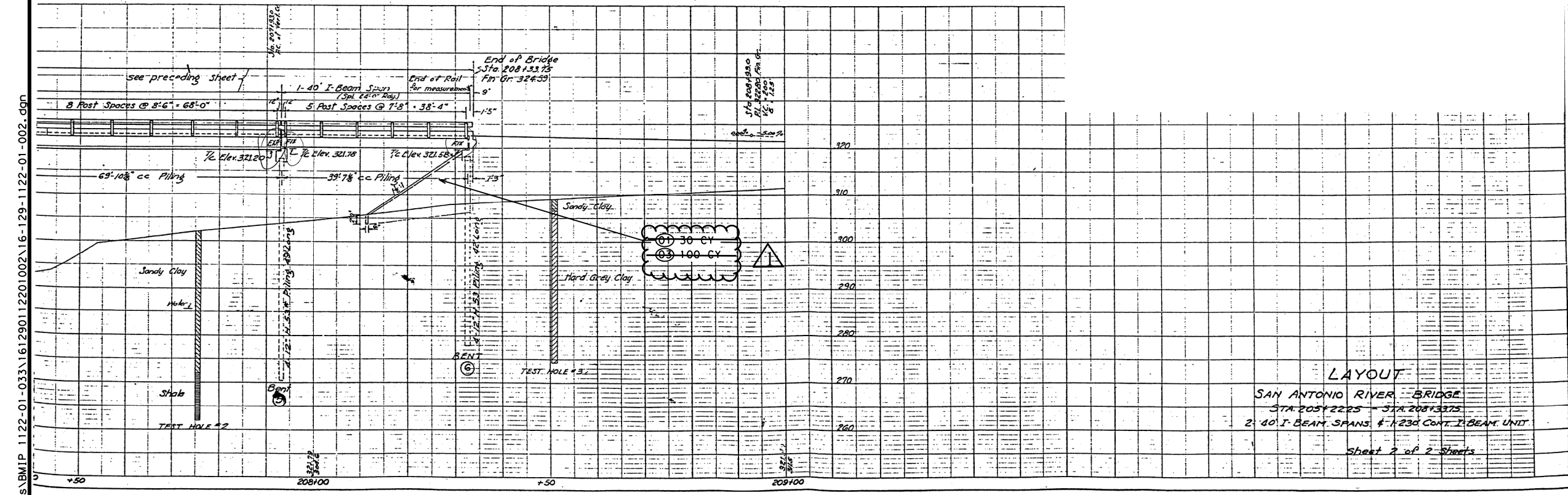
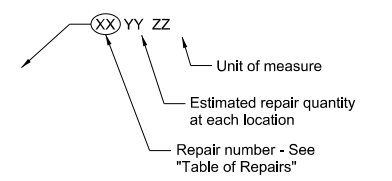
CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		7



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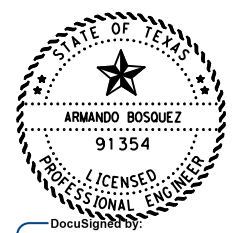
- GENERAL NOTES
1. Layout, stations, and elevations shown are based on as-built plans. Copies of available portions of as-built plans may be provided upon request.
  2. Repair locations and quantities are based on Field Survey dated (06/2022). Current conditions may vary. Field verify locations and extent of repairs in the presence of the Engineer prior to ordering materials.
  3. See stone riprap detail sheet for repair ③

REPAIR CALL-OUT LEGEND



LAYOUT  
 SAN ANTONIO RIVER BRIDGE  
 STA. 205+225 - STA. 208+33.75  
 2-40' I-BEAM SPANS #1-230 CONT. I-BEAM UNIT.  
 Sheet 2 of 2 Sheets

\* PREP AND PAINT STEEL STRUCTURE AT EACH BENT CAP AND 5' IN HEACH DIRECTION. SPOT PREP AND PAINT FAILED PAINT AND VISABLE RUST AREAS IN MIDDLE OF SPANS.

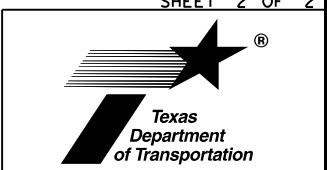


DocuSigned by:  
 Armando Bosquez  
 B8B23CC12382472

BRIDGE REPAIR LAYOUT

FM 791  
 SAN ANTONIO RIVER  
 161290112201002

SHEET 2 OF 2



CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		9

REVISD  
 06/16/2023

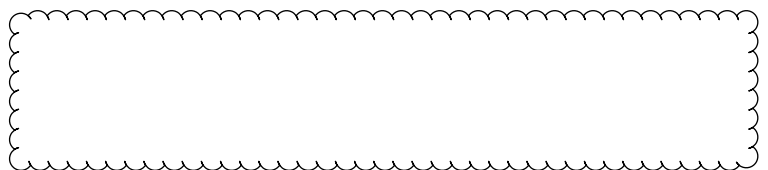
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SUMMARY OF REPAIRS (FM 791 @ SAN ANTONIO RIVER)

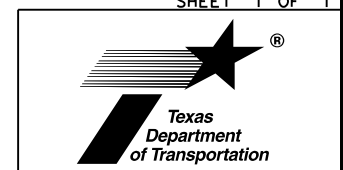
REPAIR NO.	ITEM	BID ITEM DESCRIPTION	UNIT	QUANTITY	REPAIR DESCRIPTION/ LOCATOR	DETAILS/ NOTES
①	0104 6010	REMOVING CONC (RIPRAP)	CY	30	REMOVE FAILED CONCRETE RIPRAP ON SW ABUTMENT	
②	0132 6005	EMBANKMENT (FINAL) ( ORD COMP) ( TY C)	CY	80	FILL EROSION BEHIND NE WINGWALL AND GULLEYS ON EMBANKMENT	
③	0432 6033	RIPRAP (STONE PROTECION) (18 IN)	CY	40	PLACE ALONG CHANNEL SCOUR & REPLACE BROKEN WEST CONC RIPRAP	
④	0439 6013	MULTI LAYER POLYMER OVERLAY	SY	1103	REPAIR RUTTING AND FLUSHING ON PAVEMENT	
⑤	0446 6028	SPOT CLEAN & PAINT EXT STR(SPL PRT SPOT CLEAN & PAINT EXT STR(SPL PRT SYS)	LS	1	CLEAN AND PREP SURFACE FROM RUST AND FAILED PAINT ON EXISTING STRUCTURE FOR PAINT AS SHOWN IN LAYOUT	
⑥	0446 6024	CLEAN & PAINT EXIST PILING (SYSTEM II)	LS	0.5	CLEAN AND PREP SURFACE FROM RUST AND FAILED PAINT ON EXISTING PILES FOR PAINT	
⑦	0752 6015	TREE AND BRUSH REMOVAL	AC	0.25	REMOVE TREE AND BRUSH ALONG EMBANKMENTS	



**SUMMARY OF REPAIRS**

**FM 791**  
**SAN ANTONIO RIVER**  
**161290112201002**

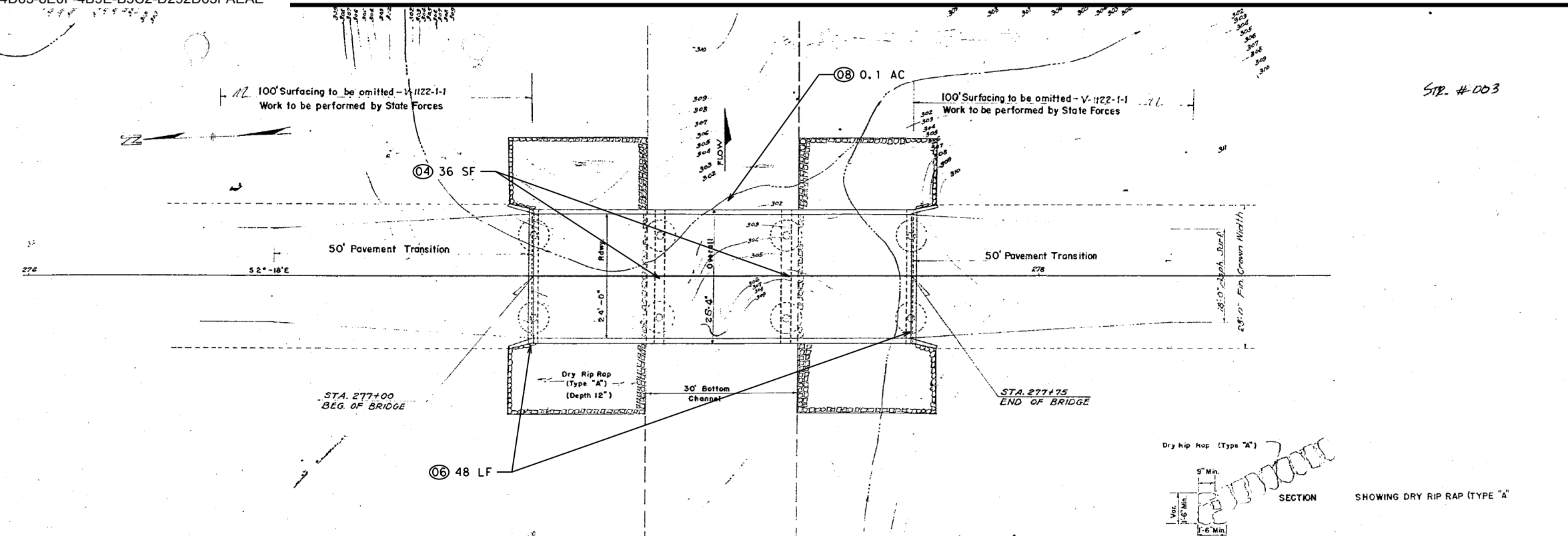
SHEET 1 OF 1



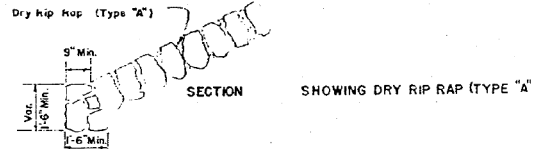
**REVISED ON**  
**06/16/2023**

CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		10

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 DNE  
 CKE  
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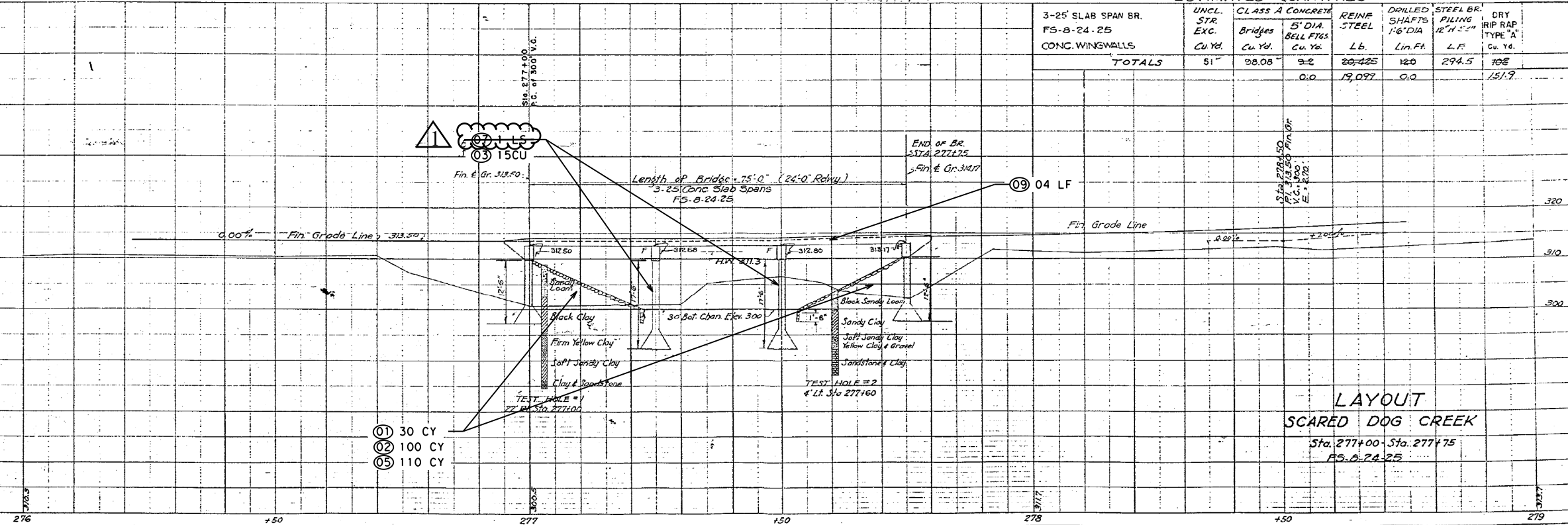


STR. #003



ESTIMATED QUANTITIES

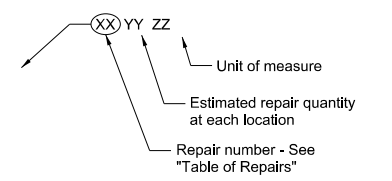
3-25' SLAB SPAN BR. FS-B-24-25 CONC. WINGWALLS	UNCL. STR. EXC. Cu Yd.	CLASS A CONCRETE		REIN. STEEL Lb.	DRILLED SHAFTS 1/2" DIA Lin. Ft.	STEEL BR. PILING 12" H x 2" W L.F.	DRY RIP RAP TYPE "A" Cu Yd.
		Bridges Cu Yd.	5' DIA BELL FTGS Cu Yd.				
TOTALS	51	98.08	9.2	20,425	120	294.5	108
			0.0	19,097	0.0		151.7



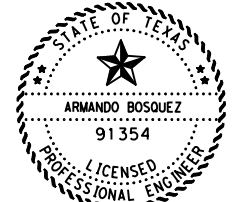
LAYOUT  
SCARED DOG CREEK  
Sta. 277+00 - Sta. 277+75  
FS-B-24-25

- GENERAL NOTES
- Layout, stations, and elevations shown are based on as-built plans. Copies of available portions of as-built plans may be provided upon request.
  - Repair locations and quantities are based on Field Survey dated (06/2022). Current conditions may vary. Field verify locations and extent of repairs in the presence of the Engineer prior to ordering materials.
  - See stone riprap detail sheet for repair 03

REPAIR CALL-OUT LEGEND



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DocuSigned by:  
Armando Bosquez  
4/27/2023

**BRIDGE REPAIR LAYOUT**

**FM 791**

**SCARED DOG CREEK  
161290112201003**

SHEET 1 OF 1



CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		11

REVISED  
06/16/2023



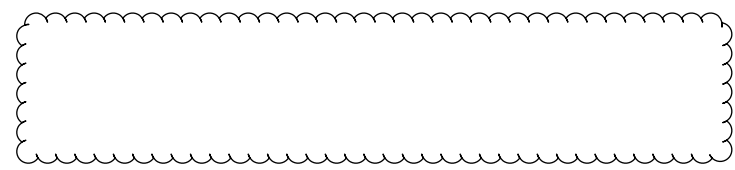
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SUMMARY OF REPAIRS (FM 791 @ SCARED DOG CREEK)

REPAIR NO.	ITEM	BID ITEM DESCRIPTION	UNIT	QUANTITY	REPAIR DESCRIPTION/ LOCATOR	DETAILS/ NOTES
01	0104 6010	REMOVING CONC (RIPRAP)	CY	30	REMOVE FAILED CONCRETE RIPRAP ALONG BOTH EMBANKMENTS	
02	0132 6005	EMBANKMENT (FINAL) (ORD COMP) (TY C)	CY	100	REGRADE FAILED EMBANKMENT ALONG BOTH SIDES OF CREEK	
03	0420 6070	CL C CONC (PILE ENCASEMENT)	CY	15	PILE ENCASEMENT FOR THE EXPOSED CORRODED STEEL PILES	REFER TO PILE ECASEMENT DETAIL SHEET
04	0429 6007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	36	REPAIR CONCRETE SPALLS ON COLUMNS, BENT CAPS, AND ABUTMENTS	REFER TO TXDOT CONCRETE REPAIR MANUAL
05	0432 6033	RIPRAP (STONE PROTECION) (18 IN)	CY	110	PLACE STONE RIPRAP ALONG BOTH NORTH & SOUTH EMBANKMENTS	
06	0438 6001	CLEANING AND SEALING EXISTING JOINTS	LF	48	CLEAN AND SEAL ALL PAVED OVER EXPANSION JOINTS	SEE CLEANING AND SEALING EXISTING BRIDGE JOINTS SHEET
<del>07</del>	<del>0446 6024</del>	<del>CLEAN AND PAINT EXIST PILING (SYSTEM II)</del>	<del>LS</del>	<del>1</del>	<del>CLEAN AND PAINT LOWER PORTIONS OF STEEL PILES</del>	
08	0752 6015	TREE AND BRUSH REMOVAL	AC	0.1	REMOVE TREES AND BRUSH OVERGROWN ALONG CHANNEL	
09	0780 6003	CNC CRACK REPAIR (DISCREETE) (INJECT)	LF	4	REPAIR CRACKS ON CONCRETE CURBS & DECK EDGES AT SUPPORTS	REFER TO TXDOT CONCRETE REPAIR MANUAL

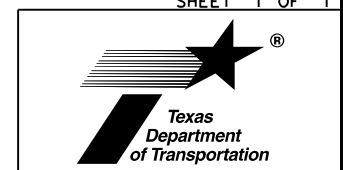
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**SUMMARY OF REPAIRS**

**FM 791  
 SCARED DOG CREEK  
 161290112201003**

SHEET 1 OF 1



1 REVISED  
 06/16/2023

CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		12


DWG:   
 CHK:   
 DWF:   
 CKE:

PROJECT QUANTITY SUMMARY				
ITEM ID.	ITEM	BID ITEM DESCRIPTION	UNIT	QUANTITY
01	0104 6010	REMOVING CONC (RIPRAP)	CY	30
02	0132 6005	EMBANKMENT (FINAL) (ORD COMP) (TY C)	CY	200
03	0401 6001	FLOWABLE BACKFILL	CY	10
04	0420 6070	CL C CONC (PILE ENCASEMENT)	CY	15
05	0429 6007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	36
06	0429 6009	CONC STR REPAIR (STANDARD)	SF	20
07	0432 6033	RIPRAP (STONE PROTECION) (18 IN)	CY	180
08	0438 6001	CLEANING AND SEALING EXISTING JOINTS	LF	48
09	0439 6013	MULTI-LAYER POLYMER OVERLAY	SY	1103
10	0446 6028	SPOT CLEAN & PAINT EXT STR(SPL PRT SPOT CLEAN & PAINT EXT STR(SPL PRT SYS)	LS	1
11	0446 6024	CLEAN & PAINT EXIST PILING (SYSTEM II)	LS	1
12	0480 6001	CLEAN EXIST CULVERTS	EA	1
13	0752 6005	TREE REMOVAL (4" - 12" DIA)	EA	4
14	0752 6015	TREE AND BRUSH REMOVAL	AC	0.35
15	0780 6003	CNC CRACK REPAIR (DISCRETE) (INJECT)	LF	4

PAVEMENT MARKINGS					
LOCATION	6038	6038	0672	0678	0662
	6001	6014	6009	6001	6111
	MULTIPOLYMER PAV MRK (W) (4") (SLD)	MULTIPOLYMER PAV MRK (Y) (4") (SLB)	REFL PAV MRKR TY II -A-A	PAV SURF PREP FOR MRK (4")	WK ZN PAV MRK SHT TERM (TAB) TY Y-2
	LF	LF	EA	LF	EA
FM 791 @ SAN ANTONIO RIVER	623	623	8	1246	32
PROJECT TOTAL:	623	623	8	1246	32

**QUANTITY SUMMARY**

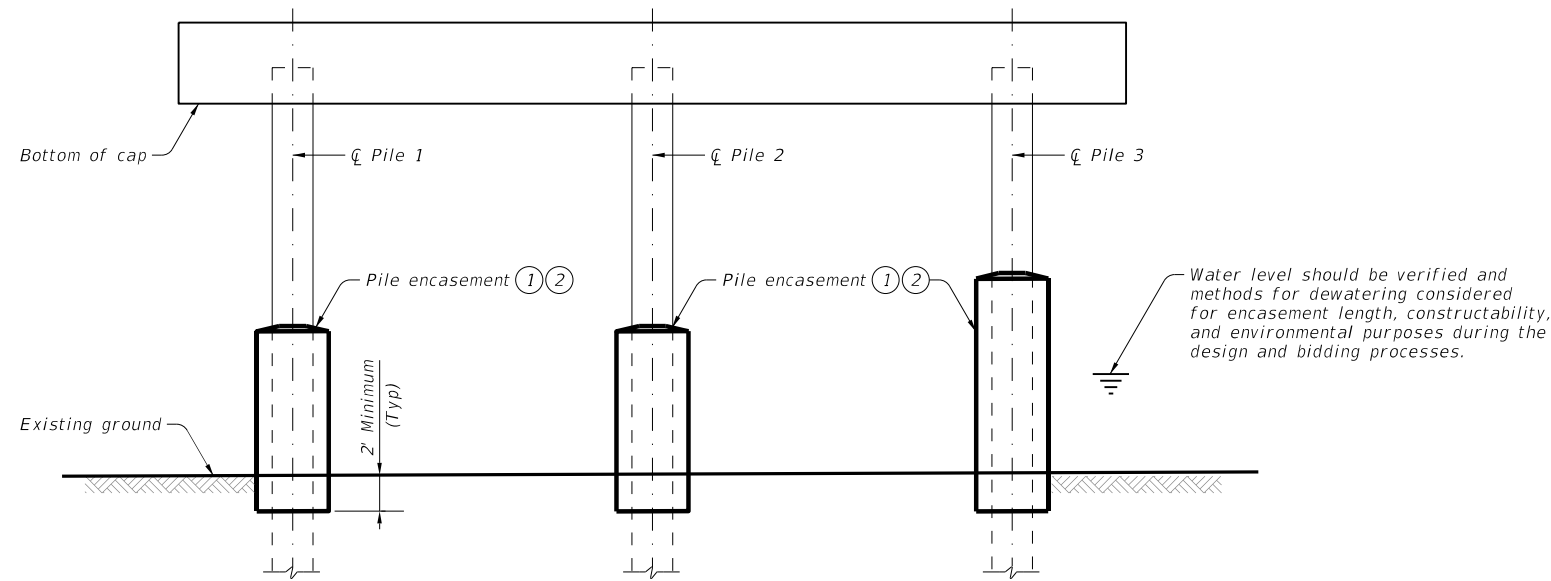
SHEET 1 OF 1



CONT	SECT	JOB	HIGHWAY
1122	01	033	FM 791
DIST	COUNTY		SHEET NO.
CRP	KARNES		13

REVIS<sup>1</sup> 06/16/2023

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**TYPICAL BENT ELEVATION**  
(Looking upstation)

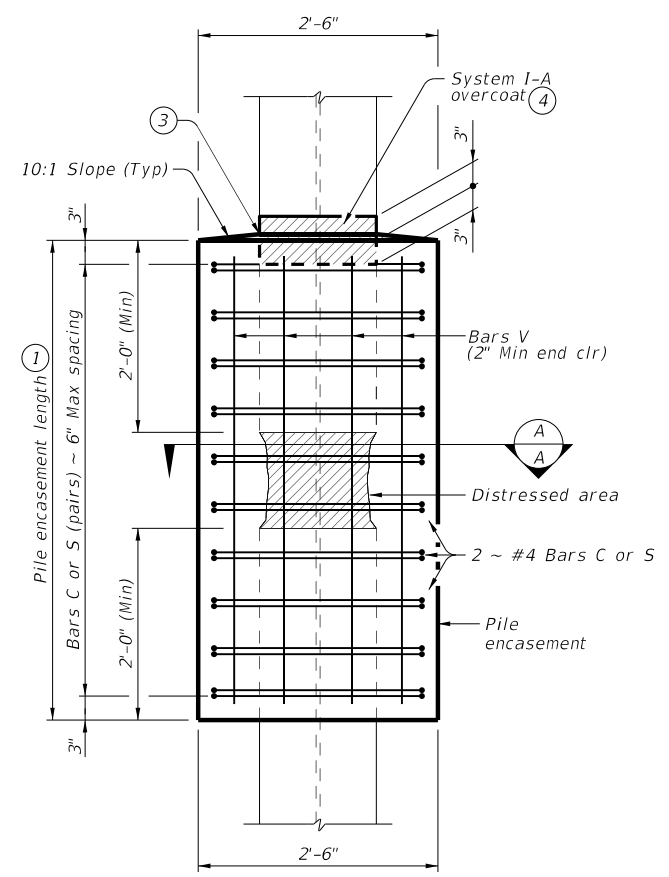
Bent	Pile	Length of Pile Encasement (ft)	Bent Total (ft)
2	1	5	25'-4"
	2	5	
	3	5	
3	1	8	25'-4"
	2	8	
	3	8	
Total			50'-8"

**NOTE TO DESIGNER:**  
This sheet is to be used as a guide for retrofitting existing structures with deteriorated piles. Details with appropriate notes from this guide should be prepared for specific application. The intent of these details is not to increase or provide additional capacity to retrofitted pilings, but rather as a preventative measure to protect existing pilings from further deterioration. Notes and details related to painting are optional and should be removed if painting is not necessary. This sheet may not be used without modification. The details shown may need to be amended if the exact existing conditions are not covered. In all cases, details and notes not required must be crossed out or eliminated, and the phrase "Not to be used as a standard" must be removed. Sheet must be signed and sealed.

- PILE ENCASEMENT PROCEDURE:**
- 1) Verify channel line elevations and report to the Engineer for possible adjustments.
  - 2) Submit a concrete mix design and procedures for casting the encasements for approval.
  - 3) Clean mud, grease, loose rust, and paint off the section of H-piling to be encased with hand tools and high pressure water.
  - 4) Place and secure the steel reinforcement and install formwork.
  - 5) Place the concrete in the encasement per approved procedures and in accordance with Item 420, "Concrete Substructures."
  - 6) Leave forms in-place for at least 48 hours.

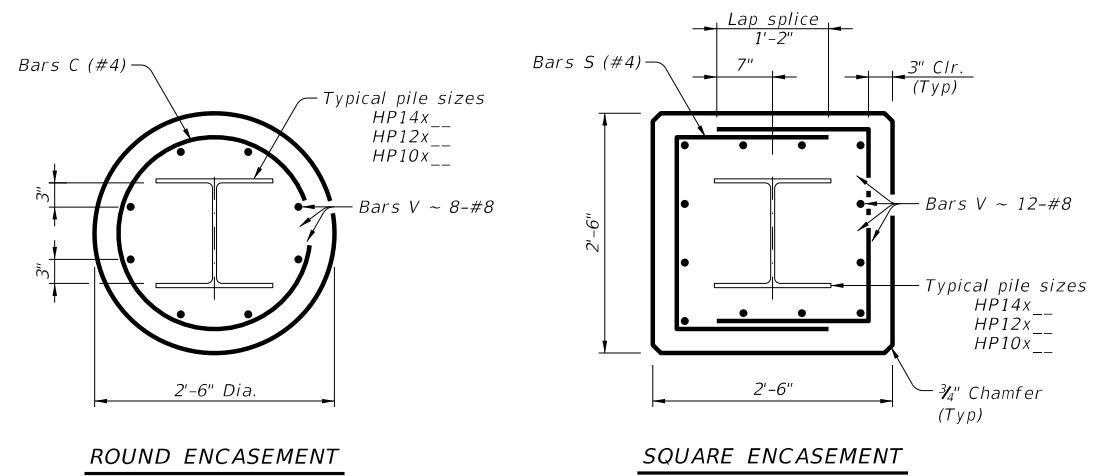
- PAINTING NOTES:**
- 1) Clean the area to be painted with hand tools and high pressure water blasting.
  - 2) Apply a minimum of 4.0 mils DFT coating conforming to DMS-8105 as shown.
  - 3) Allow coating to cure a minimum of 24 hours prior to placing concrete.

- GENERAL NOTES:**
- Verify dimensions for steel H-piling encasements and ground elevations. Pile Encasement Length may be adjusted by the Engineer based on actual channel and ground line elevations.
  - Existing conditions may be under water. Contractor is responsible for dewatering. Payment for dewatering is subsidiary to Item 420, "Concrete Substructures." The Contractor may submit a plan that adequately demonstrates the ability to perform the repairs without dewatering to the Engineer for approval. If approved, dewatering may be waived.
  - Obtain approval for the mix design and the construction procedures before beginning work.
  - If underwater placement is approved, concrete mix should be designed for underwater placement and may require the use of anti-washout admixtures.
  - Provide concrete for the H-piling encasement capable of attaining an average concrete compressive strength of 3,000 psi within 24 hours and consisting of coarse aggregate grades not greater than No. 5 (3/4"). Provide a concrete mix with 2 gallons of corrosion inhibitor per CY.
  - Pile encasement will be paid for per the unit bid price for each linear foot of encasement, per Item 420, "Concrete Substructures." Payment for collars is subsidiary to Item 420, "Concrete Substructures."
  - Provide Grade 60 reinforcing steel.

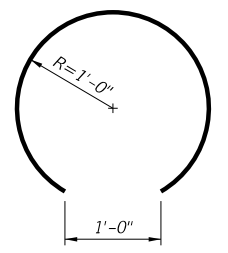


**ELEVATION OF PILE ENCASEMENT**

- 1) See Table of Pile Encasement Lengths.
- 2) Field adjust encasement length based on actual conditions.
- 3) Seal gap with Class 4 or Class 7 joint sealant (DMS-6310).
- 4) Apply System I-A overcoat (or alternate coating system, as specified) per Item 446, "Field Cleaning and Painting Steel" to an area covering 3" above and 3" below the top of concrete encasement as shown. Refer to Painting Notes for more information. Payment for this work is subsidiary to Item 420, "Concrete Substructures."

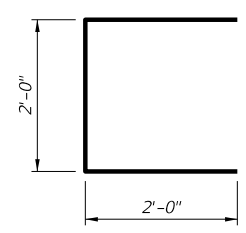


**SECTION A-A**

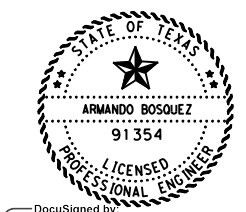


**BAR C (#4)**

Arrange Bar C pairs to provide 1'-0" opening on opposite faces:



**BAR S (#4)**



DocuSigned by:  
**Armando Bosquez, P.E.**  
6/16/2023

		<b>Bridge Division</b>	
<h2>PILE ENCASEMENT DETAILS</h2>			
<b>NBI: 16-129-1122-01-003</b>			
FILE: WD-PED-22.dgn	DN:	CK:	DW:
August 2022	CONT:	SECT:	HIGHWAY:
112201	033	FM	791
DIST:	COUNTY:	SHEET NO.	
CRP	KARNES	40-A	