ADDENDUM 3 TO BID DOCUMENTS FOR THE

SHORELINE PROTECTION NAVIGATIONAL AIDS PROJECT (PO-0022, PO-0072, & PO-0030)

ORLEANS PARISH AND ST. BERNARD PARISH, LA

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

May 31, 2023

ADDENDUM 3 TO BID DOCUMENTS

SHORELINE PROTECTION
NAVIGATIONAL AIDS PROJECT
(PO-0022, PO-0072, & PO-0030)

ORLEANS PARISH AND ST. BERNARD PARISH, LA

The interpretations, corrections, or changes in this addendum supersede the requirements in the Bid Documents dated February 2023 and stamped and sealed by the Engineer of Record on April 26, 2023.

Bidders shall acknowledge receipt of this addendum in the Louisiana Uniform Public Work Bid Form.

I. Questions and Responses:

1. Under the new bid schedule on Addendum No. 2 dated 5/16/23, can you please confirm the quantity of ref no. 11? should it be 150 lf instead of 50 lf since ref no. 12 has a quantity of (3) dayboards requiring a 50' piling for each?

   The quantity on the bid schedule for ref no. 11 is correct, only one 50' timber pile is to be installed for Alternate No. 2. There are already two existing timber piles at the Project Site to which dayboards are to be mounted for Alternate No. 2.

2. Page 8, Detail 1, does not display enough details on the Ladder Brackets that fasten to the ladder. Two of the leaders on the lower brackets on Detail , have no information. Can you provide more detail ?

   The ladder shown on the Plans is not to be fastened to the ladder brackets or braces. The ladder is already in the possession of CPRA and will only be brought to the site temporarily to perform future maintenance or repairs. Only the brackets (Detail 2) and braces (Detail 5 and Section C) are to be installed on each timber pile as part of the base bid.

3. When will CPRA provide the ladders for the contractor to install the brackets?

   The ladder is not required for the performance of this Work and is shown on the Plans for informational purposes only. Thus it will not be provided.

4. Will the CPRA provide an approved route to traverse the private oyster beds on the construction site or will CPRA provide a Hold-Harmless Agreement regarding liability associated with those oyster beds?

   The contractor is responsible for accessing the project site without disturbance to oyster leases. The included figures (Attachment A) show the oyster leases in the vicinity of the PO-30 project.

II. Pre-bid Presentation

A copy of the pre-bid presentation may be found in Attachment B of this Addendum.

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Attachment A

Oyster Leases in Vicinity of PO-30
N
Lake Borgne
P17
P18
P19
Mississippi River Gulf Outlet
0
0.125
0.5 Miles

Oyster Leases in Vicinity of PO-30
N
Lake Borgne
Mississippi River Gulf Outlet
P17
P18
P19
0
0.5
1
2 Miles

Attachment B

Shoreline Protection Navigational Aids Project (PO-0022, PO-0072 & PO-0030)

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PRE-BID MEETING
May 24, 2023

Conference Line Phone Number:
(215)446-3657 (or via Zoom audio)

Conference Code:
815635

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INTRODUCTIONS

- Connor Hannan, E.I. Construction Manager – CPRA
- Taylor Chassaignac, P.E. O&M Manager – CPRA
- Barry Richard, P.E. O&M Manager - CPRA
- Mark Accardo, E.I. O&M Manager - CPRA

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Project Information

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CH1

Project Overview Map

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Slide 4

CH1 Connor Hannan, 5/23/2023

Project Information
Regulatory

- Federal and State permits that are required to perform the Work have been secured by the owner.
- Contractor is responsible for obtaining any additional permits which may be needed to complete the Work.
- See GP-2 of the Bid Documents for Requirements.

Project Information

Maintenance project to install or replace navigation aids for PO-0022, PO-0072, and PO-0030 projects

SUMMARY OF ESTIMATED QUANTITIES		
BASE BID - BAYOU CHEVEE (PO-0022)	**UNIT**	**QUANTITY**
MOBILIZATION / DEMOBILIZATION	LS	1
TIMBER PILES	LF	750
DAYBOARDS	EA	15
MARINE LANTERNS	EA	15
LADDER APPURTENANCES	EA	15
ALTERNATE NO. 1 - BILOXI MARSH SHORELINE PROTECTION (PO-0072)		
MOBILIZATION / DEMOBILIZATION	LS	1
TIMBER PILE	LF	50
DAYBOARD	EA	1
MARINE LANTERN	EA	1
ALTERNATE NO. 2 - LAKE BORGNE SHORELINE PROTECTION (PO-0030)		
MOBILIZATION / DEMOBILIZATION	LS	1
TIMBER PILE	LF	50
DAYBOARDS	EA	3

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Project Information

Land Rights

- Project Site is located in Lakes Pontchartrain & Borgne, State Water Bodies.
- Project site is accessible only by boat.
- No work is anticipated within 500 feet of any known pipeline.

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Bid Submittal Requirements

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- Completed Louisiana Uniform Public Work Bid Form and Unit Price Forms (May be found in Addendum No. 2.
- Completed Bid Bond & Power of Attorney
- Full details are included in the Instructions to bidders within the Bid Documents

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Contractor Bid Document Questions

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ALL QUESTIONS MUST BE SUBMITTED IN WRITING.

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Contractor Bid Document Questions

Due by 2:00 pm (CST) on May 31st, 2023

Via email: cpra.bidding@la.gov

Attn: Sharissa Felder

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CONTRACTOR BIDS

Due by 2:00 pm (CST) on Wednesday, June 7, 2023

<u>Hand Delivery</u>
Coastal Protection and Restoration Authority
150 Terrace Ave.
Baton Rouge, LA 70802

<u>Registered or Certified Delivery</u>
Coastal Protection and Restoration Authority
P.O. Box 44027
Baton Rouge, LA 70804-4027

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Site Visit

- It is the responsibility of all potential bidders to visit the job site to assess the location, logistics and site conditions prior to bidding.

Contractor Requirements Overview

- Davis-Bacon Act Compliance
  - A copy of General Decision Number: LA20230005 may be downloaded at the following: https://sam.gov/wage-determination/LA20230005/3.
- Progress Schedule (GP-9)
- Daily Progress Reports and Progress Meetings (GP-10 and GP-13)
- As-Built Drawings (GP-55)
- Contract time/period of performance
  - 30 days for Base Bid, an additional 10 days for Additive Alternate No. 1, and an additional 10 days for Additive Alternate No. 2(Instructions to Bidders)

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Base Bid Layout – PO-0022

PILING LOCATION TABLE

POINT #	LATITUDE	LONGITUDE
P1	N30° 06' 33.31"	W89° 50' 46.43"
P2	N30° 06' 26.17"	W89° 50' 41.98"
P3	N30° 06' 19.33"	W89° 50' 34.80"
P4	N30° 06' 14.92"	W89° 50' 25.81"
P5	N30° 06' 10.57"	W89° 50' 21.77"
P6	N30° 06' 05.51"	W89° 50' 22.61"
P7	N30° 06' 05.08"	W89° 50' 21.87"
P8	N30° 06' 06.04"	W89° 50' 18.78"
P9	N30° 06' 00.51"	W89° 50' 16.50"
P10	N30° 05' 57.54"	W89° 50' 14.18"
P11	N30° 05' 53.63"	W89° 50' 07.09"
P12	N30° 05' 49.04"	W89° 50' 00.52"
P13	N30° 05' 47.09"	W89° 49' 53.91"
P14	N30° 05' 47.21"	W89° 49' 44.37"
P15	N30° 05' 49.02"	W89° 49' 35.18"

NAVIGATIONAL AID

BY	DESCRIPTION	DATE	REV

COASTAL PROTECTION AND RESTORATION AUTHORITY
2045 LAKESHORE DR. CERM SUITE 309
NEW ORLEANS, LA 70122

D PLAN VIEW

DESIGNED BY: CH
APPROVED BY: BR
DRAWN BY: CH

STATE PROJECT Nos. PO-0022, PO-0072, & PO-0030

E: FEB 2023

SHEET 3

Base Bid Work

- Install 15 Timber Piles (50 LF each) (TS-200)
- Install 15 Dayboards (TS-300)
- Install 15 Marine Lanterns (TS-300)
- Install ladder appurtenances for each pile (TS-500)

Base Bid Hardware

DAY BOARD ELEVATION (NTS)

DAYBOARD DETAIL

NOTES:

1. PERMANENT WARNING SIGNS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT ENGINEER. APPROXIMATE LOCATIONS OF THE TIMBER PILES SUPPORTING THE WARNING SIGNS ARE SHOWN ON SHEET 3.
2. THE 2" BORDER ON THE WARNING SIGN WILL BE A RETROREFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A RETROREFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS IN ACCORDANCE WITH 33 CFR 330.4 (a) (1).4
3. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
4. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.15 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, 2016 EDITION.
5. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, 2016 EDITION. PILES SHALL BE TREATED WITH A WATER BORNE ACA OR CCA PRESERVATIVE WITH 2.5 PCF RETENTION.
6. TIMBER PILING SHALL BE 50-FEET IN LENGTH WITH A MIN. 12-INCH DIAMETER BUTT AND MIN. 7-INCH DIAMETER AT THE TIP.
7. EXPOSED BOLT THREADS SHALL BE EITHER TACK WELDED TO NUTS, STRIPPED, OR DAMAGED BY OTHER APPROVED METHOD TO PREVENT EASY REMOVAL.
8. ALL FILM LETTERS AND BORDERS SHALL BE USCG COMPLIANT.

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Alternate #1 (PO-0072) Layout

LOCATION TABLE		
POINT #	LATITUDE	LONGITUDE
P16	29°55'37.01"N	89°35'1.74"W

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Alternate Bid #1 Work

- Install one timber pile (50-LF) (TS-200)
- Install one Dayboard for (TS-300)
- Install one Marine Lantern (TS-300)

Alternate 1# Hardware

ALTERNATE NO. 1 DETAILS

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Alternate #2 (PO-0030) Layout

NOTE: POINT # P17 HAS EXISTING PILE, REQUIRES INSTALLATION OF NEW DANGER SIGN. POINT # P18 HAS EXISTING PILE AND SIGN, SIGN IS TO BE REPLACED WITH NEW SIGN. POINT # P19 REQUIRES INSTALLATION OF NEW 50' TIMBER PILE AND DAYBOARD. ELEVATION OF NEW PILE AND SIGN AT POINT P19 TO MATCH EXISTING ELEVATIONS OF PILE BUTT AND SIGN AT POINT P18.

LOCATION TABLE

POINT #	LATITUDE	LONGITUDE
P17	29°56'49.7"N	89°50'27.2"W
P18	29°56'46.2"N	89°50'23.6"W
P19	29°56'34.5"N	89°50'14.8"W

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Alternate Bid #2 Work

- Install one timber pile (50-LF) (TS-200)
- Install 3 Dayboards for PO-0030 (TS-300)

Alternate #2 Hardware

ALTERNATE NO. 2 DETAILS

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Addendum #2

- Please note that all bids should be submitted using the Louisiana Uniform Public Work Bid Form and Unit Price Form found in Addendum No. 2.
- **Do not** use the Louisiana Uniform Public Work Bid Form found in the posted Specifications as It is missing information.

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Questions

Due by 2:00 pm (CST) on May 31st, 2023

Via email: cpra.bidding@la.gov

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Technical Specifications

TS-200: Driven Timber Piles

Rough peeled treated Southern Yellow Pine conforming to ASTM D25.
50-ft in length
Class "B" with minimum butt diameter of 12 inches and minimum tip diameter of 7 inches.
The preservative treatment of piles shall be the minimum retention for marine use piles as designated by AWPA Use Category 5C. Piles shall receive a treatment of pressure impregnated Chromate Copper Arsonate (CCA) solution with a minimum retention of 2.5-lb/cu. ft.
Every treated pile shall be identified as inspected and meeting minimum retention by branding, stamping or aluminum tag by the pile treatment facility.

Technical Specifications

TS-200: Driven Timber Piles

The Contractor is responsible in ensuring piles are not driven through submerged riprap associated with any adjacent rock breakwaters. If submerged riprap is found in the selected location for pile installation the Contractor shall contact the Construction Manager. Piles shall be driven as close as possible to the coordinates shown on the Plans without interfering with the adjacent rock breakwaters.

Pile Cut-off elevation should be made to within 3-inches of the designated elevation shown on the Plans. The pile heads shall be removed from the project site and properly disposed of after cut-off.

Pile caps are to be installed atop each driven pile to prevent weathering of the butt. Pile Caps should not interfere with installation of the marine Lanterns and should be made of a UV-resistant rubber or plastic.

Technical Specifications

TS-300: Marine Lanterns

Each Marine Lantern must bear a legible, indelible label (or labels) affixed by the manufacturer and containing the following information:

a. Name of the Manufacturer.

b. Model number.

c. Serial Number.

d. Words to this effect: “This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66.”

e. This label must last the service life of the equipment

f. The manufacturer must provide the purchaser a data sheet containing the following information:

1. Recommended service life based on the degradation of either the source of light or the lamp.
2. Range in Nautical Miles.
3. Effective intensity in Candela.
4. Size of lamp (incandescent only)
5. Interval, in days or years, for replacement of dry-cell or rechargeable battery.

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Technical Specifications

TS-300: Dayboards

Dayboards shall be ‘3NW’ in accordance with USCG regulations providing a Nominal range of visibility of 1 Nautical mile. Dayboards shall be 36” x 36” x 3/16” with a white dayboard backing film and 2” wide retroreflective orange border.

All edges and corners of the Dayboards shall be rounded, filleted, or chamfered as well as sanded or brushed so as to prevent injury during installation or future maintenance.

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Technical Specifications

TS-400: Hardware:
All hardware used in the installation of marine lanterns or dayboards shall be Hot-Dipped Galvanized (HDG).

Neoprene gaskets shall be used between the interface of all installed hardware, installed marine lanterns, and dayboards, as to avoid alvanic corrosion associated with the Copper treated timber pile. No aluminum materials should make direct contact with the timber pile.

Hardware installed for securing Dayboards will include 5/8” Headed through bolts with 5/8” nuts and 5/8” OGEE washers. Hardware should be HDG. Hardware should be tacked, stripped, or damaged prior to demobilization in order to prevent tampering. Contractor to propose method to prevent tampering. A minimum of (3) three 5/8” bolts shall be installed along the vertical center of each Dayboard with spacing as shown on the Plans.

Technical Specifications

TS-500: Ladder Appurtenances:

The Contractor shall furnish all associated material, labor and equipment needed to install the steel brackets and braces as shown on Sheet 8 of the Plans. The steel brackets and braces are to be installed on the 15 timber piles as part of the Base Bid. The steel brackets and braces should be installed according to the measurements on sheet 8 of the Plans to allow their use with the pre-fabricated aluminum ladder shown on the detailed drawing. The Aluminum Ladder is **NOT** to be manufactured or otherwise provided as part of this Contract.

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TYPICAL DETAIL
LADDER SUPPORTS

1 DETAIL
LADDER BRACKET
0 .75 1.5
SCALE IN FEET

2 DETAIL
PL 1
0 6 12
SCALE IN INCHES

5 DETAIL
LADDER BRACE
0 .75 1.5
SCALE IN FEET

LADDER BRACKET
TOP VIEW

C SECTION
LADDER BRACE
0 .75 1.5
SCALE IN FEET

NOTES:
1: CONTRACTOR IS ONLY RESPONSIBLE FOR INSTALLING THE SHOWN LADDER BRACKETS AND BRACES. THE ALUMINUM LADDER SHOWN IN THE DRAWINGS IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT TO BE MANUFACTURED AS PART OF THIS CONTRACT.
2: ONLY THE NAVIGATIONAL AIDS INSTALLED AT POINT P1 THRU P15 WILL REQUIRE THE INSTALLATION OF THE SHOWN LADDER SUPPORTS, BRACKETS AND BRACES.
3: STRUCTURAL SHAPES:
A. STEEL PLATES AND ANGLES – ASTM A36 OR BETTER
B. PIPE- ASTM A53 GRADE B
C. ALUMINUM – 6061-T6
4: FASTENERS
A. 3/4" DIAMTER ROD – ASTM A193 B7 WITH HEAVY HEX GRAI
B. STEEL TO STEEL – ASTM A307 GRADE B OR BETTER WITH A56
UNLESS OTHERWISE NOTED.
C. STEEL TO ALUMINUM – TYPE 316 STAINLESS STEEL (SS)
D. LAG SCREWS AND TIMBER THRU BOLT – ANSI/ASME B.18.2.1 GRADE 2
OR ASTM 307 GRADE 2
5. ALL NON STAINLESS STEEL AND FASTENER COMPONENTS SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM153 WITH 2 OUNCES OF ZINC COATING PER SQUARE FOOT MINIMUM.
6. CONNECT STAINLESS STEEL BOLTS TO ALUMINUM AND MILD STEEL USING STAINLESS STEEL EDPM BONDED SEALING WASHERS.
7. APPLY LOCTITE THREADLOCKER RED 271 TO THREADS OF ALL PERMANENT BOLTED STEEL CONNECTIONS PRIOR TO FINAL NUT TIGHTENING.
8. WELDING SHALL CONFORM WITH CURRENT AWS STANDARDS FOR STEEL AND ALUMINUM.
A. STEEL WELD MATERIAL – E70XX
B. ALUMINUM WELD FILLER 5356
9. COAT THE TIMBER PILE SURFACE IN CONTACT WITH THE STEEL PIPE SUPPORT BRACKET WITH A BITUMINOUS SEALANT.
10. SEAL THE GAP BETWEEN THE STEEL PIPE SUPPORT BRACKET AND THE PILE WITH A 1/2" WIDE LAYER OF EPOXY ALONG THE PERMITER OF THE PILE AT THE TOP AND BOTTOM OF THE PIPE. EPOXY USED SHALL BE A HIGH STRENGTH, TWO PART EPOXY ADHESIVE ACCEPTABLE FOR USE IN OVERSIZED OR CORED HOLES. EPOXY DISPENSING SYSTEM SHALL USE A SELF-MIXING MECHANISM TO ENSURE PROPER MIXING OF RESIN AND HARDENER. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR PRODUCT INSTALLATION AND CURE TIME.

REV	DATE	DESCRIPTION	BY
S			

COASTAL PROTECTION AND RESTORATION AUTHORITY
2045 LAKESHORE DR. CERM SUITE 309
NEW ORLEANS, LA 70122

LADDER APPURTENANCE DETAILS
DESIGNED BY: CH
APPROVED BY: BR
SHORELINE PROTECTION NAVIGATIONAL AIDS
STATE PROJECT Nos. PO-0022, PO-0072, & PO-0030
DRAWN BY: CH
DATE: FEB 2023
SHEET 8