

**CITY OF DEPOE BAY**  
**DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT**

**ADDENDUM NO. 3**

**September 1, 2023**

**NOTE: FAILURE TO ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID FORM DOES NOT AFFECT THE BIDDER'S OBLIGATION FOR COMPLIANCE.**

**Section I – CONTRACT DOCUMENTS**

Bid Form – Section 00301	Replace Schedule of Prices with <b><u>attached</u></b> revised version.
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**Section II – CONTRACT DRAWINGS**

Sheet S2.01	Added tables to better define Pile Drilling Installation Requirements. See <b><u>attached</u></b> tables and additional instructions.
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**Section III – TECHNICAL SPECIFICATIONS**

Section 01025 – Measurement and Payment	Replace entire section with the <b><u>attached</u></b> revised version. This version modifies Chapter 1.01, 1.04, 1.05, and 1.06. This version also adds Chapters 1.13, 1.14, 1.15 and 1.16 as Contingency Items. Changes are highlighted.
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Section 02460 – Steel Pipe Piles	Replace entire section with the <b><u>attached</u></b> revised version. Changes are highlighted.
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**Section IV – REFERENCE SECTIONS**

**GENERAL INFORMATION**

Plan Holders List:	Updated Plan Holders List <b><u>attached</u></b> , for reference. Please make sure to provide updated contact info, per bid instructions, to ensure inclusion in Addenda distribution.
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Bid Date & Time:	<b>Bid schedule has been extended.</b> <b>Bids Due: Thursday September 14, 2023, at 2:00 PM P.T.</b>
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**CITY OF DEPOE BAY**  
**DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT**

**ADDENDUM NO. 3**

**September 1, 2023**

**Bidder Questions:**

1. It is our understanding from past conversations with the City, that many of the existing steel piles are severely corroded below waterline. As such, we are concerned that they may not survive extraction. Should contractors assume that some of the broken or intractable piling will need to be cut off at least 3' below the surface by divers?

If so, how many piles can the contractor assume will need to be cut off? Would an additive alternate bid item be appropriate for this work?

**Response:** It is unknown how many piles may break off below water. However, the fact that the piles are still sufficiently intact to carry lateral loading from the floating docks, suggests that most of the piles should come out without breaking. In the event that some piles do fail above the mudline during extraction, a per each contingency bid item will be included in the bid schedule for cutoff with divers.

2. Drawing sheet S2.01 shows a minimum embedment of 15' into "weak rock" for the float piles. Specification section 02460 p. 3.03 B & C references an embedment of 27'. Can you please clarify what the minimum embedment is required for the float piles? Is the embedment criteria the same for the Bearing piles?

**Response:** Contract Drawings sheet S2.01 and Technical Specifications Section 02460 will be updated to clarify requirements. Attached are tables to better define Pile Drilling Installation Requirements for both 16" and 12.75" piles. These tables will be added to Contract Drawings sheet S2.01.

3. It appears from the specifications that the piles may reach tip elevation using vibratory and impact driving methods. However, there is also language suggesting drilling may be required. This ambiguity is problematic for bidding contractors in that they may have to carry unnecessary contingencies for drilling that may or may not be required.

**Response:** In order to accommodate the possibility that pile drilling will be needed, three contingency bid items have been added to the Bid Form in Contract Documents Section 00301. Updates have also been made in the Bid Item Descriptions of Technical Specifications Section 01025 – Measurement and Payment. Contractor shall mobilize drilling equipment as part of the Mobilization and Demobilization bid item. Actual drilling will be included as contingency items in the bid form.

**CITY OF DEPOE BAY**  
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**September 1, 2023**

Bidder Questions (cont.)	<p>4. Sheet M1.01 appears to show new water meters and valves installed connecting to the existing 2" waterline running along the bulkhead. Is this work the responsibility of the contractor?</p> <p><b>Response:</b> The valves are already in place, just on the harbor side of the existing seawall. Contractor will connect to the existing valves and install all mechanical systems beyond the existing valve.</p> <p>5. Technical Specifications Section 05091 mentions that Contractor shall employ an independent inspection and testing agency to perform testing on all field and shop welding. To what extent is this required?</p> <p><b>Response:</b> If the shop has an approved QC plan and a CWI, no third-party inspection will be required. All welds will be subject to QA review by the owner's representative to ensure the approved QC plan is being followed. If there are issues with weld quality that are not adequately addressed by the shop's QC program, a review of the QC program and possible addition of third-party oversight may be required, at the Contractor's expense.</p> <p>6. Is there an engineer's estimate for the project?</p> <p><b>Response:</b> The engineer's estimate for the project is about \$3.5 million.</p>
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**END OF ADDENDUM NO. 3**

**SCHEDULE OF PRICES**

<b>Bid Item</b>	<b>Item Description</b>	<b>Basis of Measure</b>	<b>Approx. Quantity</b>	<b>Unit Price</b>	<b>Total Amount</b>
1	Mobilization and Demobilization	LS	1		
2	Demolition	LS	1		
3	Furnish and Install Floating Docks	LS	1		
4	Furnish and Install 16" Float Piles	EA	33		
5	Install Salvaged 12.75" Float Piles	EA	6		
6	Furnish and Install Bearing Piles	EA	4		
7	Furnish and Install Pier	LS	1		
8	Furnish and Install ADA Gangway	LS	1		
9	Furnish and Install Dock Water System	LS	1		
10	Furnish and Install Dock Electrical and Lighting System	LS	1		
11	Fire Extinguishers, Life Rings and Dock Safety Ladders	LS	1		
<b>BASE BID SCHEDULE TOTAL</b>					
AA1	Furnish and Install Coal Tar Epoxy Overcoat	LS	1		
<b>BASE BID PLUS ADD ALT SCHEDULE TOTAL</b>					

TOTAL BASE BID AMOUNT (In Figures): \$ \_\_\_\_\_

TOTAL BASE BID AMOUNT (In Words): \_\_\_\_\_

\_\_\_\_\_

TOTAL BASE BID PLUS ADD ALT AMOUNT (In Figures): \$ \_\_\_\_\_

TOTAL BASE BID PLUS ADD ALT AMOUNT (In Words): \_\_\_\_\_

\_\_\_\_\_

The successful low responsive bidder will be deemed that Bidder with the lowest responsive price based on the BASE BID AMOUNT. The City has the option, but is under no obligation to accept add alternate(s).

Please provide unit cost for each Contingency Item. These items will only be applied under the conditions stated in the Contract Drawings and Technical Specifications.

**CONTINGENCY ITEMS (PROVIDE UNIT PRICE PER BASIS OF MEASURE)**

<b>Bid Item</b>	<b>Item Description</b>	<b>Basis of Measure</b>	<b>Approx. Quantity</b>	<b>Unit Price</b>	<b>Total Amount</b>
C13	16" Pile Drilling	LF	---		---
C14	12.75" Vertical Pile Drilling	LF	---		---
C15	12.75" Batter Pile Drilling	LF	---		---
C16	Pile Removal Below Mudline (Diver)	EA	---		---

<b>PILE DRILLING INSTALLATION REQUIREMENTS (16" PILES)</b>		
Overburden Thickness (ft)	Required Length of Drilling (ft)	Total Embedment (ft)
0 to 5	<b>15</b>	15 to 20
6 to 19	1 to 14	<b>20</b>
20 to 26	<b>1</b>	21 to 27
27 or more	0	<b>27</b>

<b>PILE DRILLING INSTALLATION REQUIREMENTS (12.75" PILES)</b>		
Overburden Thickness (ft)	Required Length of Drilling (ft)	Total Embedment (ft)
0 to 7	<b>11</b>	11 to 18
8 to 17	1 to 10	<b>18</b>
18 to 20	<b>1</b>	19 to 21
21 or more	0	<b>21*</b>

\*Note, bearing piles must be proofed to service compression capacity, also.

**Instructions:**

Pile drilling requirements will be contingent upon overburden thickness, as determined by impact hammer refusal depth. After vibratory and impact driving effort establishes the overburden thickness at each pile location, contractor shall drill as specified in the above table. Contractor shall drill to achieve either "Required Length of Drilling" or "Total Embedment", as controlled by cell highlighted in bold.

**SECTION 01025**  
**MEASUREMENT AND PAYMENT**

**PART 1 GENERAL**

**1.01 MOBILIZATION AND DEMOBILIZATION**

**A. Description**

1. "Mobilization and Demobilization" shall consist of preparatory work, operations, and cleanup, including, but not limited to, those necessary for the movement of personnel, equipment and supplies to and from the project site; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various items on the project site. This shall also include but is not limited to all costs for labor, equipment, and material needed for any Contractor's field office including utilities, preparation of staging areas, fencing of staging sites, all leasing costs for office and material staging areas including Contractor parking and security of all construction material even after partial payment of project materials until Final Acceptance of the Project.
2. "Mobilization and Demobilization" shall also include all costs associated with mobilizing and demobilizing of all equipment, materials and supplies required to perform pile drilling work as described in the Contract Drawings.

**B. Method of Measurement**

1. "Mobilization and Demobilization" will not be measured for payment. The original contract bid amount for "Mobilization & Demobilization" shall not be adjusted, regardless of the fact that the Contractor may have, for any reason, shut down the Work on the project or moved equipment away from the project and then returned.
2. Partial payments will be made as follows:
  - a. When five-percent of the total original Contract amount is earned from other Contract items, excluding amounts paid for materials on hand, 50-percent of the amount Bid for Mobilization and Demobilization, or five-percent of the total original Contract amount, whichever is the least, will be paid.
  - b. When 10-percent of the total original Contract amount is earned from other Contract items, excluding amounts paid for materials on hand, 100-percent of the amount Bid for Mobilization and Demobilization, or 10-percent of the total original Contract amount, whichever is the least, will be paid.
  - c. When the Substantial completion date has been established for the project, payment of any amount Bid for Mobilization and Demobilization in excess of 10-percent of the total original Contract amount will be paid.

**C. Basis of Payment**

1. Payment for "Mobilization and Demobilization" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall

constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

## 1.02 DEMOLITION

### A. Description

1. "Demolition" shall include all labor, equipment and materials required, but not limited to, removal, stockpiling, transportation, and disposal of the items specified for removal in the Plans. This includes floating docks, piles, utilities, railing sections, etc. This work includes temporary support of utilities during construction to maintain water and electrical service on the dock sections not currently being demolished, during construction activities. Salvaging the items indicated in the construction drawings (i.e. 12.75" steel pipe piles and Dock 1 aluminum finger float units for reinstallation) and specifications for reinstall and/or turning over to the City (i.e. Dock 2 Gangway) shall be included in this bid item.
2. Salvage items include:
  - a. Six (6) 12.75" diameter steel pipe piles shall be salvaged. These will be reinstalled as part of "Install Salvaged 12.75" Float Piles".
  - b. Five (5) aluminum finger float units from Dock 1 shall be salvaged. These will be reinstalled as part of "Furnish and Install Floating Docks".
  - c. One (1) steel gangway from Dock 2 shall be salvaged. The salvaged gangway shall be loaded onto an Owner furnished trailer, on-site, for removal and possession by the Owner. Coordinate transfer with Owner's Representative.

### B. Method of Measurement

1. Measurement for payment for "Demolition" shall be per a percent complete basis based on the approved schedule of values for Lump Sum Pay unit, in accordance with the requirements of the Contract Documents.

### C. Basis of Payment

1. Payment for "Demolition" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.
2. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.

## 1.03 FURNISH AND INSTALL FLOATING DOCKS

### A. Description

1. "Furnish and Install Floating Docks" shall include all labor, equipment and materials required, but not limited to furnish and install the new floating docks in accordance with the construction plans and specifications, including, but not limited to, new float units, pile hoops, cleats, and other miscellaneous components that make up the completed floating



dock system. This item also includes attachment of salvaged Dock 1 aluminum finger float units as specified in the plans.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install Floating Docks" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

- a. Payment for "Furnish and Install Floating Docks" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.
- b. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.
- c. Partial payment will be made for approved materials on-site and not installed.
- d. Partial payment for approved material off-site and not installed will be considered on an individual case basis.

1.04 FURNISH AND INSTALL 16" FLOAT PILES

A. Description

1. "Furnish and Install 16" Float Piles" shall include all labor, equipment and materials required, but not limited to furnish and install new steel pipe piles, with vibratory and impact hammers, including drive shoes, bird caps, etc. for the new dock system.
2. If impact hammer refusal is reached prior to specified driven embedment, drilling shall be performed as a separate item per Chapter 1.13 of this Specification Section. Costs for any drilling shall not be included in this bid item.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install 16" Float Piles" shall be based on the number of Each, complete, all in accordance with the requirements of the Contract Documents, excluding any drilling required.

C. Basis of Payment

1. Payment for "Furnish and Install 16" Float Piles" under the Base Bid shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

1.05 INSTALL SALVAGED 12.75" FLOAT PILES

A. Description

1. "Install Salvaged 12.75" Float Piles" shall include all labor, equipment and materials required to install the salvaged steel pipe piles, with vibratory and impact hammers, for the new dock system. The extraction of the salvaged piles is covered in "Demolition."

2. If impact hammer refusal is reached prior to specified driven embedment, drilling shall be performed as a separate item per Chapter 1.14 of this Specification Section. Costs for any drilling shall not be included in this bid item.

B. Method of Measurement

1. Measurement for payment for "Install Salvaged 12.75" Float Piles" shall be based on the number of Each, complete, all in accordance with the requirements of the Contract Documents, excluding any drilling required.

C. Basis of Payment

1. Payment for "Install Salvaged 12.75" Float Piles" under the Base Bid shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

1.06 FURNISH AND INSTALL BEARING PILES

A. Description

1. "Furnish and Install Bearing Piles" shall include all labor, equipment and materials required, but not limited to furnish and install new steel pipe bearing piles, with vibratory and impact hammers, including drive shoes, for the new ADA gangway support pier.

2. If impact hammer refusal is reached prior to specified driven embedment, drilling shall be performed as a separate item per Chapters 1.14 and 1.15 of this Specification Section. Costs for any drilling shall not be included in this bid item.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install Bearing Piles" shall be based on the number of Each, complete, all in accordance with the requirements of the Contract Documents, excluding any drilling required.

C. Basis of Payment

1. Payment for "Furnish and Install Bearing Piles" under the Base Bid shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

1.07 FURNISH AND INSTALL PIER

A. Description

1. "Furnish and Install Pier" shall include all labor, equipment and materials required, but not limited to furnish and install the new ADA access gangway support pier in accordance with the construction plans and specifications, including, but not limited to, new steel frame pier, gangway hangers, steel pile caps, epoxy anchors, grating deck and steel guardrails. Excludes furnish and install of four new steel pipe bearing piles (see Pay Item "Furnish and Install Bearing Piles"), but does include pile to pile cap welds, batter pile gussets, stiffeners and struts.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install Pier" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

1. Payment for "Furnish and Install Pier" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.
2. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.
3. Partial payment will be made for approved materials on-site and not installed.
4. Partial payment for approved material off-site and not installed will be considered on an individual case basis.

1.08 FURNISH AND INSTALL ADA GANGWAY

A. Description

1. "Furnish and Install ADA Gangway" shall include all labor, equipment and materials required, but not limited to furnish and install the new aluminum ADA Gangway in accordance with the construction plans and specifications.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install ADA Gangway" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

1. Payment for "Furnish and Install Gangways" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

1.09 FURNISH AND INSTALL DOCK WATER SYSTEM

A. Description

1. "Furnish and Install Dock Water System" shall include all labor, equipment and materials required, but not limited to furnish and install the dock potable water system, and fire hose cabinets, associated plumbing, hose hangers and accessories in accordance with the construction plans and specifications.
2. Fire hose will be furnished by Owner.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install Dock Water System" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

1. Payment for "Furnish and Install Dock Water System" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.
2. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.
3. Partial payment will be made for approved materials on-site and not installed.
4. Partial payment for approved material off-site and not installed will be considered on an individual case basis.

1.10 FURNISH AND INSTALL DOCK ELECTRICAL AND LIGHTING SYSTEM

A. Description

1. "Furnish and Install Dock Electrical and Lighting System" shall include all labor, equipment and materials required, but not limited to furnish and install the electrical, lighting and emergency call boxes for the new docks and gangway in accordance with the construction plans and specifications.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install Dock Electrical and Lighting System" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

1. Payment for "Furnish and Install Dock Electrical and Lighting System" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.
2. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.
3. Partial payment will be made for approved materials on-site and not installed.
4. Partial payment for approved material off-site and not installed will be considered on an

individual case basis.

1.11 FIRE EXTINGUISHERS, LIFE RINGS AND DOCK SAFETY LADDERS

A. Description

1. "Fire Extinguishers, Life Rings and Dock Safety Ladders" shall include all labor, equipment and materials required, but not limited to furnishing and installing the fire extinguishers and cabinets, life rings with line and cabinets, and ladders, in accordance with the construction plans and specifications.

B. Method of Measurement

1. Measurement for payment for "Fire Extinguishers, Life Rings and Dock Safety Ladders" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

1. Payment for "Fire Extinguishers, Life Rings and Dock Safety Ladders" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.
2. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.
3. Partial payment will be made for approved materials on-site and not installed.
4. Partial payment for approved material off-site and not installed will be considered on an individual case basis.

1.12 FURNISH AND INSTALL COAL TAR EPOXY COATINGS – **ADDITIVE ALTERNATE**

A. Description

1. "Furnish and Install Coal Tar Epoxy Coatings" is an **additive alternate** item and is not considered part of the base bid. This item shall include all labor, equipment and materials required, but not limited to furnishing, preparing galvanized surfaces and installing the coal tar epoxy on all galvanized float framing components, in accordance with the construction plans and specifications.
2. External pile hoops, cleats, utility hangers and racks, and fastening hardware need only be galvanized. Fixed pier structure, piles, and railings need only be galvanized.

B. Method of Measurement

1. Measurement for payment for "Furnish and Install Coal Tar Epoxy Coatings" shall be upon the completion of the entire Work as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

C. Basis of Payment

1. Payment for "Furnish and Install Coal Tar Epoxy Coatings" under the Base Bid shall be made at the Lump Sum Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans

and as directed by the Engineer.

2. Partial payment for Work will be based on the Contract Bid Schedule on percent complete basis.
3. Partial payment will be made for approved materials on-site and not installed.
4. Partial payment for approved material off-site and not installed will be considered on an individual case basis.

#### 1.13 16" PILE DRILLING – **CONTINGENCY ITEM**

##### A. Description

1. "16" Pile Drilling" is a **contingency item** and is not considered part of the base bid. This item, if needed, shall include all labor, equipment, materials and consumables (not already mobilized per 1.01), to advance piles to final specified embedment using drilling techniques, in accordance with the Contract Drawings and technical Specifications.

##### B. Method of Measurement

1. Measurement for payment for "16" Pile Drilling" shall be per foot of pile installed in drilled hole, in accordance with the requirements of the Contract Documents.

##### C. Basis of Payment

1. Payment for "16" Pile Drilling" under this **contingency item** shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

#### 1.14 12.75" VERTICAL PILE DRILLING – **CONTINGENCY ITEM**

##### B. Description

1. "12.75" Vertical Pile Drilling" is a **contingency item** and is not considered part of the base bid. This item, if needed, shall include all labor, equipment, materials and consumables (not already mobilized per 1.01), to advance piles to final specified embedment using drilling techniques, in accordance with the Contract Drawings and technical Specifications.

##### B. Method of Measurement

1. Measurement for payment for "12.75" Vertical Pile Drilling" shall be per foot of pile installed in drilled hole, in accordance with the requirements of the Contract Documents.

##### C. Basis of Payment

1. Payment for "12.75" Vertical Pile Drilling" under this **contingency item** shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

#### 1.15 12.75" BATTER PILE DRILLING – **CONTINGENCY ITEM**

##### C. Description

1. "12.75" Batter Pile Drilling" is a **contingency item** and is not considered part of the base bid. This item, if needed, shall include all labor, equipment, materials and consumables (not already mobilized per 1.01), to advance piles to final specified embedment using drilling techniques, in accordance with the Contract Drawings and technical Specifications.

**B. Method of Measurement**

1. Measurement for payment for "12.75" Batter Pile Drilling" shall be per foot of pile installed in drilled hole, in accordance with the requirements of the Contract Documents.

**C. Basis of Payment**

1. Payment for "12.75" Batter Pile Drilling" under this **contingency item** shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

**1.16 PILE REMOVAL BELOW MUDLINE (DIVER) – CONTINGENCY ITEM**

**D. Description**

1. "Pile Removal Below Mudline (Diver)" is a **contingency item** and is not considered part of the base bid. This item, if needed, shall include all labor, equipment, materials and consumables, to remove unextractable steel piles by cutting off below mudline and removal, using divers, in accordance with the Contract Drawings, Technical Specifications, and permit requirements.

**B. Method of Measurement**

1. Measurement for payment for "Pile Removal Below Mudline (Diver)" shall be per each, in accordance with the requirements of the Contract Documents.

**C. Basis of Payment**

1. Payment for "Pile Removal Below Mudline (Diver)" under this **contingency item** shall be made at the Unit Price named in the Bid Schedule under the Pay Item, which payment shall constitute full compensation for all Work described in this pay item, as shown on the plans and as directed by the Engineer.

**PART 2 PRODUCTS**

Not Used.

**PART 3 EXECUTION**

Not Used.

**END OF SECTION**

**SECTION 02460**  
**STEEL PIPE PILES**

**PART 1 GENERAL**

**1.01 DESCRIPTION OF WORK**

- A. The work in this Section shall include all labor, materials, tools and equipment necessary to furnish and install all bearing piles and float system piles, including cutting shoes, bird caps, and all other related work in accordance with the requirements of the Contract Documents and as shown on the Plans.

**1.02 RELATED WORK SPECIFIED ELSEWHERE**

- A. Section 05091 – Welding
- B. Section 05126 - Galvanizing
- C. Section 05500 – Metal Fabrications
- D. Section 05700 – Dock System

**1.03 REFERENCES**

- A. ASTM A252 - Welded and Seamless Steel Pipe Piles.
- B. AWS D1.1 - Structural Welding Code - Steel

**1.04 SUBMITTALS**

- A. Manufacturer's Mill Certificate: Steel Certification including chemistry, yield strength, and mill numbers.
- B. Shop Drawings for all fabricated items per Section 05500 – Metal Fabrication.
- C. Welding procedures. All weld metal proposed to be used in the shop or in the field shall be submitted and approved for use prior to construction. The submittal shall contain all required information and the manufacturer's recommendations for the use of the product on this Project.
- D. Welder Certificates - Certify welders employed in the work with AWS qualifications within the previous 12 months.
- E. Pile Installation Plan - Provide narrative and illustrations to fully describe complete installation plan. The plan shall address, as a minimum, all equipment, labor, temporary pile support and template systems, survey control, sequence and method of installation.
- F. Manufacturer's information on pile hammers intended for use, complete with satisfactory data to ensure properly suited for installation of pipe piles. The information shall include pile hammer type and driving method for all pile types, as well as manufacturer's recommendations and information on hammer cushion.



- G. In the event that pile installation using appropriately sized vibratory and impact hammers and methodologies fails to advance the pile to the full specified design embedment, socketing may be required. The Contractor shall be prepared to employ drilling methods to install piles as necessary.
- H. The Contractor shall not mobilize drilling equipment and pile driving hammers and related equipment prior to receiving written approval of the plan. All driving methods shall meet the requirements of the permits issued for this Project.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. All steel pipe piles shall be seamless or straight seam pipe conforming to ASTM A252, Grade 3,  $F_y = 50$  ksi, with ASTM A36 chemistry. Carbon Equivalency shall not exceed 0.45. No spiral weld pipe may be used.
- B. All pipe piles shall be equipped with a shoe compatible with the Contractor's pile installation methods or a cutting shoe for pile installed with impact driving methods. Cutting shoe shall be APF inside flanged cutting shoe or equal, installed per manufacturer's recommendations.
- C. Fiberglass bird cap shall be from American Dock Boxes or approved equal, sized to fit specified pile and attached firmly with appropriate adhesive.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. All steel pipe piles shall be furnished, complete with pile tips, in the lengths indicated in the Pile Schedule. Piles shall be delivered full length or field spliced in accordance with approved welding procedures.

### **3.02 INSTALLATION**

- A. All pile installations shall be conducted with the Engineer present. The Contractor shall assist the Engineer in monitoring the pile driving. The Contractor shall mark each pile with one-foot increments, with every five-foot increment numbered. The marks shall be visible and readable from all sides of the pile.

B. Piles shall be supplied to provide the final length specified on the Pile Schedule. Contractor may field splice at their option. Piles shall be driven and/or drilled to the Total Embedment or Required Length of Drilling, whichever controls, as specified in the Contract Drawings. Pile capacity will be determined solely by the Engineer.

~~C. All steel pipe pile cutoffs greater than ten feet in length shall become the property of the Owner. The Contractor shall remove the pipe from the Project site and shall neatly stack the pipe, as approved by the Engineer, at a location to be within 5 miles of the Project site.~~

### **3.03 PILE DRIVING – FLOAT PILES**

- A. All float piles shall be driven plumb through the pile hoops in such a manner to allow the float full movement through all water levels without binding. All float piles shall be driven with a vibratory hammer, APE 200 or equivalent, as required to obtain the necessary embedment. If the pile is driven full length without achieving vibratory hammer refusal, a static load check shall be performed. The static load check shall consist of placing the entire weight of the APE 200 hammer on the pile without vibratory action and monitoring for movement. If movement occurs, the Contractor shall let the pile set for 24 hours and retest the pile with the static load test. If the pile again moves the Contractor shall splice a length of pile (length as determined by the Owner) and continue driving the pile to its full length or hammer refusal (this work will be negotiated by change order). If driven full length, the static load test shall be performed again, otherwise cutoff to required length can be performed.
- B. If vibratory refusal occurs prior to complete embedment, the Contractor shall drive the pile with an impact hammer with a minimum energy of 30,000 ft-lbs and minimum lump weight of 4,000 lbs. The pile shall be driven to refusal with the impact hammer to the Total Embedment as specified in the Contract Drawings.
- C. If vibratory and impact hammers achieve less than 27 ft of total embedment for 16" piles and less than 21 ft of total embedment for 12.75" piles, pile drilling will be required per the Pile Drilling Installation Requirements presented in the Contract Drawings.

#### 3.04 PILE DRIVING – BEARING PILES

- A. All bearing piles shall be driven ~~plumb~~ in their final position. All bearing piles shall be driven to required Total Embedment using vibratory and impact hammers to reach specified embedment. Pile shall be proof driven to the ultimate capacity shown in the pile schedule. Ultimate capacity will be solely determined by the Engineer.
- B. The bearing piles shall be driven with an impact hammer with a minimum rated energy of 20,000 ft-lbs and minimum lump weight of 2,500 lbs. Any hammer that causes damage to the piles during driving operations shall be substituted with an acceptable alternate hammer at no additional expense to the Owner.
- C. If final driving achieves less than 21 ft of total embedment, pile drilling will be required per the Pile Drilling Installation Requirements presented in the Contract Drawings.
- D. Vertical piles shall be placed within 1% of specified vertical alignment. Batter piles shall be placed within 1" over 48" of specified batter alignment. Piles shall also be driven within 2-inches of plan location at cutoff elevation. Misaligned piles shall be pulled by the Contractor with a vibratory hammer, prior to drilling, and redriven at no additional cost to the Owner. A vibratory hammer with the minimum requirements equivalent to an APE 200 must be available and on-site during all pile driving operations.

**END OF SECTION**

**CITY OF DEPOE BAY**  
**Depoe Bay Harbor Docks 2-4 Replacement**

Notice: July 31, 2023 and August 7, 2023

**Extended Proposal Deadline: September 14, 2023**

Time: 2:00 PM PST

Plans and Specifications: No Fee

**Addendum Number: 1, 2, 3**

NAME/ADDRESS	PLAN #	PHONE	FAX/E-MAIL	Date
Seattle Daily Journal of Commerce Chrisy Coutts 83 Columbia St, Ste 200 Seattle, WA 98104	N/A	(206) 622-8272	plans@djc.com chrisy.martin@djc.com	07/31/23
Builders Exchange of Washington, Inc. Nick Pettinger 2607 Wetmore Ave Everett, WA 98201	N/A	(425) 258-1303	(425) 259-3832 nick@bxwa.com	08/01/23
West Coast Contractors Stan Washington 61050 Hwy 101 Coos Bay, OR 97467	N/A	(541) 267-7689	(541) 269-1600 estimating@westcoastcontractors.com	08/09/23
Bergerson Construction, Inc. Chad Curs or Greg Morrill PO Box 387 Astoria, OR 97103	N/A	(503) 325-7130	estimating@bergerson-const.com	08/14/23
Advanced American Const. Jon Koller 8444 NW St. Helens Road Portland, OR 97231	N/A	(503) 445-9000 (503) 729-6720	(503) 546-3031 jkoller@advanced-american.com	08/14/23
Legacy Contracting, Inc. Jeff Howell 41850 Kingston Jordan Rd. Stayton, Oregon 97383	N/A	(503) 749-1818	bids@legacycontractinginc.com	08/16/23

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NAME/ADDRESS	PLAN #	PHONE	FAX/E-MAIL	Date
Northbank Civil & Marine, Inc John Wikander 4180 NW Fruit Valley Road Vancouver, WA 98660	N/A	(503) 866-0311	johnw@northbankcm.com	08/16/23
Topper Industries Bruce Abraham 1333 Glenwood Street Woodland, WA 98674	N/A	(360) 841-0451	bruce@topperfloats.com	08/21/23
Contractor Plan Center Brie Kidwell PO Box 2486 Clackamas, OR 97015	N/A	(503) 650-0148	brie@contractorplancenter.com	08/22/23
Billeter Marine, LLC Todd Pannell 520 3rd Court Coos Bay, OR 97420	N/A	(541) 269-8600 (541) 404-8999	(541) 266-0532 todd@billetermarine.com	08/22/23
Marine Floats Eric Wanner 313 East F Street Tacoma, WA 98421	N/A	(253) 383-2740 (253) 722-8228	(253) 383-1102 ewanner@marinefloats.com	08/22/23
Mantle Industries LLC Kimberly Krueger 1100-C Yew Ave Blaine, WA 98230	N/A	(253) 778-5140	Kimmy@MantleIndustries.com	08/24/23