



CITY OF PETALUMA

POST OFFICE BOX 61
PETALUMA, CA 94953-0061

ADDENDUM NO. 3

PETALUMA TURNING BASIN FLOAT, PILE, AND GANGWAY REPLACEMENT City Project Number C14402010

July 31, 2023

This Addendum No. 3 modifies the Bidding Documents for the Petaluma Turning Basin Float, Pile, and Gangway Replacement City Project Number C14402010. This Addendum shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

Kevin McDonnell
Mayor

Brian Barnacle
Janice Cader-Thompson,
Dist. 1

Mike Healy
Karen Nau, Dist. 3

Dennis Pocekay
John Shribbs, Dist. 2
Councilmembers

Public Works & Utilities

City Engineer
11 English Street
Petaluma, CA 94952
Phone (707) 778-4303

Environmental Services
Ellis Creek Water
Recycling Facility
3890 Cypress Drive
Petaluma, CA 94954
Phone (707) 776-3777
Fax (707) 656-4067

Facilities, Parks &
Streets Maintenance
840 Hopper St.
Petaluma, CA 94952
Phone (707) 778-4303
Fax (707) 206-6065

Transit Division
555 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4421

Utilities & Field Operations
202 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4546
Fax (707) 206-6034

E-Mail:
publicworks@
cityofpetaluma.org

NOTICE INVITING BIDDERS CHANGE

1.0 RECEIPT OF BIDS

Sealed Bids will be received at the office of the City Clerk of the City of Petaluma located at 11 English Street, Room 4, Petaluma, California, 94952-2610, until 1:30 PM on Thursday, August 10th, 2023, for the Petaluma River Turning Basin Float, Pile, and Gangway Replacement. Any Bids received after the specified time and date will not be considered. Fax and other electronically transmitted Bids will not be accepted.

2.0 OPENING OF BIDS

The Bids will be publicly opened and read at 1:30 PM on Thursday, August 10th, 2023 at the above-mentioned office of the CITY. The CITY reserves the right to postpone the date and time for opening of Bids at any time prior to the aforesaid date and time.

SECTION I BID FORMS CHANGE:

BID SCHEDULE – CHANGE

BID SCHEDULE

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Price
1	Mobilization/Demobilization	LS	1		
2	Coordination and Receipt of Concrete Float Delivery with Bellingham Marine	LS	1		
3	Demolition, Removal & Disposal of Existing Timber Floating Dock System, Timber & Steel Piles, Metal Gangways, Gangway Structures, and Flagpole Foundation	LS	1		
4	Excavation, Removal, & Disposal of East Gangway Foundation	LS	1		
5	Pile Probing	LS	1		
6	Install 3,800 sf of Concrete Floating Docks and Water/Power Pedestals	LS	1		
7	Furnish & Install 16-in Dia. x 50-ft long x 3/8-in W.T. Steel Pipe Piles	EA	14		

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Price
8	Furnish & Install Concrete Gangway & fence Foundations	CY	16		
9	Furnish and Install East Slope Armoring	LS	1		
10	Install Metal Gangways	EA	2		
11	Furnish & Install 8-ft Tall Iron Gangway Fencing and Sign	LF	100		
12	Bank Restoration and Seeding & Flagpole Asphalt Patch	LS	1		
13	Remove, Store, and Re-Install PSCC Gangway	LS	1		
Total Base Bid				\$	\$

SECTION IV TECHNICAL SPECIFICATIONS CHANGES:
SECTION 012205 MEASUREMENT AND PAYMENT – REVISED

SECTION 31 36 00 MARINE MATTRESS – REMOVED

SECTION VI PROJECT PLANS CHANGES
PETALUMA TURNING BASIN FLOATING DOCK DESIGN & FABRICATION PLANS – REVISED

Questions and Answers:

Q1: *If an alternative pre- drilling method can be developed by the contractor allowing a .5 inch wall pile to reach the original intended embedment of -35.3 ft., will the city accept this embedment in rock without grouting, in lieu of the -10ft with grout as shown in detail 2 of sheet S-502?*

A1: The proposed pile size and drilling method is not in conformance with the Contract Documents. Should the Contractor wish to submit an alternate design, calculations shall be provided showing this meets the required pile strength and embedment, as specified within the Contract Documents. This shall be subject to the Engineers review and approval. Please refer to Section 01 50 00 SUBMITTALS AND SUBSTITUTIONS.

Q2: *How are the drilling spoils to be dealt with if using the method shown on detail 2, sheet S-502 (where are they disposed? Does the anticipated permit allow for removing and disposing of predrilled spoils?)*

A2: Please refer to Sheet G-002 Selective Demolition & Disposal. It shall be the responsibility of the Contractor to properly dispose of all debris, including spoils. The Contractor shall submit a disposal certificate to the Engineer for review and approval.

Q3: *If the contractor were to use a .5-inch wall 16” pile, what is the max driving force allowable?*

A3: The proposed pile size is not in conformance with the Contract Documents. Should the Contractor wish to submit an alternate design, calculations shall be provided showing this meets the required pile strength and embedment, as specified within the Contract Documents. This shall be subject to the Engineer’s review and approval. Please refer to Section 01 50 00 SUBMITTALS AND SUBSTITUTIONS.

Q4: *Is the bidder to assume the “City-Provided” 16” pile is a typo and the contractor is to provide the Socketed Pile?*

A4: Please refer to revised Measurement and Payment.

Q5: *Can the City please clarify, where the geotextile fabric goes and how much of the geotextile fabric is required?*

A5: Please refer to revised Project Plans.

Q6: *Can the City elaborate what the “pre-qualified” list requirement is and more clarification regarding where/how much of geotextile fabric is needed.*

A6: The Contractor shall submit a minimum of the following:

- Relevant experience and job history for all subcontractors (Minimum of three (3) projects).
- List of three (3) references for whom each subcontractor has worked in the last 3 years.

Q7: *What specific permits are needed from the Contractor?*

A7: The contractor shall be responsible for obtaining any temporary easements required for use of property outside of the specified staging area within the Contract Documents. No additional City permits shall be required.

Summary of Changes: Notice Inviting Bidders, Bid Schedule, Measurement and Payment, and Technical Specifications (Marine Mattress). All other items of the bid documents shall remain unchanged.

City of Petaluma,



Erica Paslay (formerly Jacobs)
Project Manager
Public Works & Utilities Department

A signed copy of this Addendum and the attached acknowledgment form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.

ADDENDUM NO. 3

**PETALUMA TURNING BASIN FLOAT, PILE, AND GANGWAY REPLACEMENT
City Project Number C14402010**

July 31, 2023

ACKNOWLEDGEMENT

Receipt of Addendum No. 3 is hereby acknowledged by _____
(Contractor's Name)
on the _____ day of _____, 2023.

By: _____
Signature

Title

Company

NOTICE INVITING BIDS

1. **RECEIPT OF BIDS:** Sealed Bids will be received at the office of the City Clerk of the City of Petaluma located at 11 English Street, Room 4, Petaluma, California, 94952-2610, until 1:30 PM (enter time) on Thursday, August 10th, 2023, for the Petaluma River Turning Basin Float, Pile, and Gangway Replacement. Any Bids received after the specified time and date will not be considered. Fax and other electronically transmitted Bids will not be accepted.
2. **OPENING OF BIDS:** The Bids will be publicly opened and read at 1:30 PM (enter time) on Thursday, August 10th, 2023 at the above-mentioned office of the CITY. The CITY reserves the right to postpone the date and time for opening of Bids at any time prior to the aforesaid date and time.
3. **COMPLETION OF WORK:** The WORK must be completed within 90 working days after the commencement date stated in the Notice to Proceed.
4. **DESCRIPTION OF WORK:** The WORK includes The proposed project consists of the replacement of the floating docks, gangways and support piles within the Petaluma River Turning Basin. Existing, currently serviceable and deteriorating site structures include the timber pier access structure, metal gangways, floating docks, and piles, as specified within the Contract Plans. The scope of work includes the installation of 3,800 sf of non-ferrous concrete docks (fabricated by other), the removal of six (6) 16-inch diameter steel and nine (9) 12-inch timber piles, to be replaced with (14) 16-inch diameter steel piles, the removal and disposal of the existing gangways and adjacent access structures, to be replaced with ADA compliant steel gangways (fabricated by other) and gangway landing platforms as specified in the Contract Plans, and the bank restoration and planting in areas affected by gangway structures and landing platforms.
5. **SITE OF WORK:** The site of the WORK is located: at the Petaluma River Turning Basin near downtown Petaluma. There are two access gangways to the Turning Basin docks located on adjacent properties to the West and the East of the Turning Basin. On the East side of the Turning Basin the gangway is close to Weller Street Park located at 150 Weller Street and on the West side the gangway is located close to Taps Restaurant located at 54 E. Washington Street, Petaluma CA.
6. **OBTAINING CONTRACT DOCUMENTS:** The Contract Documents are entitled "Petaluma River Turning Basin Float, Pile, and Gangway Replacement."

The Contract Documents may be obtained by 4:00 P.M., Monday through Thursday at the office of Public Work & Utilities, 202 North McDowell Boulevard, Petaluma, California 94954.

If you would like to receive the bid document via the CITY's website, at no cost, please go to:

- <https://cityofpetaluma.org/bid-opportunities-2/>
- Fill out the Plan Holder's form by clicking on the Plan Holder's form link
- Fill in all fields
- Click on the submit button at the end of the form

Submitting the Plan Holder's form on-line automatically puts you on the CITY's Bidders

List and you will be notified of any Addendums or information pertaining to the bid by email.

If you would like to purchase bid documents, please call Phone No. (707) 778-4585, Attention: Tiffany Avila, upon payment of \$50.00 (non-refundable) for each set of Contract Documents (including technical specification and accompanying reduced scale drawings). The scale of the reduced drawings is about one-half of the original scale. At the Bidder's request and expense, the Contract Documents may be sent by overnight mail.

- Full-scale drawings are not available.
- If full-scale drawings are available and desired, they may be purchased at reproduction cost from _____ .

7. **BID SECURITY:** Each Bid shall be accompanied by a certified or cashier's check or Bid Bond executed by an admitted surety in the amount of 10% percent of the Total Bid Price payable to the City of Petaluma as a guarantee that the Bidder, if its Bid is accepted, will promptly execute the Agreement. A Bid shall not be considered unless one of the forms of Bidder's security is enclosed with it. Upon acceptance of the Bid, if the Bidder refuses to or fails to promptly execute the Agreement the Bidder's security shall be forfeited to the CITY.
8. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Public Contract Code Section 3300, the CITY has determined that the CONTRACTOR shall possess a valid Class C license at the time that the Contract is awarded. Failure to possess the specified license shall render the Bid as non-responsive and shall act as a bar to award of the Contract to any bidder not possessing said license at the time of award pursuant to Labor Code Section 1725.5, subject to limited legal exceptions.
9. **PREFERENCE FOR MATERIAL:** Any specification designating a material, product, thing, or service by specific brand or trade name, followed by the words "or equal" or "or equivalent" is intended only to indicate quality and type of item desired. Substitute products will be considered prior to award of the Contract in accordance with Section 3400 of the California Public Contract Code. The Bidder will submit data substantiating its request for a substitution of "an equal" item within 14 days following submission of its Bid. Substantiation date will conform to the requirements of the instructions for Proposed Substitutions of "or equal" items contained in the bid Forms. The ENGINEER will make a determination of approval or rejection of the proposed substitution prior to the award of the Contract. No request for substitution of "an equal" items will be considered by the ENGINEER after award of the Contract. This provision does not apply to materials, products, things, or services that may lawfully be designated by a specific brand or trade name under Public Contract Code Section 3400(c).
10. **REJECTION OF PROPOSALS:** The CITY reserves the right to reject all or any part of all bids submitted, waive informalities and irregularities, and will not, to the extent allowed by law, be bound to accept the lowest bid.
11. **BIDS TO REMAIN OPEN:** The Bidder shall guarantee the total bid price for a period of 90 calendar days from the date of bid opening.

- 12. CALIFORNIA PREVAILING WAGE RATE REQUIREMENTS:** In accordance with the provisions of California Labor Code Sections 1770, 1773, 1773.1, and 1773.7 as amended, the Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with the standards set forth in Section 1773 for the locality in which the WORK is to be performed. A copy of said wage rates is on file at the office of the City Clerk and is available to any interested party upon request. A copy of the prevailing rate of per diem wages are also online at <http://www.dir.ca.gov/DLSR>. Each Contractor and Subcontractor must pay no less than the specified rates to all workers employed to work on the Project. The schedule of per diem wages is based upon a working day of eight hours. The rate for holiday and overtime work must be at least time and one-half. It shall be mandatory upon the CONTRACTOR to whom the WORK is awarded and upon any subcontractor under the CONTRACTOR to pay not less than said specified rates to all workers employed by them in the execution of the WORK. The Contract will be subject to compliance monitoring and enforcement by the Department of Industrial Relations under Labor Code Section 1771.4. Additionally, CONTRACTOR shall post job site notices as required by Labor Code section 1771.4.
- 13. LABOR COMPLIANCE PURSUANT TO CALIFORNIA LABOR CODE § 1771.1:** A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirement of Section 4104 of the Public Contract Code or engage in the performance of any contract for public work, as defined in Division 2, Part 7, Chapter 1 of the Labor Code, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time contract is awarded.
- 14. RETAINAGE FROM PAYMENTS:** The CONTRACTOR may elect to receive 100 percent of payments due under the Contract Documents from time to time, without retention of any portion of the payment by the CITY, by depositing securities of equivalent value with the CITY in accordance with the provisions of Section 22300 of the Public Contract Code. Alternatively, the CONTRACTOR may request, and the CITY shall make payment of retentions earned directly to the escrow agent at the expense of CONTRACTOR. At the expense of the CONTRACTOR, the CONTRACTOR may direct the investments of the payments into securities and the CONTRACTOR shall receive the interest earned on the investments upon the same terms as provided in Section 22300 of the Public Contract Code for securities deposited by the CONTRACTOR. The CONTRACTOR shall be responsible for paying all fees for the expenses incurred by the escrow agent in administering the escrow account and all expenses of the CITY. These expenses and payment terms shall be determined by the CITY's Finance Director or their designee and the escrow agent. Upon satisfactory completion of the WORK, the CONTRACTOR shall receive from the escrow agent all securities, interest, and payments received by the escrow agent from the CITY, pursuant to the terms of Section 22300 of the Public Contract Code. Such securities, if deposited by the CONTRACTOR, shall be valued by the CITY, whose decision on valuation of the securities

shall be final. Securities eligible for investment under this provision shall be limited to those listed in Section 16430 of the Government Code, bank or savings and loan certificates of deposit, interest-bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the CONTRACTOR and the CITY.

15. **PAYMENT BOND:** Pursuant to and in accordance with California Civil Code Section 9550, a payment bond must be filed if the expenditure for the WORK is in excess of Twenty-Five Thousand Dollars (\$25,000).

16. **PRE-BID CONFERENCE VISITS:** [At least one box below MUST be checked]

Check if no pre-bid conference/site is to be held:

Mandatory pre-bid conference/site visit to be held: Prospective bidders are required to attend a mandatory pre-bid conference/site visit at 1:00 PM (enter time) on Wednesday, June 28, 2023, at the Petaluma Turning Basin, offices at River Plaza near TAPS 54 E. Washington Street, Petaluma, CA, 94952. Prospective bidders that fail to attend the mandatory pre-bid conference/site visit will be ineligible to bid on the project. Following the conference at City offices, City staff and prospective bidders will meet at the project Site. Transportation to the project site will be the responsibility of prospective bidders. The purposes of the conference/site visit are to discuss the scope of the project and bidding requirements and to acquaint bidders with Site conditions.

No information communicated at the pre-bid conference/site visit may amend the project bidding requirements. Project bidding requirements may only be amended by addenda issued by authorized City officials. Following the pre-bid conference/site visit, prospective bidders may submit detailed technical questions in writing. If warranted, the City may respond to such questions by addenda.

Non-Mandatory pre-bid conference/site visit to be held: Prospective bidders are invited to attend a non-mandatory pre-bid conference/site visit at (enter time) on _____, at the _____. Following the conference at City offices, City staff and prospective bidders will meet at the project Site. Transportation to the project site will be the responsibility of prospective bidders. The purposes of the conference/site visit are to discuss the scope of the project and bidding requirements, and to acquaint bidders with Site conditions.

No information communicated at the pre-bid conference/site visit may amend the project bidding requirements. Project bidding requirements may only be amended by addenda issued by authorized City officials. Following the pre-bid conference/site visit, prospective bidders may submit detailed technical questions in writing. If warranted, the CITY may respond to such questions by addenda.

17. **PROJECT ADMINISTRATION:** All communications relative to the WORK shall be directed to the ENGINEER prior to opening of the Bids.

18. **FINDING OF SUBSTANTIAL COMPLEXITY:** Pursuant to Public Contract Code section 7201(b)(3) the CITY's Public Work's Director has found that the WORK is substantially complex due to: the amount of technical and scientific knowledge needed to complete the project; The amount of resources needed to complete the project including

amount of days, workers, and labor; The urgency for project completion; The amount of tasks needed to complete the project; The number of organizational stakeholders needed to satisfy; The environmental complexity of the conditions; And in particular the external permitting agencies the project needs to satisfy; the size and impact of the project (which will require the operation of the D Street bridge affecting traffic, and fire station response times); over water work (dredging and demolition of existing docks); the specialty contractor work and therefore this is a unique project that is not regularly performed and requires a higher retention amount than 5 percent.

Notwithstanding Public Contract Code Section 7201 or any other law or regulation that purports to provide otherwise, public contracting is a quintessential municipal affair, subject to charter cities' home rule power, and the California Constitution grants charter cities supreme authority over municipal affairs, which include public works, procurement, and the mode of municipal contracting (see, Public Contract Code Section 1100.7 and e.g., *Bishop v. City of San Jose* (1969) 1 C3d 56).; and it is the courts, not the legislature, that determines which matters are municipal affairs (see, e.g., *California Federal Savings and Loan v. City of Los Angeles* (1991) 54 C3d 1); and

Article X, Section 67 of the Petaluma Charter provides in pertinent part:

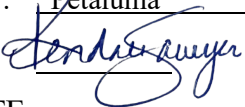
. . . no progressive payments can be provided for or made at any time which, with prior payments, if there have been such, shall exceed in amount at that time ninety percent of the value of the labor done and the materials used up to that time, and no contract shall provide for or authorize or permit the payment of more than ninety percent of the contract price before the completion of the work done under said contract and the acceptance thereof . . . ; and

City charters are documents of limitation and a restriction on the City Council's powers imposed by the voters (see, e.g., *City of Glendale v. Trondsen* (1957) 48 C2d 93) and, as a result, the City Council's contracting power is limited by the retention requirement in Article X, Section 67, and the City Council and City staff lack the power to provide for public works contract retention other than as specified in the City Charter.

19. **GOVERNMENT CODE SECTION 1090:** The successful Bidder may be precluded from competing for, or participating in, subsequent contracts that result from or relate to the Work performed pursuant to this Bid. The ethics laws that apply to the City and all its consultants, contractors, and vendors include California Government Code Section 1090 and following, which prohibits government officials, employees, and contractors from participating in making government contracts in which the official, employee or contractor has a financial interest. Because City contractors always have a financial interest in their City contracts, the Section 1090 prohibition regarding City contractors focuses on whether a contractor is or would be "making a government contract" in a quasi-governmental capacity for purposes of Section 1090. Section 1090 prohibits City contractors from using their role as a contractor to influence how the City spends the public's funds in a way that benefits the contractor. Penalties for violating Section 1090 are severe, and may include felony criminal penalties, permanent disqualification from holding public office in California, disgorgement of any benefit received by the financially interested contractor, civil and administrative penalties, and voiding of the prohibited contract.

NAME: Erica Paslay
ADDRESS: 202 N. McDowell Blvd
Petaluma, CA 94954
PHONE: 707-370-0605 x3159

20. **CITY'S RIGHTS RESERVED:** The CITY reserves the right to reject any or all bids, to waive any minor irregularity in a bid, and to make awards to the lowest responsive, responsible bidder as it may best serve the interest of the CITY.

CITY: Petaluma
BY: 
DATE: 7/26/2023

END OF NOTICE INVITING
BIDS

ISSUED FOR BID

City of Petaluma, California

PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT

150 WELLER STREET, PETALUMA, CA 94952

ISSUED FOR BID - ADDENDUM 2



LOCATION MAP
SCALE: N.T.S.

SHEET INDEX

- G-001 TITLE AND SHEET INDEX
- G-002 NOTES, ABBREVIATIONS, & SYMBOLS (1 OF 3)
- G-003 NOTES, ABBREVIATIONS, & SYMBOLS (2 OF 3)
- G-004 NOTES, ABBREVIATIONS, & SYMBOLS (3 OF 3)
- C-101 EXISTING AND DEMOLITION SITE PLAN
- C-301 EXISTING GANGWAY PROFILES
- S-101 FLOATING DOCK CONFIGURATION
- S-102 EAST AND WEST GANGWAY PARTIAL PLANS
- S-301 EAST AND GANGWAY PROFILES
- S-501 SECTIONS AND DETAILS (1 OF 2)
- S-502 SECTIONS AND DETAILS (2 OF 2)
- S-503 FLOATING DOCK DETAILS

ALL PROJECT PLANS HAVE BEEN PREPARED AND REVIEWED TO COMPLY WITH CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND/OR THE CALIFORNIA BUILDING STANDARDS CODE (CBCS).

THESE PROJECT PLANS CONTAIN ELEMENT(S) THAT ARE NOT "TECHNICALLY FEASIBLE" AND/OR CAN'T MEET THE APPLICABLE CBCS BECAUSE IT WOULD CREATE AN "UNREASONABLE HARDSHIP." PLEASE SEE THE WRITTEN ANALYSIS SUPPORTING THIS DETERMINATION FILED UNDER THE PROJECT FILE.

DESIGNED BY _____

SIGNATURE _____ DATE _____

MAYOR
KEVIN MCDONNELL

COUNCIL MEMBERS
BRIAN BARNACLE
JANICE CADER-THOMPSON, DIST. 1
MIKE HEALY
KAREN NAU, DIST. 3
DENNIS POCEKAY
JOHN SHRIBBS, DIST. 2

CITY MANAGER
PEGGY FLYNN

DIRECTOR OF PUBLIC WORKS & UTILITIES
CHRISTOPHER BOLT

	SIGNATURE	DATE
CITY ENGINEER		
ENGINEERING MANAGER		
FIRE MARSHAL		
PARKS		
PLANNING		
POLICE		
UTILITY MANAGER		

DATE: JUNE 2023
DESIGNED BY: AMIAK
DRAWN BY: OFF/CM
CHECKED BY: WPR

PROJECT NO.
C14402010

CITY OF PETALUMA
PUBLIC WORKS & UTILITIES
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954
PH: 707-778-4546 FAX: 707-778-4508



PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
TITLE AND SHEET INDEX

SHEET
G-001
1 OF 12

DESIGN CRITERIA

1. THE COMPLETED STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE OF THE STATE OF CALIFORNIA, AS APPLICABLE.
2. THE COMPLETED STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE FOLLOWING DESIGN LIVE LOADS APPLIED IN CONJUNCTION WITH DESIGN DREDGE/MUDLINE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS:

STEEL PILES:
 DESIGN MUDLINE ELEVATION: -9 FEET (MLLW)
 STEEL FLOAT PILES TIP EL.: -35.3 FEET (MLLW)

CONCRETE:
 CAST-IN- PLACE CONCRETE: $f_c = 4,500$ PSI
 CONCRETE EXPOSURE: CLASSES F2, S0, W1, C1
 W/CM RATIO: 0.45
 REINFORCING BARS: ASTM A615 GR. 60
 EPOXY COATING: ASTM A775
 WELDED WIRE REINFORCEMENT ASTM 1064
 PROVIDE THE FOLLOWING COVER FOR REINFORCEMENT:
 CAST AGAINST EARTH: 3 IN
 EXPOSED TO EARTH, WEATHER, OR WATER:
 NO. 6 THROUGH NO. 18 BAR 3 IN
 NO. 5 BAR, W31, WIRE & SMALLER 3 IN

3. TIDAL DATUM INFORMATION IS TAKEN FROM DATUM OFFSETS TAKEN FROM NOAA V-DATUM CONVERSION STATION ID: 9415252, PETALUMA RIVER ENTRANCE CA, DATED SEP 12, 2016.
4. THE FOLLOWING REFERENCE DOCUMENTS WERE USED IN CONJUNCTION WITH THE SITE INFORMATION:

PETALUMA MARINA TURNING BASIN DOCK INSPECTION REPORT, DATED SEPTEMBER 2021, BY FOTH AND VAN DYKE & ASSOCIATES, INC.

5. THE STRUCTURES HAVE BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS COMPLETE. THE STABILITY OF THE STRUCTURES PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, CONNECTIONS, TEMPORARY BRACING, FORMS, SHORING, USE OF EQUIPMENT, AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF CONSTRUCTION BY THE OWNER AND ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS ONLY. LACK OF COMMENT BY THE OWNER AND ENGINEER OF RECORD WITH REGARD TO CONSTRUCTION PROCEDURES SHALL NOT BE INTERPRETED AS APPROVAL OR ACCEPTANCE OF SUCH PROCEDURES.

GENERAL NOTES:

1. POSSESSION AND USE OF THE MATERIAL CONTAINED ON THESE DRAWINGS IS GRANTED ONLY IN CONNECTION WITH ITS USE AS IT RELATES TO THE TITLED PROJECT, ANY OTHER USE, REPRODUCTION OR DISCLOSURE OF THE INFORMATION CONTAINED HEREON IS EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF FOTH.
2. IF, DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR FINDS A CONFLICT, ERROR, OR DISCREPANCY IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SO REPORT TO THE ENGINEER OF RECORD IN WRITING AT ONCE. BEFORE PROCEEDING WITH THE WORK AFFECTED THEREBY, THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM THE ENGINEER OF RECORD. WORK DONE BEFORE THE ENGINEER OF RECORD RENDERS HIS DECISION IS AT THE CONTRACTOR'S SOLE RISK.
3. THE WORK SHALL BE PERFORMED IN A GENERAL SEQUENCE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE

ENGINEER OF RECORD FOR REVIEW, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.

4. THE CONTRACTOR SHALL NOTE ALL APPROVED CHANGES AND OTHER OCCURRENCES AND SUBMIT A FULL SIZE COMPLETE "RECORD DRAWING" SET NOTED AND DATED ON THE DRAWINGS TO THE PROJECT ENGINEER PRIOR TO ACCEPTANCE OF THE WORK.
5. ALL IN-WATER WORK SHALL BE COMPLETED BY NOVEMBER 30, 2023.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL MATERIAL AND WORKMANSHIP FULLY CONFORMS TO THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITY OF PETALUMA.
7. STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE OF THE STATE OF CALIFORNIA. WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL PERMIT CONDITIONS.
8. SECTIONS AND DETAILS APPLY TO THE SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
9. THE BATHYMETRIC DATA SHOWN ON THIS PLAN WAS GATHERED ON OCTOBER 19, 2022.
10. THE DATUM IS DEFINED RELATIVE TO THE MEAN LOWER LOW (MLLW) WATER SURFACE ELEVATION TIME SERIES FROM THE NOAA PETALUMA RIVER ENTRANCE, STATION# 9415252.
11. ANNUAL HIGH TIDE LINE (AHTL) IS FROM THE NOAA STATION #9414252 ON 1/21/23.
12. COORDINATES ARE BASED ON NAD 83 STATE PLANE CALIFORNIA ZONE II.
13. BATHYMETRIC DATA IS REFERENCED TO PRIMARY BM "USACE PK NAIL" REPORTED AT +10.0 FT. MLLW, AND LOCATED THE PETALUMA MARINA IN PETALUMA, CA.
14. THE HYDROGRAPHIC SURVEY SYSTEM COMPRISED OF A 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM, AND LEAD LINES, AS WELL AS HYPACK ACQUISITION SOFTWARE.
15. RTK-GPS POSITION CORRECTIONS WERE SUPPLIED BY KEYNET.
16. SHORELINE, BRIDGES, PIERS, ETC. ARE SCALED FROM ORTHOIMAGERY. ORTHOIMAGERY AND SCALED DATA IS APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.
17. TOPOGRAPHIC INFORMATION SHOWN IS FROM A SURVEY PERFORMED BY CINQUINI & PASSARINO, INC. ON MAY 18, 2023.
18. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FOTH & VAN DYKE AND ASSOCIATES, INC. FOR MORE DETAILED INFORMATION.

BATHYMETRIC SURVEY NOTES:

1. PROJECT NAME: PETALUMA TURNING BASIN 2022 AD SURVEY
2. PROJECT NUMBER: 20P015.00
3. SURVEY DATE: OCTOBER 19, 2022
4. SURVEYOR: BAY MARINE SERVICES
5. TRANS./FATH.: 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM
6. WEATHER COND: 75°, PARTLY SUNNY
7. PROJECT DATUM: MLLW
8. COOR. SYSTEM: NAD83, CALIFORNIA STATE PLANE ZONE II
9. BENCHMARK: DATA IS REFERENCED TO PRIMARY BM "USACE PK NAIL" REPORTED AT +10.0 FT. MLLW, AND LOCATED THE PETALUMA MARINA IN PETALUMA, CA.
10. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF HYDROGRAPHIC SURVEYS PERFORMED ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE SEABED CONDITIONS AT THAT TIME.

TOPOGRAPHIC SURVEY NOTES:

1. PROJECT NAME: PETALUMA TURNING BASIN DOCKS
2. PROJECT NUMBER: 10154-23
3. SURVEY DATE: MAY 18, 2023
4. SURVEYOR: CINQUINI & PASSARINO, INC.
5. PROJECT DATUM: MLLW
6. COOR. SYSTEM: NAD83, CALIFORNIA STATE PLANE ZONE II
7. BENCHMARK: B.S. CONTROL POINT NUMBER 230. ELEVATION 15.98 FEET NAVD88.

CONCRETE FLOATS:

1. THE CONCRETE FLOATING DOCK SYSTEM WILL BE PROVIDED TO THE CONTRACTOR BY OWNER FOR INSALLATION. CONTRACTOR SHALL COORDINATE WITH CONCRETE FLOAT SUPPLIER FOR DELIVERY, INSTALLATION METHODS, AND ANY ADDITIONAL INFORMATION REQUIRED FOR INSTALLATION OF THE CONCRETE FLOATS.
2. THE CONTRACTOR WILL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF DELIVERY OF CONCRETE FLOATS AS PROVIDED BY THE OWNER. FLOATS WILL BE DELIVERED VIA BARGE TO THE PROJECT SITE. CONTRACTOR SHALL RECEIVE DELIVERY OF FLOATS AND GUARANTEE THAT THEY WILL BE HANDLED IN SUCH A MANNER AS TO NOT INDUCE STRESSES WHICH WILL DAMAGE THE MATERIALS AND STORED IN A SAFE MANNER WITHIN DESIGNATED AREAS PROVIDED AT THE SITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND RECEIVING THE SHIPMENT OF FLOATS FROM BELLINGHAM MARINE, WHERE THEY SHALL BE TRANSFERRED, STORED AND TAKEN INTO THE CONTRACTOR'S POSSESSION FOR INSTALLATION.
4. THE CONTRACTOR SHALL LIFT AND SUPPORT PRECAST FLOATS AT THE LIFTING AND SUPPORTING POINTS INDICATED ON THE MANUFACTURER'S APPROVED SHOP DRAWINGS.
5. THE CONTRACTOR SHALL STORE PRECAST FLOATS OFF THE SEPARATE STACKED PRECAST FLOATS BY BATTENS ACROSS THE FULL WIDTH OF EACH BEARING PROTECT FROM WEATHER, MARRING, DAMAGE, AND OVERLOAD.
6. PRIOR TO ERECTION, AND AGAIN AFTER INSTALLATION, PRECAST FLOATS SHALL BE CHECKED FOR DAMAGE, SUCH AS CRACKING, SPALLING, AND HONEYCOMBING. PRECAST FLOATS THAT DO NOT MEET THE SURFACE REQUIREMENTS SHALL BE REPAIRED PER MANUFACTURER'S APPROVED RECOMMENDATIONS.
7. PRECAST FLOATS SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED SHOP DRAWINGS. BRACE PRECAST FLOATS, UNLESS DESIGN CALCULATIONS SUBMITTED WITH THE SHOP DRAWINGS INDICATE BRACING IS NOT REQUIRED. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM CONSTRUCTION LOADS.
8. PROVIDE ANCHORAGE FOR FASTENING WORK IN PLACE. CONCEAL FASTENERS WHERE PRACTICABLE. MAKE THREADED CONNECTIONS UP TIGHT AND NICK THREADS TO PREVENT LOOSENING.

SELECTIVE DEMOLITION & DISPOSAL:

1. SELECTIVE DEMOLITION AND DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL PERMIT AND BUILDING CODE REQUIREMENTS.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THOSE STRUCTURES AND DERELICT COMPONENTS AS INDICATED ON THE DRAWINGS.
3. SELECTIVE DEMOLITION INCLUDES BUT IS NOT LIMITED TO REMOVAL AND REUSE (WHERE POSSIBLE) OF EXISTING MATERIALS, UTILITIES, AND OTHER COMPONENTS ESSENTIAL FOR A COMPLETE PROJECT.
4. THE CONTRACTOR SHALL TAKE REASONABLE CARE IN REMOVING ELEMENTS SELECTED TO BE DEMOLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAMAGE OR DESTRUCTION BY THE CONTRACTOR TO EXISTING ELEMENTS DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED IN-KIND AT THE DISCRETION OF THE OWNER AT NO ADDITIONAL COST.

5. ITEMS TO BE REMOVED AND REUSED SHALL BE PLACED IN A STAGING AREA ACCESSIBLE FOR INSPECTION BY THE OWNER AND/OR ENGINEER.
6. PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION, THE CONTRACTOR SHALL SUBMIT A DISPOSAL PLAN FOR ITEMS TO BE DEMOLISHED. DEMOLITION MATERIAL DESIGNATED BY THE OWNER TO BE REMOVED FROM THE SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE DEBRIS DISPOSAL PLAN SHALL ACKNOWLEDGE THIS OWNERSHIP AND SHALL IDENTIFY THE MEANS AND METHODS AND FINAL DISPOSITION FOR DISPOSAL MATERIALS.
7. PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL CLEARLY MARK THE LIMITS OF THE DEMOLITION FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER.
8. COMPLETELY REMOVE ITEMS DESIGNATED LEAVING SURFACES CLEAN, SOUND, AND READY TO RECEIVE NEW MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE COURSE OF DEMOLITION.
10. THE CONTRACTOR SHALL SUBMIT A DISPOSAL CERTIFICATE TO THE OWNER'S REPRESENTATIVE CERTIFYING LEGAL AND PROPER DISPOSAL.
11. FLAGPOLE FOUNDATION AND FLAGPOLE TO BE DEMOLISHED AND DISPOSED. FLAGPOLE PLAQUE SHALL BE PROTECTED DURING DEMOLITION AND RETURNED TO THE CITY

ASPHALT:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IN-KIND PATCH REPAIR UTILIZING A HOT MIX ASPHALT. SURFACE PREPARATION AND REPAIR SHALL BE IN ACCORDANCE WITH 2022 CALTRANS STANDARD SPECIFICATIONS. ASPHALT MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

RIP RAP AND STONE ARMORING

1. STONE SHALL BE OF A QUALITY TO ENSURE THE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE FREE FROM ORGANIC DEBRIS, DURABLE, SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING OR PLACEMENT. ORGANICS, SAND, CLAY, CHERT, AND ROCK FINES ARE PROHIBITED. THE STONE SHALL BE SELECTED GRANITE, QUARTZITE, RHYOLITE, OR LIMESTONE.
2. SIZE OF THE STONE SHALL BE AS FOLLOWS UTILIZING THE WEIGHTS AND DIMENSIONS GIVEN IN AVERAGE, MAXIMUM, AND MINIMUM AS FOLLOWS:
 - a. ARMOR STONE:
 - AVG WEIGHT (W_{50}): 45 LBS.; - D_{50} : 8 INCHES
 - MIN WEIGHT (W_{MIN}): 20 LBS.; - D_{MIN} : 6 INCHES
 - MAX WEIGHT (W_{MAX}): 70 LBS.; - D_{MAX} : 9 INCHES
 - b. BEDDING LAYER:
 - CRUSHED STONE #3
3. NO MORE THAN 15% OF THE ARMOR SHALL BE SCATTERED SPALLS AND STONES LESS THAN 12 INCHES.
4. STONE SHALL BE PLACED IN A MANNER TO PRODUCE A WELL-GRADED MASS WITHOUT CAUSING DISPLACEMENT OF THE UNDERLYING MATERIAL. THE FINISHED SURFACE SHALL BE FREE FROM POCKETS OF SMALL STONES AND CLUSTERS OF LARGE STONES.

DATE: JUNE 2023
 DESIGNED BY: AMIAK
 DRAWN BY: OFF/CM
 CHECKED BY: WPR

PROJECT NO.
 C14402010

CITY OF PETALUMA
 PUBLIC WORKS & UTILITIES
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT NOTES, ABBREVIATIONS, & SYMBOLS

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TEMPORARY WORK:

- LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK THAT, UPON COMPLETION, ARE NOT A PART OF THE WORK, SHALL BE FURNISHED, INSTALLED, AND SUBSEQUENTLY REMOVED FROM THE SITE BY THE CONTRACTOR.
- TEMPORARY WORK SHALL BE SUBJECT TO THE REQUIREMENTS OF THE STATE AND APPLICABLE LOCAL BUILDING CODES.
- DURING EXECUTION OF THE WORK, THE CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN REQUIRED SEDIMENTATION AND EROSION CONTROL MEASURES TO PROTECT ADJACENT WATERWAYS, STREETS, AND PROPERTIES. MEASURES WHICH MAY INCLUDE BUT NOT BE LIMITED TO TEMPORARY BERMS, HAY BALES, SILT FENCES, CONTAINMENT BOOMS, AND TURBIDITY CURTAINS. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN TEMPORARY CONTROLS DURING CONSTRUCTION. TEMPORARY MATERIALS AND EQUIPMENT SHALL CONFORM TO REQUIREMENTS FOR TEMPORARY WORK.

GEOTECHNICAL NOTES:

- SOIL BORINGS WERE COMPLETED IN MARCH OF 2023 BY MILLER PACIFIC ENGINEERING GROUP. BORING INFORMATION IS PROVIDED AS AN ATTACHMENT TO THE CONTRACT DOCUMENTS.

FIELD-PROBING:

- THE CONTRACTOR SHALL CONDUCT A FIELD-PROBING PROGRAM, PRIOR TO PILE INSTALLATION, AT THE APPROXIMATE LOCATION OF THE PROPOSED FLOAT PILES. THIS PROBING PROGRAM SHALL DETERMINE IF THE PROPOSED PILE LOCATION SHALL REQUIRE RELOCATION OR IF ROCK SOCKETING SHALL BE REQUIRED IN ORDER TO REACH THE TIP ELEVATION SPECIFIED ON THE PLANS.
- THE CONTRACTOR'S PROBING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MOBILIZATION TO THE SITE.
- UPON COMPLETION OF THE PROBING PLAN, THE CONTRACTOR SHALL SUBMIT RESULTS TO THE ENGINEER FOR CONFIRMATION OF ROCK SOCKET REQUIREMENTS.

PILE DRIVING:

- STEEL PILES SHALL BE DRIVEN WITH AN VIBRATORY HAMMER TO A MINIMUM EMBEDMENT LENGTH AS LISTED BELOW:
 STEEL PILES: 16"Ø X 0.375" WT PIPE PILES
 TIP ELEVATION: -35.3 FT
 TOP ELEVATION: 15.0 FT
- DRIVE PILES WITH AN AIR OR DIESEL OPERATED VIBRATORY HAMMER, WITH SUFFICIENT ENERGY AND ENERGY TRANSFER CHARACTERISTICS TO DRIVE THE PILES TO THE REQUIRED CAPACITY AND TOE ELEVATIONS WITHOUT DAMAGING THE PILE HEAD. USE CAUTION NOT TO INJURE THE PILES BY OVER DRIVING AS WOULD BE INDICATED BY REBOUND OF HAMMER OR STAGGERING OF PILE. CUT OFF HEADS OF PILES ACCURATELY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AFTER COMPLETION OF DRIVING.
- DRIVE THE PILES STRAIGHT AND TRUE AT INDICATED LOCATIONS, WITH DEVIATION FROM THE LONGITUDINAL AXIS OF NOT MORE THAN 1/4 INCH PER FOOT.
- LOCATE THE PILES WITHIN 3 INCHES OF THE POSITIONS INDICATED ON THE DRAWINGS.

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- THE CONTRACTOR SHALL ASSUME THAT FLOATS WILL NOT BE DELIVERED PRIOR TO THE INSTALLATION OF THE PILES.
- CONTINUOUSLY DRIVE EACH PILE TO REACH THE CAPACITY AND FULL EMBEDDED LENGTH CALLED FOR ON THE DRAWINGS.
- WITHDRAW PILES THAT ENCOUNTER UNDERGROUND OBSTRUCTIONS SUFFICIENT TO IMPEDE PILE DRIVING. REDRIVE AS CLOSE AS POSSIBLE TO ORIGINAL POSITION, SUBJECT TO REVIEW OF THE OWNER. REMOVE PILES WHICH SPLIT, BROOM, BREAK OR DRIVE OUT OF LINE. DRIVE ANOTHER PILE IN ITS PLACE. PROVIDE AND MAINTAIN NECESSARY LIGHTING AND BARRIERS TO ADEQUATELY ASSURE PUBLIC SAFETY. PROVIDE ADEQUATE SAFEGUARDS TO PROTECT FROM DAMAGE IMPROVEMENTS ON THE WORK SITE AND ON ADJACENT PROPERTIES.
- USE SUITABLE CUSHIONS OR DRIVING HEADS TO AVOID DAMAGE TO THE PILES, DEVELOPING PROPER TOTAL DRIVING ENERGY, AND DIRECTING THE ENERGY ALONG THE LONGITUDINAL CENTER OF GRAVITY OF THE PILE.
- DRIVE PILES TO THEIR FULL PENETRATION WITHOUT BENDING, RUPTURING, OR SEVERELY DAMAGING THE PILES. IF FAILURE IN THE ABOVE RESPECTS IS ENCOUNTERED, PULL THE PILE AND DRIVE A NEW PILE AT NO ADDITIONAL COST TO THE OWNER.
- JETTING TO ASSIST PENETRATION WILL NOT BE PERMITTED UNLESS ACCEPTED BY THE ENGINEER OF RECORD. PRE-DRILLING WILL NOT BE PERMITTED UNLESS ACCEPTED BY THE ENGINEER OF RECORD, WHEREBY ACCEPTED PRE-DRILLING TO ASSIST PENETRATION MAY BE USED WHERE EXTREME DRIVING RESISTANCE IS ENCOUNTERED, OR WHERE VIBRATIONS FROM DRIVING MAY BE DETRIMENTAL TO ADJACENT STRUCTURES.
- WHERE PILES ARE PUSHED UP BY PRESSURE FROM DRIVING OF ADJACENT PILES, RE-DRIVE AS REQUIRED AND AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) ADDITIONAL 16" Ø X 3/8" W.T. STEEL PIPE PILE ON SITE TO ACCOMODATE ANY POTENTIAL SPLICING REQUIRED AS PART OF THIS WORK.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE DRIVING RECORD WITH THE DATE OF FINAL INSTALLATION AND TIP ELEVATIONS. THIS RECORD SHALL BE SUBMITTED WEEKLY AND SIGNED BY A REPRESENTATIVE OF THE CONTRACTOR. THE CONTRACTOR SHALL KEEP AN ACCURATE SET OF PILE RECORDS INDICATING PILE NUMBER, PILE TYPE AND INSTALLED LENGTH, TYPE OF IMPACT OR VIBRATORY HAMMER AND RATED ENERGY, DATE OF INSTALLATION, FINAL TIP ELEVATION, AND CONTRACTOR'S REPRESENTATIVE NAME AND SIGNATURE.

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL COMPLY WITH THE "STEEL CONSTRUCTION MANUAL", LATEST EDITION, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE - STEEL", AS ADOPTED BY THE AMERICAN WELDING SOCIETY (AWS D1.1). A WELDER CERTIFIED IN ACCORDANCE WITH AWS STANDARDS SHALL PERFORM WELDING.
- WELDING ELECTRODES SHALL BE E70XX AND COMPLY WITH AWS A5.1 AND AWS A5.5.
- STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A 572, GRADE 50. STEEL PLATES SHALL CONFORM TO ASTM A572, WITH 50 KSI YIELD.
- GALVANIZING SHALL CONFORM TO ASTM A 123 OR ASTM A 153, AS APPLICABLE.

PROTECTIVE COATING:

- MATERIAL USED FOR FACTORY EPOXY COATING OF ALL SCHEDULED SURFACES SHALL BE BAR_RUST 235 MULTI-PURPOSE EPOXY COATING AS MANUFACTURED BY DEVOE COATINGS OR EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
- FIELD TOUCH_UP COATING SHALL BE IDENTICAL TO FACTORY COATING AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- SURFACES SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE PROTECTIVE COATING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.
- THE PROTECTIVE COATING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COATING IS TO BE APPLIED IN TWO COATS TO ACHIEVE AN OVERALL DRY FILM THICKNESS OF 15 MILS.
- ALL HOLIDAYS OR OTHER IMPERFECTIONS IN THE COATING SHALL BE REMOVED OR REPAIRED AT THE CONTRACTORS EXPENSE PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- PROTECTIVE COATING TOP COAT OF SURFACES THAT WILL BE SUBMERGED IN SALT WATER SHALL BE BLACK UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR BY THE OWNER.
- SURFACES THAT WILL BE EXPOSED TO SUNLIGHT AND ABOVE THE WATER SHALL BE COATED WITH A MINIMUM OF 3 MILS OF A COMPATIBLE POLYURETHANE COATING. COLOR OF THIS TOP COAT SHALL BE COORDINATED WITH OWNER.

NON-SHRINK GROUT:

- GROUT SHALL BE CEMENT-BASED, NON-MATALLIC, NON-SHRINK GROUT CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- GROUT SHALL BE TESTED BY AN INDEPENDENT TESTING LABORATORY. GROUT SAMPLES SHALL BE TAKEN EVERY DAY OF GROUTING.

TOLERANCE OF WALKING SURFACES

- THE CONTRACTOR SHALL ENSURE A LEVEL TRANSITION BETWEEN ALL WALKING SURFACES.
- THE MAXIMUM PERMISSIBLE ELEVATION CHANGE BETWEEN WALKING SURFACES SHALL BE 1/4 INCH THAT SHALL INCLUDE THE SUM OF ALL FABRICATION AND INSTALLATION TOLERANCES OF ALL STRUCTURAL COMPONENTS THAT MAY INFLUENCE THE FINAL WALKING SURFACE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PILES, PILE CAPS, DECKING, SHIMS, GROUT, ETC.
- DECKING ERECTION IS SUBJECT TO SPECIAL INSPECTION TO ENSURE THAT A 1/4 INCH MAXIMUM HEIGHT DIFFERENTIAL IS MAINTAINED AT THE TRANSITION BETWEEN ALL WALKING SURFACES. ANY TRANSITION BETWEEN WALKING SURFACES THAT IS GREATER THAN 1/4 INCH IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S SOLE EXPENSE.

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UTILITIES

- CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY UTILITIES FOR CONSTRUCTION INCLUDING WATER, POWER, AND LIGHTING.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 800-642-2444 AT LEAST 2 WORKING DAYS (NOT INCLUDING THE DATE OF NOTIFICATION) BUT NOT MORE THAN 14 DAYS PRIOR TO THE START OF ANY EXCAVATION.
- CONTRACTOR SHALL VERIFY CONDITION OF ALL EXISTING UTILITIES PRIOR TO REMOVAL AND REPLACEMENT. REQUEST FOR APPROVAL TO SHUTOFF OR REMOVE ANY UTILITIES SHALL BE SUBMITTED TO THE ENGINEER 7 DAYS PRIOR TO WORK. NO UTILITIES SHALL BE REMOVED OR SHUT OFF WITHOUT PRIOR APPROVAL.
- ANY UTILITIES TEMPORARILY REMOVED OR RELOCATED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AFTER CONSTRUCTION AND TESTED AFTER RE-INSTALLATION.
- THE CITY OF PETALUMA SHALL BE NOTIFIED IN A TIMELY MANNER IN ORDER THAT THE PIPE AND CONNECTIONS CAN BE SCHEDULED FOR INSPECTION.
- SOLAR MARINE-GRADE, WATERPROOF DOCK LIGHTS SHALL BE INSTALLED ON BOTH SIDES OF THE FLOATING DOCK UNITS AT APPROXIMATELY 4'-0" O.C. THE DOCK LIGHTS SHALL HAVE A STEEL OR ALUMINUM FRAME AND BE INSTALLED IN A MANNER NOT TO CONFLICT WITH CLEATS.
- DOCK LIGHT LOCATION PLAN AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR ACCEPTANCE AND APPROVAL.

WROUGHT IRON FENCING AND GATES

- STYLE OF WROUGHT IRON FENCING AND GATES SHALL MATCH THE STYLE OF EXSISTING FENCING ALONG THE PETALUMA RIVER PLAZA ON THE WEST SIDE OF THE TURNING BASIN.
- ALL STEEL MATERIAL FOR FENCE AND GATE SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-787 AND ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
- CAST IRON USED FOR FABRICATION OF GATE SHALL CONSIST OF DUCTILE IRON AND BE GALVANIZED PRIOR TO POWDER COATING.
- ALL HARDWARE SHALL BE GALVANIZED.
- FENCING AND GATES SHALL BE POWDER COATED WITH A SATIN BLACK POLYESTER-BASEG TGIC POWDER COATING APPLIED TO 2.5 MILS TO ALL FINISHED PIECES. POWDER COARING SHALL CONTAIN A UV FADE INHIBITOR.
- BOTH GATE AND FENCING SHALL BE 8" HIGH.
- GATES SHALL BE MINIMUM OF 36" WIDTH AND BE INSTALLED IN COMPLIANCE WITH ADA REQUIREMENTS FOR CLEAR WIDTH AND MINIMUM MANUVERING CLEARANCES.
- GATES SHALL BE FITTED WITH CHAIN-LINK MESH INSTALLED TO PREVENT TAMPERING WITH LOCKS.
- LOCKS BY OTHERS.
- GATES, FENCING, HARDWARE, AND ALL ASSOCIATED COMPONENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- FENCE MOUNTING DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL MOUNT FENCE PANELS TO CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED WRITTEN INSTRUCTIONS.

ISSUED FOR BID

DATE: JUNE 2023
 DESIGNED BY: AMIAK
 DRAWN BY: OFF/CM
 CHECKED BY: WPR

PROJECT NO.
 C14402010

CITY OF PETALUMA
 PUBLIC WORKS & UTILITIES
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT NOTES, ABBREVIATIONS, & SYMBOLS

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FLOATING DOCK AND GANGWAY INSTALLATION

1. FLOATING DOCKS AND GANGWAY SHALL BE INSTALLED ACCORDING TO THE PLANS, RECOMMENDATIONS, AND PROCEDURES PROVIDED BY BELLINGHAM MARINE WHICH WILL BE PROVIDED TO THE CONTRACTOR UPON AWARD.

ENVIRONMENTAL IMPACTS:

1. IN ORDER TO REDUCE POTENTIALLY SIGNIFICANT IMPACTS GENERATED BY PILE DRIVING TO LEVELS BELOW SIGNIFICANCE, THE PROJECT PROPONENT SHALL IMPLEMENT A GOOD FAITH EFFORT TO CONDUCT PILE-DRIVING ACTIVITIES WITHIN THE ENVIRONMENTAL WORK WINDOW, WHICH IS OUTSIDE OF THE MIGRATORY PERIOD FOR LISTED FISH SPECIES AND INDICATES AN EXPECTED ABSENCE OF FISH IN THE PROJECT AREA.
2. SILT-CURTAINS SHALL BE UTILIZED DURING ALL PILE DRIVING ACTIVITIES TO LIMIT THE AMOUNT OF SUSPENDED SEDIMENT ENTERING THE WATER COLUMN. IN ACCORDANCE WITH THE SAN FRANCISCO BASIN PLAN WATER QUALITY OBJECTIVE.
3. DRILLING OR SAWING OF WOOD TREATED WITH PRESERVATIVES SHALL BE CONDUCTED ON LAND.
4. STOCKPILING OF MATERIALS, INCLUDING PORTABLE EQUIPMENT, VEHICLES AND SUPPLIES (E.G., CHEMICALS), WILL BE RESTRICTED TO THE DESIGNATED CONSTRUCTION STAGING AREAS, EXCLUSIVE OF ANY RIPARIAN AREAS; REFUELING OF ANY VEHICLES OR EQUIPMENT SHOULD BE DONE AT LEAST 100 FEET AWAY FROM THE RIVER.
5. ORANGE CONSTRUCTION FENCING SHOULD BE PLACED AROUND ALL EXISTING RIPARIAN AND/OR EMERGENT WETLAND VEGETATION TO AVOID POTENTIAL IMPACTS TO THIS SENSITIVE VEGETATION COMMUNITY DURING CONSTRUCTION ACTIVITIES NEAR THE PIER AND GANGWAY. PLACEMENT OF EXCLUSION FENCING SHOULD BE PERFORMED UNDER THE DIRECTION OF A BIOLOGIST TO ENSURE COMPLETE AVOIDANCE OF SENSITIVE RIPARIAN AND WETLAND HABITAT.
6. IN ADDITION TO ORANGE CONSTRUCTION FENCING, SILT FENCE SHOULD BE INSTALLED AND MAINTAINED BETWEEN THE STAGING AREA AND ADJACENT WATERWAY TO PREVENT ANY CONTAMINANTS FROM ENTERING THE WATERWAY.
7. BEST MANAGEMENT PRACTICES SHOULD BE EMPLOYED INCLUDING THE PREPARATION OF SPILL PREVENTION PLAN TO PREVENT DISCHARGE OR SPILLING OF MATERIALS OR LIQUIDS INTO THE ADJACENT WATERWAY OR RIPARIAN HABITAT AREA.
8. REMOVAL OF EXISTING TIMBER PILES SHALL BE PERFORMED WITH A VIBRATORY HAMMER. IF PILE BREAKS DURING THE REMOVAL PROCESS, THE CONTRACTOR SHALL CUT THE PILE BELOW MUDLINE.
9. WORK TO BE PERFORMED BY BARGE MOUNTED CRANE AND SUPPORTING EQUIPMENT AS REQUIRED.
10. THE PROPOSED REPLACEMENT PILES ARE TO BE INSTALLED AND HELD IN PLACE BY A BARGE MOUNTED CRANE IN ORDER TO DRIVE THE PILES.
11. THE PROPOSED REPLACEMENT PILES ARE TO BE DRIVEN WITH A VIBRATORY HAMMER TO THE GREATEST EXTENT POSSIBLE.
12. PILE DRIVING WILL BE CONDUCTED WITHIN THE SHORTEST TIME AS IS PRACTICABLE AND IN COMPLIANCE WITH METHODOLOGY APPROVED BY NMFS AND CDFW.
13. WHERE IT IS PRACTICAL TO DO SO, PROTECTIVE MATERIALS WILL BE USED TO PREVENT MATERIALS FROM ENTERING THE WATERWAY. THIS MAY INCLUDE SILT SCREENS DURING PILE DRIVING AND NETTING WHILE WORK IS PERFORMED ON THE DOCK AND GANGWAYS.

14. THE NUMBER OF ACCESS ROUTES, AND THE NUMBER AND SIZE OF STAGING AREAS, AND THE TOTAL AREA OF THE WORK SITE ACTIVITY WILL BE LIMITED TO THE MINIMUM NECESSARY TO COMPLETE THE PROJECT. THE DOCK WILL ARRIVE VIA BARGE TO MINIMIZE IMPACTS TO THE RIPARIAN ZONE. ANY WORK TO BE PERFORMED LANDSIDE WILL BE LIMITED TO THE LEAST EXTENT POSSIBLE TO MINIMIZE ANY POTENTIAL IMPACTS.
15. EROSION CONTROL MATERIALS (SILT FENCE AND STRAW WATTLES) WILL BE INSTALLED ALONG THE BANK TO PREVENT SEDIMENT FROM WASHING INTO THE RIVER DURING CONSTRUCTION.
16. TOXIC SUBSTANCES, PARTICULARLY WOOD PRESERVATIVES, WILL BE PREVENTED FROM FALLING INTO THE WATER. IN THE EVENT THAT ANY DRILLING OR SAWING OF WOOD TREATED WITH PRESERVATIVES IS PERFORMED, ALL WORK WILL BE CONDUCTED ON LAND AWAY FROM THE RIVER. THE USE OF WOOD TREATED WITH PRESERVATIVES IS NOT ANTICIPATED.
17. IN THE EVENT OF A FORECASTED STORM PRODUCE AT LEAST 0.10 INCH OF PRECIPITATION WITHIN A 24-HOUR PERIOD ALL EROSION CONTROL MATERIALS ARE TO BE LOCATED ON-SITE AND READY TO BE DEPLOYED. NO PHASE OF THE PROJECT WILL BE INITIATED IF EROSION CONTROL MEASURES CANNOT BE COMPLETELY INSTALLED PRIOR TO THE ONSET OF A STORM EVENT PREDICTED BY 72-HOUR WEATHER FORECASTS FROM THE NATIONAL WEATHER SERVICE.
18. STAGING/STORAGE AREAS FOR EQUIPMENT, MATERIALS, FUELS, LUBRICANTS, AND SOLVENTS, WOULD BE LOCATED OUTSIDE OF THE RIPARIAN AREA AND ABOVE THE TOP OF BANK AS FEASIBLE. ALL EQUIPMENT WILL BE MOVED AWAY FROM THE RIPARIAN AREA PRIOR TO REFUELING AND LUBRICATING. THE PROJECT MANAGER WILL ENSURE THAT CONTAMINATION OF HABITAT DOES NOT OCCUR DURING SUCH OPERATIONS DUE TO ACCIDENTAL SPILLS. ALL WORKERS WILL BE INFORMED OF THE IMPORTANCE OF PREVENTING SPILLS AND OF THE APPROPRIATE MEASURES TO TAKE SHOULD A SPILL OCCUR.

19. DURING ALL ACTIVITIES AND ONCE CONSTRUCTION IS OVER, ALL CONSTRUCTION TRASH THAT MAY ATTRACT PREDATORS WILL BE PROPERLY CONTAINED, REMOVED FROM THE WORK SITE, AND DISPOSED OF REGULARLY.
20. ALL TEMPORARILY DISTURBED AREAS WILL BE RESTORED TO PREVIOUS CONDITION AND COVERED WITH NATIVE GRASS SEEDING WHERE APPROPRIATE.
21. NO TREES ARE IDENTIFIED FOR FULL REMOVAL FOR THE PROJECT, HOWEVER IF ANY TREES ARE PERMANENTLY IMPACTED, THEY WILL BE REPLACED BY TREE PLANTING IN THE RIPARIAN ZONE AT A RATIO TO BE DETERMINED IN RESOURCE AGENCY PERMITS (I.E. CDFW 1600 SAA). ONLY NATIVE SHRUBS AND TREES FROM THE PETALUMA RIVER WATERSHED, WILL BE USED FOR REVEGETATION.
22. LIMBING AND TRIMMING OF BRANCHES FOR EQUIPMENT ACCESS WILL BE KEPT TO A MINIMUM AND BE CONDUCTED UNDER THE SUPERVISION OF THE PROJECT MANAGER.
23. ANY WORK DONE IN THE RIPARIAN ZONE THAT WILL DISTURB SOIL, WILL BE TREATED FOR EROSION CONTROL AT THE COMPLETION OF PROJECT. THIS WOULD INCLUDE SPREADING NATIVE GRASS SEEDING AND PLACEMENT OF EROSION CONTROL MATERIALS SUCH AS BIODEGRADABLE EROSION CONTROL BLANKETS AND STRAW WATTLES.
24. NO HEAVY EQUIPMENT WILL BE STORED OR REFUELED IN THE RESOURCE AREAS.
25. CONTRACTOR SHALL MINIMIZE IMPACTS TO COASTAL RESOURCE AREAS AT ALL TIMES DURING THE PROPOSED WORK.

SIGNAGE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FURNISHING AND INSTALLING ONE (1) SIGN AS SHOWN ON THE CONTRACT DOCUMENTS. THE SIGN INFORMATION SHALL BE PROVIDED UPON AWARD.

GENERAL SYMBOLS

EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	SHORELINE
-x-x-x-	-x-x-x-	FENCE LINE
[Hatched Box]	[Hatched Box]	BUILDINGS
■	■	POWER AND WATER PEDESTAL
●	●	STEEL PILES
○	○	TIMBER PILES
[Cross-hatched Box]	[Cross-hatched Box]	LIMITS OF DEMOLITION
[Diagonal-hatched Box]	[Diagonal-hatched Box]	TO BE PROTECTED
☀	☀	STREET LIGHT
⊕	⊕	FIRE HYDRANT
⊠	⊠	BORING
	P#	STEEL PILE DESIGNATION
	☀	SOLAR MOUNTED DOCK LIGHT

TIDAL STAGE	NAVD88	(MLLW)	(MLW)
MHHW	+6.30	+6.01	+5.07
MHW	+5.77	+5.48	+4.54
MLW	+1.23	+0.94	+0.00
MLLW	+0.29	+0.00	-0.94
NAVD88	+0.00	-0.29	-1.23

DATUM OFFSETS TAKEN FROM NOAA V-DATUM CONVERSION STATION ID: 9415252, PETALUMA RIVER ENTRANCE CA, DATED SEP 12, 2016

PERMITS DATE

PENDING

DOCUMENT TITLE

USACE LETTER OF PERMISSION
FILE NO. SPN-2021-00066
CDFW EPIMS NOTIFICATION NO. SON-16617 R3
SFBRWQCB PLACE ID: 875673

NOTE: THE ABOVE PERMITS HAVE BEEN OBTAINED FOR INSTALLATION OF THE CONCRETE FLOATS AND GANGWAY STRUCTURES. ISSUANCE OF PERMITS FOR PILE INSTALLATION ARE PENDING AND WILL BE PROVIDED UPON ISSUANCE.

ISSUED FOR BID

ABBREVIATIONS

AHTL	ANNUAL HIGH TIDE LINE
APPROX	APPROXIMATE
BH	BORE HOLE
CONC	CONCRETE
CONT	CONTINUED
Ø	DIAMETER
EX	EXISTING
FRP	FIBER-REINFORCED PLASTIC
IN	INCH
L	LENGTH
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MIN	MINIMUM
NTS	NOT-TO-SCALE
O.C.	ON CENTER
±	PLUS OR MINUS
PROP	PROPOSED
PSCC	PETALUMA SMALL CRAFT CENTER
PTB	PETALUMA TURNING BASIN
R	RADIUS
TYP	TYPICAL
USACE	U.S. ARMY CORPS OF ENGINEERS
VAR	VARIES

RECORD DRAWING REFERENCE			
NO.	DATE	DESCRIPTION	BY
1	07/10/23	Addendum 1	Foth
2	07/20/23	Addendum 2	Foth
3	07/28/23	Addendum 3	Foth

PROJECT RESOURCE DATA (FOR CITY USE)	
PROJECT START	
PROJECT END	
PROJECT CONTRACTOR	TBD
CONTRACTOR'S SUPER.	TBD
REGULATORY PERMITS	NA
PROJECT MANAGER	CITY OF PETALUMA
PROJECT INSPECTOR	FOTH & VAN DYKE AND ASSOCIATES, INC.
OTHER	

DATE: JUNE 2023
DESIGNED BY: AMIAK
DRAWN BY: OFF/CM
CHECKED BY: WPR

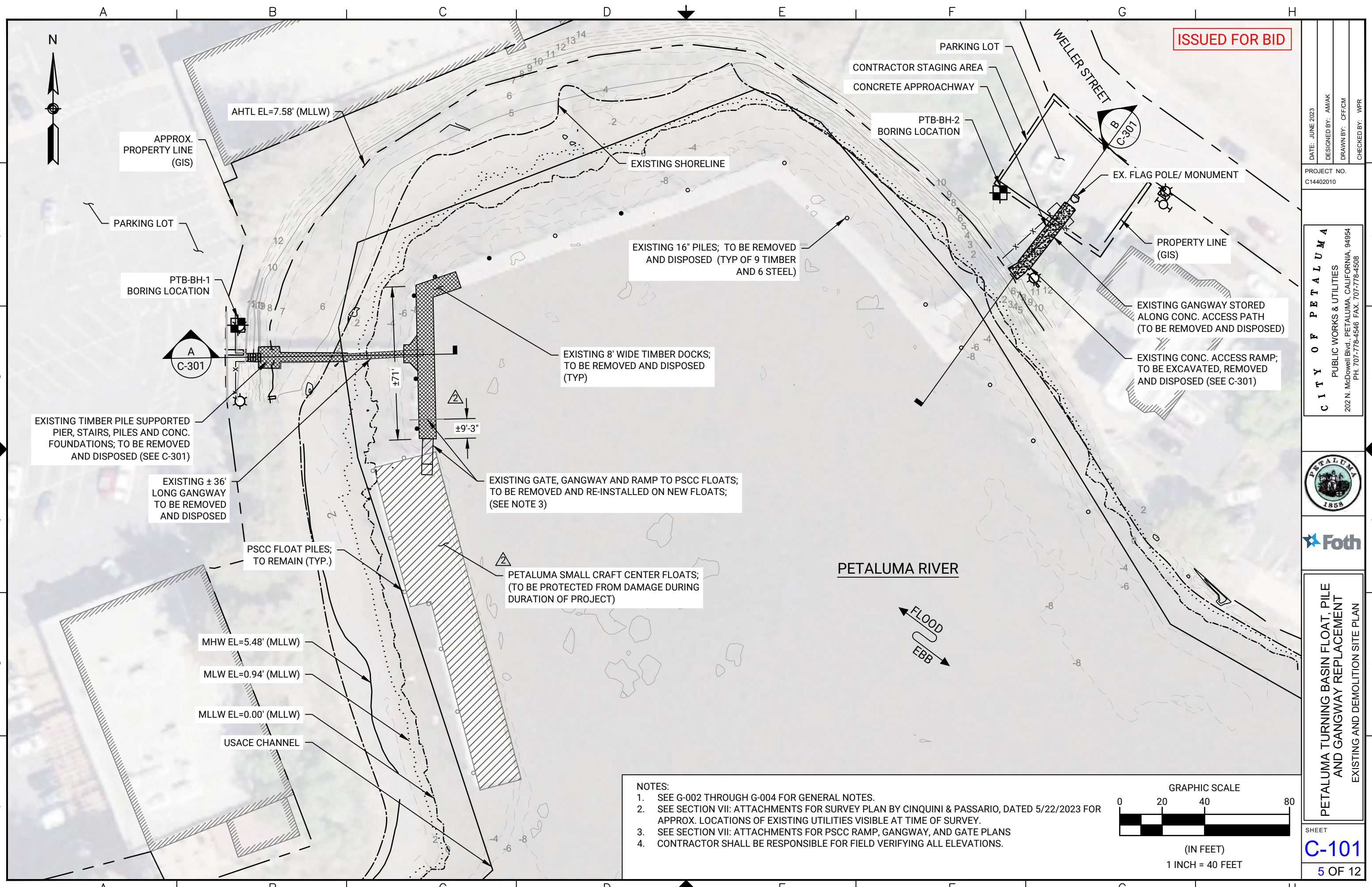
PROJECT NO. C14402010

CITY OF PETALUMA
PUBLIC WORKS & UTILITIES
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954
PH: 707-778-4546 FAX: 707-778-4508

Foth

PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
NOTES, ABBREVIATIONS, & SYMBOLS

SHEET **G-004**
4 OF 12



ISSUED FOR BID

DATE: JUNE 2023
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PROJECT NO.
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 EXISTING AND DEMOLITION SITE PLAN

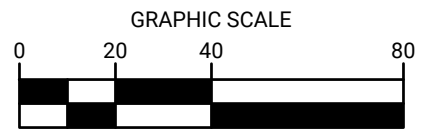
SHEET

C-101

5 OF 12

NOTES:

1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
2. SEE SECTION VII: ATTACHMENTS FOR SURVEY PLAN BY CINQUINI & PASSARIO, DATED 5/22/2023 FOR APPROX. LOCATIONS OF EXISTING UTILITIES VISIBLE AT TIME OF SURVEY.
3. SEE SECTION VII: ATTACHMENTS FOR PSCC RAMP, GANGWAY, AND GATE PLANS
4. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ELEVATIONS.



(IN FEET)
 1 INCH = 40 FEET

ISSUED FOR BID

- NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 2. EXISTING STRUCTURES SHOWN FOR REFERENCE ONLY. ACTUAL FIELD CONDITIONS OF STRUCTURES AND LIMITS OF DEMOLITION MAY VARY. CONTRACTOR SHALL FIELD VERIFY DEMOLITION LIMITS.
 3. CONTRACTOR SHALL FIELD VERIFY DEMOLITION LIMITS.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ELEVATIONS.

DATE: JUNE 2023
 DESIGNED BY: AM/AK
 DRAWN BY: OFF/CM
 CHECKED BY: WPR

PROJECT NO.
 C14402010

CITY OF PETALUMA
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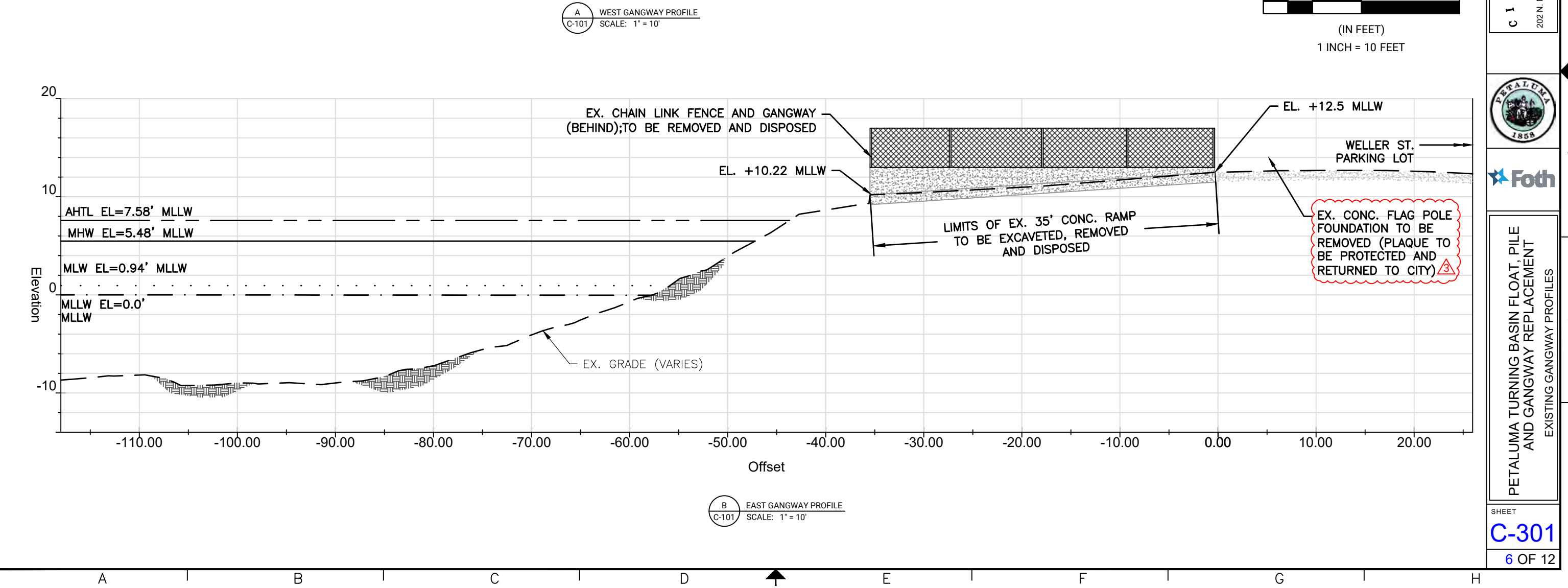
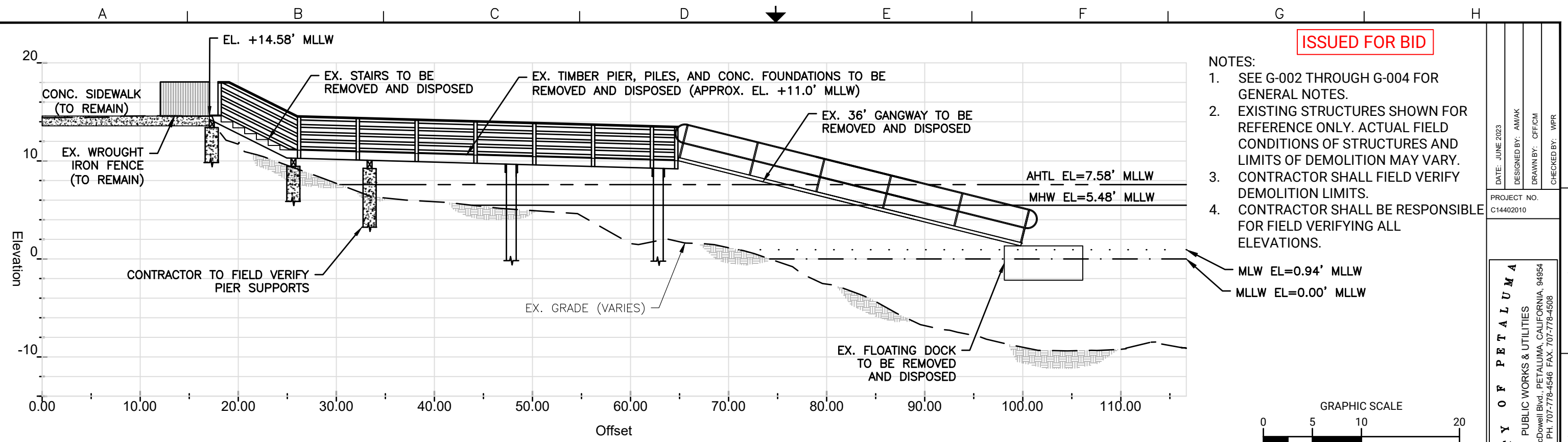


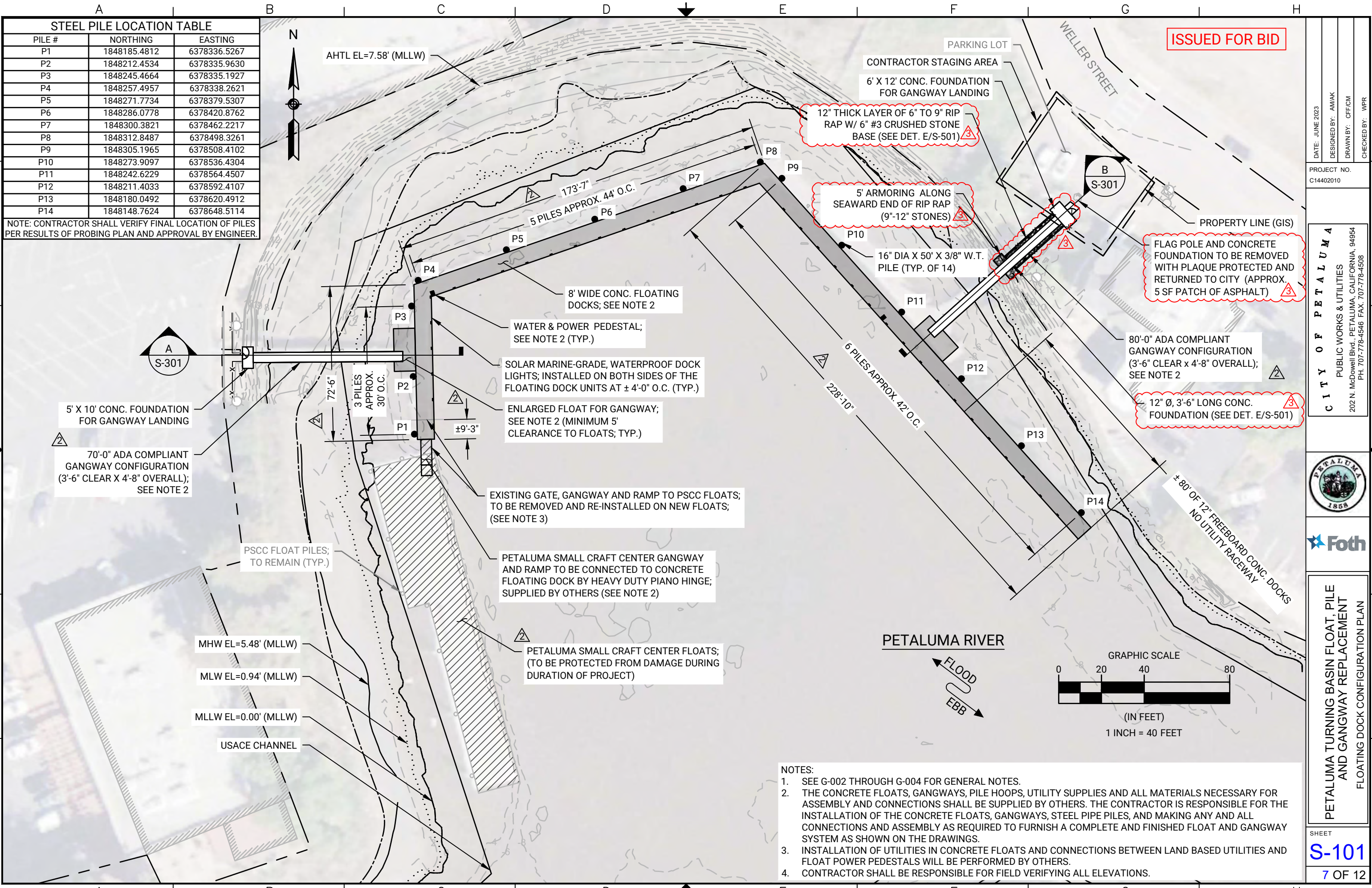
PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 EXISTING GANGWAY PROFILES

SHEET

C-301

6 OF 12





STEEL PILE LOCATION TABLE		
PILE #	NORTHING	EASTING
P1	1848185.4812	6378336.5267
P2	1848212.4534	6378335.9630
P3	1848245.4664	6378335.1927
P4	1848257.4957	6378338.2621
P5	1848271.7734	6378379.5307
P6	1848286.0778	6378420.8762
P7	1848300.3821	6378462.2217
P8	1848312.8487	6378498.3261
P9	1848305.1965	6378508.4102
P10	1848273.9097	6378536.4304
P11	1848242.6229	6378564.4507
P12	1848211.4033	6378592.4107
P13	1848180.0492	6378620.4912
P14	1848148.7624	6378648.5114

NOTE: CONTRACTOR SHALL VERIFY FINAL LOCATION OF PILES PER RESULTS OF PROBING PLAN AND APPROVAL BY ENGINEER.

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DATE: JUNE 2023
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 DRAWN BY: OFF/CM
 CHECKED BY: WPR

PROJECT NO.
 C14402010

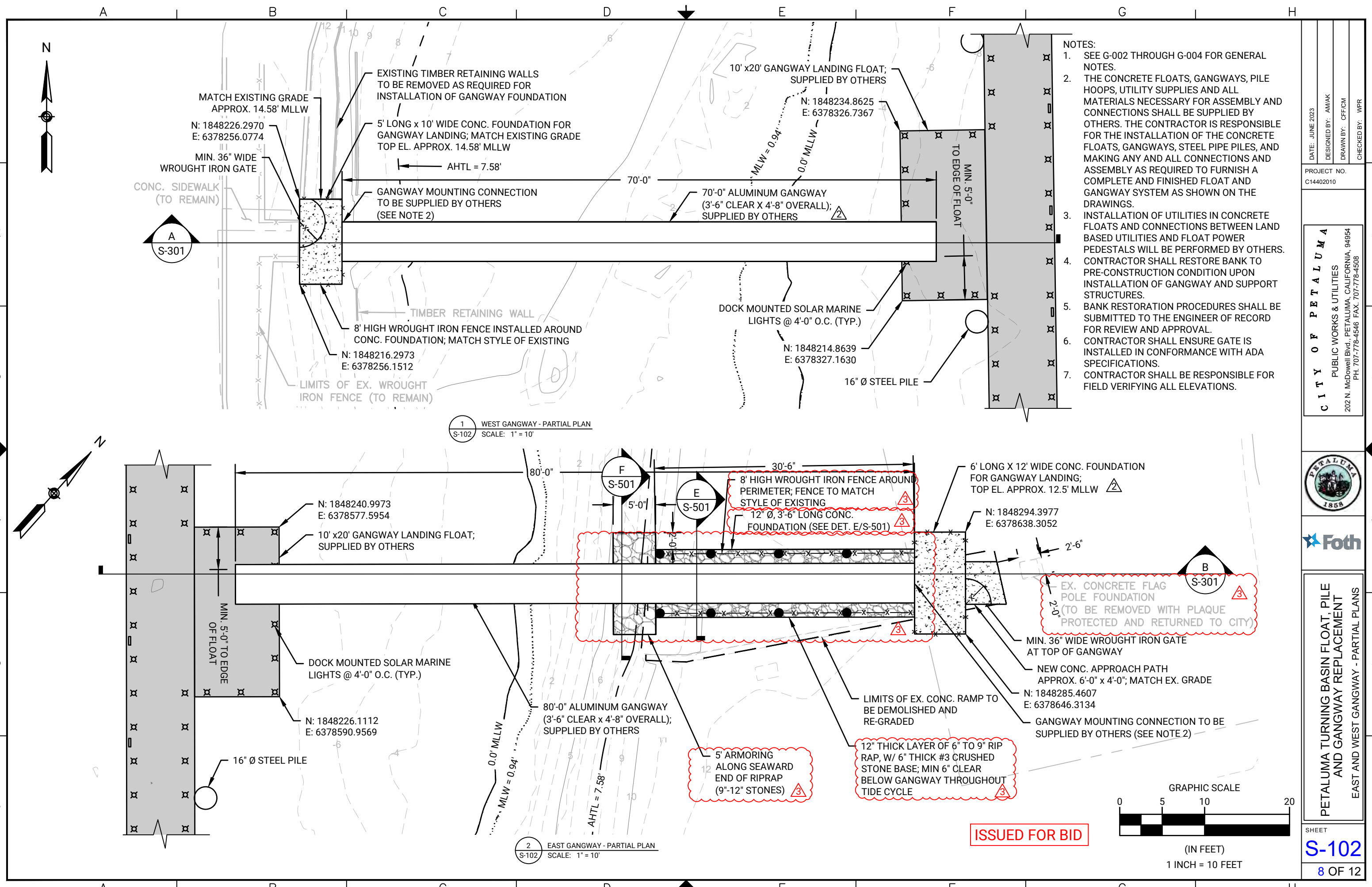
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 FLOATING DOCK CONFIGURATION PLAN

SHEET
S-101
 7 OF 12

- NOTES:
- SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 - THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
 - INSTALLATION OF UTILITIES IN CONCRETE FLOATS AND CONNECTIONS BETWEEN LAND BASED UTILITIES AND FLOAT POWER PEDESTALS WILL BE PERFORMED BY OTHERS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ELEVATIONS.

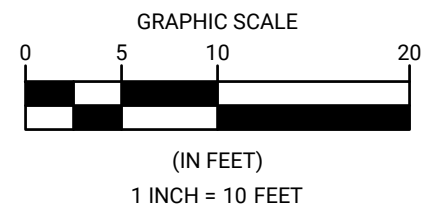


- NOTES:
- SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 - THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
 - INSTALLATION OF UTILITIES IN CONCRETE FLOATS AND CONNECTIONS BETWEEN LAND BASED UTILITIES AND FLOAT POWER PEDESTALS WILL BE PERFORMED BY OTHERS.
 - CONTRACTOR SHALL RESTORE BANK TO PRE-CONSTRUCTION CONDITION UPON INSTALLATION OF GANGWAY AND SUPPORT STRUCTURES.
 - BANK RESTORATION PROCEDURES SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
 - CONTRACTOR SHALL ENSURE GATE IS INSTALLED IN CONFORMANCE WITH ADA SPECIFICATIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ELEVATIONS.

DATE: JUNE 2023	DESIGNED BY: AM/AK	DRAWN BY: OFF/CM	CHECKED BY: WPR
PROJECT NO. C14402010			
CITY OF PETALUMA PUBLIC WORKS & UTILITIES 202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954 PH: 707-778-4546 FAX: 707-778-4508			
PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT EAST AND WEST GANGWAY - PARTIAL PLANS			
SHEET			
S-102			
8 OF 12			

ISSUED FOR BID

- NOTES:
- SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 - THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
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 - CONTRACTOR SHALL RESTORE BANK TO PRE-CONSTRUCTION CONDITION UPON INSTALLATION OF GANGWAY AND SUPPORT STRUCTURES.
 - BANK RESTORATION PROCEDURES SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ELEVATIONS.



A WEST GANGWAY PROFILE
S-101 SCALE: 1" = 10'

B EAST GANGWAY PROFILE
S-101 SCALE: 1" = 10'

DATE: JUNE 2023
DESIGNED BY: AM/AK
DRAWN BY: OFF/CM
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PROJECT NO.
C14402010

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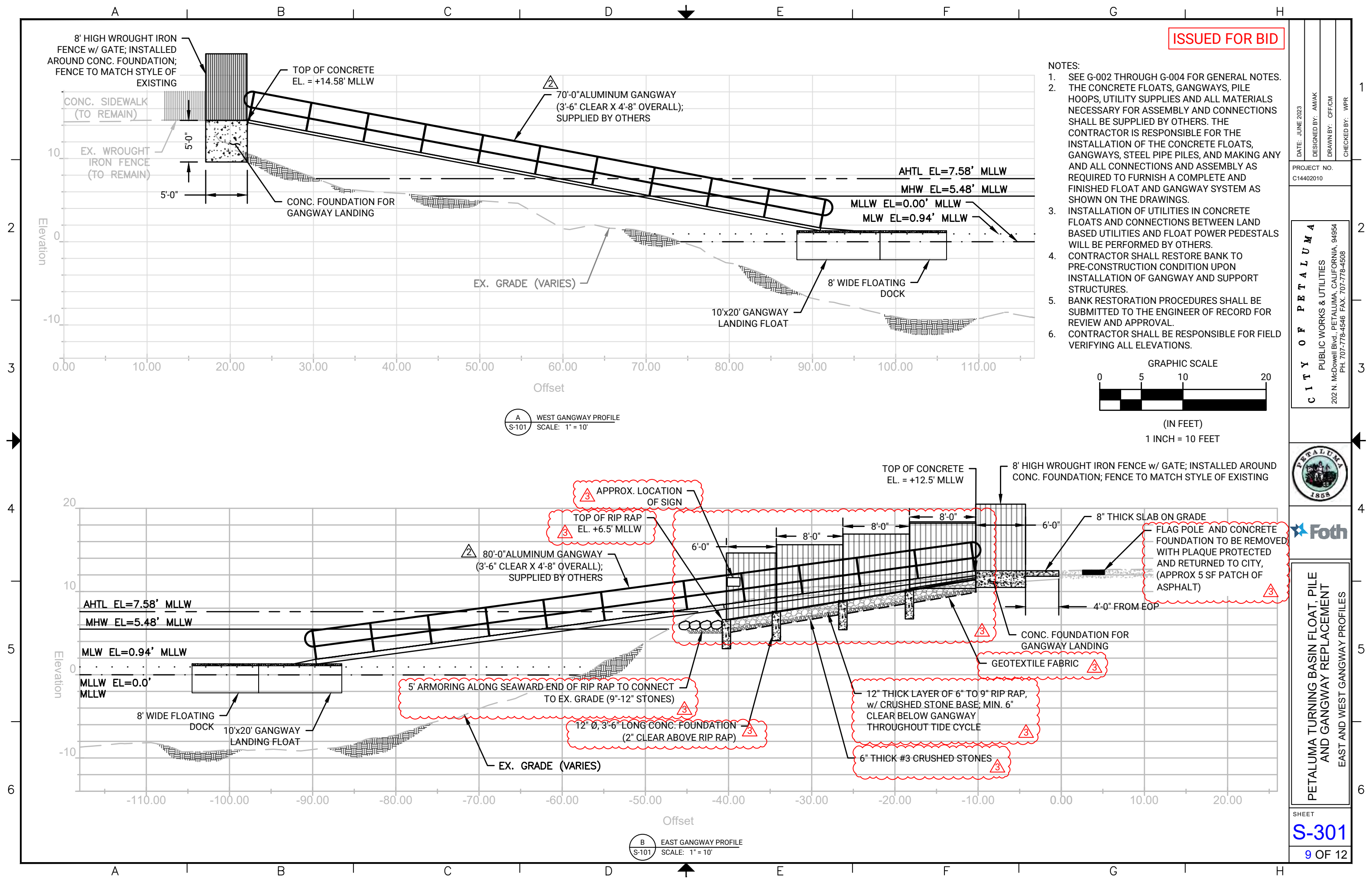


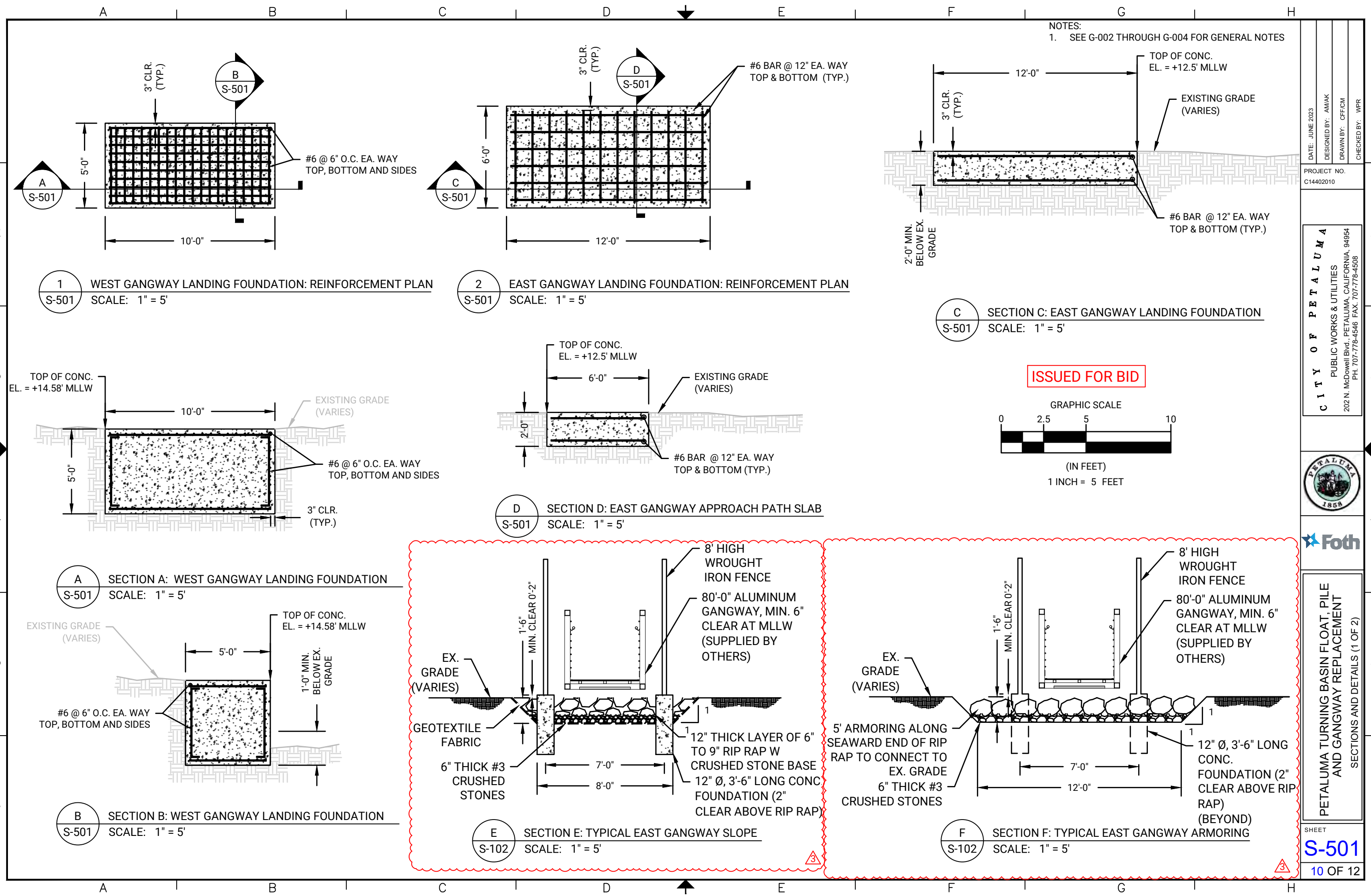
PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
EAST AND WEST GANGWAY PROFILES

SHEET

S-301

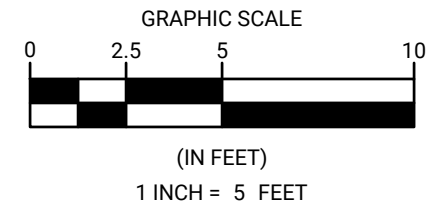
9 OF 12





NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES

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DESIGNED BY: AMAK
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CHECKED BY: WPR

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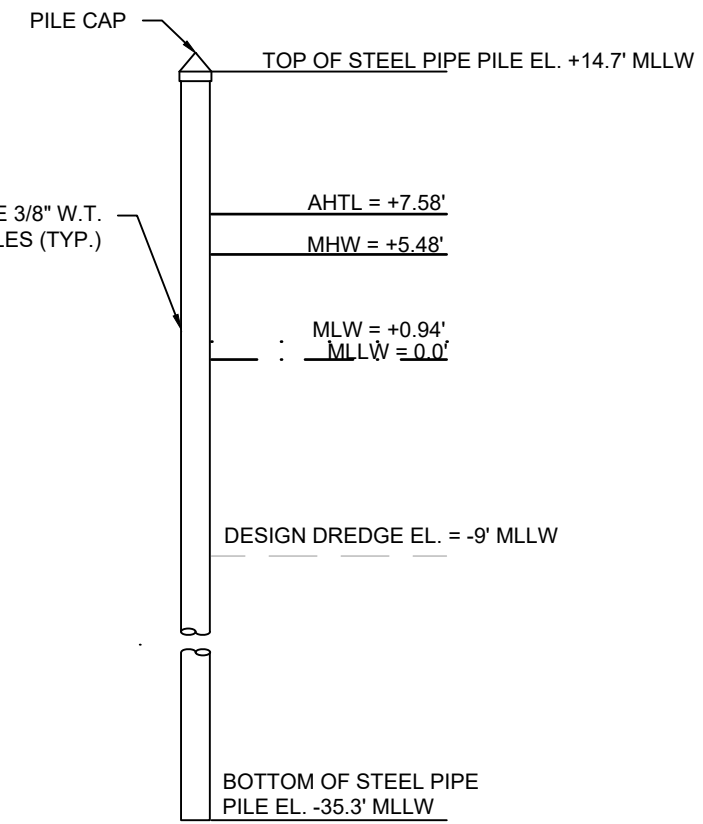
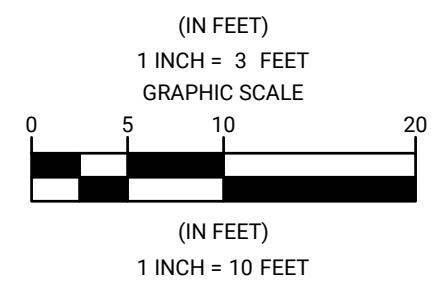
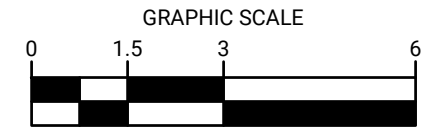
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
SECTIONS AND DETAILS (1 OF 2)

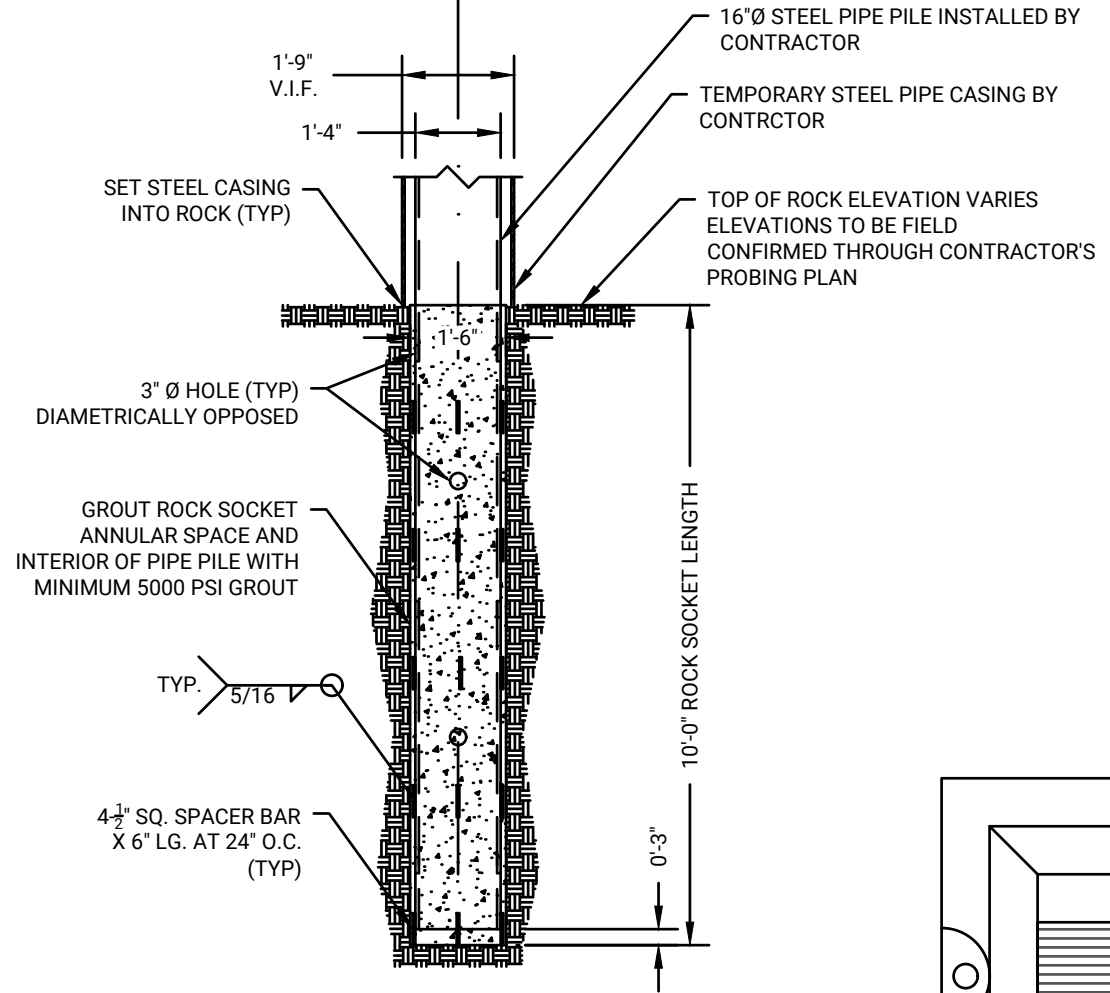
ISSUED FOR BID

NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES

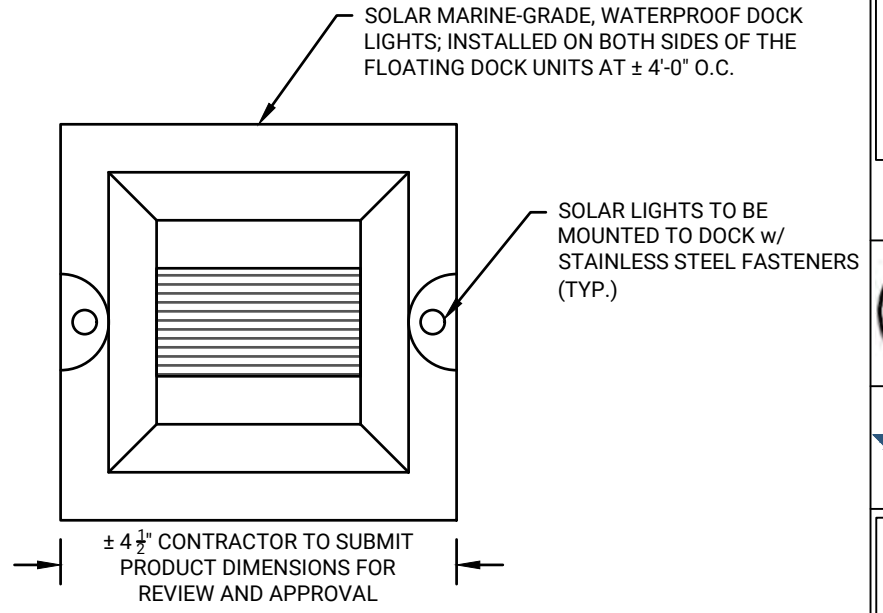


1 TYPICAL PILE DETAIL
S-502 SCALE: 1" = 10'

DETAIL NOTES:
1. STEEL PILES THAT DO NOT REACH REQUIRED TIP ELEVATION SHALL BE GROUTED IN ROCK SOCKET. SEE ROCK SOCKET DETAIL 2/S/502 ON THIS SHEET.



2 ROCK SOCKET DETAIL
S-502 SCALE: 1" = 3'



3 DOCK MOUNTED SOLAR MARINE LIGHTS
S-502 SCALE: NOT TO SCALE

DATE: JUNE 2023
DESIGNED BY: AM/AK
DRAWN BY: OFF/CM
CHECKED BY: WPR

PROJECT NO.
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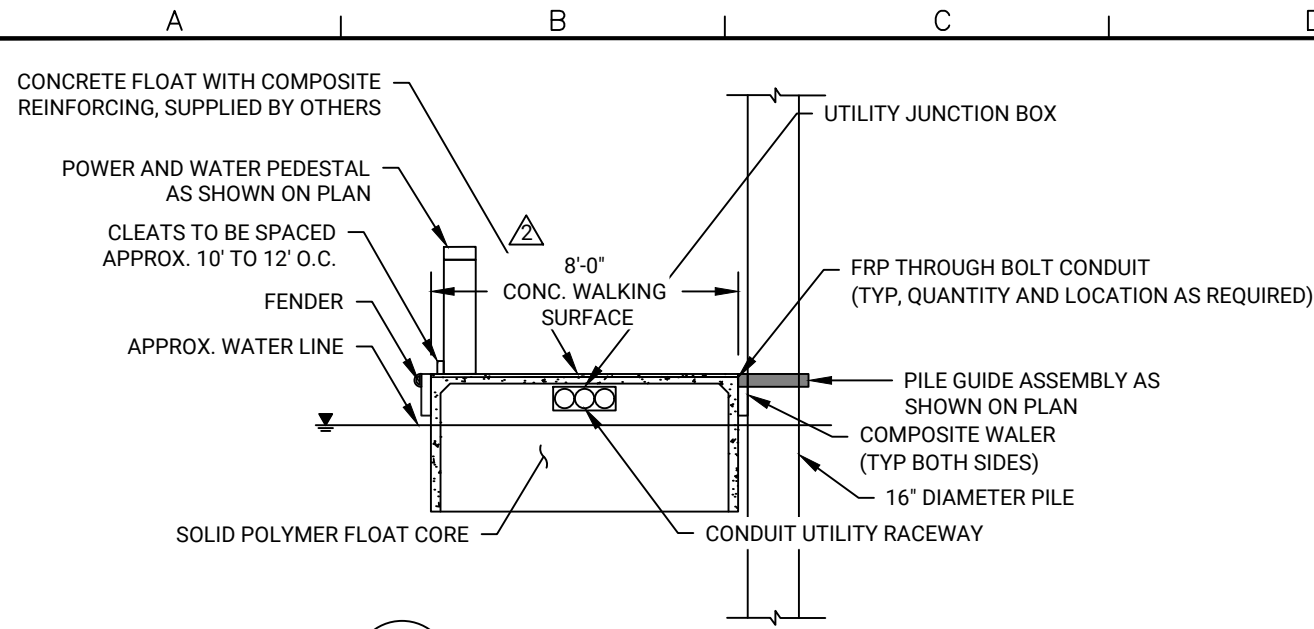
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
SECTIONS AND DETAILS (2 OF 2)

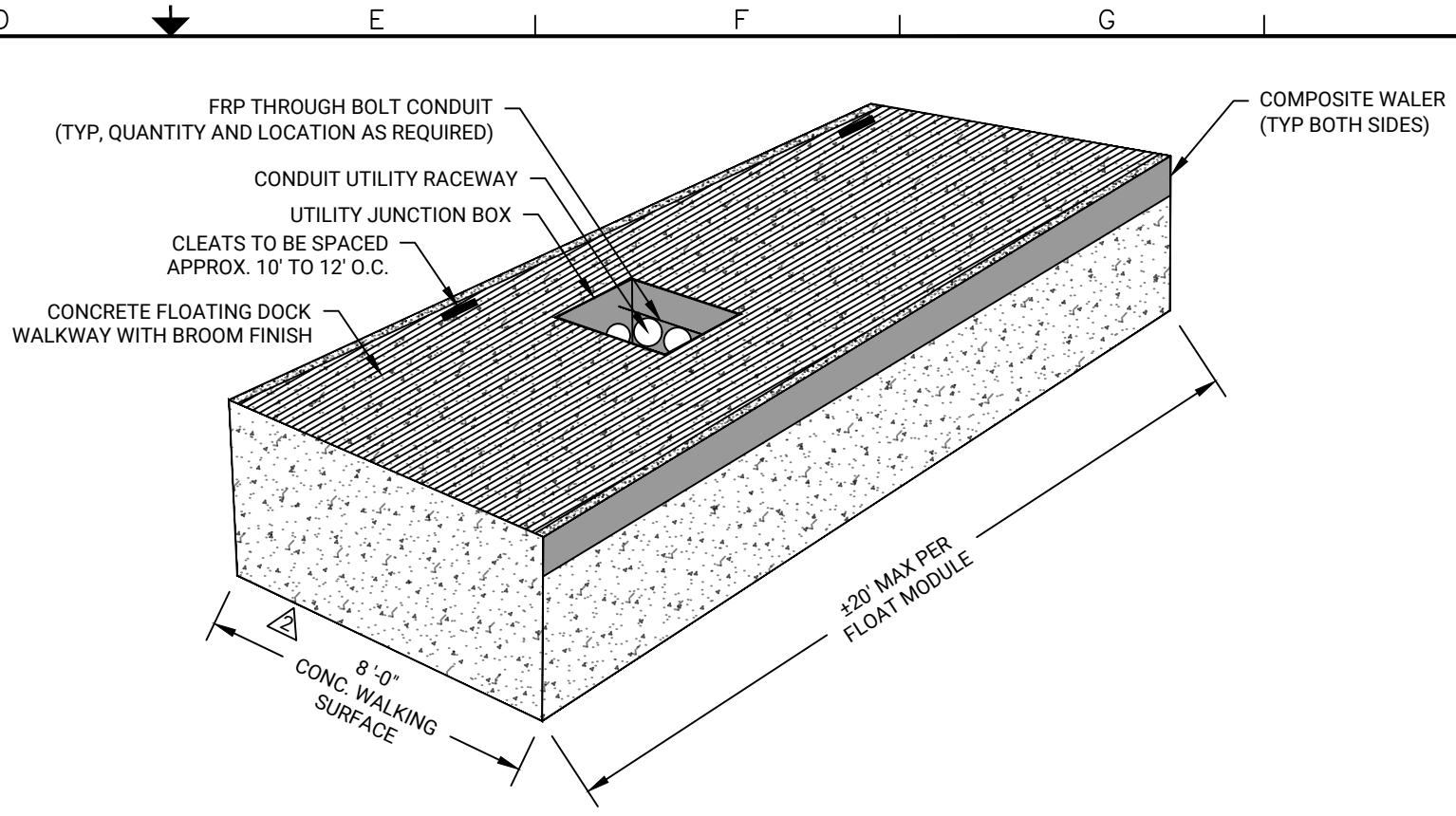
SHEET

S-502

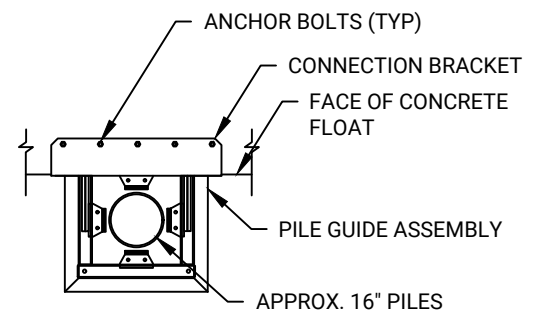
11 OF 12



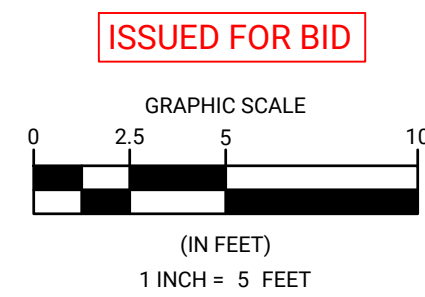
A TYPICAL FLOAT DETAIL (SUPPLIED BY OTHERS)
S-503 SCALE: 5'



B TYPICAL FLOAT DETAIL (SUPPLIED BY OTHERS)
S-503 SCALE: 1" = 5'



C TYPICAL EXTERIOR PILE GUIDE ASSEMBLY (SUPPLIED BY OTHERS)
S-503 SCALE: 1" = 5'



- NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 2. THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
 3. INSTALLATION OF UTILITIES IN CONCRETE FLOATS AND CONNECTIONS BETWEEN LAND BASED UTILITIES AND FLOAT POWER PEDESTALS SHALL BE PERFORMED BY OTHERS.
 4. CONTRACTOR SHALL RESTORE BANK TO PRE-CONSTRUCTION CONDITION UPON INSTALLATION OF GANGWAY AND SUPPORT STRUCTURES.

DATE: JUNE 2023
DESIGNED BY: AM/AK
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
FLOATING DOCK DETAILS

SHEET
S-503
12 OF 12

SECTION 01 22 05

REVISED MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Permits, drawings, and general provisions of Contract, including General and Supplementary Conditions and Specification sections, apply to work of this section.

1.2 UNIT PRICE BID ITEMS

- A. Payment items for the Work of this Contract on which the Contract Unit Price payments will be made are listed in Section I BID FORM as part of the Bid Schedule and described below.

- B. Lump Sum prices include:

- 1. Payment shall be made to the Contractor in accordance with accepted Progress Schedule and Schedule of Values on the basis of actual work completed.

- C. Unit Prices include:

- 1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all Unit Price Items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
 - 2. Payment shall be based on the actual amount of work accepted and for the actual amount of materials removed, as shown by the final measurements.
 - 3. All units of measurement shall be standard United States convention as applied to the specific items of work by tradition and interpreted by the Engineer.
 - 4. After the work is completed and before final payment is made, the Engineer will make final measurements to determine the quantities of various items of work accepted as the basis for final settlement.

1.3 SCOPE OF PAYMENT

- A. The quantities to be measured under the various bid items will be those quantities of work completed in accordance with the Contract Drawings and Specifications. The methods of measurement will be as stated hereinafter for the individual bid items.
- B. The unit or lump sum payment for all bid items in Section I BID FORM as part of the Bid Schedule, shall be full compensation for the work specified and shall include the cost of furnishing all supervision, materials, labor, tools, equipment, obtaining any/all additional permits and approvals, testing and surveys as required to perform all work

specified in accordance with the Contract, and all work and expenses incidental to and necessary to complete the work in accordance with the drawings and specifications. Payment for Lump Sum Work covers all Work necessary to furnish, install and/or complete the following items. The methods of payment will be as stated hereinafter for the individual bid items.

- C. Progress payment requests shall be submitted monthly.
- D. Payment for equipment, materials and labor for items not included on the Unit Price Bid Schedule, shall be considered incidental and no separate payment will be made.

1.4 METHOD OF MEASUREMENT

- A. Materials and items of work which are to be paid for on the basis of measurement shall be measured in accordance with the method stipulated in the particular sections involved. In determining quantities, all measurements shall be made in a horizontal plane unless otherwise specified.
 - 1. When material is to be measured and paid for on a volume basis and it would be impractical to determine the volume, or when requested by the Contractor in writing and approved by the City of its Engineer in writing, the material will be weighed and converted to volume measurement for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the City of its Engineer and shall be agreed to by the Contractor before such method of measurement of pay quantities will be adopted.
 - 2. Full compensation for all expense involved in conforming to the above requirements for measuring and weighing materials shall be considered as included in the unit prices paid for the materials being measured or weighed and no additional allowances will be made therefore.
 - 3. Quantities of material wasted or disposed of in a manner not called for under the Contract; or rejected loads of material, including material rejected after it has been placed by reason of failure of the Contractor to conform to the provisions of the Contract; or material not unloaded from the transporting vehicle; or material placed outside the lines indicated on the plans or given by the City of its Engineer; or material remaining on hand after completion of the Contract, will not be paid for and such quantities will be deducted from the final total quantities. No compensation will be allowed for hauling rejected material.

PART 2 - DISCRIPTION OF BID ITEMS

2.1 **BID ITEM 1 – MOBILIZATION/DEMOBILIZATION**

A. **WORK COVERED BY CONTRACT PRICE**

- 1. All work associated with the mobilization of the Contractor's materials, equipment, site preparation/restoration and temporary facilities furnished for this project shall be included in the contract lump-sum prices for Items of mobilization as listed in Section I BID FORM as part of the Bid Schedule.

2. Mobilization shall include all costs for operations accomplished prior to commencement of actual construction operations and all work to identify site conditions including but not limited to: transfer of materials and equipment to site including but not limited to barges, pile driving equipment, excavation equipment, concrete forming and testing equipment, support equipment or vessels, and all equipment needed for debris handling, separation and disposal of materials removed from the site; coordination and submittals as required; notifications; coordination with the regulatory agencies; obtaining any necessary permits and approvals not already in place for the work specified; construction of environmental controls required by the Permits with respect to protection of the environment; procurement of materials needed for construction; installation and maintenance of work area fencing, security measures, traffic controls, and temporary facilities; maintaining access for City operations; establishing horizontal and vertical control for all proposed work; registration/ training of project personnel and compliance with on-site security measures and any other work that is necessary in advance of the actual construction operations.
3. Demobilization shall include general preparation for transfer of plant to its home base, removal of equipment, and site restoration of all areas disturbed by the Contractor's operations to their pre-construction conditions, preparation and submittal of a complete set of Record "As-Built" Drawings and any additional project close-out submittals as required, and removal of all equipment and temporary construction facilities from the site.
4. There will be only one (1) mobilization / demobilization paid. If for any other reason, the Contractor must shut down and remove his equipment from the site, then remobilize; then the City will not be responsible for payment of any additional costs associated with such work or any remobilization costs.
5. Payment for Mobilization and Demobilization
 - a. The City will pay all costs for the mobilization and demobilization of all of the Contractor's plant and equipment at the contract lump sum price for this item.
 - b. 60 percent of the lump sum price upon will be paid upon completion of the contractor's mobilization at the work site.
 - c. The remaining 40 percent upon completion of demobilization.
 - d. The City or its Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the City or its Engineer believes that the percentages do not bear a reasonable relation to the cost of the work in this contract.
 - e. Failure to justify such price to the satisfaction of the City or its Engineer will result in payment, as determined by the City or Project Engineer, of:
 - 1) Actual mobilization costs at completion of mobilization.
 - 2) Actual demobilization costs at completion of demobilization; and
 - 3) The remainder of this item in the final payment under this contract.

B. MEASUREMENT

1. Unit of Measure: LUMP SUM (LS)

2. Mobilization/ Demobilization will be measured as the lump sum to include compensation for project preparations, procurement and assembly of all equipment, controls, materials, supplies, permits, labor and bonds required for the prosecution of the work not otherwise included in other pay items and upon completion of the work as specified and directed, the clean-up of the work areas, removal of equipment, materials and supplies from the work area. This bid item shall be paid upon complete demobilization from the site, which shall include all cleanup and restoration as set forth herein and in accordance with the Contract Documents.

2.2 **BID ITEM 2 – COORDINATION AND RECEIPT OF CONCRETE FLOAT DELIVERY WITH BELLINGHAM MARINE**

A. **WORK COVERED BY CONTRACT PRICE**

1. All work associated with this bid item includes any labor, materials, or equipment shall be included in the contract lump-sum prices for the coordination of the concrete float delivery with Bellingham Marine, as listed in Section I BID FORM as part of the Bid Schedule.
2. Payment.
 - a. The City will pay all costs for this bid item at the contract lump sum price for this item.
 - b. The City or its Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the City or its Engineer believes that the percentages do not bear a reasonable relation to the cost of the work in this contract.
 - c. Failure to justify such price to the satisfaction of the City or its Engineer will result in payment, as determined by the City or Project Engineer, of:
 - 1) Actual mobilization costs at completion of mobilization.
 - 2) Actual demobilization costs at completion of demobilization; and
 - 3) The remainder of this item in the final payment under this contract.

B. **MEASUREMENT**

1. Unit of Measure: LUMP SUM (LS)

2.3 **BID ITEM 3 – DEMOLITION, REMOVAL & DISPOSAL OF EXISTING TIMBER FLOATING DOCK SYSTEM, TIMBER & STEEL PILES, METAL GANGWAYS, GANGWAY STRUCTURES, AND FLAGPOLE FOUNDATION**

A. **WORK COVERED BY CONTRACT PRICE**

1. This item consists of all work associated with site preparation, selective demolition, transport, salvage, removal and disposal of all existing timber floating dock system, timber & steel piles, metals gangways, gangway structures, flagpole foundation, accessories, and any rubbish and debris resulting from the demolition of the existing site features, as shown and specified in the Contract Drawings.
2. This bid item shall include, but not be limited to, the complete removal of all existing creosote treated timber and steel piles, timber floating system, metals gangways, gangway structures and any other associated miscellaneous demolition. Bid item shall include removal, protection, labor, transportation and

equipment to demolish, remove and dispose of all piles to the extent shown on the plans. Bid item shall also include all work such as disconnecting, trimming, disposal of excess, bracing, staging, manpower, fueling, maintenance, operation, field engineering, environmental protection as required for the complete removal and proper off-site disposal of all waste associated with demolition work.

3. Full compensation for all documents and submissions; for complying with the requirements of the regulatory permits and the requirements of any other agencies with jurisdiction over these matters shall be included in the Contract unit price for this bid item and no additional payment will be made.

B. MEASUREMENT

1. Unit of Measure: LUMP SUM (LS)
2. Demolition, Removal, and Disposal will be measured as Lump Sum to include full compensation for the work specified.
3. Payment shall be made for all supervision, materials, labor, tools, and equipment and all work, expenses and taxes incidental and necessary to complete the work in accordance with the Contract Drawings and specifications.

2.4 BID ITEM 4 – EXCAVATION, REMOVAL, AND DISPOSAL OF EAST GANGWAY FOUNDATION

A. WORK COVERED BY CONTRACT PRICE

1. This item consists of all work associated with site preparation, selective demolition, transport, salvage, removal and disposal of the existing concrete east gangway foundation and any rubbish and debris resulting from the demolition of the existing site feature, as shown and specified in the Contract Drawings.
2. Bid item shall include removal, protection, labor, transportation and equipment to demolish, remove and dispose of the concrete foundation to the extent shown on the plans. Bid item shall also include all work such as disconnecting, trimming, disposal of excess, bracing, staging, manpower, fueling, maintenance, operation, field engineering, environmental protection as required for the complete removal and proper off-site disposal of all waste associated with demolition work.
3. Full compensation for all documents and submissions; for complying with the requirements of the regulatory permits and the requirements of any other agencies with jurisdiction over these matters shall be included in the Contract unit price for this bid item and no additional payment will be made.

B. MEASUREMENT

1. Unit of Measure: LUMP SUM (LS)
2. Demolition, Removal, and Disposal will be measured as Lump Sum to include full compensation for the work specified.
3. Payment shall be made for all supervision, materials, labor, tools, and equipment and all work, expenses and taxes incidental and necessary to complete the work in accordance with the Contract Drawings and specifications.

2.5 **BID ITEM 5 – PILE PROBING**

A. **WORK COVERED BY CONTRACT PRICE**

1. This item consists of all work including, but not limited to, coordination, locating, and installation of probing piles, shop drawings and submittals, and all related incidental items as required to confirm pile locations within the limits shown on the Contract Drawings and in accordance with specifications.
2. The contractor shall conduct a field probing program, prior to pile installation, at the approximate location of the proposed float piles. This probing program shall determine if the proposed pile location shall require relocation or if rock socketing shall be required in order to reach the tip elevation specified within these Contract Documents.

B. **MEASUREMENT AND PAYMENT**

1. Unit of Measure – LUMP SUM (LS)
2. This item will be measured as Lump Sum as accepted by the Engineer.
3. Payment shall be made for costs including, but not limited to, furnishing all labor, equipment, tools and all related incidentals associated with this Bid Item.

2.6 **BID ITEM 6 – INSTALL 3,800 SF OF CONCRETE FLOATING DOCKS AND POWER AND WATER PEDESTALS**

A. **WORK COVERED BY CONTRACT PRICE**

1. This item consists of all work including, but not limited to, coordination and on-site receipt of delivery by a third party, off-loading, temporary storage (as required), handling, locating, and installation of new concrete floating dock system, shop drawings and submittals, and all related incidental items as required for a new concrete floating dock system at the locations and to the limits shown on the Contract Drawings and in accordance with specifications. All work shall be performed as shown on the typical details. Installation drawings to be provided prior to the start of work.

B. **MEASUREMENT AND PAYMENT**

4. Unit of Measure – LUMP SUM (LS)
5. This item will be measured as Lump Sum of concrete floating dock system complete in place as accepted by the Engineer.
6. Payment shall be made for costs including, but not limited to, furnishing all labor, equipment, tools and all related incidentals associated with this Bid Item.

2.7 **BID ITEM 7 – INSTALL 16-IN DIA. X 50-FT LONG X 3/8-IN W.T. STEEL PIPE PILES**

A. **WORK COVERED BY CONTRACT PRICE**

1. This item consists of all work including, but not limited to, furnishing all labor, equipment, tools and incidentals for the complete in place installation of 16-inch diameter, 3/8-inch thick coated steel pipe piles in accordance with Contract Drawings and specifications as required to support a new concrete floating dock system. This item shall include all work necessary for the installation of coated steel pipe piles at the locations and to the depths/elevations shown on the Contract

Drawings, including but not limited to, on-site receipt of delivery, off-loading and temporary storage (as required), setting and removal of falsework, furnishing and installation of steel pile closure plates, installation of PVC pile caps, drilling, hole clearing, coating touch up, inspection, testing, as-built survey(s) and any/all other item as necessary for the installation of all steel pipe piles. Driving through any obstructions, if encountered, and testing shall be considered incidental to the steel pile installation.

2. Full compensation for all documents and submissions; for complying with the requirements of the regulatory permits and the requirements of any other agencies with jurisdiction over these matters shall be included in the Contract unit price for this bid item and no additional payment will be made.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure – EACH (EA)
 - a. The Contractor will be paid the contract unit price per Each installed, 16-inch diameter, 3/8-inch thick coated steel pile piles which unit price shall include the full compensation for coordination and on-site receipt of delivery, storage (as required), furnishing/installing PVC pile caps and closure plates, field coating touch up, handling, preparation, and installation, including all material, equipment, labor, supervision, survey, tools, and other incidental or appurtenant work required to complete the work under this item, as shown on the Contract Drawings, specified herein, and as directed by the Engineer.
 - b. The unit contract price for the placement of piles complete in place shall include all coordination, receipt of delivery, handling, temporary storage, handling, preparation and installation of pile end closure plates and PVC pile caps, cleaning, field coating touch up, obstruction procedures, and cutoff operations, including all tools, labor, and equipment, and all incidental work, as indicated by the Contract Drawings and as specified.
 - c. No additional measurement for payment shall be made for cutoff lengths, or for overdriving that is not approved by the Engineer.
2. Payment for this item will be measured as Each after deemed complete in place as accepted by the Engineer.

2.8 BID ITEM 8 – FURNISH & INSTALL CONCRETE GANGWAY & FENCE FOUNDATIONS

A. WORK COVERED BY CONTRACT PRICE

1. The contract price per cubic yard for this item shall include all costs to furnish and install new concrete gangway and fence foundations, as specified in the Contract Documents. This item shall include all work associated with the location, installation, testing, surveying, shop drawings and submittals, and all related incidental items as required as part of the Contract Drawings and these specifications.
2. Payments to the Contractor will be made for the actual quantities of the Contract items performed and accepted in accordance with the Contract Documents. Upon completion of the construction, if these actual quantities show either an increase or decrease from the quantities as provided in Section I BID Form, Bid Schedule,

the Contract unit prices will still prevail, except as otherwise provided. The payment of any partial estimate or of any retained percentage except by and under the approved final invoice, in no way shall affect the obligation of the Contractor to repair or renew any defective parts of the construction or to be responsible for all damage due to such defects.

3. Full compensation for all documents and submissions; for complying with the requirements of the regulatory permits and the requirements of any other agencies with jurisdiction over these matters shall be included in the Contract unit price for this bid item and no additional payment will be made.

B. MEASUREMENT

1. Unit of Measure: IN-PLACE CUBIC YARD (CY)
2. The total amount of material utilized and paid for under the contract for this Item, will be measured by the cubic yard in place by computing the volume utilizing concrete batch tickets for each truck delivered to the site.
3. Partial payments will be based on approximate quantities determined and approved by the City or its Engineer.

2.9 **BID ITEM 9 - FURNISH AND INSTALL EAST SLOPE ARMORING**

A. WORK COVERED BY CONTRACT PRICE

1. This item consists of all work including, but not limited to, all labor, materials, equipment, tools, or additional costs to furnish and install the east slope armoring, as specified in the Contract Documents. This item shall include all work associated with the procurement of materials, location, excavation, installation, testing, surveying, shop drawings and submittals, and all related incidental items as required as part of the Contract Drawings and these specifications.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure – LUMP SUM (LS)
2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
3. Payment shall be made for costs including, but not limited to, furnishing all labor, equipment, tools and all related incidentals associated with this Bid Item.

2.10 **BID ITEM 10 – INSTALL METAL GANGWAY**

A. WORK COVERED BY CONTRACT PRICE

1. This item consists of all work including, but not limited to, coordination and on-site receipt of delivery by a third party, off-loading, temporary storage (as required), handling, locating, and installation of new concrete floating dock system, shop drawings and submittals, and all related incidental items as required for a new concrete floating dock system at the locations and to the limits shown on the Contract Drawings and in accordance with specifications. All work shall be performed as shown on the typical details. Installation drawings to be provided prior to the start of work.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure – EACH (EA)
 - a. The Contractor will be paid the contract unit price per Each installed, which unit price shall include the full compensation for all material, equipment, labor, supervision, survey, tools, and other incidental or appurtenant work required to complete the work under this item, as shown on the Contract Drawings, specified herein, and as directed by the Engineer.
2. Payment for this item will be measured as Each after deemed complete in place as accepted by the Engineer.

2.11 **BID ITEM 11 – FURNISH & INSTALL 8-FT TALL IRON GANGWAY FENCING & SIGN**

C. WORK COVERED BY CONTRACT PRICE

1. This item consists of all work including, but not limited to, coordination and on-site receipt of delivery by a third party, off-loading, temporary storage (as required), handling, locating, and installation of new 8-ft tall iron fencing and sign, shop drawings and submittals, and all related incidental items as required for the new fencing and sign at the locations and to the limits shown on the Contract Drawings and in accordance with specifications.

D. MEASUREMENT AND PAYMENT

4. Unit of Measure – LUMP SUM (LS)
5. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
6. Payment shall be made for costs including, but not limited to, furnishing all labor, equipment, tools and all related incidentals associated with this Bid Item.

2.12 **BID ITEM 12 – BANK RESTORATION, SEEDING, AND FURNISH & FLAGPOLE ASPHALT PATCH**

A. WORK COVERED BY CONTRACT PRICE

1. This item consists of all work including, but not limited to, complete restoration of all areas disturbed by the Contractor's operations to their pre-construction conditions at the locations and to the limits shown on the Contract Drawings and in accordance with specifications.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure – LUMP SUM (LS)
2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
3. Payment shall be made for costs including, but not limited to, furnishing all labor, equipment, tools and all related incidentals associated with this Bid Item.

- 2.13 **BID ITEM 12 – REMOVE, STORE, AND RE-INSTALL PSCC GANGWAY**
- A. **WORK COVERED BY CONTRACT PRICE**
1. This item consists of all work including, but not limited to, temporary storage (as required), handling, locating, and reinstallation of the existing PSCC aluminum access gangway and all related incidental items as required at the locations and to the limits shown on the Contract Drawings and in accordance with specifications.
- B. **MEASUREMENT AND PAYMENT**
1. Unit of Measure – LUMP SUM (LS)
2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
3. Payment shall be made for costs including, but not limited to, furnishing all labor, equipment, tools and all related incidentals associated with this Bid Item.
- 2.14 **OPTIONAL BID ITEM 1 – 10’ ROCK SOCKETING OF STEEL PILES**
- A. **WORK COVERED BY CONTRACT PRICE**
1. All costs including but not limited to furnishing all labor, materials, equipment, and incidentals for the complete in place installation of 16-inch diameter, 5/8-inch thick coated steel pile piles socketed into bedrock in accordance with Contract Drawings and specifications as required to support a new gangway lifting system and floating dock system and MAAB/ADA aluminum gangway which both shall be provided to the Contractor by the City. This item shall include all work necessary for the installation of rock-socketed steel pipe piles at the locations and to the depths/elevations shown on the Contract Drawings, including but not limited to, the installation and complete placement of steel pipe piles, temporary casing, drilling, hole clearing, inspection, testing, cast in place grout, pile cap plates, as-built survey(s) and any/all other item as necessary for the installation of all steel pipe piles. Drilling through any obstructions, if encountered, and testing shall be considered incidental to the socketed pile installation.
- C. **MEASUREMENT AND PAYMENT**
1. Unit of Measure – EACH (EA)
- a. The Contractor will be paid the contract unit price per Each installed, which unit price shall include the full compensation for all material, equipment, labor, supervision, survey, tools, and other incidental or appurtenant work required to complete the work under this item, as shown on the Contract Drawings, specified herein, and as directed by the Engineer.
- 2.15 **OPTIONAL BID ITEM 2 – ADDITIONAL 16-IN DIA X 3/8-IN W.T. STEEL PIPE PILE**
- A. **WORK COVERED BY CONTRACT PRICE**
1. This item consists of all work including, but not limited to, furnishing all labor, equipment, tools and incidentals for any additional pipe piles required in order to complete the pile installation. The contractor shall have a minimum of one (1)

additional 16-in Dia x 3/8-in W.T. pile on site to accommodate any potential splicing required as part of this work.

2. This option bid item is intended to be utilized as a supplementary bid item to complete in place installation of 16-inch diameter, 3/8-inch thick coated steel pipe piles in accordance with Contract Drawings and specifications as required to support a new concrete floating dock system. This item shall include all work necessary for the installation of coated steel pipe piles at the locations and to the depths/elevations shown on the Contract Drawings, and any/all other item as necessary for the installation of all steel pipe piles. Driving through any obstructions, if encountered, and testing shall be considered incidental to the steel pile installation.
3. Full compensation for all documents and submissions; for complying with the requirements of the regulatory permits and the requirements of any other agencies with jurisdiction over these matters shall be included in the Contract unit price for this bid item and no additional payment will be made.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure – Linear Foot (LF)
 - a. The Contractor will be paid the contract unit price per Linear foot installed, 16-inch diameter, 3/8-inch thick coated steel pile piles which unit price shall include the full compensation for work associated with the splicing of additional pile lengths for rock socketing or unforeseen driving conditions, as shown on the Contract Drawings, specified herein, and as directed by the Engineer.
 - b. The unit contract price for the placement of piles complete in place shall include all coordination, receipt of delivery, handling, temporary storage, handling, preparation and installation of pile end closure plates and PVC pile caps, cleaning, field coating touch up, obstruction procedures, and cutoff operations, including all tools, labor, and equipment, and all incidental work, as indicated by the Contract Drawings and as specified.
 - c. No additional measurement for payment shall be made for cutoff lengths, or for overdriving that is not approved by the Engineer.

2.16 OPTIONAL BID ITEM 3 – FURNISH & INSTALL GANGWAY GATES

A. WORK COVERED BY CONTRACT PRICE

1. This item consists of all work including, but not limited to, coordination and on-site receipt of delivery by a third party, off-loading, temporary storage (as required), handling, locating, and installation of new gangway gates, shop drawings and submittals, and all related incidental items as required for the new fencing at the locations and to the limits shown on the Contract Drawings and in accordance with specifications.

D. MEASUREMENT AND PAYMENT

1. Unit of Measure – EACH (EA)
 - a. The Contractor will be paid the contract unit price per Each installed, which unit price shall include the full compensation for all material, equipment,

labor, supervision, survey, tools, and other incidental or appurtenant work required to complete the work under this item, as shown on the Contract Drawings, specified herein, and as directed by the Engineer.

2. Payment for this item will be measured as Each after deemed complete in place as accepted by the Engineer.

2.17 **OPTIONAL BID ITEM 4 – 2024 INSTALLATION OF CONCRETE FLOATING DOCKS, WATER/POWER PEDESTALS, METAL GANGWAYS, AND RE-INSTALL PSCC GATE/GANGWAY (CONDITIONAL BASED ON PERMIT REQUIREMENTS AND DELIVERY SCHEDULE).**

A. **WORK COVERED BY CONTRACT PRICE**

1. Work associated with this optional bid item shall include all required materials, equipment, site preparation/restoration and temporary facilities furnished for the re-mobilization of equipment to the site in order to install the concrete floating docks, water/power pedestals, metal gangways, and re-install PSCC gate/gangway within the time of year window (June 15, 2024 – November 30, 2024). This item is intended to supplement Bid Items 6, 9, and 12 for any additional incurred costs to the Contractor. This item shall be included in the contract lump-sum prices for Items of re-mobilization as listed in Section I BID FORM as part of the Revised Bid Schedule.
2. This item is only intended for use should the permit documents not allow for installation of the floating docks outside of the work window. No payment shall be made under this item should the contractor be able to complete the work specified within the Contract Documents under one (1) mobilization / demobilization.
3. It is the intent of the City to perform all work in 2023. This optional item shall only be utilized in the event that permits or delivery schedule preclude the Contractor from doing so.

B. **MEASUREMENT AND PAYMENT**

1. Unit of Measure: LUMP SUM (LS)
2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
3. Payment
 - a. The City will pay all additional costs incurred for the remobilization, demobilization and installation as a as a supplement Bid Items 6, 9, and 12 as required to perform the work within the 2024 time of year window.
 - b. The City or its Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the City or its Engineer believes that the percentages do not bear a reasonable relation to the cost of the work in this contract.
 - c. Failure to justify such price to the satisfaction of the City or its Engineer will result in payment, as determined by the City or Project Engineer, of:
 - 1) Actual re-mobilization costs at completion of mobilization.
 - 2) Actual demobilization costs at completion of demobilization; and
 - 3) The remainder of this item in the final payment under this contract.

**2.16 OPTIONAL BID ITEM 5 – PROJECT START DELAY TO JUNE 2024
(CONDITIONAL BASED ON PERMIT REQUIREMENTS AND DELIVERY
SCHEDULE).**

- A. WORK COVERED BY CONTRACT PRICE
1. Work associated with this optional bid item shall include all costs associated with delaying the entire project start of work to within the 2024 time of year window (June 15, 2024 – November 30, 2024).
 2. This item is only intended for use should the City decide to delay the work to June of 2024. No payment shall be made under this item should the contractor be able to complete the work within the timeframe specified within the Contract Documents.
 3. It is the intent of the City to perform all work in 2023. This optional item shall only be utilized in the event that permits or delivery schedule preclude the Contractor from doing so.
- B. MEASUREMENT AND PAYMENT
1. Unit of Measure: LUMP SUM (LS)
 2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
 3. Payment
 - a. The City will pay all additional costs incurred for the delay of work to the 2024 time of year window.
 - b. The City or its Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the City or its Engineer believes that the percentages do not bear a reasonable relation to the cost of the work in this contract.

END OF SECTION

BID SCHEDULE

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Price
1	Mobilization/Demobilization	LS	1		
2	Coordination and Receipt of Concrete Float Delivery with Bellingham Marine	LS	1		
3	Demolition, Removal & Disposal of Existing Timber Floating Dock System, Timber & Steel Piles, Metal Gangways, Gangway Structures, and Flagpole Foundation	LS	1		
4	Excavation, Removal, & Disposal of East Gangway Foundation	LS	1		
5	Pile Probing	LS	1		
6	Install 3,800 sf of Concrete Floating Docks and Water/Power Pedestals	LS	1		
7	Furnish & Install 16-in Dia. x 50-ft long x 3/8-in W.T. Steel Pipe Piles	EA	14		
8	Furnish & Install Concrete Gangway & Fence Foundations	CY	16		
9	Furnish and Install East Slope Armoring	LS	1		
10	Install Metal Gangways	EA	2		
11	Furnish & Install 8-ft Tall Iron Gangway Fencing & Sign	LF	100		
12	Bank Restoration and Seeding & Flagpole Asphalt Patch	LS	1		
13	Remove, Store, and Re-Install PSCC Gangway	LS	1		
Total Base Bid				\$	\$

OPTIONAL BID ITEMS

Item No.	Description	Unit	Unit Price
1	10' Rock Socketing of Steel Piles	EA	
2	Furnish & Install Additional 16-in Dia x 3/8-in W.T. Steel Pipe Pile	LF	
3	Furnish & Install Gangway Gates	EA	
4	2024 Installation of Concrete Floating Docks, Water/Power Pedestals, Metal Gangways, And Re-Install PSCC Gate/Gangway (Conditional Based on Permit Requirements And Delivery Schedule).	LS	
5	Project Start Delay to June 2024	LS	

***Note:** In case of error in extension of price into the total price column, the unit price will govern.

Total Amount of Bid (written in words) is: _____
_____ Dollars and
_____ Cents.
In the event of discrepancy between words and figures, the words shall prevail.
\$ _____
_____ Figures

The award of the contract shall be awarded to the lowest qualified price of the total of Base Bid items 1. Options Bid items should NOT be included in the Base Bid Price.

Address of Bidder

Signature of Bidder

City

Name of Bidder (Print)

Telephone Number of Bidder

Fax Number of Bidder

Contractor's License Number

License's Expiration Date

Addendum Acknowledgement

Addendum No. 1 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 2 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 3 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 4 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 5 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 6 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 7 Signature Acknowledging Receipt: _____ Date: _____