

Teresa Barrett  
Mayor

Brian Barnacle  
D'Lynda Fischer  
Mike Healy  
Dave King  
Kevin McDonnell  
Dennis Pocekay  
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

Parks & Facility  
Maintenance  
840 Hopper St. Ext.  
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](mailto:publicworks@cityofpetaluma.org)

# CITY OF PETALUMA

POST OFFICE BOX 61  
PETALUMA, CA 94953-0061  
ADDENDUM NO. 1

## PETALUMA TURNING BASIN DREDGING City Project Number C14501607

August 19, 2022

This Addendum No. 1 modifies the Bidding Documents for the Petaluma Turning Basin Dredging City Project Number C14501607. 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.

### NOTICE INVITING BID CHANGE

Refer to page 1, item 2 of the Notice of Inviting Bids. The Bids will be ~~publicly~~ opened and read at ~~2:00 PM (enter time) on August 25<sup>th</sup>, 2022~~ **read at 2:00 PM on Thursday, August 25<sup>th</sup>, 2022**, 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.

The following paragraphs of the "Notice Inviting Bids" will be modified as described.

**1. RECEIPT OF BIDS:** Bids for this project will be submitted by email before 2:00 PM on **Thursday, August 25<sup>th</sup>, 2022**. The emailed bid will include all of the completed documents found in the BID FORMS section of the Contract Documents. The bids will be emailed to: [CITYCLERK@cityofpetaluma.org](mailto:CITYCLERK@cityofpetaluma.org). **Note:** Please limit emailed bid file size to 15MB. If needed the respondent may submit multiple emails so long as they are properly labeled and submitted **before** the above-stated time. The email subject line will be "Petaluma Turning Basin Dredging City Project Number C14501607". The response email from the City Clerk will indicate the time stamp of the bid receipt.

**Original copies of the Sealed Bids** will be sent by standard United States Postal Service (USPS) mail services and received by the mail clerk at 11 English Street, Petaluma CA 94952. The Sealed Bids will be postmarked at USPS not later than the date of **August 25<sup>th</sup>, 2022**. Sealed Bids postmarked after **August 25<sup>th</sup>, 2022**, may not be considered. The Sealed Bids sent via USPS will include all of the original signed and sealed documents included in the Bid Form section of the Contract Documents. This packet will be clearly marked on the outside of the package "Petaluma Turning Basin Dredging City Project Number C14501607".

**2. OPENING OF BIDS:** The emailed bids will be opened by the Project Manager and the City Clerk. The bids will be documented on the Bid Result template with the name of the bidding contractor and ranked by the Base Bid dollar amount. The Bid results will be posted on the City's webpage at <https://cityofpetaluma.org/bid-opportunities-2/>

**4. DESCRIPTION OF WORK:** The WORK includes the removal, demolition, and disposal of the City’s Turning Basin Floats, as designated within the Issued for Bid Plan Set. The removal, protection, and reinstallation of the Petaluma Small Craft Center floats and City’s Turning Basin Floats designated for reinstallation. The removal and transportation of the East (Weller Street) gangway to a location designated by the City of Petaluma. The removal and reinstallation of the West gangway. The installation of any and all temporary barriers to close off the gangway landings to public access. The dredging of the Petaluma Turning Basin to a design depth of minus 8.0 feet (-8.0 MLLW) as indicated on the Plans. The Turning Basin shall have an overdepth allowance of 1-foot. The maximum over dredge depth shall be minus 9 feet (-9.0 MLLW). Placement of the material shall be at SF-10. ~~or at Shollenberger Dredged Material Placement Site.~~

**BID SCHEDULE CHANGE**

SECTION 09 BIDS – BID SCHEDULE – Replace in its entirety with the attached SECTION 09 BIDS – REVISED BID SCHEDULE (Revised 8/18/2022).

The Estimated Quantity for Bid Item 6 has been changed to 7,809 cubic yards. Please see the Revised Bid Schedule.

The following table has been added to the Bid Schedule.

**BID ALTERNATIVES**

<b>Item No.</b>	<b>Description</b>	<b>Estimated Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Price</b>
8	Petaluma Turning Basin Timber Pile Removal & Proper Disposal	EA	EA/Pile		
9	Petaluma Turning Basin Timber Pile Proper Disposal	EA	EA/Pile		

**SPECIAL PROVISIONS CHANGE**

The following paragraphs of Section III, “Special Provisions” will be modified as described.

**1. Part 1: General:**

**3.1 Description of Work:**

The dredging of the Petaluma Turning Basin to a design depth of minus 8.0 feet (-8.0 MLLW) as indicated on the Plans. The Turning Basin shall have an overdepth allowance of 1-foot. The maximum over dredge depth shall be minus 9 feet (-9.0 MLLW). Placement of the material shall be at SF-10. ~~or at Shollenberger Dredged Material Placement Site.~~

**PROJECT PLANS CHANGE**

Petaluma Turning Basin Dredging Project Plans, Prepared by Foth & Van Dyke and Associates, Inc.

1. Sheet G-102 – Construction Notes – REMOVE the following under Note 2:  
“or at Shollenberger Park.”
2. Sheet G-103 Dredge Volume Table – DELETE and REPLACE with the updated Dredge Volume Table
3. Sheet C-102 and C-103 – DELETE and REPLACE the PSCC Pile Note with:  
“PSCC FIBERGLASS PILES; TO REMAIN (TYP. OF 8)”
4. Sheet C-103 – ADD the following Notes and MODIFY Dredge Template:

- “TOE OF DREDGE TEMPLATE MINIMUM 15’ FROM EDGE OF PSCC PILES (TYP.)” and  
“TOE OF DREDGE TEMPLATE MINIMUM OF 15’ FROM EDGE OF CITY PILE #13”
5. Sheet D-101 – DELETE and REPLACE Sections 0+50 to 2+50 and DELETE Section 3+00.

## **QUESTIONS AND ANSWERS**

**Q: *What is the engineer’s Base Bid estimate for the project?***

**A:** The engineer’s Base Bid estimate for the project is \$620,169.00.

**Q: *What are the clearance dimensions of the D-Street Bridge?***

**A:** The D-Street Bridge has a clearance width of 60’ when open. The average height from the water to the bottom of the bridge at low tide is approximately 12’ and the average height from the water to the bottom of the bridge at high tide is approximately 5’.

**Q: *What method of dredging will be allowed?***

**A:** All dredging shall be performed by mechanical means.

**Q: *Where will the existing City Floats be cut?***

**A:** The Contractor shall coordinate the demolition limits of the existing City Floats with the City or the City’s Engineer in the field.

**Q: *What side of piles is the toe of the dredge template on?***

**A:** The toe of dredge slope is located on the seaward side of all piles. Please refer to sheet C-103 for limits of the toe of slope. Additionally, the toe of slope shall be located a minimum of 15’ from the edge of the fiberglass PSCC piles and City float pile #13.

**Q: *Will the galvanized east gangway closure piece be provided by the City?***

**A:** No, the contractor shall provide all galvanized east gangway closure barricades required to secure the east gangway over the next year.

**Q: *Are A-Frame signs acceptable as gangway barriers?***

**A:** A-Frame signs are acceptable as gangway barriers for the west (temporary during dredging) gangway closure.

**Q: *Please clarify the bridge opening “peak times”***

**A:** Friday, Saturday, and Sunday’s are peak times.

**Q: *Is the Contractor permitted to move barges outside of bridge opening hours?***

**A:** Yes, with approval and coordination from/with the City.

**Q: *Please clarify the requirement to submit “stand by rate” pricing. What does “stand by” refer to?***

**A:** Please see Section 02881 – Dredging – 4.01.I and 4.02.J.

**Q: *Please clarify the requirement to provide a Dredge Operations Plan by August 29.***

**Contractor will not be able to provide a DOP without completing a pre-dredge survey.**

**A:** Revise to “By September 20, 2022, the Contractor (the apparent low bidder) shall submit a project schedule with sequence of work and proposed Dredging Operations Plan (DOP).”

**Q: *Is electronic draft monitoring necessary for the dump scows in addition to electronic positioning?***

**A:** Electronic positioning systems shall be used for vertical and horizontal control prudent to the USACE Permit Standard DMMO Conditions of Permit Number 2011-00153 dated April 2, 2021.

**Summary of Changes:** Bids will be emailed to the City Clerk, and original copies of the sealed bids will be mailed in. The “Notice Inviting Bids”, “Bid Schedule”, “Special Provisions”, and “Project Plans” documents have been updated as stated above. Some project questions have been answered above. All other items of the bid documents shall remain unchanged.

City of Petaluma,



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Erica Jacobs, MPA  
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. 1**

**PETALUMA TURNING BASIN DREDGING  
City Project Number C14501607**

**August 19, 2022**

**ACKNOWLEDGEMENT**

Receipt of Addendum No. 1 is hereby acknowledged by \_\_\_\_\_  
(Contractor's Name)  
on the \_\_\_\_\_ day of \_\_\_\_\_, 2022.

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company

**BID SCHEDULE – Revised 8/18/2022**

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Mobilization/Demobilization	1	LS		
2	Demolition and Disposal of Existing Floating Wood Docks, Cleats, Dock Utilities (Water/Power), and Power Pedestals	1	LS		
3	Removal and Reinstallation of West Gangway	1	LS		
4	Removal and Relocation of East Gangway	1	LS		
5	Removal and Reinstallation of PSCC Floats	1	LS		
6	Petaluma Turning Basin and River Dredging and Disposal at SF-10	7,809	CY		
<b>Total Base Bid</b>				<b>\$</b>	<b>\$</b>

**OPTIONAL BID ITEMS**

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
7	Stand-By-Rate	100	HR		

**BID ALTERNATIVES**

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
8	Petaluma Turning Basin Timber Pile Removal & Proper Disposal	EA	EA/Pile		
9	Petaluma Turning Basin Timber Pile Proper Disposal	EA	EA/Pile		

**\*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 price of the total of Base Bid items 1 through 6. Optional and Alternative 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: \_\_\_\_\_

Addendum No. 8    Signature Acknowledging Receipt: \_\_\_\_\_    Date: \_\_\_\_\_

# City of Petaluma, California

## PETALUMA TURNING BASIN DREDGING PROJECT

150 WELLER STREET, PETALUMA, CA 94952

REVISED - ISSUED FOR BID PLANS



**LOCATION MAP**  
SCALE: N.T.S.

**SHEET INDEX**

- G-101 TITLE AND SHEET INDEX
- G-102 GENERAL NOTES & SURVEY CONTROL
- G-103 ABBREVIATIONS, SYMBOLS & REVISIONS
- C-101 EXISTING CONDITIONS SITE PLAN
- C-102 DEMOLITION PLAN
- C-103 PROPOSED DREDGE PLAN
- D-101 TURNING BASIN DREDGE SECTIONS
- S-101 GANGWAY CLOSURE 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  
Teresa Barrett

COUNCIL MEMBERS  
D'Lynda Fischer  
Mike Healy  
Dave King  
Brian Barnacle  
Dennis Pocekay  
Kevin McDonnell

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: MAY 2021/REVISED AUGUST 18, 2022  
 DESIGNED BY: JD  
 DRAWN BY: KEF/CFF  
 CHECKED BY: WR

PROJECT NO.  
0020P015.00

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



PETALUMA TURNING BASIN  
 DREDGING PROJECT  
 TITLE



SHEET  
**G-101**  
 1 OF 8



**GENERAL NOTES**

- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES BY POT-HOLING OR OTHER DIRECT INSPECTION METHOD PRIOR TO COMMENCING WORK
- UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE PLANS BUT AND MUST BE LOCATED BY THE CONTRACTOR PRIOR TO THE START OF PROPOSED WORK.
- THE CONTRACTOR SHALL NOTE ALL APPROVED FIELD CHANGES AND OTHER OCCURRENCES AND SUBMIT A FULL SIZE COMPLETE CONSTRUCTION "RECORD DRAWING" SET NOTED AND DATED ON THE DRAWINGS TO THE PROJECT ENGINEER PRIOR TO ACCEPTANCE OF THE WORK.
- 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.
- THE CONTRACTOR MAY NOT COMMENCE DREDGING UNTIL ALL REQUIRED REGULATORY APPROVALS ARE RECEIVED AND THE EXISTING DOCKS AND GANGWAYS HAVE BEEN REMOVED AND PROTECTED AND TEMPORARY ACCESS PREVENTIONS HAVE BEEN INSTALLED.
- COMMENCE DREDGING OPERATIONS AFTER ALL NECESSARY PERMITS AND OTHER AUTHORIZATIONS HAVE BEEN OBTAINED AND AFTER RECEIPT OF WRITTEN NOTIFICATION BY THE CITY TO PROCEED WITH THE WORK.
- DREDGING OPERATIONS SHALL CEASE IMMEDIATELY WHENEVER VIOLATION OF REQUIREMENTS ARE DETECTED. OPERATION SHALL NOT RESUME UNTIL METHODS OF COMPLIANCE ARE APPROVED.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALTER (USA) AND VARYIFY UTILITY MARKING PRIOR TO ANY EXCAVATION. 1-800-227-2600.
- ALL ELEVATIONS SHOWN OR REFERED TO ON THESE MAINTENANCE AND IMPROVEMENT DREDGING DRAWINGS ARE BASED ON MEAN LOW WATER (MLLW) DATUM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND MAINTAIN ALL DOCKS AND FLOATS DURING CONSTRUCTION.
- PROTECT EXISTING PILES AND DOCKS BOTH CITY AND PETALUMA SMALL CRAFT CENTER (PSCC).
- THE CONTRACTOR SHALL COORDINATE WITH THE PSCC FOR THE REMOVAL AND PROTECTION OF THEIR DOCK. THE CONTACT FOR THE PSCC IS GREG SABOURIN - (707) 293-3685.
- 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. INTERPOLATED INFORMATION FROM BETWEEN SOUNDINGS RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. NO SURVEYS WERE CONDUCTED TO LOCATE PROPERTY LINES, CHANNEL LIMITS, EASEMENTS, UTILITIES, GEOTECHNICAL FEATURES, SHORELINES, STRUCTURES, HABITATS OR ANY OTHER PHYSICAL FEATURES RELATING TO THE PROJECT SITE, NOR DOES FOTH WARRANT THE EXISTENCE OR LOCATION OF SAID PHYSICAL FEATURES.
- POSSESSION AND USE OF THE MATERIAL CONTAINED ON THESE DRAWING 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.
- CONTRACTOR'S REGULAR WORKING HOURS FOR DREDGING ARE 7 AM TO 7 PM, MONDAY THROUGH SUNDAY, INCLUDING HOLIDAYS, OR AS DIRECTED BY THE CITY ENGINEER. CONTRACTOR'S WORKING (CALENDAR) DAYS FOR DREDGING AND DISPOSAL OF DREDGED MATERIAL SHALL OCCUR BETWEEN JUNE 1, 2022, AND NOVEMBER 30, 2022 UNLESS REGULATORY TIME EXTENSIONS ARE OBTAINED BY THE CITY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK WITHIN THE GUIDELINES AND TIME CONSTRAINTS SET BY THE APPROPRIATE REGULATORY AGENCIES. CONTRACTOR SHALL COMPLETE WORK WITHIN THE TIME IDENTIFIED IN THE CONTRACT DOCUMENTS.

**SURVEY NOTES**

- THE BATHYMETRIC DATA AND DREDGE FOOTPRINT SHOWN ON THIS PLAN HAS BEEN UPDATED TO REFLECT DATA GATHERED JUNE 13, 2022 PERFORMED BY BAY MARINE SERVICES, LLC (NOVATO, CA).
- DATA IS REFERENCED TO PRIMARY BM "USACE PK NAIL" REPORTED AT +10.0 FT. MLLW, AND LOCATED THE PETALUMA MARINA IN PETALUMA, CA.
- HORIZONTAL POSITIONS ARE REFERENCED TO THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE II (NAD 83).
- RTK-GPS POSITION CORRECTIONS WERE SUPPLIED BY THE KEYNET.
- THE HYDROGRAPHIC SURVEY SYSTEM COMPRISED OF A 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM, AND LEAD LINES, AS WELL AS HYPACK ACQUISITION SOFTWARE.
- SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO DEPTHS BELOW THE VERTICAL REFERENCE PLANE. THE VERTICAL REFERENCE PLAN FOR THIS PROJECT IS MEAN LOW WATER (MLLW) DATUM.
- SOUNDINGS ARE BASED ON 10'X10' MINIMUM VALUE DATA SET SORTED ON A 12X12 GRID.

- SOUNDINGS SHOWN AS NEGATIVE ARE ABOVE THE REFERENCE PLANE.
- COORDINATES ARE BASED ON NAD83 (2011), SPCS CALIFORNIA ZONE 2 - U.S. SURVEY FEET GRID.
- CONTOURS ARE BASED ON 3'X3' MINIMUM VALUE DATA SET.
- SECTIONS AND VOLUMES ARE BASED ON 3'X3' AVERAGE VALUE DATA SET.
- THE SOUNDINGS INFORMATION DEPICTED ON THIS PLAN SHOULD NOT BE USED FOR THE DETERMINATION OF VOLUMES. VOLUMES ARE TO BE DETERMINED FROM A SEPARATE AVERAGE VALUE DATA SET.
- SHORELINE, BRIDGES, PIERS, ETC. ARE SCALED FROM ORTHO IMAGERY. ORTHO IMAGERY AND SCALED DATA IS APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.
- 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 FOR MORE DETAILED INFORMATION.
- HORIZONTAL CONTROL: VERTICAL CONTROL FOR THE PROJECT WAS THE USACE 10' NAIL LOCATED AT FUEL DOCK.
- VERTICAL DATUM: MLLW, U.S. SURVEY FEET

**HYDROGRAPHIC SURVEY NOTES**

SURVEY DATE: JUNE 13, 2022  
 SURVEYOR: BAY MARINE SERVICES  
 TRANS/FATH: 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM  
 WEATHER COND: 75°, PARTLY SUNNY  
 PROJECT DATUM: MLLW  
 COORDINATE SYSTEM: NAD83 (CA ZONE II)  
 DATA REDUCTION: 3'X3' AVERAGE VALUE DATA SET FOR VOLUMES  
 SOUNDINGS BASED ON 3'X3' MIN. VALUE DATA SET SORTED ON A 12X12 GRID

**CONSTRUCTION NOTES:**

- COMMENCE DREDGING PROJECT AS ALLOWED IN, AND IN ACCORDANCE WITH, APPROVED SEQUENCE OF WORK, PROJECT SCHEDULE AND REGULATORY PERMITS.
- DREDGED MATERIAL SHALL BE DISPOSED OF AT THE SAN PABLO BAY DISPOSAL SITE (SF-10).
- THE CONTRACTOR SHALL PROVIDE SKILLED WORKMEN AND SUPERVISORS WHO SHALL BE PRESENT AT ALL TIMES DURING EXECUTION OF THE WORK AND WHO SHALL BE THOROUGHLY FAMILIAR WITH THE TYPE OF CONSTRUCTION INVOLVED AND THE MATERIALS AND TECHNIQUES SPECIFIED. NO ALLOWANCES WILL BE MADE FOR THE LACK OF SKILL ON THE PART OF THE WORKMEN.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS REGARDING THE PROTECTION AND FILTERING OF FOREIGN DEBRIS FROM THE WATER. ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED AND REMOVED FROM THE SITE IN ACCORDANCE WITH THE APPROPRIATE GUIDELINES OF THE ENVIRONMENTAL PERMIT.
- ALL DEBRIS MATERIALS SHALL BE CLEARED FROM THE PROJECT SITE AND DISPOSED OF AT AN APPROVED DISPOSAL SITE AND ACCORDING TO PERMITS ISSUED FOR THIS PROJECT.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES MEASURES (I.E. SILT FENCE, SEDIMENT BOOMS, WATER QUALITY MONITORING, ETC) AS NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS SHOWN IN THESE PLANS AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES, PRIOR TO PROCEEDING WITH WORK.

**DREDGING NOTES:**

- DREDGING TO BE PERFORMED USING MECHANICAL METHODS WITH ALL SEDIMENTS DISPOSED AT SAN PABLO BAY (SF-10).
- CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS BEFORE BIDDING, AND COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS AND SITE CONDITIONS AND UNDERSTAND THE CHARACTER, QUALITY AND QUANTITY OF WORK CALLED FOR INCLUDING ALL CONDITIONS OF THE CONTRACT. THE CONTRACTOR SHALL CAREFULLY COMPARE AND CHECK ALL CONTRACT DOCUMENTS FOR OMISSIONS AND DISCREPANCIES AND THESE SHALL BE REPORTED PROMPTLY TO THE COMPANY AND ENGINEER OF RECORD AND SHALL BE RECTIFIED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT A PROJECT SCHEDULE AND PROPOSED PLAN OF OPERATIONS TO THE COMPANY FOR APPROVAL BEFORE COMMENCEMENT OF WORK. PROJECT SCHEDULE SHALL INCLUDE PLANNED SEQUENCE OF WORK AND PHASING OF INDIVIDUAL WORK ITEMS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK WITHIN THE GUIDELINES AND TIME CONSTRAINTS SET BY THE ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT. CONTRACTOR SHALL COMPLETE WORK WITHIN THE TIME IDENTIFIED IN THE CONTRACT DOCUMENTS.

- THE CONTRACTOR SHALL TAKE PRECAUTIONS REGARDING THE PROTECTION AND FILTERING OF FOREIGN DEBRIS FROM THE WATER. ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED AND REMOVED FROM THE SITE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, PERMITS, AND APPLICABLE STATE AND FEDERAL LAWS.
- ALL DEMOLITION/DEBRIS MATERIALS SHALL BE CLEARED FROM THE PROJECT SITE AND DISPOSED OF AT AN APPROVED (LEGAL) DISPOSAL SITE AND ACCORDING TO PERMITS ISSUED FOR THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLOATING NOTIFICATIONS ALONG THE RIVER, INCLUDING FLOATING BUOYS, AND NOTIFICATIONS OF DOCK AND TURNING BASIN CLOSURES.

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**PERMITS**

DATE	DOCUMENT TITLE
09/17/2020	CDFW NO. 1600-2020-0016-R3, CITY OF PETALUMA MAINTENANCE DREDGING
01/26/2021	BCDC PERMIT NO. M2020.001.00
04/02/2021	USACE FILE NUMBER 2011-00153
06/01/2021	USACE LETTER OF PERMISSION FILE NO. SPN-2021-00066
06/02/2021	CDFW EPIMS NOTIFICATION NO. SON-16617 R3
09/27/2021	SFBRWQCB PLACE ID: 875673
11/24/2021	SFBRWQCB PLACE ID: 248083 2021 AMENDMENT
07/11/2022	USACE FILE NUMBER 2011-00153: TIER 1 REQUEST
08/02/2022	CA SLC FILE REF: PRC 5607

**TIDAL STAGE**

	NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)	MEAN LOWER LOW WATER (MLLW)	MEAN LOW WATER (MLW)
MEAN HIGHER HIGH WATER (MHHW)	+6.30	+6.01	+6.95
MEAN HIGH WATER (MHW)	+5.77	+5.48	+6.42
MEAN LOW WATER (MLW)	+1.23	+0.94	+0.00
MEAN LOWER LOW WATER (MLLW)	+0.29	+0.00	-0.94
NORTH AMERICAN DATUM OF 1988 (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

DATE: MAY 2021 (REVISED AUGUST 18, 2022)  
 DESIGNED BY: JD  
 DRAWN BY: KEF/CFF  
 CHECKED BY: WR

PROJECT NO.  
0020P015.00

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



PETALUMA TURNING BASIN DREDGING PROJECT  
 GENERAL NOTES AND SURVEY CONTROL

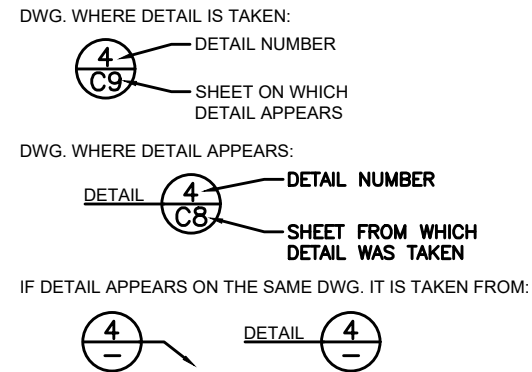
**LEGEND**

- PROJECT BASELINE
- EXISTING GRADE
- DREDGE DEPTH
- OVER-DREDGE DEPTH
- SOUNDINGS
- DREDGE AREA
- TO BE REMOVED AND REINSTALLED
- TO BE REMOVED AND DISPOSED OF
- 0.0' MEAN LOWER LOW WATER
- EXISTING BUILDING
- LIMITS OF FEDERAL CHANNEL
- EXISTING TIMBER PILE
- EXISTING STEEL PILE
- PETALUMA SMALL CRAFT CENTER FLOATS

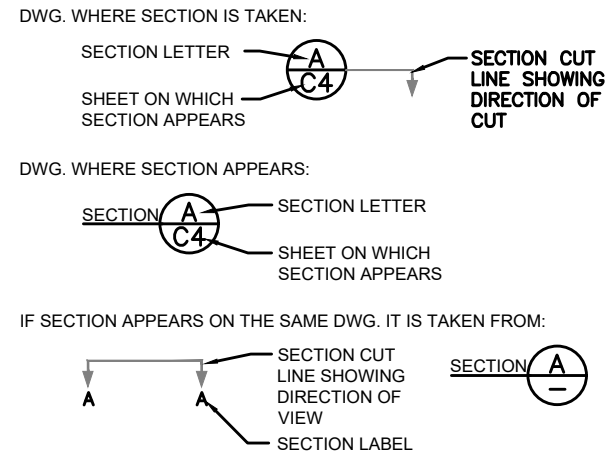
**ABBREVIATIONS**

- ABND ABANDONED
- APPROX APPROXIMATE
- CL CENTERLINE
- CY CUBIC YARD
- E EAST
- EG EXISTING GRADE
- EL ELEVATION
- EX EXISTING
- FG FINISH GRADE
- FT FEET
- HPRIZ HORIZONTAL
- IN INCES
- MAX MAXIMUM
- MHW MEAN HIGH WATER
- MHHW MEAN HIGHER HIGH WATER
- MIN MINIMUM
- MLW MEAN LOW WATER
- MLLW MEAN LOER LOW WATER
- N NORTH
- NAD NORETH AMERICAN DATUM
- NAVD NORTH MANERICAN VERTICAL DATUM
- OD OVER DREDGE
- ODR OWNER'S DESIGNATED REPRESENTATIVE
- PSCC PETALUMA SMALL CRAFT CENTER
- REQ'D REQUIRED
- S SOUTH
- SF-10 SAN PABLO BAY DISPOSAL SITE
- STA STATION
- SQFT SQUARE FEET
- TYP TYPICAL
- VIF VERIFY IN FIELD
- W WEST
- & AND
- @ AT
- ± CENTER LINE
- ± PLUS OR MINUS

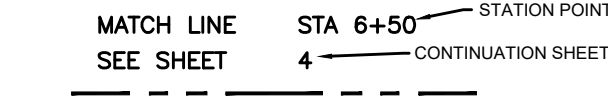
**DETAIL NUMBERING**



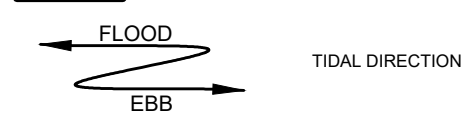
**SECTION NUMBERING**



**MATCH LINE**



**SYMBOLS**



**DREDGE VOLUME TABLE**

PROJECT SITE	DREDGE VOLUME (CUBIC YARDS)	OVER DREDGE VOLUME (CUBIC YARDS)	TOTAL VOLUME (CUBIC YARDS)
PETALUMA RIVER AND TURNING BASIN	6,274	1,535	7,809



DATE: MAY 2021/REVISED AUGUST 18, 2022  
 DESIGNED BY: JD  
 DRAWN BY: KEF/CFF  
 CHECKED BY: WR

PROJECT NO.  
0020P015.00

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RECORD DRAWING REFERENCE			
NO.	DATE	DESCRIPTION	BY

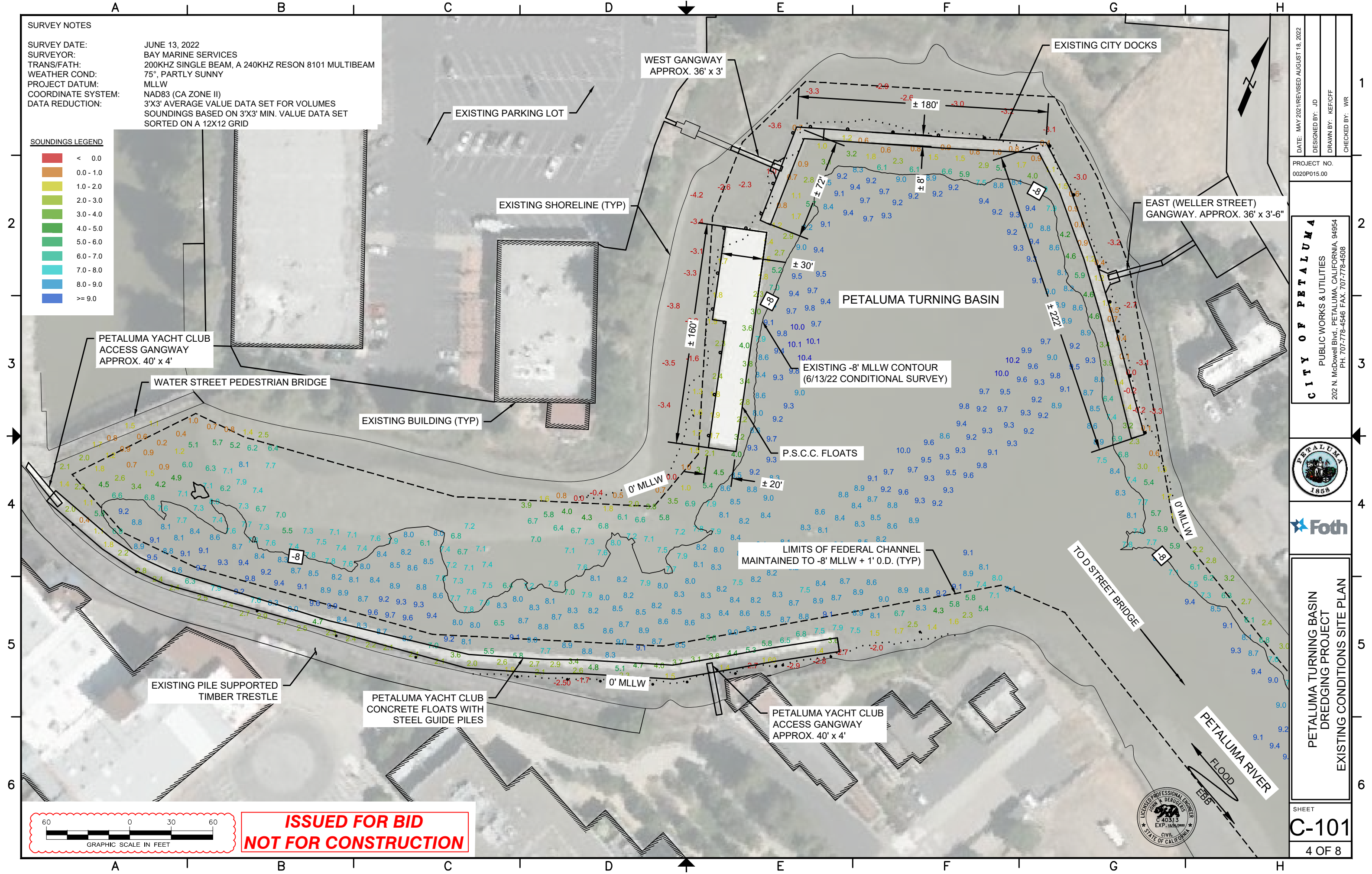
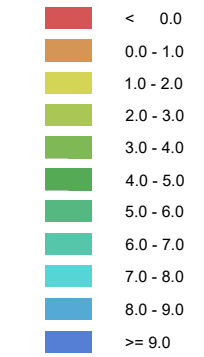
PROJECT RESOURCE DATA (FOR CITY USE)	
PROJECT START	
PROJECT END	
PROJECT CONTRACTOR	
CONTRACTOR'S SUPER.	
REGULATORY PERMITS	TO BE PROVIDED IN ISSUED FOR CONSTRUCTION PLAN SET
PROJECT MANAGER	
PROJECT INSPECTOR	
OTHER	

PETALUMA TURNING BASIN  
 DREDGING PROJECT  
 ABBREVIATIONS, SYMBOLS, REVISIONS

**SURVEY NOTES**

SURVEY DATE: JUNE 13, 2022  
SURVEYOR: BAY MARINE SERVICES  
TRANS/FATH: 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM  
WEATHER COND: 75°, PARTLY SUNNY  
PROJECT DATUM: MLLW  
COORDINATE SYSTEM: NAD83 (CA ZONE II)  
DATA REDUCTION: 3'X3' AVERAGE VALUE DATA SET FOR VOLUMES  
SOUNDINGS BASED ON 3'X3' MIN. VALUE DATA SET  
SORTED ON A 12X12 GRID

**SOUNDINGS LEGEND**



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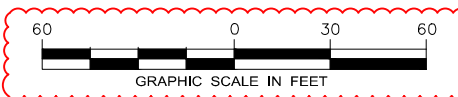
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**PETALUMA TURNING BASIN  
DREDGING PROJECT  
EXISTING CONDITIONS SITE PLAN**

SHEET  
**C-101**  
4 OF 8

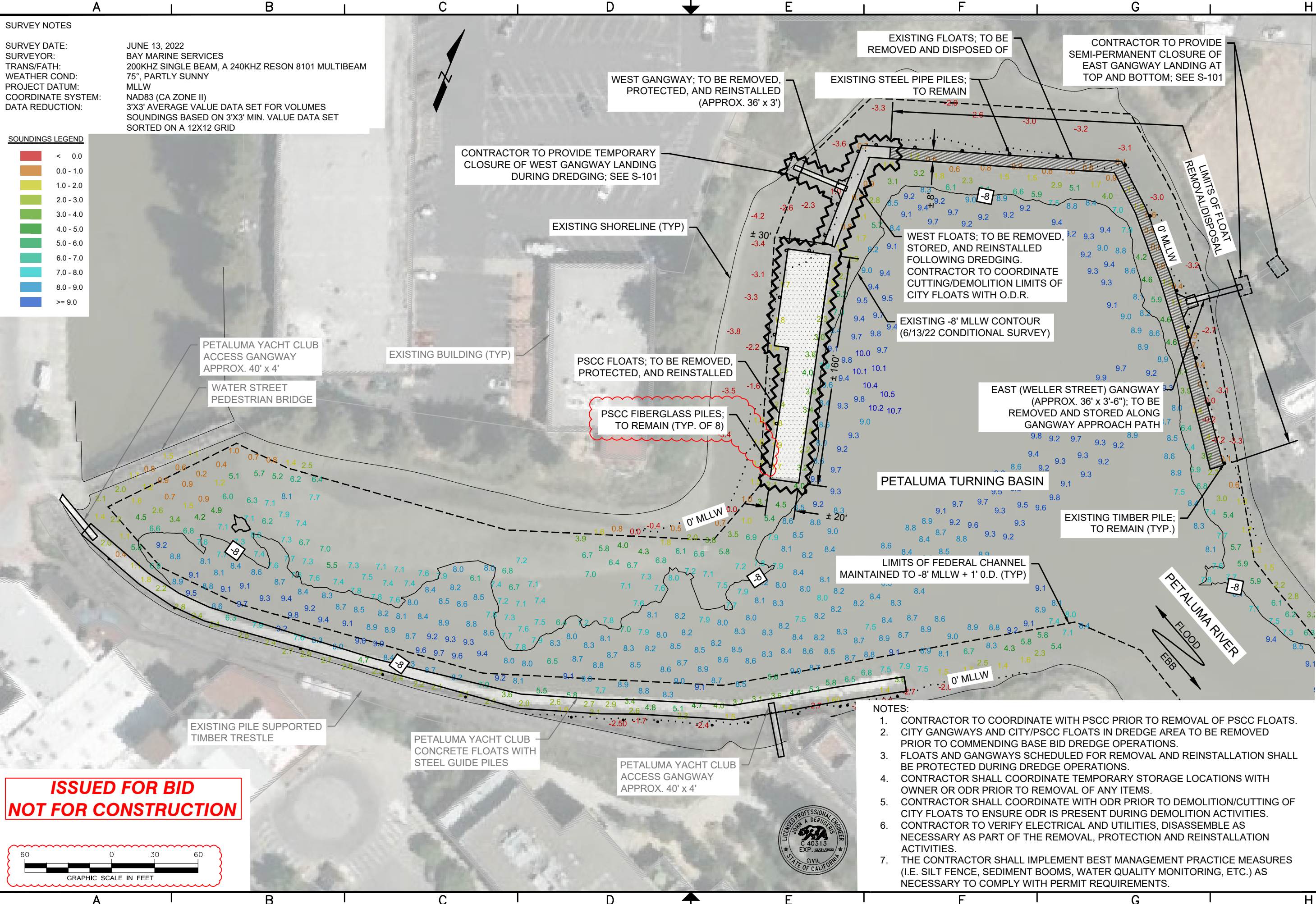
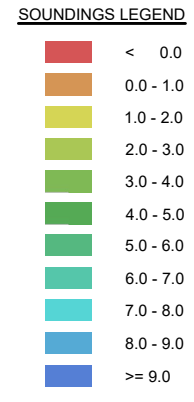


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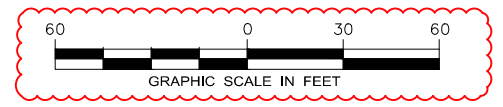


**SURVEY NOTES**

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 SURVEYOR: BAY MARINE SERVICES  
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 SOUNDINGS BASED ON 3'X3' MIN. VALUE DATA SET  
 SORTED ON A 12X12 GRID



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- NOTES:**
1. CONTRACTOR TO COORDINATE WITH PSCC PRIOR TO REMOVAL OF PSCC FLOATS.
  2. CITY GANGWAYS AND CITY/PSCC FLOATS IN DREDGE AREA TO BE REMOVED PRIOR TO COMMENDING BASE BID DREDGE OPERATIONS.
  3. FLOATS AND GANGWAYS SCHEDULED FOR REMOVAL AND REINSTALLATION SHALL BE PROTECTED DURING DREDGE OPERATIONS.
  4. CONTRACTOR SHALL COORDINATE TEMPORARY STORAGE LOCATIONS WITH OWNER OR ODR PRIOR TO REMOVAL OF ANY ITEMS.
  5. CONTRACTOR SHALL COORDINATE WITH ODR PRIOR TO DEMOLITION/CUTTING OF CITY FLOATS TO ENSURE ODR IS PRESENT DURING DEMOLITION ACTIVITIES.
  6. CONTRACTOR TO VERIFY ELECTRICAL AND UTILITIES, DISASSEMBLE AS NECESSARY AS PART OF THE REMOVAL, PROTECTION AND REINSTALLATION ACTIVITIES.
  7. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICE MEASURES (I.E. SILT FENCE, SEDIMENT BOOMS, WATER QUALITY MONITORING, ETC.) AS NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS.



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PROJECT NO.  
 0020P015.00

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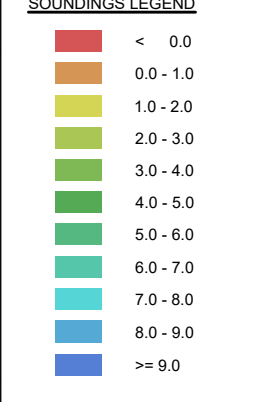


**PETALUMA TURNING BASIN  
 DREDGING PROJECT  
 DEMOLITION PLAN**

SHEET  
**C-102**  
 5 OF 8

**SURVEY NOTES**

SURVEY DATE: JUNE 13, 2022  
 SURVEYOR: BAY MARINE SERVICES  
 TRANS/FATH: 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM  
 WEATHER COND: 75°, PARTLY SUNNY  
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 SORTED ON A 12X12 GRID



PETALUMA YACHT CLUB  
ACCESS GANGWAY  
APPROX. 40' x 4'

PETALUMA RIVER DREDGE AREA  
DREDGE TO -8' MLLW + 1' O.D.

EXISTING SHORELINE (TYP.)

EXISTING PSCC FIBERGLASS  
PILES; TO REMAIN (TYP.)

EXISTING BUILDING (TYP.)

TOE OF SLOPE SHALL BE LOCATED A  
MINIMUM OF 20' FROM ADJACENT  
SHORELINE/REVTMENT/STRUCTURE;  
CONTRACTOR SHALL BOX CUT AT TOE  
AND REMOVE ALL MATERIAL THAT  
SLOUGHS INTO DREDGE TEMPLATE (TYP.)

LIMITS OF FEDERAL CHANNEL  
MAINTAINED TO -8' MLLW + 1' O.D. (TYP.)

EXISTING -8' MLLW CONTOUR  
(6/13/22 CONDITIONAL SURVEY)

EXISTING STEEL AND TIMBER PILES;  
TO REMAIN (TYP.)

TURNING BASIN DREDGE AREA  
DREDGE TO -8' MLLW + 1' O.D.

PETALUMA TURNING BASIN

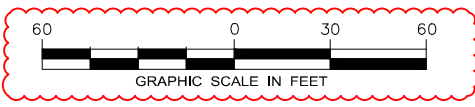
PETALUMA RIVER  
FLOOD  
EBB

EXISTING PILE SUPPORTED  
TIMBER TRESTLE

PETALUMA YACHT CLUB  
CONCRETE FLOATS WITH  
STEEL GUIDE PILES

PETALUMA YACHT CLUB  
ACCESS GANGWAY  
APPROX. 40' x 4'

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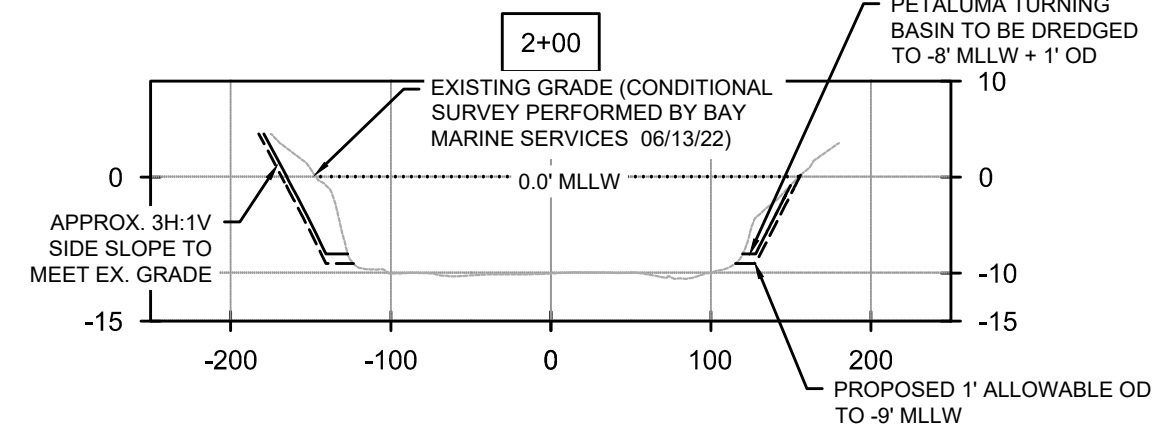
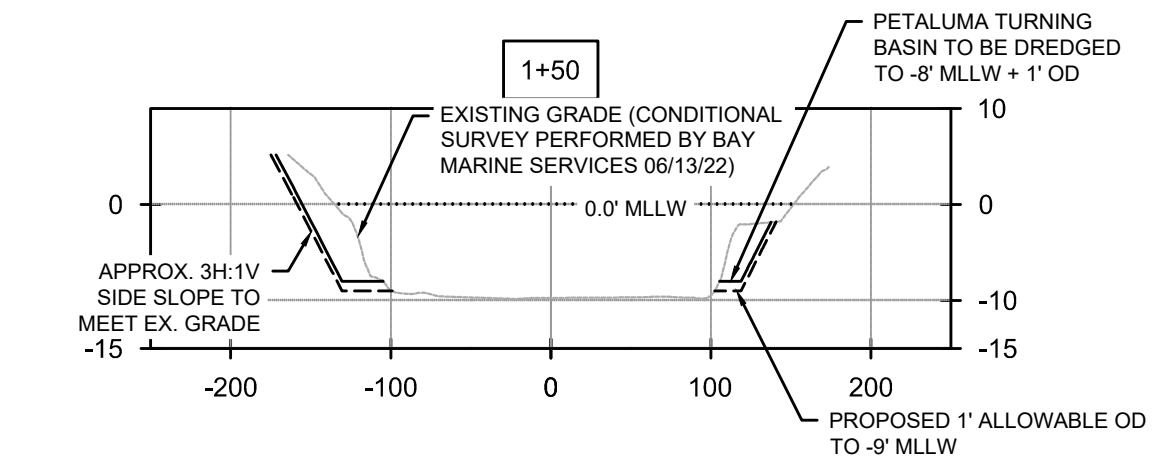
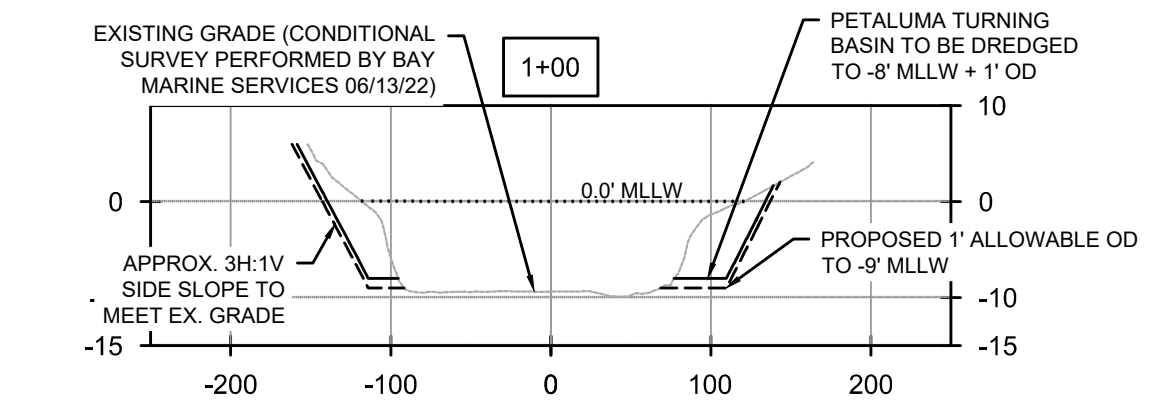
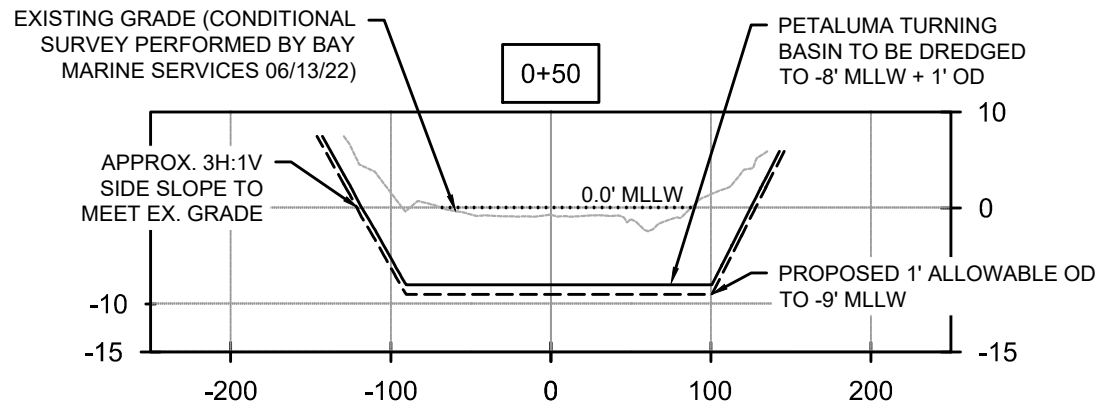
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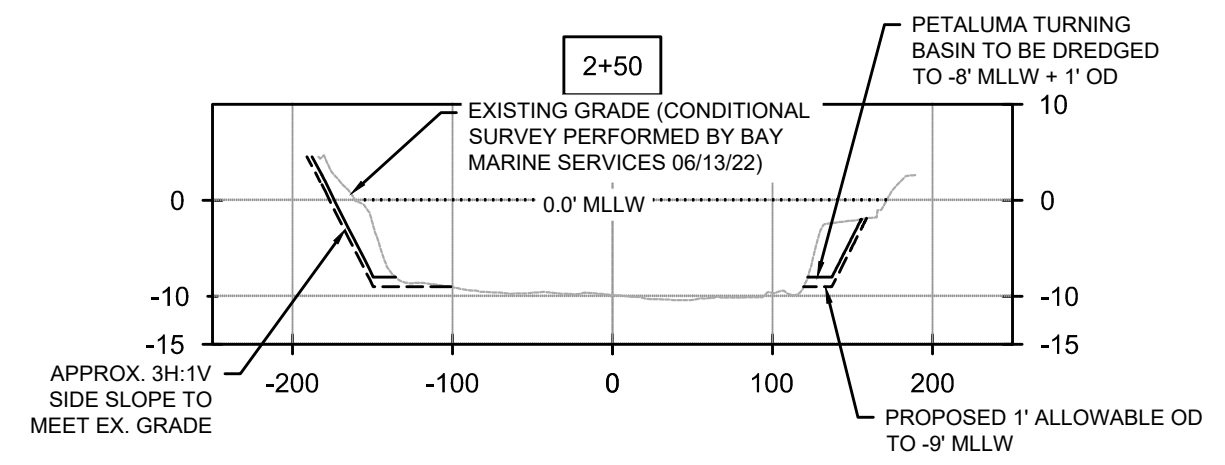
PETALUMA TURNING BASIN  
DREDGING PROJECT  
DREDGE PLAN

SHEET  
**C-103**  
6 OF 8

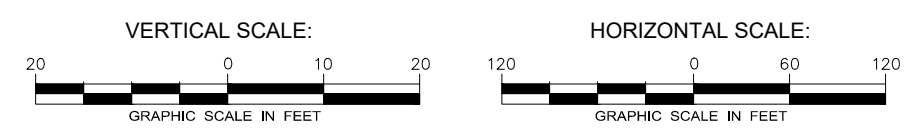
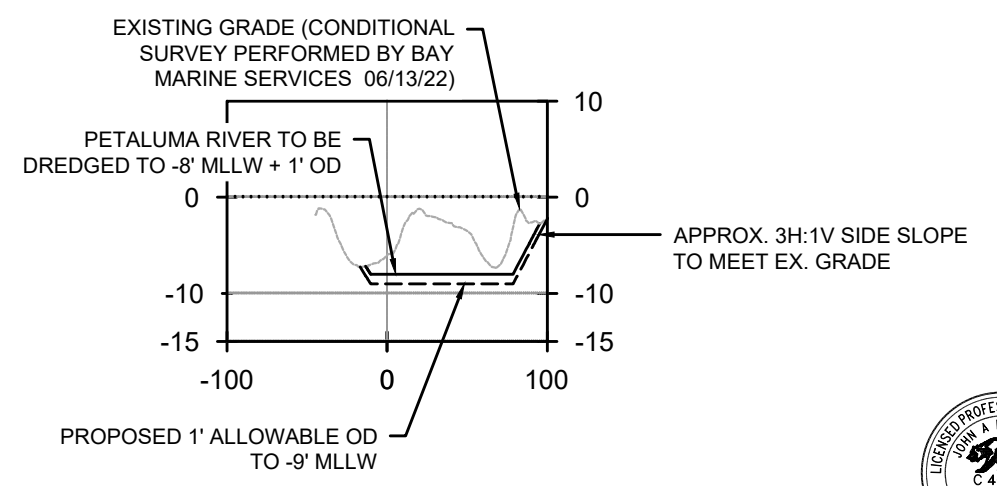
PETALUMA TURNING BASIN DREDGE AREA



PETALUMA TURNING BASIN DREDGE AREA



PETALUMA RIVER DREDGE AREA  
LOCATED SOUTH OF WATER STREET PEDESTRIAN BRIDGE



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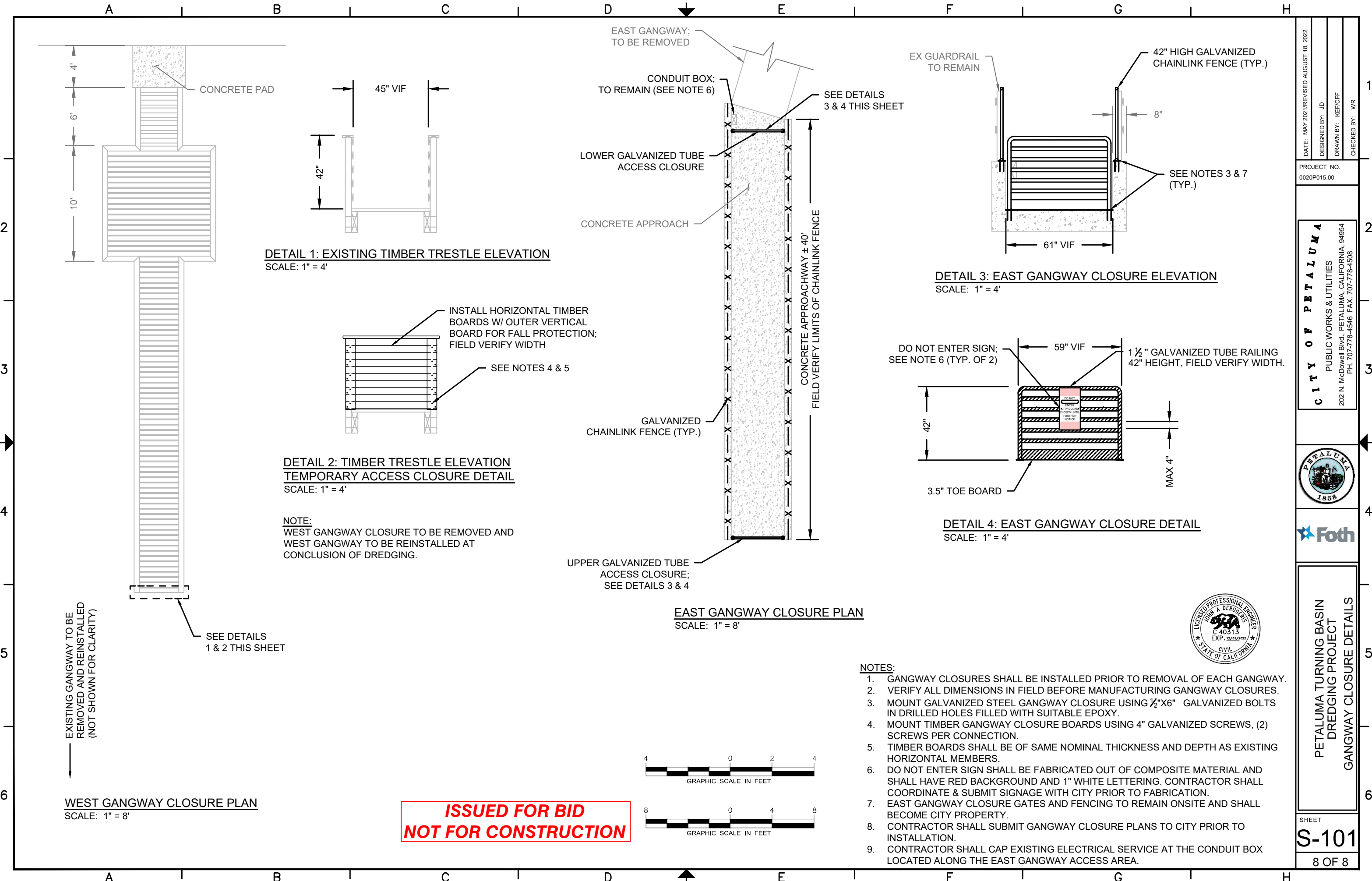
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PETALUMA TURNING BASIN  
DREDGING PROJECT  
TURNING BASIN DREDGE SECTIONS

SHEET  
**D-101**  
7 OF 8



**DETAIL 1: EXISTING TIMBER TRESTLE ELEVATION**  
SCALE: 1" = 4'

**DETAIL 2: TIMBER TRESTLE ELEVATION  
TEMPORARY ACCESS CLOSURE DETAIL**  
SCALE: 1" = 4'

**DETAIL 3: EAST GANGWAY CLOSURE ELEVATION**  
SCALE: 1" = 4'

**DETAIL 4: EAST GANGWAY CLOSURE DETAIL**  
SCALE: 1" = 4'

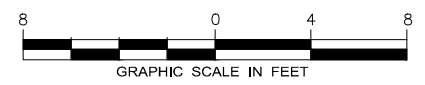
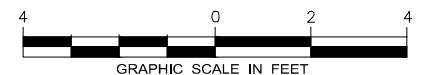
**EAST GANGWAY CLOSURE PLAN**  
SCALE: 1" = 8'

**WEST GANGWAY CLOSURE PLAN**  
SCALE: 1" = 8'

**NOTE:**  
WEST GANGWAY CLOSURE TO BE REMOVED AND  
WEST GANGWAY TO BE REINSTALLED AT  
CONCLUSION OF DREDGING.

EXISTING GANGWAY TO BE  
REMOVED AND REINSTALLED  
(NOT SHOWN FOR CLARITY)

**ISSUED FOR BID  
NOT FOR CONSTRUCTION**



**NOTES:**

- GANGWAY CLOSURES SHALL BE INSTALLED PRIOR TO REMOVAL OF EACH GANGWAY.
- VERIFY ALL DIMENSIONS IN FIELD BEFORE MANUFACTURING GANGWAY CLOSURES.
- MOUNT GALVANIZED STEEL GANGWAY CLOSURE USING 1/2"x6" GALVANIZED BOLTS IN DRILLED HOLES FILLED WITH SUITABLE EPOXY.
- MOUNT TIMBER GANGWAY CLOSURE BOARDS USING 4" GALVANIZED SCREWS, (2) SCREWS PER CONNECTION.
- TIMBER BOARDS SHALL BE OF SAME NOMINAL THICKNESS AND DEPTH AS EXISTING HORIZONTAL MEMBERS.
- DO NOT ENTER SIGN SHALL BE FABRICATED OUT OF COMPOSITE MATERIAL AND SHALL HAVE RED BACKGROUND AND 1" WHITE LETTERING. CONTRACTOR SHALL COORDINATE & SUBMIT SIGNAGE WITH CITY PRIOR TO FABRICATION.
- EAST GANGWAY CLOSURE GATES AND FENCING TO REMAIN ONSITE AND SHALL BECOME CITY PROPERTY.
- CONTRACTOR SHALL SUBMIT GANGWAY CLOSURE PLANS TO CITY PRIOR TO INSTALLATION.
- CONTRACTOR SHALL CAP EXISTING ELECTRICAL SERVICE AT THE CONDUIT BOX LOCATED ALONG THE EAST GANGWAY ACCESS AREA.



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<b>PETALUMA TURNING BASIN DREDGING PROJECT GANGWAY CLOSURE DETAILS</b>			
SHEET			
<b>S-101</b>			
8 OF 8			