

PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

CITY OF PITTSBURG | CONTRACT 2023-23 | MAY 2023

THE CITY COUNCIL OF THE CITY OF PITTSBURG
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DRAWING INDEX		
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3	C02	DREDGING PLAN LAUNCH RAMP
4	C03	DREDGING PLAN RESIDENTIAL CHANNEL (1 OF 2)
5	C04	DREDGING PLAN RESIDENTIAL CHANNEL (2 OF 2)
6	C05	TYPICAL CROSS SECTIONS
7	C06	SITE PHOTOGRAPHS

ABBREVIATIONS


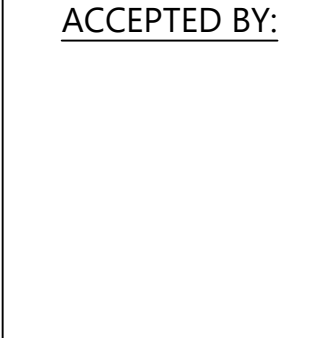
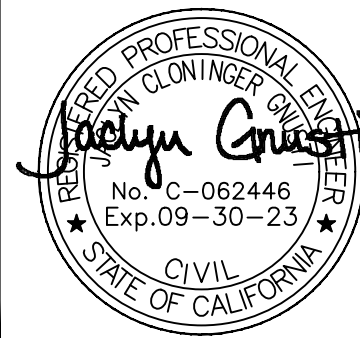
APPROX.	APPROXIMATE
DWG	DRAWING
(E)	EXISTING
ELEV	ELEVATION
FT	FEET
H	HORIZONTAL
MLLW	MEAN LOWER LOW WATER
MWRP	MONTEZUMA WETLAND RESTORATION PROJECT
NAD	NORTH AMERICAN DATUM
STA	STATION
TYP	TYPICAL
V	VERTICAL



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PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY

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	CITY OF PITTSBURG	ACCEPTED BY: 		REVISIONS	DESIGNED BY: <u>K. JOURNEY</u> DRAWN BY: <u>T. GRIGA</u> CHECKED BY: <u>J. GNUSTI</u> APPROVED BY: <u>J. GNUSTI</u> SCALE: <u>AS NOTED</u> DATE: <u>MAY 2023</u>	PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING	G01																				
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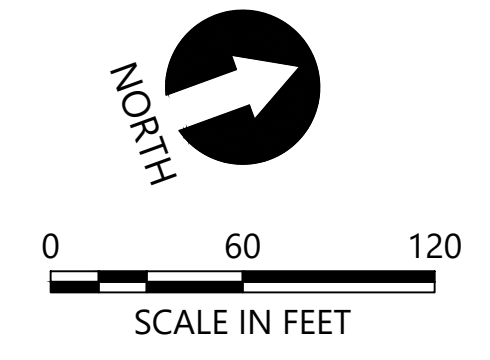
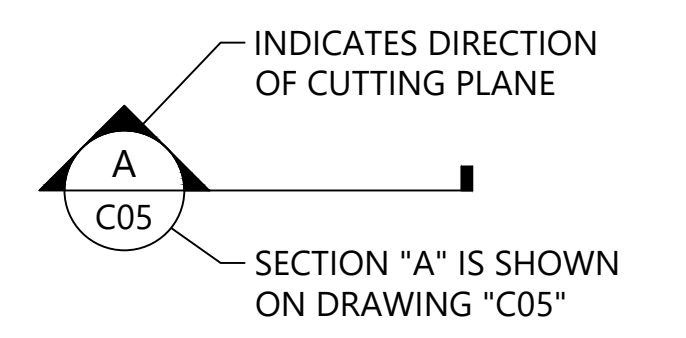
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 May 25, 2023 11:56am tgriga



- NOTES:
1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 3, NAD 83, U.S. FEET.
 2. IN WATER VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
 3. EXISTING BATHYMETRIC SOUNDINGS PROVIDED BY ETRAC, INC. SURVEY DATED JULY 21, 22, AND 25, 2022. BATHYMETRY AT TIME OF DREDGING MAY DIFFER.
 4. THE REQUIRED DREDGE ELEVATION MUST BE ACHIEVED IN THE ENTIRE DREDGE AREA FOR IT TO BE ACCEPTED AS COMPLETE. HOWEVER, SEDIMENT MAY REMAIN UNDER THE FLOATING DOCKS LEFT IN PLACE AS LONG AS THE BERTHING AREA IS DREDGED TO THE REQUIRED DREDGE ELEVATION. THE CITY WILL COMPARE THE PRE-DREDGE SURVEYS TO ENSURE THAT DREDGED SEDIMENT FROM THESE AREA WAS REMOVED FROM SITE.
 5. CONTRACTOR TO TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, DOCK COVERS, ROCK REVETMENTS, SHEET PILE WALLS, PILING, AND OTHER EXISTING SITE FEATURES WHILE DREDGING IN ADJACENT AREAS. CONTRACTOR TO COORDINATE WITH THE CITY PRIOR TO DREDGING TO CONFIRM REQUIRED OFFSET OF DREDGE TOE FROM THESE FEATURES.
 6. THE CITY MAY OVERSEE OPERATIONS TO ENSURE THE DREDGING OBJECTIVE IS MET. IF FIELD MODIFICATIONS ARE DIRECTED BY THE CITY TO ACCOMMODATE EXISTING STRUCTURES AND/OR PREVENT SLOPE FAILURE, THE CONTRACTOR WILL BE COMPENSATED FOR ACTUAL VOLUME DREDGED IN ACCORDANCE WITH THE SPECIFICATIONS.
 7. EXISTING FLOATING DOCKS AND COVERED STRUCTURES IN DREDGE AREA A WILL NOT BE REMOVED TO FACILITATE COMPLETION OF DREDGING.

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- LEGEND:
- Existing bathymetric sounding (ft, MLLW)
 - Existing top of slope (approximate)
 - Toe of dredge slope (dredging footprint)
 - Required dredge area (per July 2022 hydrographic survey)
 - Dredge area C station line



PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE"
 ONE INCH = FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

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CITY OF PITTSBURG



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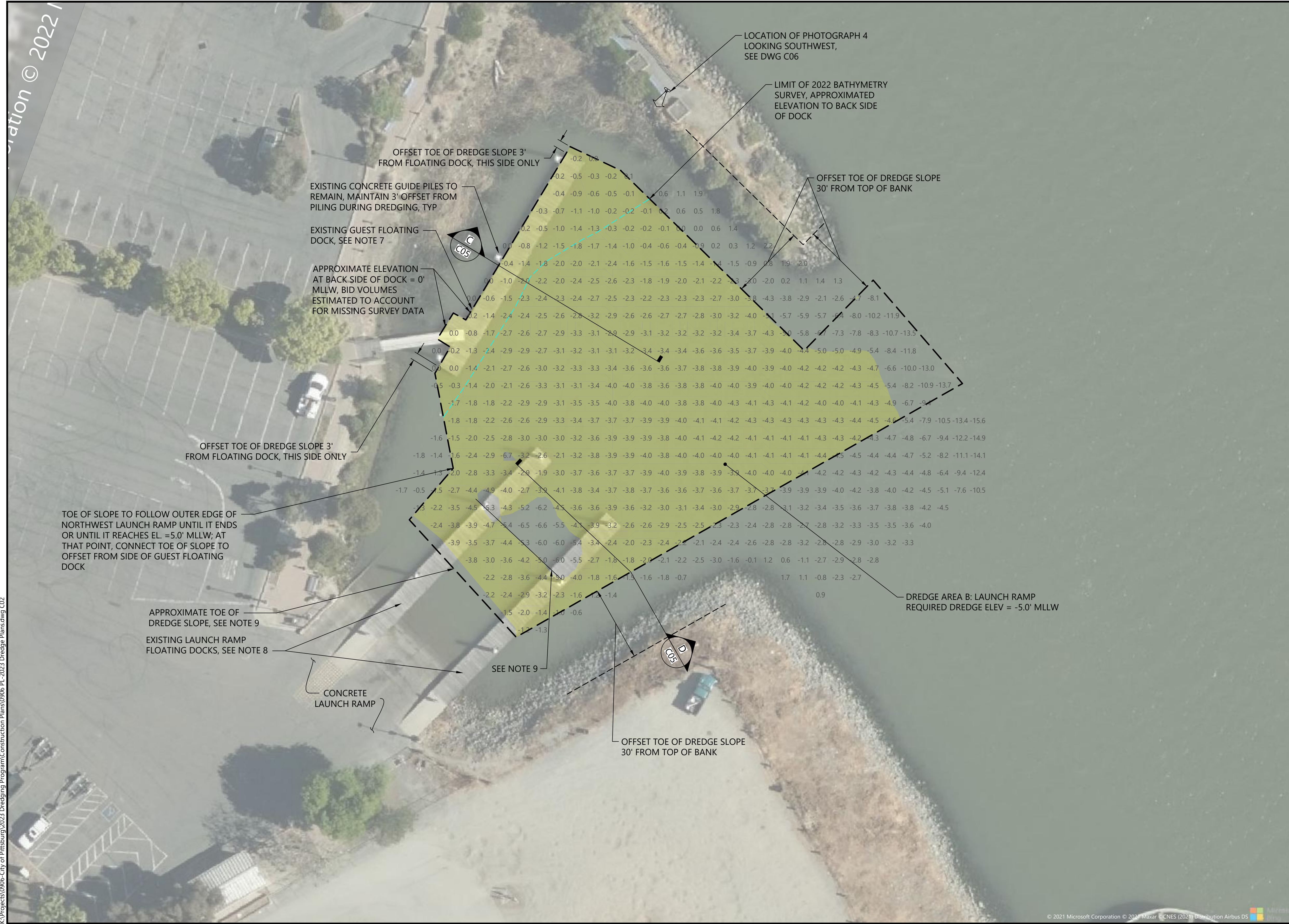
PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

DREDGING PLAN BASIN 3

C01

SHEET # 2 OF 7

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- NOTES:**
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 - THE REQUIRED DREDGE ELEVATION MUST BE ACHIEVED IN THE ENTIRE DREDGE AREA FOR IT TO BE ACCEPTED AS COMPLETE. HOWEVER, SEDIMENT MAY REMAIN UNDER THE FLOATING DOCKS LEFT IN PLACE AS LONG AS THE BERTHING AREA IS DREDGED TO THE REQUIRED DREDGE ELEVATION. THE CITY WILL COMPARE THE PRE-DREDGE SURVEYS TO ENSURE THAT DREDGED SEDIMENT FROM THESE AREA WAS REMOVED FROM SITE.
 - CONTRACTOR TO TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, DOCK COVERS, ROCK REVETMENTS, SHEET PILE WALLS, PILING, AND OTHER EXISTING SITE FEATURES WHILE DREDGING IN ADJACENT AREAS. CONTRACTOR TO COORDINATE WITH THE CITY PRIOR TO DREDGING TO CONFIRM REQUIRED OFFSET OF DREDGE TOE FROM THESE FEATURES.
 - THE CITY MAY OVERSEE OPERATIONS TO ENSURE THE DREDGING OBJECTIVE IS MET. IF FIELD MODIFICATIONS ARE DIRECTED BY THE CITY TO ACCOMMODATE EXISTING STRUCTURES AND/OR PREVENT SLOPE FAILURE, THE CONTRACTOR WILL BE COMPENSATED FOR ACTUAL VOLUME DREDGED IN ACCORDANCE WITH THE SPECIFICATIONS.
 - EXISTING GUEST FLOATING DOCK IN DREDGE AREA B WILL BE REMOVED DURING DREDGING. DREDGE TEMPLATE INCLUDES THE ENTIRE UNDERSIDE OF FLOATING DOCK INCLUDING GANGWAY LANDING. SEDIMENT MUST BE REMOVED TO THE REQUIRED DREDGE ELEVATION, UNLESS OTHERWISE DIRECTED BY THE CITY IN WRITING. THE FINAL DREDGE SURFACE UNDER FLOATING DOCK MUST BE LEVEL (NOT VARY BY MORE THAN 1 FOOT IN ELEVATION)
 - EXISTING LAUNCH RAMP FLOATING DOCKS IN DREDGE AREA B WILL NOT BE REMOVED TO FACILITATE COMPLETION OF DREDGING.
 - CONTRACTOR TO FIELD VERIFY THE EXTENTS OF THE CONCRETE LAUNCH RAMP AND DEMARCATÉ PRIOR TO THE START OF DREDGING ACTIVITIES. COORDINATE WITH CITY. SEDIMENT OVERLAYING THE CONCRETE LAUNCH RAMP SHALL BE REMOVED TO THE EXTENT POSSIBLE WITHOUT DAMAGING CONCRETE; THEREFORE TOE OF SLOPE FACING LANDSIDE MAY VARY FROM TOE OF DREDGE SLOPE SHOWN. CONTRACTOR TO REPAIR ANY DAMAGES TO CONCRETE FROM DREDGING AT NO EXPENSE TO THE CITY.
 - ALL DREDGING IN DREDGE AREA B MUST BE COORDINATED WITH THE CITY IN ADVANCE, AND CITY MAY OVERSEE OPERATIONS TO ENSURE THE DREDGING OBJECTIVE IS MET. IF FIELD MODIFICATIONS ARE DIRECTED BY THE CITY TO ACCOMMODATE THE EXISTING STRUCTURES AND/OR PREVENT SLOPE FAILURE, THE CONTRACTOR WILL BE COMPENSATED FOR ACTUAL VOLUME DREDGED IN ACCORDANCE WITH THE SPECIFICATIONS.

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LEGEND:

- EXISTING BATHYMETRIC SOUNDING (FT, MLLW)
- EXISTING TOP OF SLOPE (APPROXIMATE)
- TOE OF DREDGE SLOPE (DREDGING FOOTPRINT)
- REQUIRED DREDGE AREA (PER JULY 2022 HYDROGRAPHIC SURVEY)

INDICATES DIRECTION OF CUTTING PLANE

SECTION "A" IS SHOWN ON DRAWING "C05"

NORTH

0 20 40
SCALE IN FEET

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PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



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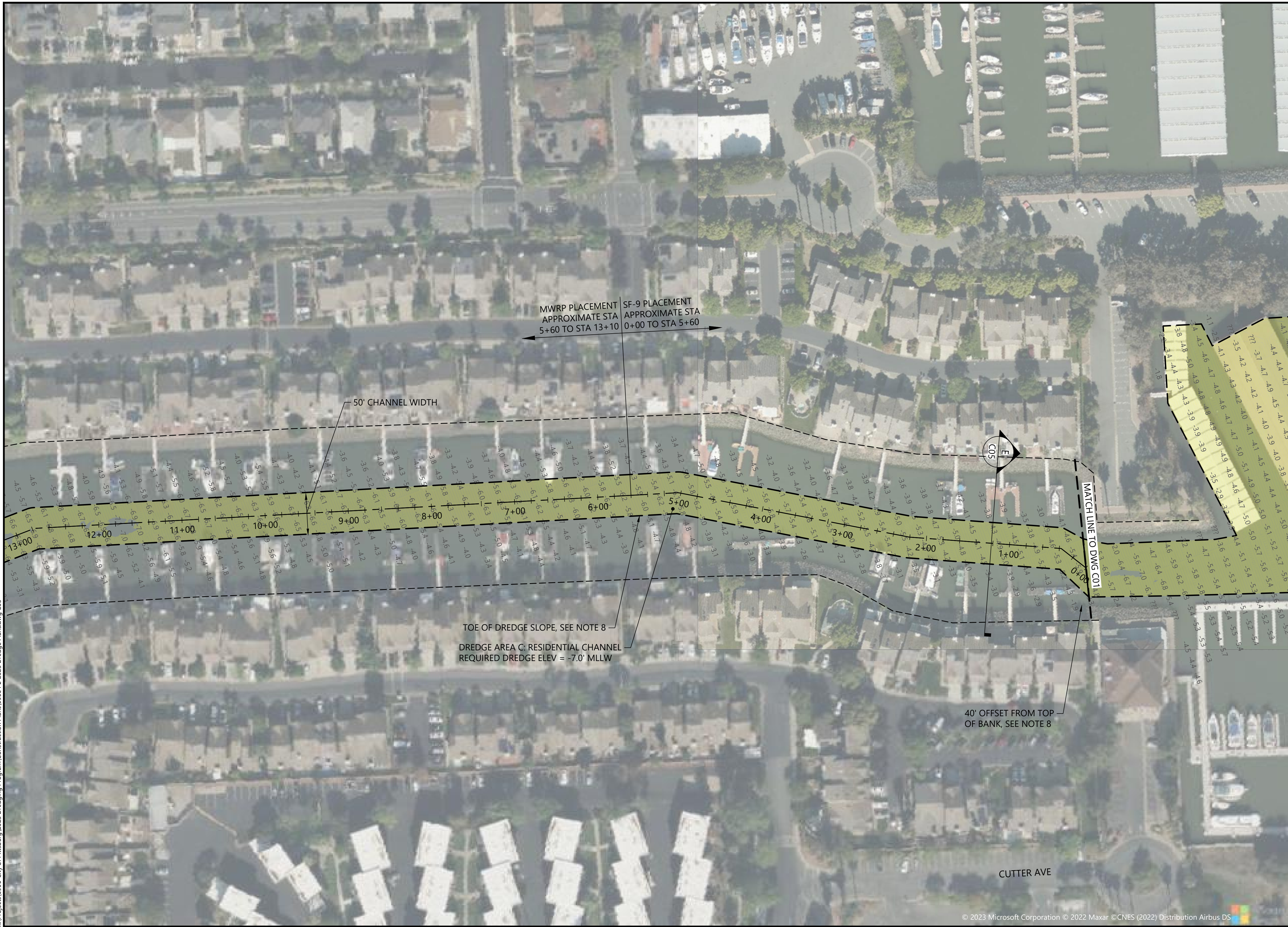
PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

DREDGING PLAN LAUNCH RAMP

C02

SHEET # **3** OF **7**

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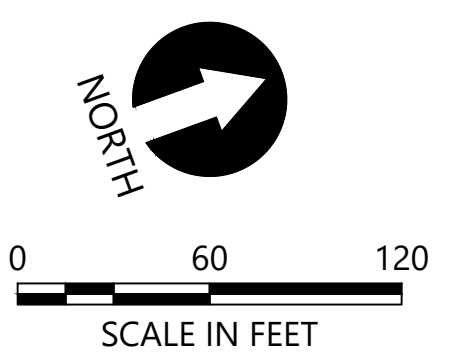
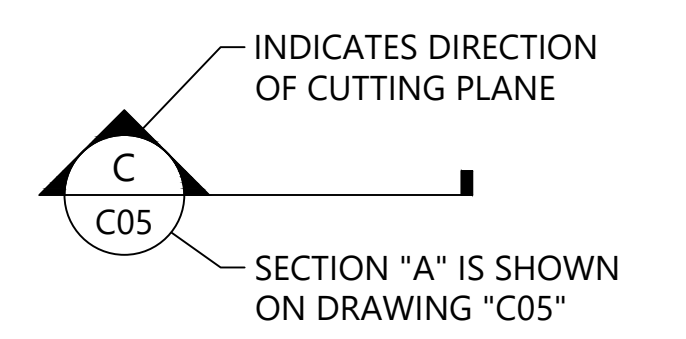
NOTES:

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7. EXISTING FLOATING DOCKS AND COVERED STRUCTURES IN DREDGE AREA C WILL NOT BE REMOVED TO FACILITATE COMPLETION OF DREDGING.
8. DREDGE AREA C DREDGE FOOTPRINT INCLUDES A GENERAL CHANNEL WIDTH OF 50 FEET, EXCEPT WHERE INDICATED AS A 400 FOOT OFFSET FROM TOP OF BANK. THE TOE OF DREDGE SLOPE MUST NEVER BE CUT WITHIN 3 FEET OF AN EXISTING FLOATING DOCK OR OTHER MARINE STRUCTURE.

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LEGEND:

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- EXISTING TOP OF SLOPE (APPROXIMATE)
- TOE OF DREDGE SLOPE (DREDGING FOOTPRINT)
- REQUIRED DREDGE AREA (PER JULY 2022 HYDROGRAPHIC SURVEY)
- DREDGE AREA C STATION LINE



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PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

DREDGING PLAN RESIDENTIAL CHANNEL (1 OF 2)

C03

SHEET # **4** OF **7**

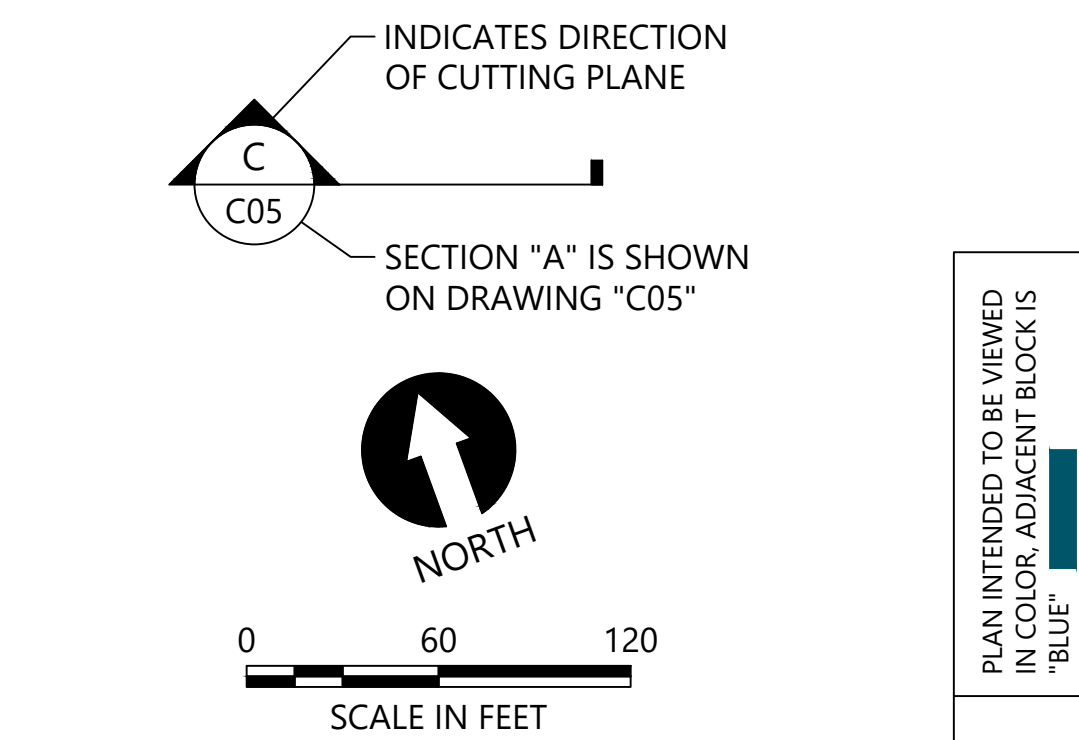
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- NOTES:
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 7. EXISTING FLOATING DOCKS AND COVERED STRUCTURES IN DREDGE AREA C WILL NOT BE REMOVED TO FACILITATE COMPLETION OF DREDGING.
 8. DREDGE AREA C DREDGE FOOTPRINT INCLUDES A GENERAL CHANNEL WIDTH OF 50 FEET, EXCEPT WHERE INDICATED AS A 40-FOOT OFFSET FROM TOP OF BANK. THE TOE OF DREDGE SLOPE MUST NEVER BE CUT WITHIN 3 FEET OF AN EXISTING FLOATING DOCK OR OTHER MARINE STRUCTURE.

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- LEGEND:
- EXISTING BATHYMETRIC SOUNDING (FT, MLLW)
 - EXISTING TOP OF SLOPE (APPROXIMATE)
 - TOE OF DREDGE SLOPE (DREDGING FOOTPRINT)
 - REQUIRED DREDGE AREA (PER JULY 2022 HYDROGRAPHIC SURVEY)
 - DREDGE AREA C STATION LINE



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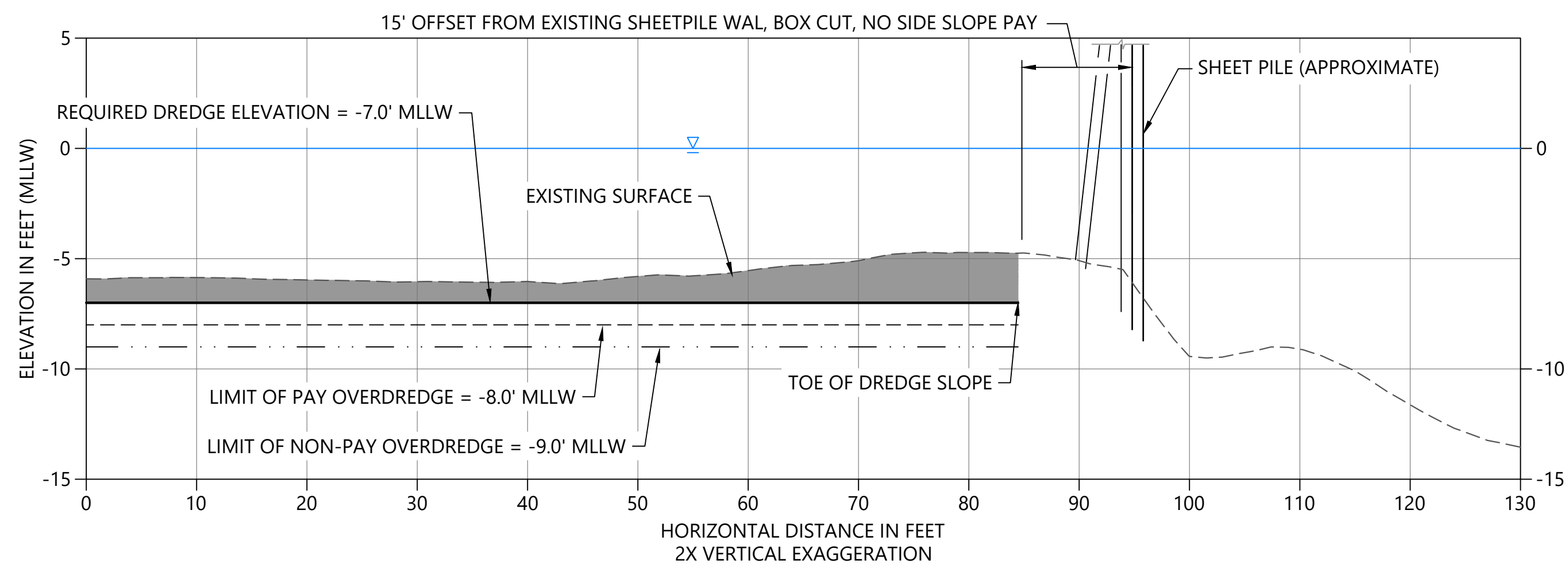
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PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

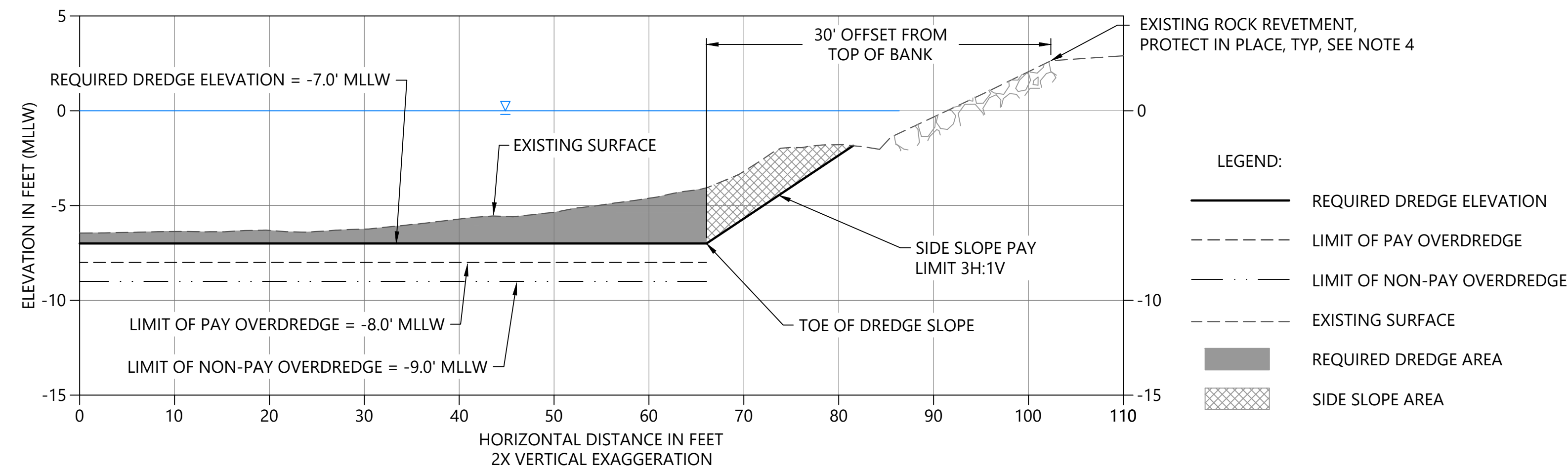
DREDGING PLAN RESIDENTIAL CHANNEL (2 OF 2)

C04

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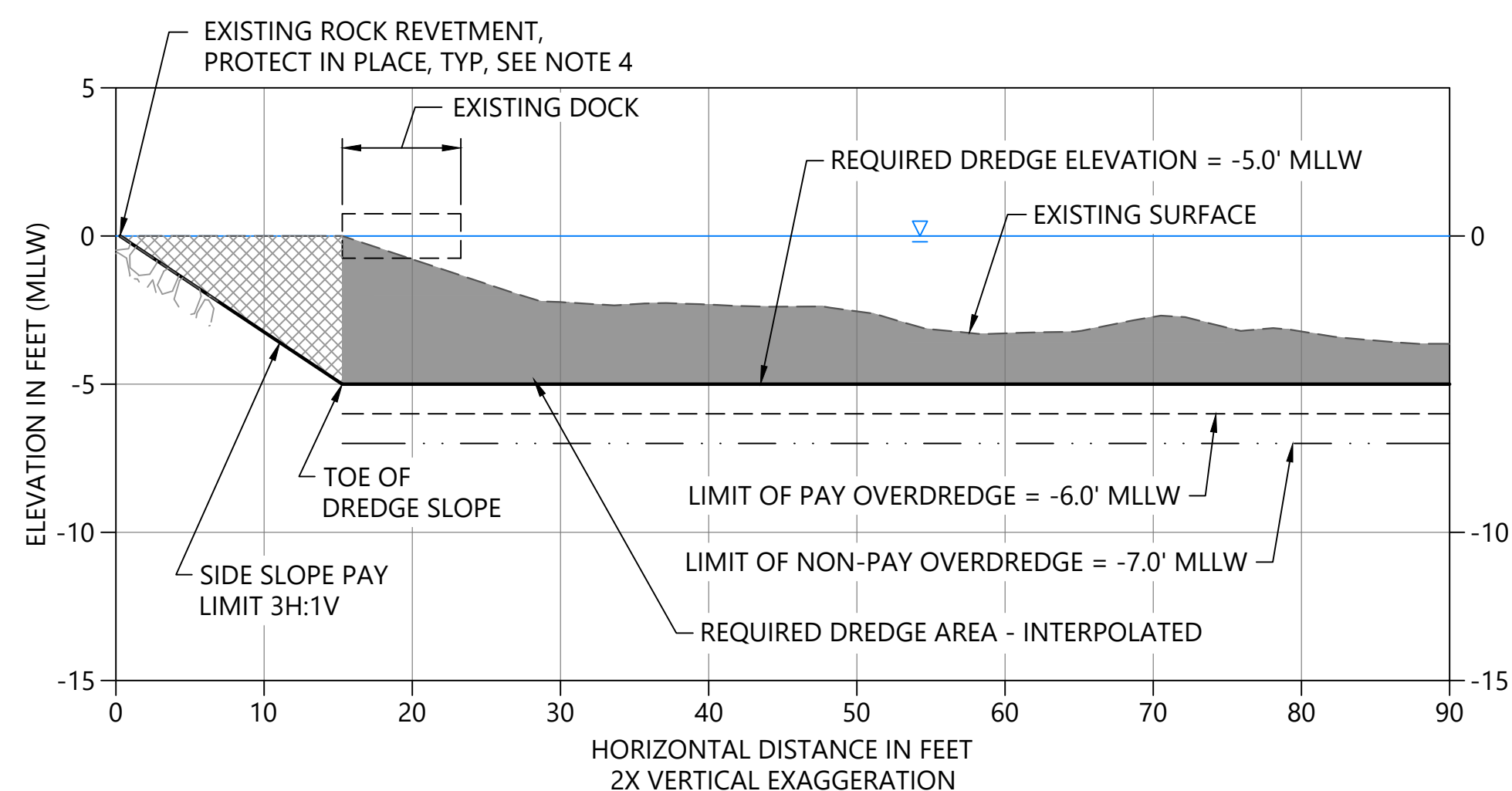


A TYPICAL SECTION AT BASIN 3 SHEET PILE WALL
 C01 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'

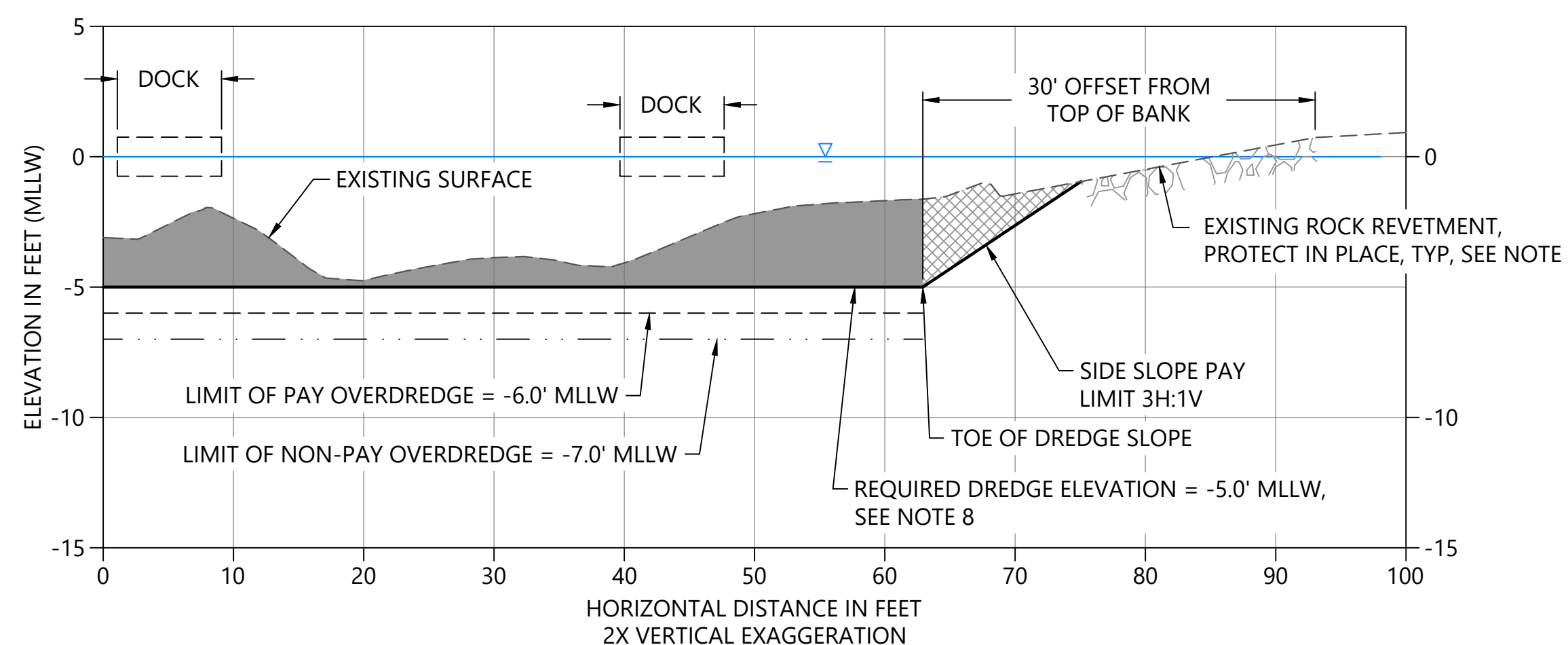


B TYPICAL SECTION AT BASIN 3 ROCK REVETMENT
 C01 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'

- LEGEND:
- REQUIRED DREDGE ELEVATION
 - - - LIMIT OF PAY OVERDREDGE
 - · - · - LIMIT OF NON-PAY OVERDREDGE
 - - - EXISTING SURFACE
 - REQUIRED DREDGE AREA
 - ▨ SIDE SLOPE AREA

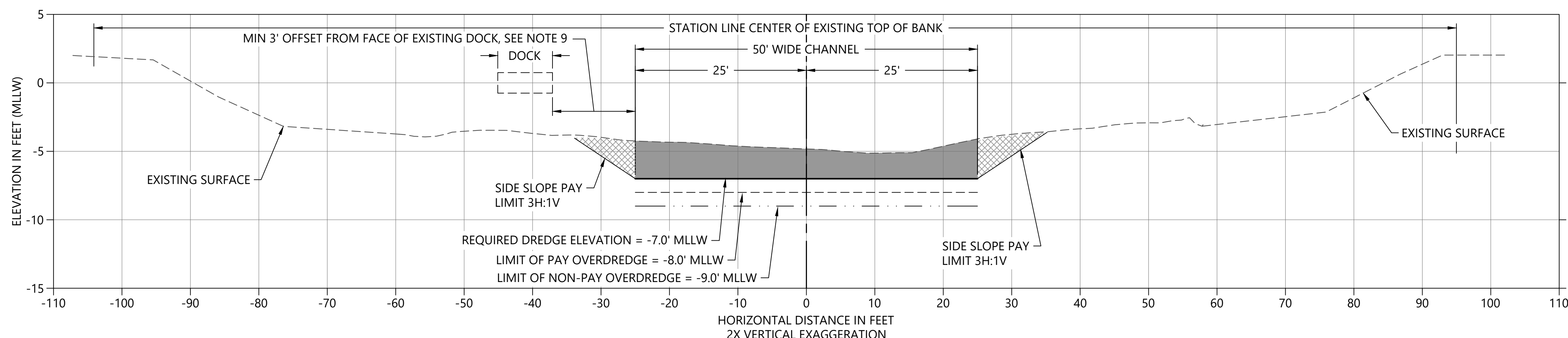


C TYPICAL SECTION AT LAUNCH RAMP FLOATING GUEST DOCK
 C02 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'



D TYPICAL SECTION AT LAUNCH RAMP FLOATING DOCKS
 C02 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'

- NOTES:
- EXISTING SURFACE BASED ON SURVEY PERFORMED BY ETRAC, INC. ON JULY 21, 2022.
 - NOT ALL EXISTING STRUCTURES ARE SHOWN FOR CLARITY.
 - SEDIMENT MAY SLOUGH INTO DREDGED AREAS FROM THE ADJACENT SIDE SLOPES. THIS SEDIMENT SHALL BE REMOVED FROM WITHIN THE DREDGE TEMPLATE AS NECESSARY TO ACHIEVE THE REQUIRED DREDGE ELEVATION. ALL MATERIAL THAT SLOUGHS FROM OUTSIDE THE DREDGE TEMPLATE BOUNDARY WILL BE PAID TO A LIMIT OF 3H:1V.
 - LOCATION AND EXTENTS OF EXISTING ROCK REVETMENT ARE APPROXIMATE AND INTENDED FOR GENERAL REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY THE LOCATION OF THE ROCK REVETMENT.
 - DIMENSIONS OF DOCKS VARY. CONTRACTOR MUST INSPECT ALL MARINA FACILITIES PRIOR TO MOBILIZATION TO DETERMINE EQUIPMENT ACCESS RESTRICTIONS.
 - DREDGING BELOW THE MAXIMUM ALLOWABLE OVERDREDGE ELEVATION IS DEFINED AND EXCESSIVE DREDGING AND IS PROHIBITED. THE CONTRACTOR WILL NOT BE PAID FOR EXCESSIVE DREDGING AND WILL BE RESPONSIBLE FOR ANY REGULATORY AGENCY FEES AND/OR FINES INCURRED AS A RESULT. ADDITIONALLY, IF OVERDREDGING RESULTS IN DAMAGE OR UNDERMINING TO EXISTING STRUCTURES, THE CONTRACTOR SHALL RECTIFY TO THE CITY'S SATISFACTION PRIOR TO CLOSE OF THE CONTRACT.
 - IN DREDGE AREA A, THE REQUIRED DREDGE ELEVATION MUST BE ACHIEVED IN ALL ENTRANCE AREAS, FAIRWAYS, AND BERTHS OF A DREDGE AREA FOR IT TO BE ACCEPTED AS COMPLETE. HOWEVER, SEDIMENT MAY REMAIN UNDER THE FLOATING DOCKS. THE CITY WILL COMPARE THE PRE- AND POST-DREDGE SURVEYS TO ENSURE THAT DREDGED SEDIMENT FROM THESE AREA WAS REMOVED FROM THE SITE.
 - DREDGE AREA B CONCRETE LAUNCH RAMP LOCATION AND ALIGNMENT NOT CONFIRMED. CONTRACTOR TO IDENTIFY DEPTHS AND EXTENTS PRIOR TO DREDGING. DREDGING MUST NOT DAMAGE EXISTING RAMP.
 - DREDGE AREA C DREDGE FOOTPRINT INCLUDES A GENERAL CHANNEL WIDTH OF 50 FEET, EXCEPT WHERE INDICATED AS A 40 FOOT OFFSET FROM TOP OF BANK. ADDITIONALLY, THE TOE OF DREDGE SLOPE MUST NEVER BE CUT WITHIN 3 FEET OF AN EXISTING FLOATING DOCK OR OTHER MARINE STRUCTURE.



E TYPICAL SECTION AT RESIDENTIAL CHANNEL
 C03 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 5'

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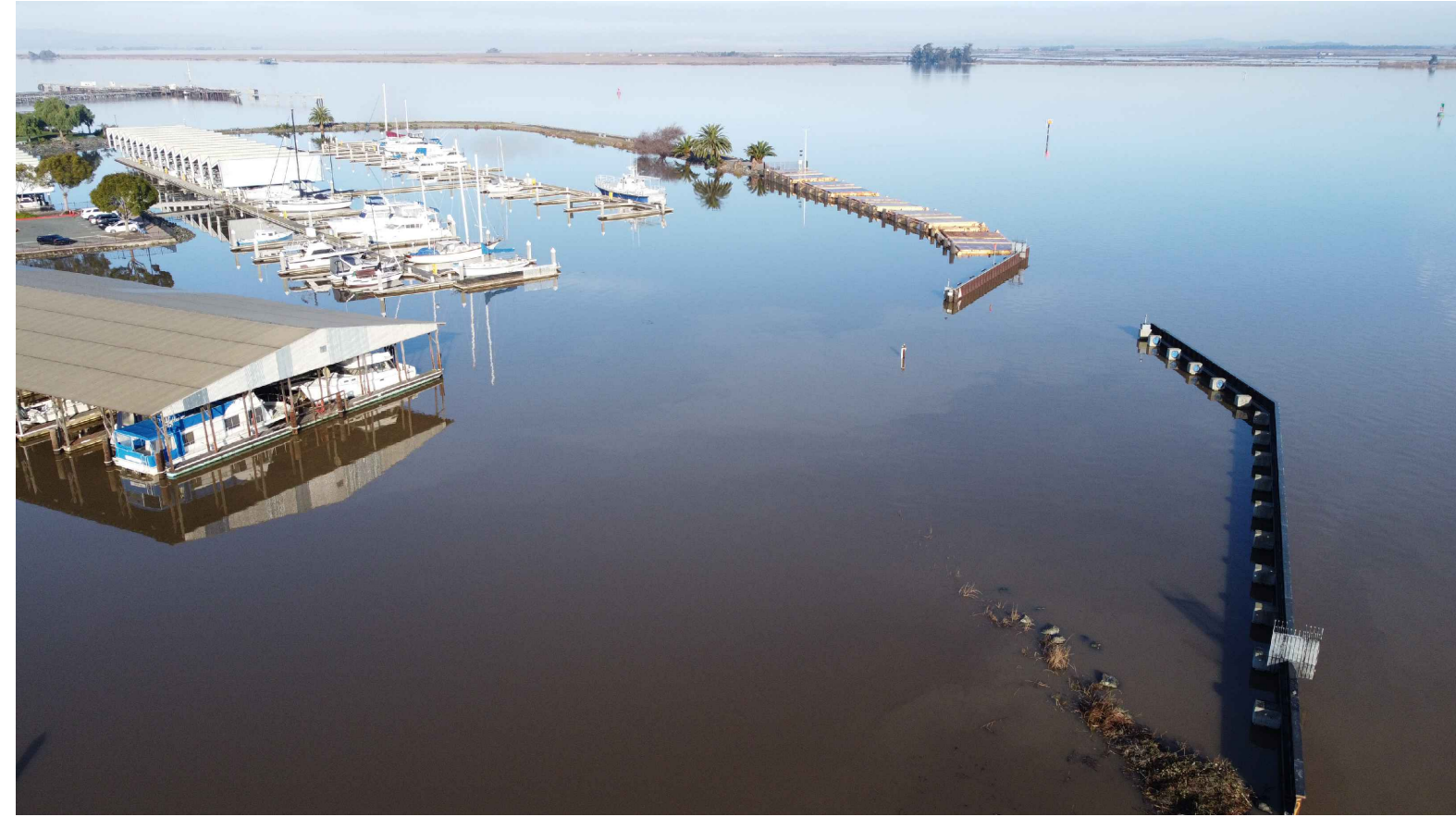
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 DRAWN BY: C. YARD/J. BIGSBY
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 APPROVED BY: _____
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PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

TYPICAL CROSS SECTIONS

C05

SHEET # 6 OF 7



PHOTOGRAPH 1
BASIN 3 ENTRANCE
(DREDGE AREA A)



PHOTOGRAPH 2
BASIN 3 SHEET PILE WALL
(DREDGE AREA A)



PHOTOGRAPH 3
BASIN 3 DOCK COVERS
(DREDGE AREA A)

NOTES:

1. THE PHOTOGRAPHS ON THIS PAGE ARE INTENDED TO SHOW VARIOUS SITE CONDITIONS AND STRUCTURES, HOWEVER THEY DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PERFORM A SITE INVESTIGATION AND ASSESSMENT OF EXISTING CONDITIONS AFFECTING THE DREDGING WORK PRIOR TO SUBMITTING A BID.
2. CONTRACTOR TO VERIFY CLEARANCE UNDER DOCK COVERS FOR EQUIPMENT ACCESS PRIOR TO SUBMITTING A BID AND PROVIDE AN APPROACH FOR REMOVAL OF SEDIMENT BELOW THE DOCK COVERS.



PHOTOGRAPH 4
LAUNCH AREA FLOATING LAUNCH DOCKS
(DREDGE AREA B)



PHOTOGRAPH 5
RESIDENTIAL CHANNEL
(DREDGE AREA C)



PHOTOGRAPH 6
RESIDENTIAL CHANNEL GAZEBO
(DREDGE AREA C)

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CITY OF PITTSBURG



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: J. GNUSTI
 DRAWN BY: C. YARD/J. BIGSBY
 CHECKED BY: _____
 APPROVED BY: _____
 SCALE: AS NOTED
 DATE: DECEMBER 2021

PITTSBURG MARINA BASIN 3, LAUNCH RAMP, AND RESIDENTIAL CHANNEL MAINTENANCE DREDGING

SITE PHOTOGRAPHS

C06

SHEET # **7** OF **7**