

Monthly Report No. 036

March 29, 2023 – May 2, 2024

KAPALAMA CONTAINER TERMINAL WHARF AND DREDGING

Job HC 10498

Honolulu Harbor, Oahu, Hawaii

Prepared for:



State of Hawaii
Department of Transportation
Harbors Division

Prepared by:



Harbors Project No. H.C. 10498

MONTHLY REPORT NO. 036

Period of March 29 – May 2, 2024
Kapalama Container Terminal Wharf and Dredging
Honolulu Harbor, Oahu, Job HC 10498
State of Hawaii, Department of Transportation, Harbors Division
Contract No. 69245

A. PROJECT SUMMARY

Project:	Kapalama Container Terminal Wharf and Dredging
Project Number	HC 10498
Location	Honolulu Harbor, Oahu
Owner	State of Hawaii Department of Transportation; Harbors Division
Design Consultant	Moffatt and Nichol
General Contractor	Kiewit Infrastructure West Co.
Construction Manager	Yogi Kwong Engineers, LLC
Notice to Proceed Date	January 4, 2021
Contract Completion Date	April 4, 2024 (To Be Amended) July 31, 2025 (Pending New Contract Amendment)

B. CURRENT PROJECT SCHEDULE – ALL DATES SUBJECT TO CHANGE WITHOUT NOTICE (See next page)

MAJOR ACTIVITY:	COMPLETION DATES AS OF KIWC MARCH 2024 SCHEDULE:					DD-MON-YYYY: ACTUAL COMPLETION DATE (Month Year) = Anticipated Completion Date** [NOTE: <u>ALL</u> ANTICIPATED DATES ARE SUBJECT TO CHANGE WITHOUT NOTICE]
	PIER 41	PIER 42	SNUG HARBOR	PIER 43	HC 10502 (Ph 1)	
HDD Submarine Water Line - Completed	N/A	N/A	N/A	21-July-2023	N/A	
<i>Mass Grading</i>	13-May-2021	06-July-2021	N/A	8-Aug-2023	N/A	
Landside Demolition - Completed	13-April-2021	27-April-2021	N/A	16-Feb-2022	N/A	
In-Water Demolition - Completed	29-Oct-2021	N/A	19-Nov-2021	N/A	N/A	
<i>Stone Columns (Pre-drill)</i>	06-Oct-2021	5-Aug-2021	6-July-2022	31-Aug-2023	N/A	
<i>Stone Columns (Installation)</i>	14-Oct-2021	12-Aug-2021	6-July-2022	01-Sept-2023	N/A	
<i>Combi-Wall (Pre-Drill)</i>	29-Oct-2021	17-Dec-2021	29-Sept 2022	22-Sept-2023	N/A	
<i>Combi-Wall (Installation)</i>	28-Sept-2022	28-April-2023	4-Nov-2022	01-Dec-2023	N/A	
<i>Surcharge Period</i>	28-April-2023	N/A	<i>(January 2025)</i>	N/A	N/A	
<i>Tie Rods</i>	25-April-2023	16-April-2024	<i>(November 2024)</i>	<i>(August 2024)</i>	N/A	
Capping Beam	<i>(May 2024)</i>	<i>(December 2024)</i>	<i>(July 2024)</i>	<i>(August 2024)</i>	N/A	
<i>Tie Rod Deadman</i>	22-Dec-2022	N/A	N/A	N/A	N/A	
Land Side Crane Rail Beam	N/A	<i>(January 2025)</i>	8-Aug-2023	<i>(May 2024)</i>	N/A	
<i>Water & Electrical Utilities</i>	<i>(June 2024)</i>	<i>(November 2024)</i>	<i>(March 2025)</i>	<i>(September 2024)</i>	N/A	
<i>Drainage Structures</i>	<i>(August 2024)</i>	<i>(March 2025)</i>	<i>(February 2025)</i>	<i>(July 2024)</i>	N/A	
Water Side Crane Rail Beam	N/A	<i>(January 2025)</i>	<i>(September 2024)</i>	<i>(December 2024)</i>	N/A	
<i>Concrete Tie-Beam</i>	N/A	<i>(January 2025)</i>	<i>(November 2024)</i>	<i>(February 2025)</i>	N/A	
Crane Rails Installed	N/A	<i>(March 2025)</i>	<i>(April 2025)</i>	<i>(June 2025)</i>	N/A	
Crane Substation Switchgear & Transformer Delivered to KCT	N/A	29-Sept-2023 [Transformer] 5-Jan-2024 [Switchgear]	N/A	N/A	N/A	
Crane Substation	N/A	<i>(May 2025)</i>	N/A	N/A	N/A	
Dredging [at bulkhead wall]	31-Jan-2024	28-Mar-2024	<i>(December 2024)</i>	<i>(December 2024)</i>	N/A	
Dredging [offshore]	9-Jan-2024	<i>(May 2024)</i>	<i>(January 2025)</i>	<i>(September 2024)</i>	N/A	
Fenders Installed	<i>(December 2024)</i>	<i>(June 2025)</i>	<i>(May 2025)</i>	<i>(July 2025)</i>	N/A	
PCC Pavement	<i>(November 2024)</i>	<i>(March 2025)</i>	<i>(April 2025)</i>	<i>(May 2025)</i>	<i>(June 2024)</i>	
<i>Cathodic Protection</i>	<i>(October 2024)</i>	<i>(May 2025)</i>	<i>(May 2025)</i>	<i>(June 2025)</i>	N/A	
<i>Pavement Striping</i>	<i>(December 2024)</i>	<i>(June 2025)</i>	<i>(May 2025)</i>	<i>(July 2025)</i>	<i>(August 2024)</i>	
TWIC Fencing	N/A	N/A	N/A	<i>(July 2025)</i>	<i>(August 2024)</i>	
PROJECT COMPLETION	<i>(JULY 31, 2025)</i>					

C. ACTIVITIES**Work observed at Pier 41:**

- KIWC and HRSPI continued installation of TD-3 P7T Sta 7+00 to 8+00.
- KIWC continued landside dredging (Sta. 21+00 to 22+00 and 15+50 to 16+50).
- KIWC continued stripping the P5T formwork of TD-3.
- KIWC dredged along the capping beam (Sta 22+00).
- KIWC dredged along the capping beam (Sta 28+50 to 28+00).
- KIWC finished formwork removal of TD-3 P6T (Sta 6+00 to 7+00).
- KIWC installed the grates for TD-3 P7T (Sta 7+00 to 8+00).
- KIWC installed the stabilization layer for TD-3 Sta. 8+00 to 9+00.
- KIWC poured TD-3 P7B (Sta 7+55 to 8+00).
- KIWC continued drilling for 36" CIDH shafts 32, 36, 40, and 44 in area 4.
- KIWC DB Seattle continued in water dredging.

Work Observed at Pier 42:

- CIDH drilling (56-A4-36) and in land water dredging.
- KIWC backfilled along the cap beam P10.
- KIWC excavated on the landside of the capping beam (Sta 14+50 to 18+63).
- KIWC continued landside dredging on the outside of the combi wall (Sta. 13+77 to 12+98).
- KIWC prepped the grade for CIDH installation near P9 of the cap beam.
- On-land water dredging and placed #3B fine gravel landside of P10 of the CWCB.

Work Observed at Pier 43:

- Backfilled, compacted and tested the compacted fill on P4 of the LSCRB
- HRSPI continued to rework the steel cages for WL 1&2.
- HRSPI crew continued to fabricate the rebar cage for P20 of the CWCB.
- HRSPI crew on site to install the rebar cage for the bollards in P16 and PEI installed the PVC electrical conduits.
- KIWC and HRSPI crews installed the rebar cage for P17.
- KIWC and HRSPI installed rebar for capping beam pour #19 (Sta 4+68 to Sta 5+62).
- KIWC backfilled over tie rods (Sta 4+20 to 3+00).
- KIWC burned tie rod and rebar penetrations and welded "U" rebar in the combi wall.
- KIWC grouted CSL tubes in 48" CIDH shafts (15-A1-48A to 05-A1-48A).
- KIWC grouted CSL tubes in 48" CIDH shafts (15-A1-48A to 05-A1-48A).
- KIWC installed formwork for capping beam pour #16, 17, and 18 (Sta 05+62 to 07+03).
- KIWC poured capping beam pour #15, 16, 17.
- WL 1&2 – Poured concrete for the water manhole covers.

Work Observed at Snug Harbor:

- Placed dredged material at Snug Harbor and tested unit weight.
- MPE tested surcharge lift 17.

Work Observed at PCCP:

- KIWC poured and green sawcut the north blockout by the PASHA maintenance building.

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D. AERIAL PHOTOGRAPH



November 2023



December 2023

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E. **PROJECT PHOTOGRAPHS**
(See attached Sheets)

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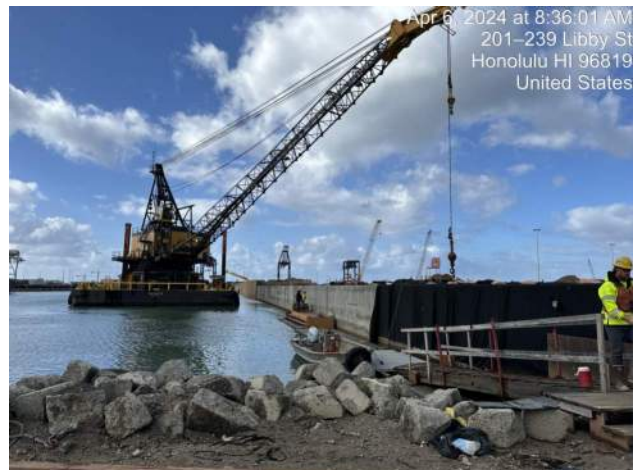
MPE testing delivered concrete for slump and air content.



Pier 43: KIWC welder welded the #8 "U" rebar between the sheet and double king pile interlocks from P20 to P21 of the CWCB



HRSPI installing 3" dobies to achieve 3" cover for the reinforcement of TD-3 P7B



KIWC started installation of the arch fenders on P41



KIWC performing landside dredging to remove KIWC's previously placed fill on the waterfront of P43



KIWC fully removed the material placed for stone column installation on Pier 43

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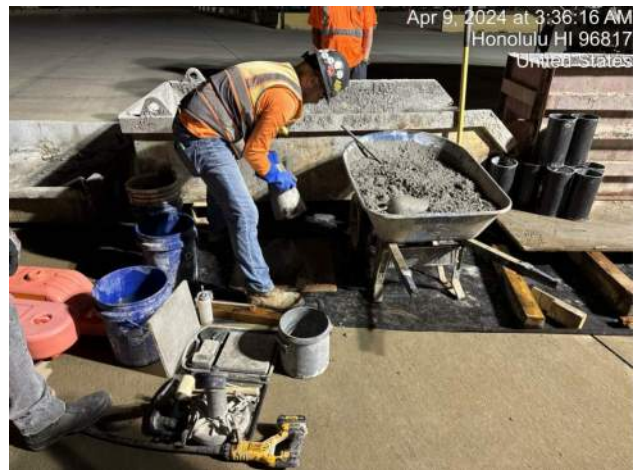
Pier 43: KIWC welder continued to weld the waler braces between P20 and P21 of the CWCB



KIWC stripping formwork from around TD-3.



KIWC bridge and marine fastening fenders using 3/4 drivers



MPE performing concrete testing for truck 1 of the cap beam pour



KIWC moving 36" CIDH rebar cages to the staging area on pier 42.



Pier 43: HRSPI crew was on site for install the rebar cage for the shore power vault in P16 of the CWCB

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Pier 43: HRSPI crew on site to install the rebar cage for P17 of the CWCB



Pier 43: MPE soil technician to test the density of the compacted fill between P4 and P5 of the LSCRB



KIWC dredging along the pier 41 capping beam.



View of the top of capping beam pour #14 on pier 42.



KIWC depositing dredged material onto pier 41.



KIWC adjusting supports for the shore power vault in capping beam pour #16.

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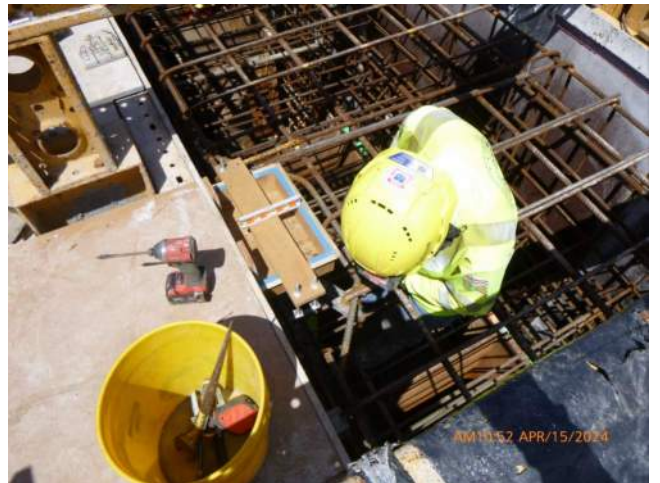
KIWC replacing the backfill along the landside of the capping beam.



View of shore power vault in capping beam pour #16.



Pier 43: WL 1 and 2 - HRSPI crew continued to rework the steel cages for the water manhole covers



KIWC installing formwork for capping beam pour #16.

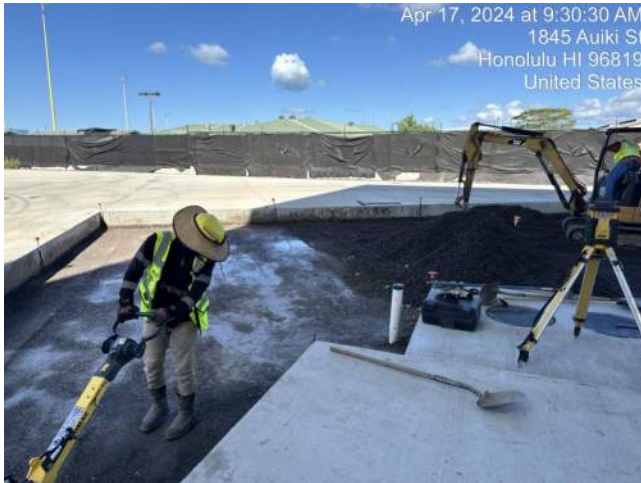


KIWC finished landside dredging for the shift



KIWC scarified and compacted the utility trench area of the north maintenance building blackout

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KIWC performing moisture conditioning and compaction for lift 1 of the base course of the west blockout of the PASHA maintenance building



KIWC placing dredging panels over the waterside of the pier 42 capping beam.



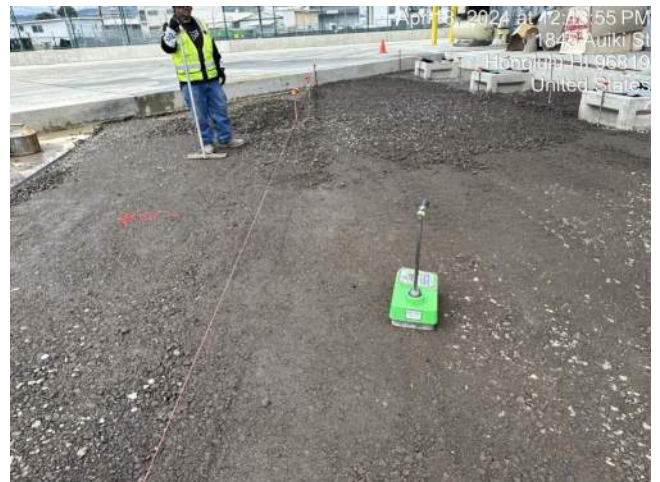
KIWC moving formwork from capping beam pour #15 to pour #17.



KIWC setting tie rods on pier 43.



KIWC continued landside dredging on Pier 41



MPE performing compaction testing for the east/central area of the west blockout of the PASHA maintenance building area

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KIWC pouring capping beam pour #16.



KIWC finishing the surface of capping beam pour #16.



KIWC started the landside dredging on Pier 42 using the CAT 349F excavator



KIWC continued landside dredging on Pier 42 using the CAT 349F excavator



View of the material holding cell on Pier 42



KIWC continued landside dredging using the CAT 349F excavator on Pier 42

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View of the north breakout area of the maintenance building area



Pier 42: Location of CIDH drilling for # 59-A4-36 shaft on P1 of the CWCB



KIWC dredging along pier 41.



View of the water vault in capping beam pour #17 on pier 43.



Pier 42: KIW civil crew continued in land water dredging on the ocean side of P4 and P5 of the CWCB



KIWC finishing drilling for installation of dowels for the north breakout at the PASHA maintenance building

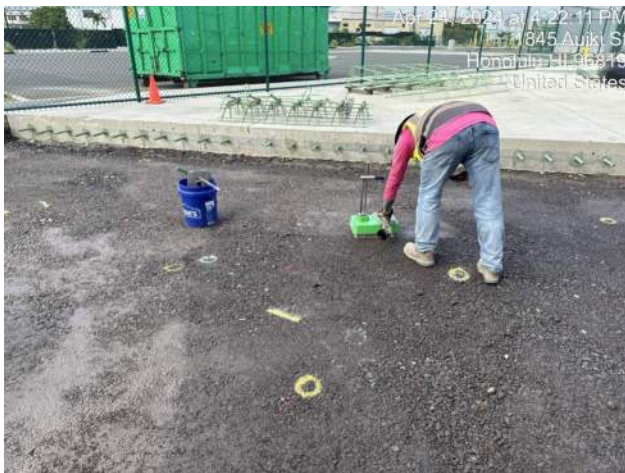
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Pier 42: KIWC foundation crew set up the CIDH cage into CIDH #56-A4-36



KIWC rolling lift 16 of the snug harbor surcharge.



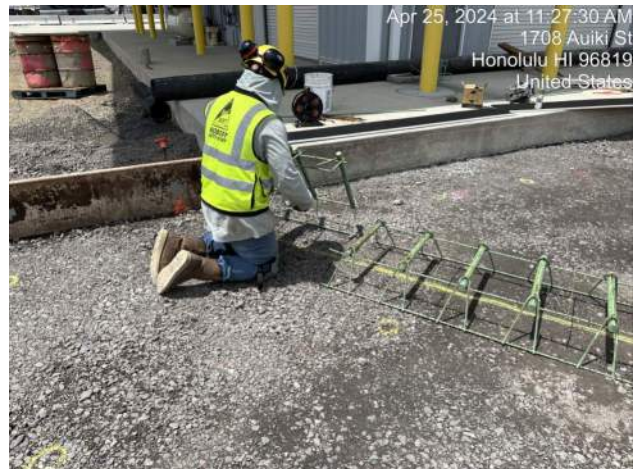
MPE performing compaction testing for the east end of the north PASHA maintenance breakout



KIWC installing 3b stabilization layer beneath the tie rods.



Pier 42: The grades changed to tan to white coralline sandy silt and gravel at 30 to 45' bgs



KIWC applying touchup coating for the epoxy coated dowel baskets and reinforcement for the north PASHA maintenance building breakout area

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View of installed tie rods on pier 43.



KH observed KIWC installing the formwork and rebar mats for the PASHA maintenance building north breakout



KIWC placed third layer of geogrid for TD-3 stabilization layer from Sta 8+00 to 9+00



Pier 43: KIWC carpentry crew continued to set the forms for the EJ of P17/P18 of the CWCB



Pier 42: KIWC civil crew continued to conduct in-land water dredging on P6 of the CWCB



Pier 43: Two CAT CS 56 vibratory rollers were used to roll the fill placement by Method Compaction on P4 of the LSCR B

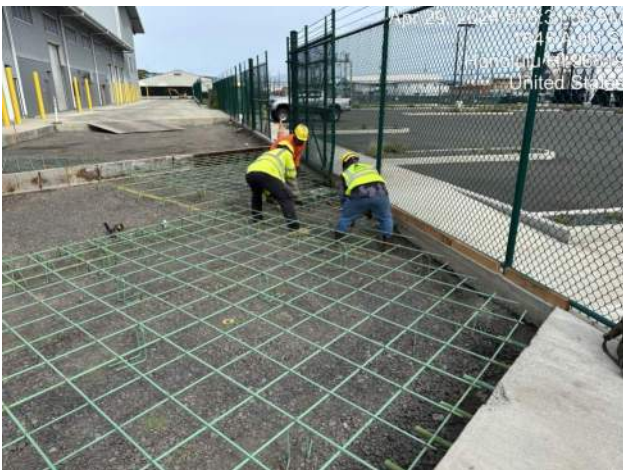
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Pier 43: KIWC backfilling over tie rods.



KIWC installing formwork for the capping beam pour #17 bulkhead.



KIWC adjusting the reinforcement mats and dowels for the north blackout near the PASHA maintenance building



KIWC pouring concrete for PCCP blackout at the maintenance bldg.



Pier 42: Drill spoils consisted of light brown coral sand and gravel from CIDH #40-A4-36 at 52' bgs



KIWC finished chipping the excess concrete on the waterside of TD-3 Sta. 7+94 to 8+00