

# Monthly Report No. 039

June 28, 2024 – August 1, 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

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Honolulu Harbor, Oahu, Job HC 10498

State of Hawaii, Department of Transportation, Harbors Division

Contract No. 69245

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## 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	<del>April 4, 2024</del> (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 May 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	(January 2025)	N/A	N/A	
<i>Tie Rods</i>	25-April-2023	16-April-2024	(November 2024)	(October 2024)	N/A	
<b>Capping Beam</b>	<b>(May 2024)</b>	<b>(June 2024)</b>	<b>(July 2024)</b>	<b>(October 2024)</b>	N/A	
<i>Tie Rod Deadman</i>	22-Dec-2022	N/A	N/A	N/A	N/A	
<b>Land Side Crane Rail Beam</b>	N/A	<b>(February 2025)</b>	8-Aug-2023	<b>(July 2024)</b>	N/A	
<i>Water &amp; Electrical Utilities</i>	(June 2024)	(April 2025)	(March 2025)	(November 2024)	N/A	
<i>Drainage Structures</i>	(July 2024)	(March 2025)	(February 2025)	(August 2024)	N/A	
<b>Water Side Crane Rail Beam</b>	N/A	<b>(April 2025)</b>	<b>(October 2024)</b>	<b>(February 2025)</b>	N/A	
<i>Concrete Tie-Beam</i>	N/A	(March 2025)	<b>(January 2025)</b>	(March 2025)	N/A	
<b>Crane Rails Installed</b>	N/A	<b>(March 2025)</b>	<b>(May 2025)</b>	<b>(June 2025)</b>	N/A	
<b>Crane Substation Switchgear &amp; Transformer Delivered to KCT</b>	N/A	29-Sept-2023 [Transformer] 5-Jan-2024 [Switchgear]	N/A	N/A	N/A	
<b>Crane Substation</b>	N/A	<b>(May 2025)</b>	N/A	N/A	N/A	
<b>Dredging [at bulkhead wall]</b>	31-Jan-2024	28-Mar-2024	<b>(February 2025)</b>	<b>(February 2025)</b>	N/A	
<b>Dredging [offshore]</b>	9-Jan-2024	<b>(July 2024)</b>	<b>(January 2025)</b>	<b>(November 2024)</b>	N/A	
<b>Fenders Installed</b>	<b>(August 2024)</b>	<b>(June 2025)</b>	<b>(June 2025)</b>	<b>(July 2025)</b>	N/A	
<b>PCC Pavement</b>	<b>(November 2024)</b>	<b>(May 2025)</b>	<b>(May 2025)</b>	<b>(June 2025)</b>	<b>(June 2024)</b>	
<i>Cathodic Protection</i>	(December 2024)	(June 2025)	(May 2025)	(July 2025)	N/A	
<i>Pavement Striping</i>	(December 2024)	(June 2025)	(May 2025)	(July 2025)	(August 2024)	
<b>TWIC Fencing</b>	N/A	N/A	N/A	<b>(July 2025)</b>	<b>(August 2024)</b>	
<b>PROJECT COMPLETION</b>	<b>(JULY 31, 2025)</b>					

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### C. ACTIVITIES

#### **Work observed at Pier 40F:**

- KIWC carpentry crew fabricated the keyway form for the storm drain headwall.

#### **Work observed at Pier 41:**

- HRSPI crew continued to install the rebar cage for P8 of the trench drain.
- HRSPI crew installed rebar cage for the walls of the drain inlet of TD 3.
- KIWC carpentry crew placed concrete mixed for P8 and the drain inlet of TD3.
- The carpentry crew installed the water stop and the outer wall forms of P8 of TD3.
- KIWC installed formwork for the TD-3 and drain inlet Sta (9+00).

#### **Work Observed at Pier 42:**

- AFT CSL tested CIDH shafts 57-A4-36, 37-A4-36, 27-A4-36 and 25-A4-36.
- KIWC civil crew installed the precast manhole into SD-5B.
- KIWC continued prep for mud mat installation for the WSCR B Sta. 17+50 to 18+50.
- KIWC foundation crew cored CIDH #26, 34, and 45.
- KIWC poured 21 CIDH shaft in Area 3 and 4.
- KIWC started grouting CSL tubes for the WSCR B shafts.

#### **Work Observed at Pier 43:**

- HRSPI installed rebar for LSCR B pour #7 (Sta 1+17 to 2+06).
- KIWC and HRSPI installed tie rods and rebar for LSCR B pour #7 (Sta 1+17 to 2+06).
- KIWC set formwork for the LSCR B construction joint at Sta 1+17.
- KIWC started installation of formwork for the LSCR B P7.

#### **Work Observed at Snug Harbor:**

- KG finished grouting locations B-101 and B-102 on the Snug Harbor surcharge.

#### **Work Observed at PCCP:**

- ALCAL began to apply waterproofing to the delivered SDMH.



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## D. AERIAL PHOTOGRAPH



November 2023



April 2024

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



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KIWC pouring P22 of the cap beam on Pier 43



KIWC prepping SDM for spall repair.



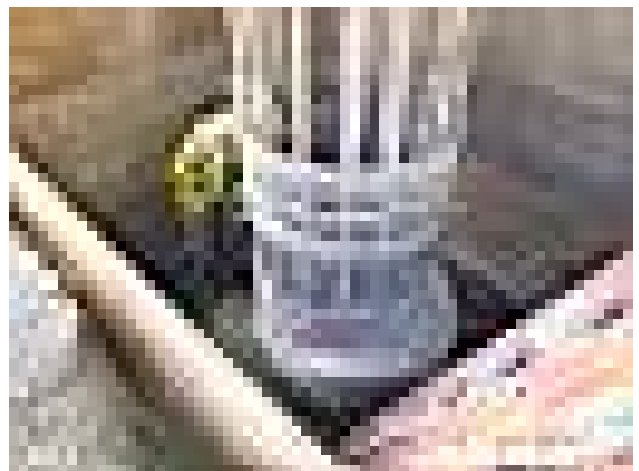
Snug Harbor: KGI on site to mobilize to boring 102 of the surcharge fill



View of trench box around CIDH shaft 05-A1-48A.



KIWC chipping out the CJ in the W-2 siphon RCJ.



KIWC measuring the concrete cover on the chipped down shaft 05-A1-48A.

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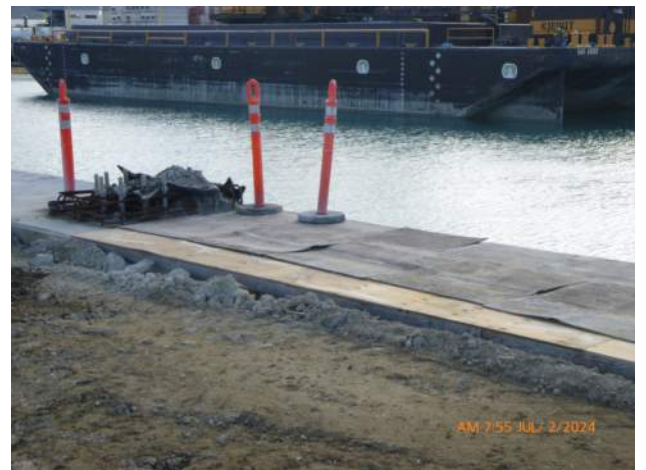
Pier 41: KIWC civil crew removed and cleaned the top of the capping beam from STA 19+00 to STA 21+00 of the dredged spoils



KIWC progress chipping CIDH shaft 05-A1-48 on Pier 43



MPE prepping to test truck 1 of the mud mat concrete



KIWC placing rubber liner over the top of the capping beam.



KIWC building up the grade on the landside of the capping beam.



AFT performing CSL testing in 36" CIDH shafts on pier 42.



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View of CIDH cages for the 36" CIDH shafts staged on Pier 42



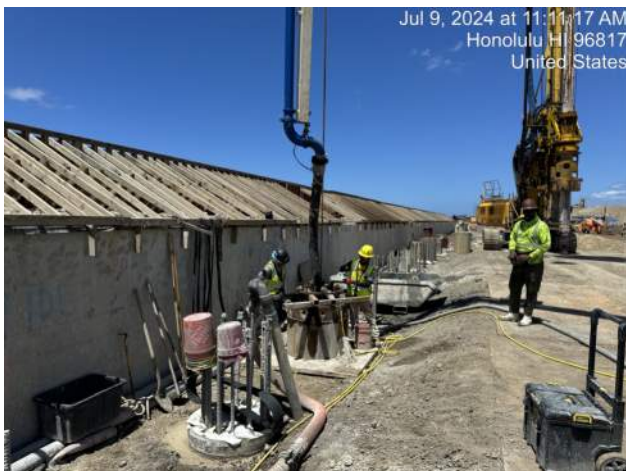
View of TD-3 operation



Pier 41: KIWC mason crew continued to patch the honeycombs inside the inner wall of the P7 of the trench drain



View of applied waterproofing on manhole.



KIWC started pouring shaft 29-A4-36



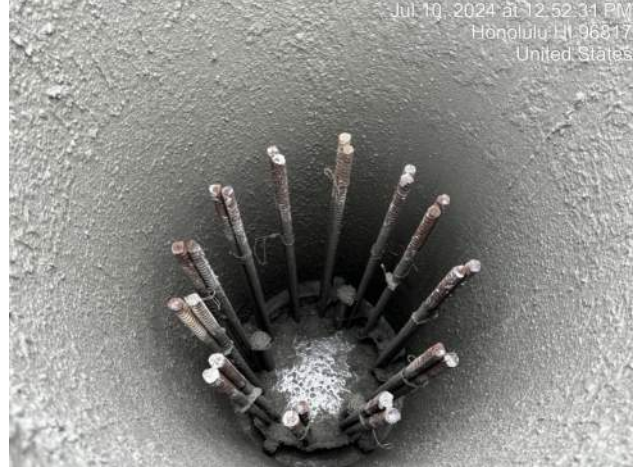
Pier 41: KIWC mason crew continued to concrete dry finish the interior wall of P7 of the trench drain



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KIWC setting formwork for the capping beam  
P25 mud mat



View of shaft 51-A4-36 after the first 3m  
section of casing was removed



Pier 41: KIWC carpentry crew continued to  
conduct rebar corrections of P8 of the  
trench drain



MPE performing compaction testing for lift 1  
of the WL-F backfill



Pier 41: MPE tested the concrete parameters  
of the first load of concrete truck mixed -  
Temp: 86 deg F, slump: 5.25", air content:  
3.3%



Pier 40F: KIWC carpentry crew fabricated the  
keyway for the storm drain headwall



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KIWC dry finishing the interior of the pier 41 trench drain.



KIWC pouring the mud mat around the end of the continuous king pile wall.



KIWC installing plastic for LSCRB P7 and P8



Pier 43: HRSPI crew on site installing the rebar cage for P7/P8 of the LSCRB



Pier 42: The foundation crew drilled and probed for obstruction at the junction structure drain outfall



Pier 43: HRSPI crew continued installing the "U" rebar mat and wall cage for P7/P8 of the LSCRB



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Pier 41: KIWC mason crew continued to patch the honeycombs inside the inner wall of the P7 of the TD - 3



HRSPI setting rebar for LSCRB pour #7.



View of KIWC progress performing shaft top prep of the WSCRB on Pier 42



Pier 41: HRSPI crew continued installing rebars for the walls of P8 and drain inlet of the TD 3



HRSPI setting rebar for LSCRB pour #7.



MPE testing concrete for CIDH shaft installation



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KIWC wire wheeling the surface of the SDMH's staged on the PCCP.



HRSPI installing rebar for LSCR B Pour #7.



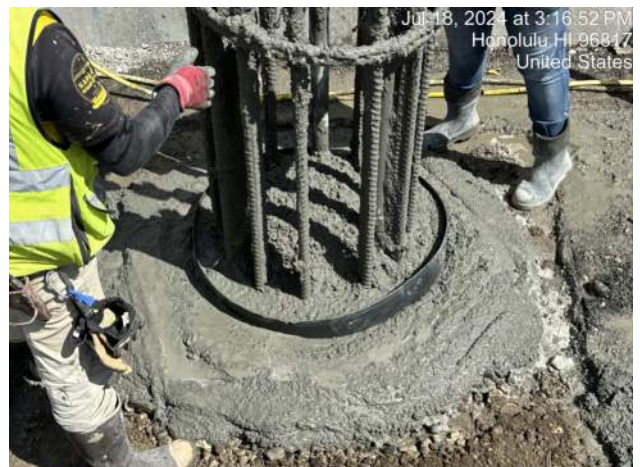
KIWC continued drilling locations 3-A4-36, 6-A4-36, and 9-A4-36



Pier 43: KIWC welder welded the "U" rebar between the king and sheet pile interlocks of P24 of the CWCB



MPE performing concrete testing for the CIDH shafts



View of shaft 9-A4-36 after pulling the remaining casing



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KIWC dry finishing the waterside of capping beam pour #20.



HRSPI installing rebar cage for LSCRB pour #7.



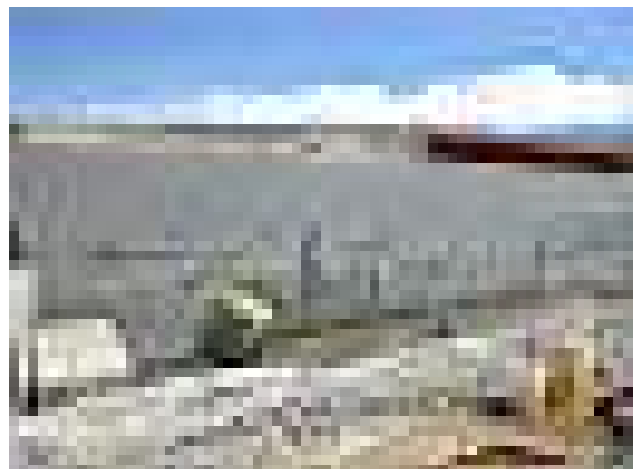
MPE testing the concrete for truck 3 of the CIDH shaft installation due to trucks 1 and 2 timing out



HRSPI installing rebar for LSCRB pour #7 on pier 43.



KIWC prepping the TD-3 manhole for formwork installation on pier 41.



KIWC dry finishing the waterside of capping beam pour #20.



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Pier 41: KIWC carpentry crew continued to install the forms for the drain inlet and P8 of the trench drain



KIWC performing shaft top prep for the WSCRB Sta. 17+00 to 18+50



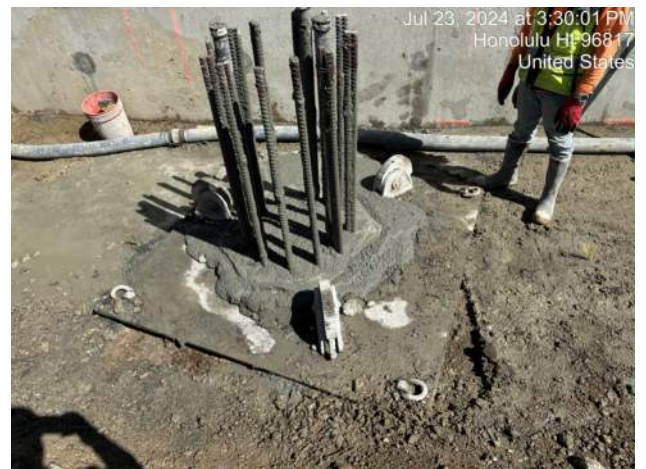
MPE testing truck 1 of the CIDH shaft pour (no shafts ended up being poured this shift)



Pier 41: KIWC carpentry crew prepared P8 of the trench drain 3 and the drain inlet for structural observations



Pier 43: Vibration monitoring instruments placed over the CWCB of P16



View of shaft 38-A3-36 after pulling all casing



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Pier 41: KIWC carpentry crew continued to install the grates for the trench drain 3



KIWC prepping to remove the temporary sheet piles on the waterside of the cap beam



View of completed shaft 16-A4-36



Pier 41: KIWC carpentry crew used hand blower to remove concrete stones between the vertical rebars



Pier 41: HRSPI crew cut the rebars for the 36-inch RCP block out of the drain inlet of Trench Drain 3



KIWC backfilling the junction structure SOE on Pier 42



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KIWC drilling CIDH shaft 51-A4-36 on pier 42.



KIWC prepping to excavate and grade the area for installation of P25 of the cap beam on Pier 43



Pier 41: KIWC civil crew (Sanu's) continued to use the Mikasa MVH 508 vibratory steel plate to compact the fill placement



View of concrete in CIDH shaft 37-A4-36 post pour.



KIWC excavating around shaft 5-A1-48



View of the P7 location for the LSCRB