

# NOTICE ON REMOVAL OF NO. 5 BREAKWATER (Section 1), INCLUDING UNWANTED MATERIALS, AT KOBE PORT

## Contact Information

Ordering party: Kobe Port Office of Kinki Regional Development Bureau, Ministry of Land, Infrastructure, Transport and Tourism  
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Inquiry on work information: Management Office of Navigational Safety Information on Kobe Port Marine Construction Work

The following breakwater removal work and the transportation and landing of removed materials, as well as the transportation of casting material, will be conducted on the No. 5 breakwater at Kobe Port. The contractors and the Japan Coast Guard will keep the securement of safety in mind during the work period. All vessels passing nearby are requested to give a wide berth and navigate with caution.

## 1. Work period (scheduled): From November 11, 2019 through March 25, 2020 (reserved days included)

○ Working time: Sunrise to sunset

Type of work	2019									2020									Remarks
	Oct.			Nov.			Dec.			Jan.			Feb.			Mar.			
	10	20	31	10	20	30	10	20	31	10	20	31	10	20	29	10	20	31	
Preparatory work	[Bar chart showing work from Oct 10 to Nov 30]																		
Structure removal work (Mooring dolphin)										[Bar chart showing work from Nov 10 to Feb 29]									
Structure removal work (No. 5 breakwater)										[Bar chart showing work from Nov 10 to Mar 31]									
Test work (Removal of former No. 5 breakwater)										[Dashed bar chart showing work from Jan 10 to Feb 29]									
Safety management	[Bar chart showing work from Oct 10 to Mar 31]																		
Sweeping										[Bar chart showing work from Mar 10 to Mar 31]									

### Work Area (Structure Removal Work)

Base point: Kobe No. 6 Breakwater Lighthouse

Point	Reference point	Azimuth	Distance
A	From base point	313° 40'	2,716 m
B	From A	81° 53'	798 m
C	From B	171° 53'	500 m
D	From C	261° 53'	621 m
E	From D	299° 43'	224 m

### Sand disposal site in Rokko Island south area

Base point: Kobe No. 6 Breakwater Lighthouse

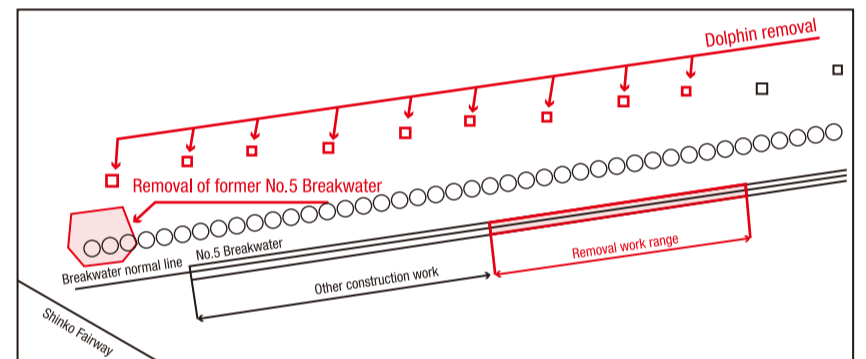
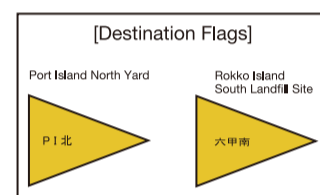
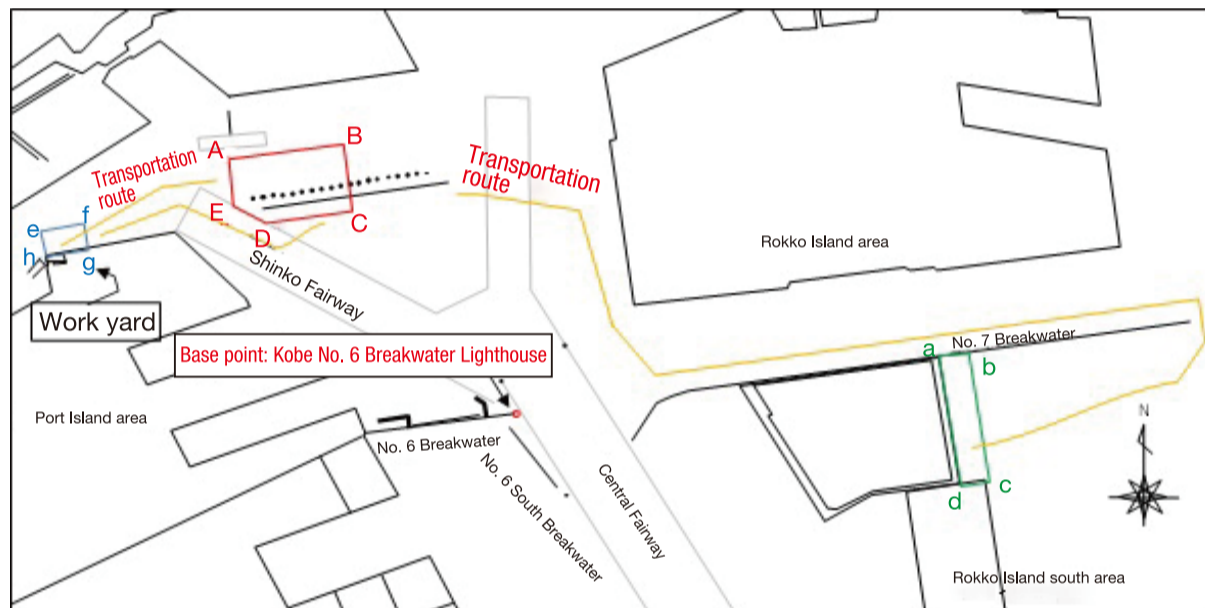
Point	Reference point	Azimuth	Distance
a	From base point	81° 56'	2,933 m
b	From a	81° 46'	200 m
c	From b	171° 49'	927 m
d	From c	261° 49'	200 m

### Work Yard

Base point: Kobe No. 6 Breakwater Lighthouse

Point	Reference point	Azimuth	Distance
e	From base point	292° 30'	3,527 m
f	From e	79° 12'	300 m
g	From f	169° 12'	200 m
h	From g	259° 12'	300 m

## 2. Work Area

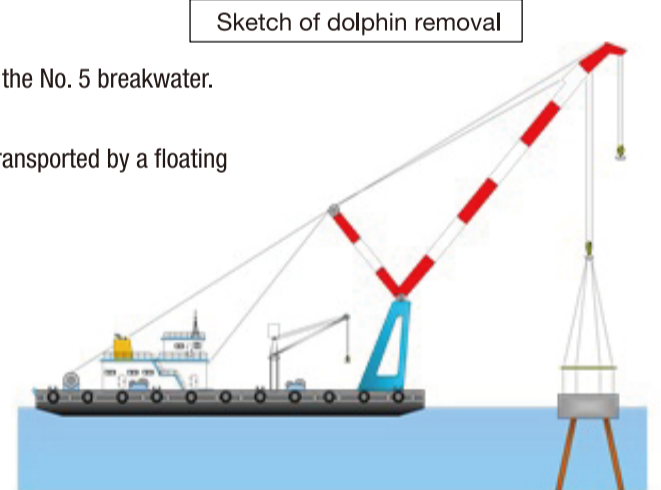


## 3. Work Method

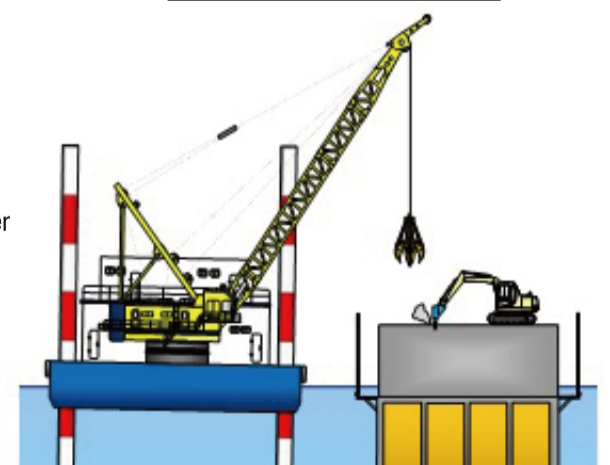
- 1) A floating crane with necessary equipment will be used to remove the mooring dolphin and caissons from the removal area of the No. 5 breakwater.
- 2) The western part of the former No. 5 breakwater will be partially removed from the No. 5 breakwater removal area.
- 3) The removed material will be transported by a floating crane and landed onto the work yard, and the casting material will be transported by a floating crane or sand barge to the sand disposal site in the south area of Rokko Island.

## 4. Safety Measures

- 1) Each workboat will display a lamplight and object specified by the Prevention of Collision at Sea Act.
- 2) Each workboat will hoist the house flags of the contractors and a destination flag to indicate the destination of the workboat.
- 3) One to two watch boats will be stationed around the work area to draw the attention of vessels passing nearby and for the maintenance of marine traffic safety.
- 4) The international signal flag (flag A) will be hoisted during underwater work.
- 5) Each workboat berthing at night will turn on lights specified by the Prevention of Collision at Sea Act, along with proper lighting and a marker buoy at the anchoring position.
- 6) For more details of the work, scan the QR code on the lower right-hand side.
- 7) A temporary marker buoy will be allocated until the extraction of the steel pipe piles after upper concrete removal from the mooring dolphin and prestressed concrete (PC) cell removal from the west side in order to ensure the safety of vessels passing nearby. The body of the marker buoy will be yellow, and the light will be at least 0.35 m high above the sea surface and flash yellow once at 4-second intervals, with a light reaching distance of 2.7 km.
- 8) A number of temporary marker lights will be allocated on the north side of the No. 5 breakwater if the top of the No. 5 breakwater goes underwater at high tide after the upper concrete has been removed. The distance between each light will be approximately 32 m. Each mark light will be at least 2 m high above the sea surface and flash yellow once at 3-second intervals (in synchronization with the No. 4 Breakwater Central Lighthouse) at 7.8 candelas, with a light reaching distance of 4.0 km.



Sketch of upper concrete removal



House flags

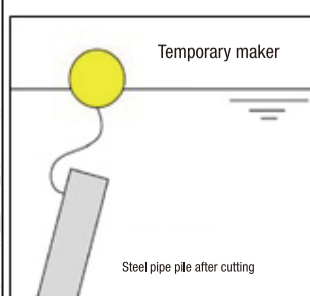
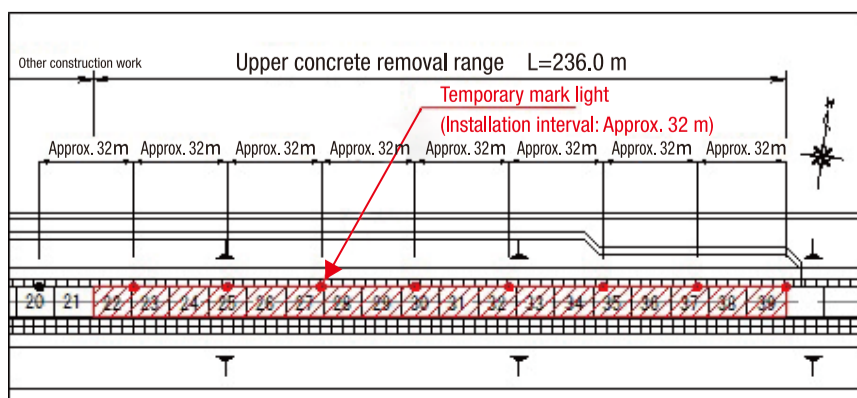


Penta-Ocean Construction Co., Ltd.

Aomi Construction Co., Ltd.



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Sketch of allocated temporary marker lights and light buoys