

# NOTICE ON KOBE PORT NO. 5 BREAKWATER REMOVAL

Contractor : Toa and Fudo Tetra Specified Construction Joint Venture

Inquiry : Management Office of Navigational Safety Information on Kobe Port Marine Construction Work  
 【Website: <http://www.kobe-kaibouken.or.jp>】  
 Ordering party : Kobe Port Office of Kinki Regional Development Bureau, Ministry of Land, Infrastructure, Transport and Tourism



Inquiry QR Code  
 Management Office of Navigational Safety Information on Kobe Port Marine Construction Work

The Kobe Port No. 5 Breakwater structure removal will be conducted along with concrete-debris-mixed earth and sand removal and sediment removal to restore the breakwater top. The removed waste will be transported by barge to section 6 of Kobe-ku, Hanshin Port, where sediment, rubble, and armor stone deposition will be conducted. The safety measures specified below will be taken during the work period, and all vessels passing nearby are requested to give a wide berth and navigate with caution.

## 1. Work Period and Time

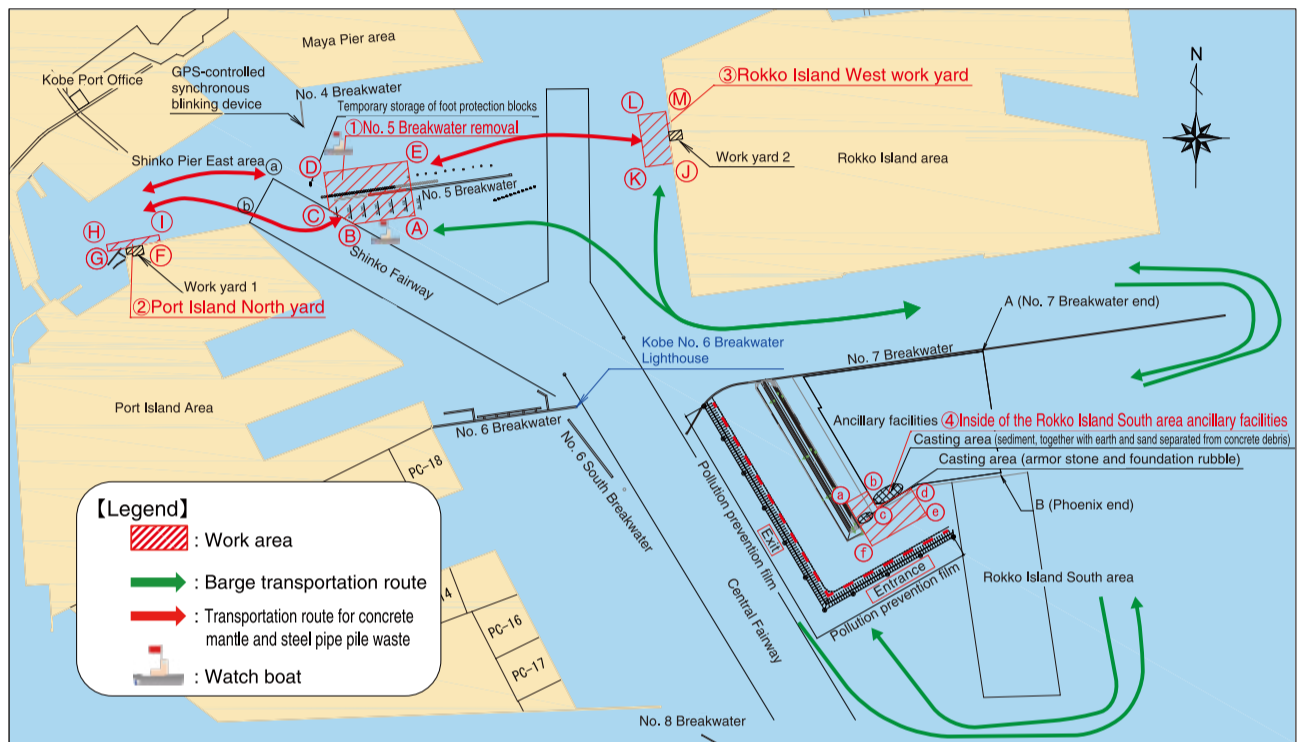
Work period: From November 6, 2020  
 To October 21, 2021  
 Daytime work: From sunrise to sunset

| Type of work  | 2020 |      | 2021 |      |      |      |     |      |      |      |       |      |
|---|------|------|------|------|------|------|-----|------|------|------|-------|------|
|   | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| No. 5 Breakwater removal  |      |      |      |      |      |      |     |      |      |      |       |      |
| Armor stone removal   |      |      |      |      |      |      |     |      |      |      |       |      |
| Foundation rubble removal   |      |      |      |      |      |      |     |      |      |      |       |      |
| Caisson removal   |      |      |      |      |      |      |     |      |      |      |       |      |
| Former No. 5 Breakwater removal                                   |      |      |      |      |      |      |     |      |      |      |       |      |
| Concrete-debris-mixed earth and sand removal                      |      |      |      |      |      |      |     |      |      |      |       |      |
| Miscellaneous work  |      |      |      |      |      |      |     |      |      |      |       |      |
| Sediment removal  |      |      |      |      |      |      |     |      |      |      |       |      |
| Restoration of breakwater top                                     |      |      |      |      |      |      |     |      |      |      |       |      |
| Pollution prevention film installation/management/removal         |      |      |      |      |      |      |     |      |      |      |       |      |
| Safety control  |      |      |      |      |      |      |     |      |      |      |       |      |
| Rokko Island South ancillary facilities                           |      |      |      |      |      |      |     |      |      |      |       |      |
| Pollution prevention film management/Entrance and exit management |      |      |      |      |      |      |     |      |      |      |       |      |
| Safety control  |      |      |      |      |      |      |     |      |      |      |       |      |

## 2. Work Area

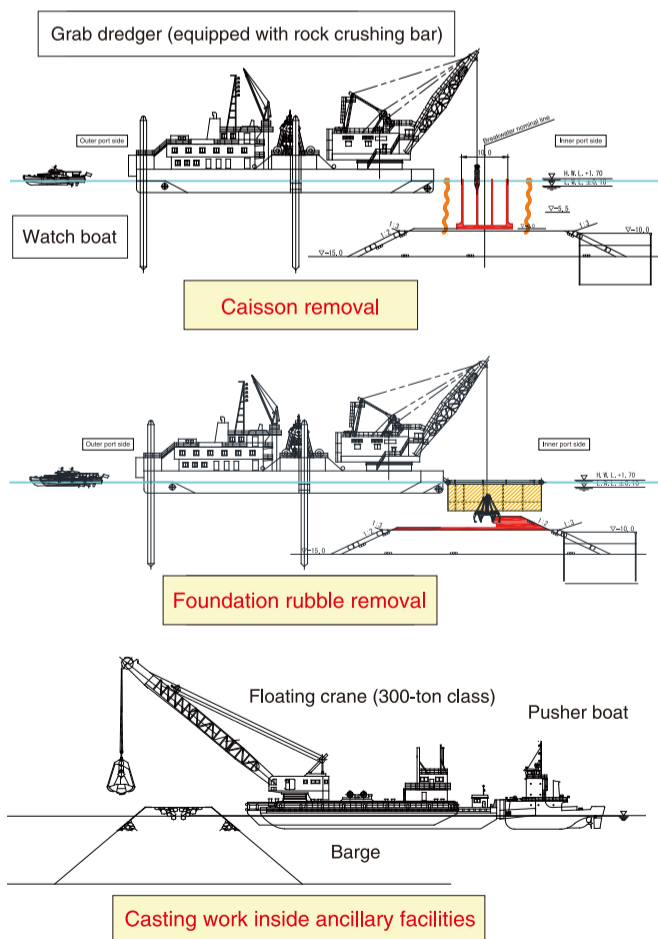
| Basepoint                  | Kobe Port No. 6 Breakwater Lighthouse<br>34-40-14.2N 135-14-43.1E |                             |          |
|----------------------------|---|-----------------------------|----------|
| Area                       | Point   | Azimuth                     | Distance |
| ① No. 5 Breakwater removal | Point A   | From basepoint 320° 22' 50" | 1,800 m  |
|                            | Point B   | From point A 261° 53' 30"   | 440 m    |
|                            | Point C   | From point B 299° 44' 10"   | 200 m    |
|                            | Point D   | From point C 352° 53' 20"   | 280 m    |
|                            | Point E   | From point D 81° 56' 50"    | 600 m    |
| ② Port Island North yard   | Point F   | From basepoint 291° 46' 20" | 3,200 m  |
|                            | Point G   | From point F 259° 11' 40"   | 300 m    |
|                            | Point H   | From point G 349° 11' 40"   | 50 m     |
|                            | Point I   | From point H 79° 11' 40"    | 300 m    |
| ③ Rokko West work yard     | Point J   | From basepoint 21° 19' 40"  | 1,900 m  |
|                            | Point K   | From point J 261° 58' 10"   | 200 m    |
|                            | Point L   | From point K 351° 58' 10"   | 380 m    |
|                            | Point M   | From point L 81° 58' 10"    | 200 m    |
| ④ Rokko South casting area | Point a   | From basepoint 109° 36' 40" | 2,050 m  |
|                            | Point b   | From point a 59° 37' 00"    | 170 m    |
|                            | Point c   | From point b 149° 37' 00"   | 140 m    |
|                            | Point d   | From point c 59° 37' 00"    | 280 m    |
|                            | Point e   | From point d 149° 7' 40"    | 220 m    |
|                            | Point f   | From point e 239° 37' 00"   | 450 m    |

The work area is the sea area enclosed by the lines connecting each of the above points in alphabetical order.

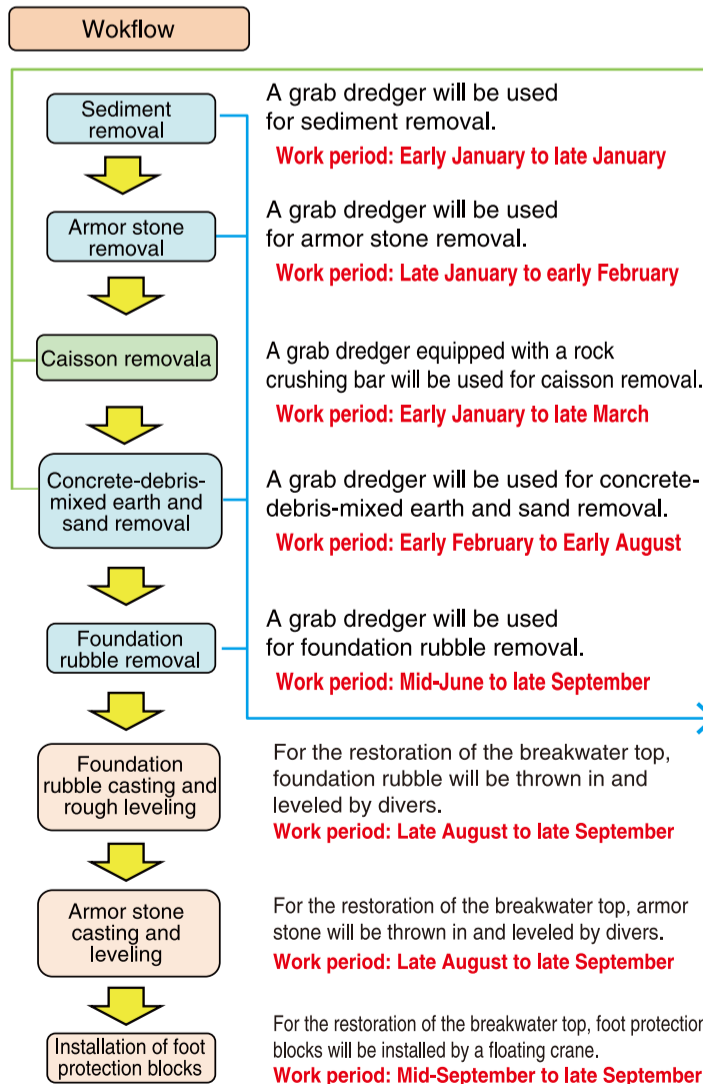


## 3. Work Outline

\*Illustrations show typical types of work.

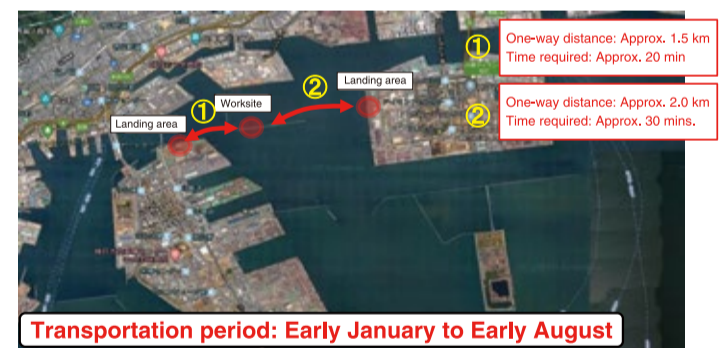


### 【Kobe Port No. 5 Breakwater Removal】



### 【Transport to the work yard on the north side of Port Island and the work yard on the west side of Rokko Island】

Concrete blocks and steel pipe piles will be transported to the work yard on the north side of Port Island and landed by a floating crane. The concrete-mixed earth and sand will be transported to the work yard on the west side of Rokko Island and landed by a crane vessel.



### 【Casting to ancillary facilities at Section 6 of Kobe-ku, Hanshin Port】

Armor stone, foundation rubble, sediment, and earth and sand separated from concrete debris will be transported by barge and cast using a floating crane.



## 4. Safety Measures

- Each workboat will display a light and object specified by the Act for Preventing Collisions at Sea along with the flag representing the Joint Venture ①.
- During diving work, the barge will hoist a signal plate of International Flag A ② under the Act for Preventing Collisions at Sea.
- Two watch boats will be allocated, as shown in the above figure, to provide information and alerts to vessels passing nearby during the work. Each watch boat will hoist a warning flag ③.
- Each workboat in operation in section 6 of Kobe-ku, Hanshin Port, will follow the rules of the Management Office of Navigational Safety Information on Kobe Port Marine Construction Work and hoist a destination flag ④. Scan the QR code on the upper right-hand side for details.



① Workboat flag



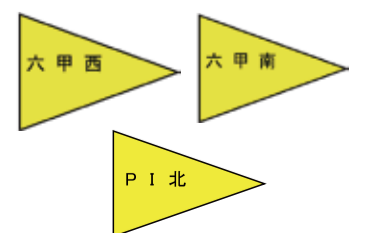
② International Flag A



警戒中

WARNING

③ Watch boat flag



④ Destination flag