

## PART 4: SITE INFORMATION

Core clause 11.2(16) states

"Site Information is information which

- describes the Site and its surroundings and
- is in the documents which the Contract Data states it is in."

In Contract Data, reference has been made to this Part 4 of the contract for the location of Site Information.

### 1. Description of the Site and its surroundings

#### 1.1. National Key Point

Island View is an important hub in the country's petrochemical grid. Due to its sensitivity, the area is protected under the National Key Points Act 102 of 1980. Adherence to this act is enforced by the Cutler Management Board, which represents the various tenants in the area, and the landlord, TNPA.

#### 1.2. Access and Access Permits

Access to Island View requires access permits which shall be obtained from Cutler Management Board. All costs in providing constructional personnel with ID access cards or permits shall be borne by the *Contractor*.

Access to the site will be via any of the established Security checkpoints while complying with Island View traffic management bylaws. The *Contractor* shall take traffic congestion (especially along Bayhead Road) into account when determining this transportation requirements.

Pedestrian movement within Island View is not permitted unless authorised by the Port Manager and on routes designated by the Port Manager in conjunction with Port Security and the Cutler Management Board. Movement of construction staff within the site shall be by vehicle.

#### 1.3. Maintaining Tenant's Access

The site is used by a host of tenants whose varied interests shall be protected where possible by the *Contractor* during the course of the contract. The *Contractor* shall not prevent the safe passage of traffic to and from and within the site at all times. This shall entail the provision of flagman, protective barriers, lanterns, signs, etc. for protection, direction and control of traffic.

Tenant's access to and from the many leased sites within Island View shall be maintained at all times .No lights are to be fixed anywhere within the Port area without written approval from the *Project Manager*. The speed limit within Island View is preserved at all times.

#### **1.4. Occupations and Works Permits**

Works, where applicable, shall entail the obtaining of the occupations and Hot Works. Cold Works and CFI permits in advance. These shall be arranged by the *Contractor* from the relevant TNPA authorities, especially TNPA Fire Officers.

#### **1.5. Known Services**

Known services are included in the drawings provided .As there is some doubt about the accuracy and completeness of the drawings, the *Contractor* may well encounter services not shown on the drawings supplied. Due to the potentially high density of services, the uncertainty regarding the exact locations and the sensitivity of the products and the area in general, excavations shall be by hand only and with the use of blunted equipment. The First site meeting shall include a walk of the site where TNPA will point out known services and hazards that may not be shown or that may be shown inaccurately on the supplied plans.

The *Contractor* is required to liaise with the *Project Manager* and establish as accurately as possible, the location of various existing services situated within the Works area and record all such information on a suitable a suitable "marked –up" drawing for reference at all times.

#### **1.6. Drawings**

The available drawings as required by the *Contractor*. Where there are no existing layouts the *Contractor will* be required to develop layout.

- |                     |                    |
|---------------------|--------------------|
| ➤ DH65-B-35-Sheet 1 | ➤ DH65-B-3-Sheet 1 |
| ➤ DH65-B-35-Sheet 2 | ➤ DH65-B-3-Sheet 2 |
| ➤ DH65-B-35-Sheet 3 | ➤ DH65-B-3-Sheet 3 |
| ➤ DH65-B-35-Sheet 4 | ➤ DH65-B-3-Sheet 4 |
| ➤ DH65-B-35-Sheet 5 | ➤ DH65-B-3-Sheet 5 |
| ➤ DH65-B-35-Sheet 6 | ➤ DH65-B-3-Sheet 6 |
| ➤ DH65-B-35-Sheet 7 | ➤ DH65-B-3-Sheet 7 |
| ➤ DH65-B-35-Sheet 8 | ➤ DH65-B-3-Sheet 8 |
| ➤ DH65-B-35-Sheet 9 | ➤ DH65-B-3-Sheet 9 |

➤ DH65-B-35-Sheet 10

## 1.7. Working within an operating Port and under water

The *Contractor* must take note of all the requirements for operating in an operating harbour and carrying out underwater and diving operations as set out in the Scope of Works, Part C3 of this document.

The Berth is operational and vessels may be docked during the execution of the *Works*. The *Works* are to be conducted in such a way so as not to disrupt operations, and safe working distances from the operations are to be maintained at all times. The *Contractor* shall allow for working under these conditions.

## 1.8. Description of Berth 4

Island View Berth 4 is located in the Port of Durban within the Island View Precinct. The Berth is a chemical berth. The berth is classified as a zone 1 hazardous area. The structure comprises of two mooring dolphins on either side which was built prior to 1952. The dolphins were later conjoined with a 150 millimetre thick deck on pile concrete structure which was constructed in 1986.



**Figure 1: Aerial View of the Island View Berth 4 and surrounding areas**

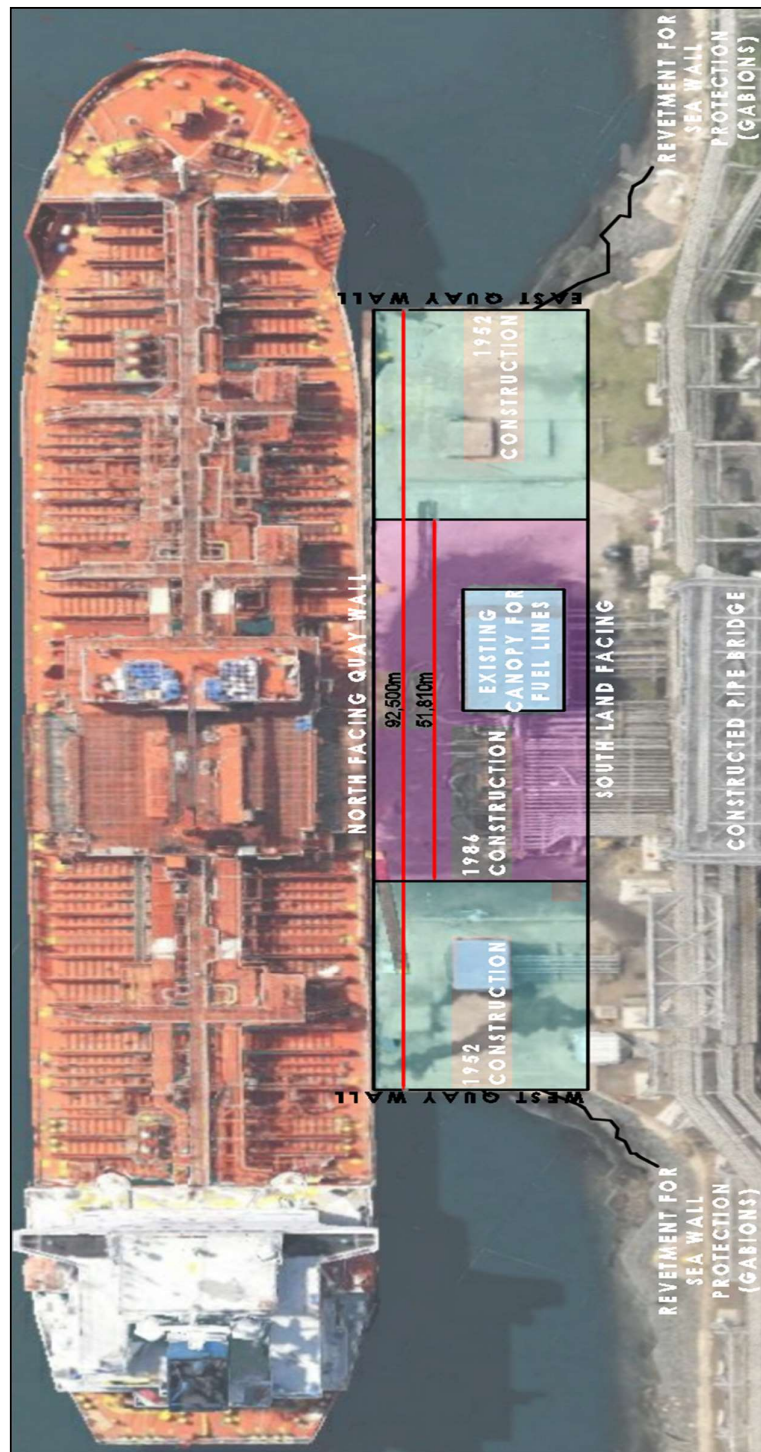


Figure 2: Aerial view showing old and new portions of the berth

## 1.9. Properties of Berth 4

Properties of the berth are seen in table 1 and table 2.

**Table 1: Design Properties of Berth 4.**

4	QUAY WALL							
	BOLLARD NUMBER S	QUAY TYPE	COPE LEVEL (m CD)	LENGTH (m)	DESIGN DEPTH-CD	MAXIMUM AVAILABLE DEPTH-CD	MAXIMUM UNDER KEEL CLEARANCE (UKC)	MAXIMUM PERMISSIBLE DRAFT (m)
	19-28	Concrete Deck on Concrete Piles	3.72	242	10.6	10.6	0.6	10

**Table 2: Properties of the Design Vessel at Berth 4**

DESIGN VESSEL			
DWT (Tons)	DRAFT (m)	LOA (m)	B (m)
30000	10.3	171	27.9

## 1.10. Site Conditions

Site conditions are as follows:

- Altitude: At sea level
- Ambient temperature: 15-25 °C
- Relative humidity: Frequently 100%
- Air Quality: heavily saline and industrial
- General wind velocities: Up to 60 km/h
- Storm wind velocities: Up to 180 km/h

The prospective *Contractor* shall attend the site inspection and acquaint themselves with the nature of the *Works*, the condition under which the work is to be performed, and the means of access to site, Height restrictions, any limitations or other authorities and in general which may influence or affect the *Contractor*.

The *Contractor* shall be deemed to have allowed in their tender for any additional cost to be involved due to the foregoing.

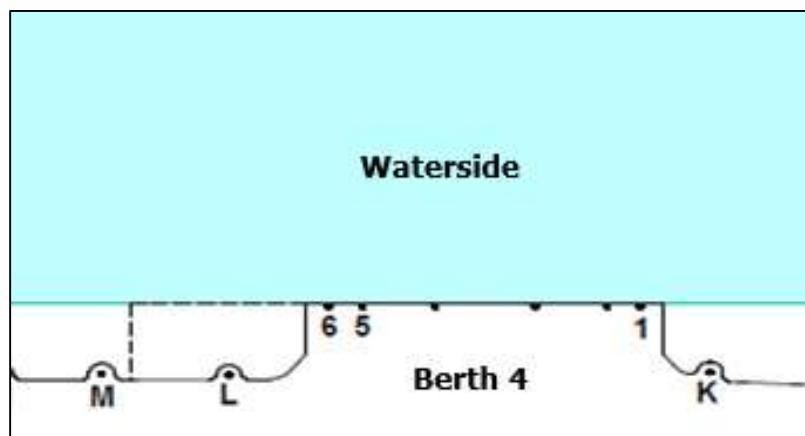


### 1.10.1. Site Parameter

The parameter boundaries are mapped out in Figure 2. Waterside Parameter is the entire berth pocket, from the landside to the edge of the berth pocket. The landside parameter between bollard numbers "L" and "K".



**Figure 3: Dashed Red line indicating the Site Boundary**



**Figure 4: Showing Bollard Numbering on Berth 4**

### **1.11. Site Camp**

An area will be made available for the establishment of a construction site camp. This will be pointed out at the site inspection. The contractor may establish his offices, storage area and batch plant within the site camp. Site camp security shall be the responsibility of the *Contractor*.

The construction site camp shall be clearly sign posted as such and to be compliant with the relevant prevailing safety regulations until the *Contractor* has de-established the camp and this has been approved by the *Project Manager*.