





REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE


**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**  

**DIRECTORATE GENERAL OF SEA COMMUNICATION (DGSC)**

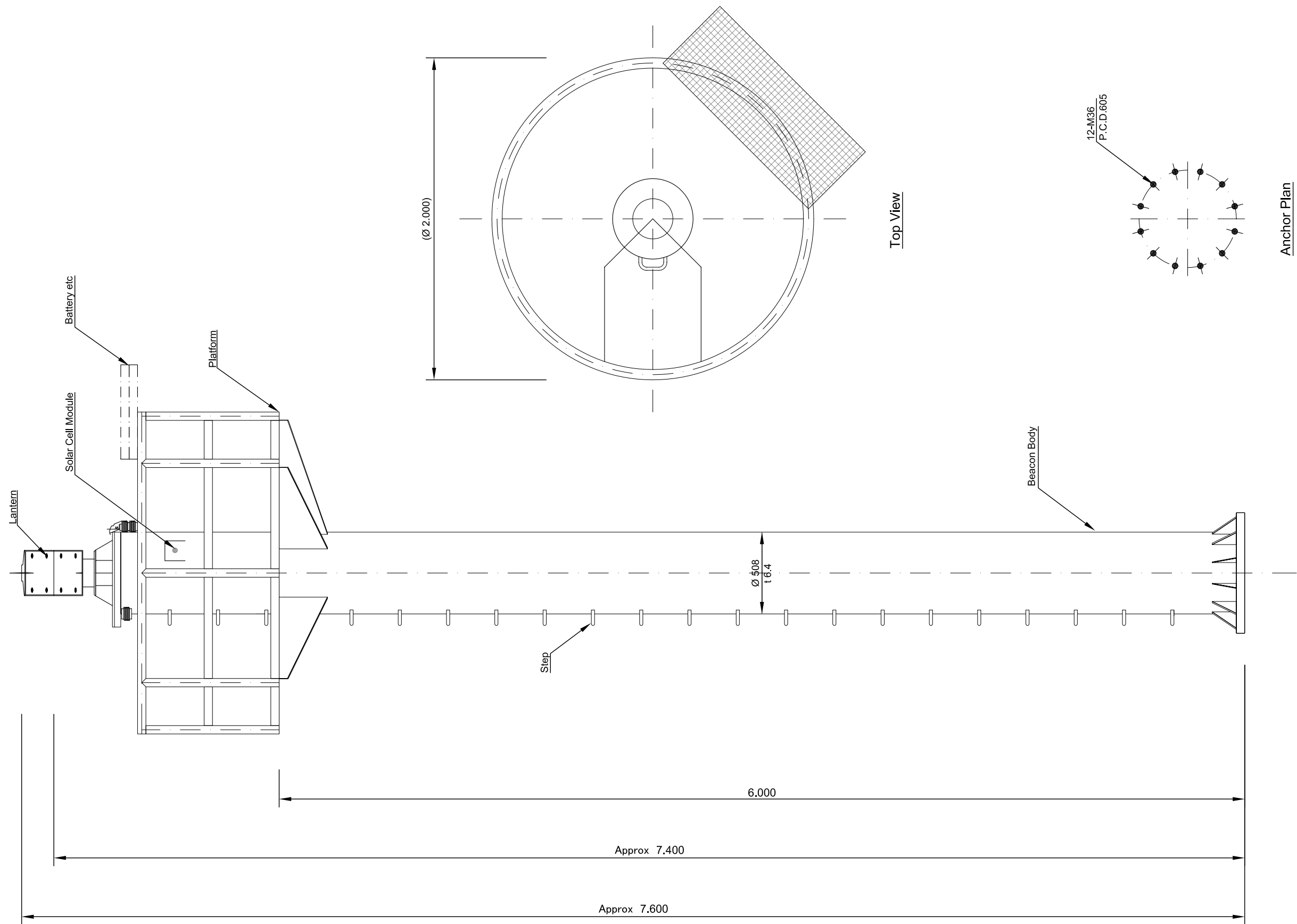
**THE DETAILED DESIGN ON THE URGENT REHABILITATION PROJECT OF THE TANJUNG PRIK PORT IN THE REPUBLIC OF INDONESIA**  

**NIPPON KOEI CO., LTD.**  

**JAPAN PORT CONSULTANTS, LTD.**

PREPARED BY : *A. E. Sulistiadi*  
 A. E. SULISTIADI  
 CHECKED BY : *M. Shiguro*  
 M. SHIGURO  
 APPROVED BY : *K. Okubo*  
 K. OKUBO

SECTION : CHANNEL AND BASIN IMPROVEMENT  
 SUB-SECTION : NAVIGATION AIDS  
 TITLE : **Lighted Buoy No.0, No.1, No.2**

DATE : **MARCH 2006**  
 SCALE : **1:20**  
 DRAWING NO. : **P-N-002**

Mass : approx. 4.2t  
 Total Buoyancy : approx. 80.3kN (8.2tf)  
 Main Material : Mild Steel



Mass : approx. 950kg  
(Without Power Source)  
Main Material : Galvanized Steel

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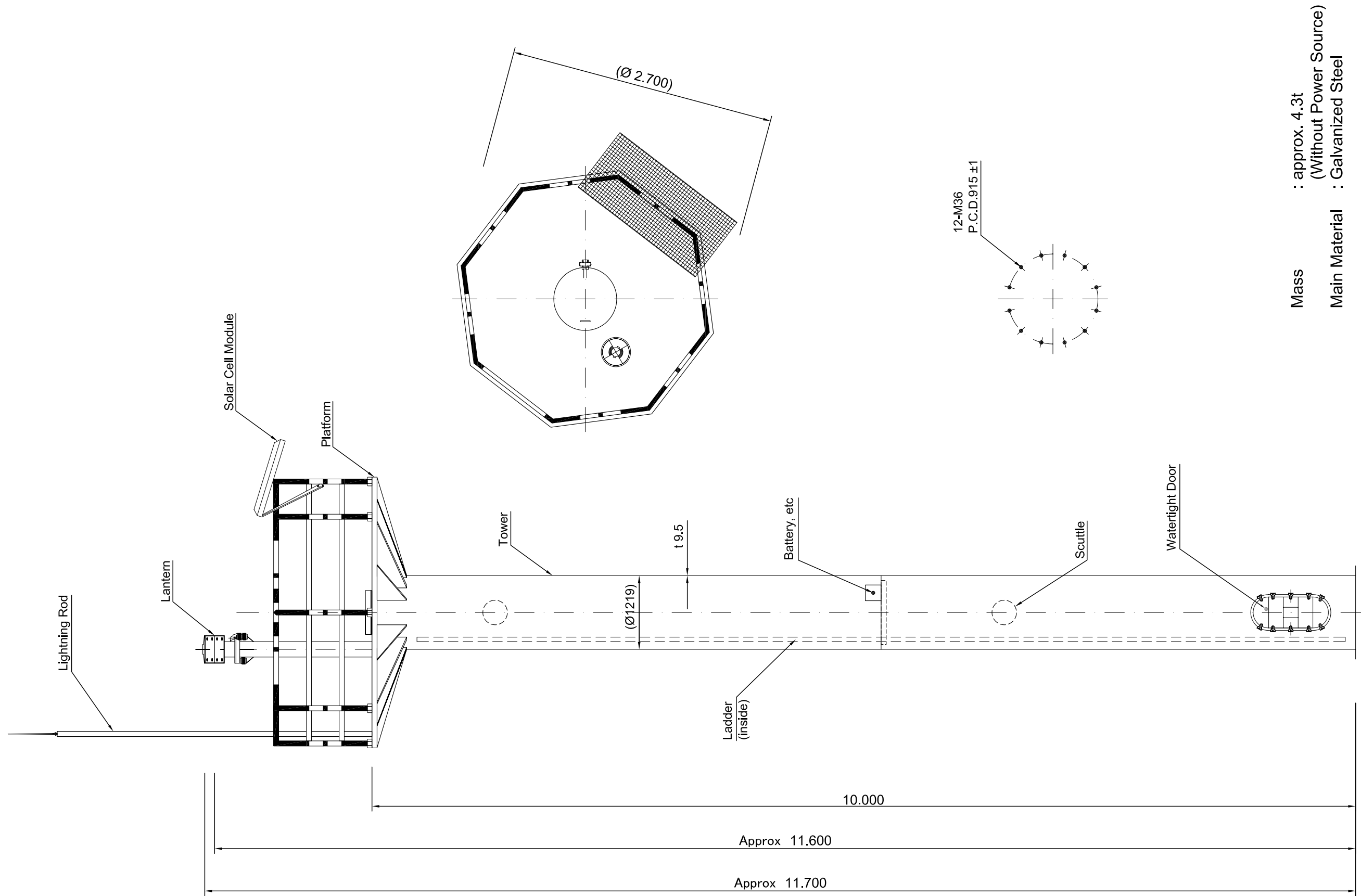
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M. SHIGURO  
APPROVED BY :  
*K. Okubo*  
K. OKUBO

SECTION : CHANNEL AND BASIN IMPROVEMENT  
SUB-SECTION : NAVIGATION AIDS  
TITLE : 6m Navigation Tower (No.5)

DATE : MARCH 2006  
SCALE : 1:25  
DRAWING NO. : P-N-003



Mass : approx. 4.3t  
(Without Power Source)  
Main Material : Galvanized Steel

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE

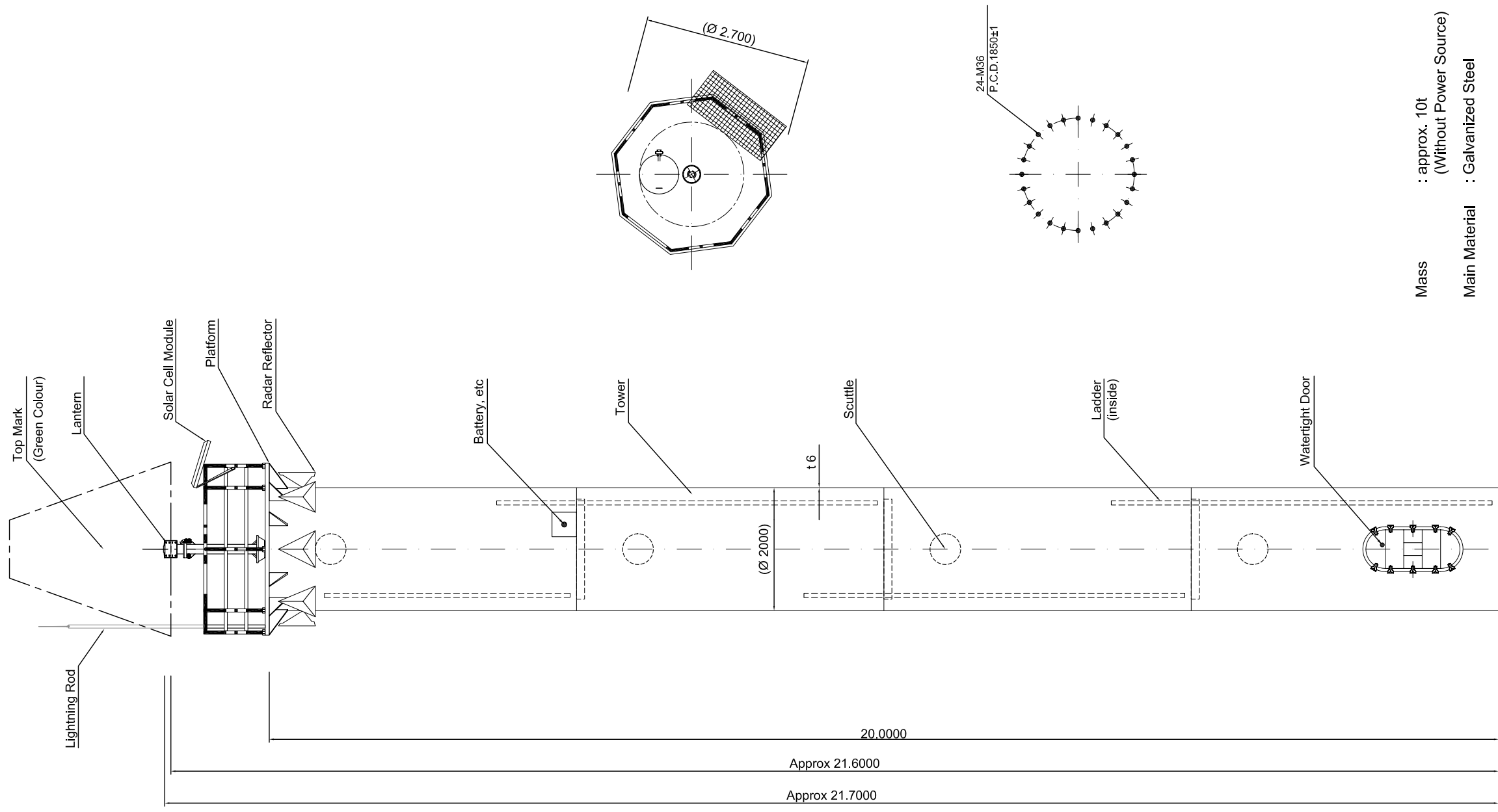
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SECTION : CHANNEL AND BASIN IMPROVEMENT  
SUB-SECTION : NAVIGATION AIDS  
TITLE : 10m Navigation Tower (No.7)

DATE :  
MARCH 2006  
SCALE :  
1:40  
DRAWING NO. :  
P-N-004



Mass : approx. 10t  
(Without Power Source)  
Main Material : Galvanized Steel

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE

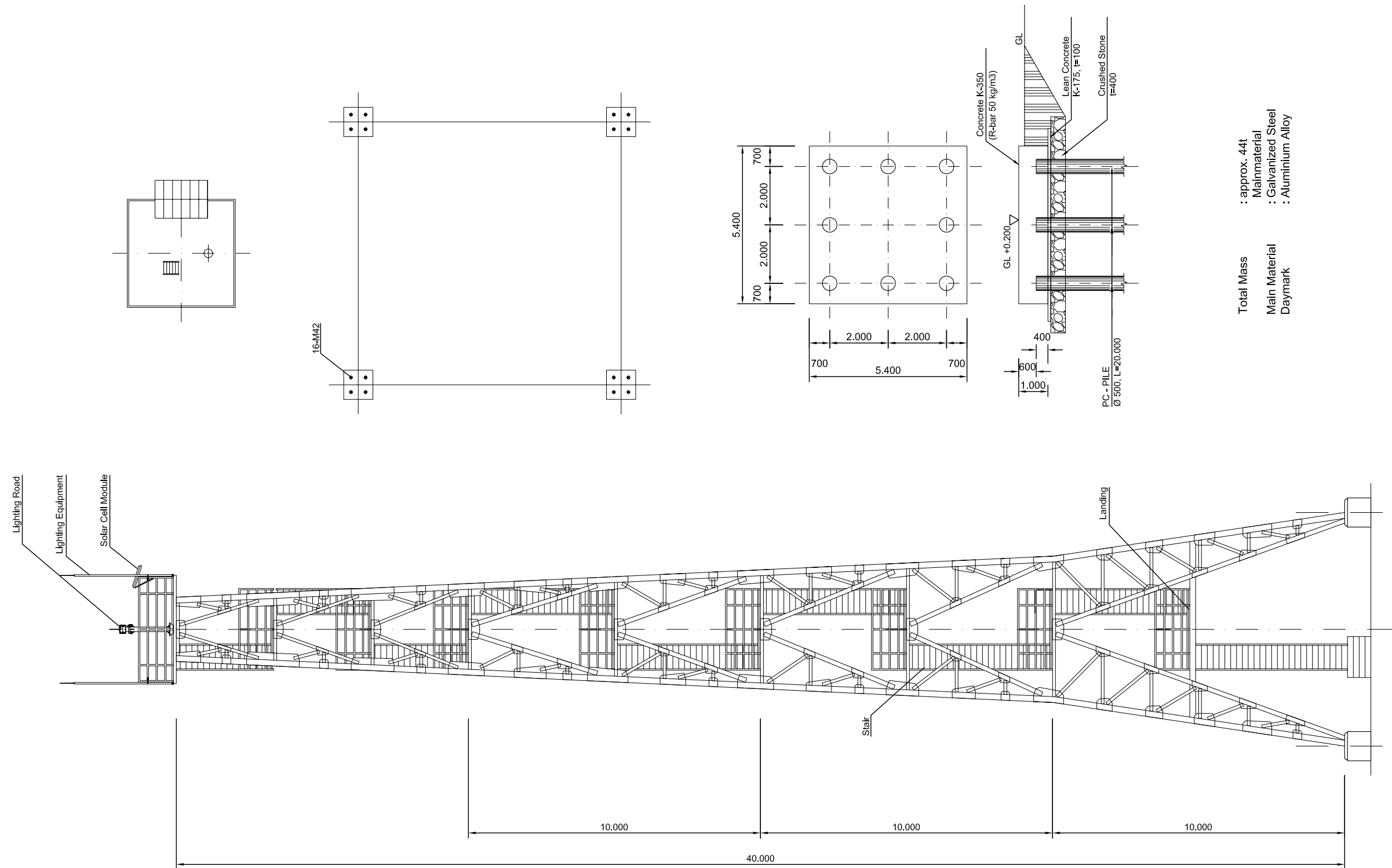
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SECTION : CHANNEL AND BASIN IMPROVEMENT  
SUB-SECTION : NAVIGATION AIDS  
TITLE : 20m Navigation Tower (No.4)

DATE : MARCH 2006  
SCALE : 1:80  
DRAWING NO. : P-N-005



Total Mass : approx. 44t  
 Mainmaterial : Galvanized Steel  
 Daymark : Aluminum Alloy

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE

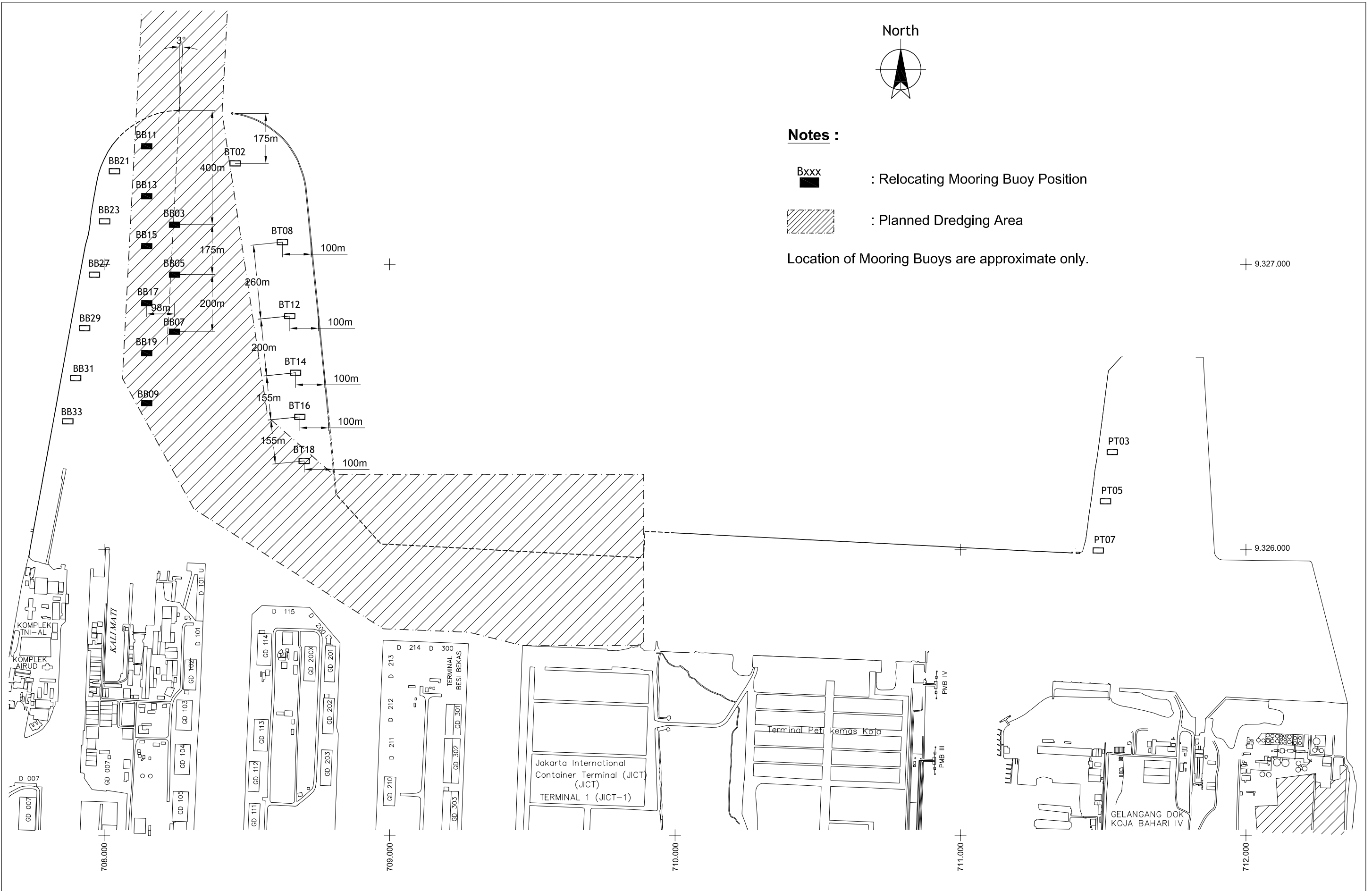
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SECTION : CHANNEL AND BASIN IMPROVEMENT  
 SUB-SECTION : NAVIGATION AIDS  
 TITLE : 40m Navigation Sector Light Tower (No.8)

DATE : MARCH 2006  
 SCALE : 1:150  
 DRAWING NO. : P-N-006



**Notes :**

**Bxxx** : Relocating Mooring Buoy Position

: Planned Dredging Area

Location of Mooring Buoys are approximate only.

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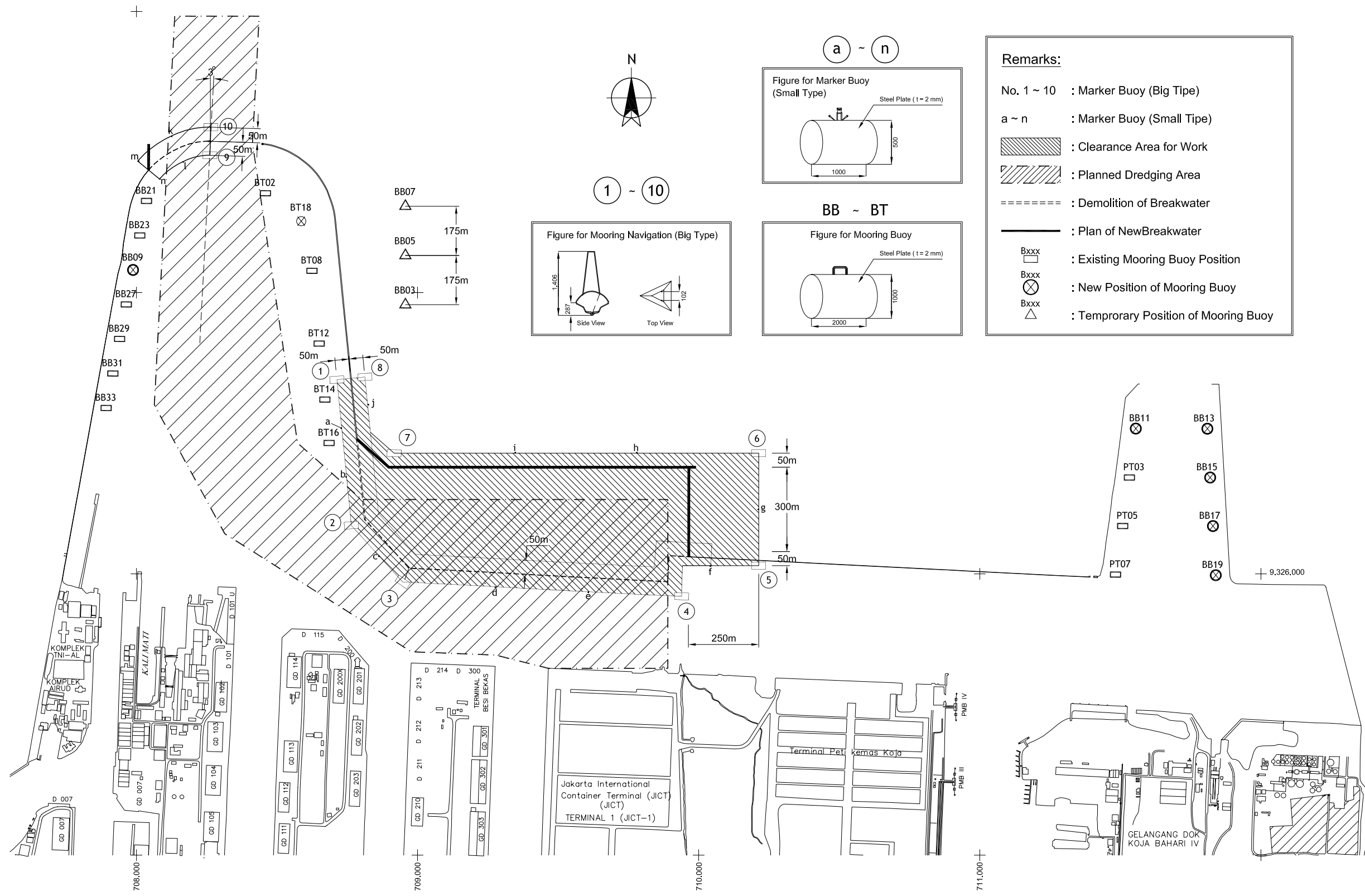
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 K. OKUBO

SECTION : CHANNEL AND BASIN IMPROVEMENT  
 SUB-SECTION : NAVIGATION AIDS  
 TITLE : **Plan of Existing Relocating Buoys**

DATE : **MARCH 2006**  
 SCALE : **1:1250**  
 DRAWING NO. : **P-N-007**



**Remarks:**

No. 1 ~ 10 : Marker Buoy (Big Tipe)

a ~ n : Marker Buoy (Small Tipe)

: Clearance Area for Work

: Planned Dredging Area

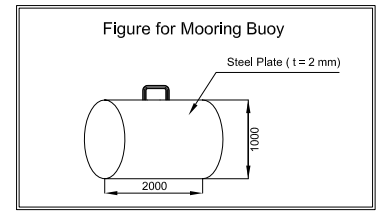
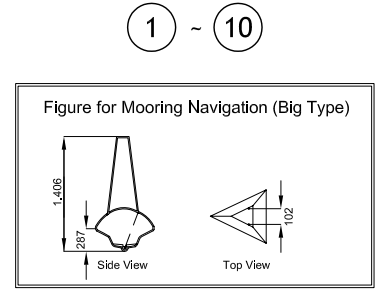
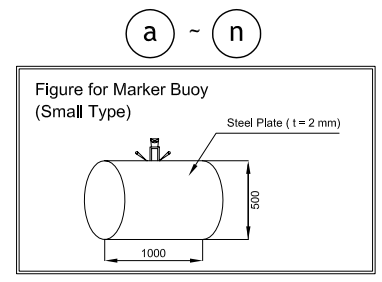
: Demolition of Breakwater

: Plan of New Breakwater

: Existing Mooring Buoy Position

: New Position of Mooring Buoy

: Temporary Position of Mooring Buoy



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APPROVED BY : *K. Okubo* K. OKUBO

SECTION : CHANNEL AND BASIN IMPROVEMENT

SUB-SECTION : NAVIGATION AIDS

TITLE : Relocation Plan of Navigation Aids (Temporary Marker Buoys)

DATE : MARCH 2006

SCALE : 1:1500

DRAWING NO. : P-N-008