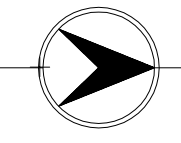


CONTOUR INTERVAL 1 METRE
CHART DATUM



LEGEND / NOTES :

- All measurements are in metres.
- Coordinates is in MRSO.
- All levels are based on Bench Mark No. BM 0031 (RL : 3.84m NGVD) (RL : 5.65m CD).
- Chart Datum at Tanjung Gelang is 1.76m Below Mean Higher High Water (MHHW).
- Chart Datum (CD) is 0.00m Below Mean Sea Level (MSL).
- Land Survey Datum (MSLD) is 0.21m Below Mean Higher Low Water (MHLW).
- Mean Lower Low Water (MLLW) is -1.28m Below Chart Datum (CD).
- Depth soundings are in metres below Chart Datum (CD).

NOTES :

TIDAL LEVELS AT TANJUNG GELANG
(Established from Royal Malaysian Navy Tide Table 2010)

NSVD (m)	LATCD (m)
Highest Astronomical Tide (HAT)	3.84
Mean Higher High Water (MHHW)	3.34
Mean Higher Low Water (MHLW)	2.28
Mean Sea Level (MSL)	1.92
Land Survey Datum (MSLD)	0.00
Mean Higher Low Water (MHLW)	1.57
Mean Lower Low Water (MLLW)	0.50
Lower Astronomical Tide (LAT) @ Chart Datum (CD)	-1.78
Chart Datum (CD)	0.00

DATUM RELATIONSHIP DIAGRAM

GEODETIC INFORMATION :

Geoid Data

- Malayan Revised Everest Spheroid
- Semi Major Axis : 6 377 304.063 metres
- Semi Minor Axis : 6 356 103.039 metres
- Eccentricity Squared : 0.006 637 846 6302
- Reciprocal Flattening (1/f) : 300.8017

Origin of Meridian of Reference

- Palang State Cassini
- Projection : G. Sijung
- Origin of Meridian : G. Sijung
- Longitude of Origin (GM) : E 102° 26' 10.24 E
- Latitude of Origin : N 05° 42' 29.50 N
- Falses Easting : 0 m
- Falses Northing : 0 m

CLIENT :

Muhibbah Engineering (M) Bhd
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Tel: (603) 3342 4223 Fax: (603) 3342 4227

PROJECT TITLE :

MUHIBBAH KUANTAN MARITIME HUB

DRAWING TITLE :

HYDROGRAPHIC AND TOPOGRAPHIC SURVEY - CHART DATUM

Supervised By: **Shafiqul Ridwan Amir**
Checked By: **Amzar Azlan Ghazali**
Plotted By: **Mastura**
Date of Survey: **29th June - 30th July 2016**

Checked By: **Shafiqe / Hairul**
Approved By: **S. Lee Cheuk Hock**

SCALE : 1 : 1000

Horizontal Scale
0 10 20 30 40 METRES

Surveyor's Drawing No: **JPWS/16/PHG/633/006/26** Drawing Date: **22nd August 2016**
Client's Drawing No: Sheet No: Rev:

REVISION	DATE	REPORT NO.	9182018

Chartered & Licensed Land Surveyors :

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