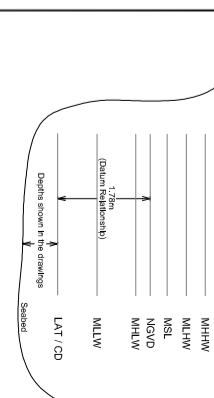


- LEGEND / NOTES :**
- All measurements are in metres.
 - Coordinates is in MRSO.
 - All levels are based on Bench Mark No. BM 0031 (RL : 3.84m NGVD) (RL : 5.65m CD).
 - Chart Datum at Tanjung Gelang is 1.78m Below Mean Sea Level (MSL).
 - Chart Datum (MSL) is 1.78m Below Mean Higher High Water (MHHW).
 - Chart Datum (CD) is 1.78m Below Mean Higher High Water (MHHW).
 - Open services meters above Chart Datum (CD).
 - Depth services meters below Chart Datum (CD).

TIDAL LEVELS AT TANGJUNG GELANG
(Established from Royal Malaysian Navy Tide Table 2016)

| NSGD (m) | LAT/CD (m) |
|---------------------------------|------------|
| Highest Astronomical Tide (HAT) | 3.84 |
| Mean Higher High Water (MHHW) | 3.34 |
| Mean Lower High Water (MLHW) | 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) | -1.28 |
| Chart Datum (CD) | -1.78 |



GEODETIC INFORMATION :

Geoidetic Data

- Spheroid : Malayan Revised Everest
- Semi Major Axis : 6 377 304.063 metres
- Semi Minor Axis : 6 356 103.039 metres
- Eccentricity Squared : 0.006 637 846 6392
- Rectifical Flattening (1/f) : 300.8017

Origin of Meridian of Reference

- Projection : Penang State Cassini
- Origin of Meridian : G. Sijung
- Longitude of Reference : E 102° 26' 10.24 E
- Latitude of Origin : N 03° 42' 29.50 N
- Falset Easting : 0 m
- Falset Northing : 0 m

CLIENT :

Muhibbah Engineering (M) Bhd
Lot 586 & 579, 2nd Mile
Jalan Bait Tiga Lanna
Jalan 41300 Kajang
Selangor Darul Ehsan

MUHIBBAH KUANTAN MARITIME HUB

DRAWING TITLE :
HYDROGRAPHIC AND TOPOGRAPHIC SURVEY - CHART DATUM -

PROJECT TITLE :
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DATE OF SURVEY : 29th June - 30th July 2016

Surveyed By: Ahmad, Miftaham, Amir, Saiful, Azhar, Arif, Mhdham, Bahari, Azlan, Azlan, Azlan, Azlan
Checked By: Mastura
Drawn By: Mastura
Approved By: S/ Lee Cheuk Hock

SCALE : 1 : 1000

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