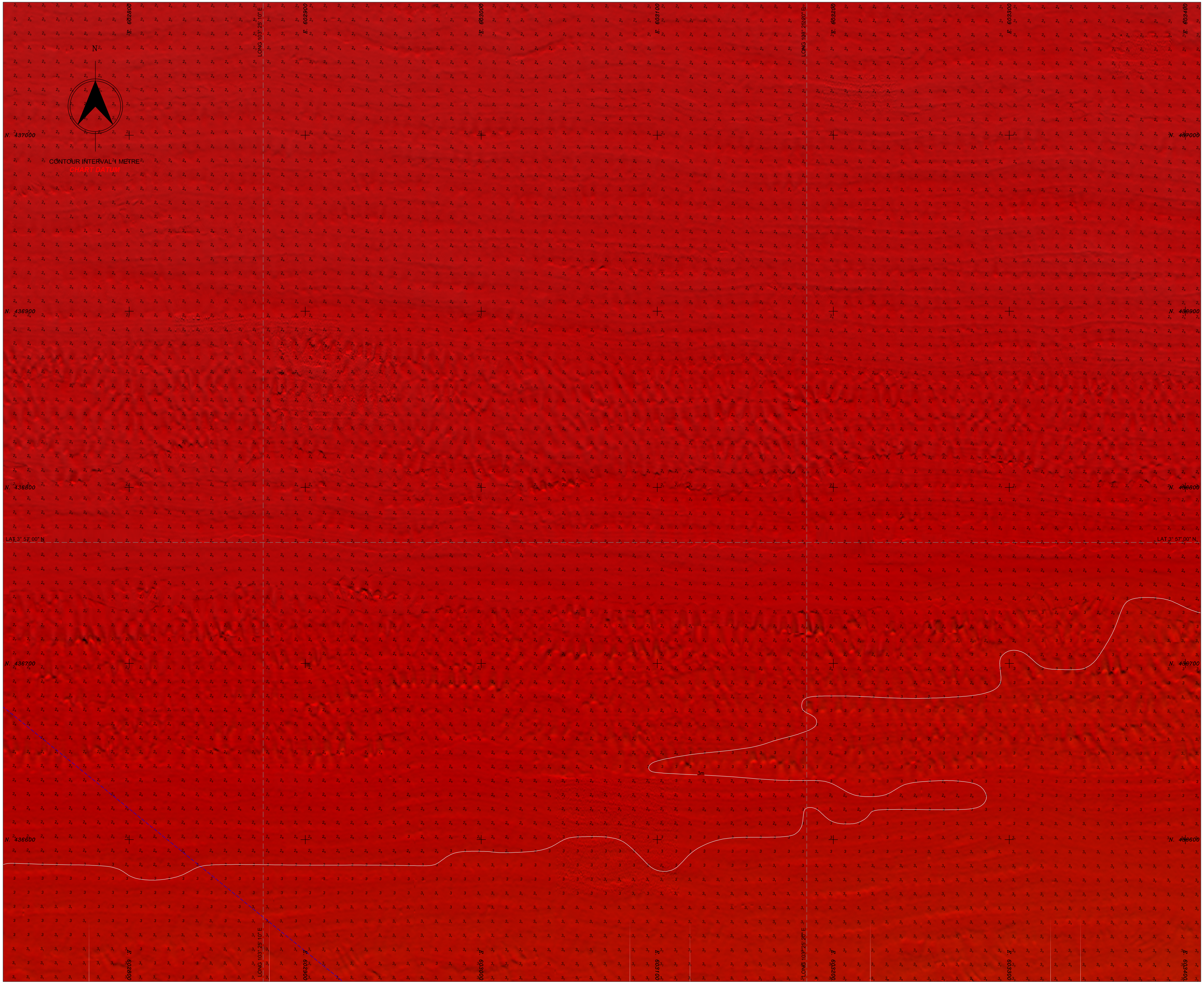

N
CONTOUR INTERVAL 1 METRE
CHART DATUM
N. 437000
N. 436900
N. 436800
N. 436700
N. 436600
E. 602800
E. 602900
E. 603000
E. 603100
E. 603200
E. 603300
E. 603400
LONG 103° 25' 10" E
LONG 103° 25' 20" E
LAT 3° 57' 00" N
3m

LEGEND / NOTES :

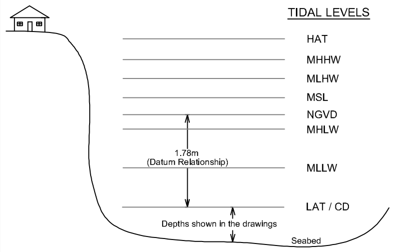
1. All measurements are in metres.
2. Coordinates is in MRSO .
3. All levels are based on Bench Mark No. BM C0331 (RL : 3.844m NGVD) (RL : 5.620m CD).
4. Chart Datum at Tanjung Gelang is 1.78m Below Land Survey Datum (NGVD).
5. Horizontal Datum was adopted from 3 proven boundary marks at Lot 27099 (PA 126126).
6. $\underline{1}_{1}$ Depth denotes metres above Chart Datum (CD).
7. $1_5 , 3_5 , 5_2 , 10_4$ Depth denotes metres below Chart Datum (CD).

NOTES :

TIDAL LEVELS AT TANJUNG GELANG
(Abstracted from Royal Malaysian Navy Tide Table 2016)

		NGVD (m)	LAT/CD (m)
Highest Astronomical Tide (HAT)	:	2.06	3.84
Mean Higher High Water (MHHW)	:	1.56	3.34
Mean Lower High Water (MLHW)	:	0.50	2.28
Mean Sea Level (MSL)	:	0.14	1.92
Land Survey Datum (NGVD)	:	**0.00**	**1.78**
Mean Higher Low Water (MHLW)	:	-0.21	1.57
Mean Lower Low Water (MLLW)	:	-1.28	0.50
Lowest Astronomical Tide (LAT) @ Chart Datum (CD)	:	-1.78	0.00

DATUM RELATIONSHIP DIAGRAM


TIDAL LEVELS
HAT
MHHW
MLHW
MSL
NGVD
MHLW
1.78m
(Datum Relationship)
MLLW
LAT / CD
Depths shown in the drawings
Seabed

GEODETIC INFORMATION :

Geodetic 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 6302
Reciprocal Flattening (1/f)	: 300.8017

Origin of Meridian of Reference

Projection	: Pahang State Cassini
Origin of Meridian of Reference	: G. Sinyum
Longitude of Origin (CM)	: E 102° 26' 10."24 E
Latitude of Origin	: N 03° 42' 39."50 N
False Easting	: 0 m
False Northing	: 0 m

CLIENT :

Muhibbah Engineering (M) Bhd
Lot 586 & 579 , 2nd Mile
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41300 Klang
Selangor Darul Ehsan
Tel: (603) 3342 4323 Fax: (603) 3342 4327

PROJECT TITLE:

MUHIBBAH KUANTAN MARITIME HUB

DRAWING TITLE:

HYDROGRAPHIC AND TOPOGRAPHIC SURVEY
- CHART DATUM -

Surveyed By: Shafizie , Nursamsi , Ridzuan , Amrie , Amzar , Arina , Hiesham , Bahari & Che Long	Date Of Survey: 29th June - 30th July 2016
Plotted By: Mastura	Drawn By: Mastura
Checked By: Shafizie / Hairul	Approved By: Sr. Lee Chenk Hock

SCALE :
1 : 1000
HORIZONTAL
20 10 0 20 40 60
METRES

Surveyor's Drawing No : JPWS/16/PHG/533/006/23	Drawing Date : 22nd August 2016	
Client's Drawing No :	Sheet No :	Rev :

REVISION	DATE	REPORT NO : 918/2016

Chartered & Licensed Land Surveyors :

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