



Legend :

- denotes elevations below/above datum
- Contour at 1 meter intervals
- Survey Limits
- Shore line digitized from CHART MAL 5300
- Surveyed shore line
- Traverse line
- Lot boundaries with lot numbers
- Mangrove
- Manhole
- Gate
- Chain Link Fence
- High Water Mark
- Slope
- Building
- Property boundary marker found
- Cross Section Location
- Buoy / Beacon

Memor :

1. Survey Date
 - i. Bathymetric Survey : 06-22/06/2018
 - ii. Topographic Survey : 01-23/06/2018
2. Survey Datum & Grid
 - i. Bathymetric Survey : WGS 84 Universal Transverse Mercator, Zone 47 N
 - ii. Topographic Survey : Selangor State Cassini
3. Drawing Grid : Selangor State Cassini Grid
4. Equipment used
 - Hydrographic Survey**
 - Kullen 3000 (2009) EchoSounder/Volvo 740 water level recorder
 - C-Nav GcGPS system (Globally corrected GPS) via C-View Navigation Operating software package
 - License Survey Boat Reg. No. SP9097P and shallow draft fibreglass dinghy
 - Topographic Survey**
 - Topcon G5 (Capable of tracking GPS, GLONASS, BeiDou, Galileo, QZSS constellations) Total Station Topcon ES 105
 - GPS South Galaxy C3 (Innovative structure design Tilt centering and electronic bubble N/Func Advanced datalink module full constellation support and Compass Level)
5. All measurements are in metres

Horizontal control

- 1) The horizontal position of the survey vessel was located by GcGPS (Globally corrected GPS) C-Nav navigation System, surveyed on WGS 84 UTM Zone 47 N coordinates ; were later transformed to Selangor State Cassini Grid for final plotting
- 2) Horizontal control based on GPS Static Observation. Reduce to Selangor State Cassini (Old) grid projection.

Vertical control

All elevations were reduced to Chart Datum which was 5.60m below BM 1004B, located on the left side of the main entrance at Anglers Resort Jetty, Pulau Indah, Klang, Selangor established by RMN

Revision no.	Date	Drawn by	Interpreted by	Checked by	Remarks
1	31/7/2018	Khairani		Mohamad	Final

Project :
WESTPORTS DEVELOPMENT PROPOSED EXPANSION OF CONTAINER TERMINAL CT10-CT19 AND ITS ASSOCIATED WORKS AT WESTPORTS, PULAU INDAH SELANGOR DARUL EHSAN

Drawing Title : LAYOUT PLAN
Drawing Number : EGS43718/LP1
Scale : 1:20000
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 Accredited Hydrographic Surveyor