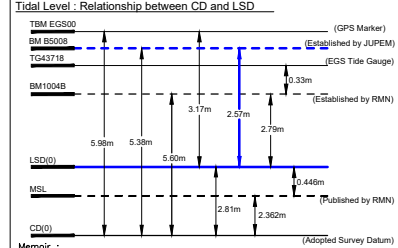


- Legend :**
- 15.2 -18.8 -21.3 : Denotes elevations below datum
 - 0.5 1.2 1.3 : Denotes elevations above datum
 - : Contour at 1 meter intervals
 - : Survey Limits
 - : Shore line digitized from CHART MAL 5300
 - : Surveyed shore line
 - : Traverse line
 - 158331 : Lot boundaries with lot numbers
 - ☐ : Mangrove
 - ☐ : Manhole
 - ☐ : Gate
 - : Chain Link Fence
 - : High Water Mark
 - : Slope
 - ☐ : Building
 - ☐ : Properly boundary marker found
 - ☐ : Buoy / Beacon



- Memoir :**
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**
 - Kongsberg 1200 (2018) EchoSounder Valeport T40 water level recorder
 - C-Nax G-GPS system (Globally corrected GPS) i.e. C-View Navigation Operating software package
 - License Survey Boat Reg. No. BPN087P and shallow draft fiberglass dinghy
 - Topographic Survey**
 - Topcon G5 (Capable of tracking GPS, GLONASS, BeiDou, Galileo, QZSS constellations) Total Station Topcon ES 105
 - GPS South Galaxy G1 (Innovative structure design, 7th centimeter and electronic bubble, NFC function, Advanced data link, modular 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 G-GPS (Globally corrected GPS) C-Nax 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 (Ch) grid projection.
- Vertical control**
- All elevations were reduced to Chart Datum which was 5.60m below BM 10048, located on the left side of the main entrance at Angkasa Resort, Jely, Pulau Indah, Klang, Selangor established by RMN.

Revision no.	Date	Drawn by	Interpreted by	Checked by	Remarks
	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 :

TOPOGRAPHIC AND BATHYMETRIC SURVEY

Drawing Number : EGS43718/Sheet 2

Scale : 1: 5000

Client :

P.O. Box 268, Pulau Indah,
42009 Port Klang, Selangor Darul Ehsan, Malaysia.

Consultant :

HSS INTEGRATED SDN. BHD (2002-1)
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Surveyors by :

Surveyed by :

EGS (MALAYSIA) SDN BHD
312B, Melawati Square
Lorong Kerdas off Jalan Nagara
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Certified by :

Dr. Sr. KHARUL SALEH BIN H. JAMALUDIN
MAMUK, 75200/02A, C-1 / C-1 B, L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100, L101, L102, L103, L104, L105, L106, L107, L108, L109, L110, L111, L112, L113, L114, L115, L116, L117, L118, L119, L120, L121, L122, L123, L124, L125, L126, L127, L128, L129, L130, L131, L132, L133, L134, L135, L136, L137, L138, L139, L140, L141, L142, L143, L144, L145, L146, L147, L148, L149, L150, L151, L152, L153, L154, L155, L156, L157, L158, L159, L160, L161, L162, L163, L164, L165, L166, L167, L168, L169, L170, L171, L172, L173, L174, L175, L176, L177, L178, L179, 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