

ASD TUG

MAIN DESCRIPTION

Type	ASD Tug
Vessel built	2026
Vessel name	TBN
Hull Number	HH1068
IMO	--
Call sign	--
Flag	--
Class	LR + 100A1 Escort Tug EPN Fire-fighting Ship 1, Unrestricted Service *IWS, +LMC, UMS

MEASUREMENTS

Length Overall	32.80 m
Length BP	27.80 m
Breadth	13 m
Depth	5.30 m
Design Draft	3.95 m
Max draft to skeg	5.35 m
Disp. at design draft	<900 t
Gross Tonnage	<500
Working deck area	80 m2
Cargo deck design	load 5t/m2

ENGINE DETAILS

Engine	2 x Diesel Engines of 2,383kW at 750 rpm
Type	Medium Speed c/w azimuth propellers
Total BHP	3,200bhp
Generating Sets	2 x 150 kW (400V/3/50Hz)
Azimuth Propellers	2 x Z-peller (FPP)

PERFORMANCE

Bollard Pull	80t AHEAD / 72t ASTERN
Max. Speed	14 knots
Service Speed	12 knots

TANK CAPACITIES

Fuel Oil	160 m3
Potable Water	20 m3
Tech. F.W. tank	50 m3
Foam	20 m3

ACCOMMODATION

Fully air-conditioned for total 14 men	
4 x 1-berth cabins	4 men
5 x 2-berth cabins	10 men

NAV & COMMUNICATIONS

- 2 x Daylight display color radars, one S-band and one X-band
- Standard magnetic reflector compass
- Wind Anemometer: 1 Wind velocity and direction indicator with illumination
- Autopilot model
- Echo sounder : 200 KHz c/w transducer etc
- 1 x DGPS & display for precise position fixing at operational sites
- Automatic identification system (IMO approval)
- Gyro compass with repeaters forward and aft wheelhouse console
- Inmarsat System: 1 x mini-Inmarsat 'C'
- BNWAS
- Navtex receiver
- ECDIS 1 x 20" Display, fully integrated with GPS, RADAR, and AIS

DECK/TOWING EQUIPMENT

Tow Winch (AFT)

- Winch type - Electro-hydraulic local & remote controlled
- Drum configuration - Independent drum
- Line capacity - 400m x 100mm dia. (Synthetic rope)
- Rated pull - 20t x 0~10m/min, 5t x 0~30m/min (1st layer)
- Drum barke holding - 200t (static, 1st layer)

Anchor Windlass / Towing Winch (FWD)

- Gypsy size: 28mm Dia. U2 chain
- 220m x 100mm dia. (Synthetic rope)
- 80t x 0~6m/min, 40t x 0~12m/min

Capstan (Aft Port side)

- One electro-hydraulic capstan with pulling force of 5t at 15m/min and Variable speed control.

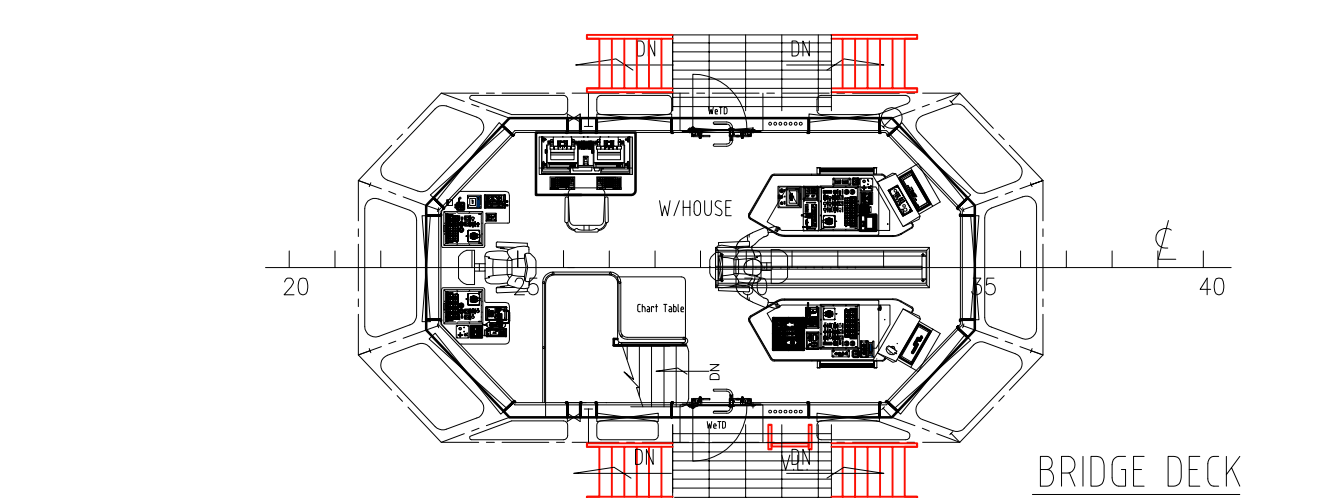
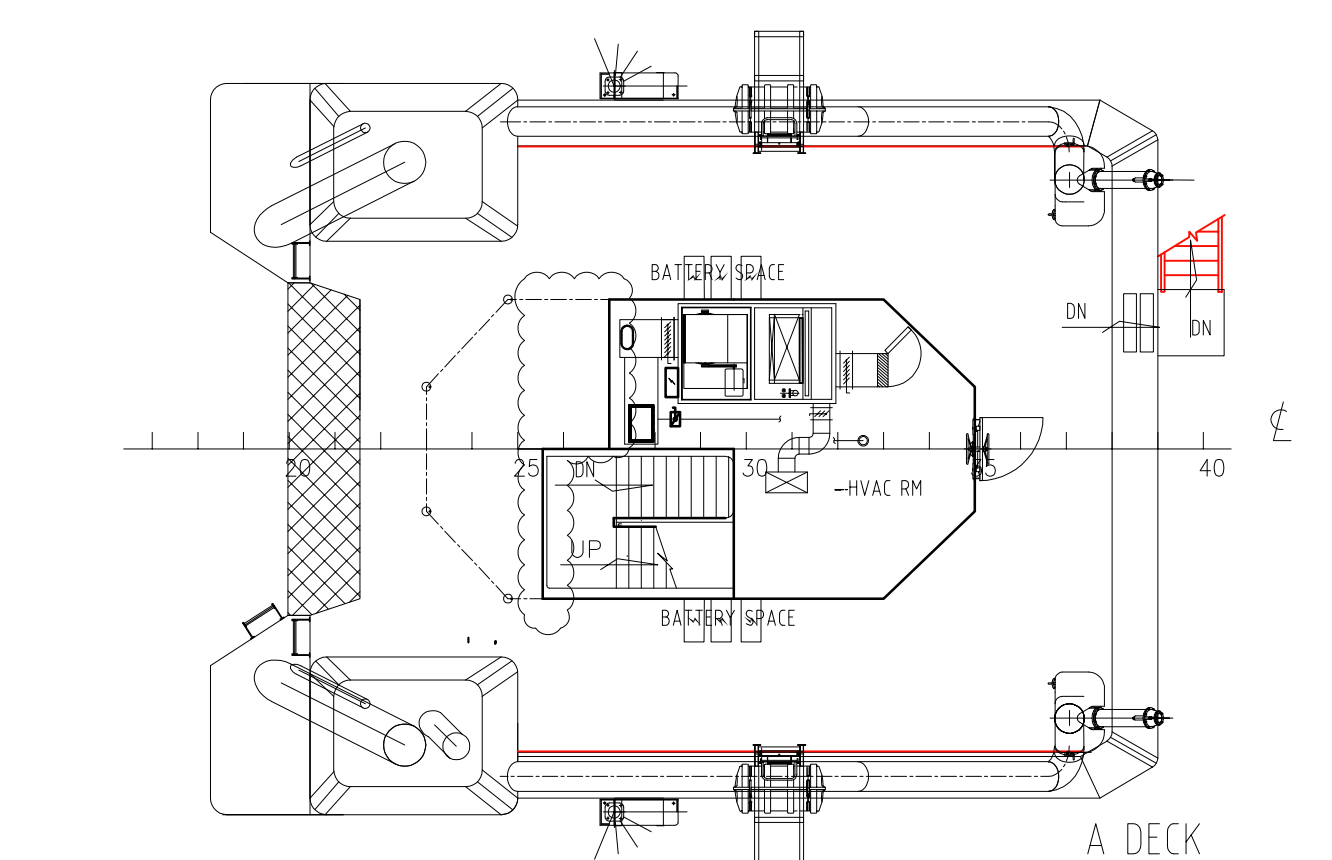
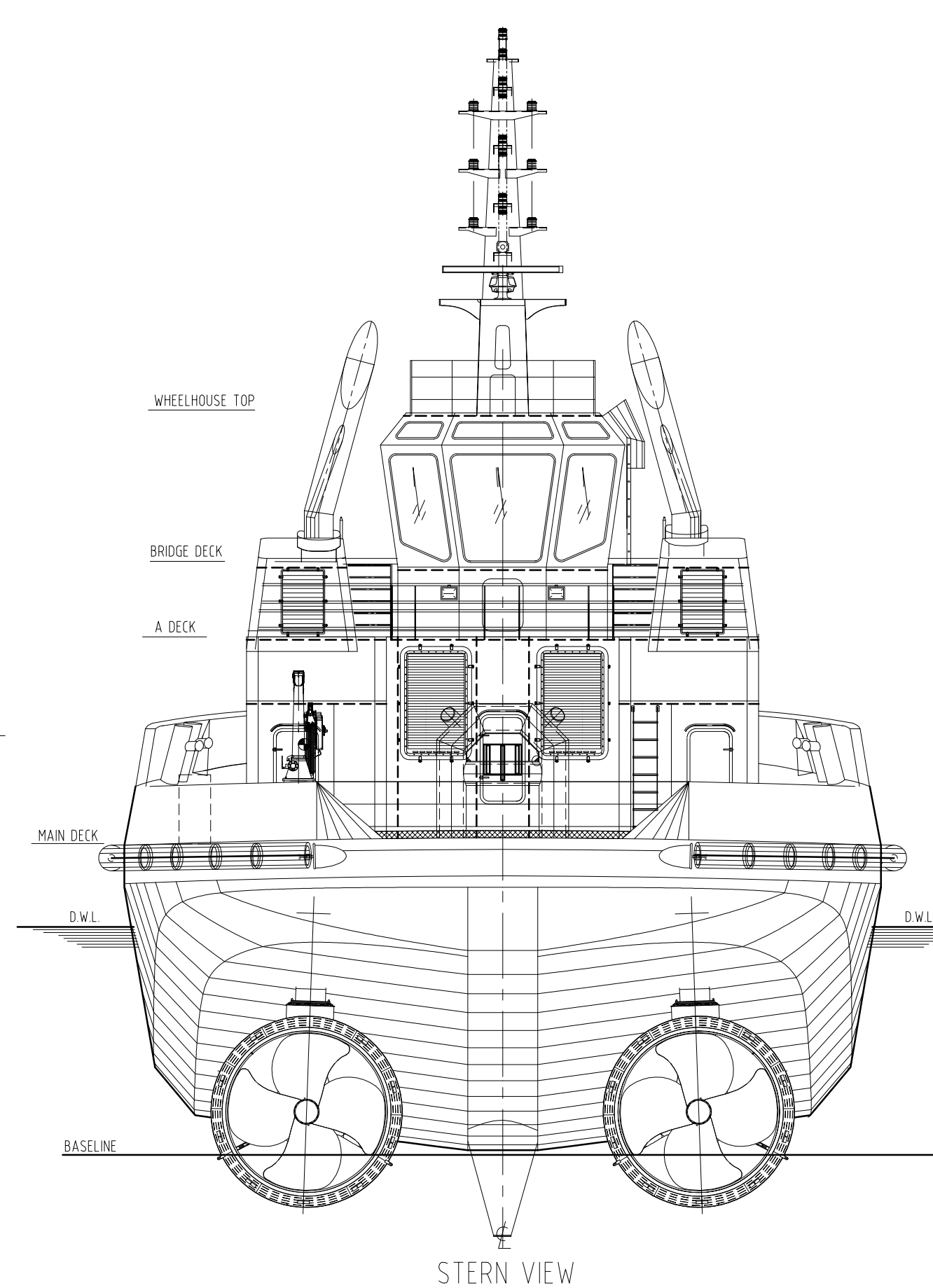
DECK CRANE

SWL 1t at outreach 8m

Electro-hydraulic type with telescopic boom & independent power pack

FIRE FIGHTING SYSTEM (FI-FI 1)

- Main fire pumps: (1)
 - o Driven by high speed, turbo-charged, non-reversible marine diesel engine, with suitable capacity and front PTO.
 - o Capacity: 1 x 2400m³/h
- Monitors: (2)
 - o 2 x dual barrel water/foam monitors
 - o Remote controlled from wheelhouse
 - o Capacity: 1200/m³/hr each



LENGTH OA	_____	32.80 M
LENGTH BP	_____	27.80 M
BEAM MLD.	_____	13.00 M
DEPTH MLD.	_____	5.30 M
DESIGN DRAFT	_____	3.95 M
MAX. DRAFT TO SKEG	_____	5.35 M
DISP. AT DESIGN DRAFT	_____	< 900 T
GROSS TONNAGE	_____	< 500
COMPLEMENT	_____	14 MEN

MAIN ENGINES _____ 2 X 2,383 KW
GENERATORS _____ 3 X 150 KW
BALLARD PULL _____ 80 T
SERVICE SPEED(85%MCR) _____ 12 KTS
MAX. SPEED(100%MCR) _____ 14 KTS

FUEL OIL _____	160 M ³
FRESH WATER _____	30 M ³
TECH. F.W. TANK _____	30 M ³
FOAM _____	20 M ³

WORKING DECK AREA — ABT. 80 M²
WORKING DECK LOAD ————— 5T/M²

4	AMENDED AS DESIGN PROGRESS		YP	DEC-02-2025
3	AMENDED AS DESIGN PROGRESS		YP	OCT-15-2025
REV NO.	REVISION DESCRIPTION		BY	DATE
OWNER				
BUILDER				
PROJECT				
32M ESCORT TUG				
APPROVE		DWG TITLE: GENERAL ARRANGEMENT	JOB NO.:	P-2595
VERIFIER			DWG NO.:	P-2595-G01
CHECKER			SCALE :	1:90 (A1)
DRAWER	YP		CLASS :	LR

CLASS: LR  100A1, ESCORT TUG EPN (CFD: 70t, 90t, 10kn),
FIRE-FIGHTING SHIP 1 (2400 M³/H) WITH WATER SPRAY,
UNRESTRICTED SERVICE,
*IWS
 LMC, UMS