



BOS ARES

5,150 BHP | 65 t BP | DP1 AHTS

Class Notation: A1, Towing Vessel, Fire Fighting Vessel Class 1, Offshore Support Vessel, AH, AMS

Main Particulars	
Particular	Detail
Flag	Singapore
IMO	9552197
Call Sign	9V8668
Built	2012
Length Overall	59.25 m
Depth (Moulded)	6.1 m
Breadth (Moulded)	14.95 m
Max Summer Draft	4.95 m
Gross Tonnage	1,678 t
Net Tonnage	503 t
Deadweight	1,319 t

Main Engines & Generators	
Component	Specification
Main Engines	2 x CAT 3516B, 2,575 BHP each
Generators	2 x CAT C18 350 kW
Shaft Generators	2 x 800 kW
Emergency Generator	1 x CAT 65 kW

Thrusters & Propulsion	
Component	Specification
Bow Thruster	Kawasaki KT-72B3, 515 kW, 8 t thrust
Stern Thruster	Kawasaki KT-55B3, 390 kW, 6 t thrust
Propellers	2 x CPP in fixed Kort nozzles

Deck & Anchor-Handling Equipment	
Equipment	Rating / Size
Tow / AH Winch Pull	150 t
Brake Holding Capacity	200 t
Tow Drum Capacity	1,000 m x $\varnothing$ 56 mm
Anchor Handling Drum	100 m x $\varnothing$ 56 mm
Spare Tow Wire Capacity	1,000 m x $\varnothing$ 56 mm
Tugger Winches	2 x 10 t @ 15 m min ⁻¹
Capstans	2 x 5 t @ 15 m min ⁻¹
Shark Jaws	200 t SWL
Tow Pins	2 x closed-top 200 t SWL
Stern Roller	4.0 m x $\varnothing$ 1.6 m; 200 t SWL
Deck Crane	1 x 3 t @ 9 m
Anchor	2 x 1,310 kg HHP
Anchor Chain	2 x 16 lengths x $\varnothing$ 36 mm
Anchor Windlass	MacGregor

Accommodation	
Item	Capacity
Crew	14
Passengers	26
Total Berths	40

Performance		
Mode	Speed	MGO Consumption
Max Speed	13 kn	18,000 L d ⁻¹
Service Speed	10 kn	10,000 L d ⁻¹
Towing	—	20,000 L d ⁻¹
Standby	—	1,200 L d ⁻¹

Tank Capacities & Discharge Rates		
Tank	Capacity	Discharge Rate
Fuel Oil	535 m ³	150 m ³ h ⁻¹ @ 75 m head
Fresh Water	360 m ³	100 m ³ h ⁻¹ @ 75 m head
Drill Water*	400 m ³	100 m ³ h ⁻¹ @ 75 m head
Mud/Base/Brine*	378 m ³	70 m ³ h ⁻¹
Dry-Bulk/Oil-Recovery*	187 m ³	—

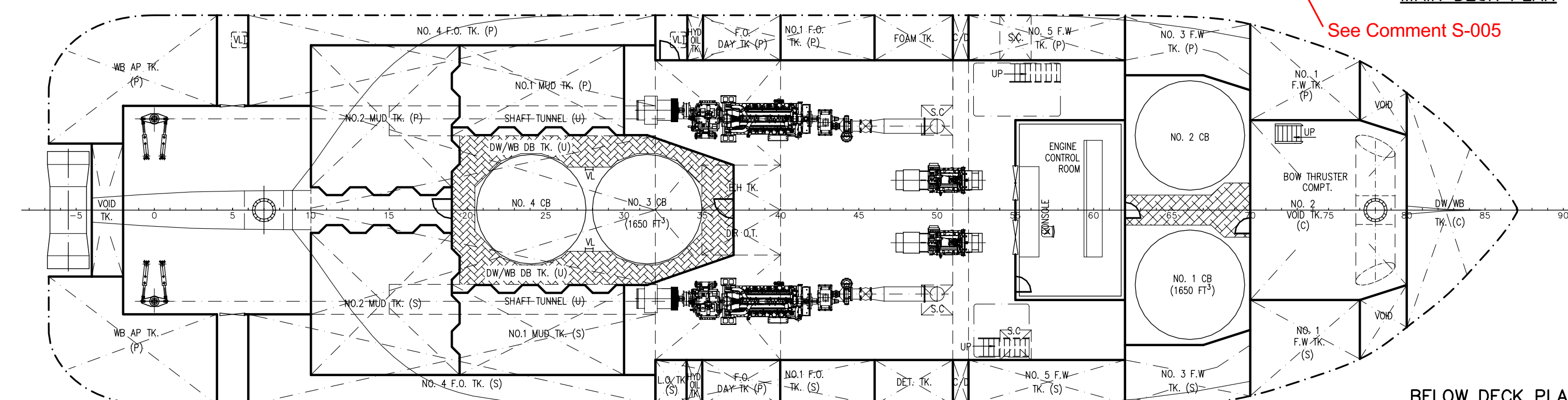
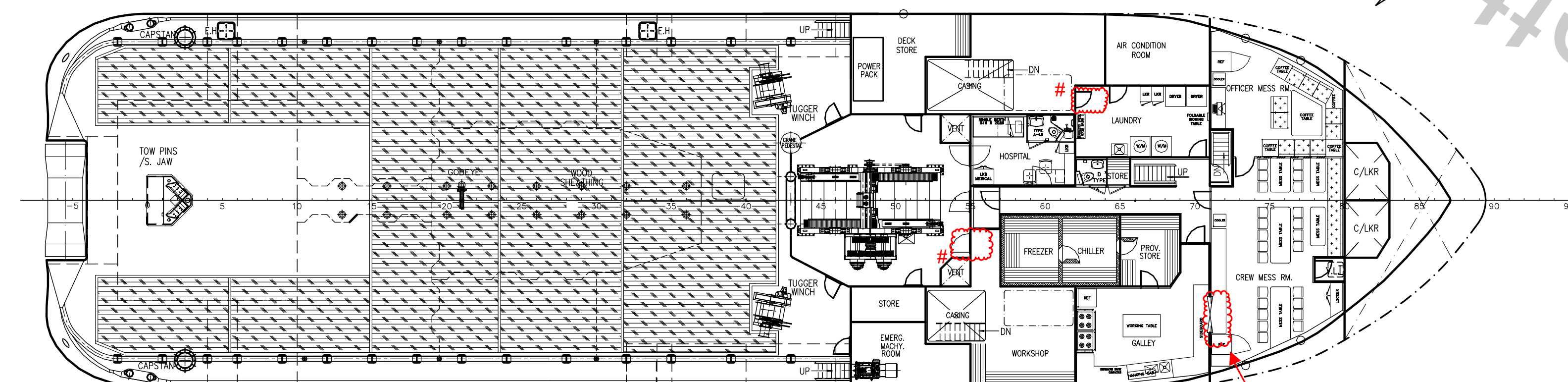
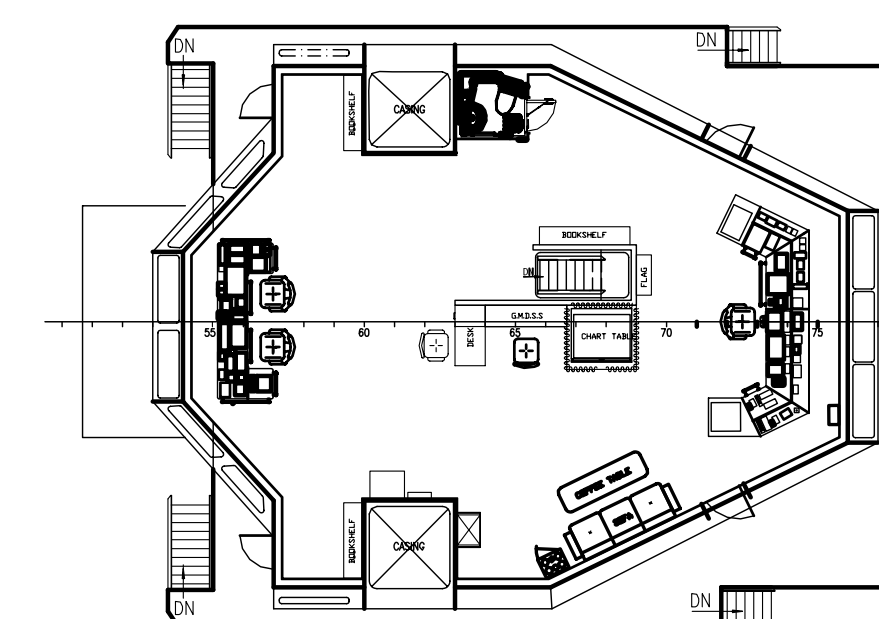
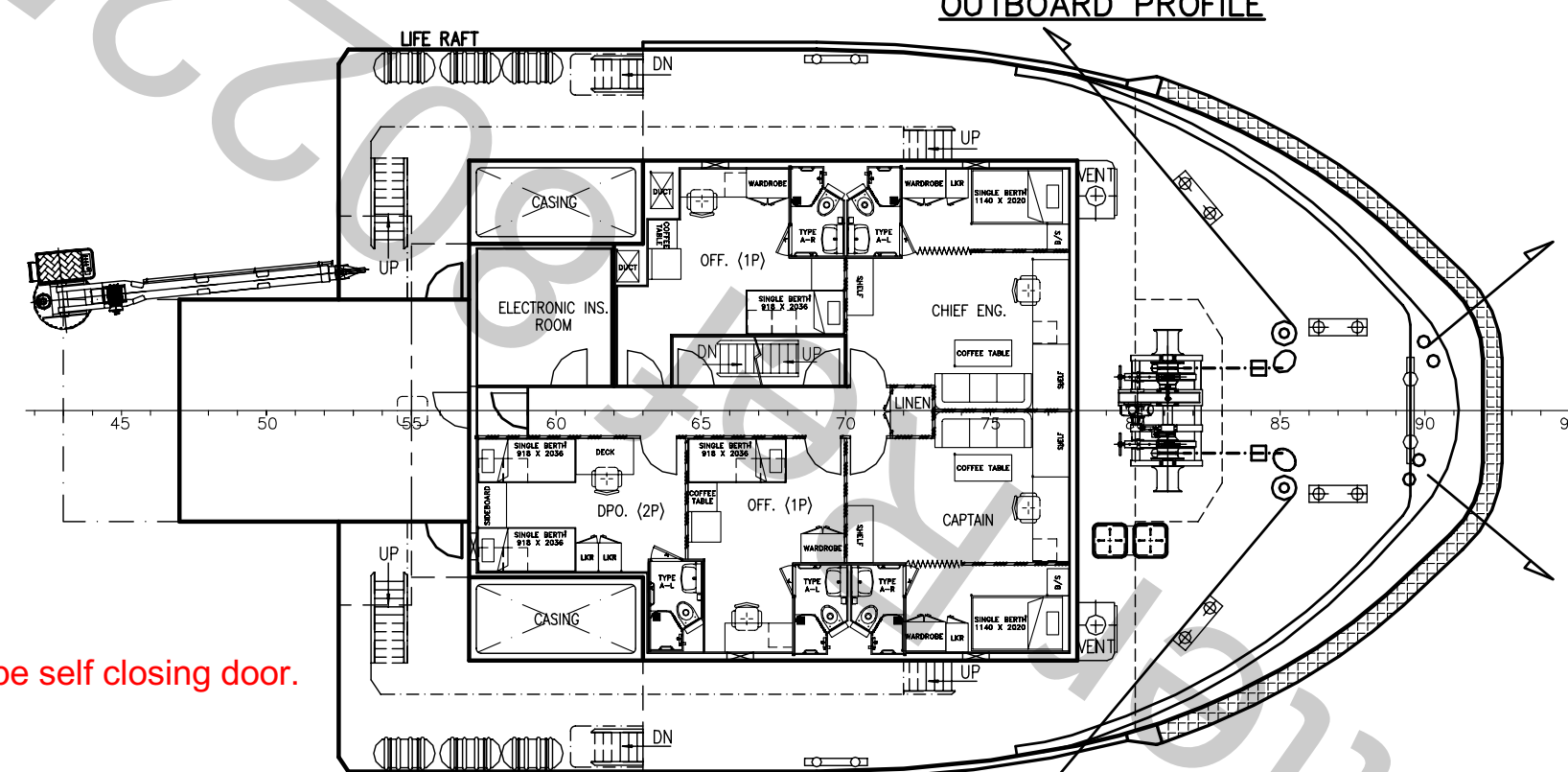
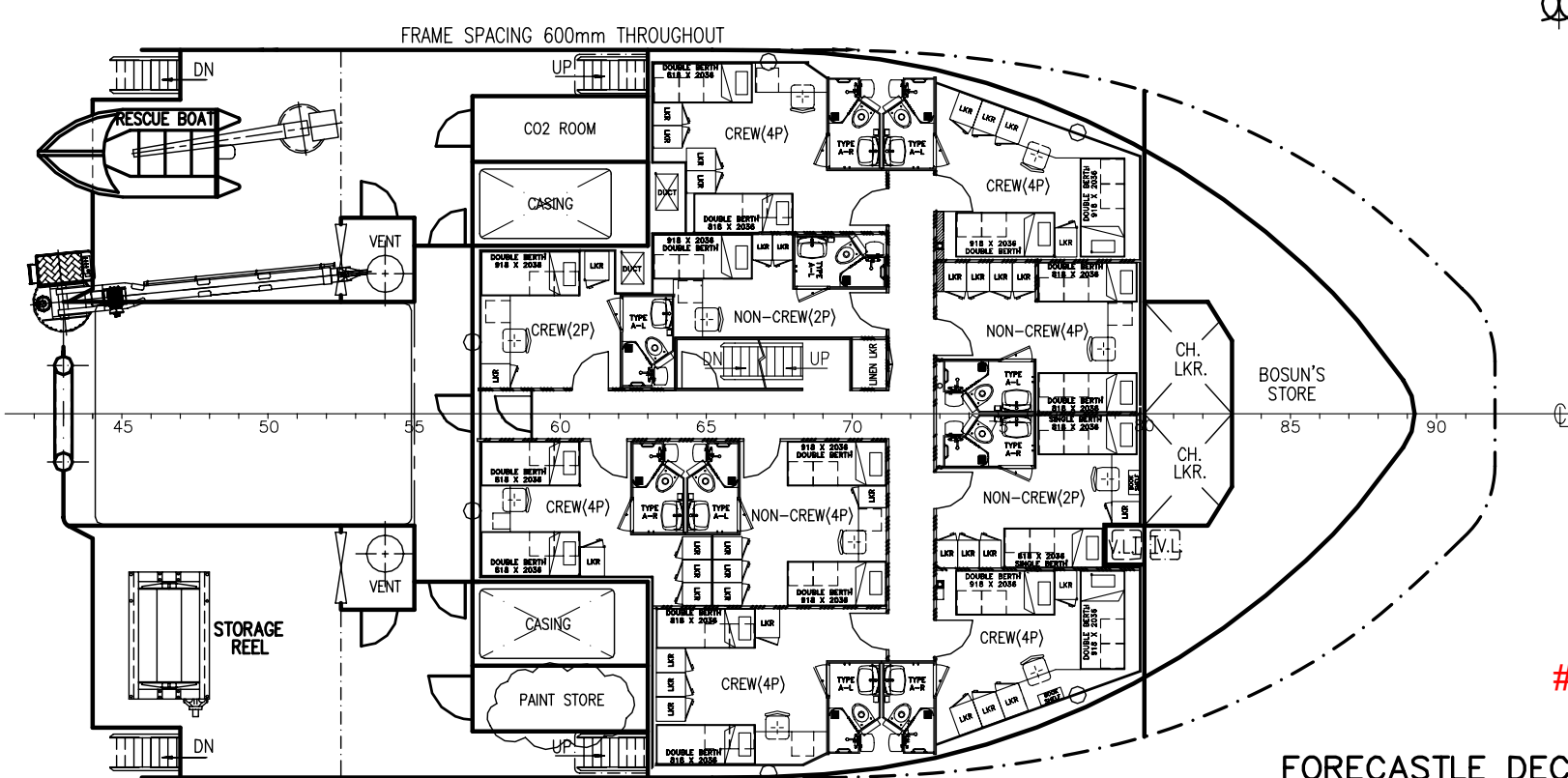
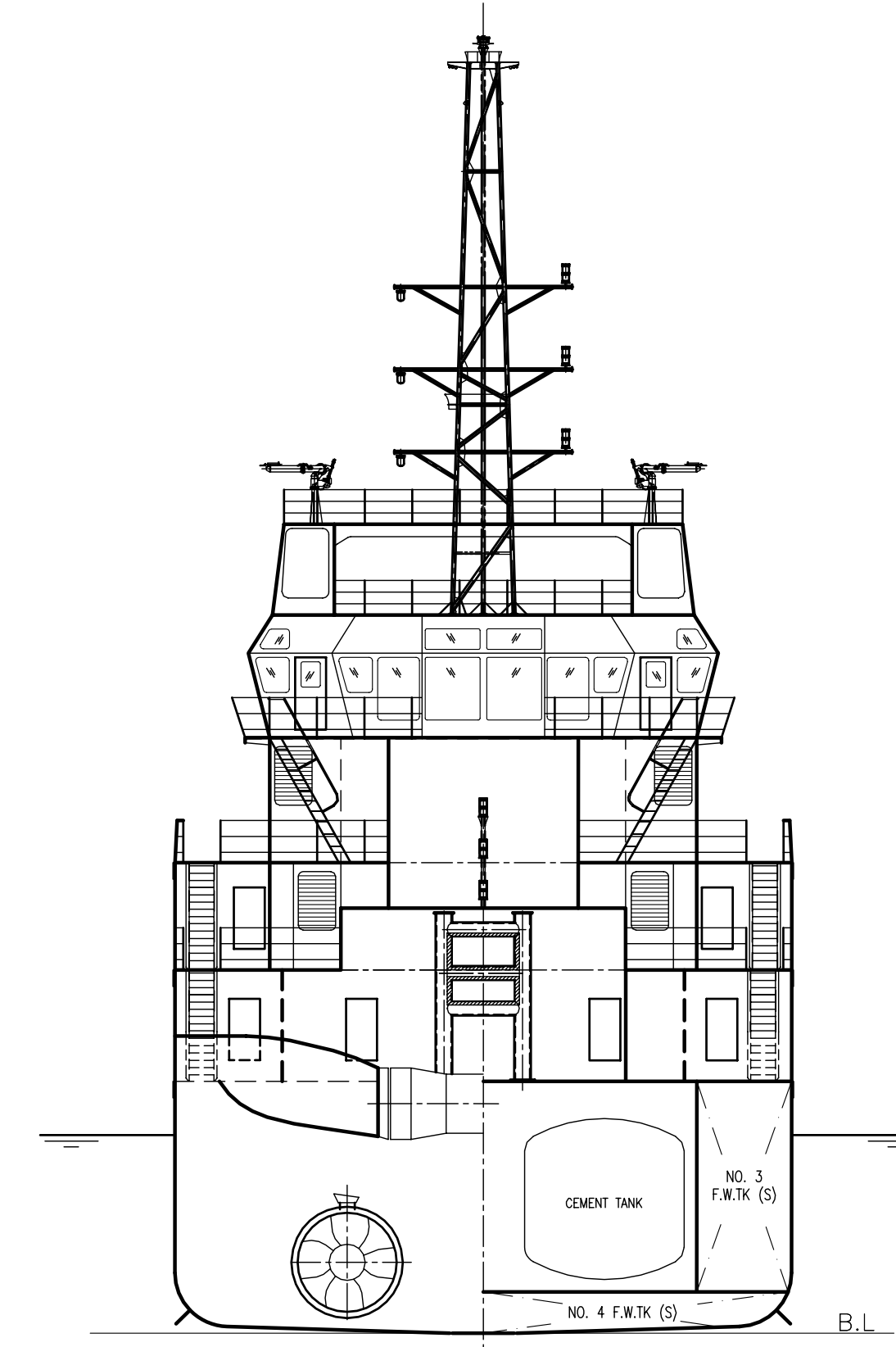
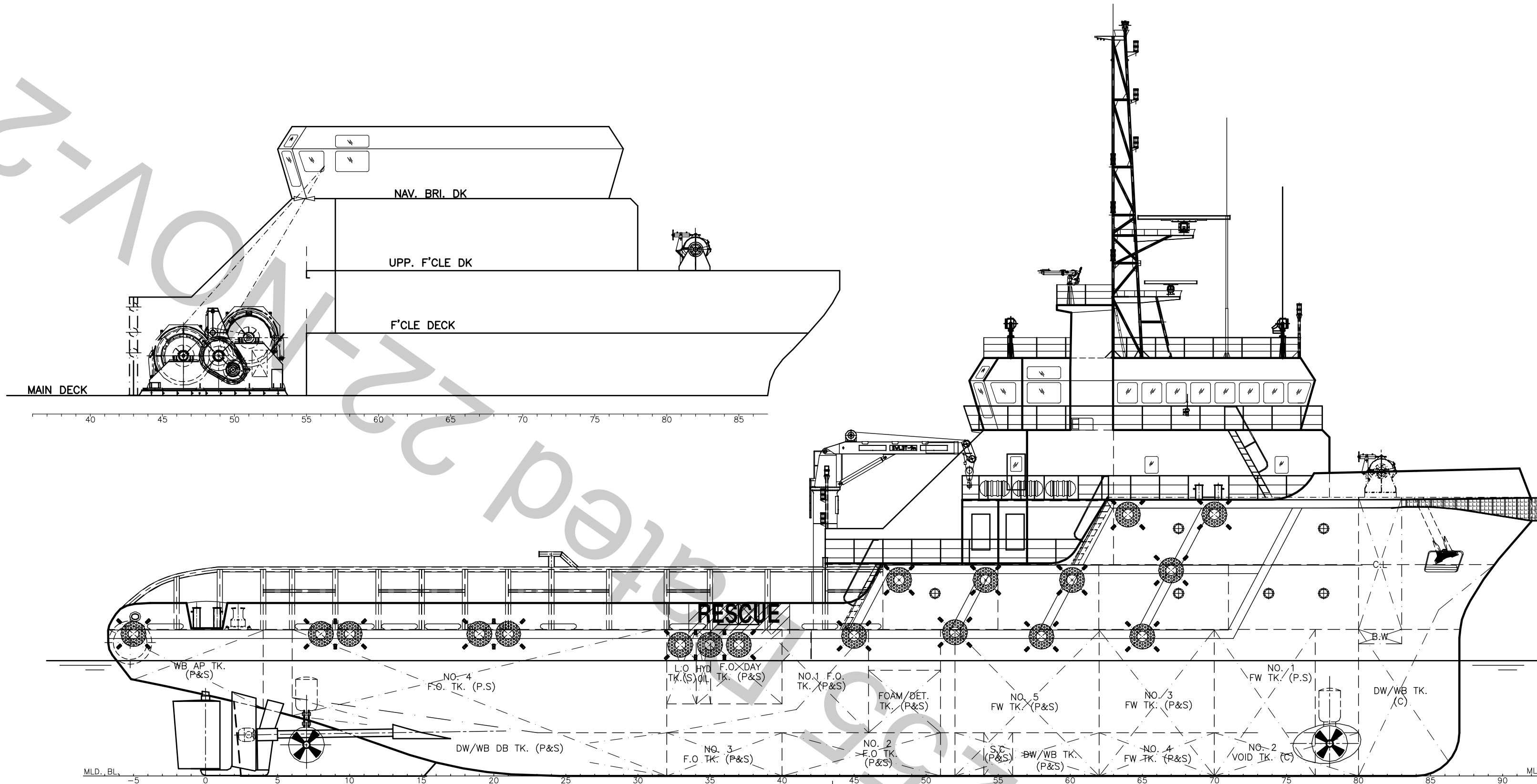
*Indicates tanks with shared capacity

Cargo Deck	
Parameter	Value
Clear Deck Area	340 m ²
Deck Dimensions	12 m x 28 m
Deck Cargo Capacity	500 t
Deck Strength	7 t m ⁻²
Reefer Points	6

Dynamic Positioning (DP) & Navigation Equipment	
Instrument	Model / Detail
DP Class	Class 1
Joystick	Kongsberg C-Joy
References	VRU
Radars	Furuno X-band 21" & 15"
GPS	Furuno GP-150
Echo Sounder	Furuno FE-702
Navtex	Furuno NX-700
Gyro Compass	Anschütz STD 22
Autopilot	Nautopilot NP-60

Communications Equipment	
Instrument	Model / Detail
HF Radio	Furuno RC-1500-1T 400 W
VHF Radios	2 x Furuno
Portable VHF	3 x Furuno
Satellite Communications	VSAT (voice & fax)
EPIRB	McMurdo 406 MHz
GMDSS Compliance	Area A3

Fire-Fighting & Rescue	
Equipment	Capacity / Rating
Firefighting System	FiFi-1
FiFi Pumps	2 x 1,200 m ³ h ⁻¹
Fire Monitors	2 units
Spray Booms	2 units
Throw x Height	120 m x 50 m
Foam Capacity	13 m ³
Rescue Boat	6 men, 15 HP OBM
Life Rafts	6 units, 150 person total



PRINCIPAL DIMENSIONS

LENGTH (O.A.)	59.250 M
LENGTH (W.L.)	56.000 M
LENGTH (B.P.)	52.200 M
BEAM (MLD.)	14.950 M
DEPTH (MLD.)	6.100 M
DESIGN DRAFT	4.950 M
FUEL OIL	540 M ³
FRESH WATER	300 M ³
DRILL WATER / W.B.	400 M ³
MUD	385 M ³
CLEAR DECK AREA	320 M ²
DECK CARGO (DECK LOADING = 7.5T/M ²)	500 TONS
DRY BULK TANKS (4x1650 FT ³)	187 M ³
MAIN PROPULSION ENGINE	2 X 2575 BHP
SPEED (TRIALS)	13.0 KNOTS
BOLLARD PULL	62 TONS
COMPLEMENT	40 MEN
CREW	28 MEN
NON-CREW	12 MEN
CLASS & NOTATION : ABS * A1 E ^C TOWING VESSEL, FIRE FIGHTING VESSEL CLASS 1, OFFSHORE SUPPORT VESSEL" /A/	
+ AMS + DPS-1	

AMENDED BY ABS



See Comment L-008, S-003, S-004, S007 & S-009

5	AMENDED AS PER YARD'S COMMENTS	SZ.YU	06.09.11
4	AMENDED BY KCM HULL TEAM	JUN.XIE	15.07.11
3	AMENDED AS PER YARD'S COMMENTS	SZ.YU	07.07.11
2	MAST TO BE UPDATE.	SZ.YU	21.02.11
1	AMENDED AS PER YARD'S COMMENTS	SZ.YU	03.12.10
ITEM	DETAILS OF MODIFICATION	BY	DATE
CONSULTANT			
PROJECT	59m MULTI-PURPOSE OFFSHORE SUPPLY/ ANCHOR HANDLING VESSEL		
TITLE	GENERAL ARRANGEMENT		
CLASSIFICATION	HULL NO. DMS9M-97/98/99		
DRAWN	CHECKED	SCALE	DRAWING NUMBER
SZ.YU		1:150	KCM/Q331(E)-G1
22-11-10			9

THIS DOCUMENT AND THE INFORMATION IT CONTAIN IS COPYRIGHT AND REMAINS THE PROPERTY OF KHIAM CHUAN MARINE PTE LTD. IT IS NOT TO BE COPIED IN WHOLE OR IN PART OR DISCLOSED TO ANY THIRD PARTY FOR ANY PURPOSE WHATSOEVER WITHOUT PRIOR WRITTEN CONSENT.