

PLAN HISTORY

REV. No.	DATE	DESCRIPTION	REMARK
R0	2023.03.06	PREPARED BY OUTFITTING DESIGN TEAM	

(5) SHEETS WITH A COVER

본 도면은 대한민국 정부의 "친환경중소형선박 기술 역량 강화사업"의 일환으로 작성된 문서입니다.

MANAGER	<i>K.D.OK</i>	DATE : 2023. 03. 06.	SCALE
APPROVED	<i>S.S.SHIN</i>	METHANOL FUELED 13 K CLASS CHEMICAL TANKER	1 / 100
CHECKED	<i>S.S.SHIN</i>	PRELIMINARY MOORING ARRANGEMENT	TEAM
DRAWN	<i>B.J.SANG</i>		OUTFITTING DESIGN
TEL. NO.	<i>051-260-7846</i>		REV. 00



친함경선박설계기술사업단
ECO-FRIENDLY SHIP DESIGN ENGINEERING

AA. SHIP'S PRINCIPAL PARTICULARS

1	LENGTH O. A.	ABOUT129.90 m
2	LENGTH B. P.	122.00 m
3	BREADTH (MOULDED)	21.00 m
4	DEPTH (MOULDED)	11.80 m
5	DESIGN & SCANTLING DRAFT	8.55 m
6	DWT @ SCANTLING DRAFT	ABOUT13,000 MT
7	APPLIED RULE & REGULATIONS / REFERENCES	- CLASS RULE - OCIMF MOORING EQUIPMENT GUIDELINES (MEG4) - PANAMA CANAL VESSEL REQUIREMENTS - GENERAL ARRANGEMENT - EQUIPMENT NUMBER CALCULATION - OUTLINE SPECIFICATION

BB. DESIGN APPLICATION FOR SHIPBOARD FITTINGS

1	EQUIPMENT NUMBER (EN)	about1,592 [1570 ~ 1670]
2	MOORING LINES BASED ON EN CALCULATION - MBLSD (Ship Design Minimum Breaking Load) - Number - Length - SWL (Safety Working Load) for mooring fittings = MBLSD	362 kN 5 lines 190 m 362 kN
3	TOWING LINE BASED ON EN - MBLSD (Ship Design Minimum Breaking Load) - Length - TOW (Safety Towing Load) for Towing fittings = MBL X 0.8	941 kN 220 m 752.8 kN
4	DESIGN LOAD (P) APPLICATION FOR HULL REINFORCEMENT - For Mooring fittings: P = SWL X 1.15 - For Towing fittings: P = TOW X 1.25	416.3 kN 941.0 kN

CC. LIST OF MOORING EQUIPMENT

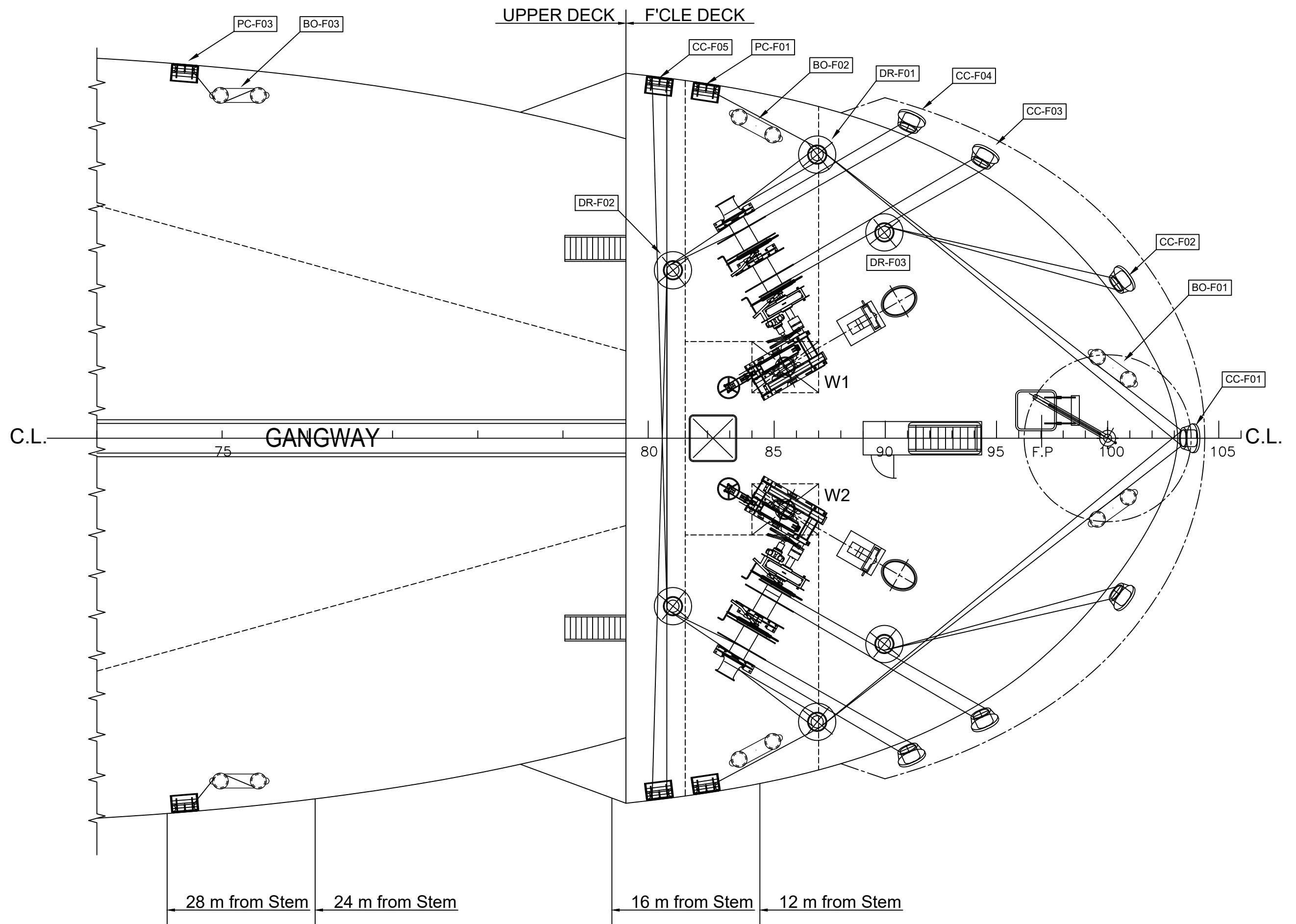
SYMBOL	EQUIPMENT	SPECIFICATION	Q'TY
W1, W2	WINDLASS COMBINED WITH MOORING WINCH	14.2 TON X 9 M/MIN, 10.0 TON X 15 M/MIN	2
M1, M2	MOORING WINCH	10.0 TON X 15 M/MIN	2
-	MOORING LINE	UHMPWE, Dia. 40 mm X 190 m	8
-	TOWING LINE	IWRC (6x37)	1

Note: The specification of mooring/towing lines could be adjusted acc. to Builder's standard.

DD. LIST OF MOORING FITTINGS

SYMBOL	FITTING NAME	SIZE (MM)	Q'TY	LOCATION	PURPOSES
CC-F01	CLOSED CHOCK	500 X 250	1	F'CLE DK	MOORING / TOWING / PANAMA CANAL TRANSIT
CC-F02	CLOSED CHOCK	300 X 250	2	F'CLE DK	MOORING
CC-F03	CLOSED CHOCK	300 X 250	2	F'CLE DK	MOORING
CC-F04	CLOSED CHOCK	300 X 250	2	F'CLE DK	MOORING
PC-F01	PANAMA CHOCK	355 X 255	2	F'CLE DK	MOORING / PANAMA CANAL TRANSIT
CC-F05	CLOSED CHOCK	300 X 250	2	F'CLE DK	MOORING
PC-F02	PANAMA CHOCK	305 X 230	2	UPP. DK FWD	MOORING / PANAMA CANAL TRANSIT
BO-F01	BOLLARD	DIA. 350	2	F'CLE DK	MOORING / TOWING / PANAMA CANAL TRANSIT
BO-F02	BOLLARD	DIA. 300	2	F'CLE DK	MOORING / PANAMA CANAL TRANSIT
BO-F03	BOLLARD	DIA. 300	2	UPP. DK FWD	MOORING / PANAMA CANAL TRANSIT
DR-F01	DECK STAND ROLLER	DIA. 300	2	F'CLE DK	MOORING / PANAMA CANAL
DR-F02	DECK STAND ROLLER	DIA. 300	2	F'CLE DK	MOORING
DR-F03	DECK STAND ROLLER	DIA. 300	2	F'CLE DK	MOORING
CC-A01	CLOSED CHOCK	500 X 250	1	POOP DK	MOORING / TOWING / PANAMA CANAL TRANSIT
CC-A02	CLOSED CHOCK	300 X 250	2	POOP DK	MOORING
CC-A03	CLOSED CHOCK	300 X 250	2	POOP DK	MOORING
CC-A04	CLOSED CHOCK	300 X 250	2	POOP DK	MOORING
CC-A05	CLOSED CHOCK	300 X 250	2	POOP DK	MOORING
PC-A01	PANAMA CHOCK	355 X 255	2	POOP DK	MOORING / PANAMA CANAL TRANSIT
CC-A06	CLOSED CHOCK	300 X 250	2	POOP DK	MOORING
BO-A01	BOLLARD	DIA. 350	2	POOP DK	MOORING / TOWING / PANAMA CANAL TRANSIT
BO-A02	BOLLARD	DIA. 300	2	POOP DK	MOORING / PANAMA CANAL TRANSIT
BO-A03	BOLLARD	DIA. 300	2	POOP DK	MOORING

Note: The size of mooring fittings could be adjusted acc. to Builder's standard.

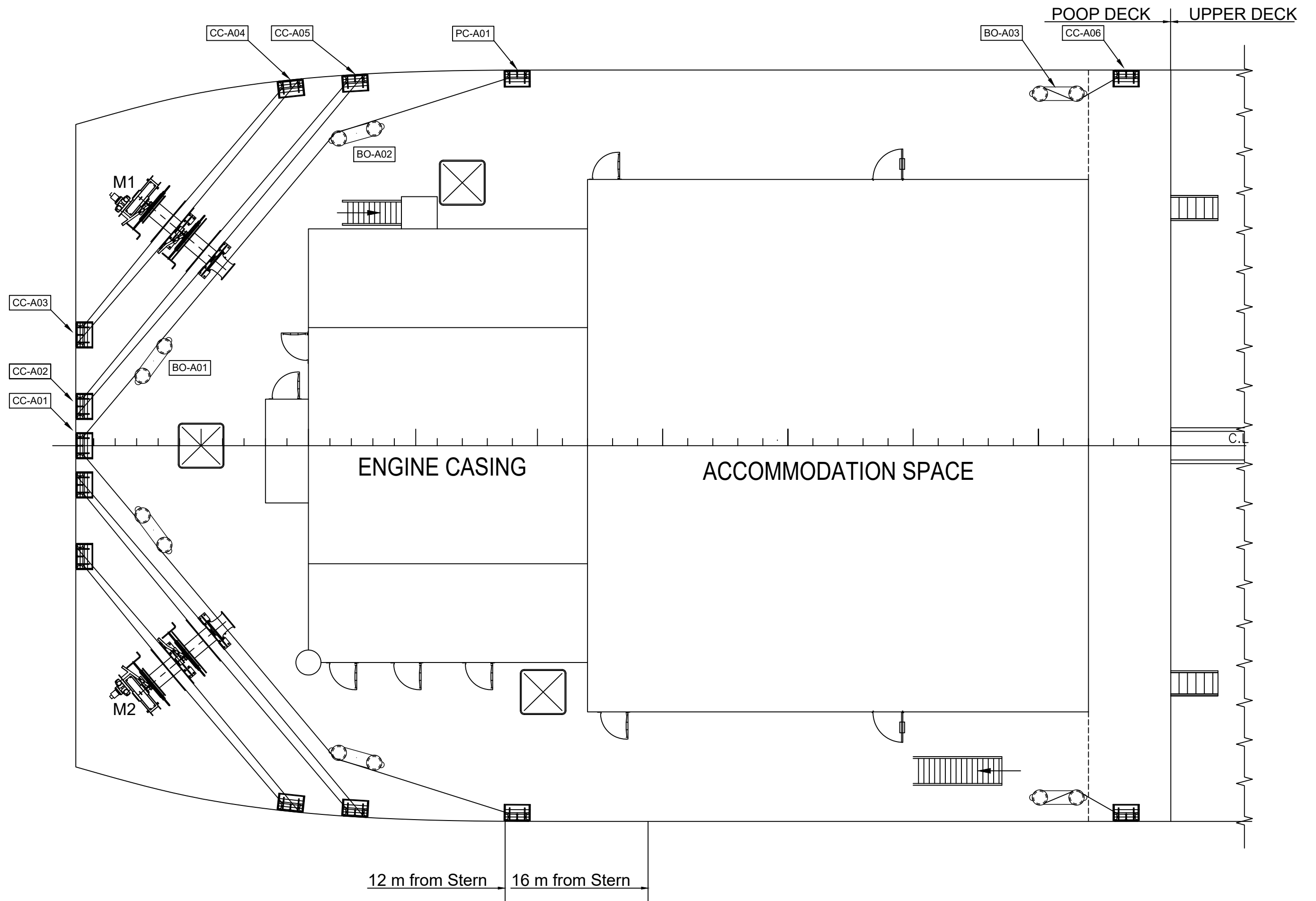




PRE - MOORING ARR'T (AFT)

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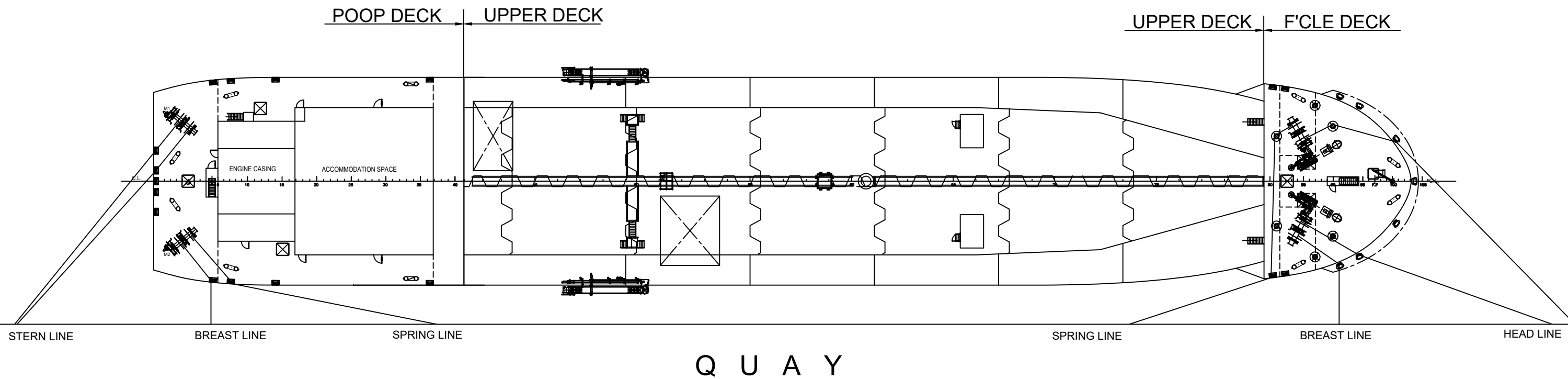
PROJECT : 13 K CLASS PRODUCT/ CHEMICAL TANKER





SCHEMATIC MOORING LAYOUT

IN CASE OF ST'BD ALONGSIDE



SHIP'S PARTICULARS

L.O.A	:	about 129.90 m
L.B.P	:	122.00 m
B (Moulded)	:	21.00 m
D (Moulded)	:	11.80 m
Ts	:	8.55 m
DWT@Ts	:	about 13,000 MT