

DRAWING HISTORY

REV. NO.	DATE	DESCRIPTION	REMARK
0	2024.11.28.	ISSUED FOR APPROVAL.	
0	2025.02.14.	KOMSA 승인 도면 필 함.	
1	2025.04.03.	ISSUED FOR OWNER APPROVAL.	

TOTAL (11) SHEETS WITH A COVER.

OWNER  여수시	BUILDER Shico 영창중공업(주)
APP. BY J.S.KANG	SHIP TYPE G/T 119 톤급 다목적 관공선
CHK' BY J.H.LIM	TITLE
CHK' BY Y.J.JOO	화재 탐지 및 경보 장치 계통도
DWN. BY A.J.WILARTO	
Shico 영창중공업 주식회사 Youngchang Heavy Ind.Co.,Ltd. TEL : 061-275-8100 / FAX : 061-275-8101 전남 신안군 지도읍 두류산길 377-111	HULL. NO. H-1017 SHIP NAME - DWG. NO. OE-006
	DATE 2025.04.03.
	SCALE NONE
	CLASS KOMSA
	REV. NO. 1

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DETAIL DRAWING HISTORY

PAGE

A

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REV. NO.

REVISED BY

ABB.

REVISED BY



FIRST DRAWING

O

OWNER COMMENT



REVIEWED DRAWING

C

CLASS COMMENT



FINAL DRAWING

S

SHIP YARD'S COMMENT

M

MAKER'S RECOMMENDATION

D

DESIGN IMPROVEMENT

DM

DESIGN MISTAKE

DATE

REV. NO.

REV. BY

PAGE

DESCRIPTION

2024.11.28 0 ISSUED FOR APPROVAL DWG.

2025.02.14 0 KOMSA 승인 도면 필 함.

2025.04.03 1 ISSUED FOR OWNER APPROVAL.



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GENERAL NOTE

1. RULE AND REGULATION : KOMSA

2. SHIP'S FLAG : KOREA

3. EXPLANATION OF CABLE MARKING

1)	<u>T1</u> P0000	YARD'S SUPPLY / CONNECTION CABLE
2)	<u>-T1-</u> P0000	USED CABLE IN OTHER SYSTEM
3)	<u>*</u>	MAKER'S SUPPLY / CONNECTION CABLE
4)	<u>-*-</u>	INTER-WIRING OR MAKER WORKS & SUPPLY (INNER CONNECTION OR FITTING ON EQUIP BODY)
5)	<u>T1(IS)</u>	INTRINSICALLY SAFT TYPE CABLE - INTRINSICALLY SAFT CIRCUITS ARE TO BE MARKED WITH (IS) ON THE DRAWING (TOGETHER WITH CABLE TYPE), AND THESE CIRCUITS ARE TO BE SEPARATED (50MM) FROM ANY OTHER NORMAL CABLES.

4. CIRCUIT DESIGNATION

EX) P 01 01		SYSTEM TITLE
CIRCUIT NO.	P	E.W.D OF POWER SYSTEM
PAGE NO.	L	E.W.D OF LIGHTING SYSTME
SYSTEM TITLE	C	E.W.D OF CONTROL SYSTEM
	F	CABLE DIA. OF ARR'T OF FIRE DET. & ALARM SYS.
	A	ARR'T OF ELEC. EQUIPMENT
	N	E.W.D OF RADIO, INTER-COM & NAUTICAL SYS.
	S	ARR'T OF NAV. & SIGNAL LIGHT

5. THE NUMBER ABOVE THE SYMBOL OF CIRCUIT BREAKER SHOWS THE FRAME SIZE AND
SETTING CURRENT OF THE CIRCUIT BREAKER.

EX) 100/60

100 : FRAME SIZE (100A)

60 : SETTING CURRENT (60A)

INST : INSTANTANEOUS TRIP ONLY IF INDICATED

6. THE WIRING DIAGRAM SHOWS THE KIND OF CABLE CONDUCTOR SIZE, AMPERE RATING AND
THE PROTECTIVE DEVICES FOR THE POWER CIRCUITS.7. THE AIR CIRCUIT BREAKERS OF GENERATORS ARE SO INTERLOCKED AS NOT TO OPERATE
IN PARALLEL WITH SHORE SUPPLY AND SPACE HEATERS OF GENERATOR ALSO.8. THE 2-POLE MOULDED CASE CIRCUIT BREAKERS ARE USED FOR THE SINGLE PHASE CIRCUIT AND
ARE SHOWN BY THE MARK OF "2P" UNDER THE MARK OF MOULDED CASE CIRCUIT BREAKERS,
THE 3-POLE MOULDED CASE CIRCUIT BREAKERS ARE USED FOR THE THREE PHASE CIRCUITS
AND ARE SHOWN WITHOUT ANY MARK.

9. CABLE APPLICATION

- 1) ALL ELECTRIC CABLES TO BE JIS C3410-1999 (JAPANESE INDUSTRIAL STANDARD)
OF TYPE APPROVED BY CLASSIFICATION SOCIETY.
- 2) THE POWER CABLES HAVING NOMINAL OUT-DIAEATER 30MM (TPYC-50) AND ABOVE ARE
TO BE INSTALLED WITH NO MORE THAN SIX(6) CABLES BUNCHED OR LAID TOGETHER
IN FLAT FORMATION.
- 3) THE CABLE SPECIFICATION FOR THE CIRCUIT OF DOTTED LINE SHALL BE SEEN IN OTHER
DRAWINGS OR OTHER PAGE.
- 4) THE CABLE SPECIFICATION ON THIS DRAWING ARE SYMBOLIZED AS SHOWN ON NEXT PAGE.

10. CABLE LEGEND

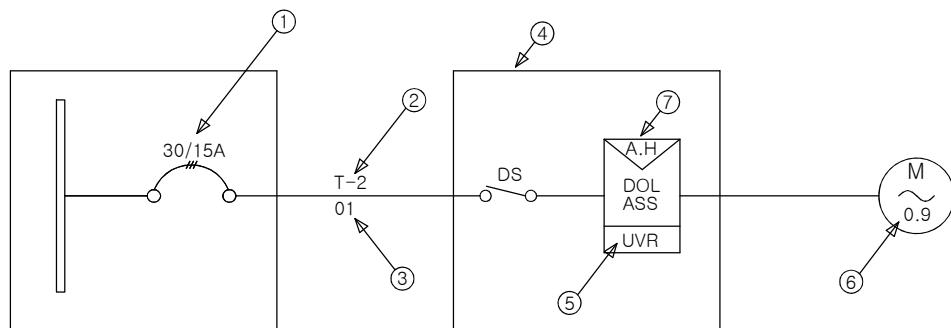
F	T	P	Y	C	(Y)	(S)	(C)	-	1.5	(S)	(FA)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)	(11)

(1)	FIRE RESISTANT (IEC 60331)			
(2)	NUMBER OF CORE		CORE	
			S	SINGLE
			D	DOUBLE
			T	THREE
			F	FOUR
			M	MULTI
			TT	TELEPHONE
(3)	EP RUBBER INSULATION OR EP RUBBER INSULATION / MICA GLASS TYPE ("F" CABLE)		INSULATION	
			P	EP RUBBER
			SR	SILICONE RUBBER
			Y	PVC
(4)	PVC SHEATH		SHEATH	
			N	PCP
			Y	PVC
(5)	STEEL WIRE BRAID		ARMOUR	
			C	STEEL WIRE BRAID
			B	COPPER WIRE BRAID
(6)	PVC PROTECTIVE COVER		PROTECTION COVER	
			Y	PVC
(7)	COMMON SHIELD		OTHER WISE	
(8)	-30°C COLD RESISTANT TYPE		S	COMMON SHIELD
(9)	CONDUCTOR SIZE (SQ MM)		-S	INDIVIDUAL SHIELD
(10)	INDIVIDUAL OR PAIR SHIELD		E	EARTH CONDUCTOR
(11)	FLAME RETARDANT (IEC 6033E-3 CASE "AF")		C	COLD CABLE (-30°C)
			RG	RADIO GUIDANCE

11. RATED VOLTAGE OF CABLE

CABLE TYPE	NOMINAL SECTION AREA	RATED VOLTAGE
TT TYPE	0.75 MM ²	250V
M TYPE	1.0 MM ²	
ALL CABLES OTHER THAN ABOVE		0.6/1KV

12. CIRCUIT SYMBOL



- ① : MOULDED CASE CIRCUIT BRAKER
- ② : CABLE TYPE
- ③ : CIRCUIT NUMBER
- ④ : STARTER WITH DISCONNECTING SWITCH AND CONTROL UNIT
- ⑤ : STARTING FUNCTION

DOL : DIRECT ON LINE STARTING

Y-D : STAR-DELTA STARTING

A-T : AUTO TRANSFORMER STARTING

SSR : SOFT STARTING

UVR : UNDER VOLTAGE RELEASE

UVP : UNDER VOLTAGE PROTECTION

REV : REVERSIBLE

A-M : AUTO / MANUAL

ASS : AUTO START / STOP

ACVP : AUTO CHANGE OVER BY LOW VOLTAGE & LOW PRESSURE

- ⑥ : MOTOR RATINGS (KW)
- ⑦ : A OR A.H : AMMETER OR AMMETER RUNNING HOUR METER



CABLE SPECIFICATION (1/2)

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1. STANDARD CABLE LIST

S P Y C (Y) (S)										M P Y C (Y) (S)									
NO.	SYMBOL	CABLE TYPE	AME. TEMP 45°C DEG/C		"C" TYPE		"Y" TYPE		NO.	SYMBOL	CABLE TYPE	AME. TEMP 45°C DEG/C		"C" TYPE		"Y" TYPE			
			100%	85%	O.D	GRAND	O.D	GRAND				100%	85%	O.D	GRAND	O.D	GRAND		
01	S(Y)(S)1	SPYC(Y)(S)-1.5	20	17	7.2	10b	9.0	15a	01	M(Y)(S)2	MPYC(Y)(S)-2	14	11	10.0	15c	12.0	20b		
02	S(Y)(S)2.5	SPYC(Y)(S)-2.5	28	23.8	7.6	10b	9.4	15b	02	M(Y)(S)4	MPYC(Y)(S)-4	11	9	11.2	20a	132	20c		
03	S(Y)(S)4	SPYC(Y)(S)-4	38	32.3	8.2	15a	10.0	15b	03	M(Y)(S)7	MPYC(Y)(S)-7	9	7	13.2	20c	15.2	25a		
04	S(Y)(S)6	SPYC(Y)(S)-6	48	40.8	8.7	15a	10.5	15c	04	M(Y)(S)12	MPYC(Y)(S)-12	7	7	16.8	25b	19.0	25c		
05	S(Y)(S)10	SPYC(Y)(S)-10	67	56.9	9.9	15b	11.7	20a	05	M(Y)(S)19	MPYC(Y)(S)-19	6	5	19.6	25c	22.0	30b		
06	S(Y)(S)16	SPYC(Y)(S)-16	90	76.5	10.9	15c	12.9	20b	06	M(Y)(S)27	MPYC(Y)(S)-27	5	4	23.4	30b	26.0	30c		
07	S(Y)(S)25	SPYC(Y)(S)-25	120	102	12.8	20b	14.8	20c	07	M(Y)(S)37	MPYC(Y)(S)-37	4	3	26.1	35a	28.9	35b		
08	S(Y)(S)35	SPYC(Y)(S)-35	145	123.2	14.0	20c	16.2	25b	08	M(Y)(S)44	MPYC(Y)(S)-44	3	2	29.3	35b	32.1	40b		
09	S(Y)(S)50	SPYC(Y)(S)-50	180	153.0	15.9	25a	18.1	25c	09										
10	S(Y)(C)(S)70	SPYC(Y)(C)(S)-70	225	191.1	18.5	25c	20.9	30a	10										
11	S(Y)(C)(S)95	SPYC(Y)(C)(S)-95	275	233.7	23.0	30b	25.4	30c											
D P Y C (Y) (S)										T T Y C (Y) (S)									
NO.	SYMBOL	CABLE TYPE	AME. TEMP 45°C DEG/C		"S" TYPE		"Y" TYPE		NO.	SYMBOL	CABLE TYPE	AME. TEMP 45°C DEG/C		"S" TYPE		"Y" TYPE			
			100%	85%	O.D	GRAND	O.D	GRAND				100%	85%	O.D	GRAND	O.D	GRAND		
01	D(Y)(S)1	DPYC(Y)(S)-1.5	17	14.4	11.7	20a	13.7	20c	01	TT(Y)(S)1	TTYC(Y)(S)-1	-	-	10.1	15b	12.1	20a		
02	D(Y)(S)2	DPYC(Y)(S)-2.5	24	20.4	12.8	20b	14.8	20c	02	TT(Y)(S)1Q	TTYC(Y)(S)-1Q	-	-	11.3	20a	13.3	25a		
03	D(Y)(S)4	DPYC(Y)(S)-4	32	27.2	13.9	20c	15.9	25a	03	TT(Y)(S)4	TTYC(Y)(S)-4	-	-	16.3	25b	18.5	25c		
04	D(Y)(S)6	DPYC(Y)(S)-6	41	34	15.2	25a	17.4	25b	04	TT(Y)(S)7	TTYC(Y)(S)-7	-	-	19.0	25c	21.4	30a		
05	D(Y)(S)10	DPYC(Y)(S)-10	57	48.5	17.1	25b	19.3	25c	05	TT(Y)(S)10	TTYC(Y)(S)-10	-	-	24.1	30c	26.7	35a		
06	D(Y)(S)16	DPYC(Y)(S)-16	77	65.5	19.4	25c	21.8	30a	06	TT(Y)(S)14	TTYC(Y)(S)-14	-	-	25.7	30c	28.3	35b		
07	D(Y)(S)25	DPYC(Y)(S)-25	102	86.7	23.0	30b	25.6	30c											
08	D(Y)(S)35	DPYC(Y)(S)-35	123	104.5	25.5	30c	28.1	35b											
09	D(Y)(S)50	DPYC(Y)(S)-50	153	130.1	29.4	35b	32.2	40b	01	TT(Y)4(S)	TTYC(Y)-4(S)			18.7	25c	21.1	30a		
T P Y C (Y) (S)										02	TT(Y)7(S)	TTYC(Y)-7(S)	-	-	22.2	30b	24.8	30c	
NO.	SYMBOL	CABLE TYPE	AME. TEMP 45°C DEG/C		"S" TYPE		"Y" TYPE		NO.	SYMBOL	CABLE TYPE	AME. TEMP 45°C DEG/C		"S" TYPE		"Y" TYPE			
			100%	85%	O.D	GRAND	O.D	GRAND				100%	85%	O.D	GRAND	O.D	GRAND		
01	T(Y)(S)1	TPYC(Y)(S)-1.5	14	11.9	12.5	20b	14.5	25a	04	TT(Y)14(S)	TTYC(Y)-14(S)	-	-	31.5	40a	34.5	45a		
02	T(Y)(S)2	TPYC(Y)(S)-2.5	20	17	13.5	20c	15.5	25b											
03	T(Y)(S)4	TPYC(Y)(S)-4	27	22.9	14.7	25a	16.9	25b											
04	T(Y)(S)6	TPYC(Y)(C)(S)-6	34	28.9	16.4	25a	18.3	25c											
05	T(Y)(S)10	TPYC(Y)(S)-10	47	39.9	18.3	25c	20.7	30a	01	D(Y)E1	DPYC(Y)E-1.5	17A	14A	12.5	20B	14.5	20c		
06	T(Y)(S)16	TPYC(Y)(S)-16	63	53.5	20.8	30a	23.2	30c	02	D(Y)E2	DPYC(Y)E-2.5	24A	20A	13.5	20C	15.5	25A		
07	T(Y)(S)25	TPYC(Y)(S)-25	84	71.4	24.7	30c	27.3	35a	03	DPYE2	DPYE-2.5			12.2	10b				
08	T(Y)(S)35	TPYC(Y)(S)-35	102	86.7	27.4	35a	30.2	40a											
09	T(Y)(S)50	TPYC(Y)(S)-50	126	107.1	32.0	40a	35.0	45a											
10	T(Y)(S)70	TPYC(Y)(S)-70	158	134.3	37.6	45b	41.0	50a											
11	T(Y)(S)95	TPYC(Y)(S)-95	193	164.1	41.9	50a	45.5	55b	01	T(Y)E1	TPYC(Y)E-1.5	14A	11A						
12	T(Y)(S)120	TPYC(Y)(S)-120	224	190.4	45.8	55a	49.6	60a	02	T(Y)E2	TPYC(Y)E-2.5	20A	17A						
13	T(Y)(S)150	TPYC(Y)(S)-150	256	217.6	50.2	60a	54.2	60b											



CABLE SPECIFICATION (2/2)

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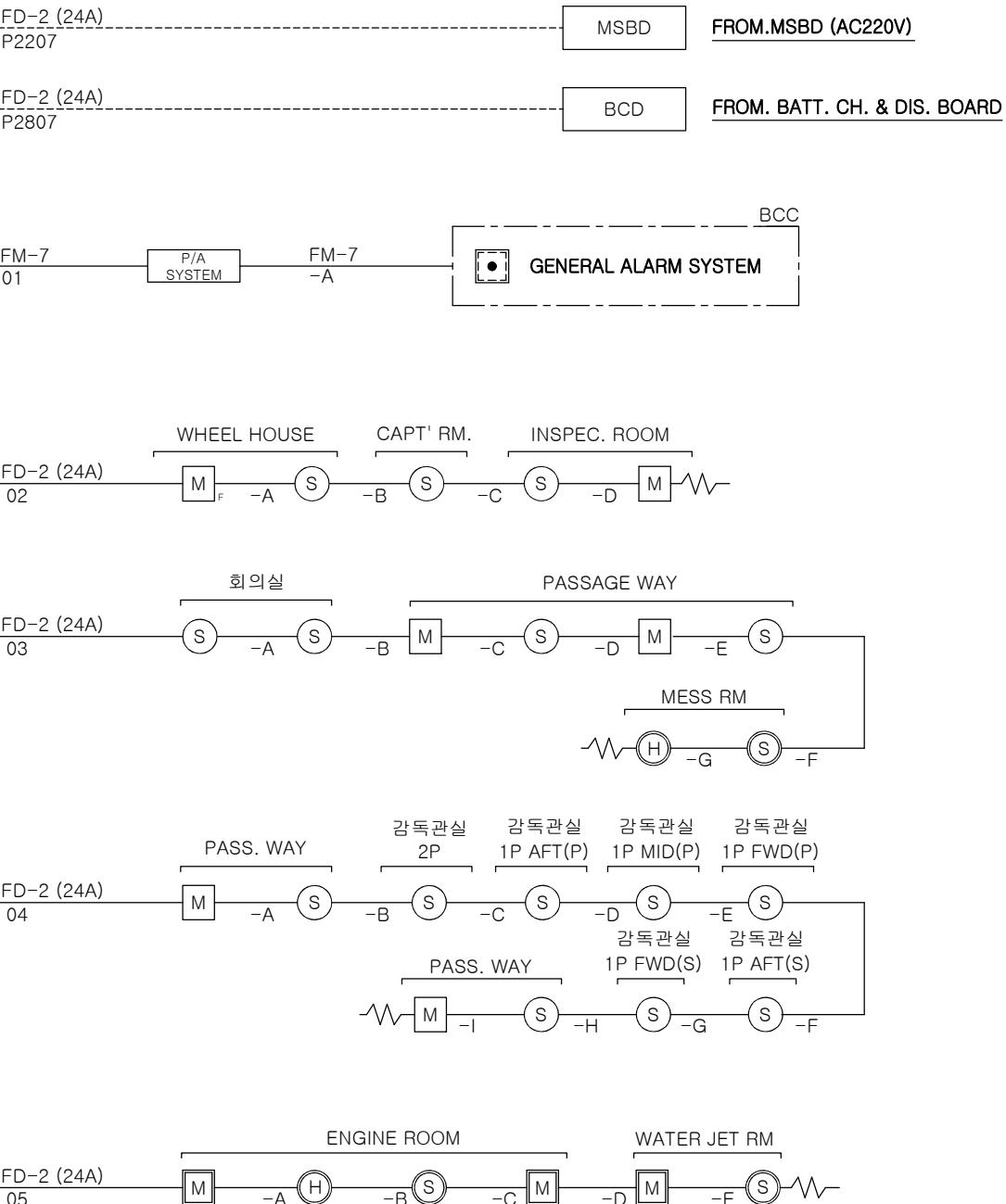
ETC. CABLE LIST

2. FIRE RETARDANT / FIRE RESISTING CABLE LIST

NO.	SYMBOL	DESCRIPTION	ACCOMMODATION						BOTTOM	TOTAL Q'TY			
			WHEEL HOUSE	INSPEC RM.	CAPT' RM.	CONF. RM.	UPP.DK. PASSAGE	MESS RM.	ENG RM. ENT.	BOTT.DK. PASSAGE	CREW'S RM	ENG. RM.	S/G RM.
1	(S)	OPTICAL SMOKE DETECTOR (NON WEATHER PROOF)		1	1	1	1	2		2	6		14
2	(S)	OPTICAL SMOKE DETECTOR (WEATHER PROOF)						1				1	3
3	(S) _{Ex}	EXPLOSION SMOKE DETECTOR(EX TYPE)											
4	(H)	HEAT DETECTOR(N.W.T)										1	2
5	(H)	HEAT DETECTOR(W.T)							1				2
6	[M]	MANUAL CALL POINT (NON WEATHER PROOF)				1				2			5
7	[M] _F	MANUAL CALL POINT (FLUSH TYPE) (NON WEATHER PROOF)				1							1
8	[M]	MANUAL CALL POINT (WEATHER PROOF)								1			1
9	[M] _{Ex}	INTRINSICALLY SAFE MANUAL CALL POINT (W.T SURFACE TYPE)											3
10	[●]	GENERAL EM'CY ALARM PUSH BUTTON (N.W.T CONSOLE MOUNT. TYPE)					1					1	1
11	[●]	GENERAL EM'CY ALARM PUSH BUTTON (W.T CONSOLE MOUNT. TYPE)											1
12	-VV-	END OF LINE RESISTOR					1			1		1	4
13		150Ω MAIN FIRE ALARM BELL WITH LAMP (W.T DC 24V)											
14		CONVENTIONAL FIRE CONTROL PANEL					1					1	
15													
16													
17													
18													

ALL CABLES ARE FIRE RESISTANT TYPE (FRDPYC-1.5) EXCEPT NOTED
작업시 MAKER DWG.을 확인 후 작업 할 것.

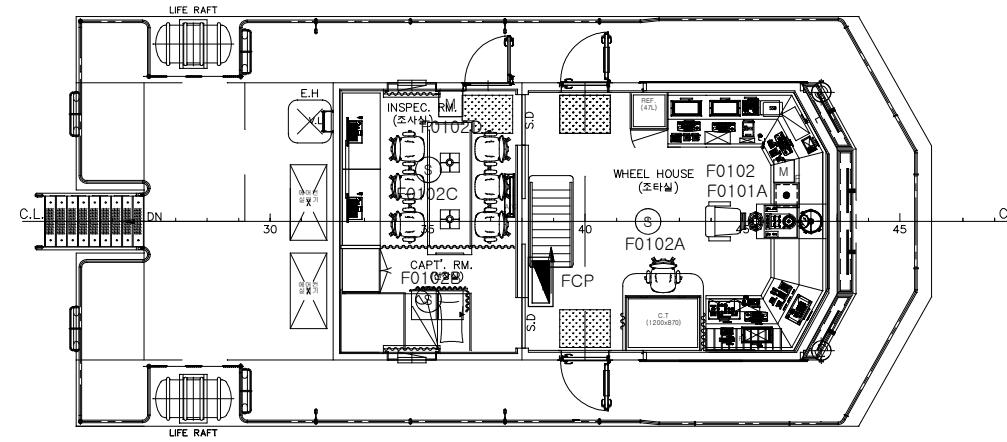
GENERAL ALARM & FIRE DETECTION CONTROL PANEL



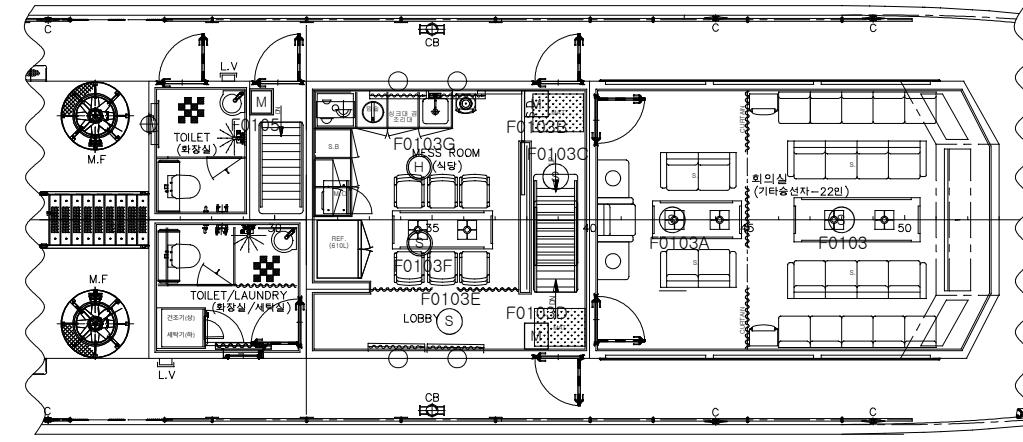
ARRANGEMENT OF FIRE DETECTION SYSTEM

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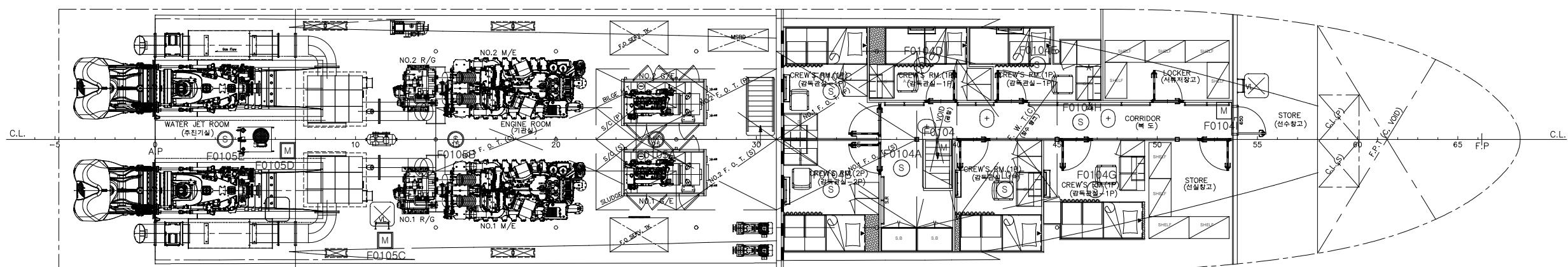
NAV. BRI. DECK PLAN



UPPER DECK PLAN



BOTTOM PLAN



NOTE
SMOKE D. RADIUS : 5500mm
HEAT D. RADIUS : 4500mm