

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 (36) 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 E.W.D OF RADIO, INTERCOM & NAUTICAL SYSTEM [항해 및 통신 계통도]			
CHK' BY Y.J.JOO				
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-003			
	DATE 2025.04.03.	SCALE NONE	CLASS KOMSA	REV. NO. 1

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DETAIL DRAWING HISTORY

PAGE

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DWG. NO

OE-004

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

2025.02.14. 0 KOMSA 승인 도면 필 함.

2025.04.03. 0 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

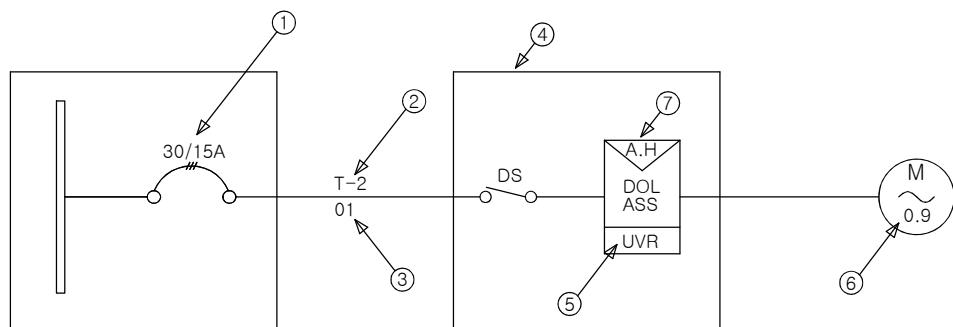
F	T	P	Y	C	(Y)	(S)	(C)	-	1.5	(S)	(FA)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)	(11)

(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



CABLE SPECIFICATION (2/2)

PAGE

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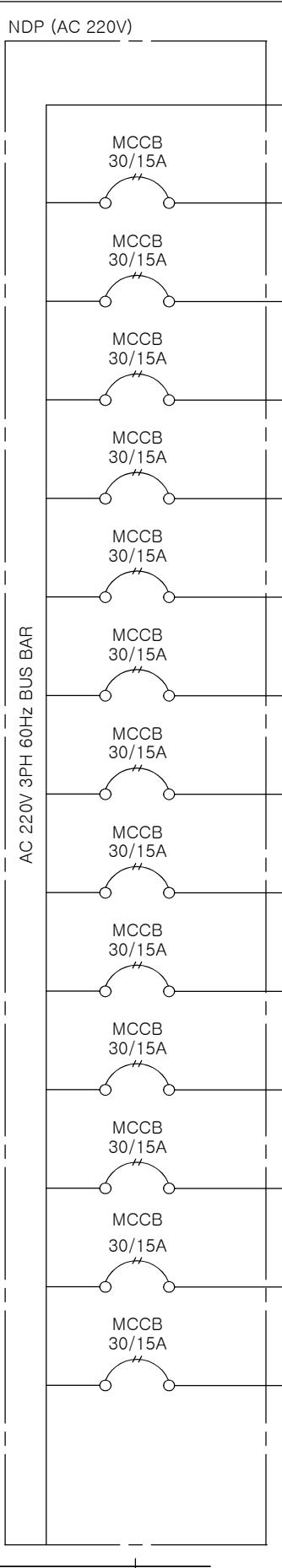
DWG. NO

OE-004

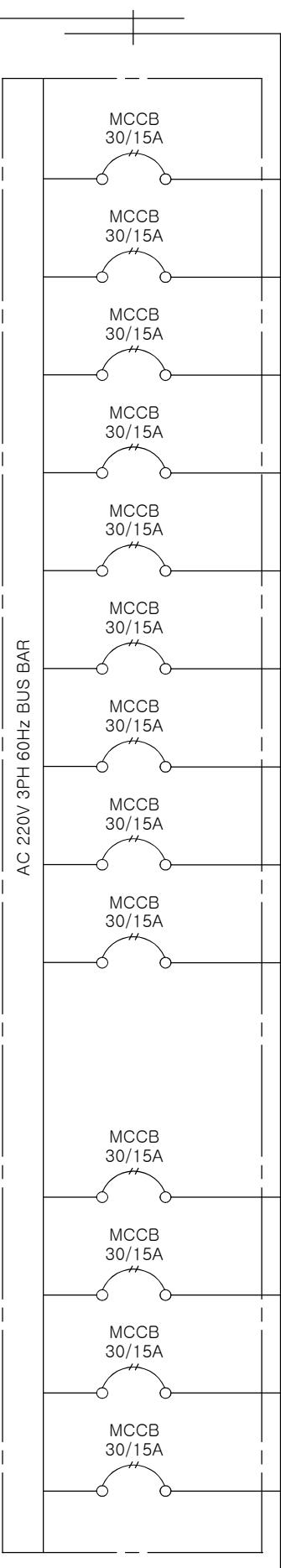
ETC. CABLE LIST

2. FIRE RETARDANT / FIRE RESISTING CABLE LIST

B.C.C



- T-10 P2202 - MSBD FROM MSBD (AC 220V)
- D-2 01 - AUTO PILOT (PAGE 12)
- D-2 02 - GYRO COMPASS (PAGE 13)
- D-2 03 - MARINE RADAR SYSTEM (PAGE 15)
- D-2 04 - NO.1 DGPS & PLOTTER (PAGE 16)
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- D-2 08 - A.I.S (PAGE 19)
- D-2 09 - ANEMOMETER & ANEMOSCOPE (PAGE 20)
- D-2 10 - ELECTRIC WHISTLE (PAGE 21)
- D-2 11 - PATROL WARNING LIGHT (PAGE 22)
- D-2 12 - WINDOW WIPER (PAGE 23)
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01

NO.1 VHF/DSC RADIO TEL.
(PAGE 24)

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02

NO.2 VHF/DSC RADIO TEL.
(PAGE 24)

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03

MTS TRANSCEIVER
(PAGE 25)

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04

E-NAVIGATION SYSTEM
(PAGE 26)

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05

V-PASS SYSTEM
(PAGE 28)

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06

PUBLIC ADDRESSOR SYSTEM
(PAGE 30)

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07

SATELLITE TV SYSTEM
(PAGE 32)

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08

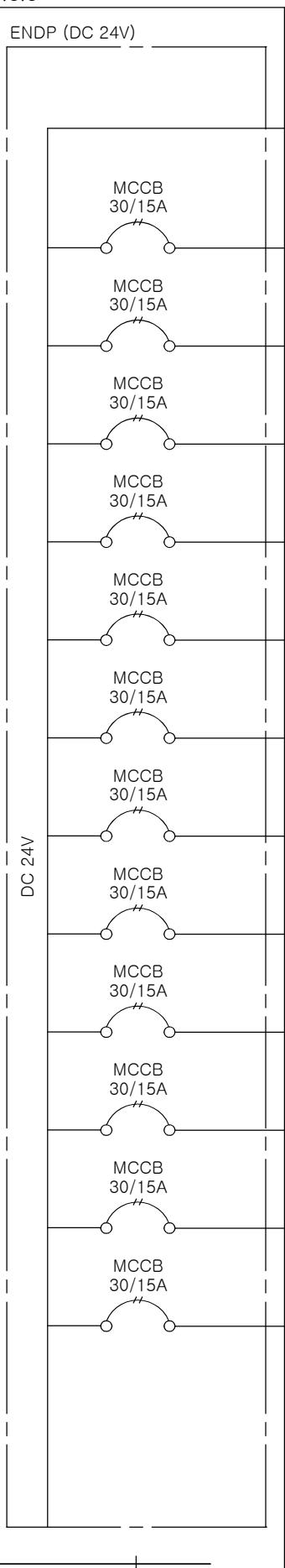
INTERNET EQUIPMENT
(PAGE 34)

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09

CCTV SYSTEM
(PAGE 35)SPARESPARESPARESPARE

B.C.C

D-6
P2806

BCD

FROM BCD (DC 24V)

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01

AUTO PILOT
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02

GYRO COMPASS
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04

MARINE RADAR SYSTEM
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05

NO.1 DGPS & PLOTTER
(PAGE 16)

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06

NO.2 DGPS & PLOTTER
(PAGE 16)

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07

A.I.S
(PAGE 19)

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08

MOTOR SIREN
(PAGE 21)

D-2

09

NO.1 VHF RADIO TELEPHONE
(PAGE 24)

D-2

10

NO.2 VHF RADIO TELEPHONE
(PAGE 24)

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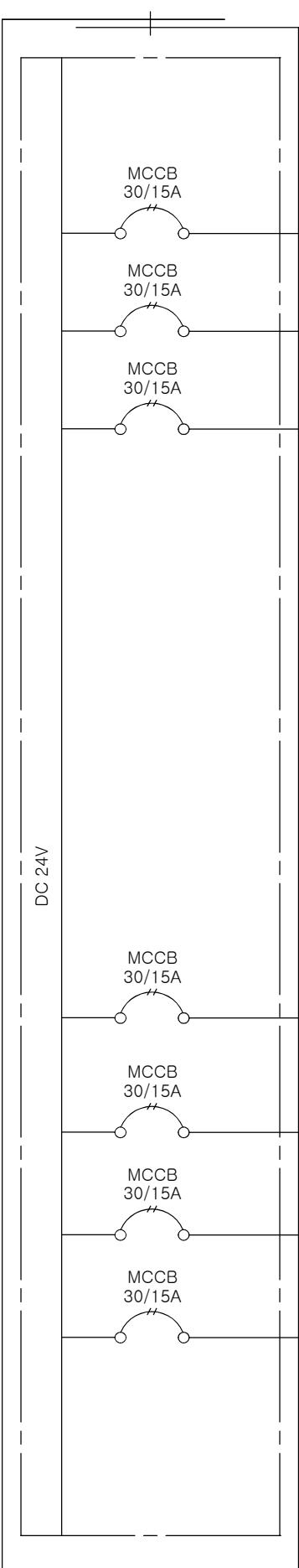
11

MTS TRANSCEIVER
(PAGE 25)

D-2

12

V-PASS SYSTEM
(PAGE 28)



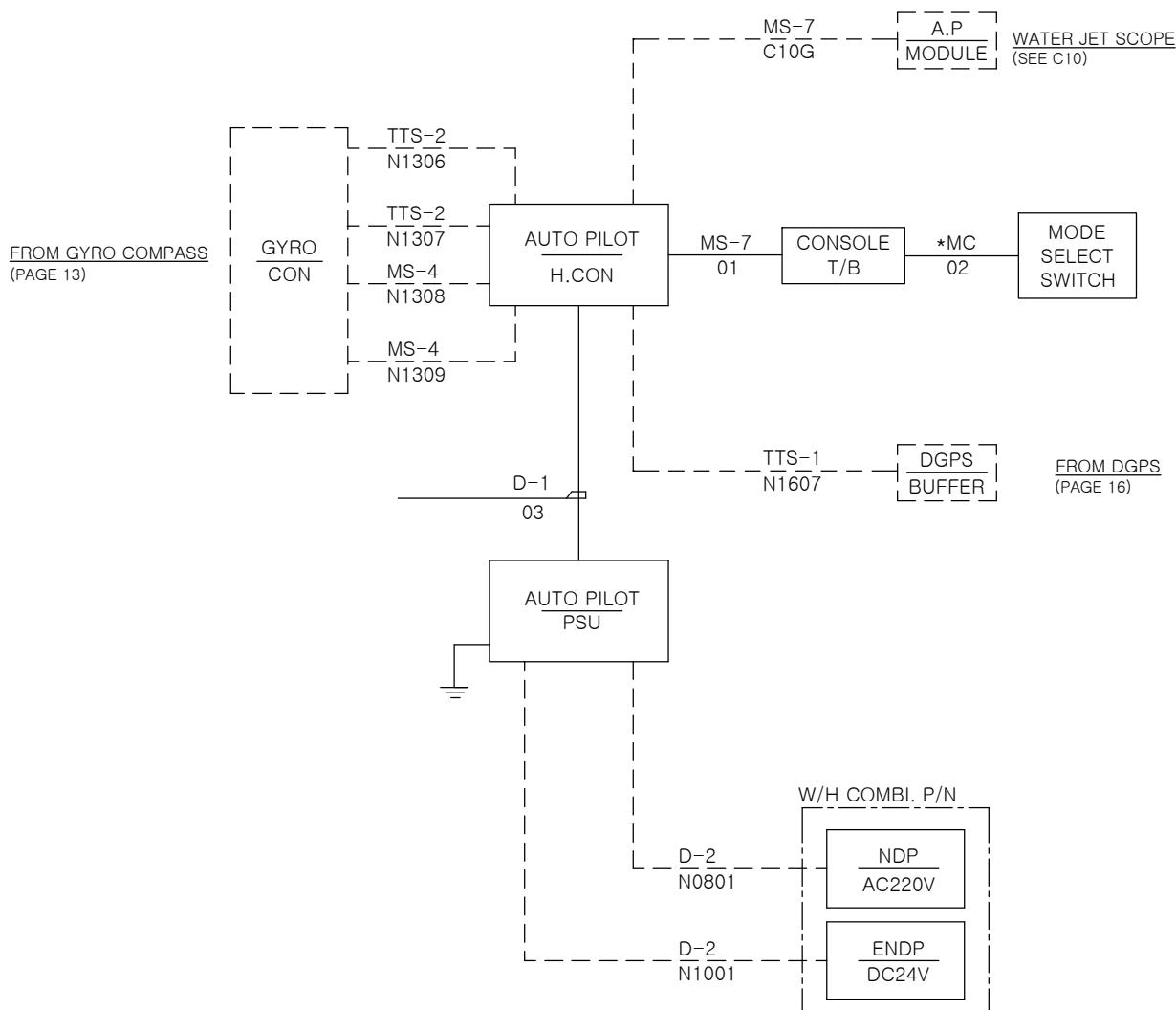
COMMON BATTERY TEL.
(PAGE 29)

PUBLIC ADDRESSOR SYS.
(PAGE 30)

DAYLIGHT SIGNAL LIGHT

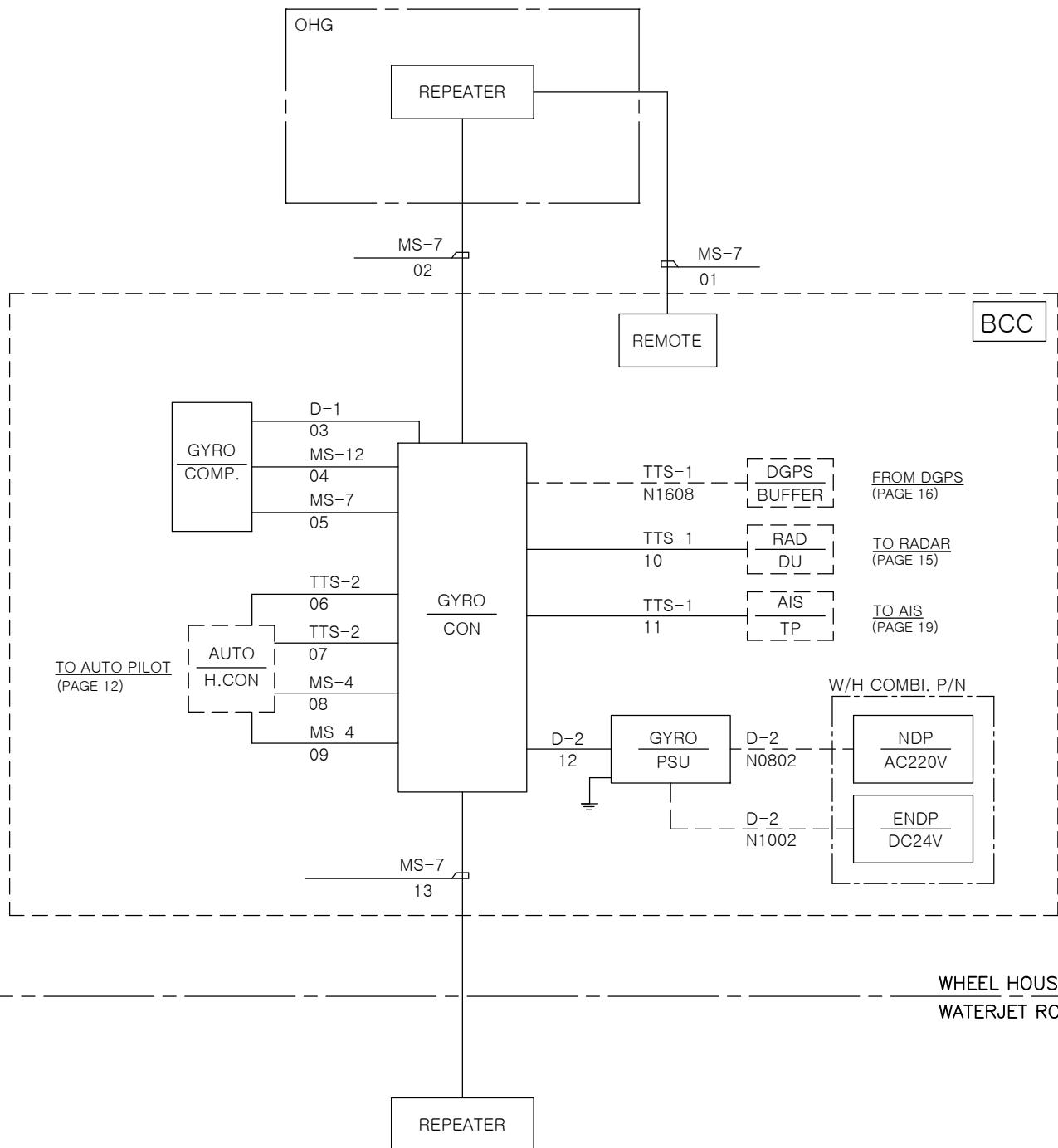
SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
AUTO H.CON	HEADING CONTROL TERMINAL UNIT	1					
AUTO PSU	POWER SUPPLY UNIT	1					

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
GYRO CON	GYRO CONTROL UNIT	1		GYRO PSU	POWER SUPPLY UNIT	1	
GYRO COMP	GYRO MASTER COMPASS	1		REPEAT	GYRO REPEATER	2	
REMOTE	GYRO REMOTE UNIT	1					

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.



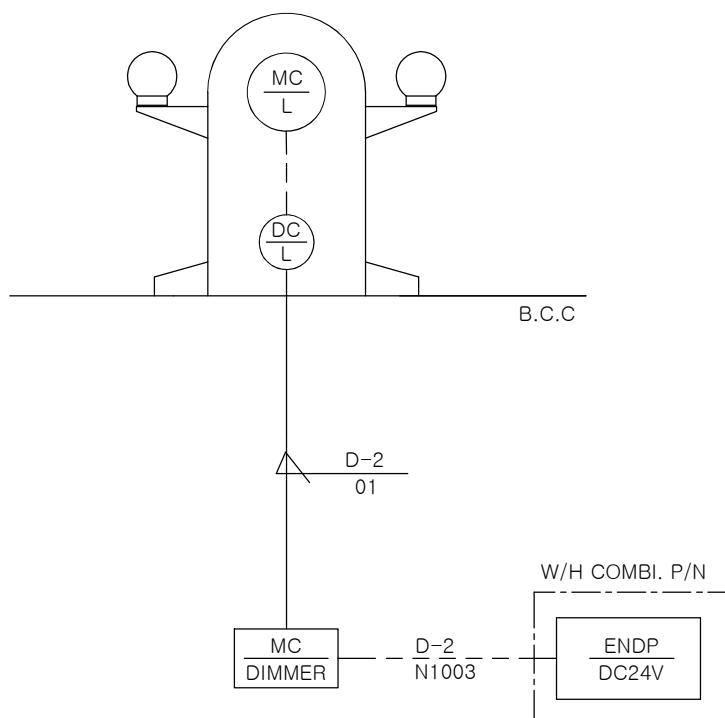
SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
(DC L)	DC DIMMER	1		MC DIMM	DIMMER SWITCH	1	

* 반드시 MAKER DWG. 을 참조하여 시공할 것.

* MAKER :

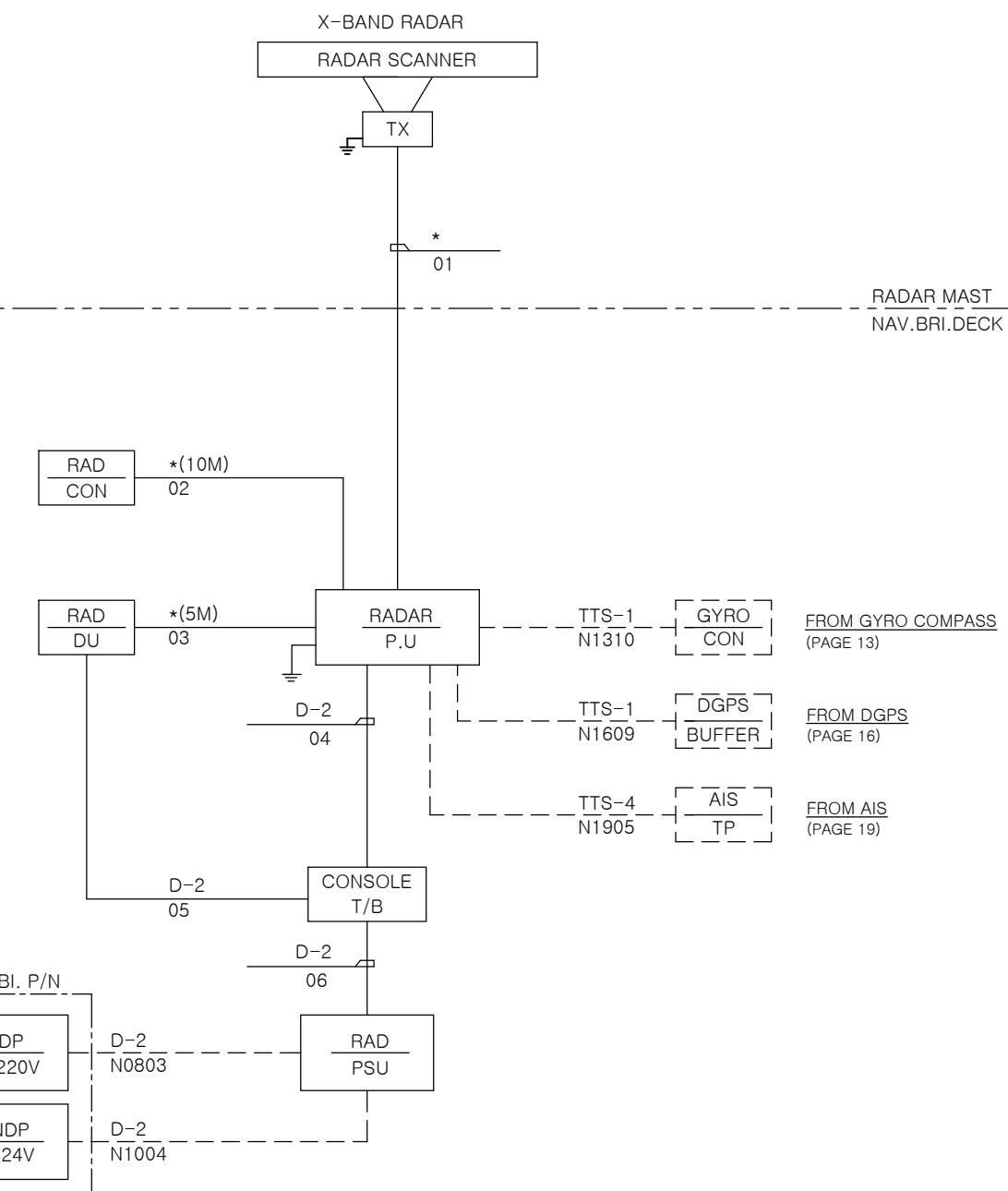
* MODEL :

'*' MARK IS MAKER SUPPLIES.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
RAD DU	COLOR DISPLAY UNIT 19 INCH, LCD	1		RAD CON	RADAR CONTROL UNIT	1	
	SCANNER UNIT WITH TRANSCEIVER	1		RAD PSU	POWER SUPPLY UNIT	1	
RAD P.U	RADAR PROCESSOR UNIT	1					

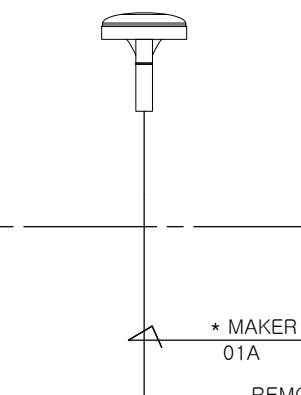
* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '★' MARK IS MAKER SUPPLIES.



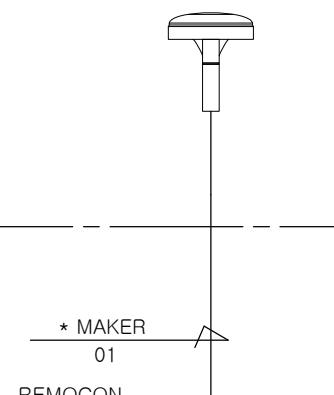
SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
	DGPS ANTENNA UNIT	2			DGPS PLOTTER 12.1 INCH COLOR	2	
	DGPS PLOTTER POWER SUPPLY UNIT	2					

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.

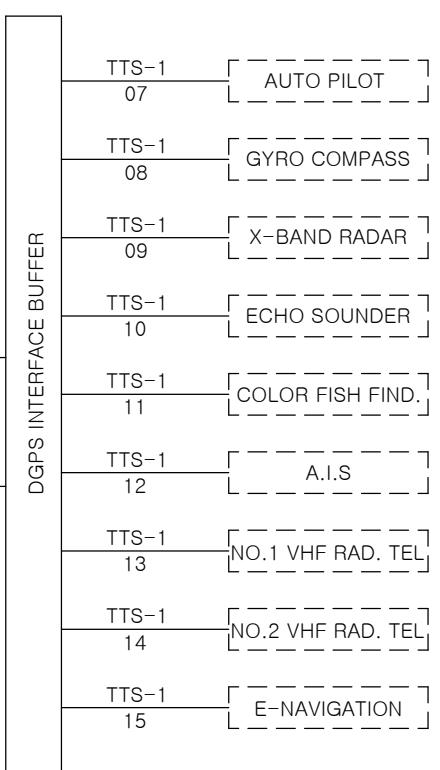
NO.2 GPS ANT.



NO.1 GPS ANT.

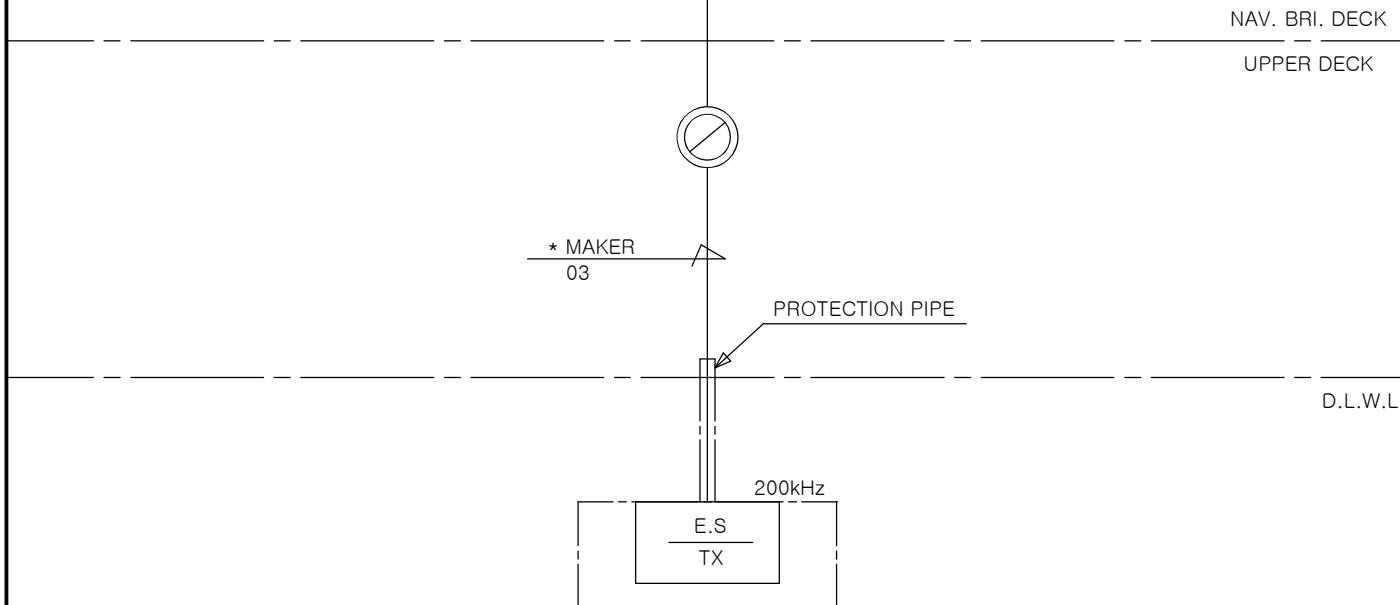
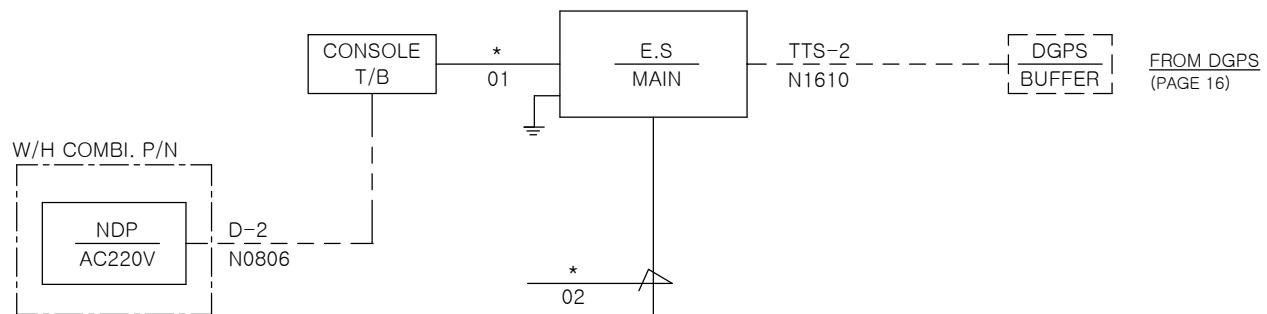


COMPASS DK.
NAV.BRI.DECK



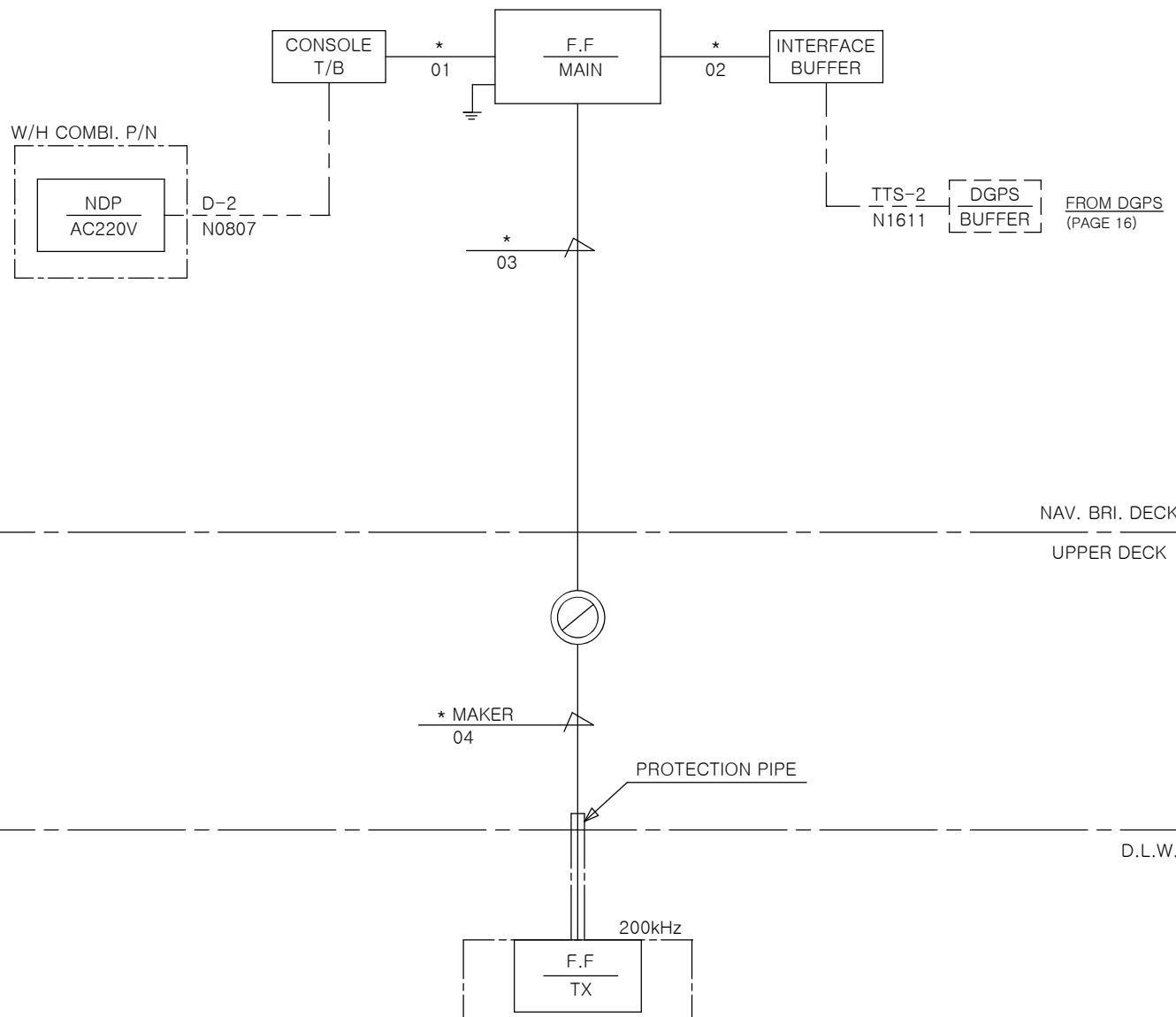
SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
E.S MAIN	ECHO SOUNDER MAIN UNIT	1		(○)	JUNCTION BOX	1	
E.S TX	ECHO SOUNDER TRANSDUCER UNIT	1					

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
F.F MAIN	FISH FINDER MAIN UNIT 15" DISPLAY UNIT	1		(○)	JUNCTION BOX	1	
F.F TX	FISH FINDER TRANSDUCER UNIT	1					

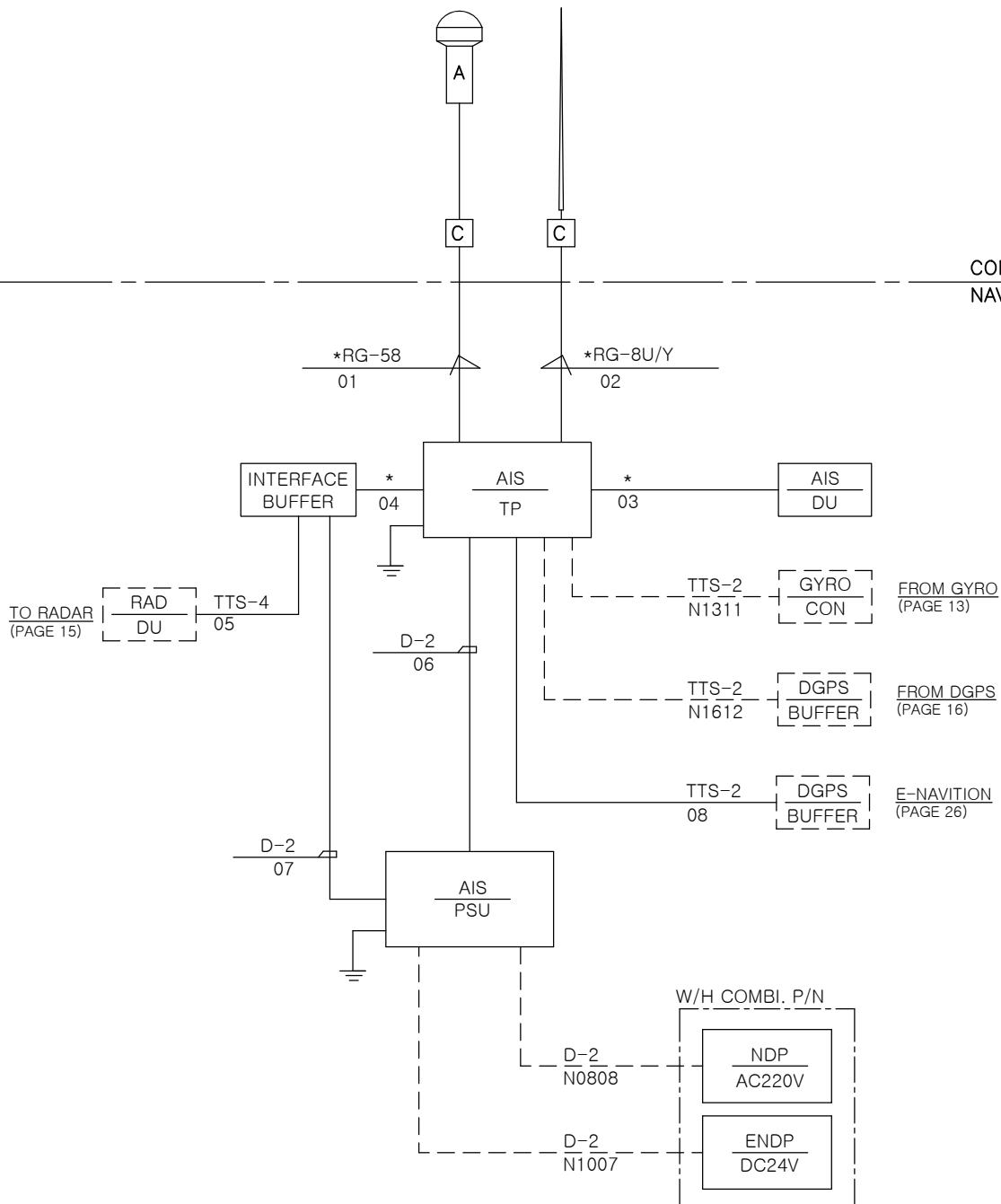
* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
AIS TP	AIS TRANSPONDER	1			AIS VHF ANTENNA	1	
AIS DU	AIS DISPLAY UNIT	1		A	AIS GPS ANTENNA	1	
AIS PSU	AIS POWER SUPPLY UNIT	1		C	ANTENNA CONNECTOR	2	

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.

GPS ANT. VHF ANT.

COMPASS DK.
NAV.BRI.DECK

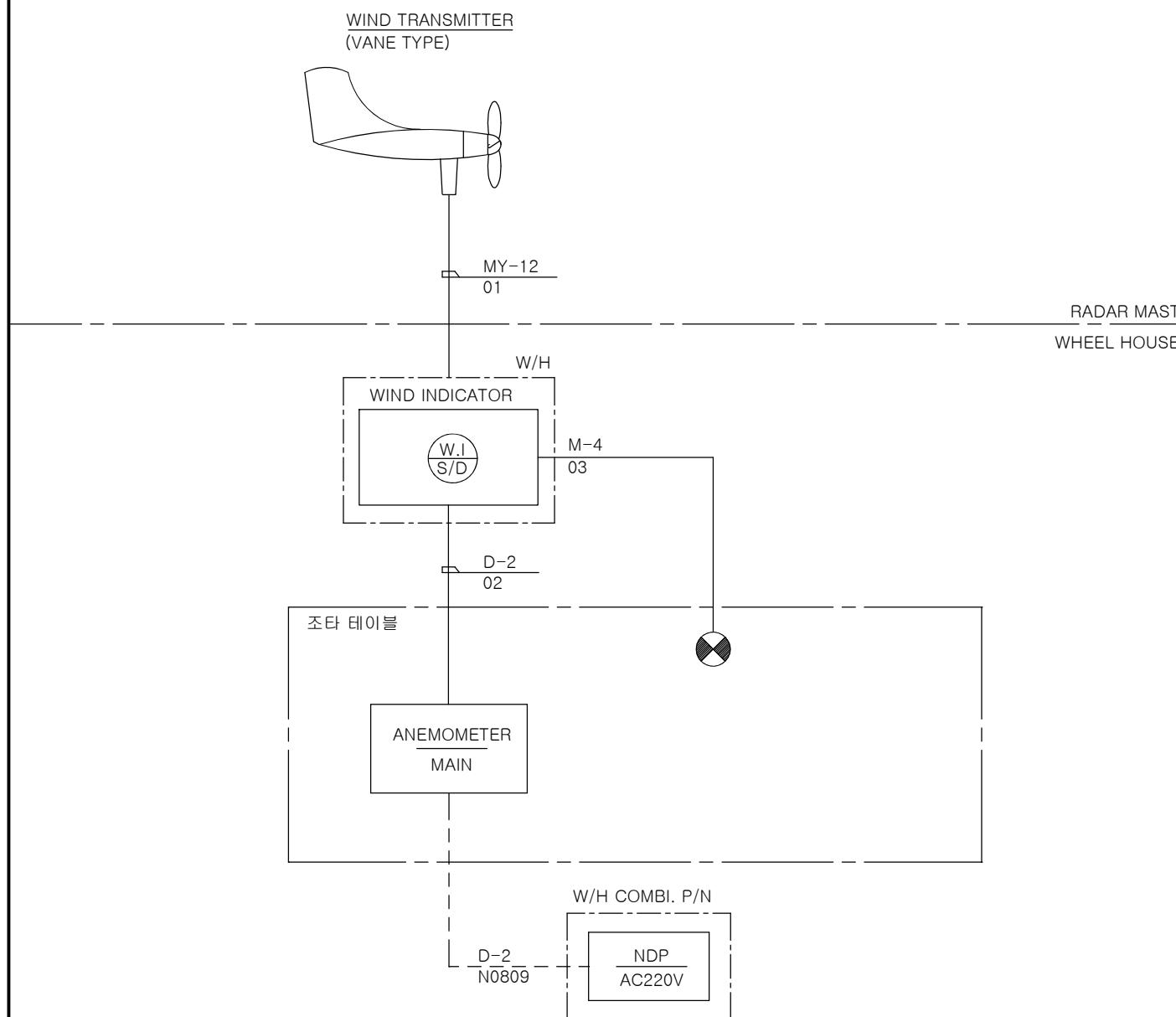
SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
	WIND TRANSMITTER (VANE)	1			WIND DIRECTION/SPEED INDICATOR	1	
	ANEMOMETER MAIN UNIT	1			DIMMER SWITCH	1	

* 반드시 MAKER DWG. 을 참조하여 시공할 것.

* MAKER :

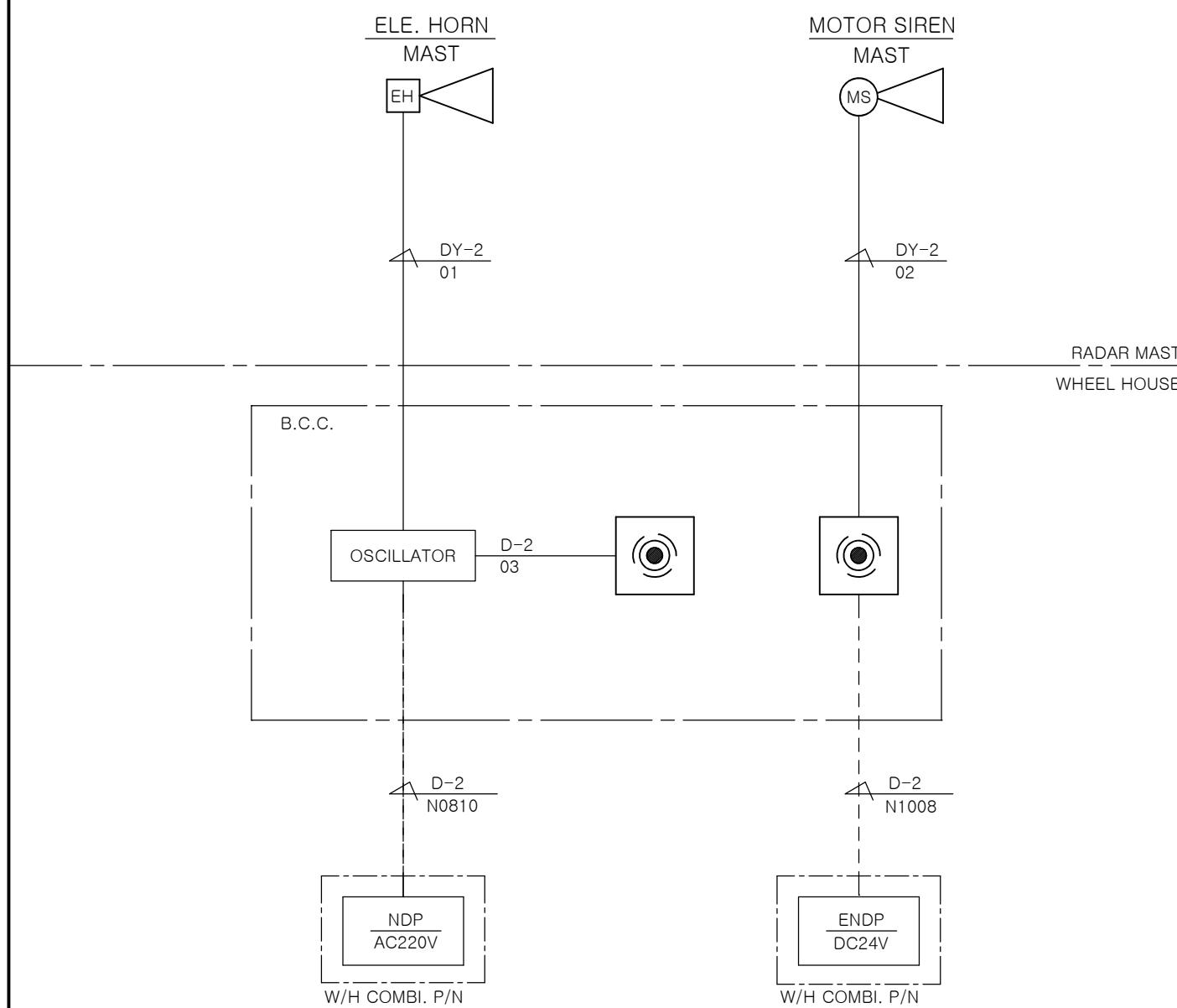
* MODEL :

'*' MARK IS MAKER SUPPLIES.

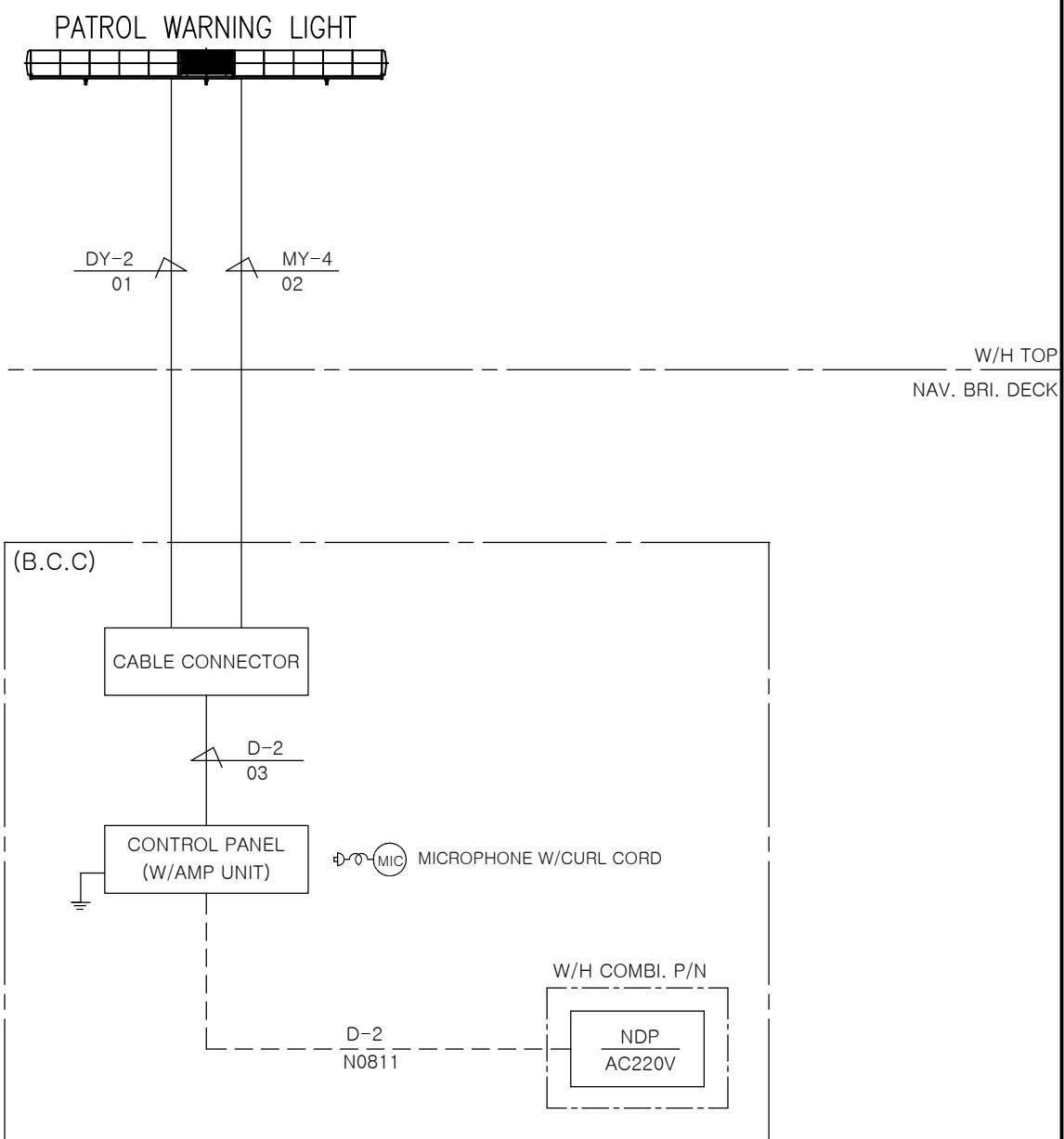


SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
	ELECTRIC HORN	1			PUSH BUTTON	2	
	MOTOR SIREN	1					

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.

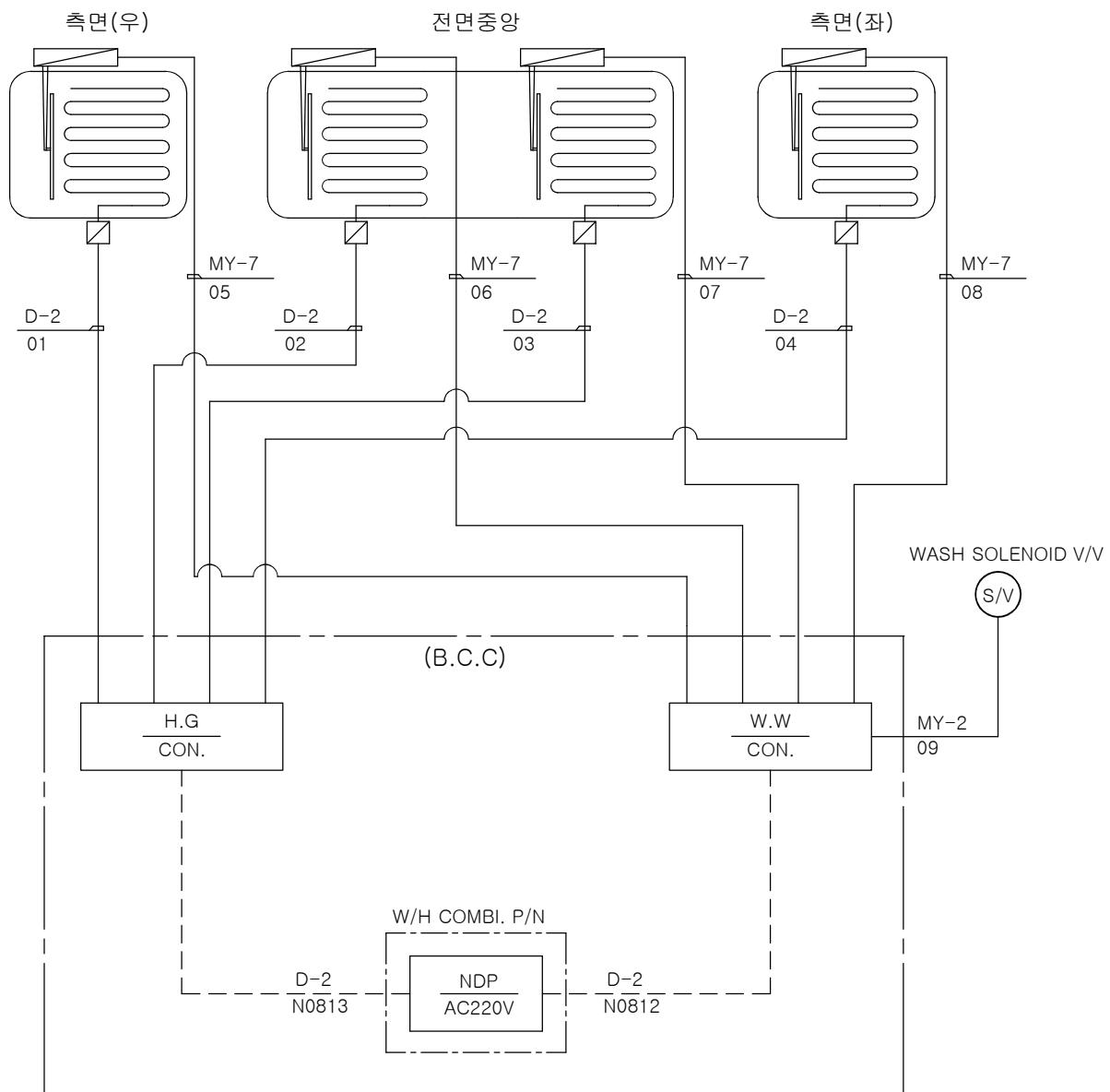


* 반드시 MAKER DWG. 을 참조하여 시공할 것.
* MAKER :
* MODEL :
'*' MARK IS MAKER SUPPLIES.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
[W.W CON.]	WINDOW WIPER CONTROLLER	1		[T]	WINDOW WIPER	4	
[CVS CON.]	HEATED GLASS CONTROLLER	1		[Spiral]	HEATED GLASS	4	
(S/V)	WASH SELENOID VALVE	1		[Box]	HEATED GLASS JUNCTION BOX	4	

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.

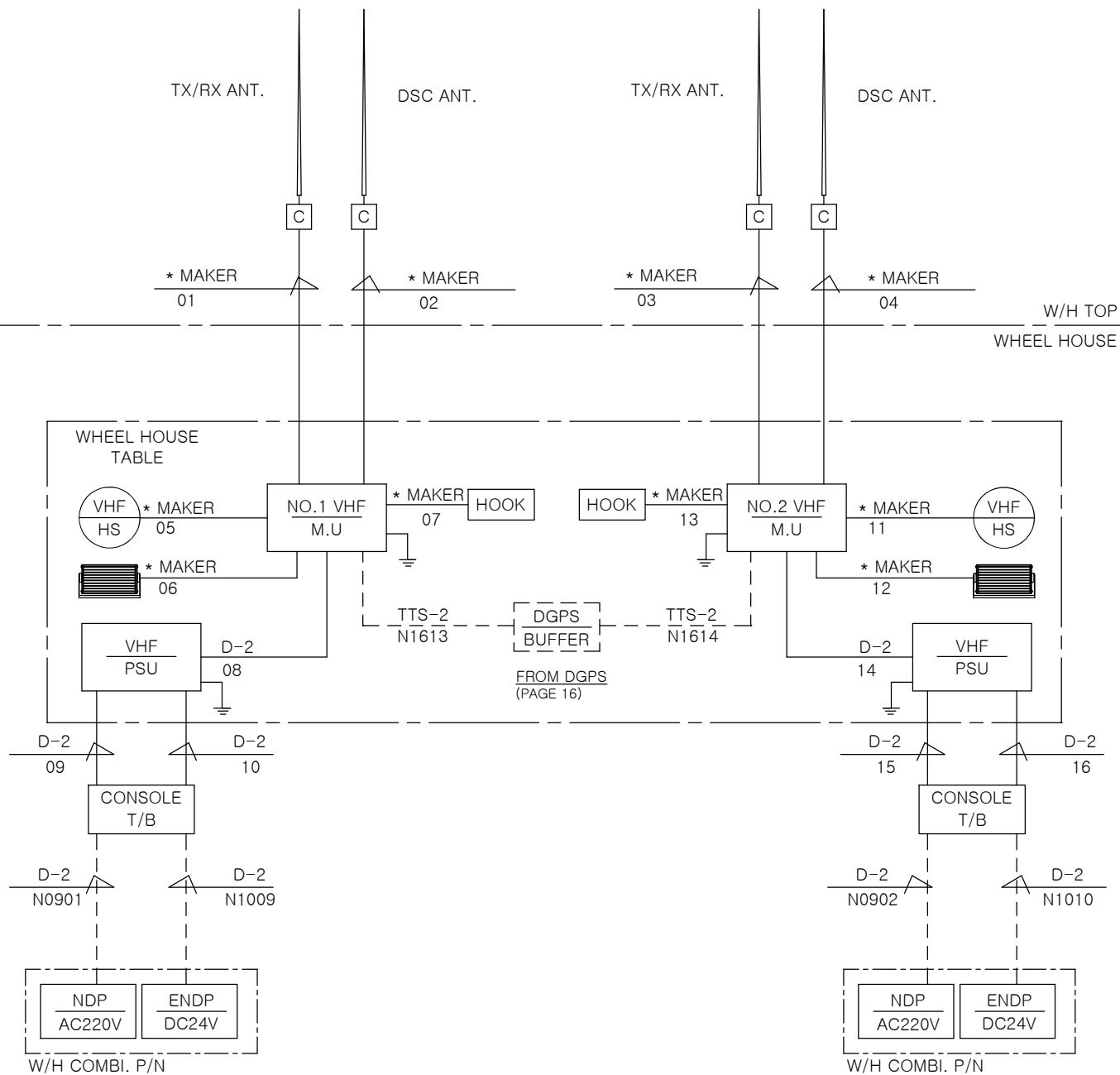


SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
[VHF M.U]	MAIN UNIT	2			VHF TX/ RX/ DSC ANTENNA	4	
[VHF HS]	HANDEST UNIT	2		[C]	ANTENNA CONNECTOR	2	
[VHF PSU]	POWER SUPPLY UNIT	2		[SPEAKER]	SPEAKER	2	

* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.

NO.1 VHF RADIO TEL.

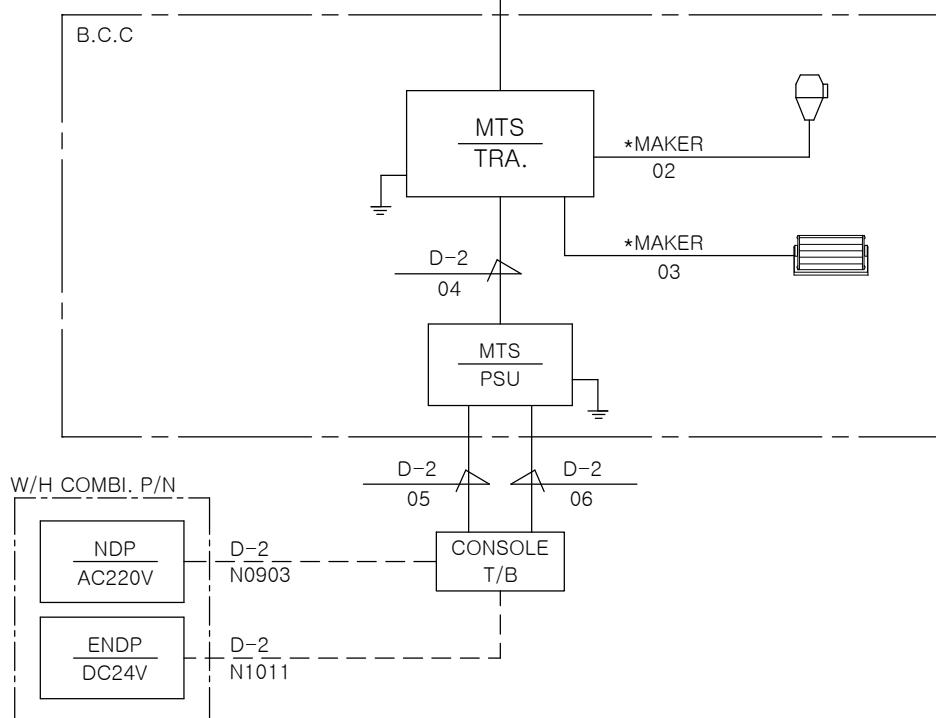
NO.2 VHF RADIO TEL.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
 MTS TRA.	MTS TRANSCEIVER UNIT	1			MTS WHIP ANTENNA	1	
	MICROPHONE HANDSET UNIT	1			SPEAKER	1	
 MTS PSU	POWER SUPPLY UNIT	1					

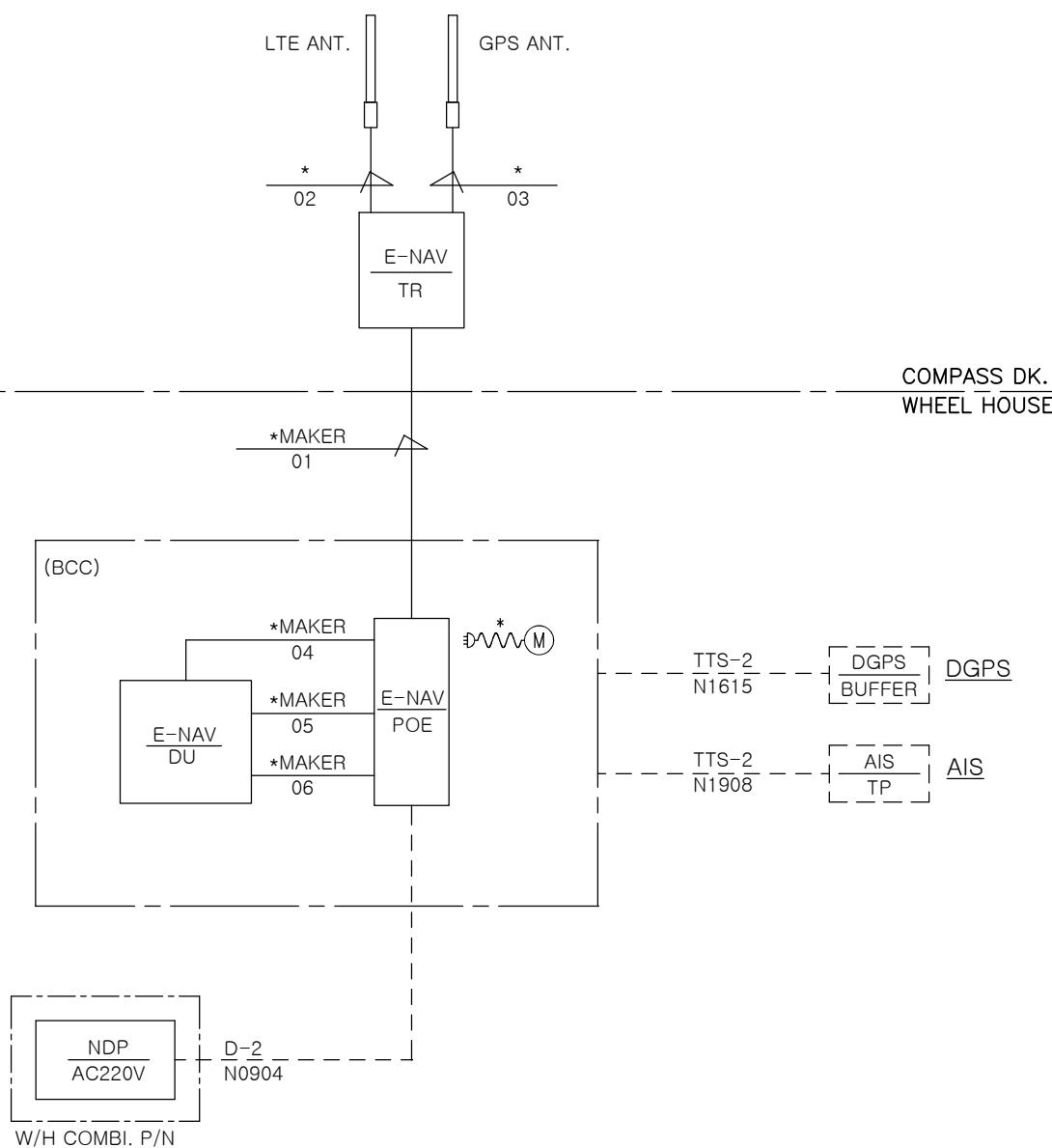
* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :
 '*' MARK IS MAKER SUPPLIES.

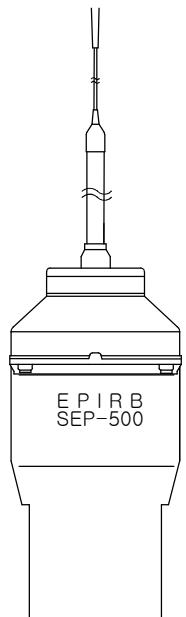
MTS WHIP ANTENNA



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
E-NAV TR	TRANSMIT AND RECEIVER	1		E-NAV POE	E-NAV SPOE BOX	1	
E-NAV DU	12.1" DISPLAY UNIT, COLOR, LCD	1			LTE ANTENNA	2	

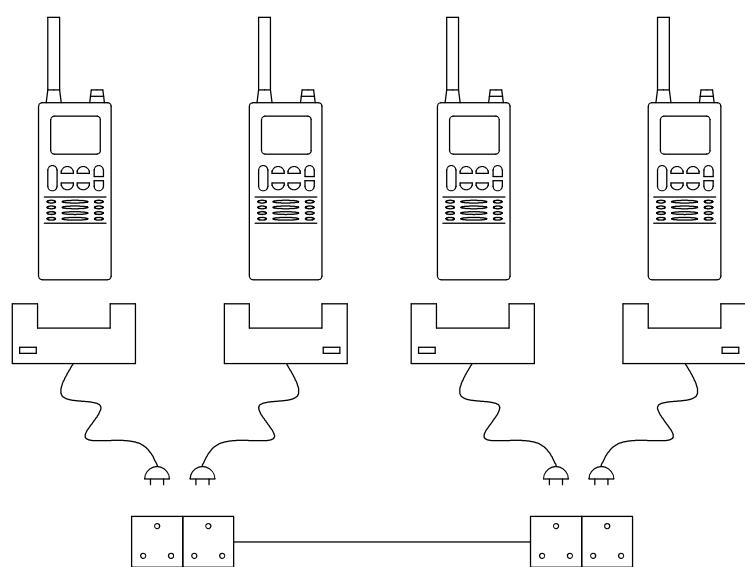
* 반드시 MAKER DWG. 을 참조하여 시공할 것.
'*' MARK IS MAKER SUPPLY.





SATELLITE EPIRB

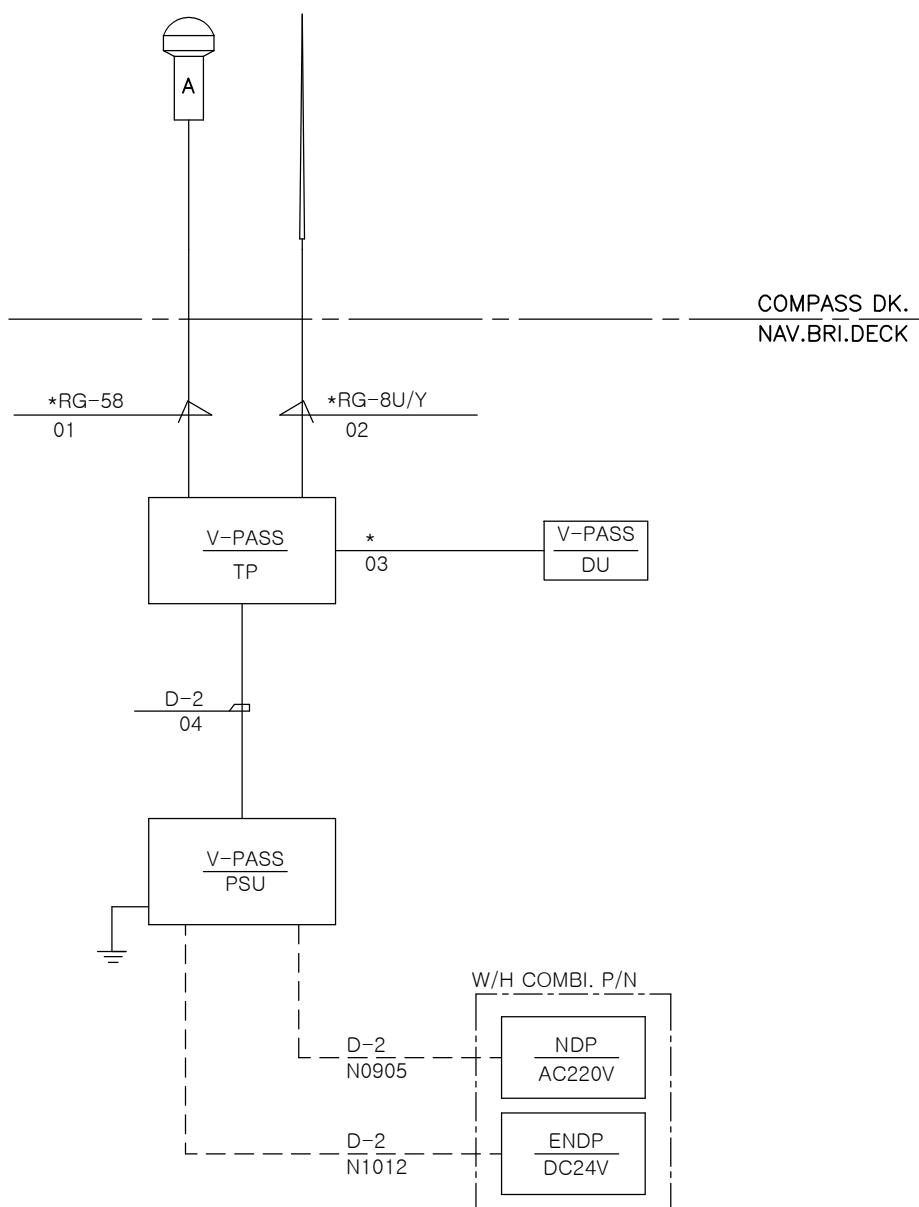
MAKER	
MODEL	
주파수	406/121.5MHz



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
V-PA. TP	V-PASS TRANSPOUNDER	1			V-PASS UHF ANTENNA	1	
V-PA. DU	V-PASS DISPLAY UNIT	1		A	V-PASS GPS ANTENNA	1	
V-PA. PSU	V-PASS POWER SUPPLY UNIT	1					

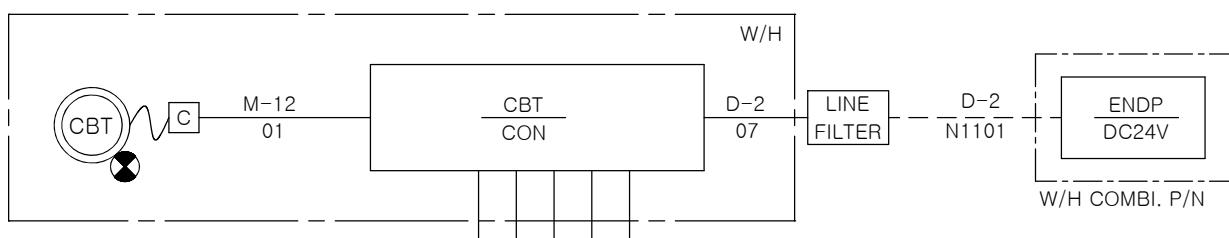
* 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :

GPS ANT. UHF ANT.



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
(CBT)	COMMON BATT. TEL. (WALL MOUNT, N.W.T)	1	SLIM TYPE	(CBT) <small>(SR)</small>	COMMON BATT. TEL. (WALL MOUNT, W.T)		W/SUB. RECIVER
(CBT)	COMMON BATT. TEL. (DESK MOUNT, N.W.T)	2		(CBT)	COMMON BATT. TEL. (WALL MOUNT, W.T)		
(CBT)	COMMON BATT. TEL. (FLUSH MOUNT, N.W.T)	1	W/DIMMER SWITCH	(BL)	200Ø ELEC. BELL	2	
(CBT)	COMMON BATT. TEL. (WALL MOUNT W/HAND - SET W.T)	2		(CBT) <small>CON</small>	CONNECTION BOX	1	

* 반드시 MAKER DWG. 을 참조하여 시공할 것.



NAV. BRI. DECK

UPPER DECK

회의실



M-12
03

MESS RM



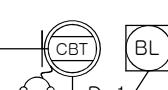
M-12
04

ENGINE R/M



M-12
05

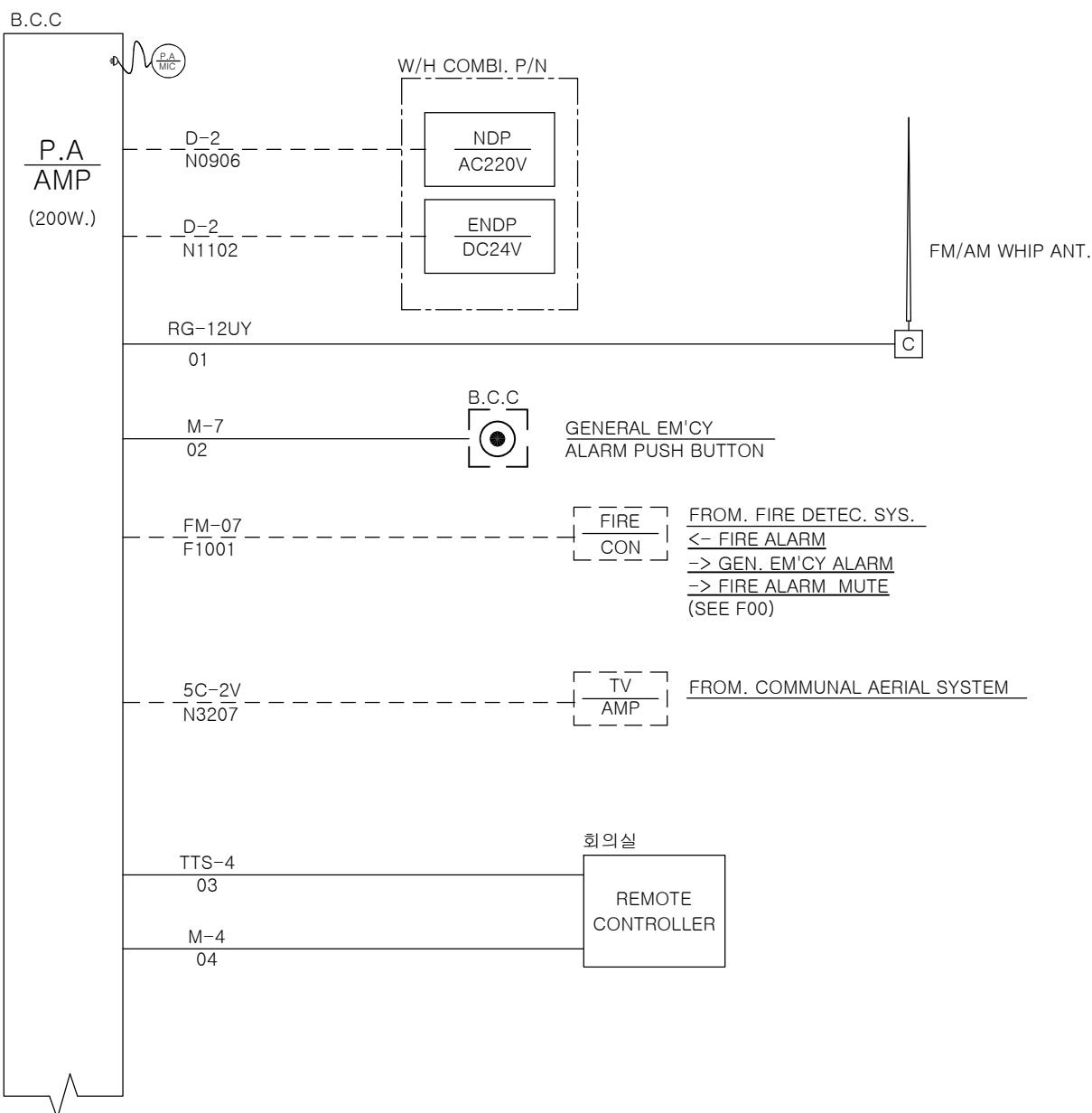
STEERING GEAR ROOM



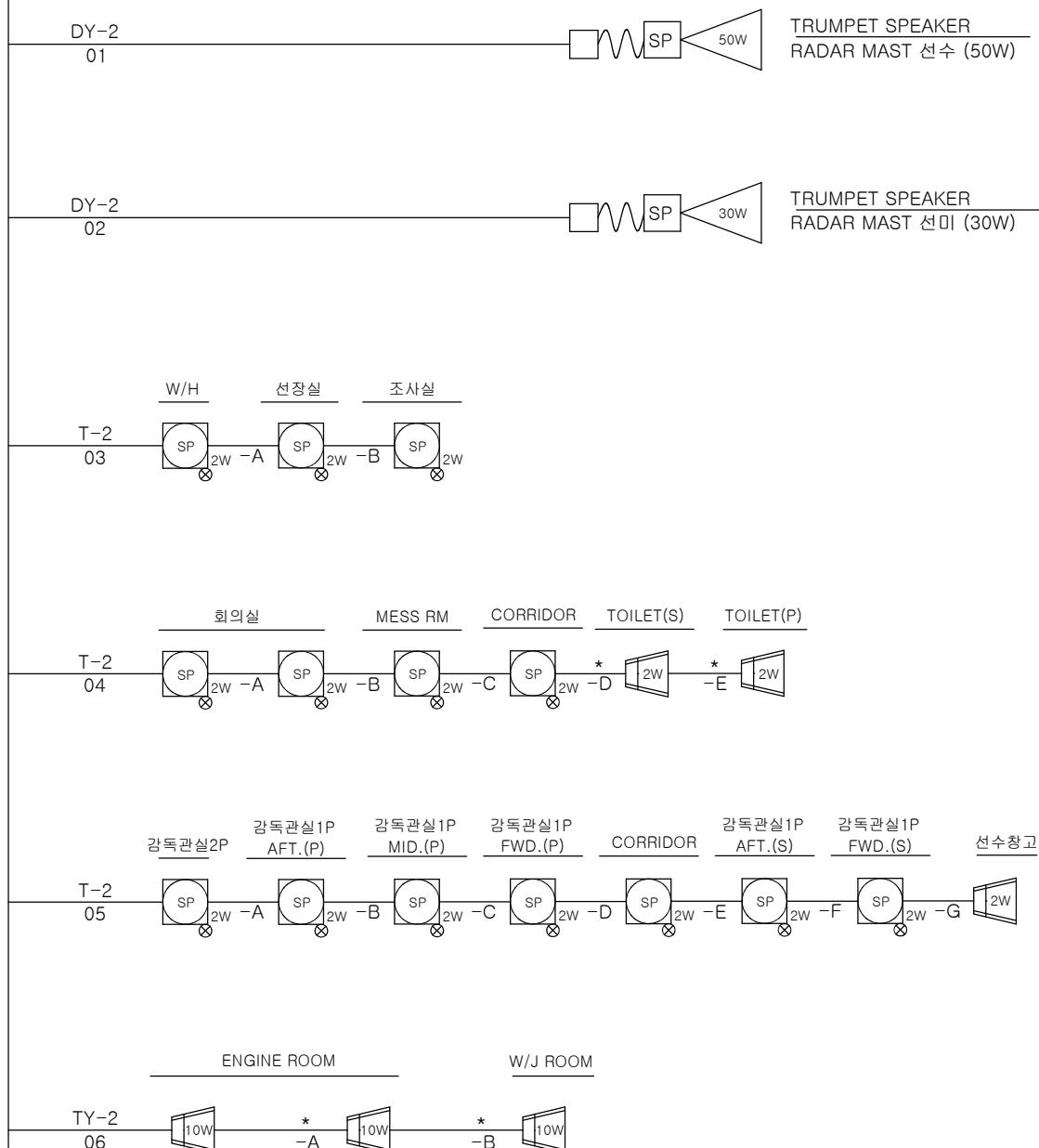
M-12
06

SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
	50W W.T TRUMPET TYPE SPEAKER	1			VHF TX/ RX/ DSC ANTENNA	1	200W
	30W W.T TRUMPET TYPE SPEAKER	1			MICROPHONE	1	W/CUAL CORD
	W.T 10W SPEAKER	3			5W SPEAKER W.T	1	
	N.W.T 2W CABIN SPEAKER FLUSH TYPE				W.T 2W CABIN SPEAKER FLUSH TYPE	3	W/VOLUME
	N.W.T 2W CABIN SPEAKER FLUSH TYPE	10	W/VOLUME				

* 반드시 MAKER DWG. 을 참조하여 시공할 것.



B.C.C

P.A
AMP
(200W.)

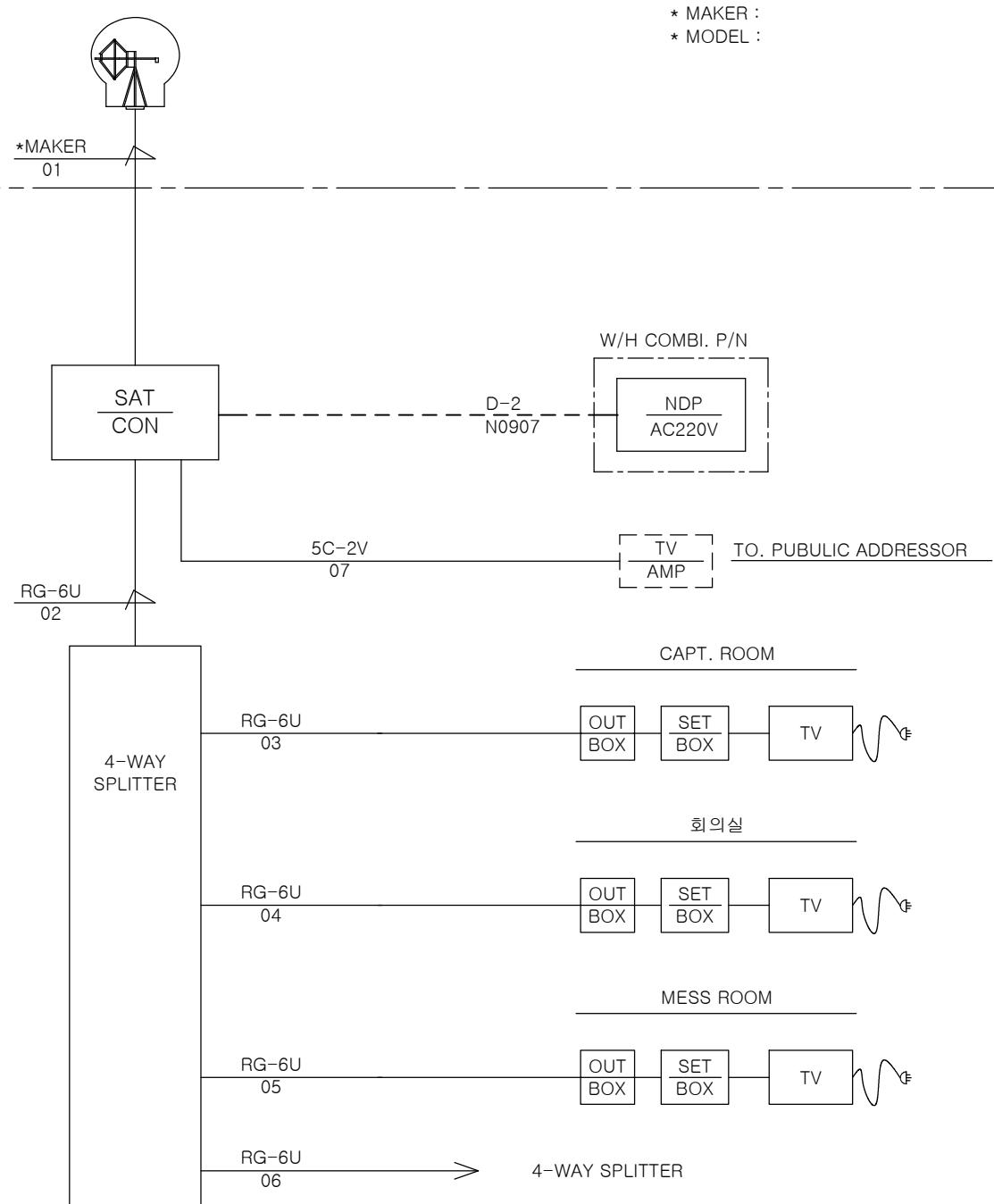
SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
	SAT. TV. ANTENNA	1	W/VOLUM		TV OUTLET BOX	9	
	COMMUNAL AERIAL SYSTEM CONTROLLER	1			SET TOP BOX	9	

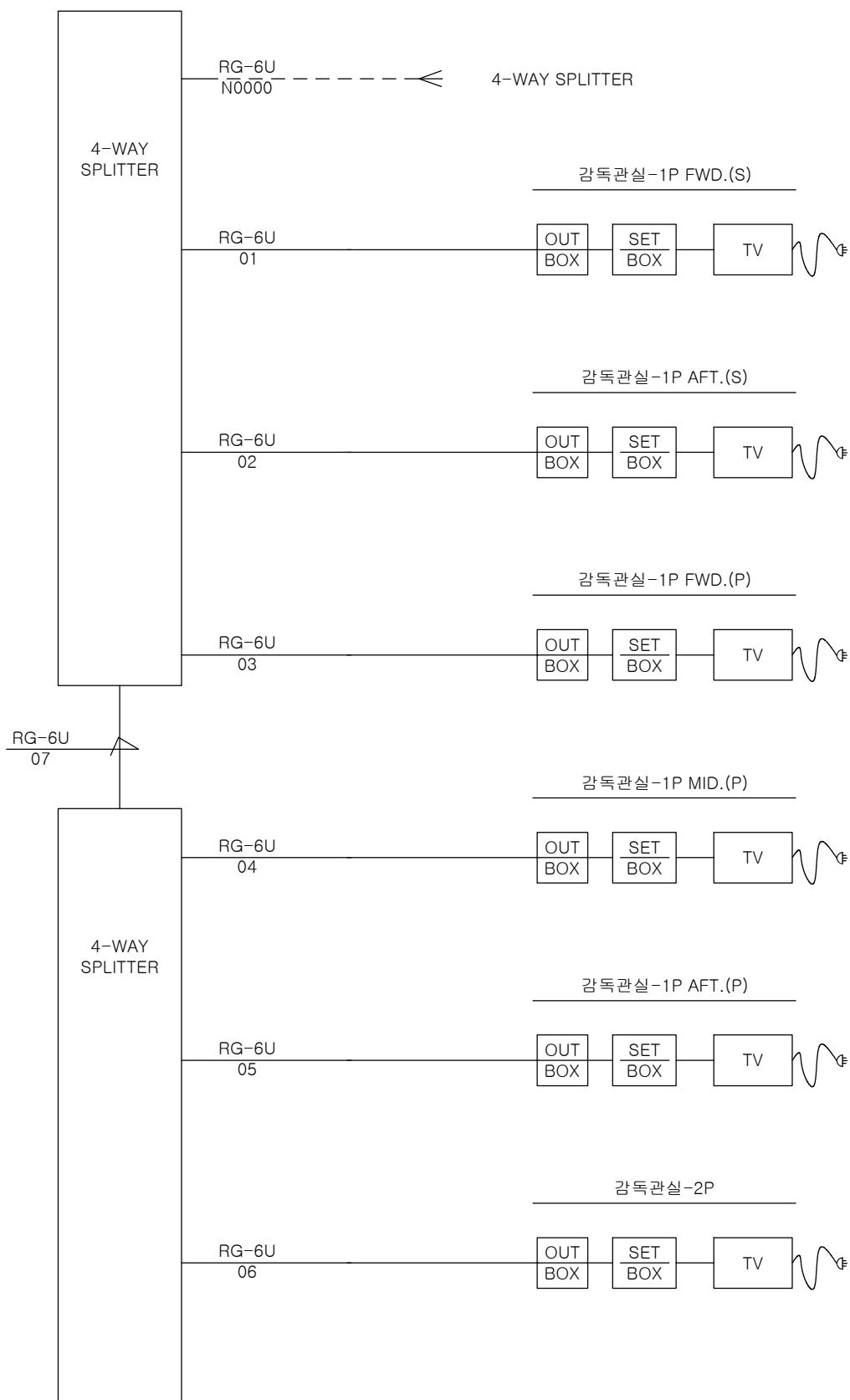
* ALL CABLES ARE RG-6U UNLESS OTHERWISE NOTED.

* 반드시 MAKER DWG. 을 참조하여 시공할 것.

* MAKER :

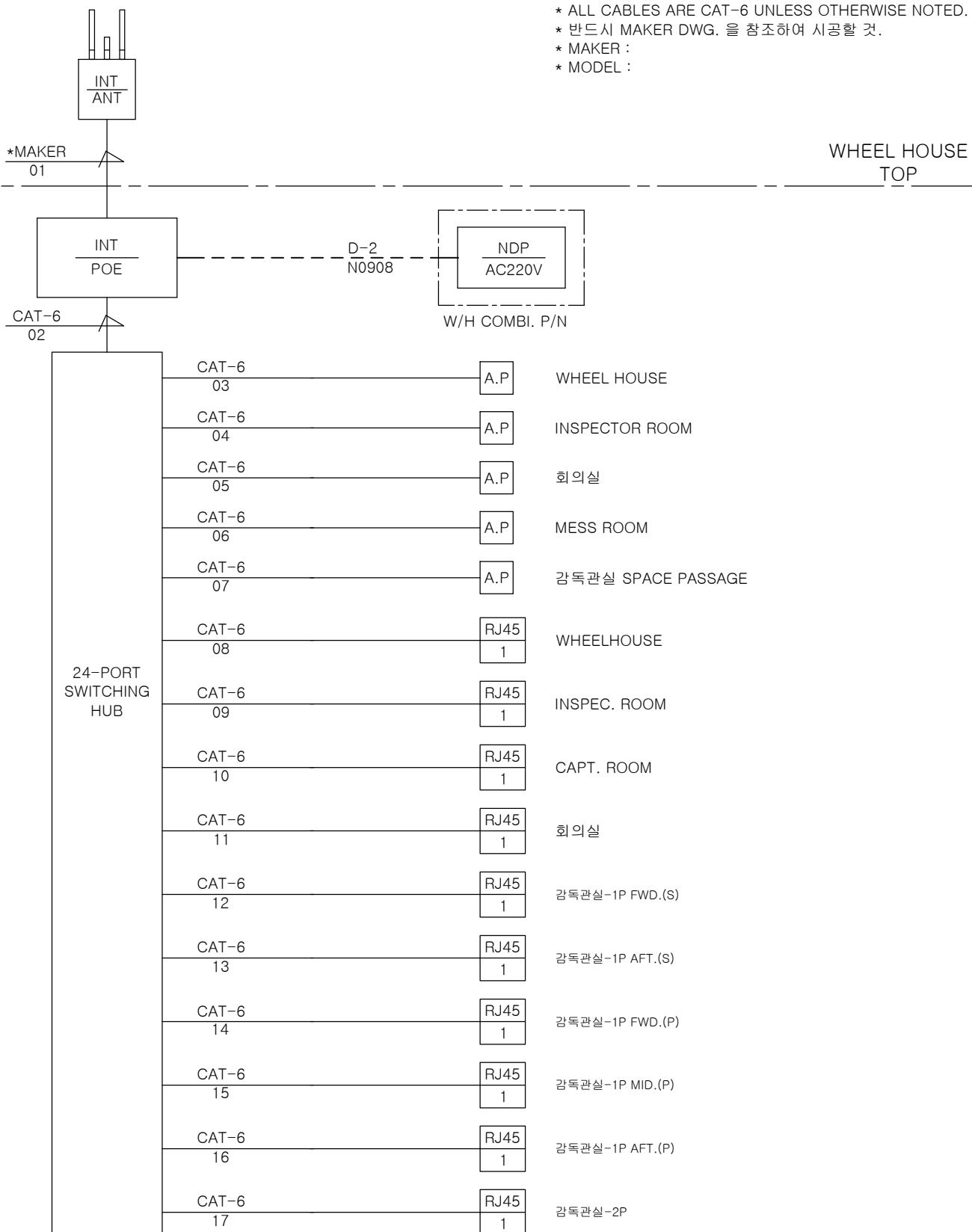
* MODEL :





SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
	INTERNET LTE ANTENNA	1	W/VOLUM	A.P	ACCESS POINT	5	
	INTERNET POE BOX	1		RJ45 1	RJ45 OUTLET BOX	10	

* ALL CABLES ARE CAT-6 UNLESS OTHERWISE NOTED.
 * 반드시 MAKER DWG. 을 참조하여 시공할 것.
 * MAKER :
 * MODEL :



SYMB.	DESCRIPTION	Q'TY	REMARK	SYMB.	DESCRIPTION	Q'TY	REMARK
CAMERA /	W.T EXTERNAL CAMERA	6		CAMERA /	W.T DOME TYPE CCTV CAMERA	4	
CAMERA o	N.W.T DOME TYPE CCTV CAMERA	2					

