

ELECTRICAL DRAWINGS
FOR
부산항 신항 서컨 2-6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMGC)

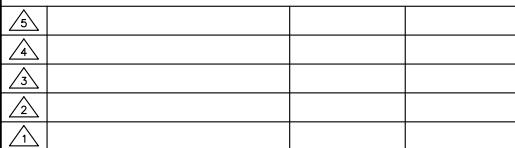
RCC SYSTEM

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DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	DRAWING COVER	000
WORK NAME					DRAWING NO.	CONT.SH.
부산항 신항 서컨 2-6 단계						
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)						001

SH.NO.	TITLE OF DRAWING	DRAWING NO.	REV.	SH.NO.	TITLE OF DRAWING	DRAWING NO.	REV.
000	DRAWING COVER			313	FDF #2 PANEL (5th FLOOR) / FDF BOX #105 ~ #108		
001	DRAWING INDEX			314	FDF #2 PANEL (5th FLOOR) / FDF BOX #109, 5th TO 7th		
020 ~ 023	SCHEMATIC SYMBOLS			315	FDF #2 PANEL (5th FLOOR) / FDF BOX #PAGING		
030 ~ 031	GENERAL SPECIFICATION			316	FDF #2 PANEL (5th FLOOR) / FDF BOX #110 ~ #113		
032	WIRING INSTRUCTION			317	FDF #2 PANEL (5th FLOOR) / FDF BOX #114 ~ #115		
070	SERVER ROOM (5th FLOOR) / CONFIGURATION			320	FDF #3 PANEL (5th FLOOR) / FDF BOX #253 ~ #256		
071	REMOTE CONTROL CENTER (7th FLOOR) / CONFIGURATION			321	FDF #3 PANEL (5th FLOOR) / FDF BOX #257 ~ #260		
072	REMOTE CONTROL CENTER / CONFIGURATION			322	FDF #3 PANEL (5th FLOOR) / FDF BOX #261 ~ #264		
073	REMOTE CONTROL CENTER / SINGLE LINE DIAGRAM			323	FDF #3 PANEL (5th FLOOR) / FDF BOX #265 ~ #268		
				324	FDF #3 PANEL (5th FLOOR) / FDF BOX #269 ~ #272		
130	REMOTE CONTROL STATION / POWER CIRCUIT			325	FDF #3 PANEL (5th FLOOR) / FDF BOX #273 ~ #276		
131	REMOTE CONTROL STATION / ETHERNET CONFIGURATION			326	FDF #3 PANEL (5th FLOOR) / FDF BOX #277 ~ #280		
135	REMOTE CONTROL STATION / PLC CONFIGURATION			327	FDF #3 PANEL (5th FLOOR) / FDF BOX #281 ~ #284		
136 ~ 139	REMOTE CONTROL STATION / DIGITAL INPUT CONTROL			328	FDF #3 PANEL (5th FLOOR) / FDF BOX #285 ~ #286		
140 ~ 141	REMOTE CONTROL STATION / CENTER SWITCH BOARD						
145	REMOTE CONTROL STATION / DIGITAL OUTPUT CONTROL			400	RACK PANEL (7th FLOOR) / POWER CIRCUIT		
				401	RACK PANEL (7th FLOOR) / NETWORK		
150 ~ 151	MAINTENANCE OFFICE / POWER CIRCUIT			402	RACK PANEL (7th FLOOR) / FDF BOX 5th TO 7th, #PAGING		
				410	RACK PANEL (7th FLOOR) / PLC CONFIGURATION		
200	RACK PANEL (5th FLOOR) / POWER DISTRIBUTION						
201 ~ 209	RACK PANEL (5th FLOOR) / NETWORK			450	UPS PANEL (7th FLOOR) / POWER CIRCUIT		
300	FDF #1 PANEL (5th FLOOR) / FDF BOX #207 ~ #210			451 ~ 452	UPS #2 PANEL (7th FLOOR) / POWER CIRCUIT		
301	FDF #1 PANEL (5th FLOOR) / FDF BOX #211 ~ #214						
302	FDF #1 PANEL (5th FLOOR) / FDF BOX #215 ~ #218			500 ~ 501	REMOTE CONTROL CENTER / FIRE ALARM & FIGHTING SYSTEM		
303	FDF #1 PANEL (5th FLOOR) / FDF BOX #219 ~ #222			502 ~ 503	REMOTE CONTROL CENTER / ANEMOMETER SYSTEM		
304	FDF #1 PANEL (5th FLOOR) / FDF BOX #223 ~ #226						
305	FDF #1 PANEL (5th FLOOR) / FDF BOX #227 ~ #230			504 ~ 505	MAINTENANCE OFFICE / HOISTING MACHINERY MONITORING SYSTEM		
306	FDF #1 PANEL (5th FLOOR) / FDF BOX #231 ~ #234						
307	FDF #1 PANEL (5th FLOOR) / FDF BOX #235 ~ #238						
308	FDF #1 PANEL (5th FLOOR) / FDF BOX #239 ~ #240						
309	FDF #2 PANEL (5th FLOOR) / FDF BOX #241 ~ #244						
310	FDF #2 PANEL (5th FLOOR) / FDF BOX #245 ~ #248						
311	FDF #2 PANEL (5th FLOOR) / FDF BOX #249 ~ #252						
312	FDF #2 PANEL (5th FLOOR) / FDF BOX #101 ~ #104						



DRAWIN. BY D.H.JEONG	DESIGN BY B.H.HWANG	CHECK. BY I.H.BANG	APPRV. BY	WORK NO. PJ24-002	TITLE DRAWING INDEX	SH. NO. 001
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO. CON.TSH. 002	

DESCRIPTION	GRAPHIC SYMBOLS
DIRECT CURRENT	—
ALTERNATING CURRENT	~
CONDUCTOR GENERAL	—
CONNECTING CONDUCTOR	—●—
CROSSING OF CONDUCTOR WITHOUT CONNECTION	— —
TERMINAL BLOCK FOR EXTERNAL WIRING INTERNAL TERMINAL BLOCK	{—○—} {—●—}
JUMPER ON TERMINAL BLOCK	—●—
CABLE PLUG & SOCKET	—●—
FLEXIBLE CONDUCTOR (FESTOON & SPREADER CONDUCTORS)	—~—
SLIP-RING CONDUCTOR	—○—
CABLE REEL	○—

DESCRIPTION	GRAPHIC SYMBOLS
EARTH (GROUND) CONNECTION	— —
FRAME OR CHASSIS CONNECTION	— —
TWISTED CONDUCTOR (TWO CONDUCTORS)	— — OR —\—/—
SCREENED CONDUCTORS (ONE CONDUCTOR AND TWO CONDUCTOR)	—○— AND — —
SCREENED CONDUCTORS (CONDUCTOR WITH SCREEN EARTHED)	— —
LINE MARKED TO DENOTE NUMBER OF CONDUCTORS	—//— AND —///—
THREE-PHASE INDUCTION MOTOR	M 3~
SINGLE-PHASE INDUCTION MOTOR	M 1~
THREE-PHASE INDUCTION MOTOR WITH SLIPRING ROTOR	M 3~
DC MOTOR	M =
GENERATOR	G ~

DESCRIPTION	GRAPHIC SYMBOLS
DC GENERATOR WITH PERMANENT MAGNET EXCITATION	G
PULSE GENERATOR (ENCODER)	PG
THREE-PHASE FAN MOTOR	M 3~
THREE-PHASE BRAKE MOTOR ("A" TYPE)	M 3~
THREE-PHASE BRAKE MOTOR ("B" TYPE)	M 3~
DC BRAKE	M =
DC MOTOR FIELD	—~~~~— OR —■—
SINGLE-PHASE VOLTAGE TRANSFORMER	
THREE-PHASE TRANSFORMER	
AUTO-TRANSFORMER	
TRANSFORMER WITH THREE SEPARATE WINDINGS	

DESCRIPTION	GRAPHIC SYMBOLS
CURRENT TRANSFORMER	
ZERO-PHASE CURRENT TRANSFORMER	
INSTRUMENT SHUNT	
RESISTOR	
VARIABLE RESISTOR	— — OR —△—
REACTOR (INDUCTOR)	
FUSE	
FUSE FOR DISCONNECTOR TYPE	
ACCUMULATOR CELL, BATTERY (LONG LINE=POSITIVE POLE)	
CAPACITOR	—+— OR +—
POLARIZED CAPACITOR	+—+ OR —+—

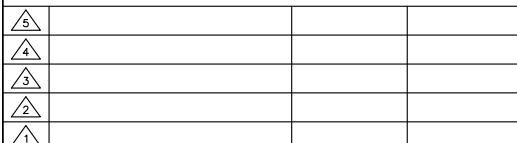
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DESCRIPTION	GRAPHIC SYMBOLS
RELAY AND CONTACTOR OPERATING COIL	
OPERATING COIL WITH RC CIRCUIT	
OPERATING COIL WITH DIODE	
OPERATING COIL WITH DELAY ON ENERGISATION (ON DELAY TIMER)	
OPERATING COIL WITH DELAY ON DE-ENERGIS. (OFF DELAY TIMER)	
OPERATING DEVICE WITH TWO COILS	
OPERATING COIL WITH MECHANICAL LATCHED	
OPERATING COIL FOR PULSE RELAY	
OPERATING COIL FOR SOLENOID VALVE	
UNDERVOLTAGE RELAY	
OVERVOLTAGE RELAY	

DESCRIPTION	GRAPHIC SYMBOLS
OVERCURRENT RELAY	
CURRENT MEASUREMENT RELAY	
GROUND RELAY	
BUZZER	
BELL	
HORN	
SIREN	
PILOT LIGHT OR INDICATING LIGHT	
PILOT LIGHT WITH PUSHBUTTON SWITCH	
DISCHARGE LAMP	
ELECTRICAL FAN OR BLOWER	

DESCRIPTION	GRAPHIC SYMBOLS
AC AMMETER	
DC AMMETER	
AC VOLTMETER	
DC VOLTMETER	
FREQUENCY METER	
TACHOMETER	
WATTMETER	
WATT-HOUR METER	
POWER-FACTOR METER	
HOUR METER (COUNTER)	
COUNTER	

DESCRIPTION	GRAPHIC SYMBOLS
THREE-PHASE THERMAL OVERLOAD RELAY	
THREE-PHASE THERMAL OVERLOAD RELAY (TWO THERMAL ELEMENTS)	
SINGLE-POLE CIRCUIT BREAKER WITH THERMAL & MAGNETIC CIRCUIT	
TRIPLE-POLE CIRCUIT BREAKER WITH THERMAL & MAGNETIC CIRCUIT	
TRIPLE-POLE +NEUTRAL CIRCUIT BREAKER	
TRIPLE-POLE CIRCUIT BREAKER WITH EARTH LEAKAGE PROTECTION	
TRIPLE-POLE CIRCUIT BREAKER WITH MULTI-PROTECTION CIRCUIT & CONTROL BY ELECTRIC MOTOR	
CIRCUIT BREAKER (SINGLE & TRIPLE-POLE)	



DESCRIPTION	GRAPHIC SYMBOLS
CIRCUIT BREAKER WITH ZCT CIRCUIT (ELB)	AND
MAKE CONTACT (NORMAL OPEN)	
BREAK CONTACT (NORMAL CLOSE)	
CHANGE-OVER CONTACT	
MAKE CONTACT (N.O.) FOR CONTACTOR MAIN (SINGLE & TRIPLE-POLE)	AND
BREAK CONTACT (N.C.) FOR CONTACTOR MAIN	
TIME-DELAYED MAKE (N.O.) CONTACT FOR ON-DELAY TIMER	
TIME-DELAYED BREAK (N.C.) CONTACT FOR ON-DELAY TIMER	
TIME-DELAYED MAKE (N.O.) CONTACT FOR OFF-DELAY TIMER	
TIME-DELAYED BREAK (N.C.) CONTACT FOR OFF-DELAY TIMER	
LIMIT SWITCHES (N.O. & N.C. CONTACTS)	AND

DESCRIPTION	GRAPHIC SYMBOLS
FOOT OPERATED LIMIT SWITCHES (N.O. & N.C. CONTACTS)	AND
CAM OPERATED LIMIT SWITCHES (N.O. & N.C. CONTACTS)	AND
LIQUID LEVEL ACTUATED SWITCHES (N.O. & N.C. CONTACTS)	AND
PRESSURE ACTUATED SWITCHES (N.O. & N.C. CONTACTS)	AND
TEMPERATURE ACTUATED SWITCHES (N.O. & N.C. CONTACTS)	AND
PROXIMITY SENSITIVE SWITCHES (N.O. & N.C. CONTACTS)	AND
CONTACT FOR THERMAL OVERLOAD RELAY (N.O. & N.C. CONTACTS)	AND
CONTACT FOR PULSE RELAY (N.O. & N.C. CONTACTS)	AND
CONTACT FOR FUSE INDICATING SWITCH (N.O. & N.C. CONTACTS)	AND
PUSHBUTTON SWITCH= SPRING RETURN, (N.O. & N.C. CONTACTS)	AND
PUSHBUTTON SWITCH= SPRING RETURN MUSHROOM HEAD TYPE (N.O. & N.C. CONTACTS)	AND

DESCRIPTION	GRAPHIC SYMBOLS
PUSHBUTTON SWITCH= LATCHING TYPE "EMERGENCY STOP" SW. (N.O. & N.C. CONTACT)	AND
ILLUMINATED PUSHBUTTON= SPRING RETURN, (N.O. & N.C. CONTACT)	AND
PUSHBUTTON SWITCH= SPRING RETURN, WITH 1 N.O. CONTACT & 1 N.C. CONTACT	
SELECTOR SWITCH= 2-POSITION STAY PUT TYPE	
SELECTOR SWITCH= 2-POSITION SPRING RETURN TYPE	
SELECTOR SWITCH= 3-POSITION STAY PUT TYPE	
SELECTOR SWITCH= 3-POSITION SPRING RETURN TYPE	
KEY SELECTOR SWITCH= 2-POSITION STAY PUT TYPE	
CAM SWITCH= 5-POSITION	
JOYSTICK(LEVER) SWITCH 2 DIRECTION TYPE	
JOYSTICK(LEVER) SWITCH 4 DIRECTION TYPE	

DESCRIPTION	GRAPHIC SYMBOLS
NOISE FILTER	
CONVERTER OR TRANSMITTER	OR
INVERTER	
RECTIFIER MODULE AND BRIDGE DIODE	AND
DIODE	
THYRISTOR	
LIMITING DIODE	
TRANSISTOR AND IGBT	AND

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DESCRIPTION	GRAPHIC SYMBOLS
LIGHTING ARRESTER	
POTENTIAL TEST TERMINAL	
CURRENT TEST TERMINAL	
DRAW OUT CIRCUIT BREAKER (VCB)	
SPACE HEATER	
OUTLET	
WELDING OUTLET	
CIRCUIT BREAKER EARTH LEAKAGE(ELB)	
PROFIBUS BUS CONNECTOR	
PHASE SEQUENCE PROTECTION	
VARISTOR	

DESCRIPTION	GRAPHIC SYMBOLS

DESCRIPTION	GRAPHIC SYMBOLS



DRAWIN. BY	DESIGN BY
D.H.JEONG	B.H.HWAN
2025.04.14	2025.04.1

CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE SCHEMATIC SYMBOLS 4	SH. NO. 023
I.H.BANG		WORK NAME 부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 030
2025.04.14				

1. CODES AND STANDARDS OF CONTROL PANEL

ALL COMPONENT, DESIGN, MANUFACTURING AND TESTING OF THE EQUIPMENT WILL CONFIRM TO THE LATEST EDITION AS FOLLOWS ;

- [KS] : KOREAN INDUSTRIAL STANDARDS
- [JIS] : JAPANESE INDUSTRIAL STANDARDS
- [JEM] : JAPAN ELECTRICAL MANUFACTURERS' ASSOCIATION
- [IEC] : INTERNATIONAL ELECTROCHINICAL COMMISSION

2. INPUT POWER SOURCE OF CONTROL PANEL

-MAIN MOTION & UTILITY POWER SUPPLY	<input checked="" type="checkbox"/> AC 480V, 3PH	<input checked="" type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz
	<input type="checkbox"/> AC 440V, 3PH	<input type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz
	<input checked="" type="checkbox"/> AC 380V, 3PH, 4W	<input checked="" type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz
-CONTROL POWER SUPPLY	<input checked="" type="checkbox"/> AC 220V, 1PH	<input checked="" type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz
	<input type="checkbox"/> AC 110V, 1PH	<input type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz
	<input checked="" type="checkbox"/> DC 24V		
-LIGHTING POWER SUPPLY	<input checked="" type="checkbox"/> AC 220V, 1PH	<input checked="" type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz
	<input type="checkbox"/> AC 110V, 1PH	<input type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz

3. PHASE IDENTIFICATION MARKING COLOR OF POWER CONDUCTOR IN CONTROL PANEL

REFERENCE TO SHEET No. 032 (WIRING INSTRUCTION)

4. NAME PLATE OF CONTROL PANEL

4-1. MAIN AND METER (INDOOR)

	LETTERING COLOR	BACKGROUND COLOR
<input type="checkbox"/> ACRYL	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE
<input checked="" type="checkbox"/> PHENOLIC	<input checked="" type="checkbox"/> BLACK, <input type="checkbox"/> WHITE	<input type="checkbox"/> BLACK, <input checked="" type="checkbox"/> WHITE
<input type="checkbox"/> ALUMINUM	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE
<input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE

4-2. OUT-DOOR

	LETTERING COLOR	BACKGROUND COLOR
<input type="checkbox"/> ALUMINUM	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE	<input type="checkbox"/> BLACK, <input type="checkbox"/> WHITE
<input checked="" type="checkbox"/> STAINLESS STEEL	<input checked="" type="checkbox"/> BLACK, <input type="checkbox"/> WHITE	<input type="checkbox"/> BLACK, <input checked="" type="checkbox"/> WHITE

4-3. CONTROL SWITCH

<input checked="" type="checkbox"/> SCHNEIDER	<input checked="" type="checkbox"/> WHITE ENGRAVING	<input checked="" type="checkbox"/> BLACK BACKGROUND
<input checked="" type="checkbox"/> MAKER STANDARD (MATERIAL)		

4-4. COMPONENT LABEL :

MAKER STANDARD

5. INTERNAL CABLE OF CONTROL PANEL

-POWER CABLE	<input checked="" type="checkbox"/> 0.6/1kV 60228 KS IEC CLASS5 UL44 XHHW/SIS, Min.2.5sqmm
-GROUND CABLE	<input checked="" type="checkbox"/> 450/750V, 60227 KS IEC, Min.2.5sqmm
-CONTROL CABLE	<input checked="" type="checkbox"/> 450/750V, 60227 KS IEC, Min.2.5sqmm
-PLC CONTROL CABLE INPUT, OUTPUT SIGNAL	<input checked="" type="checkbox"/> 450/750V, 60227 KS IEC, Min.1.5sqmm
-DC CONTROL(24VDC)	<input checked="" type="checkbox"/> UL1007 (AWG#18)
	<input checked="" type="checkbox"/> MAKER STANDARD
	<input checked="" type="checkbox"/> 450/750V, 60227 KS IEC, Min.1.5sqmm

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DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	GENERAL SPECIFICATION (1/2)	030
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 031

6. CABLE COLOR OF CONTROL PANEL

CABLE	COLOR	REMARK
AC POWER CABLE	<input checked="" type="checkbox"/> BLACK	POWER ONLY
DC POWER CABLE	<input checked="" type="checkbox"/> BLACK	
AC CONTROL CABLE	<input checked="" type="checkbox"/> YELLOW	CONTROL ONLY
DC CONTROL CABLE	<input checked="" type="checkbox"/> RED(+), BLUE(-)	
GROUND	<input checked="" type="checkbox"/> GREEN/YELLOW	
SPECIAL CABLE	<input checked="" type="checkbox"/> MAKER STANDARD	

9. COMPRESSION JOINT TERMINAL OF CONTROL PANEL

-POWER CABLE	<input checked="" type="checkbox"/> RING TYPE (STANDARD)	<input type="checkbox"/> FORK TYPE
	<input checked="" type="checkbox"/> FERRULE (IF NEED)	
-CONTROL CABLE	<input checked="" type="checkbox"/> RING TYPE (STANDARD)	<input type="checkbox"/> FORK TYPE
	<input checked="" type="checkbox"/> FERRULE	

7. INSULATION TUBE OF CONTROL PANEL

-BUSBAR	<input checked="" type="checkbox"/> COPPER	<input type="checkbox"/> ALUMINUM
	<input type="checkbox"/> HEAT SHRINKABLE TUBE	<input checked="" type="checkbox"/> BARE TINNED
	<input type="checkbox"/> VINYL TUBE	
	<input type="checkbox"/> BARE BAR	
-POWER CABLE	<input checked="" type="checkbox"/> HEAT SHRINKABLE TUBE	<input type="checkbox"/> VINYL TUBE
-CONTROL CABLE	<input checked="" type="checkbox"/> VINYL WHITE TUBE	
	<input checked="" type="checkbox"/> MAKER STANDARD	
-GROUNDING BAR	<input checked="" type="checkbox"/> BARE BAR	

8. TERMINAL BLOCK OF CONTROL PANEL

-POWER TERMINAL BLOCK	<input checked="" type="checkbox"/> RING TYPE
	<input checked="" type="checkbox"/> TENSION CLAMP TYPE
-CONTROL TERMINAL BLOCK	<input checked="" type="checkbox"/> TENSION CLAMP TYPE

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DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	GENERAL SPECIFICATION (2/2)	031
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH.
						032

0 / A

1 / B

2 / C

3 / D

4 / E

5 / F

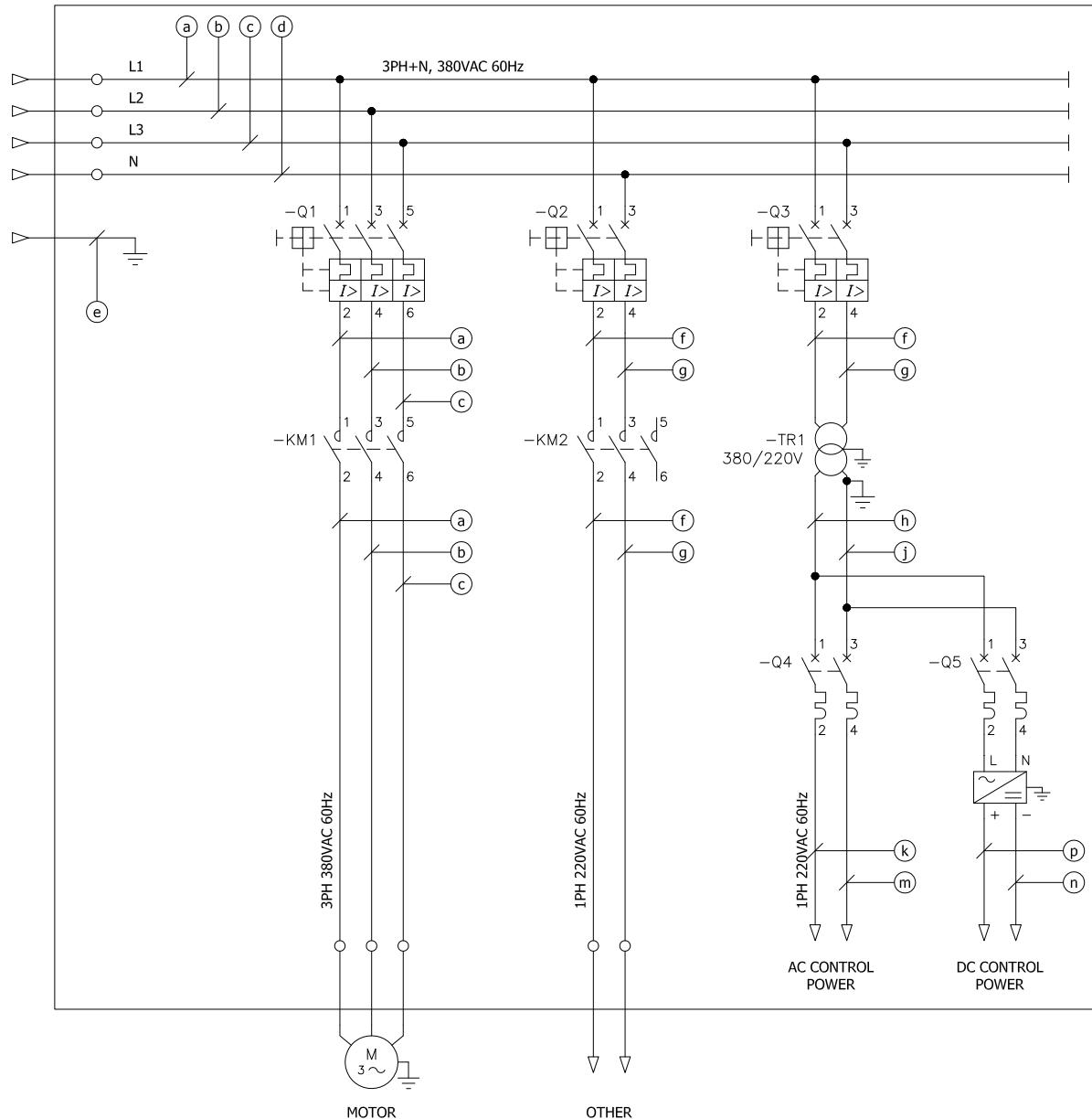
6 / G

7 / H

8 / J

9 / K

* EXAMPLE CIRCUIT



* COLOR CODE (APPLIED KS C IEC 60446)

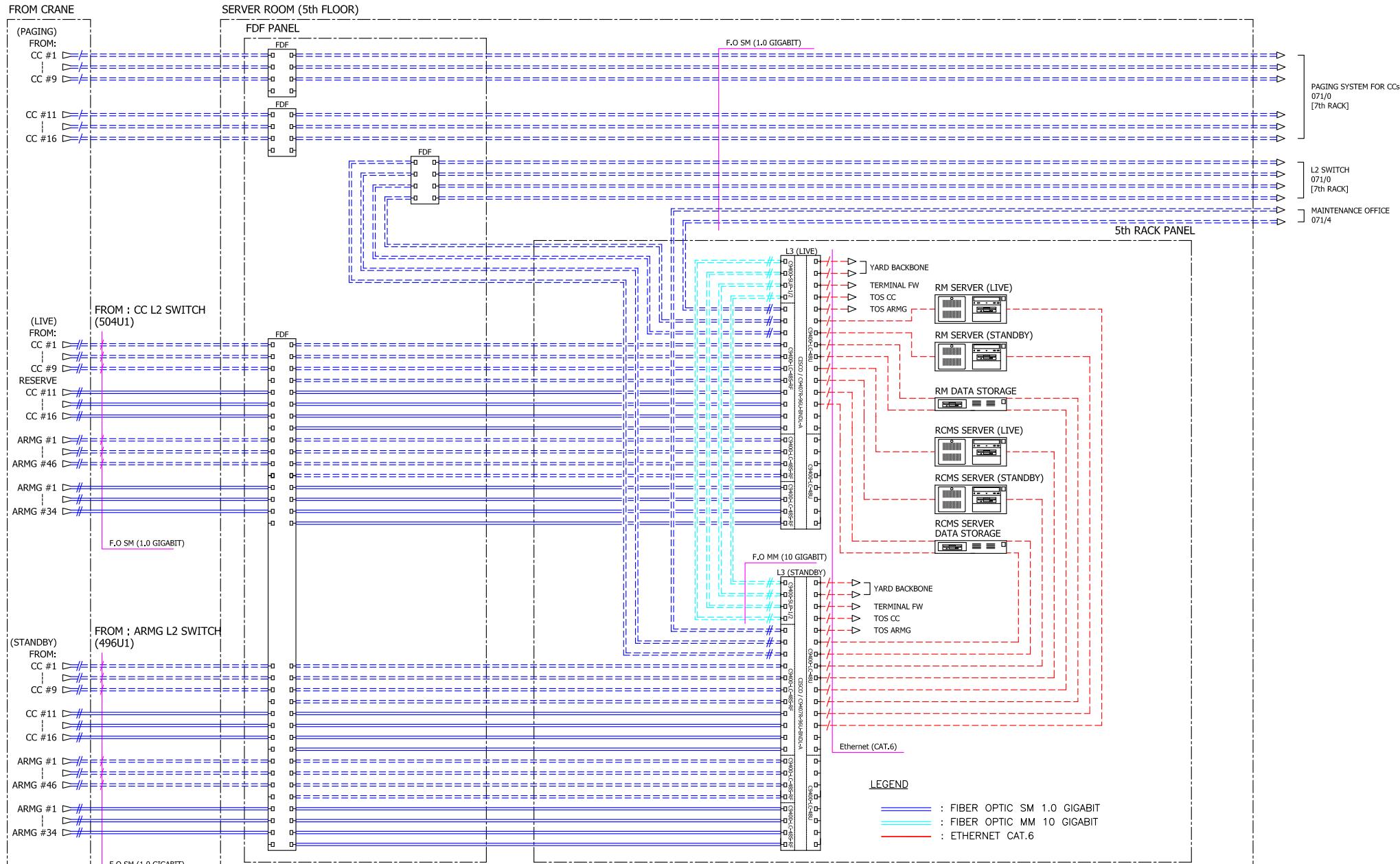
APPLICATION	EXAMPLE CIRCUIT	CABLE COLOR	COLOR CODE LABEL (INSULATION TUBE)	CABLE SIZE
AC POWER CIRCUIT PHASE L1	(a)	BK	BN	$\geq 2.5\text{sqmm}$
AC POWER CIRCUIT PHASE L2	(b)	BK	BN	$\geq 2.5\text{sqmm}$
AC POWER CIRCUIT PHASE L3	(c)	BK	GY	$\geq 2.5\text{sqmm}$
NEUTRAL OF AC POWER CIRCUIT	(d)	BK	BU	$\geq 2.5\text{sqmm}$
PROTECTIVE EARTH (PE)	(e)	GN/YE	GN/YE	$\geq 2.5\text{sqmm}$
AC POWER SINGLE PHASE L1~L3	(f)	BK	BN/BK/GY or WH	$\geq 2.5\text{sqmm}$
AC POWER SINGLE PHASE N	(g)	BK	BU	$\geq 2.5\text{sqmm}$
AC CONTROL POWER SINGLE PHASE L	(h) (k)	YE	WH	$\geq 1.5\text{sqmm}$
AC CONTROL POWER SINGLE PHASE N	(j) (m)	YE	WH	$\geq 1.5\text{sqmm}$
DC POWER CIRCUIT ("+")	P	BK	RD	$\geq 2.5\text{sqmm}$
DC POWER CIRCUIT ("-")	N	BK	BU	$\geq 2.5\text{sqmm}$
DC CONTROL CIRCUIT ("+")	(p)	RD	WH	$\geq 1.5\text{sqmm}$
DC CONTROL CIRCUIT ("-")	(n)	BU	WH	$\geq 1.5\text{sqmm}$
PLC I/O CIRCUIT (AC)		YE	WH	$\geq 0.75\text{sqmm}$
PLC I/O CIRCUIT (DC "+")		RD	WH	$\geq 0.75\text{sqmm}$
PLC I/O CIRCUIT (DC "-")		BU	WH	$\geq 0.75\text{sqmm}$

※ If AC control power cable size is 4 SQ or more, the cable color is black.

* ABBREVIATION OF COLORS

COLOR	COLOR	COLOR	COLOR
BLACK	BK	LIGHT BLUE	LBU
BROWN	BN	VIOLET	VT
RED	RD	GRAY	GY
ORANGE	OG	WHITE	WH
YELLOW	YE	PINK	PK
GREEN	GN	GOLD	GD
BLUE	BU	TURQUOISE	TQ

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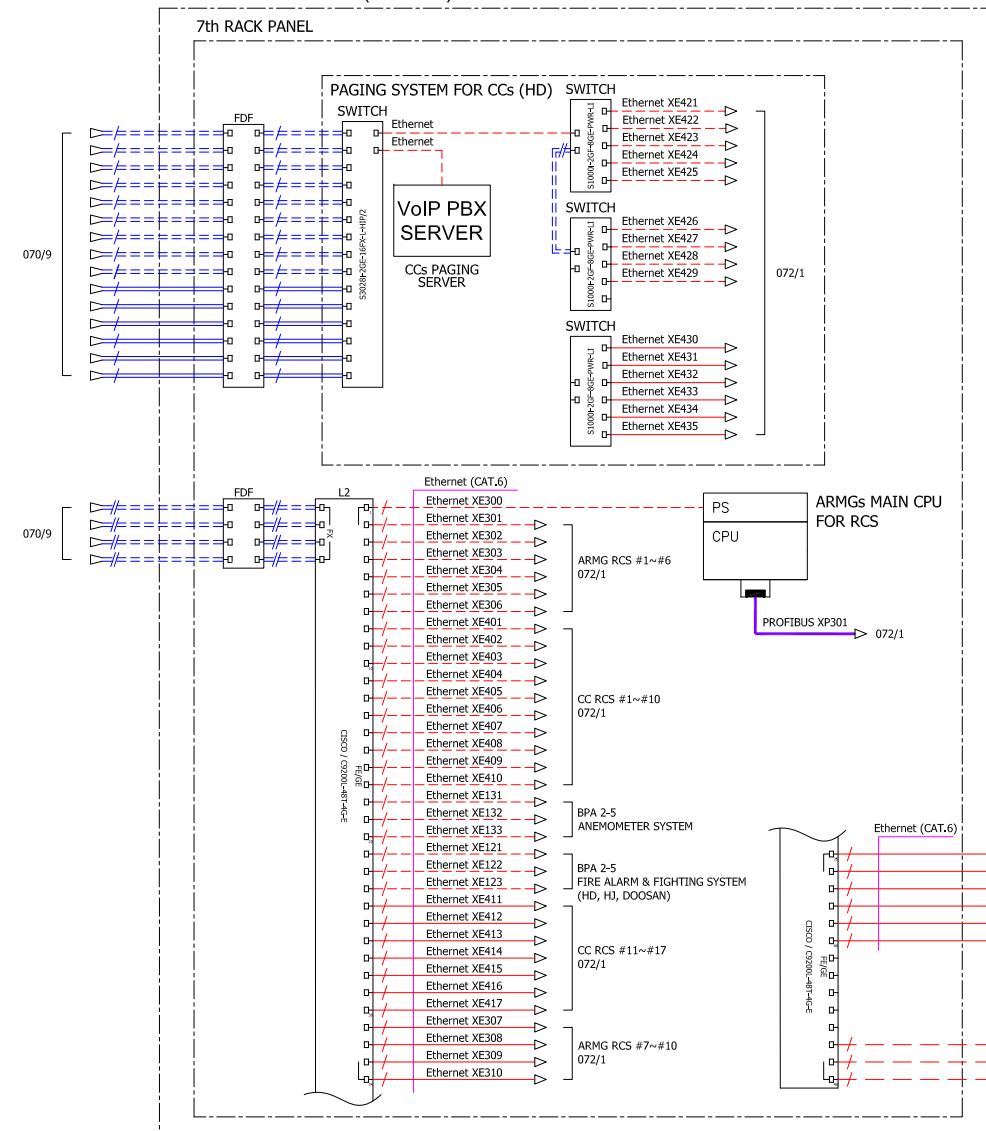


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LEGEND

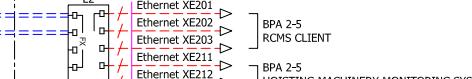
: FIBER OPTIC SM 1.0 GIGABIT
 : FIBER OPTIC MM 10 GIGABIT
 : ETHERNET CAT.6

REMOTE CONTROL CENTER (7th FLOOR)



MAINTENANCE OFFICE

TERMINAL NETWORK (OUT OF SCOPE)



RCMS CLIENT

FOR ARMGS

FOR CCs

MONITOR

PC

HOISTING MACHINERY MONITORING SYSTEM (HJ/HD)

FOR ARMGS

FOR CCs

MONITOR

PC

ANEMOMETER SYSTEM

FOR 34 x ARMG (HJ)

WARNING LIGHT

PC

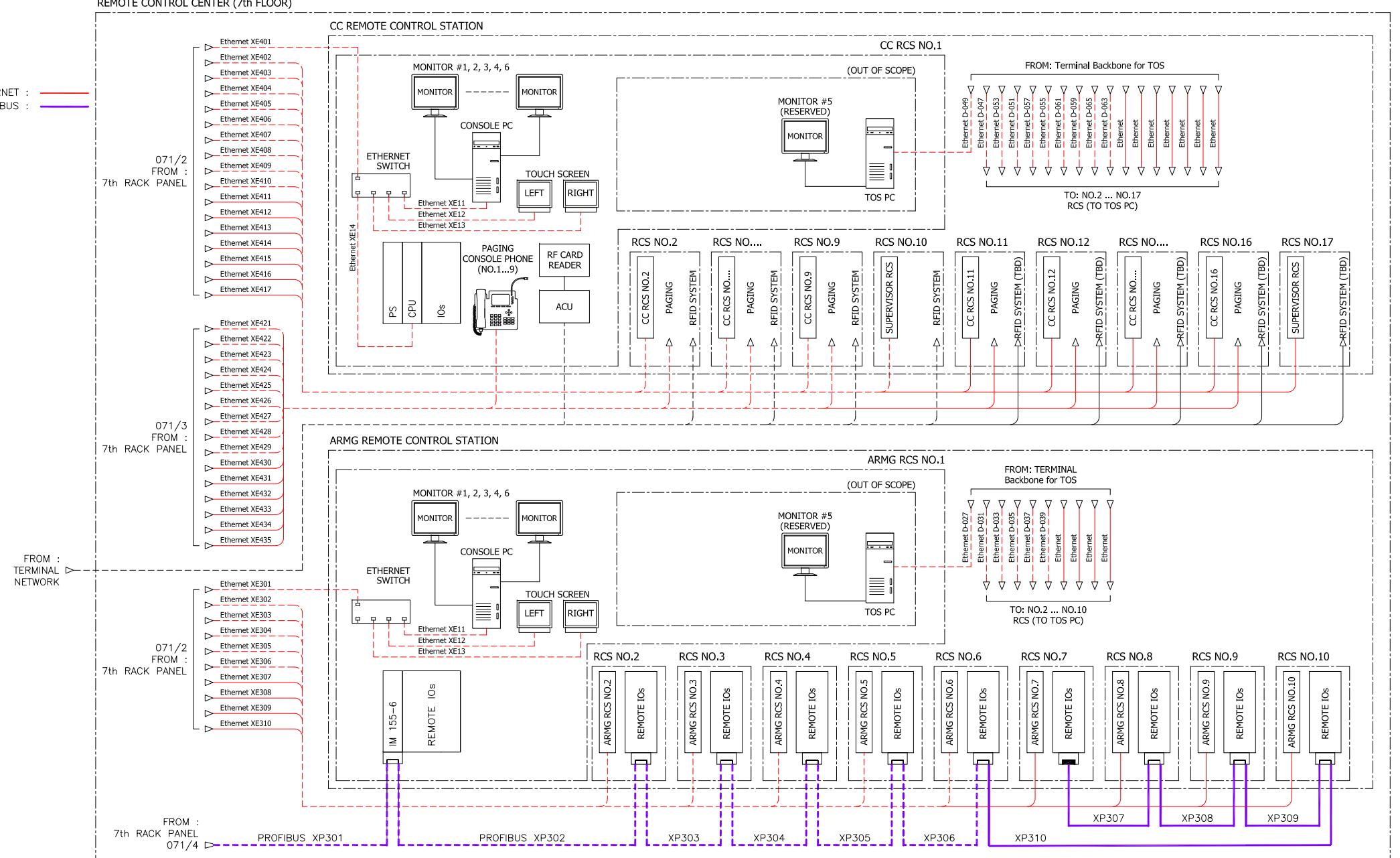
MONITOR

ARMG RCS #1~#6

072/1

ETHERNET

CAT.6

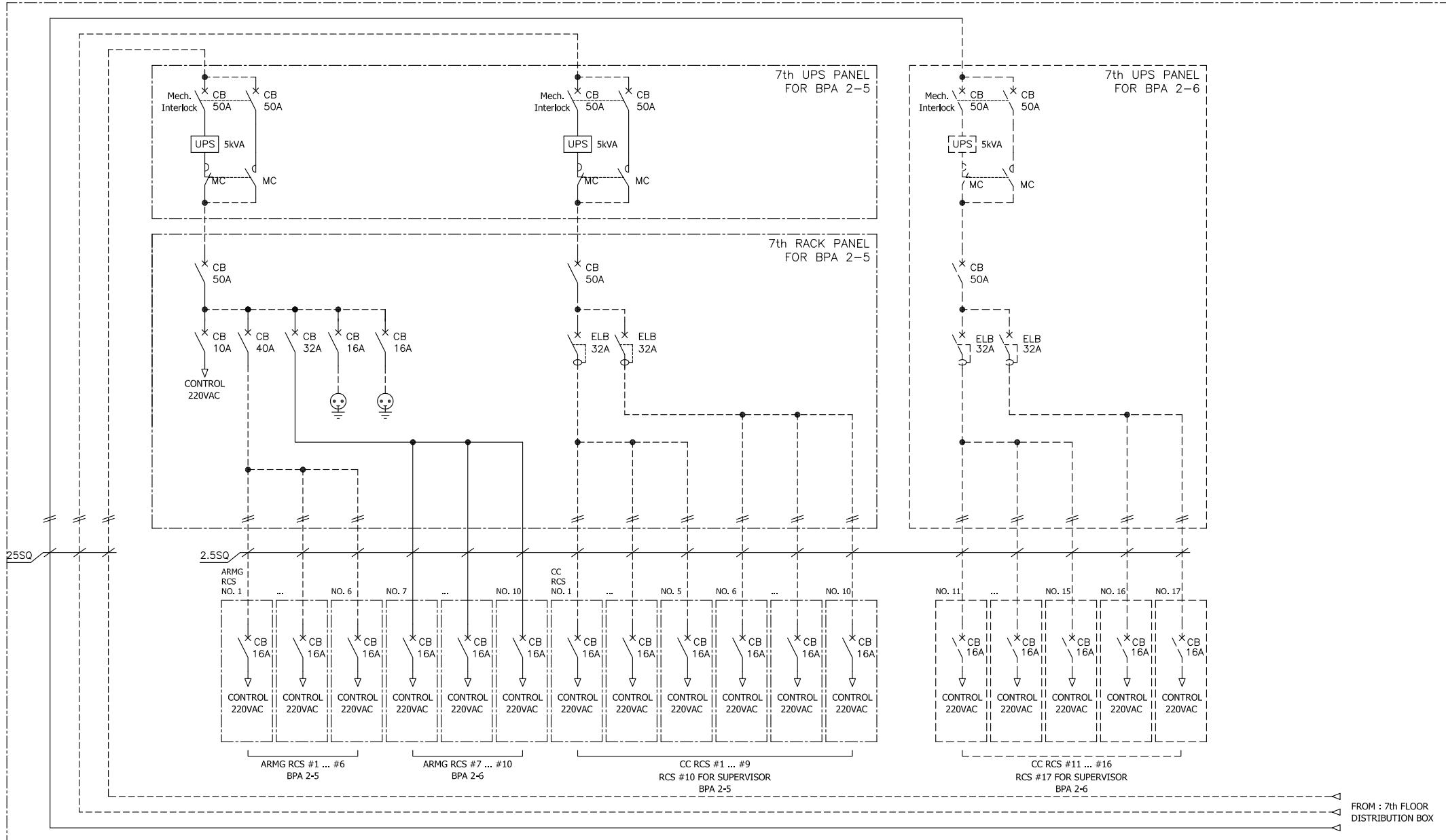


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DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	REMOTE CONTROL CENTER CONFIGURATION	072
				WORK NAME	DRAWING NO.	CONT.SH.
				부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)		073

REMOTE CONTROL CENTER (7th FLOOR)



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0 / A

1 / B

2 / C

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4 / E

5 / F

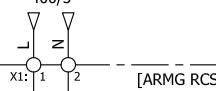
6 / G

7 / H

8 / J

9 / K

[RACK]
INCOMING
CONTROL POWER
220VAC 1PH, 60Hz
400/5



130CB1

16A

400RC7

1

2

x1:

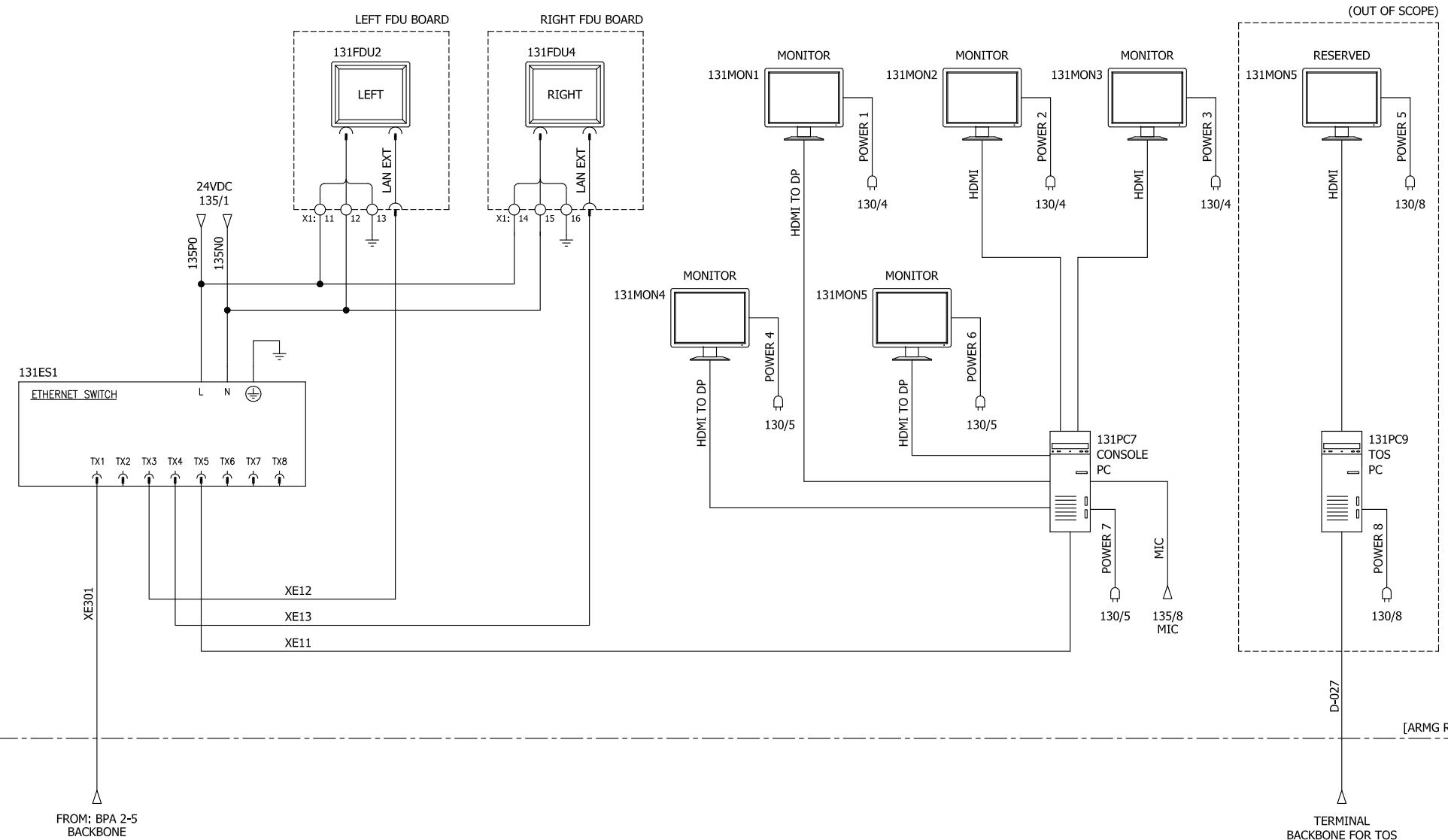
2

1

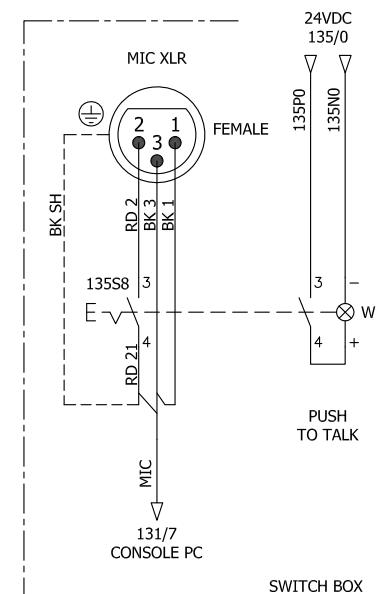
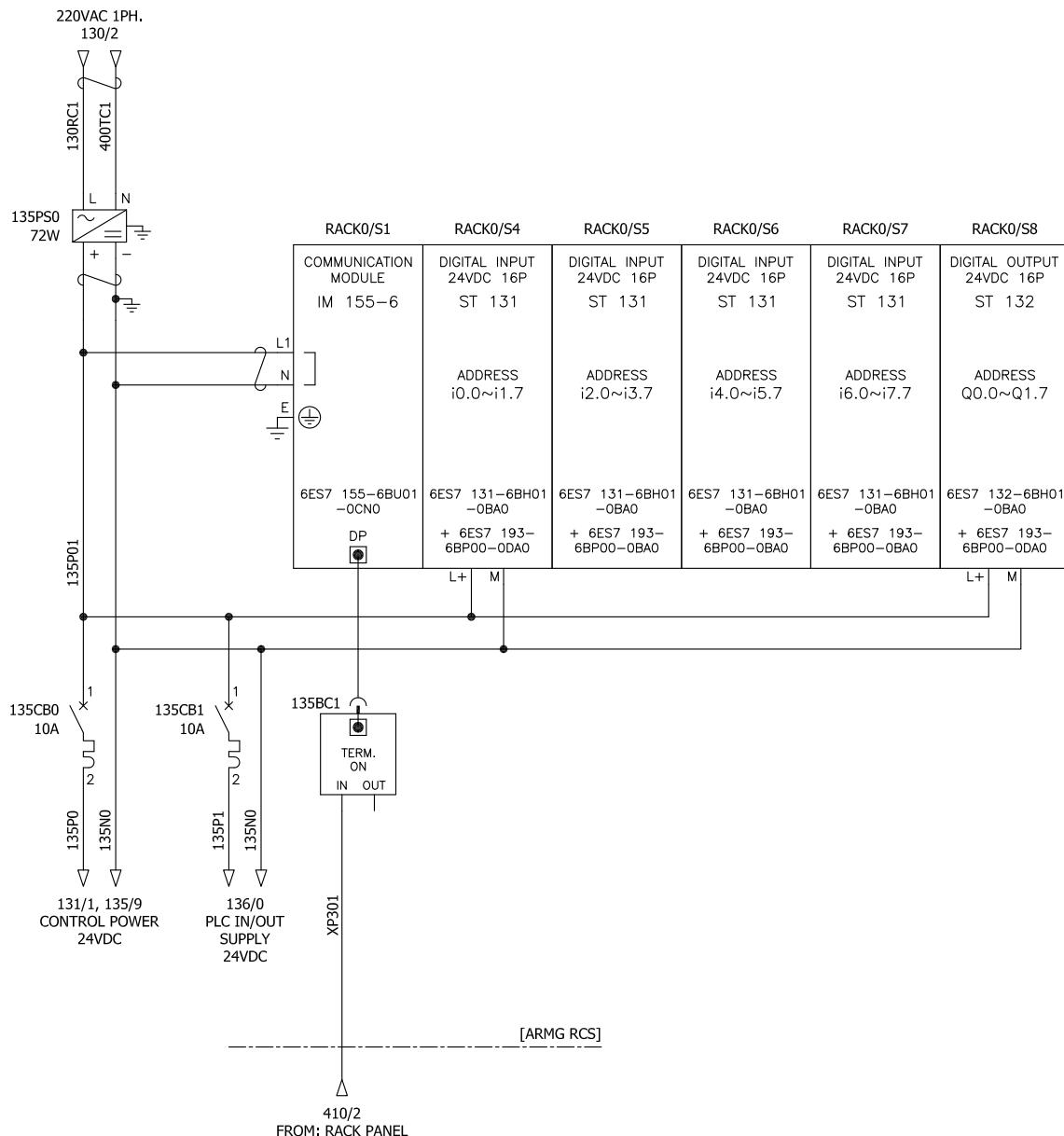
x1:

2

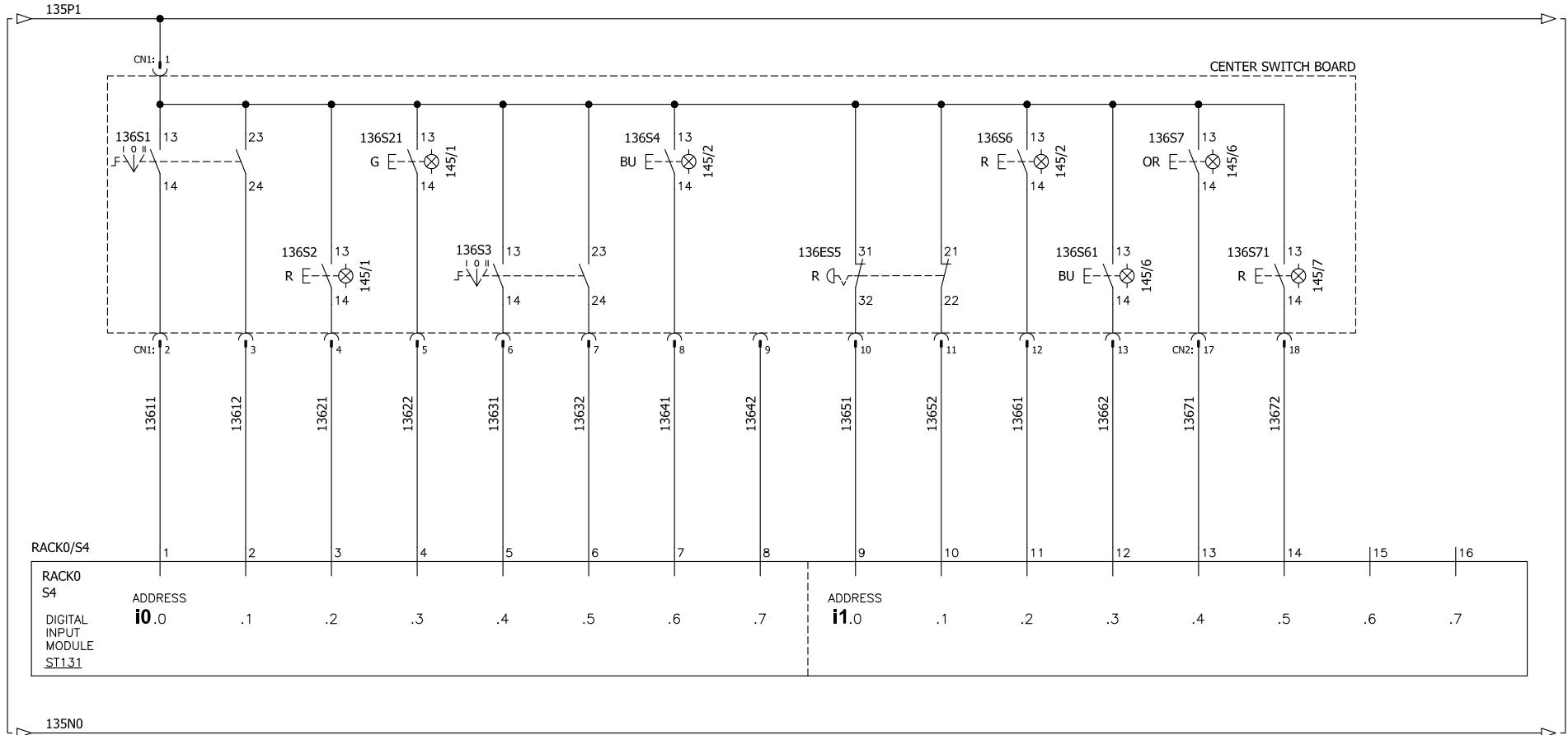
1</div



5			
4			
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5			
4			
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**i0**

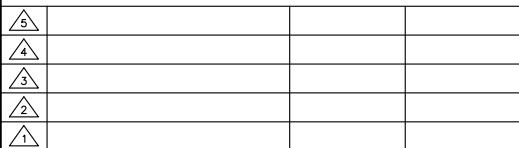
.0	FLIPPER UP
.1	FLIPPER DOWN
.2	FAULT RESET
.3	MICRO MOTION SELECT

.4	TWISTLOCK LOCK
.5	TWISTLOCK UNLOCK
.6	AUTO START
.7	

i1

.0	EMERGENCY STOP
.1	EMERGENCY STOP
.2	BYPASS
.3	SPARE

.4	SPARE
.5	SPARE
.6	
.7	



0 / A

1 / B

2 / C

3 / D

4 / E

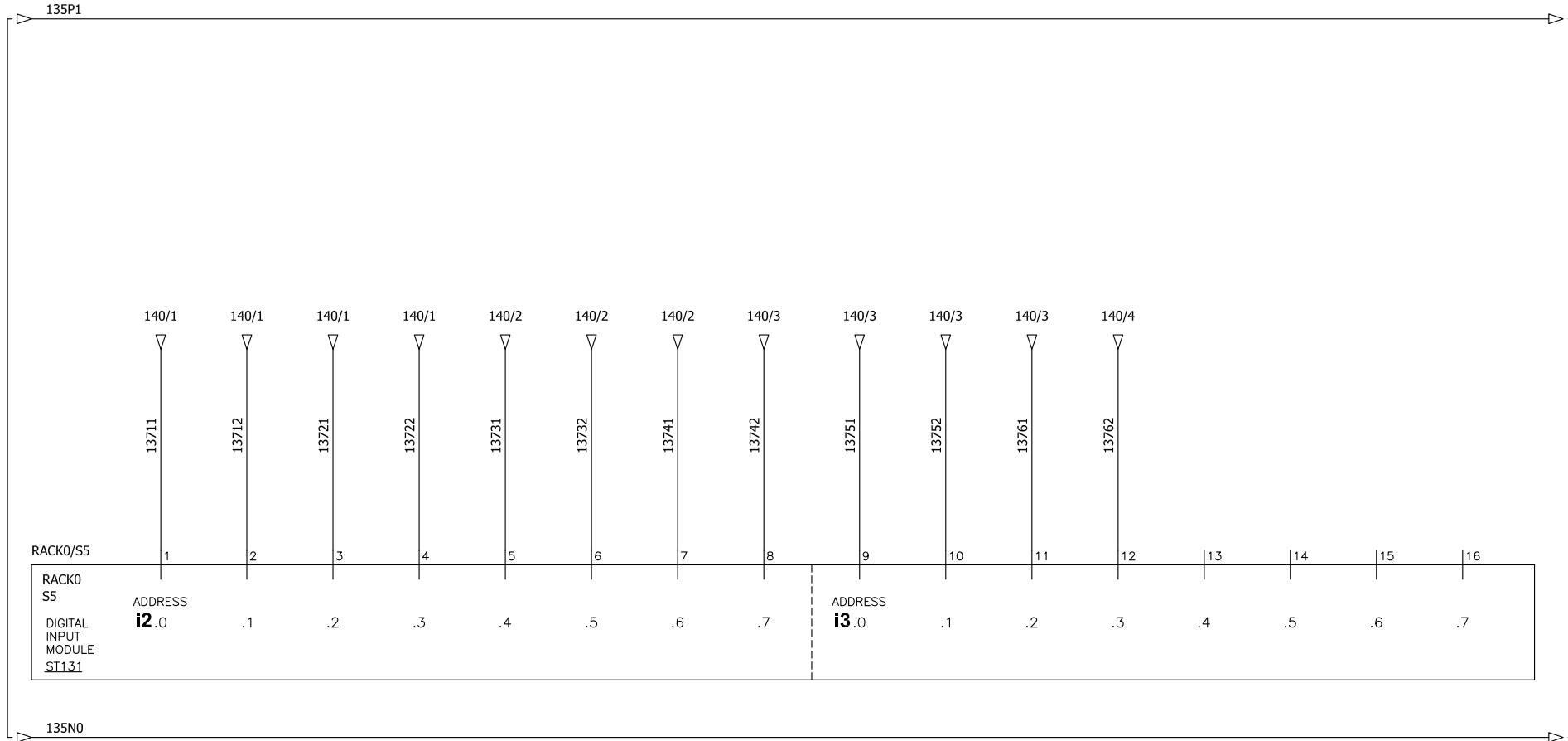
5 / F

6 / G

7 / H

8 / J

9 / K

**i2**

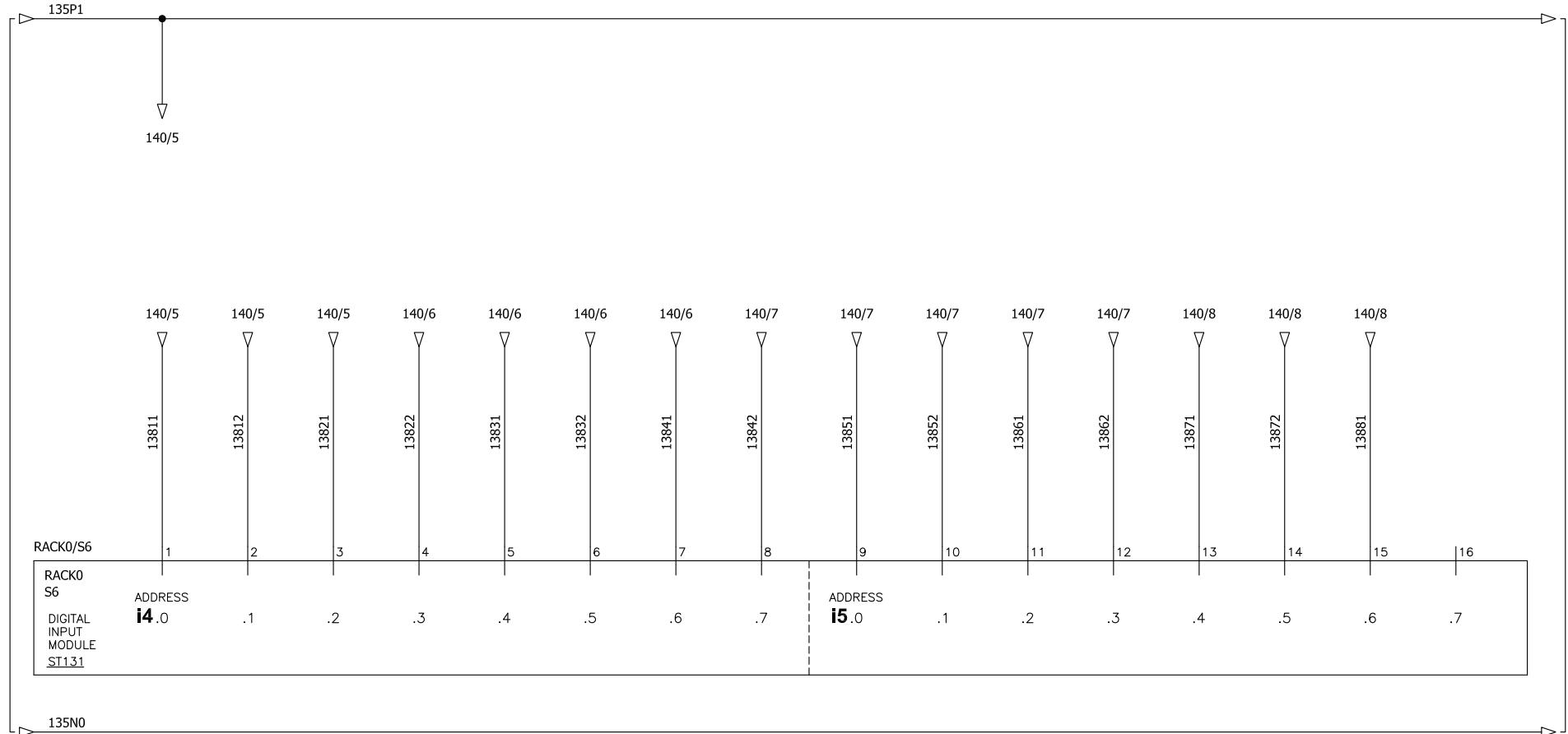
.0	TROLLEY/SKEW SW. TROLLEY LEVER CENTER
.1	TROLLEY/SKEW SW. TROLLEY FORWARD
.2	TROLLEY/SKEW SW. TROLLEY BACKWARD
.3	TROLLEY/SKEW SW. TROLLEY STEP 2

i3

.4	TROLLEY/SKEW SW. TROLLEY STEP 3
.5	TROLLEY/SKEW SW. TROLLEY STEP 4
.6	TROLLEY/SKEW SW. TROLLEY STEP 5
.7	TROLLEY/SKEW SW. SKEW CW

.4	
.5	
.6	
.7	

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**i4**

.0	HOIST/GANTRY SW. HOIST LEVER CENTER
.1	HOIST/GANTRY SW. HOIST LOWER & MM FORWARD
.2	HOIST/GANTRY SW. HOIST HOIST & MM BACKWARD
.3	HOIST/GANTRY SW. HOIST STEP 2

i5

.4	HOIST/GANTRY SW. HOIST STEP 3
.5	HOIST/GANTRY SW. HOIST STEP 4
.6	HOIST/GANTRY SW. HOIST STEP 5
.7	HOIST/GANTRY SW. GANTRY LEVER CENTER

.0	HOIST/GANTRY SW. GANTRY & MM LEFT
.1	HOIST/GANTRY SW. GANTRY & MM RIGHT
.2	HOIST/GANTRY SW. GANTRY STEP 2
.3	HOIST/GANTRY SW. GANTRY STEP 3

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0 / A

1 / B

2 / C

3 / D

4 / E

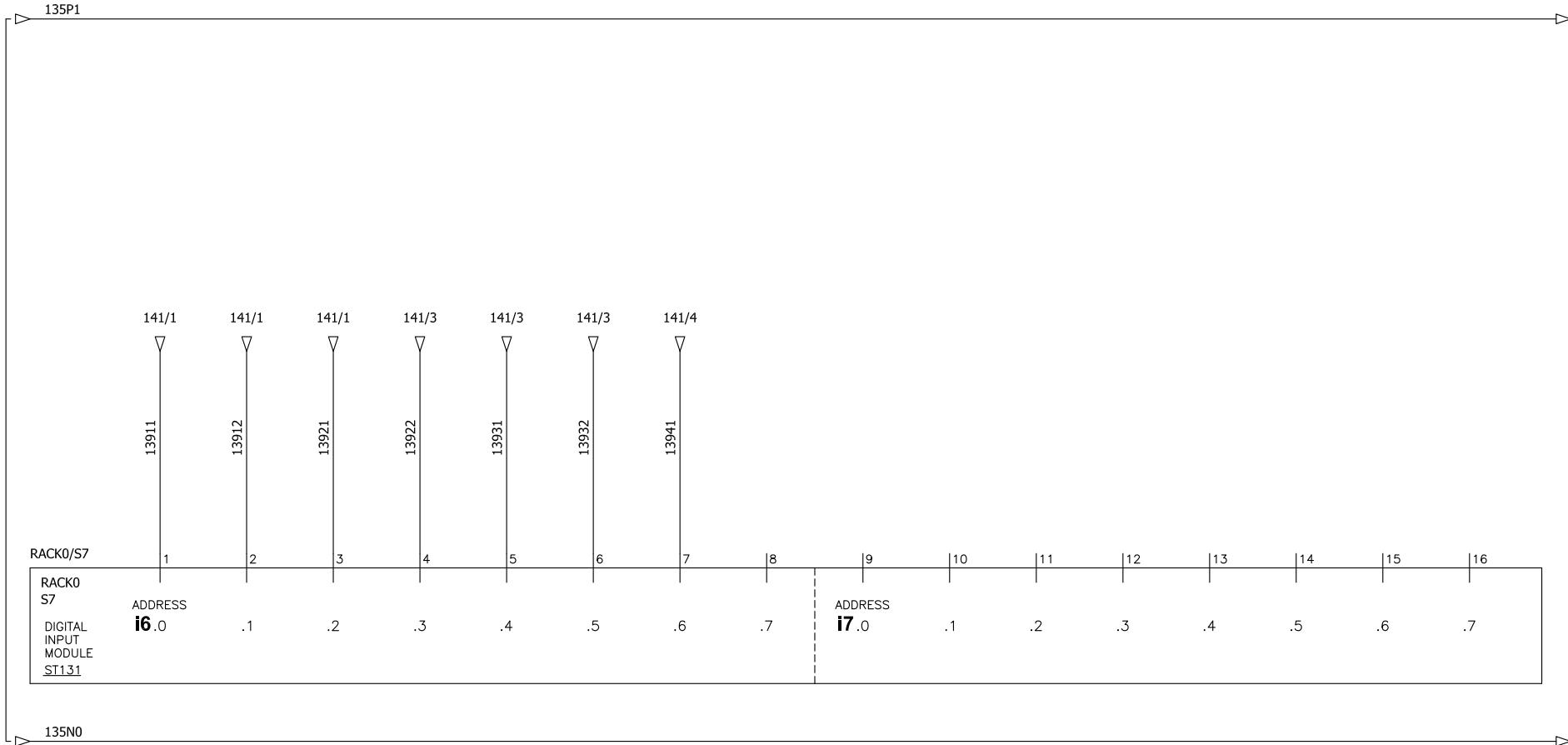
5 / F

6 / G

7 / H

8 / J

9 / K

**i6**

.0	PTZ SW, PAN LEVER CENTER
.1	PTZ SW, PAN LEFT / ZOOM OUT
.2	PTZ SW, PAN RIGHT / ZOOM IN
.3	PTZ SW, TILT LEVER CENTER

i7

.0	
.1	
.2	
.3	

.4	
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.6	
.7	

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0 / A

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2 / C

3 / D

4 / E

5 / F

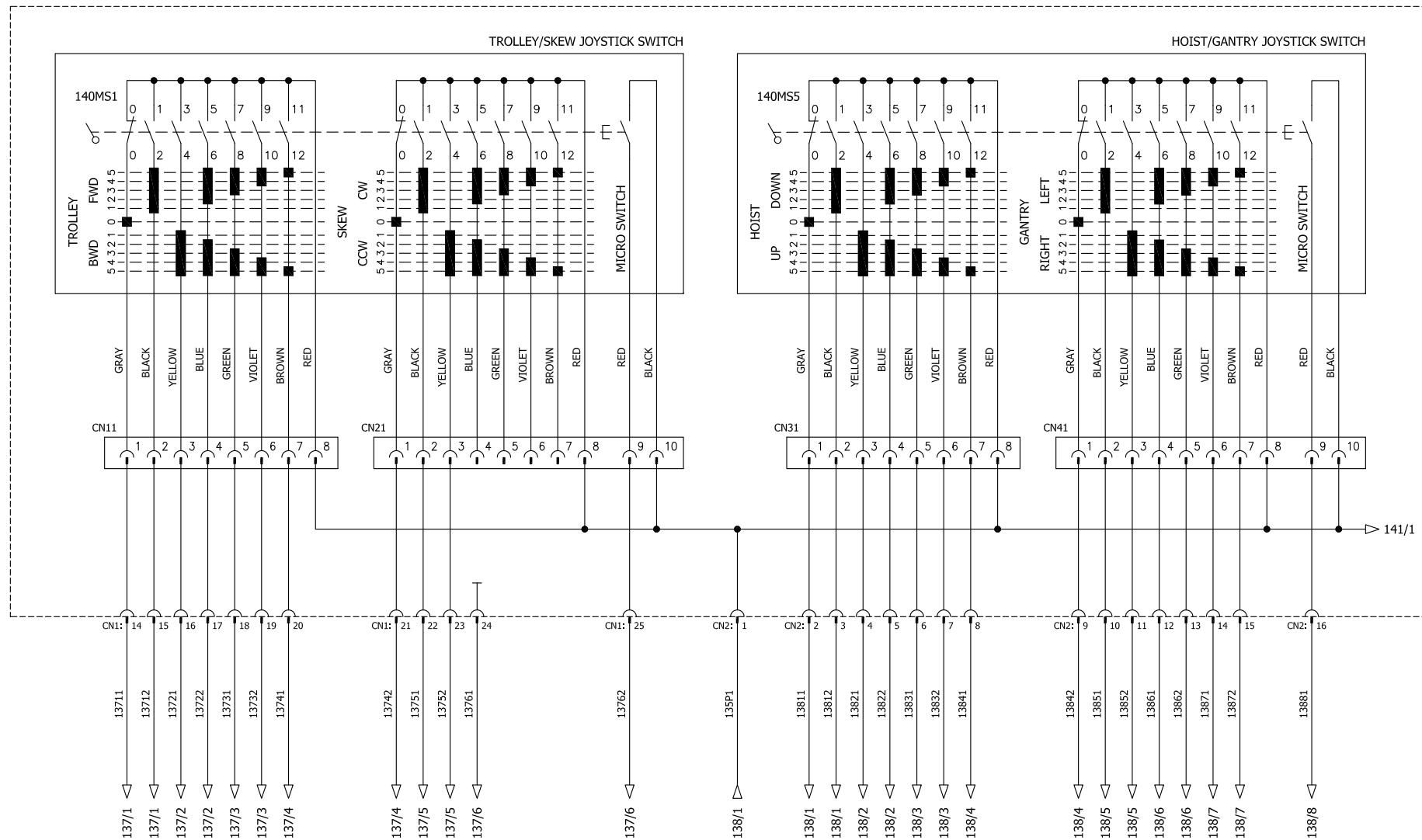
6 / G

7 / H

8 / J

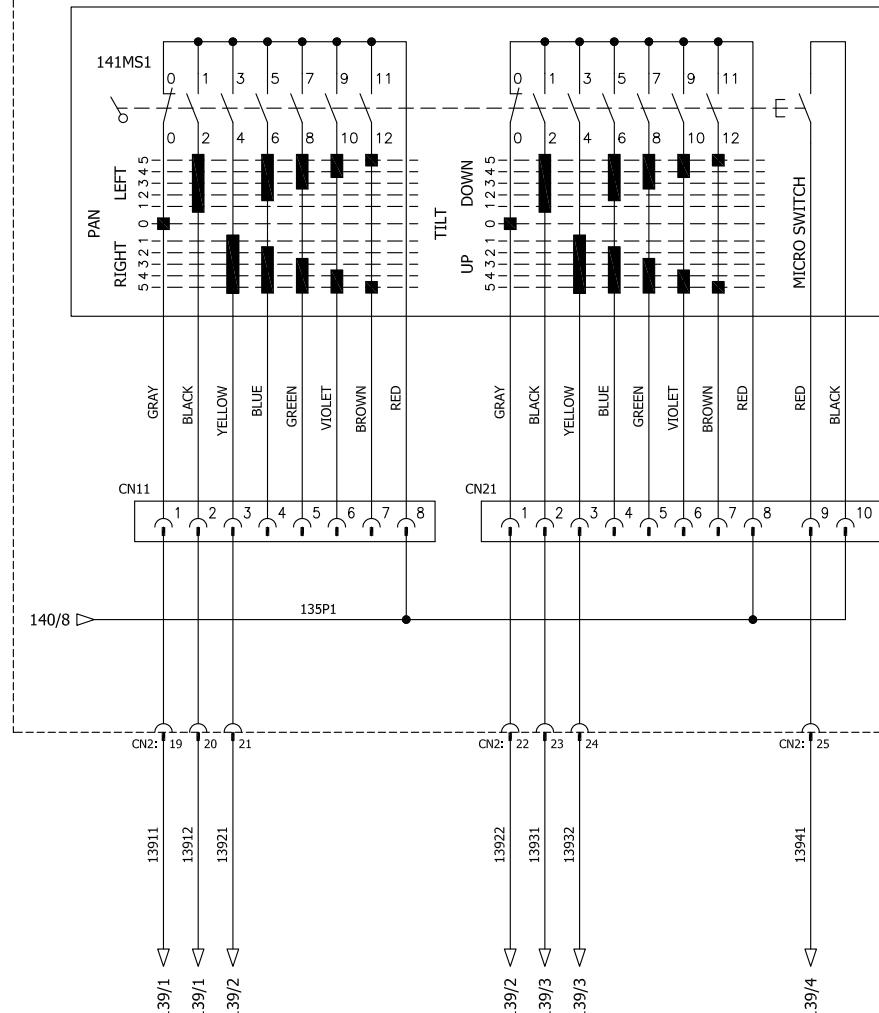
9 / K

CENTER SWITCH BOARD

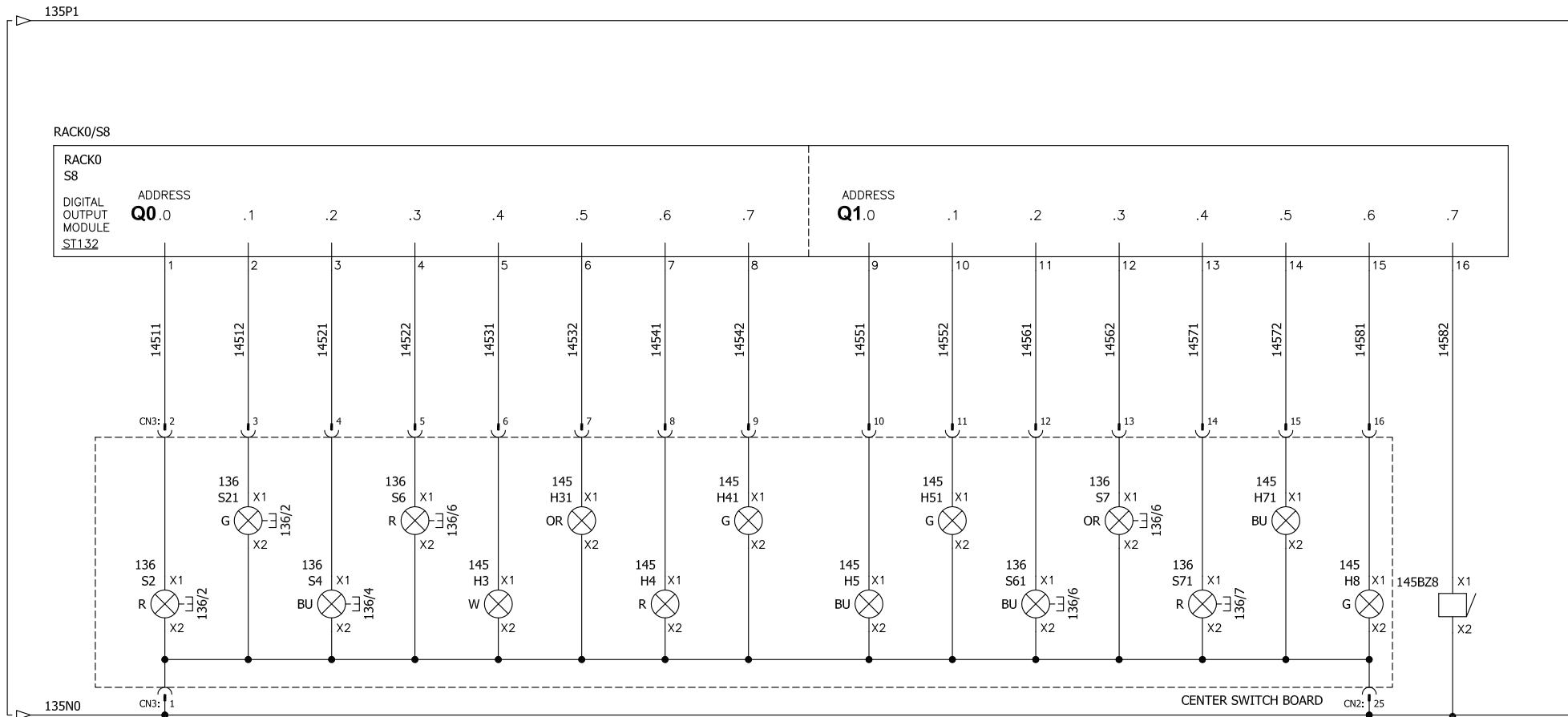


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CENTER SWITCH BOARD



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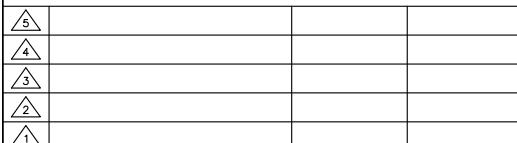


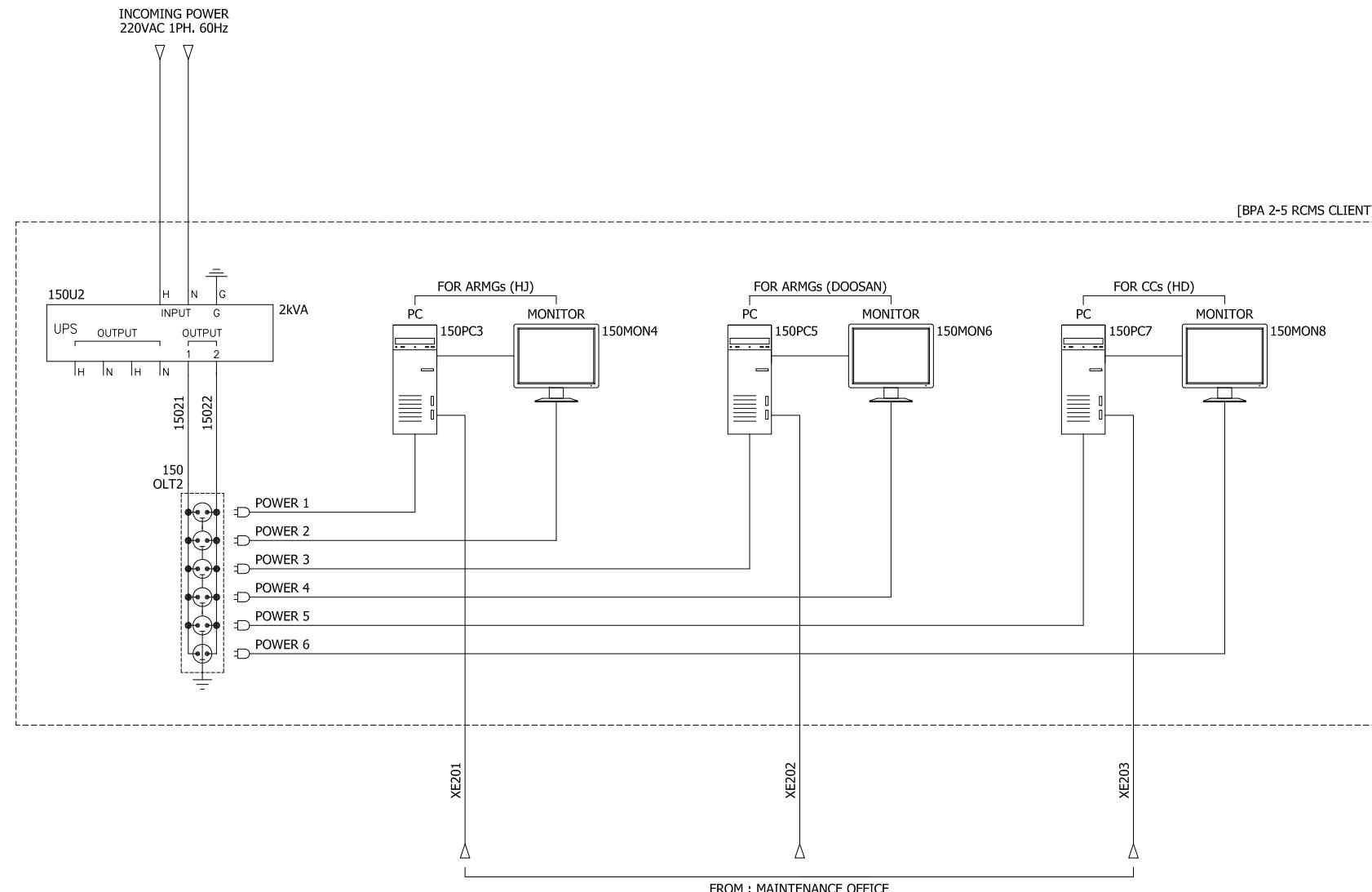
Q0

.0	FAULT RESET
.1	MICRO MOTION SELECT
.2	AUTO START
.3	BYPASS

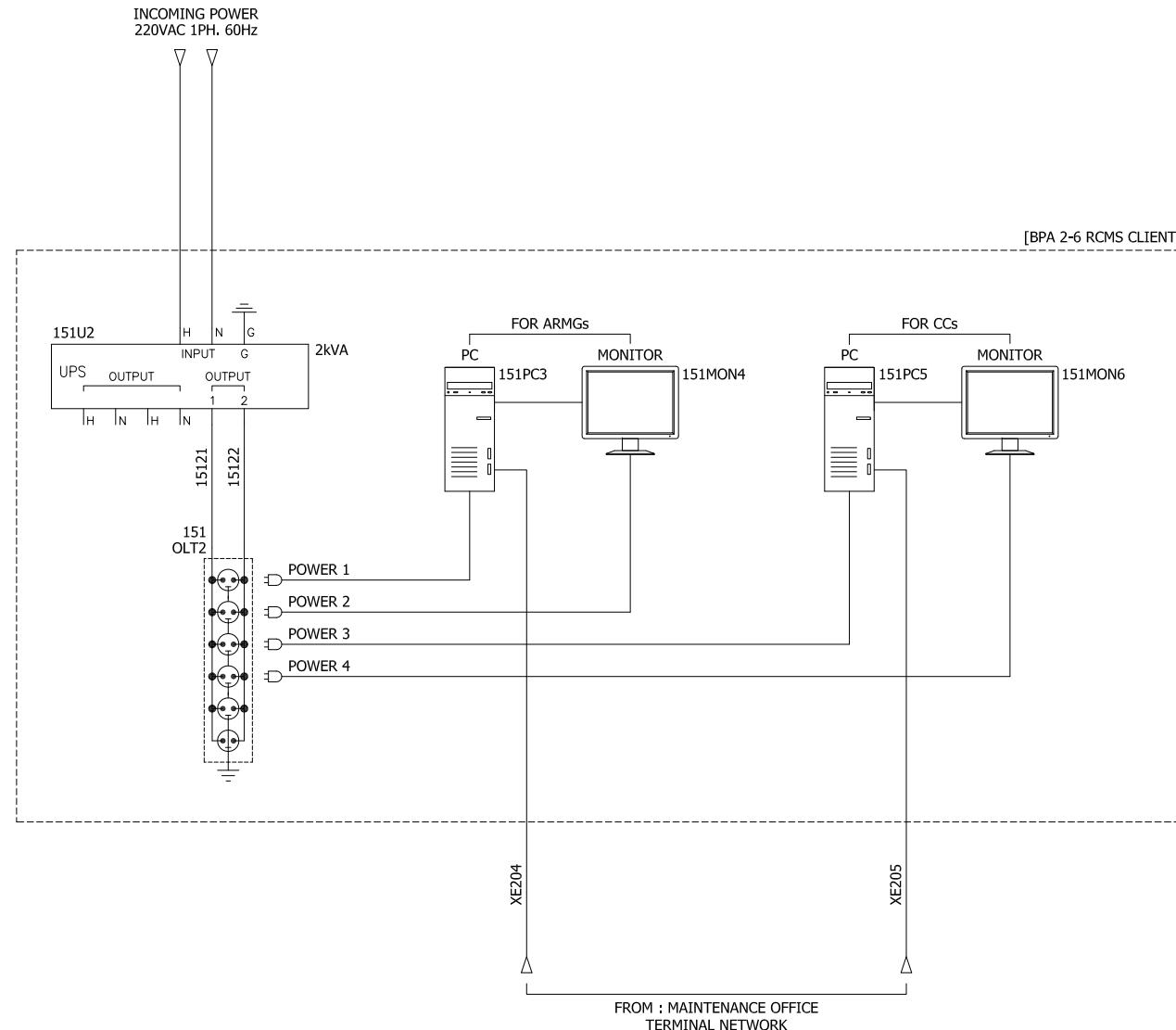
Q1

.0	READY
.1	MM HOME
.2	SPARE
.3	SPARE



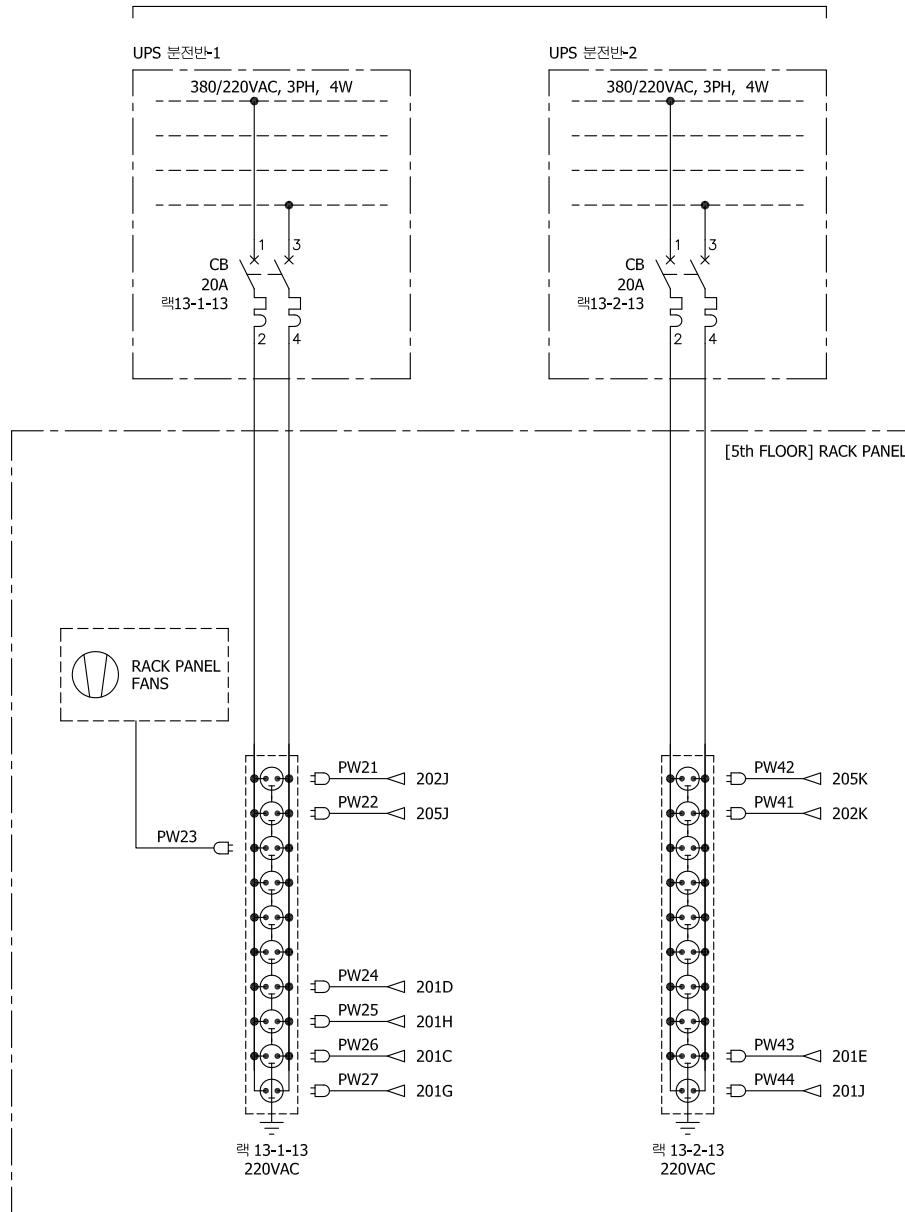


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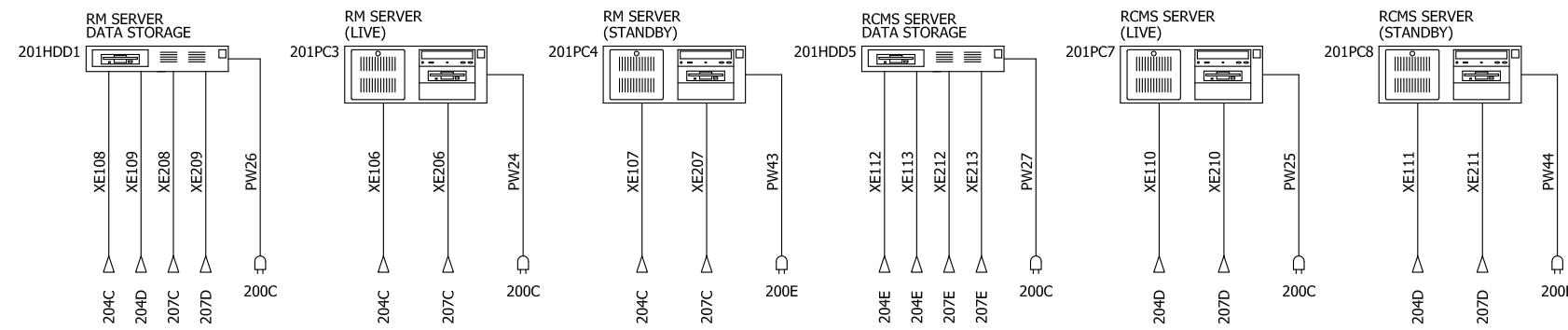


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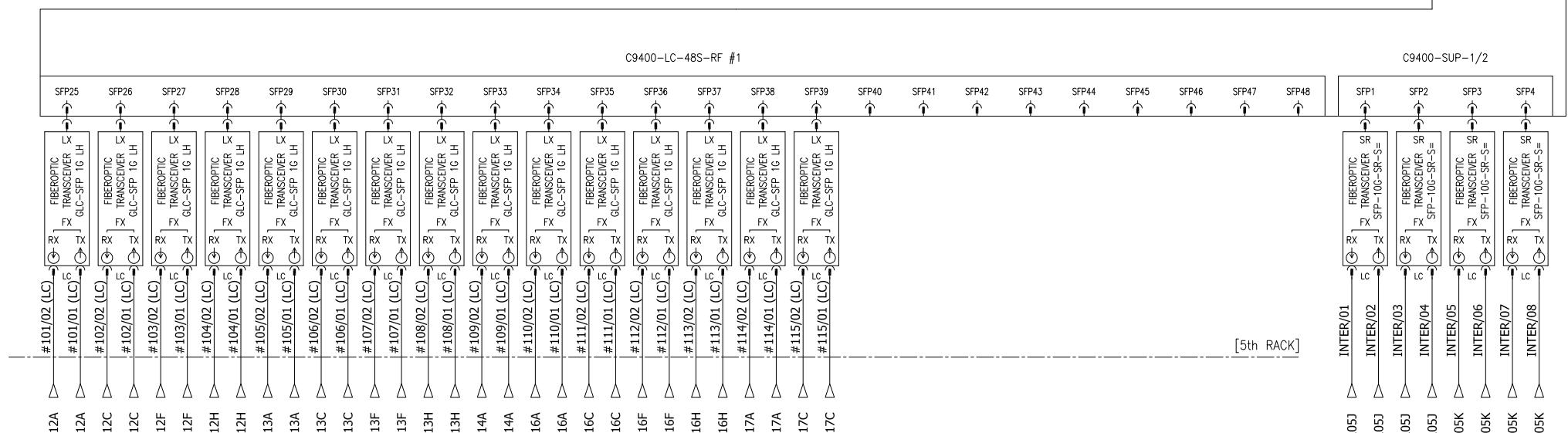
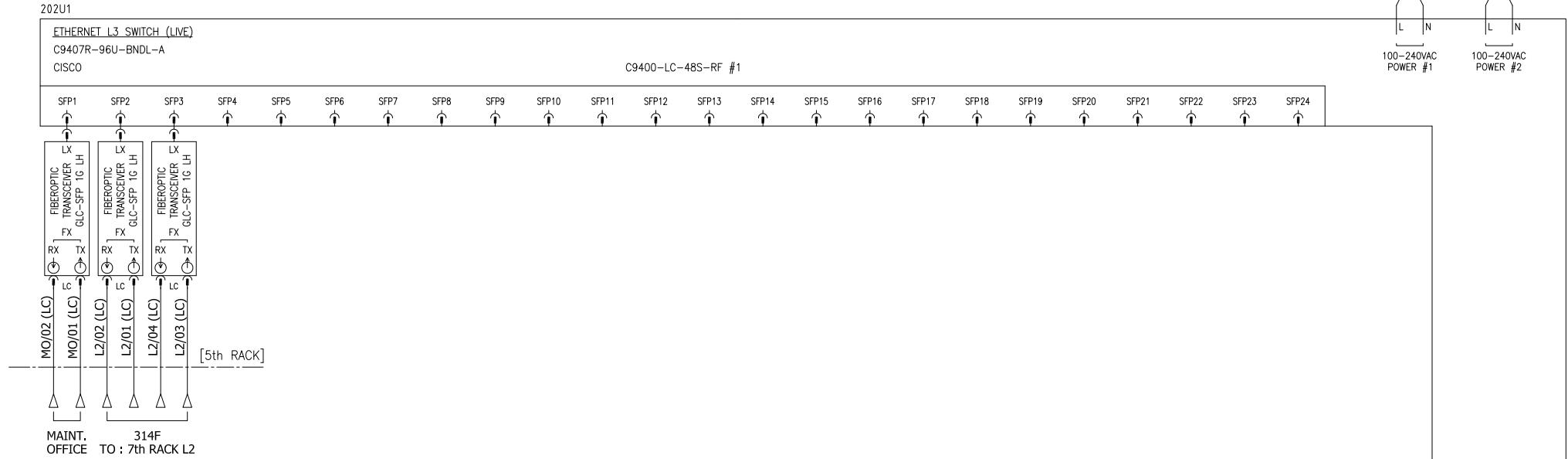
5th FLOOR SERVER ROOM COMMON DISTRIBUTION POWER SUPPLY



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7 / H

8 / J

9 / K

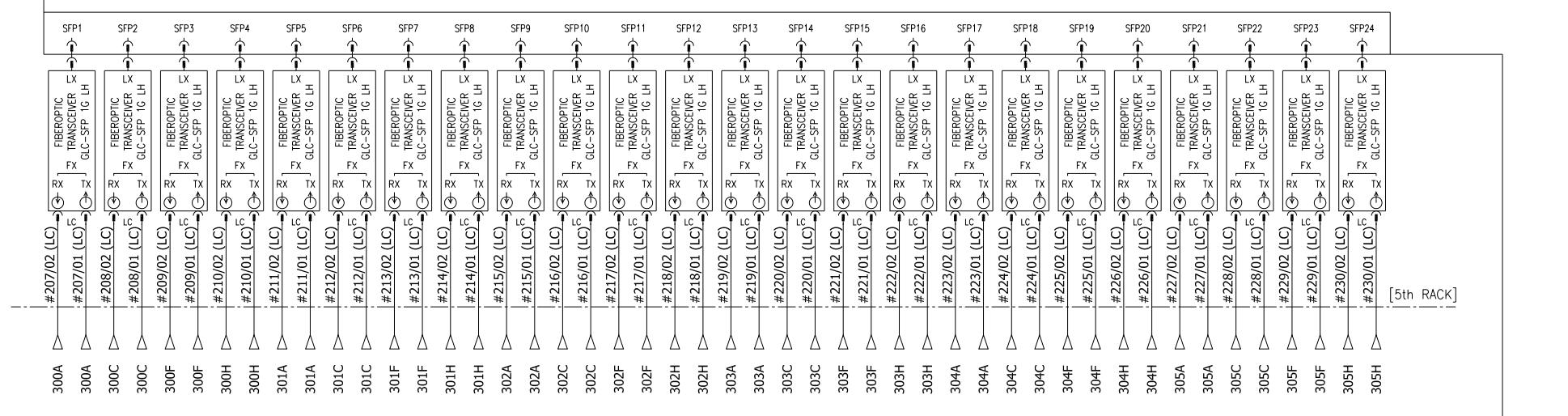
20201

ETHERNET L3 SWITCH (LIVE)

C9407R-96U-BNDL-A

CISCO

C9400-LC-48S-RF #2



5
4
3
2
1



DRAWIN. BY
D.H.JEONG
2025.04.14

DESIGN BY
B.H.HWANG
2025.04.14

CHECK. BY
I.H.BANG
2025.04.14

APPRV. BY
I.H.BANG
2025.04.14

WORK NO.
PJ24-002

WORK NAME
부산현 신항 서원 2~6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

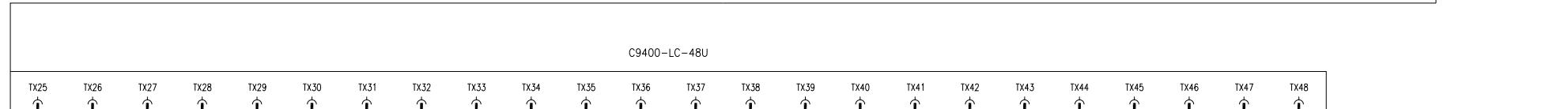
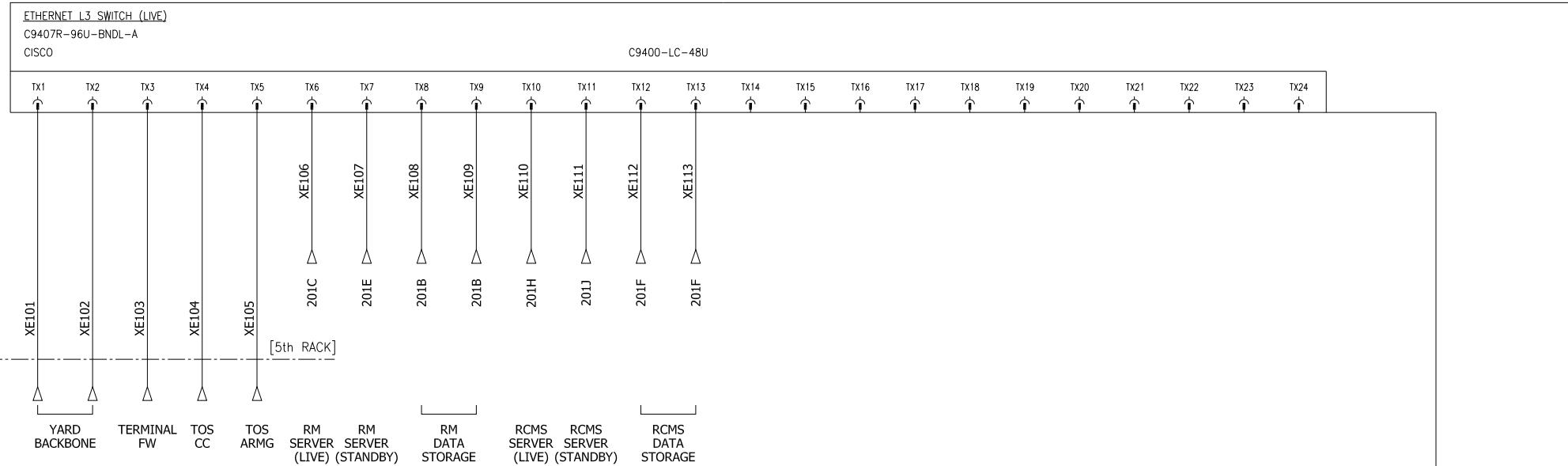
TITLE
RACK PANEL (5th FLOOR)
NETWORK

SH. NO.
203

DRAWING NO.
204

CONT.SH.
204

20201



5			
4			
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DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	RACK PANEL (5th FLOOR) NETWORK	204
WORK NAME					DRAWING NO.	CONT.SH.
부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)						205

0 / A

1 / B

2 / C

3 / D

4 / E

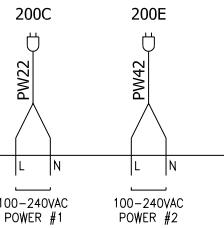
5 / F

6 / G

7 / H

8 / J

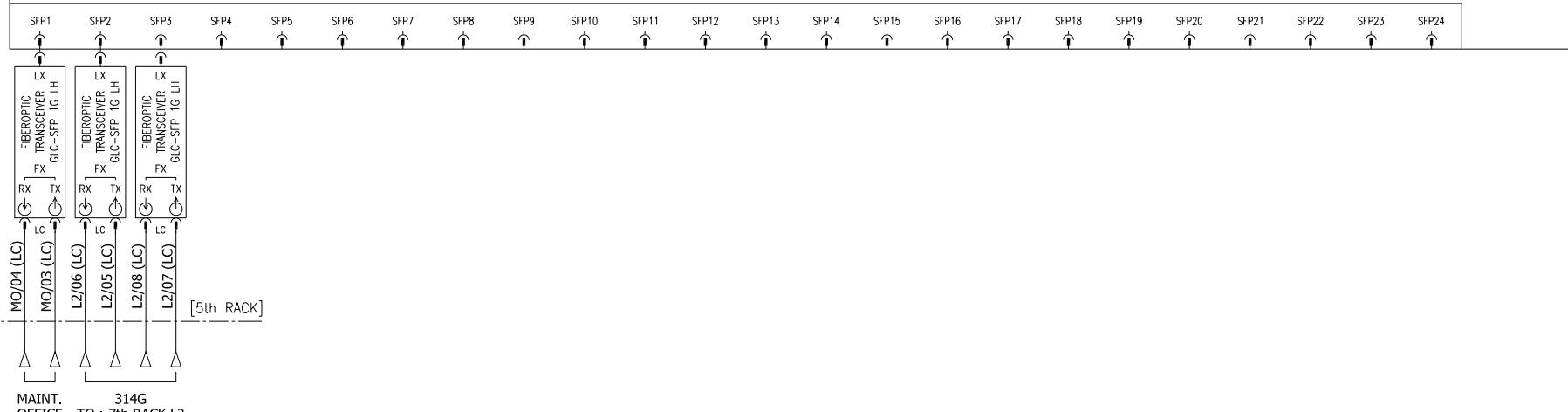
9 / K



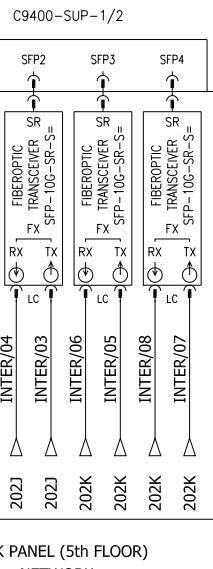
205U1

ETHERNET L3 SWITCH (STANDBY)C9407R-96U-BNDL-A
CISCO

C9400-LC-48S-RF #1



C9400-LC-48S-RF #1



5		SHIPBUILDING & CONSTRUCTION
4		SEOHO Electric Co.,Ltd.
3		
2		
1		

DRAWIN. BY
D.H.JEONG
2025.04.14DESIGN BY
B.H.HWANG
2025.04.14CHECK. BY
I.H.BANG
2025.04.14APPRV. BY
 WORK NO.
PJ24-002TITLE
RACK PANEL (5th FLOOR)
NETWORKWORK NAME
부산항 신항 서면 2~6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)DRAWING NO.
 SH. NO.
205CONT.SH.
206

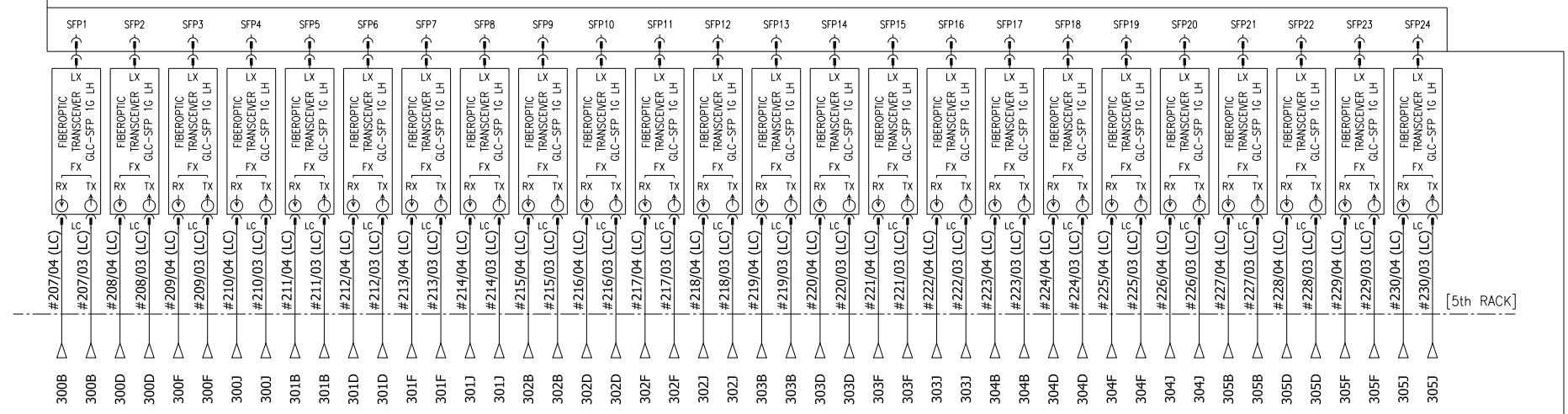
205U1

ETHERNET L3 SWITCH (STANDBY)

C9407R-96U-BNDL-A

CISCO

C9400-LC-48S-RF #2



DRAWIN. BY
D.H.JEONG
2025.04.14

DESIGN BY
B.H.HWANG
2025.04.14

CHECK. BY
I.H.BANG
2025.04.14

APPRV. BY
I.H.BANG
2025.04.14

WORK NO.
PJ24-002

WORK NAME
부산현 신항 서원 2~6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

TITLE
RACK PANEL (5th FLOOR)
NETWORK

SH. NO.
206

DRAWING NO.
207

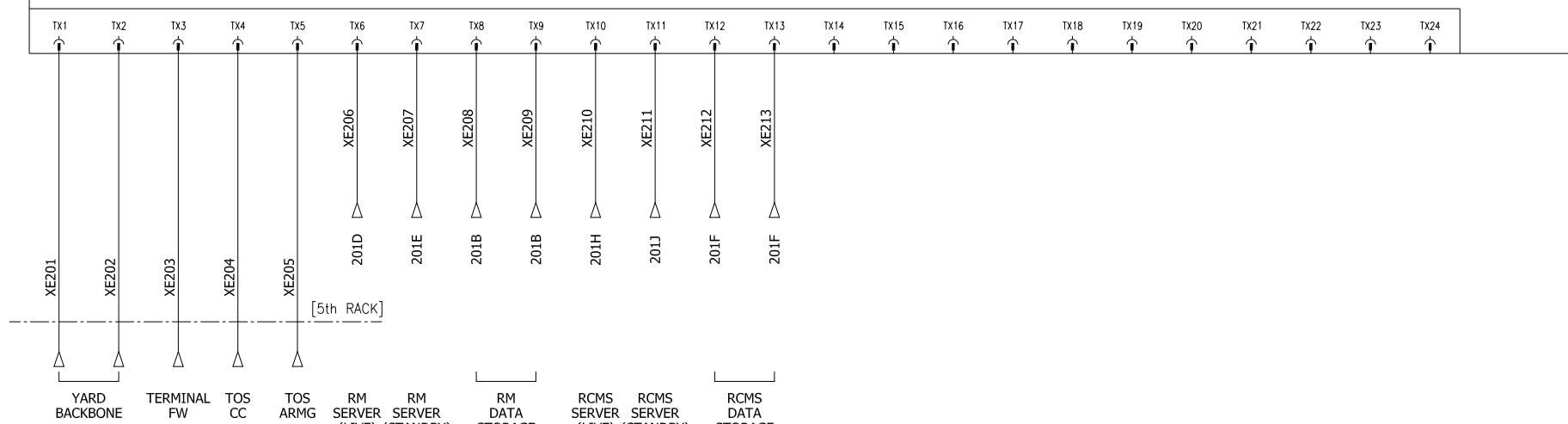
205U1

ETHERNET L3 SWITCH (STANDBY)

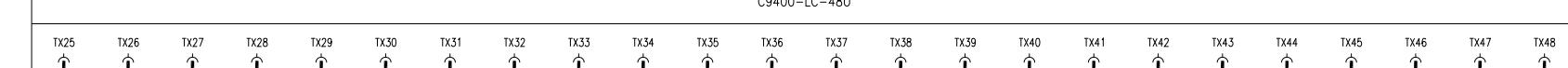
C9407R-96U-BNDL-A

CISCO

C9400-LC-48U



C9400-LC-48U



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7 / H

8 / J

9 / K

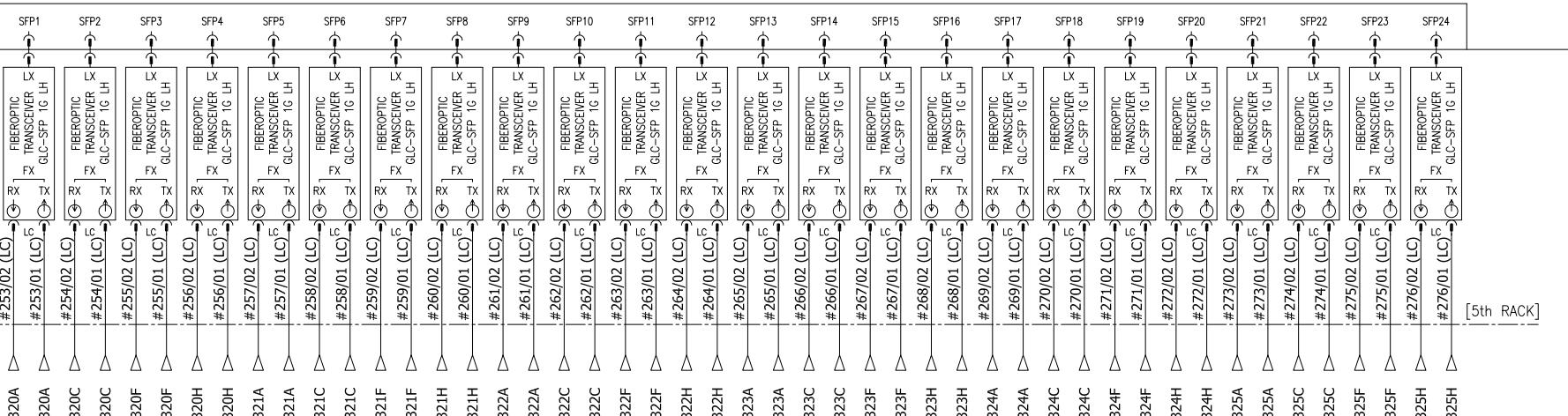
20201

ETHERNET L3 SWITCH (LIVE)

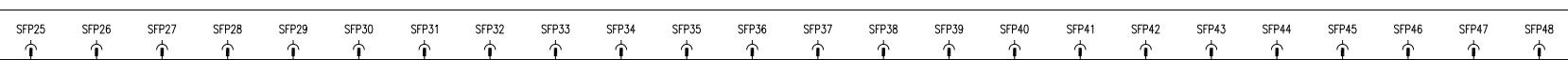
C9407R-96U-BNDL-A

CISCO

C9400-LC-48S-RF #3



C9400-LC-48S-RF #3



[5th RACK]

5
4
3
2
1



DRAWIN. BY DESIGN BY CHECK. BY APPRV. BY
D.H.JEONG B.H.HWANG I.H.BANG

WORK NO. TITLE
PJ24-002 RACK PANEL (5th FLOOR)
WORK NAME NETWORK
부산항 신항 서면 2~6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

2025.04.14 2025.04.14 2025.04.14

SH. NO.
208
DRAWING NO.
CONT.SH.
209

0 / A

1 / B

2 / C

3 / D

4 / E

5 / F

6 / G

7 / H

8 / J

9 / K

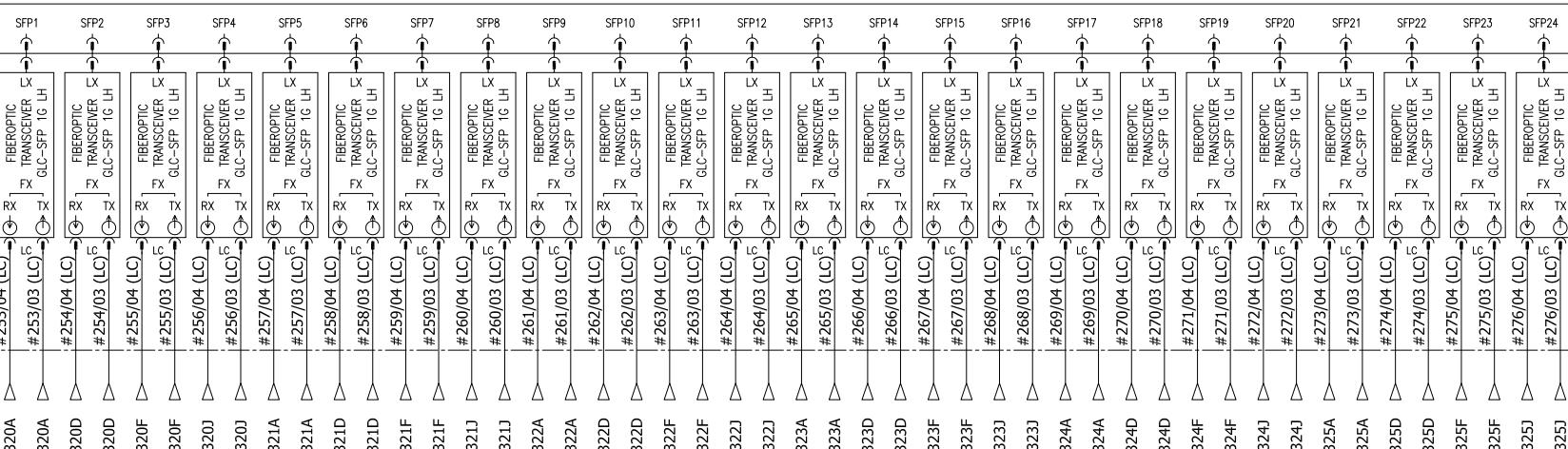
20205

ETHERNET L3 SWITCH (STANDBY)

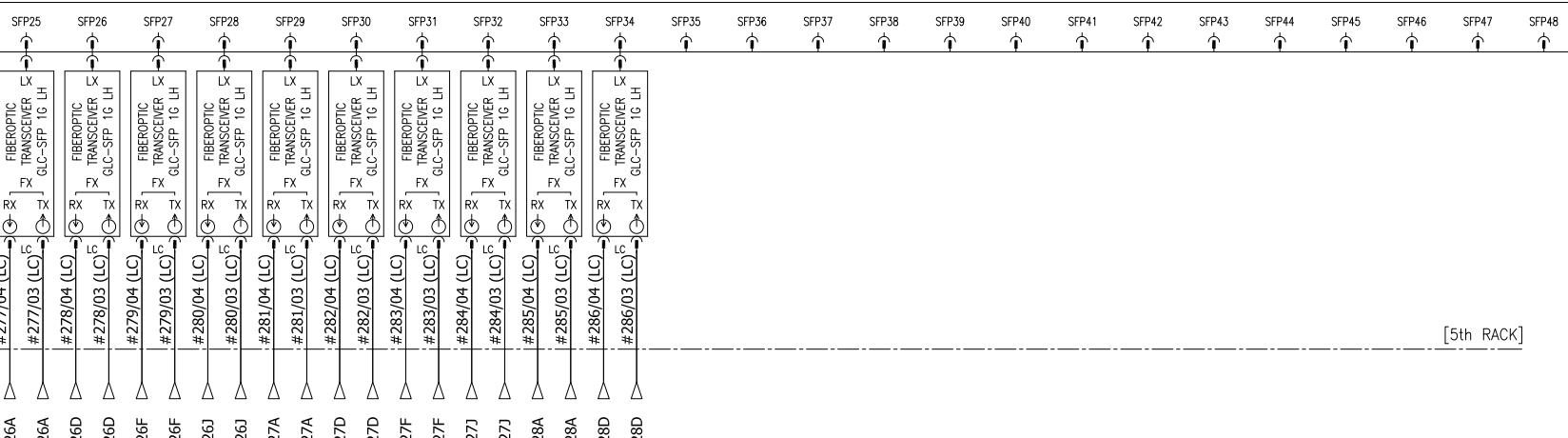
C9407R-96U-BNDL-A

CISCO

C9400-LC-48S-RF #3



C9400-LC-48S-RF #3



[5th RACK]

5
4
3
2
1



DRAWIN. BY

DESIGN BY

CHECK. BY

APPRV. BY

WORK NO.
PJ24-002WORK NAME
부산항 신항 서면 2~6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

TITLE

RACK PANEL (5th FLOOR)
NETWORKSH. NO.
209

DRAWING NO.

CONT.SH.
300

2025.04.14

2025.04.14

2025.04.14

0 / A

1 / B

2 / C

3 / D

4 / E

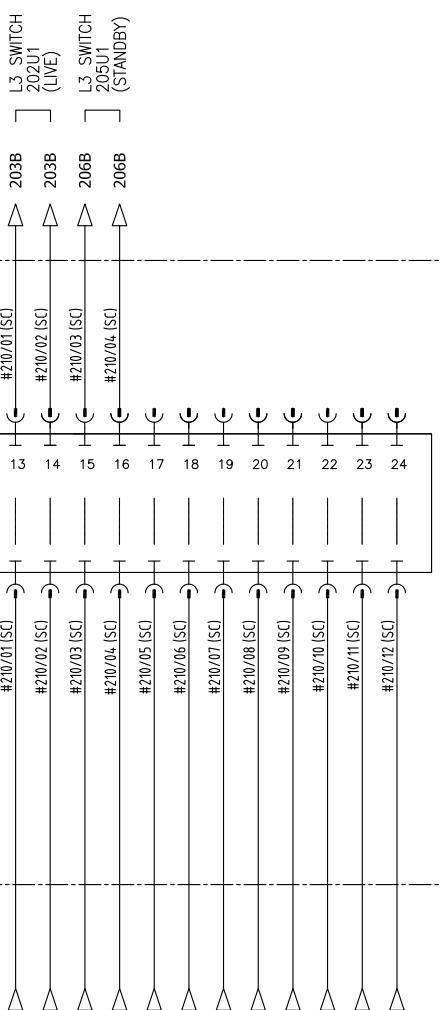
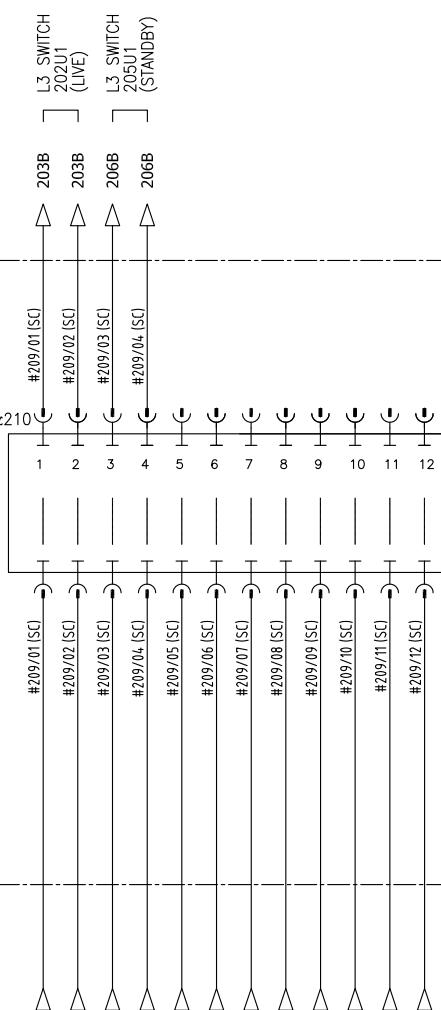
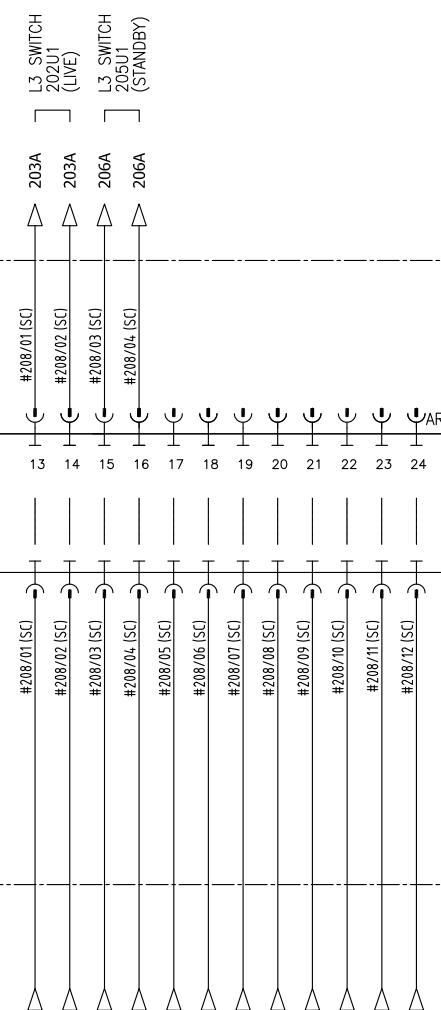
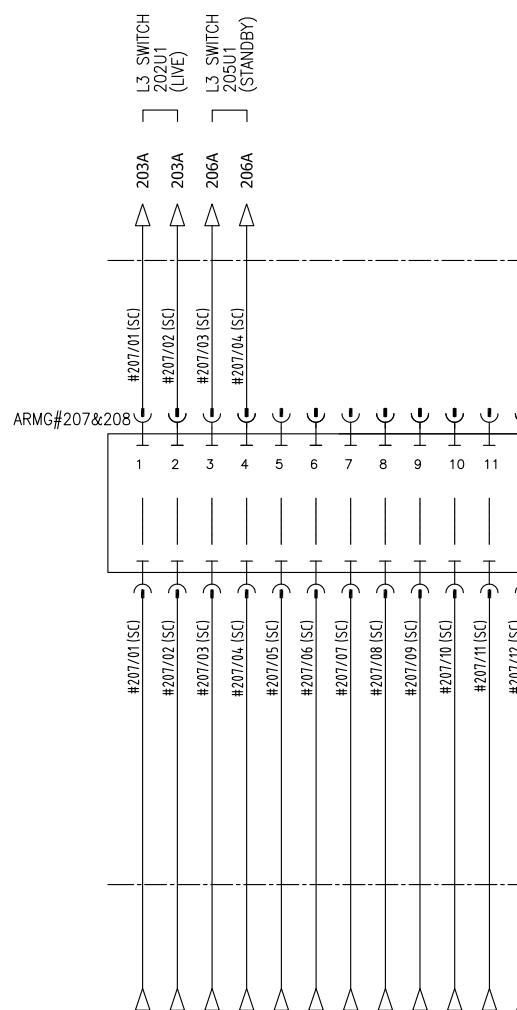
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #207
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #208
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #209
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #210
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG	PJ24-002	FDF #1 PANEL (5th FLOOR) FDF BOX #207 ~ #210		
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 301

0 / A

1 / B

2 / C

3 / D

4 / E

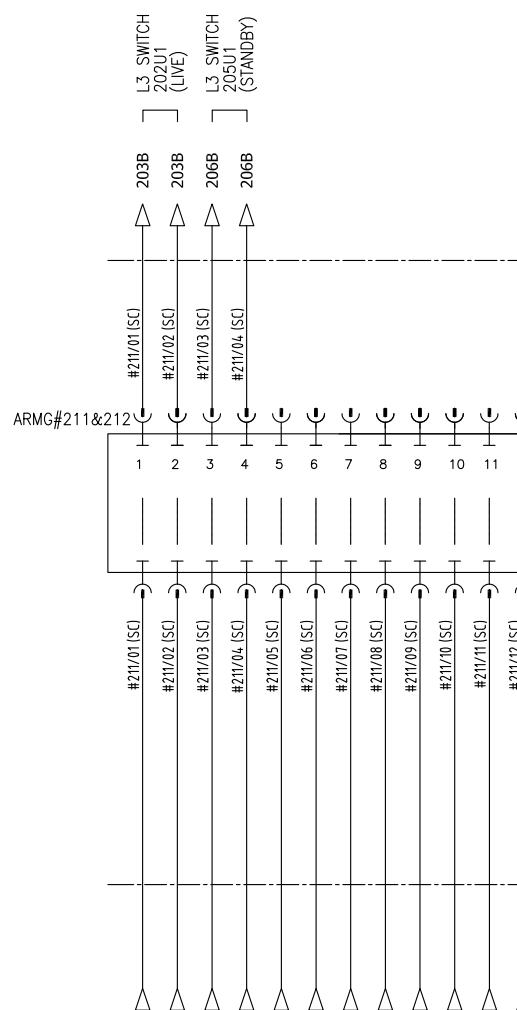
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #211
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #212
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #213
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #214
PATCH BOX

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DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE FDF #1 PANEL (5th FLOOR) FDF BOX #211 ~ #214	SH. NO. 301
D.H.JEONG	B.H.HWANG	I.H.BANG				
2025.04.14	2025.04.14	2025.04.14				

WORK NAME
부산항 신항 서면 2~6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

[FDF1]

[FDF1]

DRAWING NO.	CONT.SH.
302	

0 / A

1 / B

2 / C

3 / D

4 / E

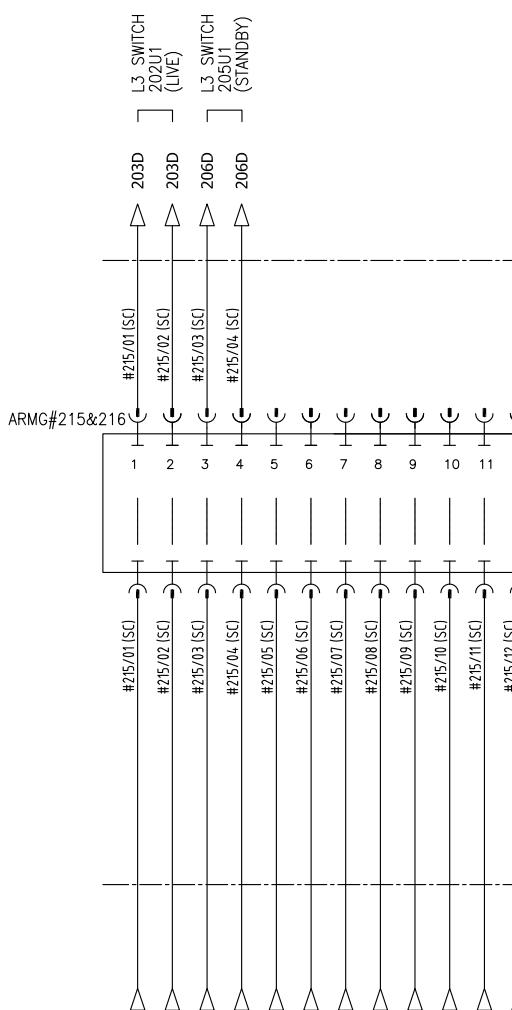
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #215
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #216
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #217
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #218
PATCH BOX

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DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
					FDF #1 PANEL (5th FLOOR) FDF BOX #215 ~ #218	
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002		302
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 303

0 / A

1 / B

2 / C

3 / D

4 / E

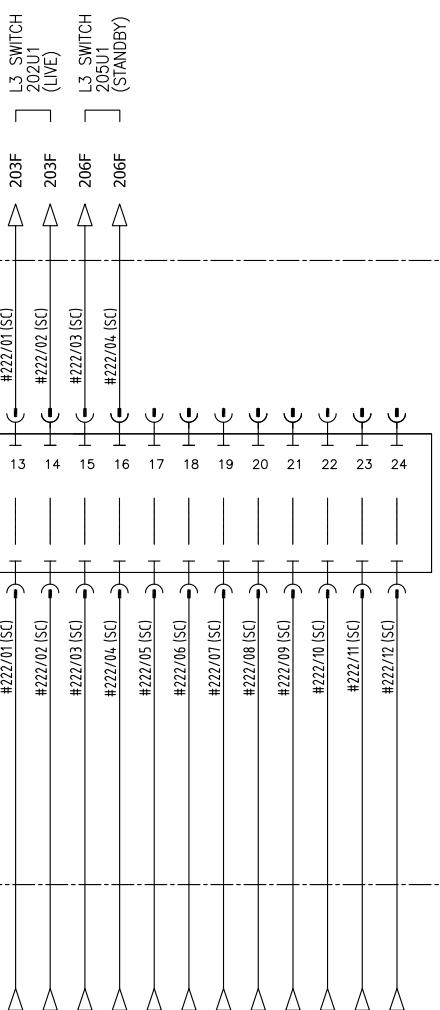
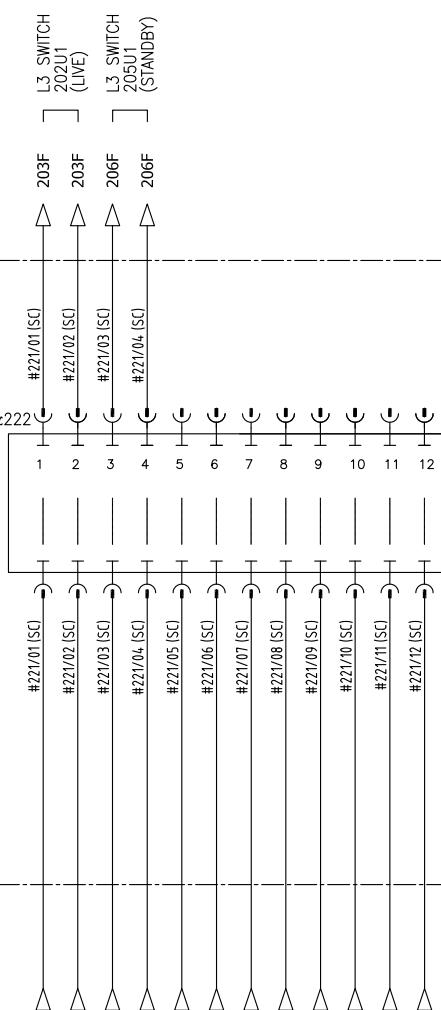
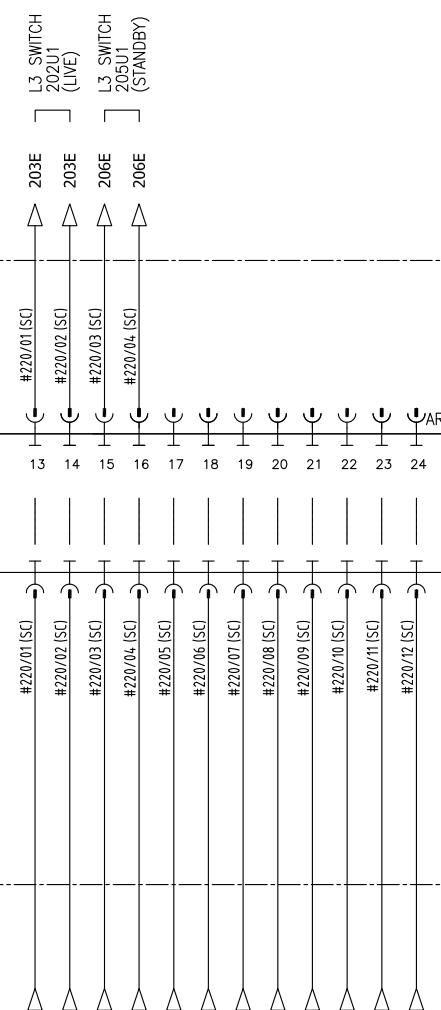
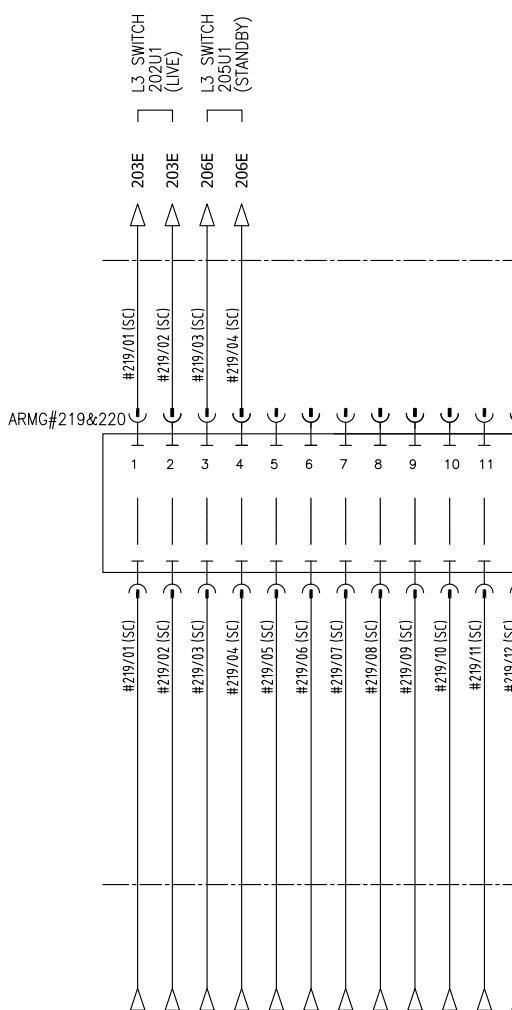
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #219
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #220
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #221
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #222
PATCH BOX

5			
4			
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DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG	PJ24-002	FDF #1 PANEL (5th FLOOR) FDF BOX #219 ~ #222		
2025.04.14	2025.04.14	2025.04.14		부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 304

0 / A

1 / B

2 / C

3 / D

4 / E

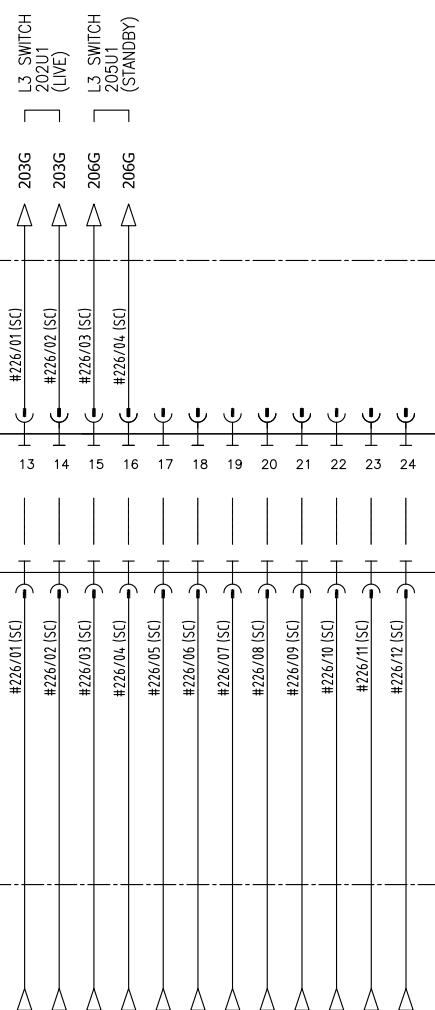
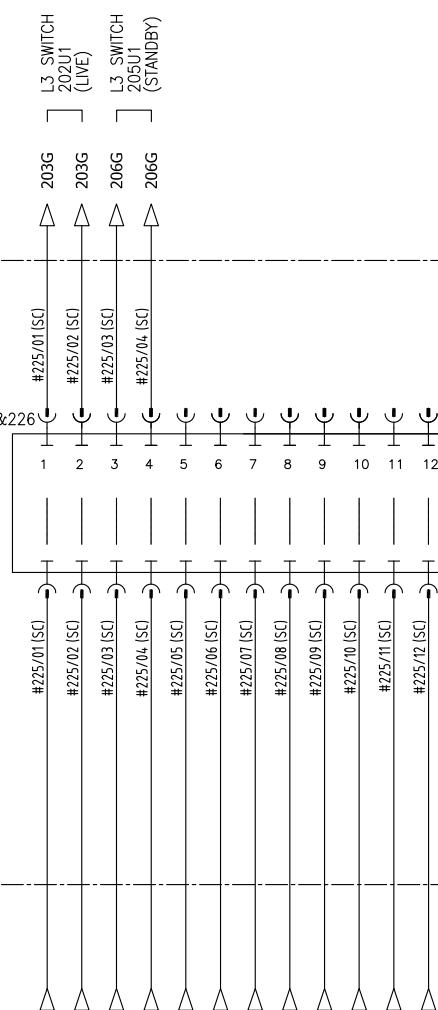
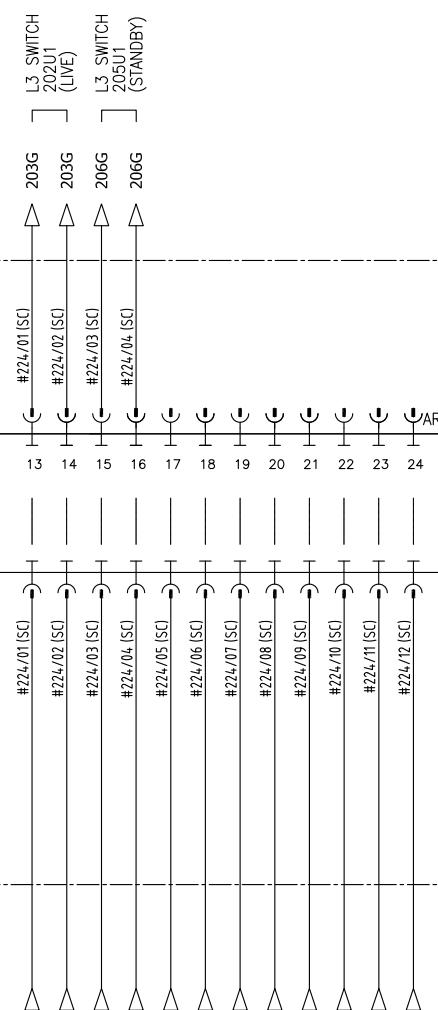
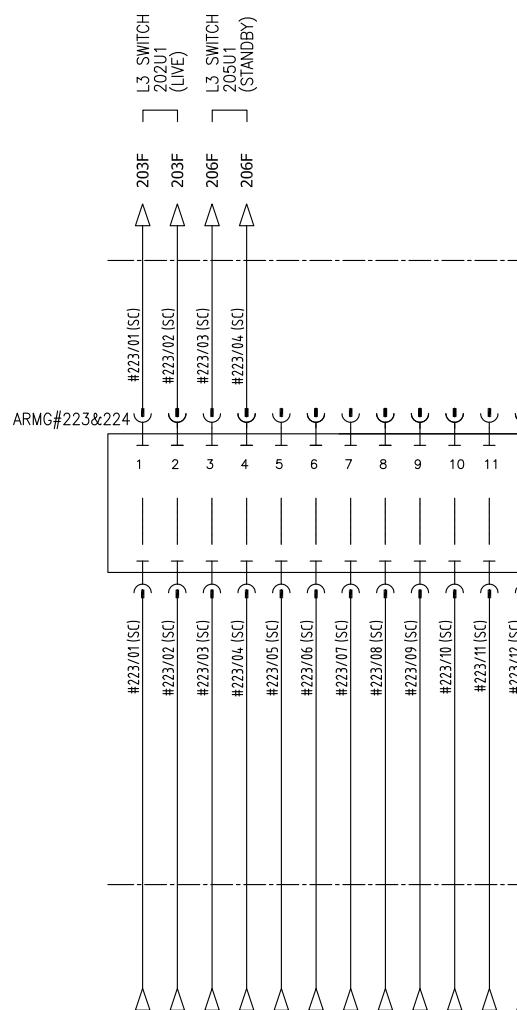
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #223
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #224
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #225
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #226
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG	PJ24-002	FDF #1 PANEL (5th FLOOR) FDF BOX #223 ~ #226		
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO. CONT.SH.	304

[FDF1]

[FDF1]

0 / A

1 / B

2 / C

3 / D

4 / E

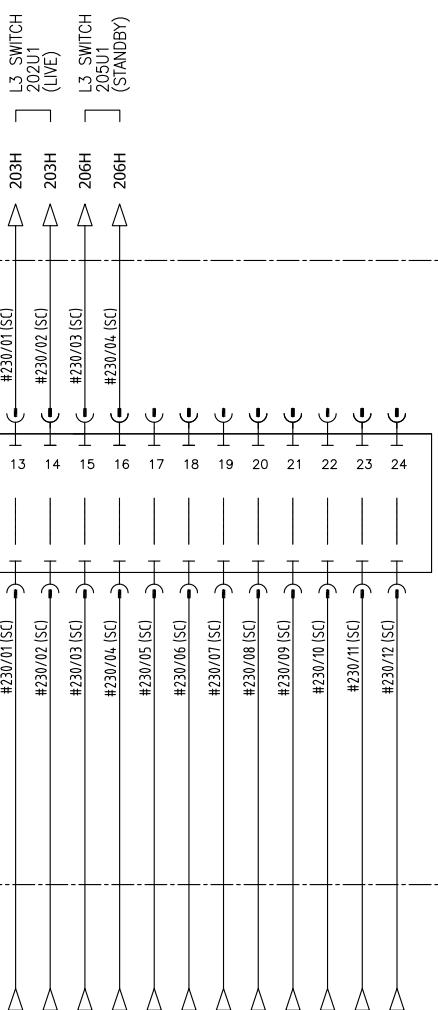
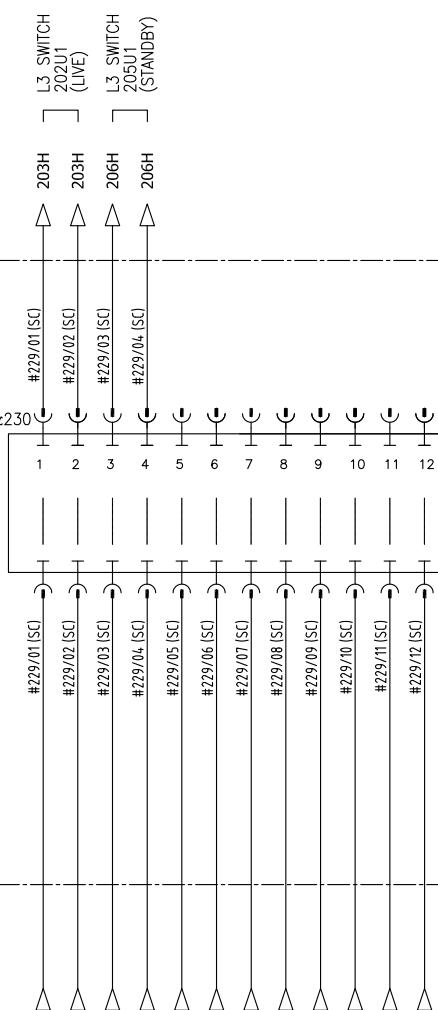
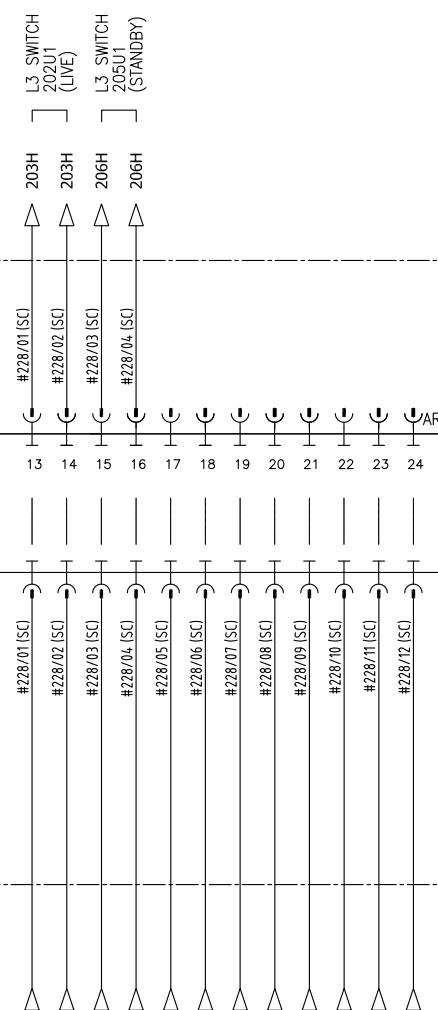
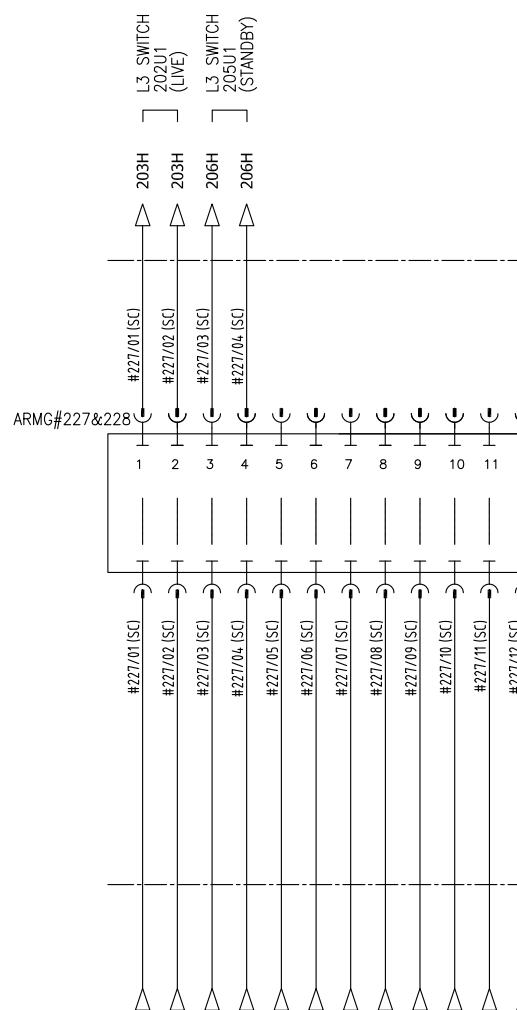
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #227
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #228
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #229
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #230
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	FDF #1 PANEL (5th FLOOR) FDF BOX #227 ~ #230	
2025.04.14	2025.04.14	2025.04.14		부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO. CONT.SH.	305

[FDF1]

[FDF1]

306

0 / A

1 / B

2 / C

3 / D

4 / E

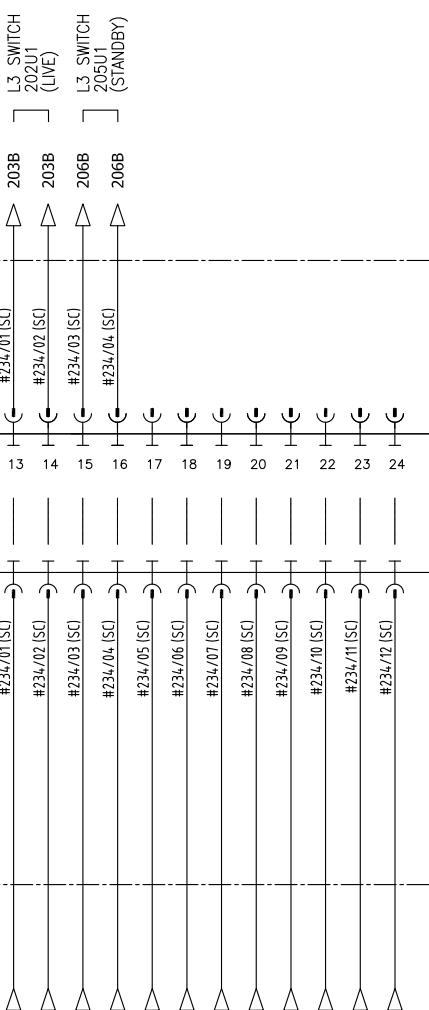
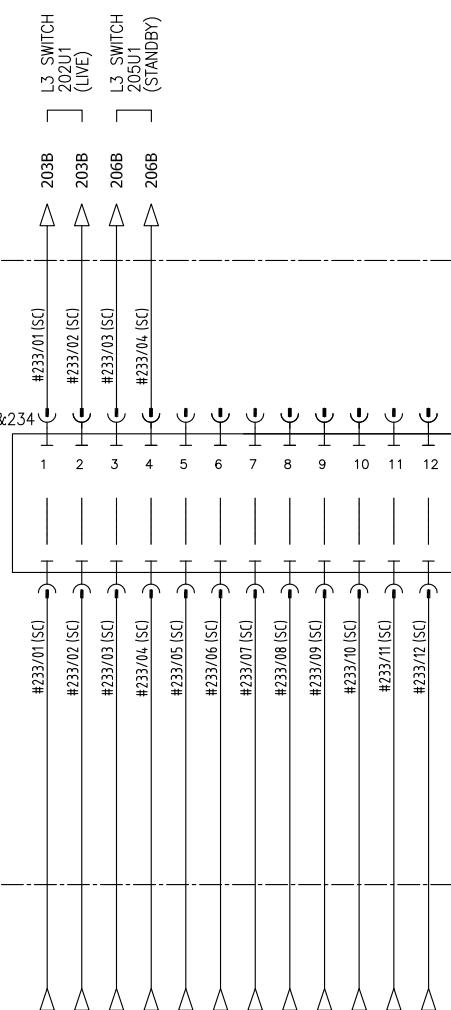
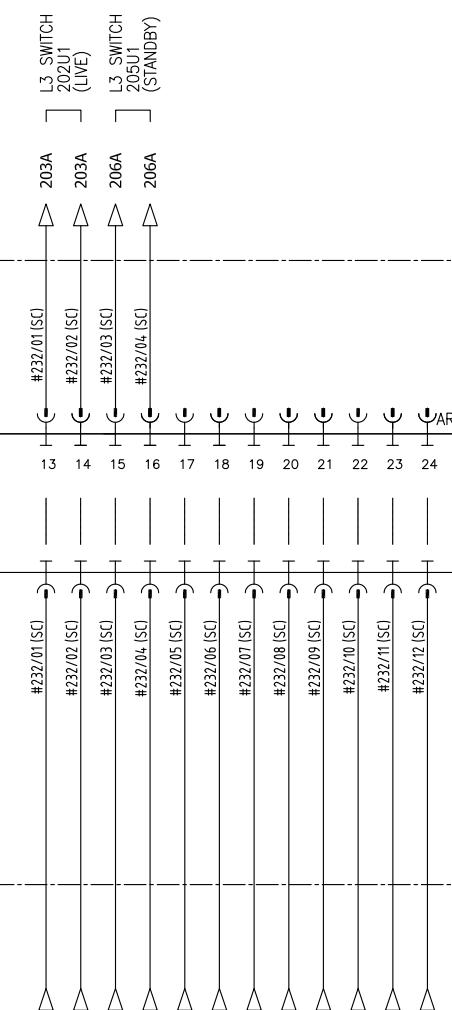
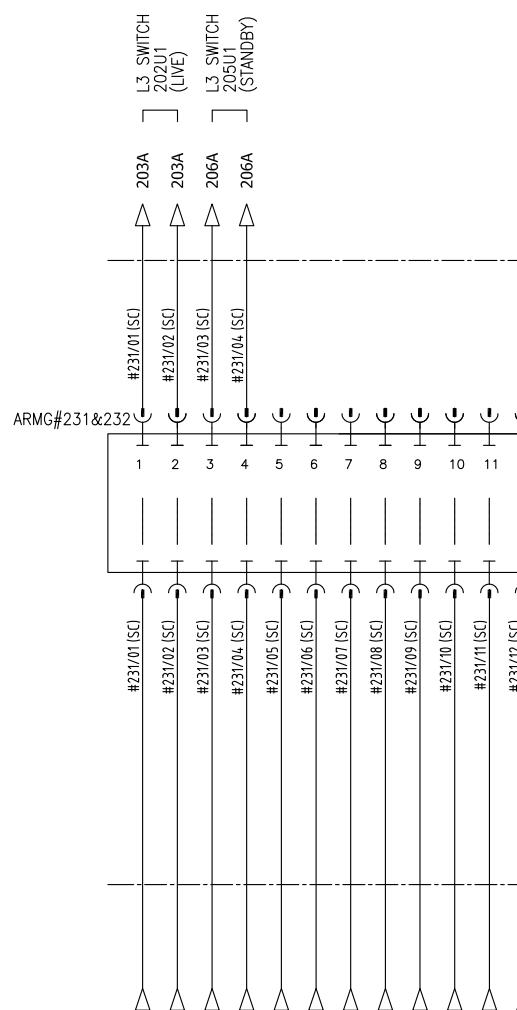
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #231
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #232
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
CANTILEVER TYPE

BPA 2-5 ARMG #233
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
CANTILEVER TYPE

BPA 2-5 ARMG #234
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
					FDF #1 PANEL (5th FLOOR) FDF BOX #231 ~ #234	
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002		306
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 307

0 / 4

1 / 8

2 /

3 /

4 /

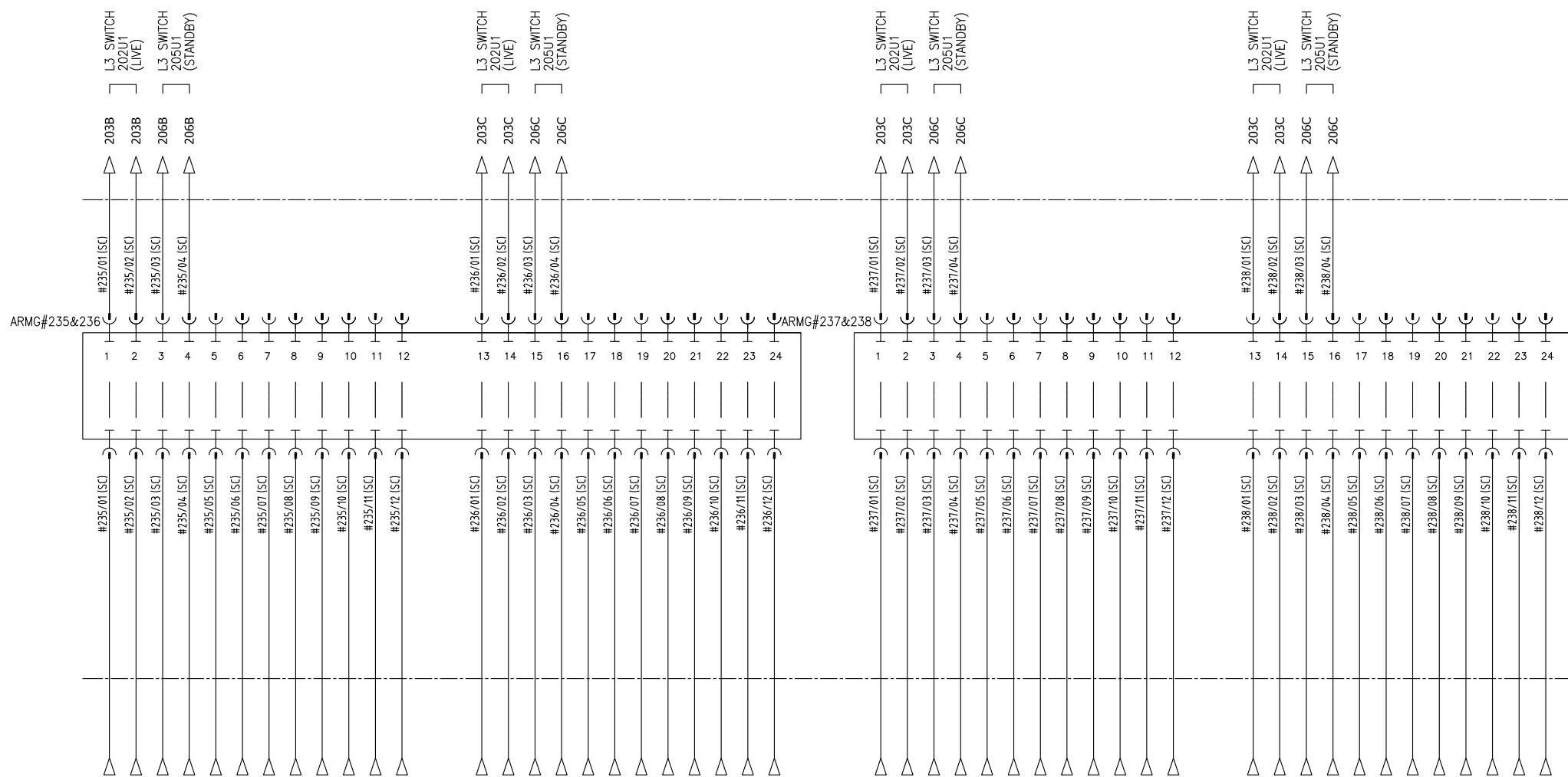
5 /

6 /

7

8

9 /



DETAILS REFER HHIC-E04-D03 / SH49
CANTILEVER TYPE

BPA 2-5 ARMG #235
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH49
CANTILEVER TYPE

BPA 2-5 ARMG #23
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #23
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #238
PATCH BOX



DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
					PJ24-002	FDF #1 PANEL (5th FLOOR)
D.H.JEONG	B.H.HWANG	I.H.BANG		WORK NAME	FDF BOX #235 ~ #238	307
				부산항 신항 서컨 2-6 단계	DRAWING NO.	CONT.SH
				AUTO RAIL MOUNTED GANTRY CRANE (ARMG)		308

0 / A

1 / B

2 / C

3 / D

4 / E

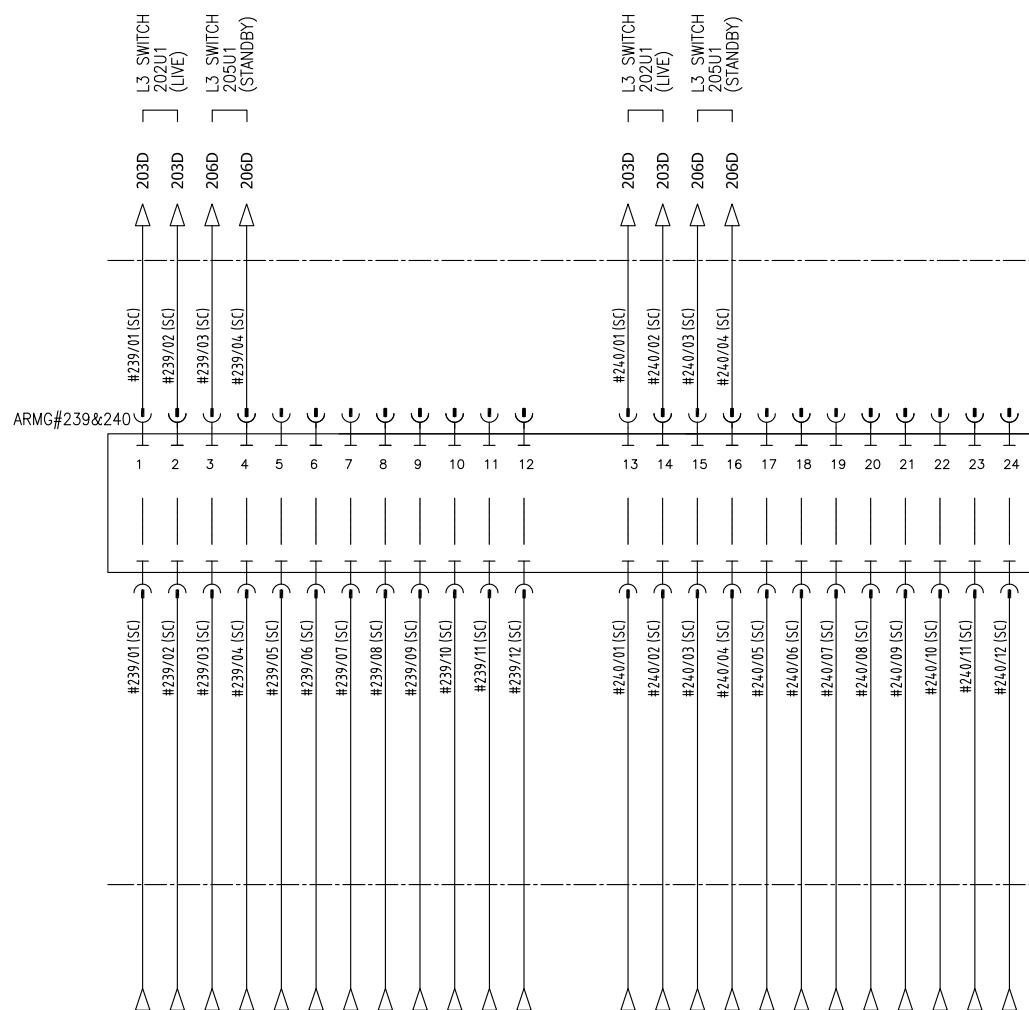
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #239
PATCH BOX

DETAILS REFER HHIC-E04-D03 / SH498
RAHMEN TYPE

BPA 2-5 ARMG #240
PATCH BOX



5					DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE FDF #1 PANEL (5th FLOOR) FDF BOX #239 ~ #240	SH. NO. 308
					D.H.JEONG	B.H.HWANG	I.H.BANG				
2					2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 309

0 / A

1 / B

2 / C

3 / D

4 / E

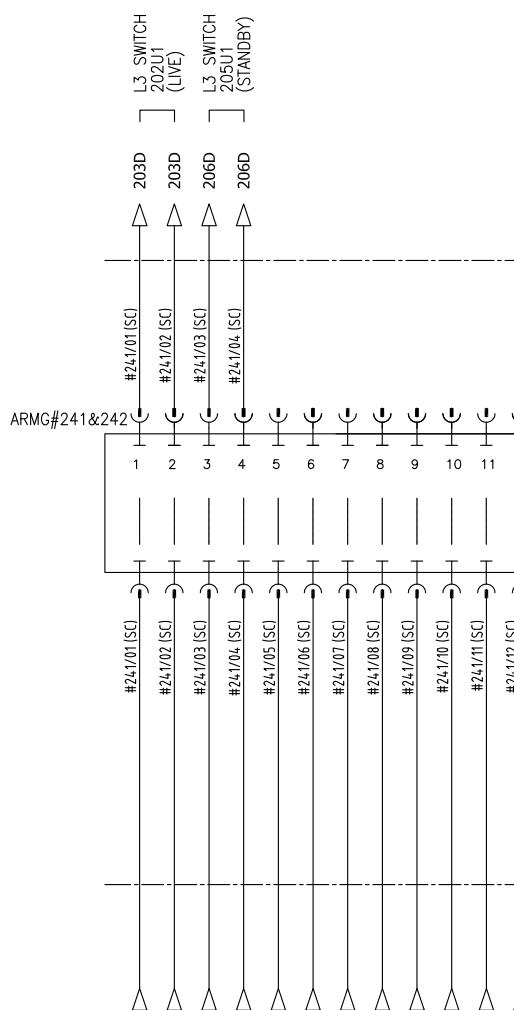
5 / F

6 / G

7 / H

8 / J

9 / K

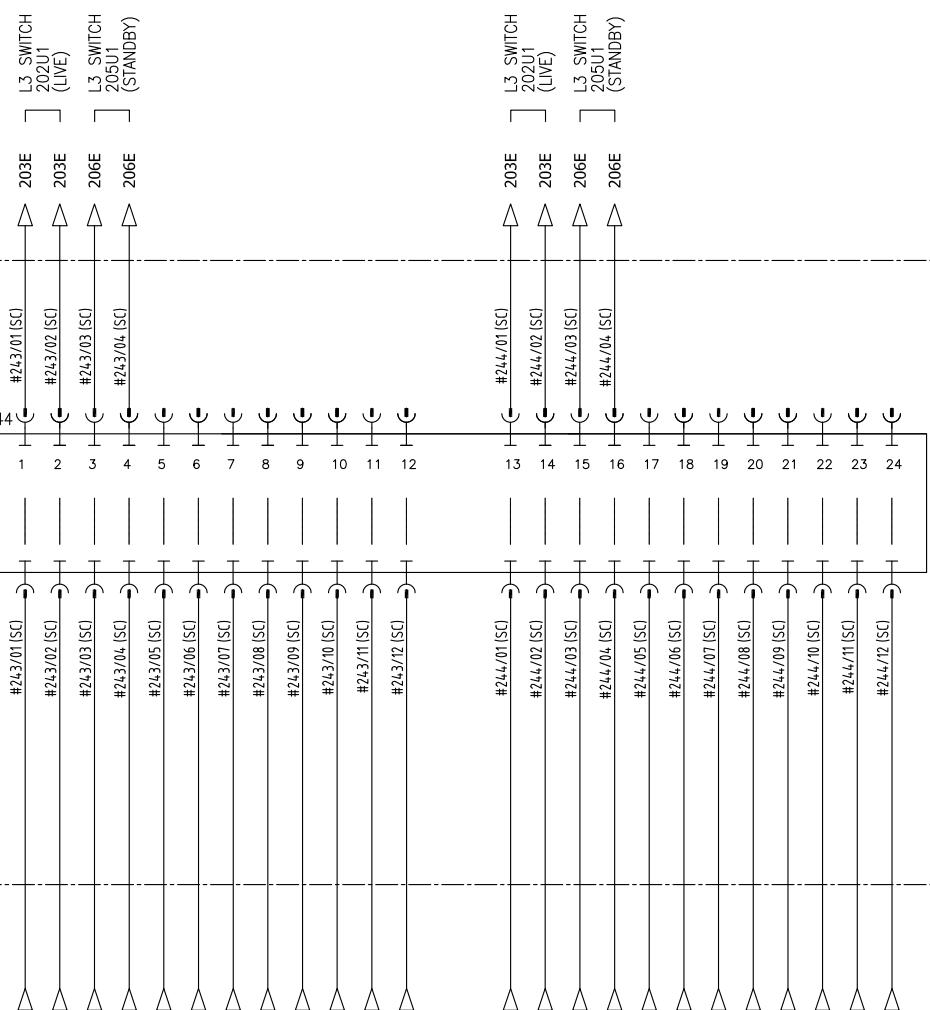


DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #241
PATCH BOX

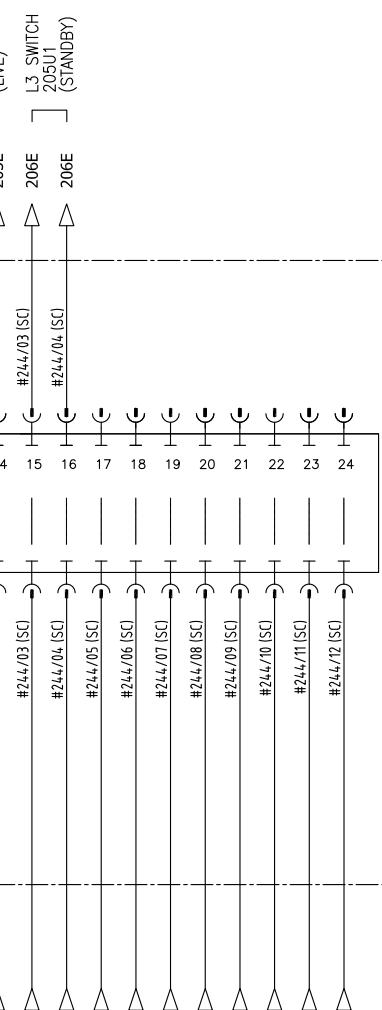
DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #242
PATCH BOX



DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #243
PATCH BOX



DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #244
PATCH BOX

[FDF2]

[FDF2]

5		
4		
3		
2		
1		



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	FDF #2 PANEL (5th FLOOR) FDF BOX #241 ~ #244	
2025.04.14	2025.04.14	2025.04.14		부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 310

0 / A

1 / B

2 / C

3 / D

4 / E

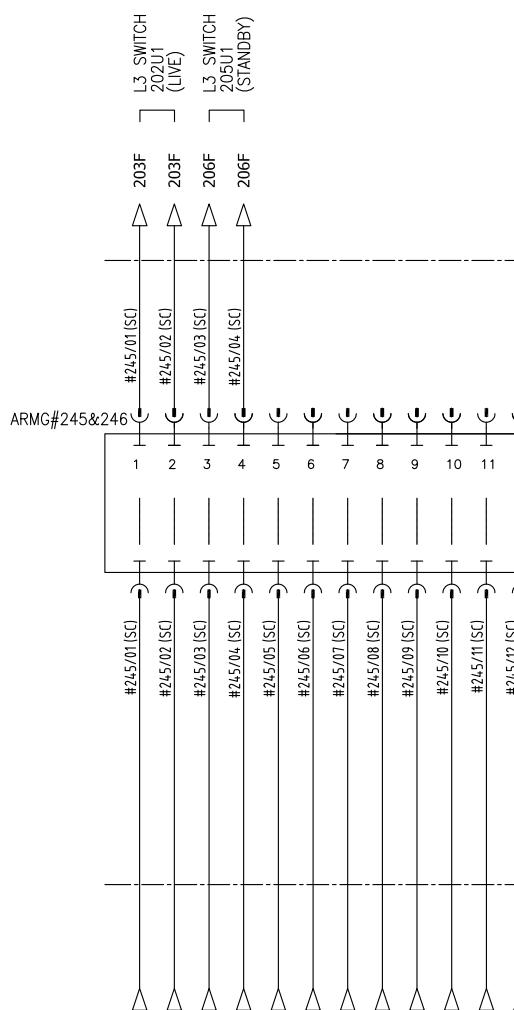
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #245
PATCH BOX

DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #246
PATCH BOX

DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #247
PATCH BOX

DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #248
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
					FDF #2 PANEL (5th FLOOR) FDF BOX #245 ~ #248	
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002		310
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 311

[FDF2]

[FDF2]

0 / A

1 / B

2 / C

3 / D

4 / E

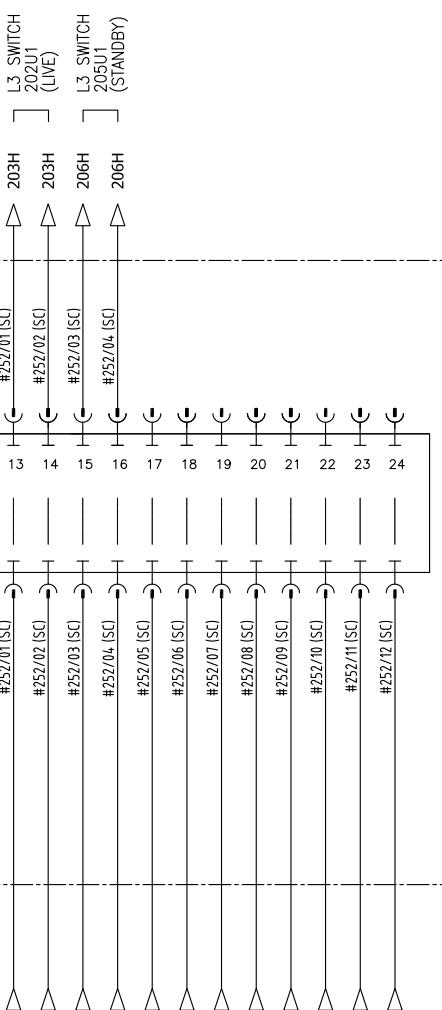
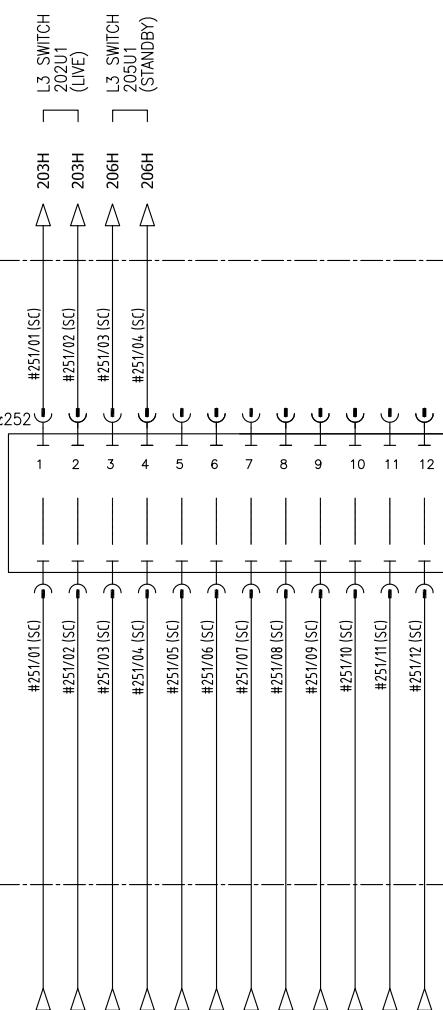
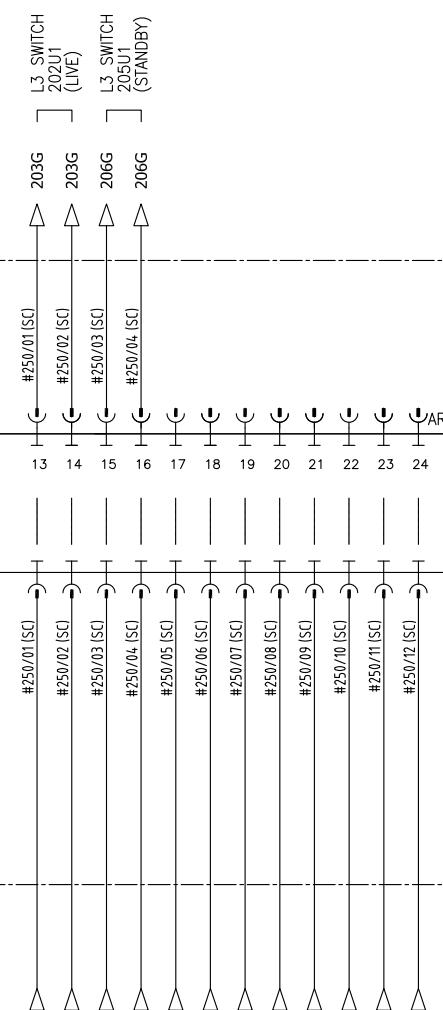
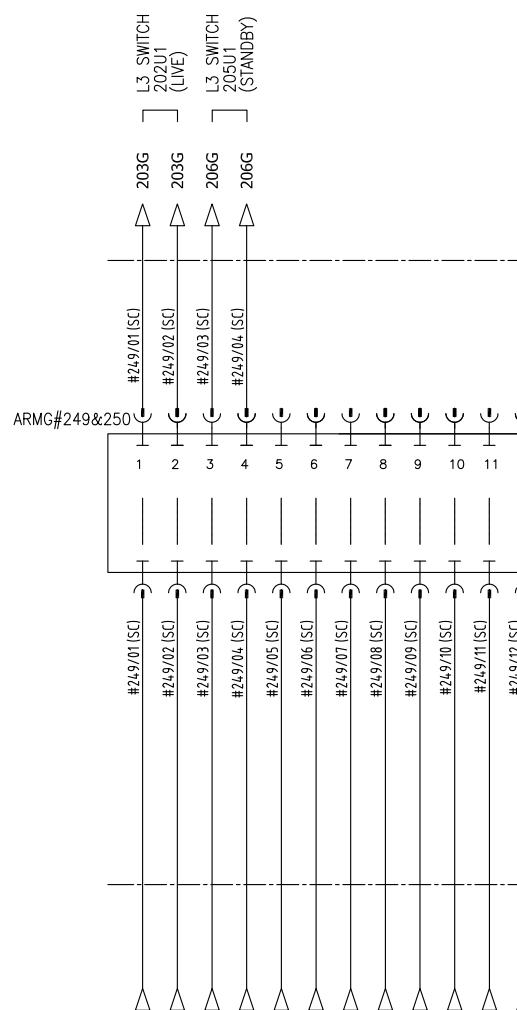
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #249
PATCH BOX

DETAILS REFER EDW-0202 / SH.498
RAHMEN TYPE

BPA 2-5 ARMG #250
PATCH BOX

DETAILS REFER EDW-0202 / SH.498
CANTILEVER TYPE

BPA 2-5 ARMG #251
PATCH BOX

DETAILS REFER EDW-0202 / SH.498
CANTILEVER TYPE

BPA 2-5 ARMG #252
PATCH BOX



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	FDF #2 PANEL (5th FLOOR) FDF BOX #249 ~ #252	
2025.04.14	2025.04.14	2025.04.14		부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 312

0 / A

1 / B

2 / C

3 / D

4 / E

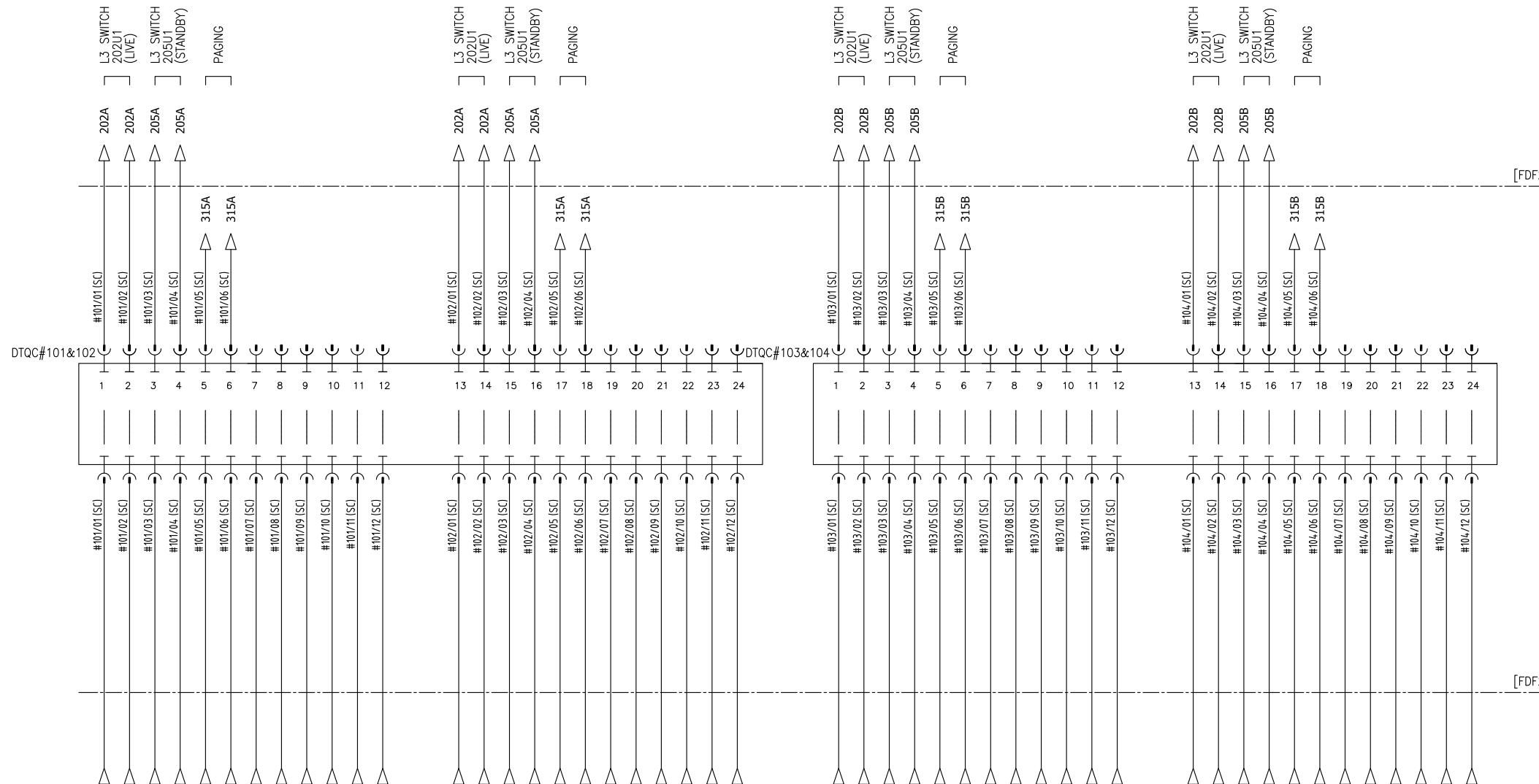
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER TP113-E04-D02 / SH.510

BPA 2-5 DTQC #101
PATCH BOXBPA 2-5 DTQC #102
PATCH BOXBPA 2-5 DTQC #103
PATCH BOXBPA 2-5 DTQC #104
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY
D.H.JEONG	B.H.HWANG	I.H.BANG	
2025.04.14	2025.04.14	2025.04.14	

WORK NO.	TITLE	SH. NO.
PJ24-002	FDF #2 PANEL (5th FLOOR) FDF BOX #101 ~ #104	312
WORK NAME 부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 313

0 / A

1 / B

2 / C

3 / D

4 / E

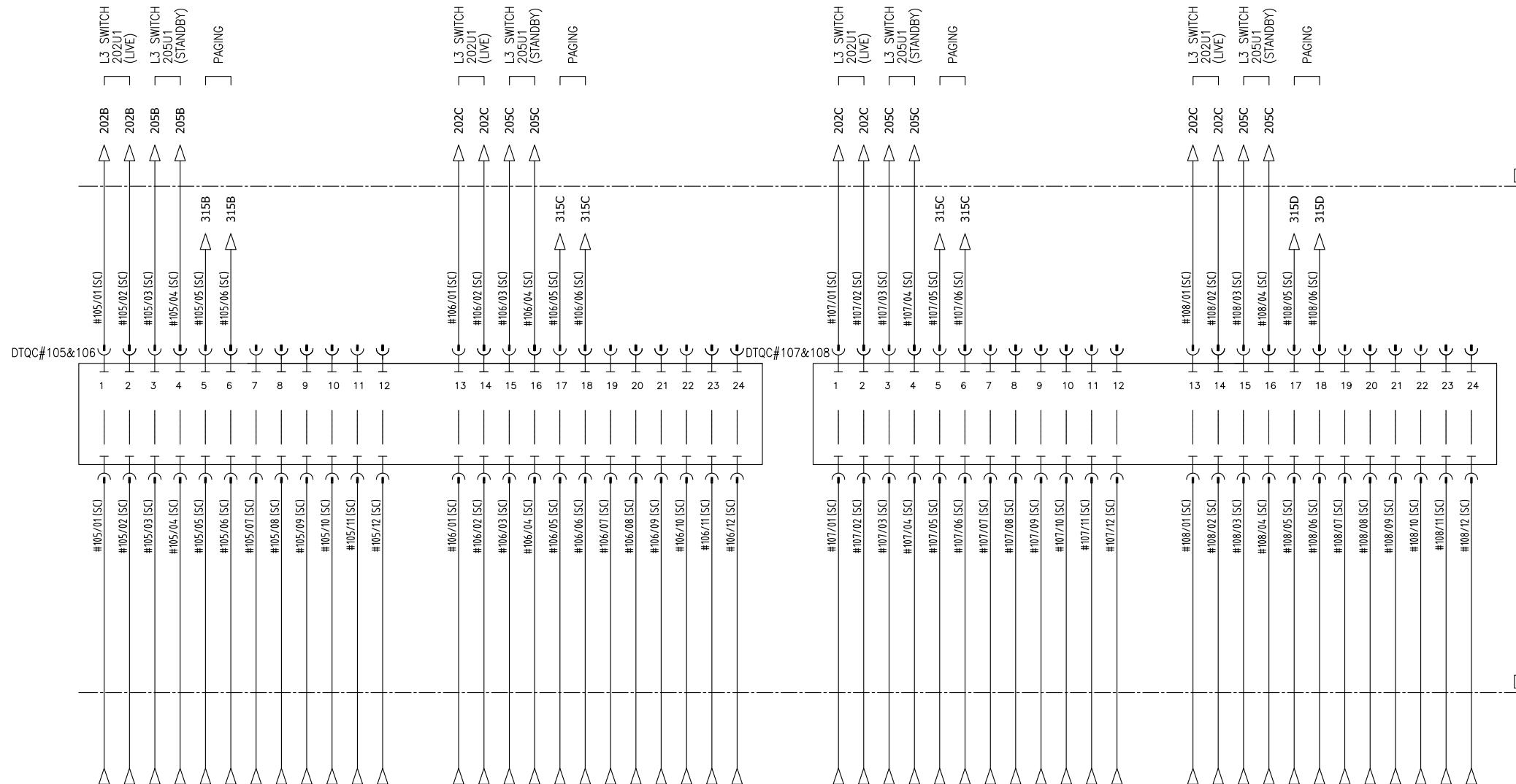
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER TP113-E04-D02 / SH.510

BPA 2-5 DTQC #105
PATCH BOXBPA 2-5 DTQC #106
PATCH BOXBPA 2-5 DTQC #107
PATCH BOXBPA 2-5 DTQC #108
PATCH BOX

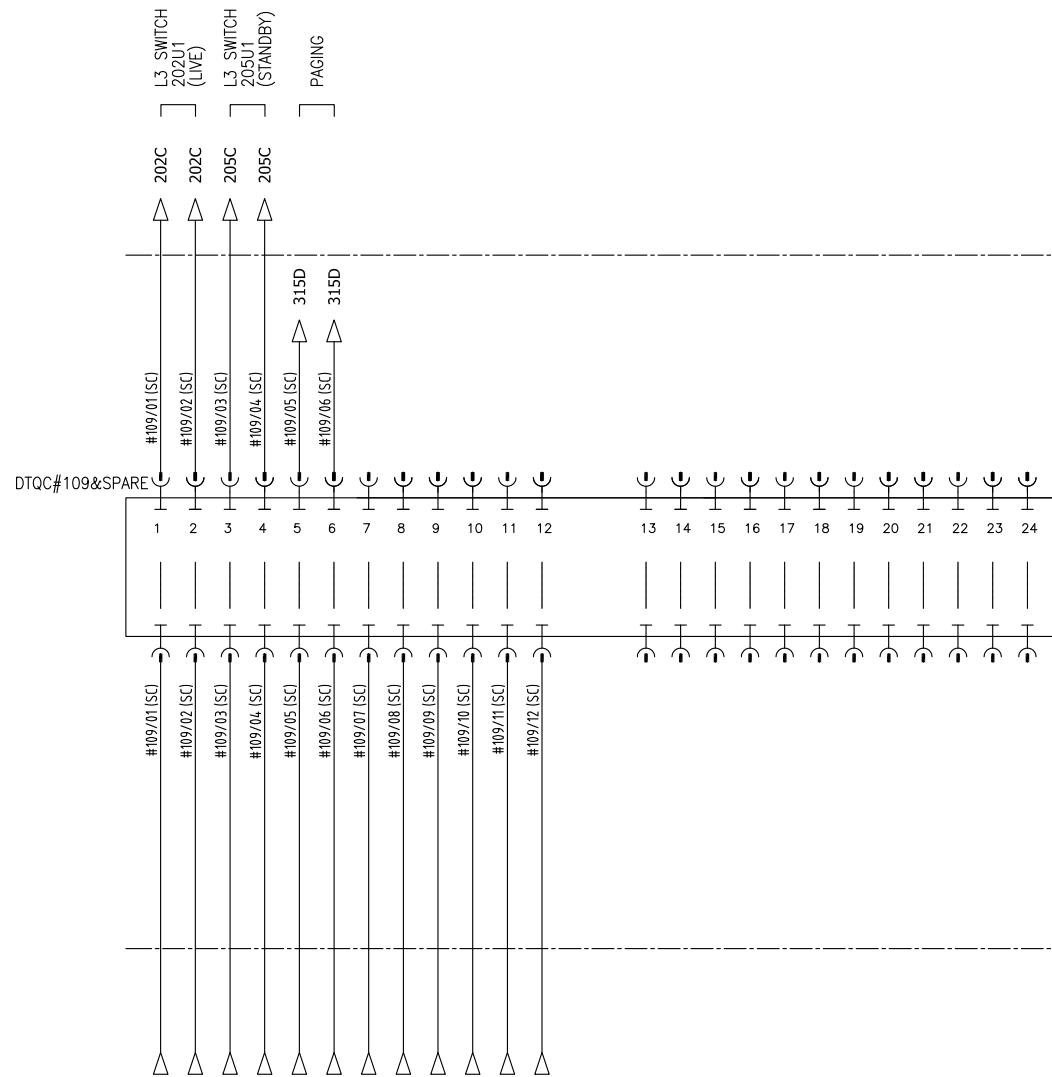
5		
4		
3		
2		
1		



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG			FDF #2 PANEL (5th FLOOR) FDF BOX #105 ~ #108	
WORK NAME	부산항 신항 서면 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)			DRAWING NO.	CONT.SH.	313

2025.04.14	2025.04.14	2025.04.14		PJ24-002	FDF #2 PANEL (5th FLOOR) FDF BOX #105 ~ #108	313
2025.04.14	2025.04.14	2025.04.14			DRAWING NO.	CONT.SH. 314

0 / A 1 / B 2 / C 3 / D 4 / E 5 / F 6 / G 7 / H 8 / J 9 / K



DETAILS REFER TP113-E04-D02 / SH.510

BPA 2-5 DTQC #109
PATCH BOX

FROM : 7th FLOOR RACK PANEL
5th to 7th PATCH BOX

5			
4			
3			
2			
1			



DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE FDF #2 PANEL (5th FLOOR) FDF BOX #109, 5th to 7th	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG				314
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서구 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 315

[FDF2]

The diagram illustrates the timing sequence for the DTQC# PAGING command. It consists of two parallel horizontal timelines representing different data paths. Each timeline is divided into 24 clock cycles, indexed from 1 to 24 along the bottom.

Legend:

- F0 SM:** Represented by a downward-pointing triangle.
- 402F:** Represented by an upward-pointing triangle.
- 4022F:** Represented by a rightward-pointing triangle.
- 312B:** Represented by a leftward-pointing triangle.
- #01/05 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #01/06 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #02/05 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #02/06 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #03/05 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #03/06 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #04/05 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #04/06 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #05/05 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #05/06 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #06/05 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- #06/06 [SC]:** Represented by a downward-pointing triangle with a small circle at the tip.
- 312G:** Represented by a rightward-pointing triangle with a small circle at the tip.
- 313G:** Represented by a rightward-pointing triangle with a small circle at the tip.
- 313G:** Represented by a rightward-pointing triangle with a small circle at the tip.
- 313J:** Represented by a rightward-pointing triangle with a small circle at the tip.
- 313J:** Represented by a rightward-pointing triangle with a small circle at the tip.
- 314B:** Represented by a rightward-pointing triangle with a small circle at the tip.
- 314B:** Represented by a rightward-pointing triangle with a small circle at the tip.

Sequence Details:

- Clock 1:** F0 SM (down) → 402F (up).
- Clock 2:** 402F (up) → F0 SM (down).
- Clock 3:** F0 SM (down) → 402F (up).
- Clock 4:** 402F (up) → F0 SM (down).
- Clock 5:** F0 SM (down) → 402F (up).
- Clock 6:** 402F (up) → F0 SM (down).
- Clock 7:** F0 SM (down) → 402F (up).
- Clock 8:** 402F (up) → F0 SM (down).
- Clock 9:** F0 SM (down) → 402F (up).
- Clock 10:** 402F (up) → F0 SM (down).
- Clock 11:** F0 SM (down) → 402F (up).
- Clock 12:** 402F (up) → F0 SM (down).
- Clock 13:** F0 SM (down) → 402H (up).
- Clock 14:** 402H (up) → F0 SM (down).
- Clock 15:** F0 SM (down) → 402H (up).
- Clock 16:** 402H (up) → F0 SM (down).
- Clock 17:** F0 SM (down) → 402J (up).
- Clock 18:** 402J (up) → F0 SM (down).
- Clock 19:** F0 SM (down) → 402J (up).
- Clock 20:** 402J (up) → F0 SM (down).
- Clock 21:** F0 SM (down) → 402K (up).
- Clock 22:** 402K (up) → F0 SM (down).
- Clock 23:** F0 SM (down) → 402K (up).
- Clock 24:** 402K (up) → F0 SM (down).

[FDF2]

FROM : 7th FLOOR RACK PANEL
PAGING PATCH BOX



0 / A

1 / B

2 / C

3 / D

4 / E

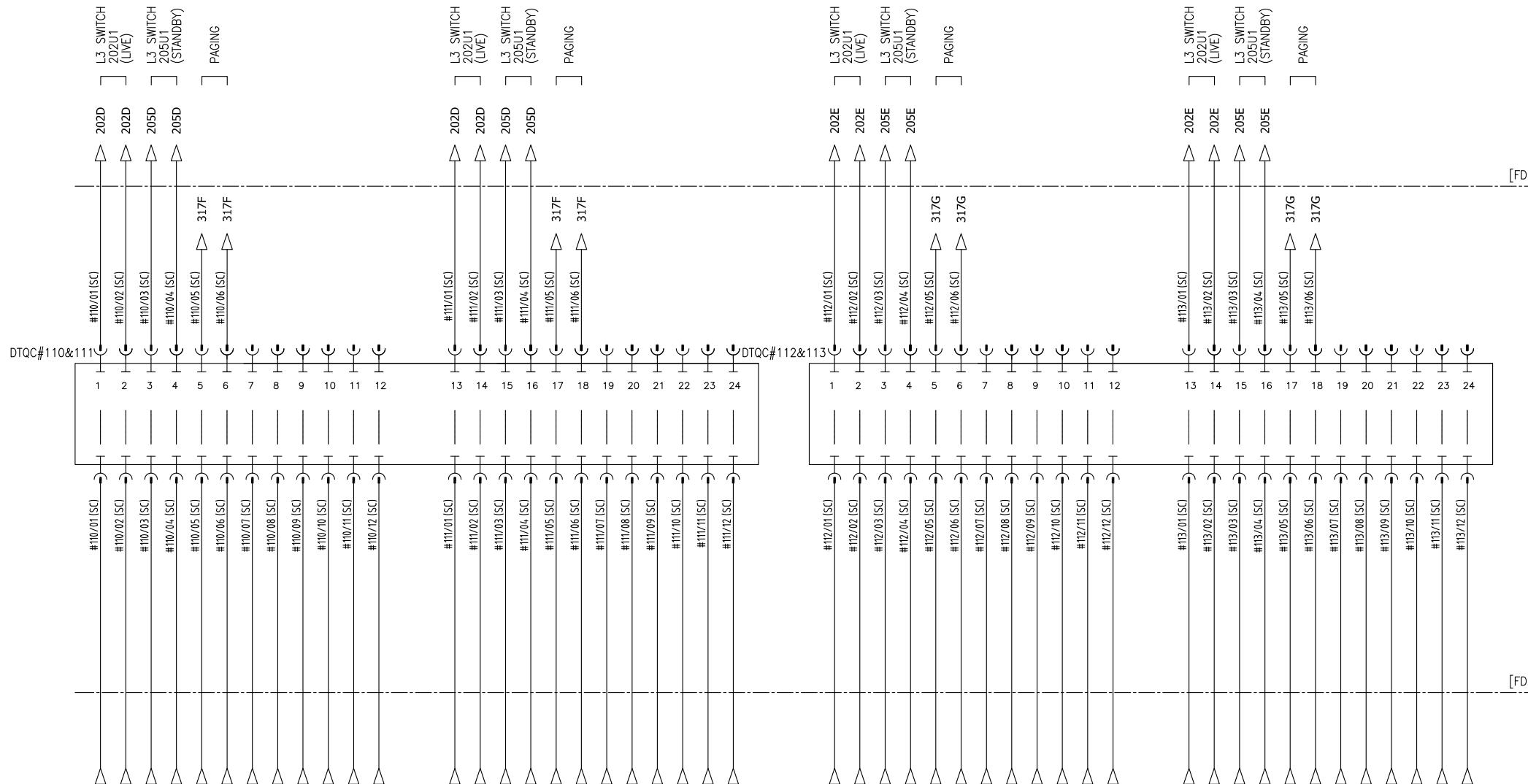
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER TP127-E04-D05 / SH.510

BPA 2-6 DTQC #110
PATCH BOXBPA 2-6 DTQC #111
PATCH BOXBPA 2-6 DTQC #112
PATCH BOXBPA 2-6 DTQC #113
PATCH BOX

5		
4		
3		
2		
1		



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG			FDF #2 PANEL (5th FLOOR) FDF BOX #110 ~ #113	
WORK NAME	부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)			DRAWING NO.	CONT.SH.	317

0 / A

1 / B

2 / C

3 / D

4 / E

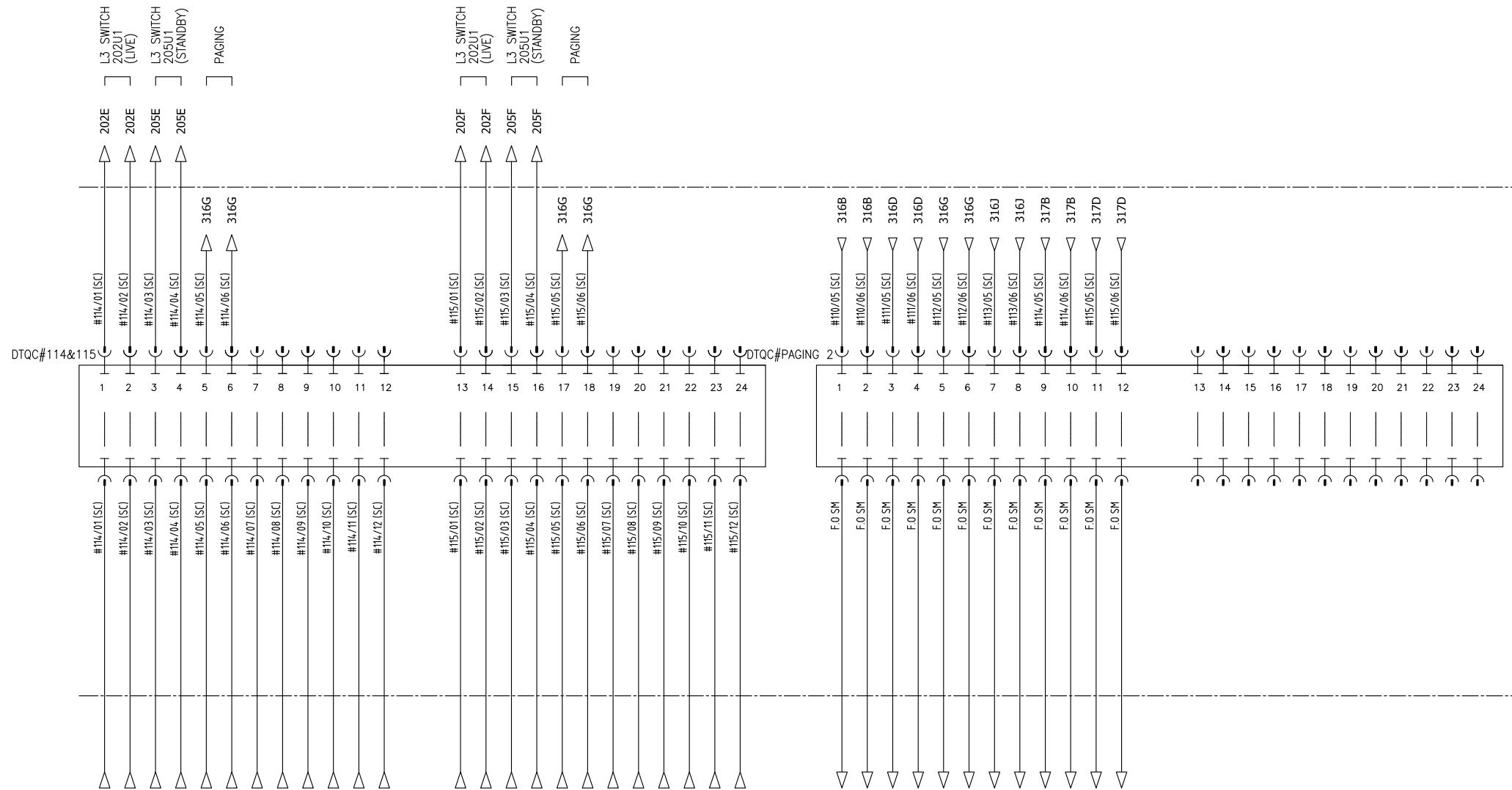
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER TP127-E04-D05 / SH.510

DETAILS REFER TP127-E04-D05 / SH.510

BPA 2-6 DTQC #114
PATCH BOXBPA 2-6 DTQC #115
PATCH BOXFROM : 7th FLOOR RACK PANEL
PAGING PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY DESIGN BY CHECK. BY APPRV. BY
 D.H.JEONG B.H.HWANG I.H.BANG
 2025.04.14 2025.04.14 2025.04.14

WORK NO. TITLE
 PJ24-002 FDF #2 PANEL (5th FLOOR)
 WORK NAME FDF BOX #114 ~ #115
 부산항 신항 서면 2-6 단계
 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

SH. NO.
317
 DRAWING NO.
 CONT.SH.
320

0 / A

1 / B

2 / C

3 / D

4 / E

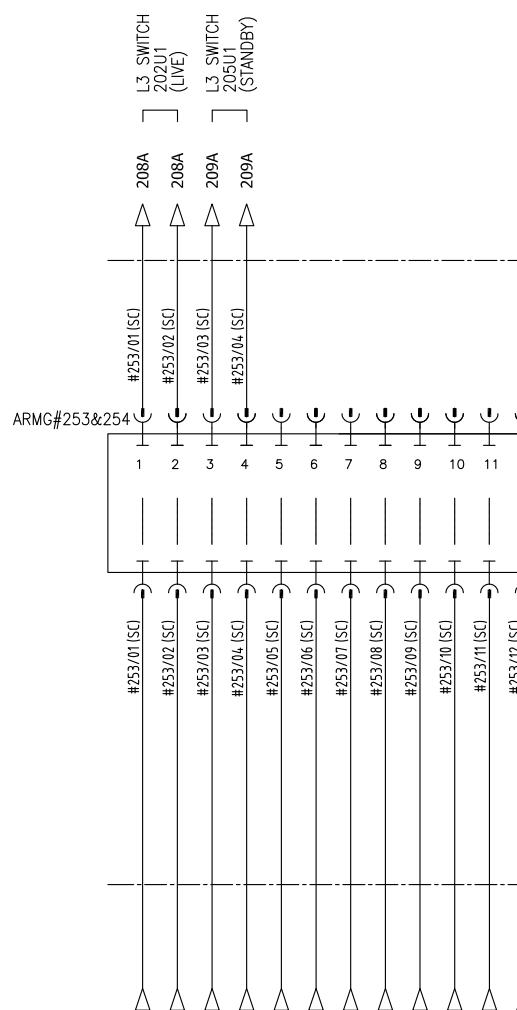
5 / F

6 / G

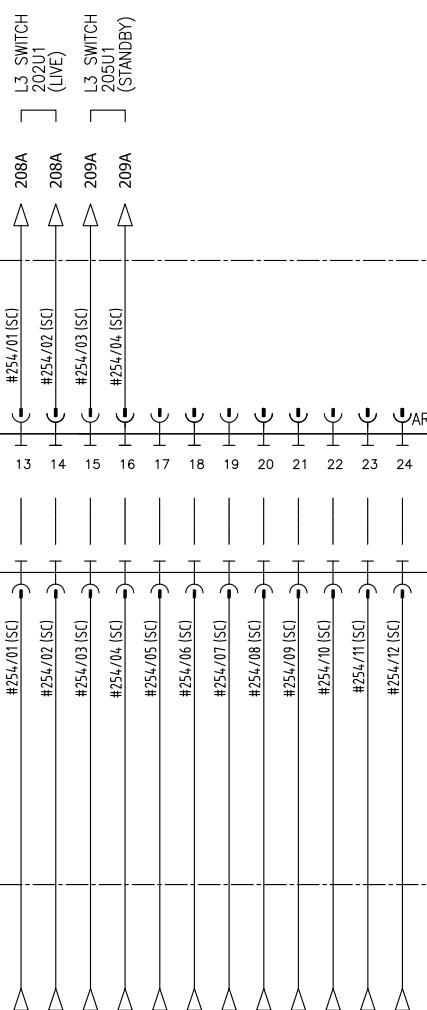
7 / H

8 / J

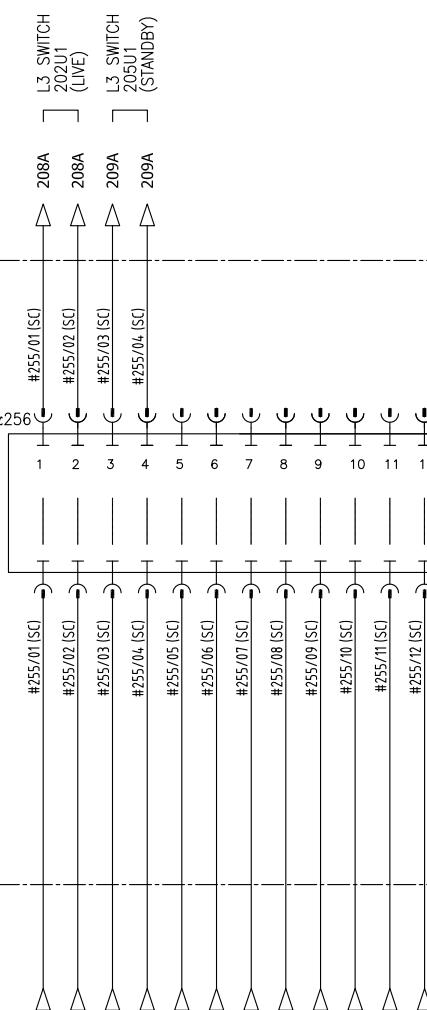
9 / K



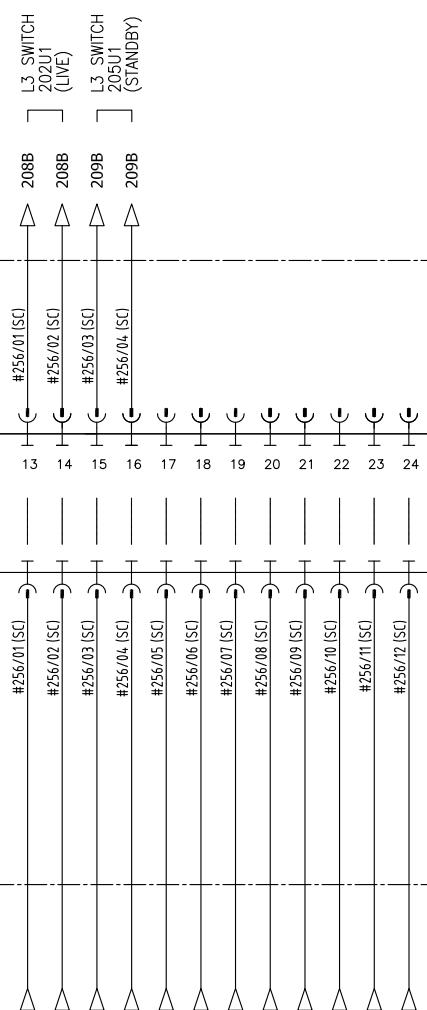
CANTILEVER TYPE

BPA 2-6 ARMG #253
PATCH BOX

CANTILEVER TYPE

BPA 2-6 ARMG #254
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #255
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #256
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
					FDF #3 PANEL (5th FLOOR) FDF BOX #253 ~ #256	
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002		320
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 321

0 / A

1 / B

2 / C

3 / D

4 / E

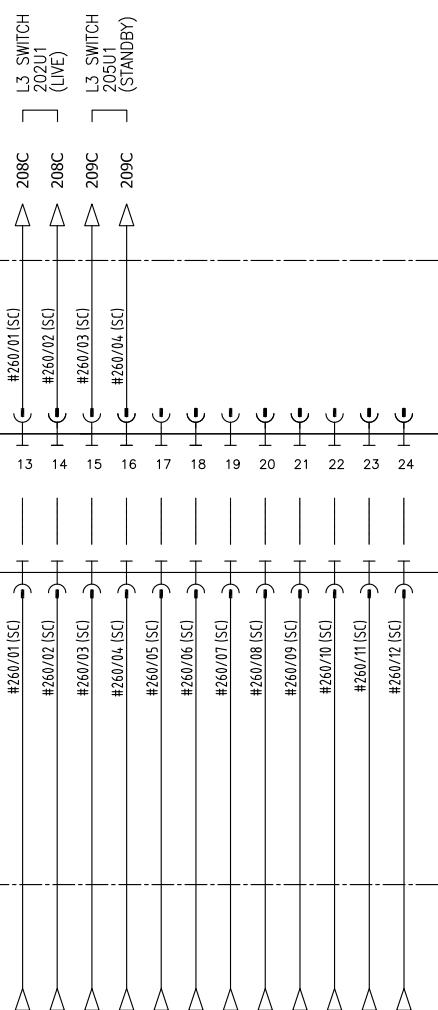
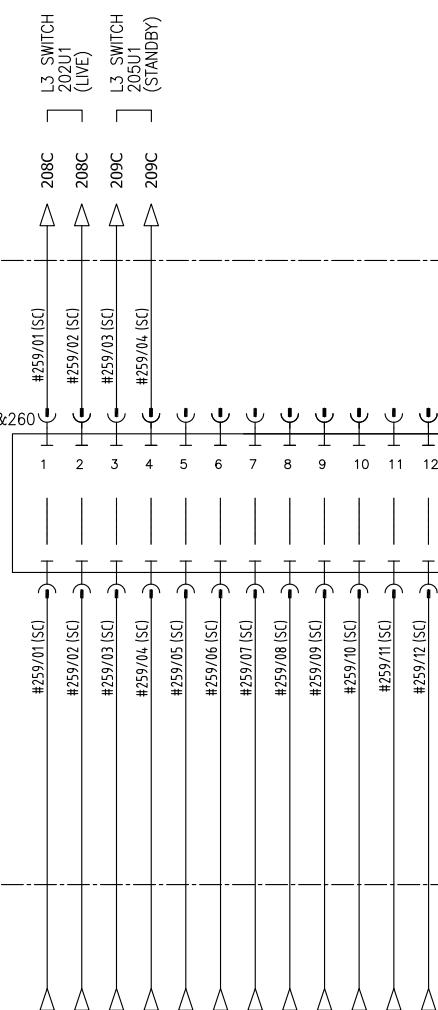
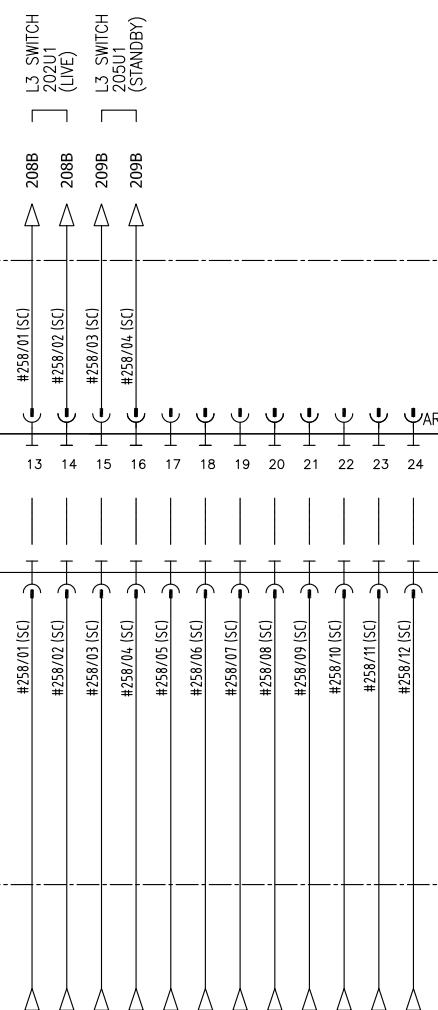
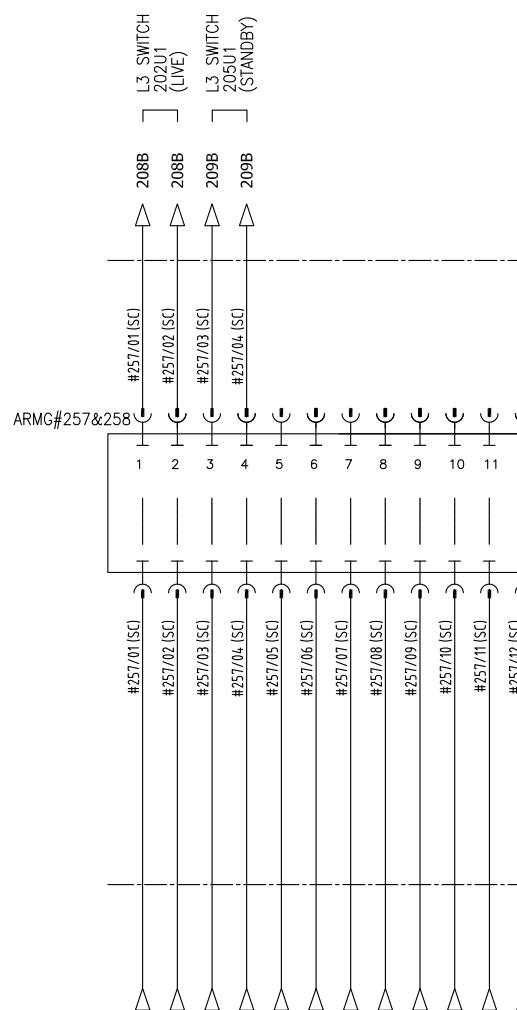
5 / F

6 / G

7 / H

8 / J

9 / K



RAHMEN TYPE

BPA 2-6 ARMG #257
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #258
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #259
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #260
PATCH BOX

DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	FDF #3 PANEL (5th FLOOR) FDF BOX #257 ~ #260	321
WORK NAME						
부산항 신항 서면 2-6 단계		DRAWING NO.		CONT.SH.		322
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)						

5			
4			
3			
2			
1			

0 / A

1 / B

2 / C

3 / D

4 / E

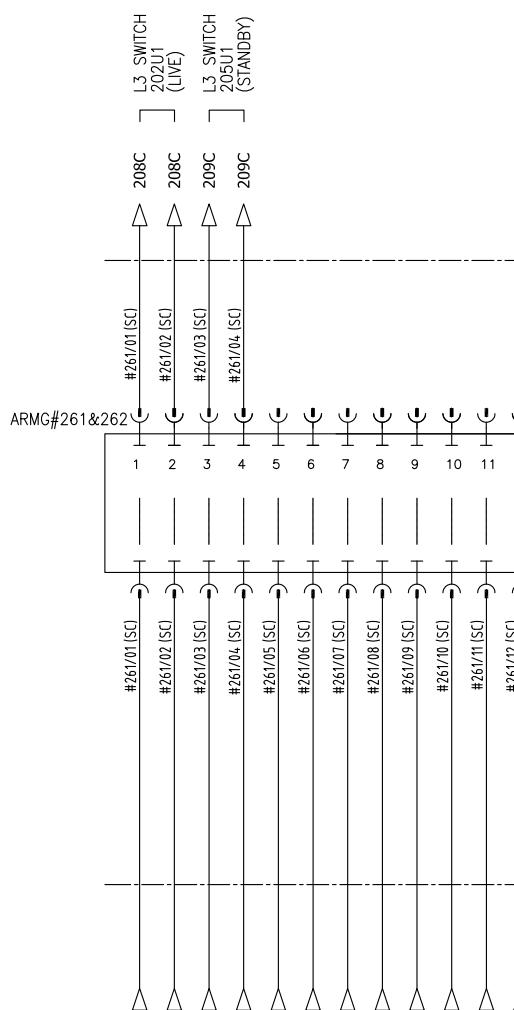
5 / F

6 / G

7 / H

8 / J

9 / K



RAHMEN TYPE

BPA 2-6 ARMG #261
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #262
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #263
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #264
PATCH BOX

5			
4			
3			
2			
1			



Electric Co.,Ltd.

DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
					FDF #3 PANEL (5th FLOOR) FDF BOX #261 ~ #264	
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002		322
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 323

2025.04.14

2025.04.14

2025.04.14

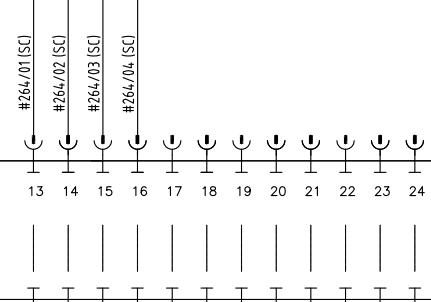
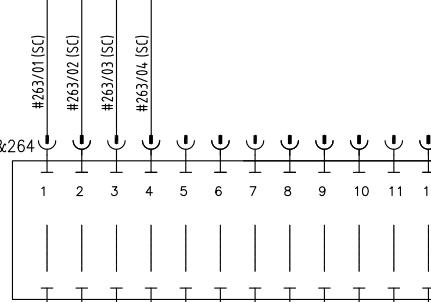
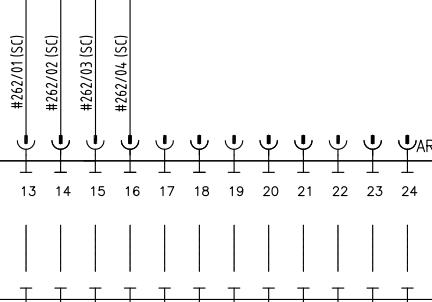
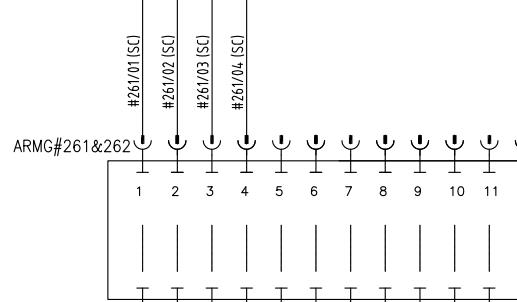
[FDF3]

2025.04.14

2025.04.14

2025.04.14

[FDF3]



0 / A

1 / B

2 / C

3 / D

4 / E

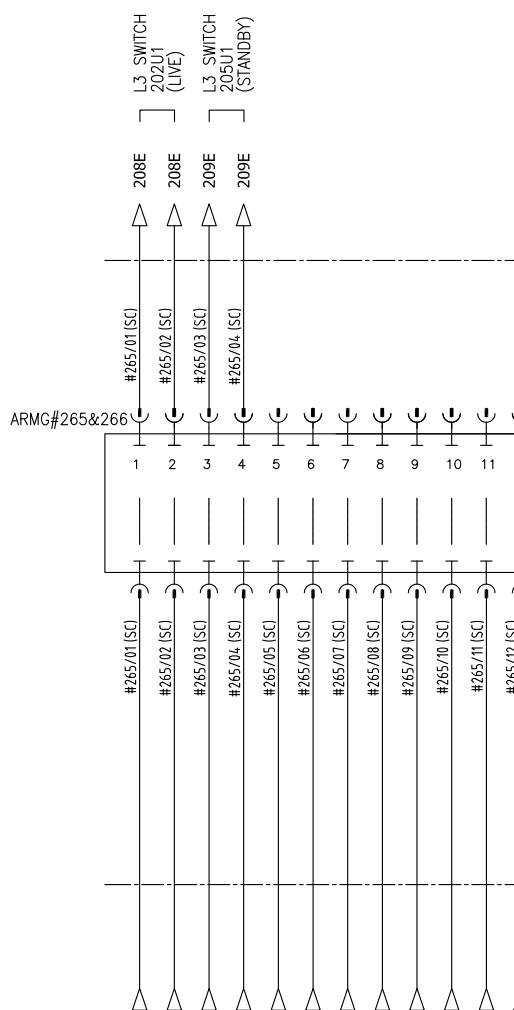
5 / F

6 / G

7 / H

8 / J

9 / K



RAHMEN TYPE

BPA 2-6 ARMG #265
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #266
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #267
PATCH BOX

RAHMEN TYPE

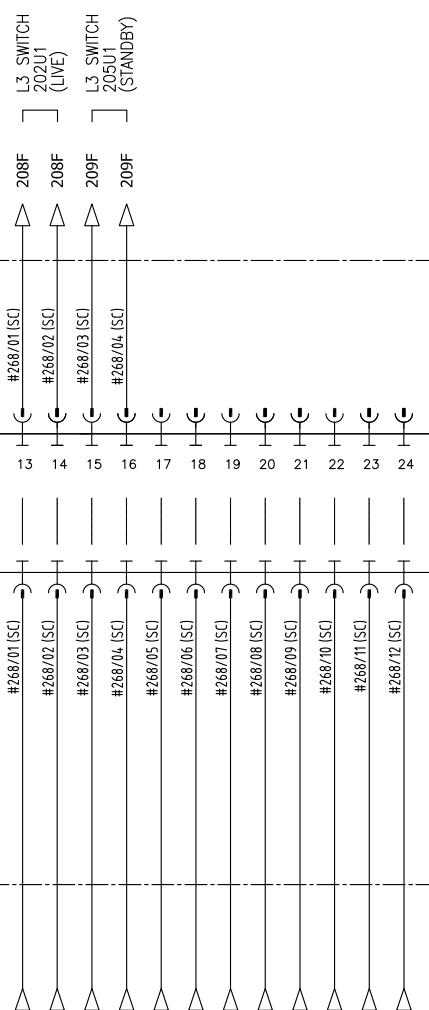
BPA 2-6 ARMG #268
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE FDF #3 PANEL (5th FLOOR) FDF BOX #265 ~ #268	SH. NO. 323
D.H.JEONG	B.H.HWANG	I.H.BANG				
2025.04.14	2025.04.14	2025.04.14				

WORK NAME
부산항 신항 서면 2-6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMG)



[FDF3]

[FDF3]

BPA 2-6 ARMG #268
PATCH BOX

CONT.SH. 324

0 / A

1 / B

2 / C

3 / D

4 / E

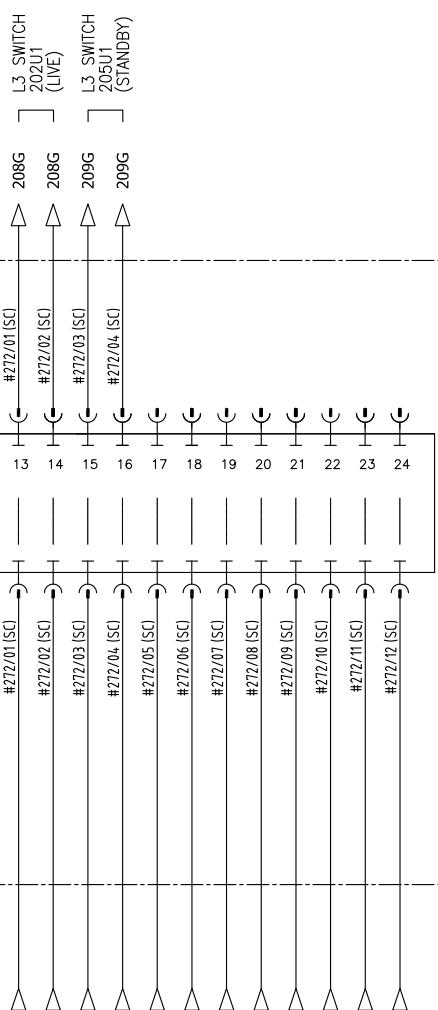
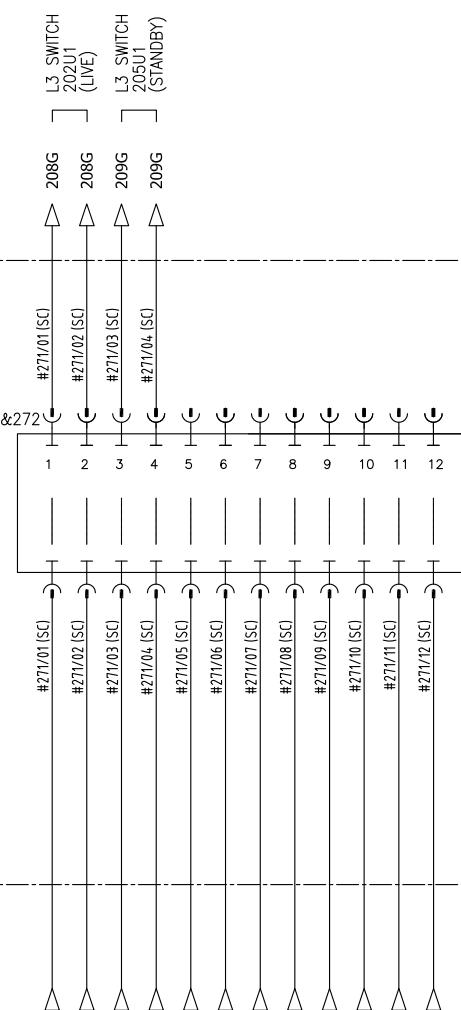
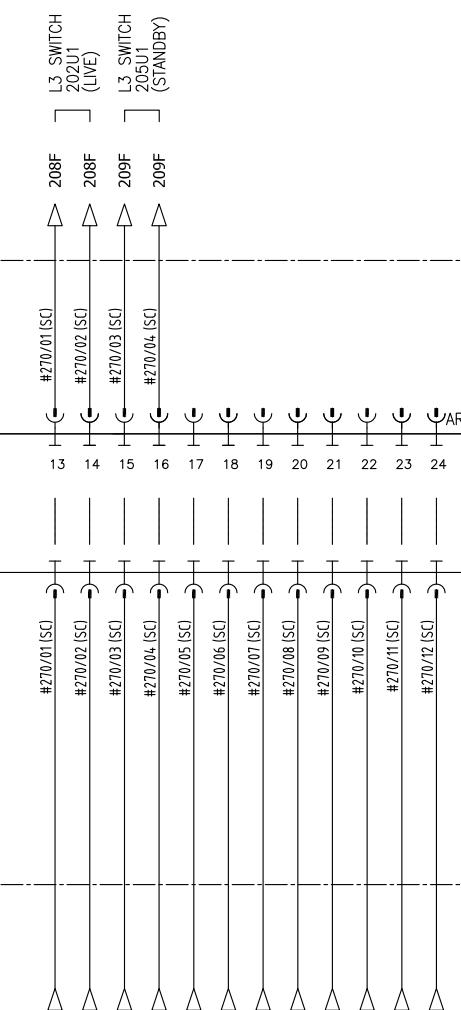
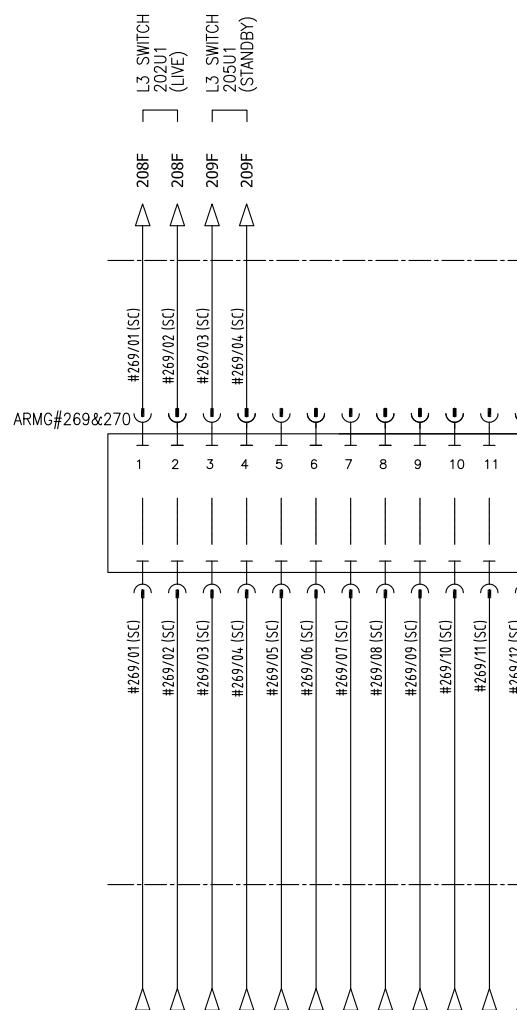
5 / F

6 / G

7 / H

8 / J

9 / K



CANTILEVER TYPE

BPA 2-6 ARMG #269
PATCH BOX

CANTILEVER TYPE

BPA 2-6 ARMG #270
PATCH BOX

CANTILEVER TYPE

BPA 2-6 ARMG #271
PATCH BOX

CANTILEVER TYPE

BPA 2-6 ARMG #272
PATCH BOX

5			
4			
3			
2			
1			



DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE
D.H.JEONG	B.H.HWANG	I.H.BANG			FDF #3 PANEL (5th FLOOR) FDF BOX #269 ~ #272
2025.04.14	2025.04.14	2025.04.14		PJ24-002	DRAWING NO.

SH. NO.	324
	부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)
CONT.SH.	325

[FDF3]

[FDF3]

0 / A

1 / B

2 / C

3 / D

4 / E

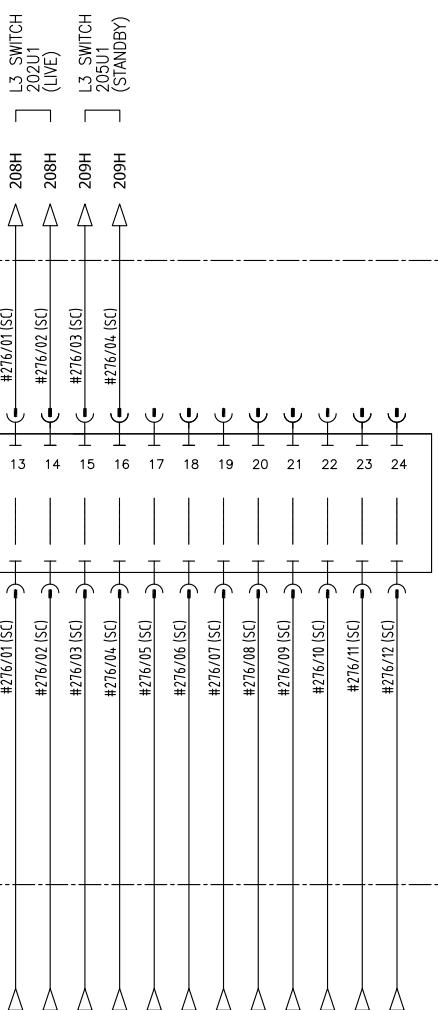
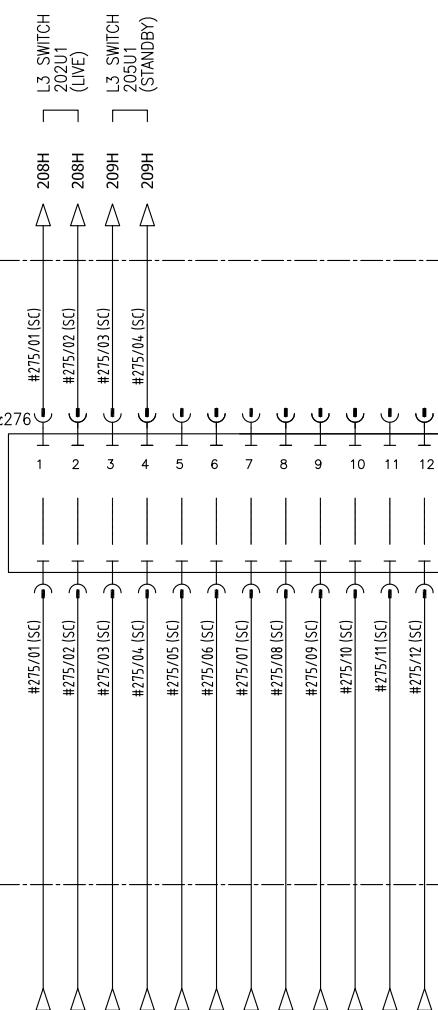
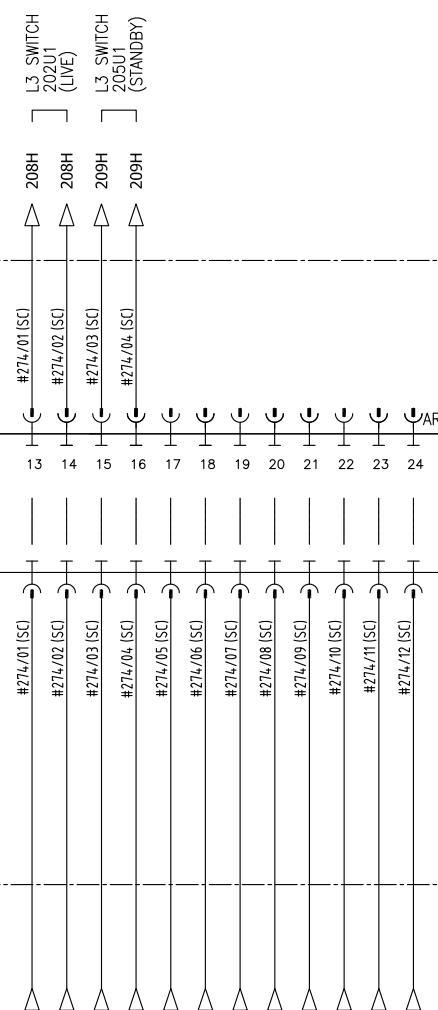
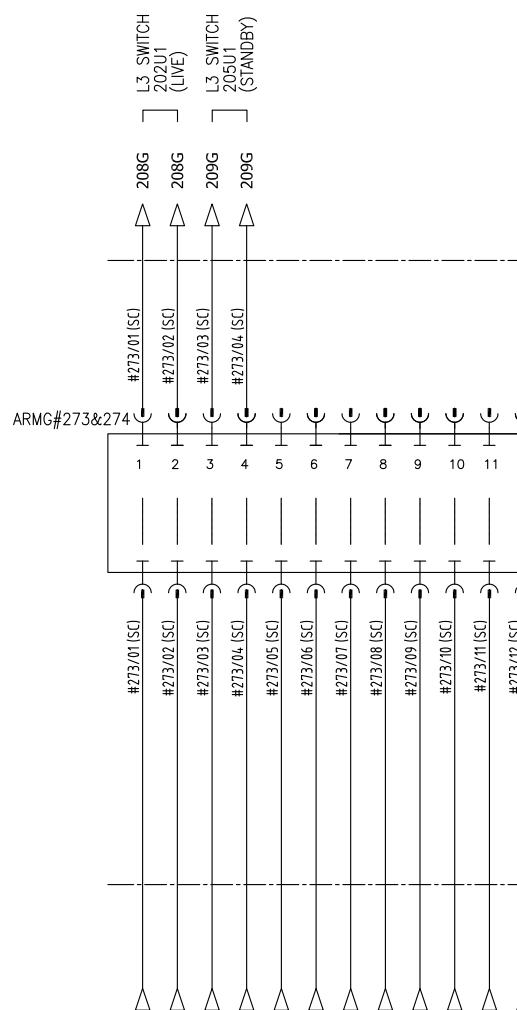
5 / F

6 / G

7 / H

8 / J

9 / K



RAHMEN TYPE

BPA 2-6 ARMG #273
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #274
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #275
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #276
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	FDF #3 PANEL (5th FLOOR) FDF BOX #273 ~ #276	
2025.04.14	2025.04.14	2025.04.14		부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO. CONT.SH.	325 326

0 / A

1 / B

2 / C

3 / D

4 / E

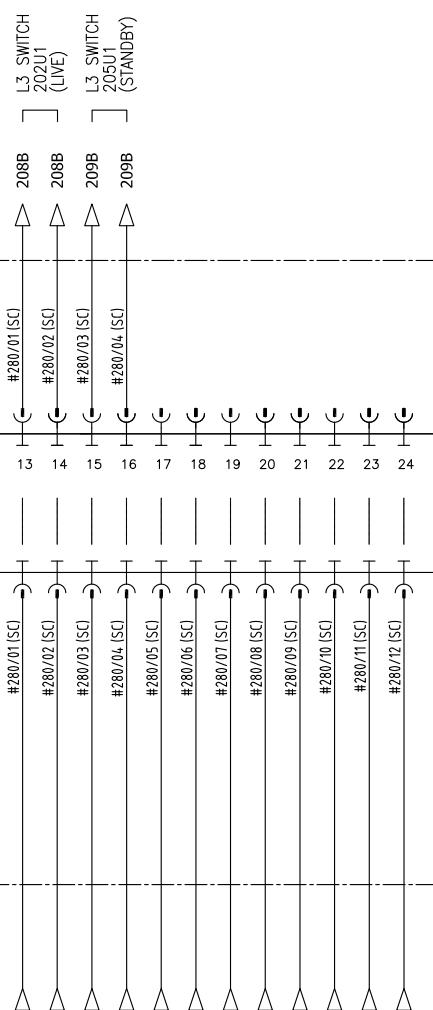
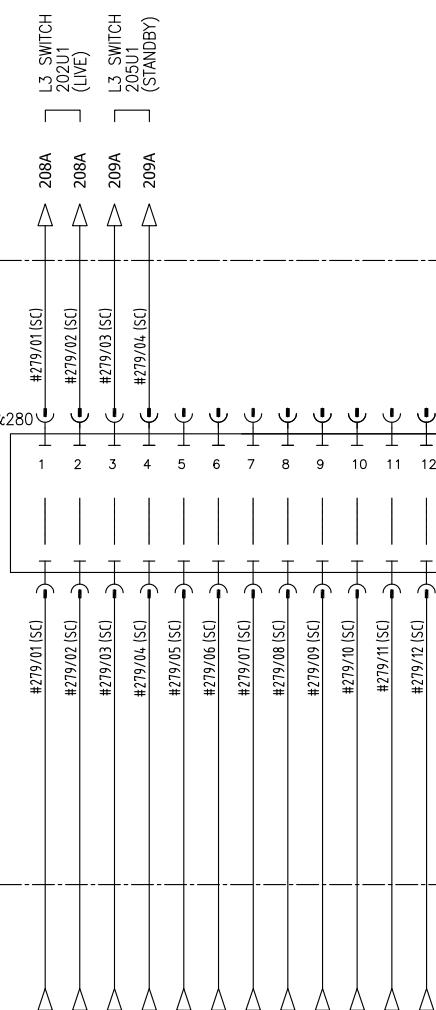
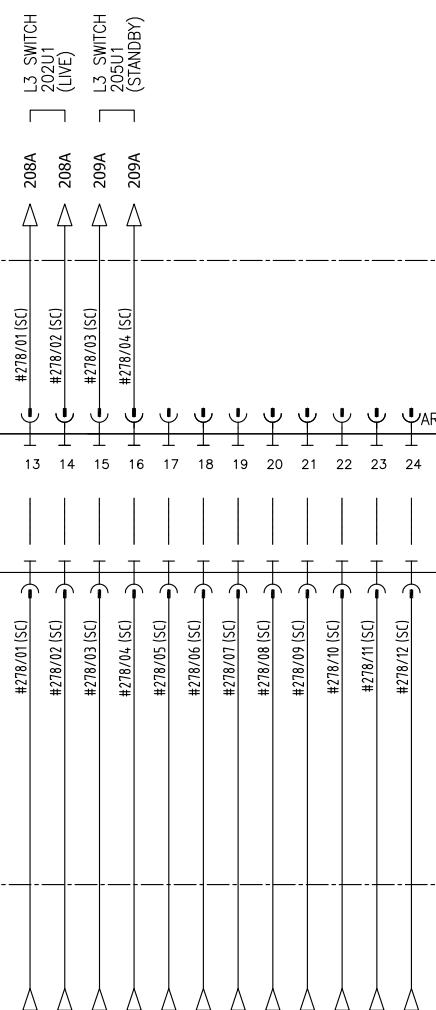
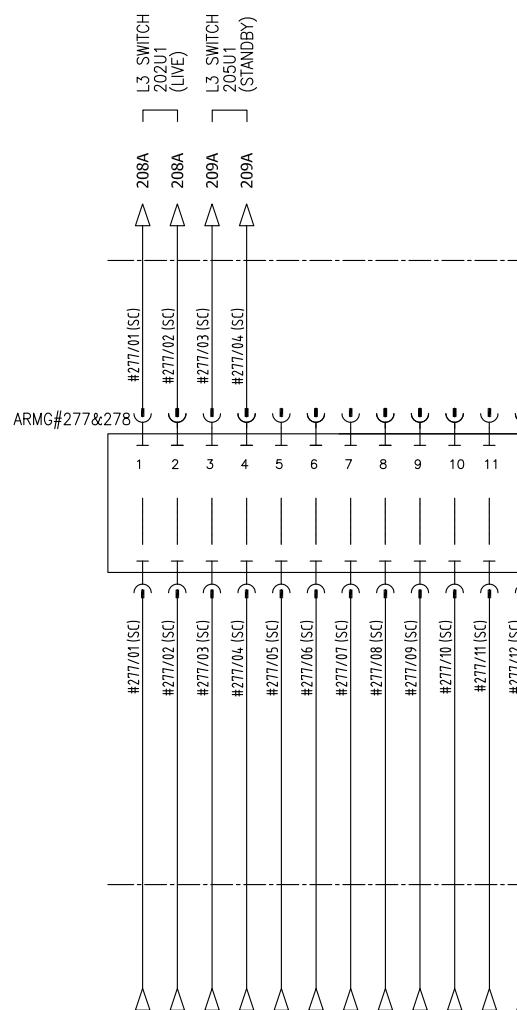
5 / F

6 / G

7 / H

8 / J

9 / K



[FDF3]

[FDF3]

RAHMEN TYPE

BPA 2-6 ARMG #277
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #278
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #279
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #280
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG	PJ24-002	FDF #3 PANEL (5th FLOOR) FDF BOX #277 ~ #280	326	
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO. CONT.SH.	327

0 / A

1 / B

2 / C

3 / D

4 / E

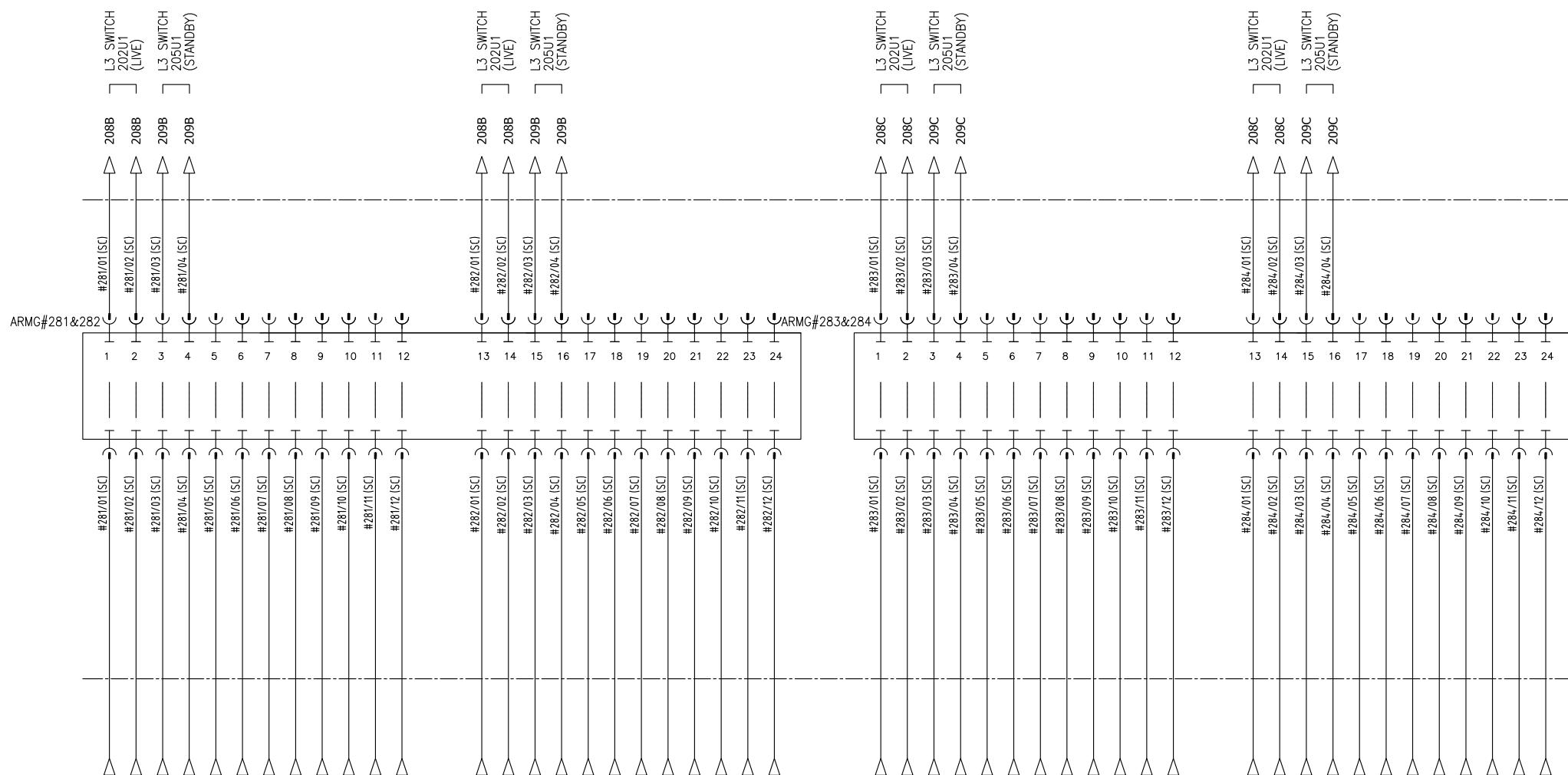
5 / F

6 / G

7 / H

8 / J

9 / K



RAHMEN TYPE

BPA 2-6 ARMG #281
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #282
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #283
PATCH BOX

RAHMEN TYPE

BPA 2-6 ARMG #284
PATCH BOX

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	FDF #3 PANEL (5th FLOOR) FDF BOX #281 ~ #284	
2025.04.14	2025.04.14	2025.04.14		부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 328

0 / A

1 / B

2 / C

3 / D

4 / E

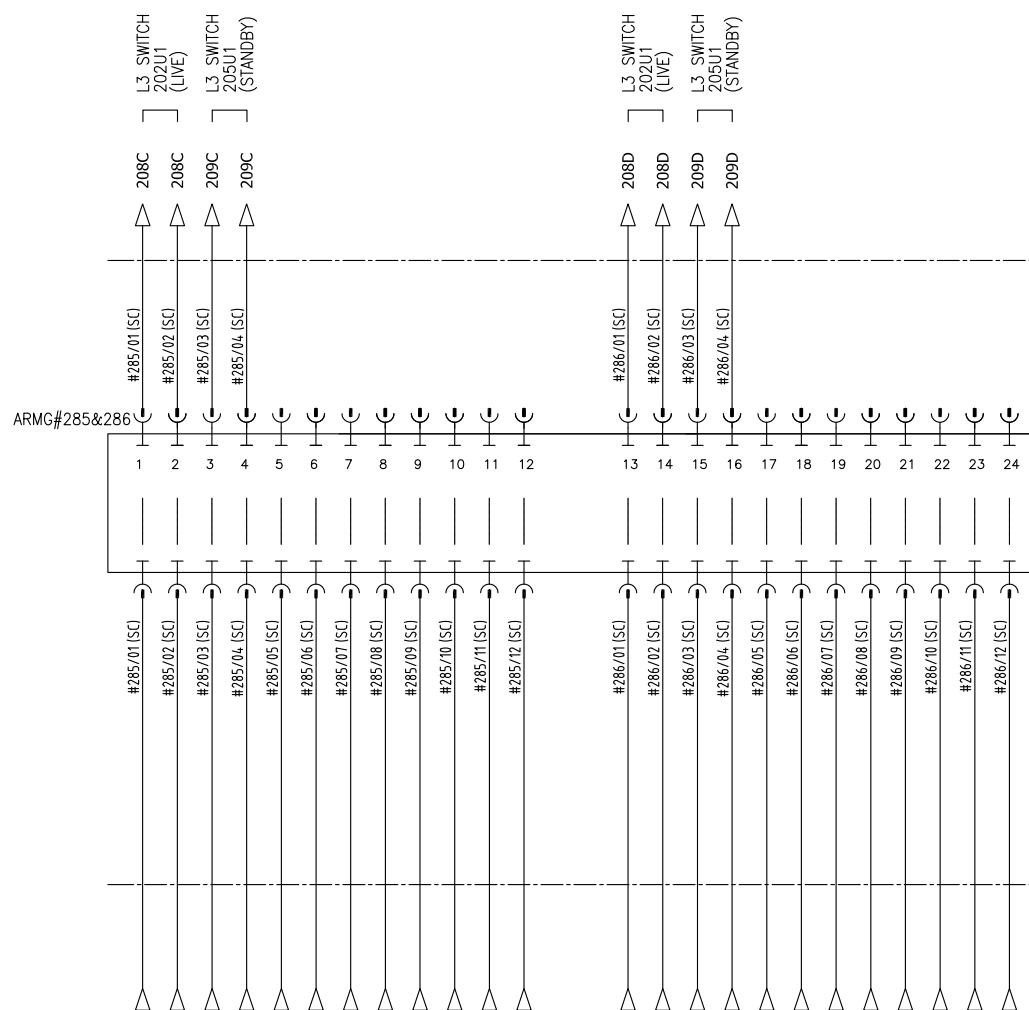
5 / F

6 / G

7 / H

8 / J

9 / K



CANTILEVER TYPE

BPA 2-6 ARMG #285
PATCH BOX

CANTILEVER TYPE

BPA 2-6 ARMG #286
PATCH BOX

**SHIPBUILDING &
CONSTRUCTION**
SEOHO
Electric Co.,Ltd.

DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE FDF #3 PANEL (5th FLOOR) FDF BOX #285 ~ #286	SH. NO. 328
D.H.JEONG	B.H.HWANG	I.H.BANG				
2025.04.14	2025.04.14	2025.04.14				
2025.04.14	2025.04.14	2025.04.14		WORK NAME 부산항 신항 서면 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)	DRAWING NO.	CONT.SH. 400

0 / A

1 / B

2 / C

3 / D

4 / E

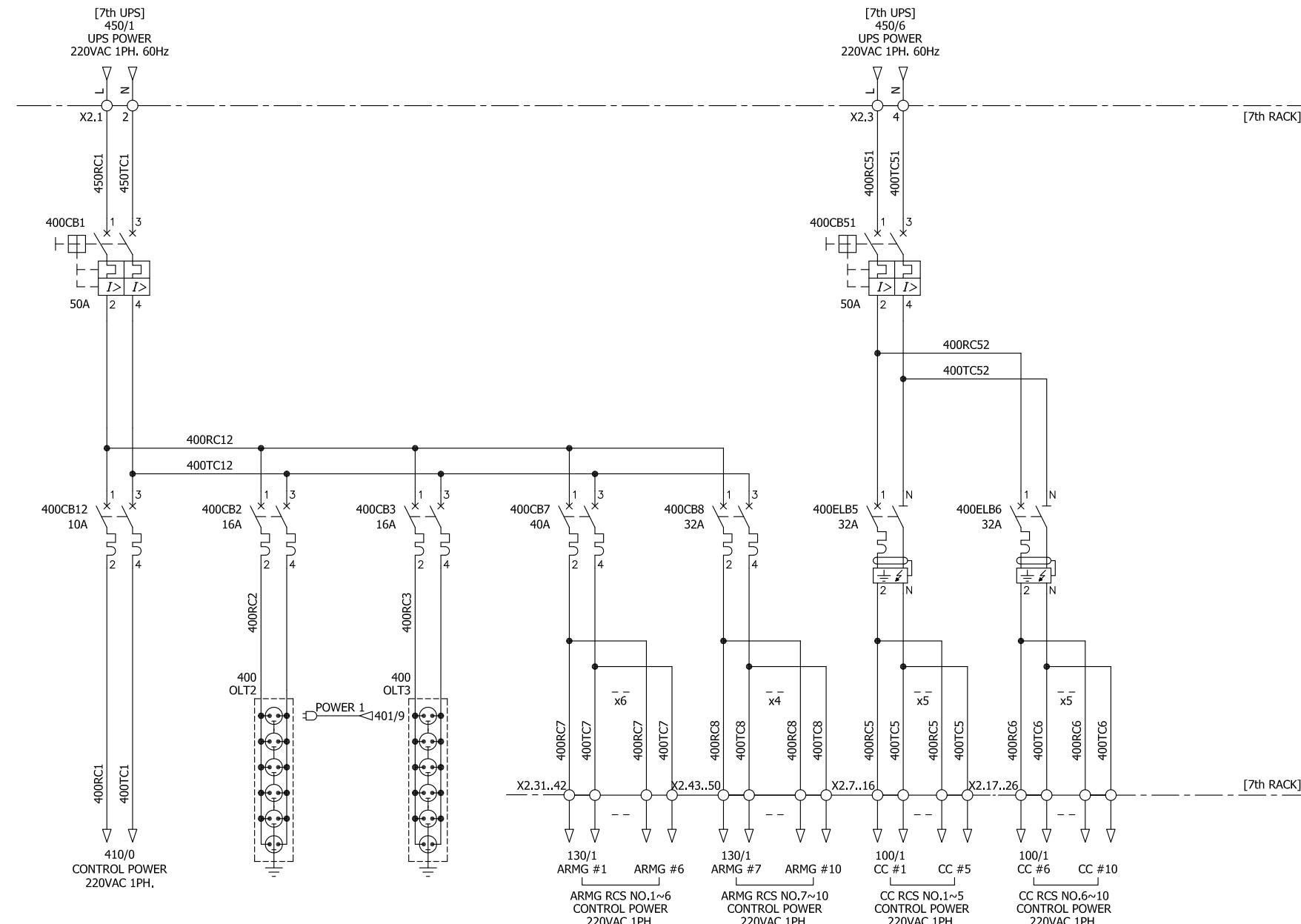
5 / F

6 / G

7 / H

8 / J

9 / K



5			
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2			
1			

0 / A

1 / B

2 / C

3 / D

4 / E

5 / F

6 / G

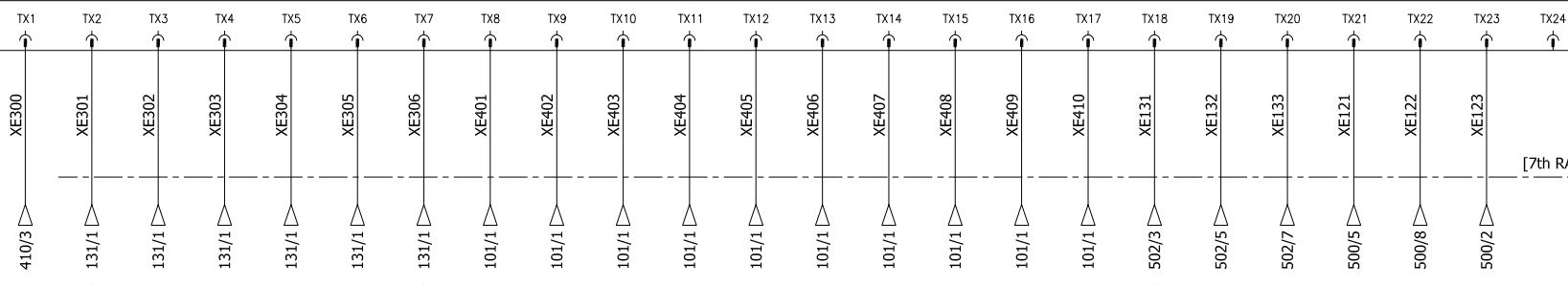
7 / H

8 / J

9 / K

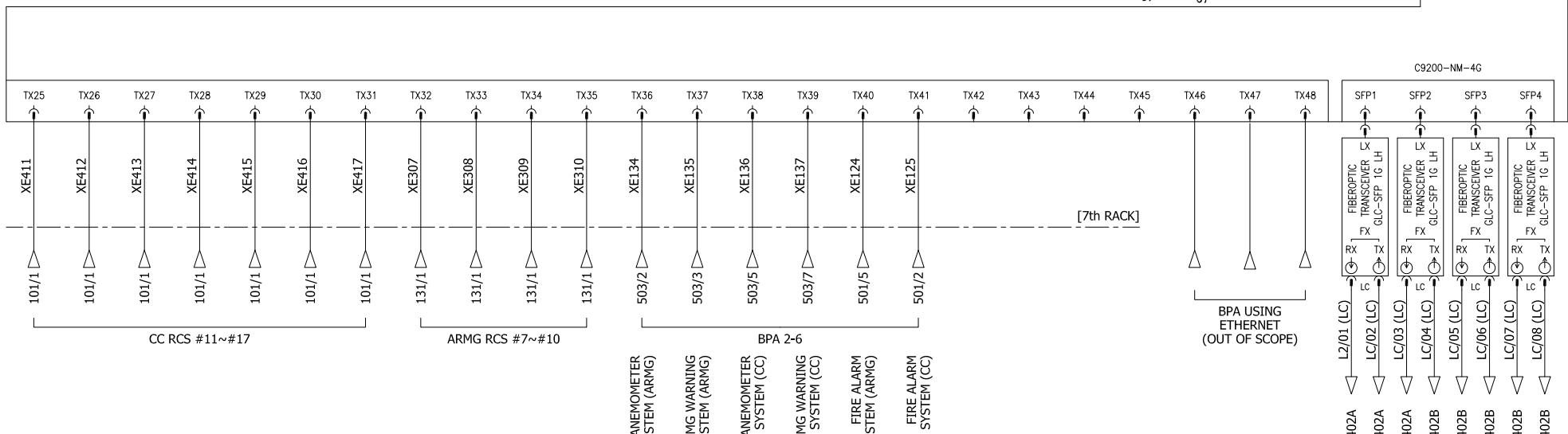
401U1

ETHERNET L2 SWITCH
C9200L-48T-4G-E
CISCO



400/3

POWER 1
100-240VAC



5			
4			
3			
2			
1			



DRAWN. BY

DESIGN BY

CHECK. BY

APPRV. BY

WORK NO.

TITLE

SH. NO.

D.H.JEONG

B.H.HWANG

I.H.BANG

PJ24-002

RACK PANEL (7th FLOOR)

NETWORK

401

WORK NAME

부산항 신항 서구 2-6 단계

AUTO RAIL MOUNTED GANTRY CRANE (ARMG)

DRAWING NO.

CONT.SH.

402

2025.04.14

2025.04.14

2025.04.14

0 / A

1 / B

2 / C

3 / D

4 /

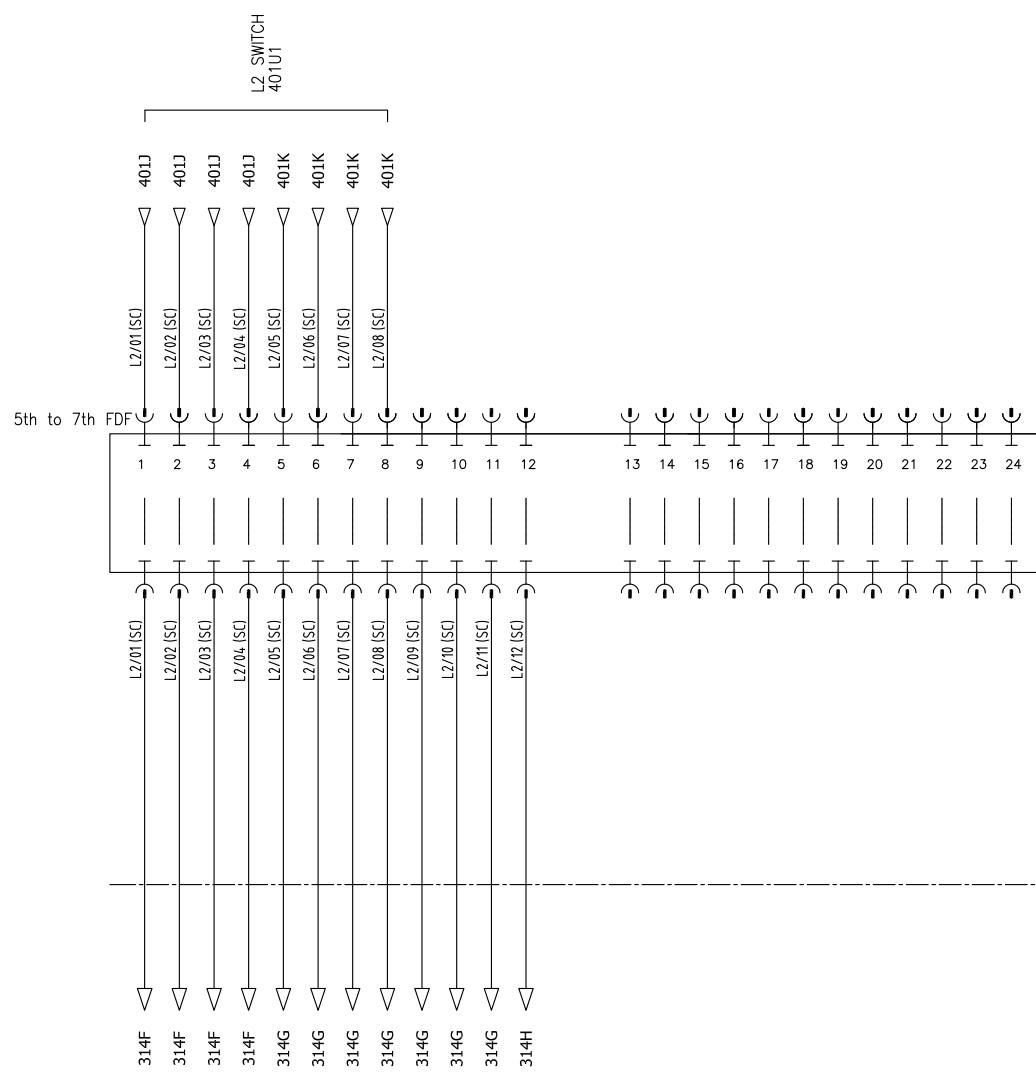
5 /

6 /

7

8

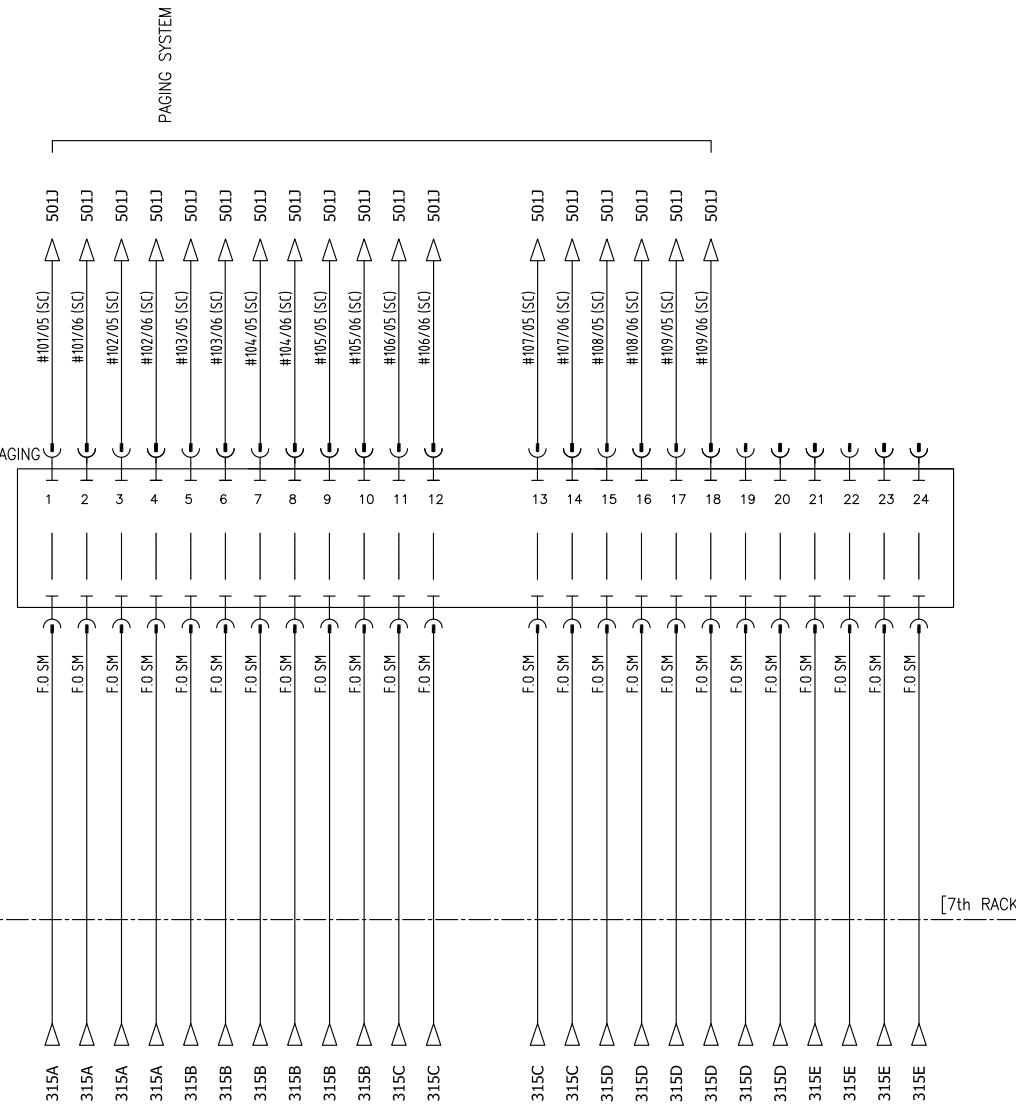
9 / K



FROM : 5th FLOOR FDF PANEL
5th to 7th PATCH BOX



BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
ANG	I.H.BANG		PJ24-002	RACK PANEL (7th FLOOR) FDF BOX 5th to 7th, #PAGING	402
			WORK NAME 부산항 신항 서구 2~6 단계	DRAWING NO.	CONT.SH
4.14	2025.04.14		AUTO RAIL MOUNTED GANTRY CRANE (ARMG)		410



TO : 5th FLOOR FDF PANEL
PAGING PATCH BOX

0 / A

1 / B

2 / C

3 / D

4 / E

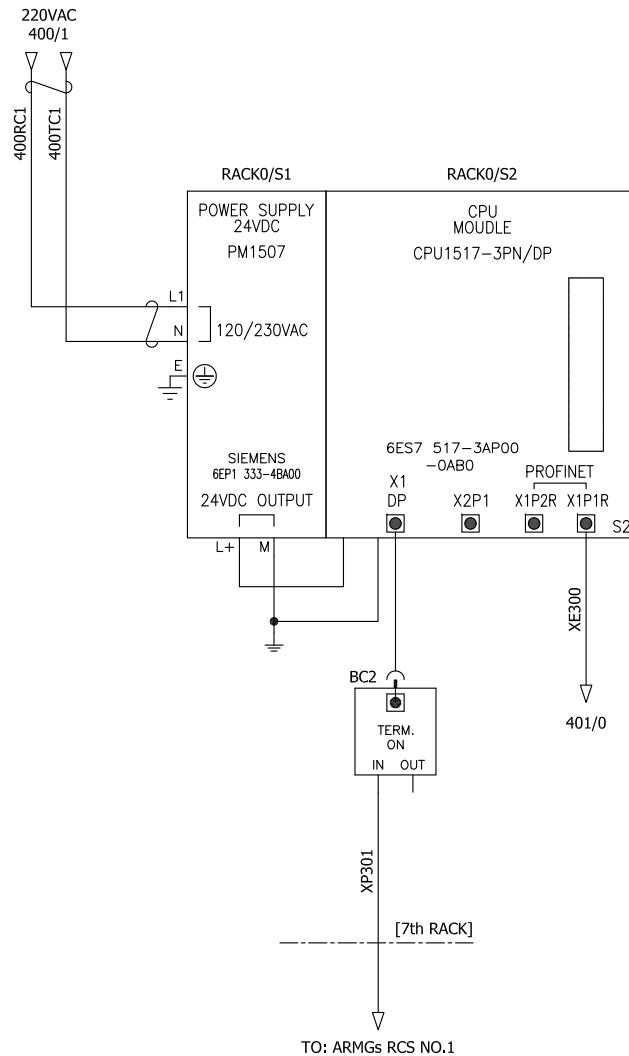
5 / F

6 / G

7 / H

8 / J

9 / K



DETAILS REFER HJSC-E04-D10 / SH.135

5			
4			
3			
2			
1			

DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	RACK PANEL (7th FLOOR) PLC CONFIGURATION	410
WORK NAME					DRAWING NO.	CONT.SH.
부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)						
						450

0 / A

1 / B

2 / C

3 / D

4 / E

5 / F

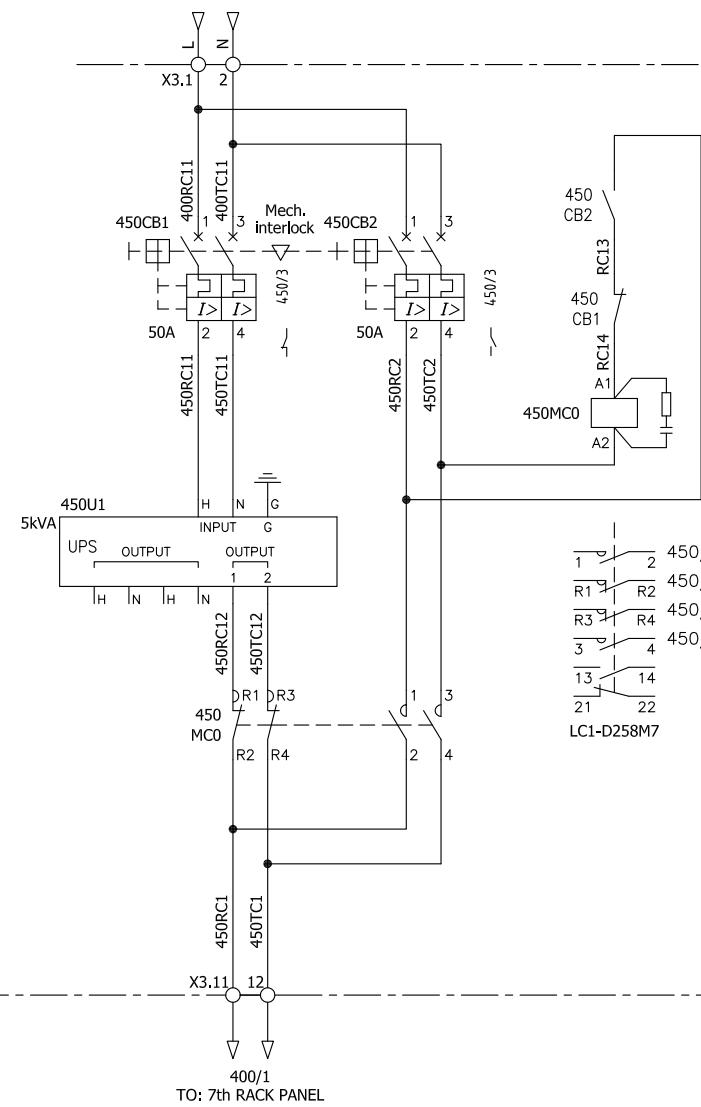
6 / G

7 / H

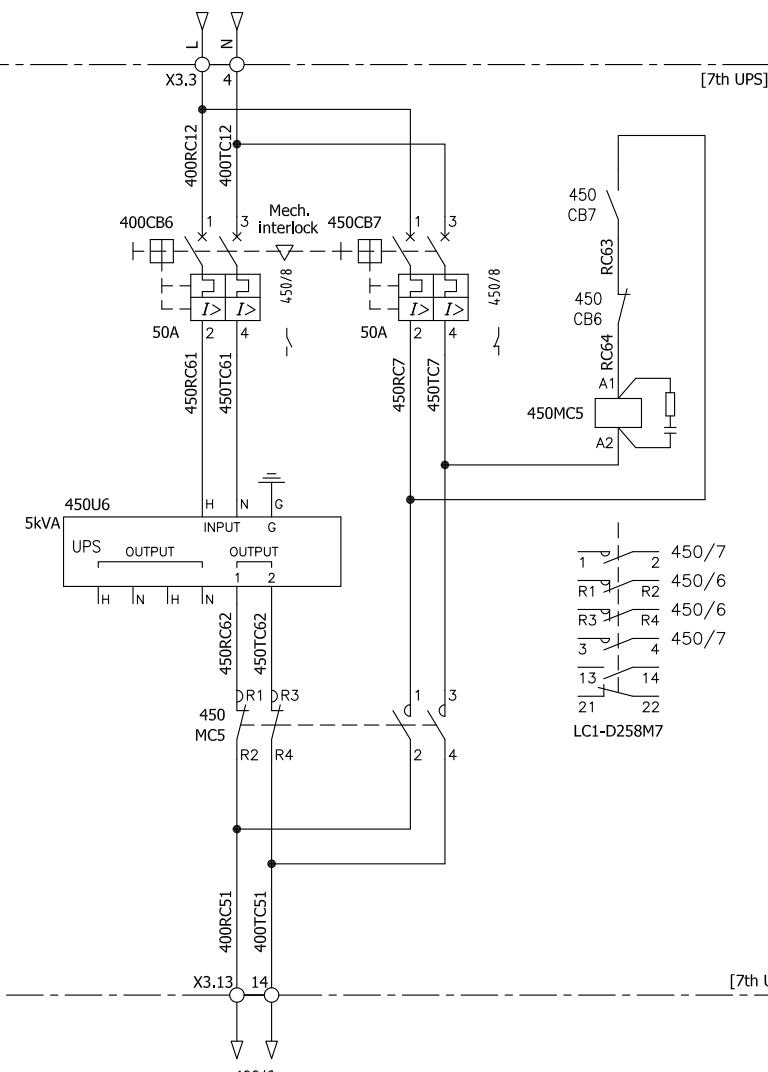
8 / J

9 / K

FROM : 7th DISTRIBUTION BOX
INCOMING
CONTROL POWER
220VAC 1PH. 60Hz

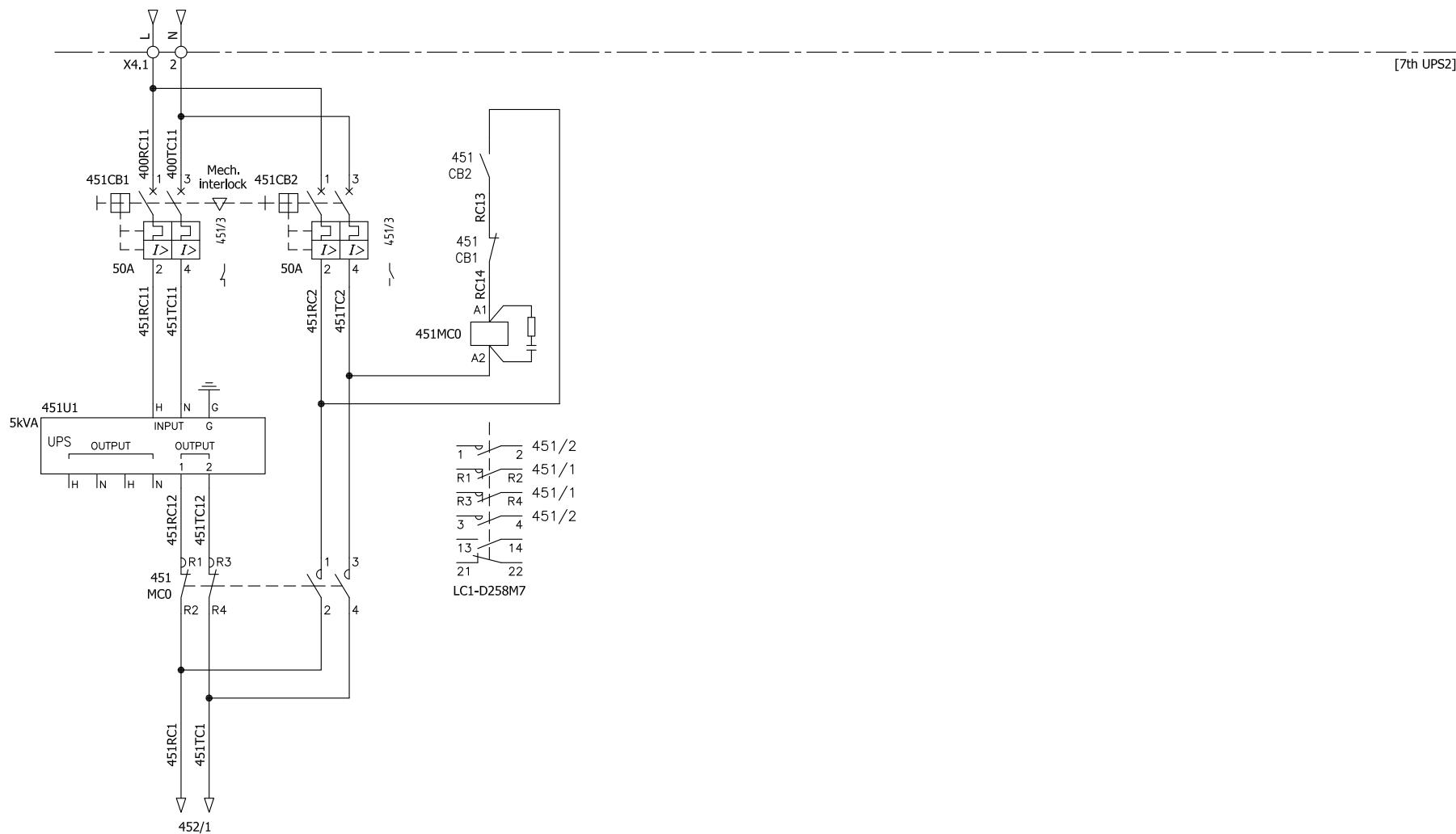


FROM : 7th DISTRIBUTION BOX
INCOMING
CONTROL POWER
220VAC 1PH. 60Hz



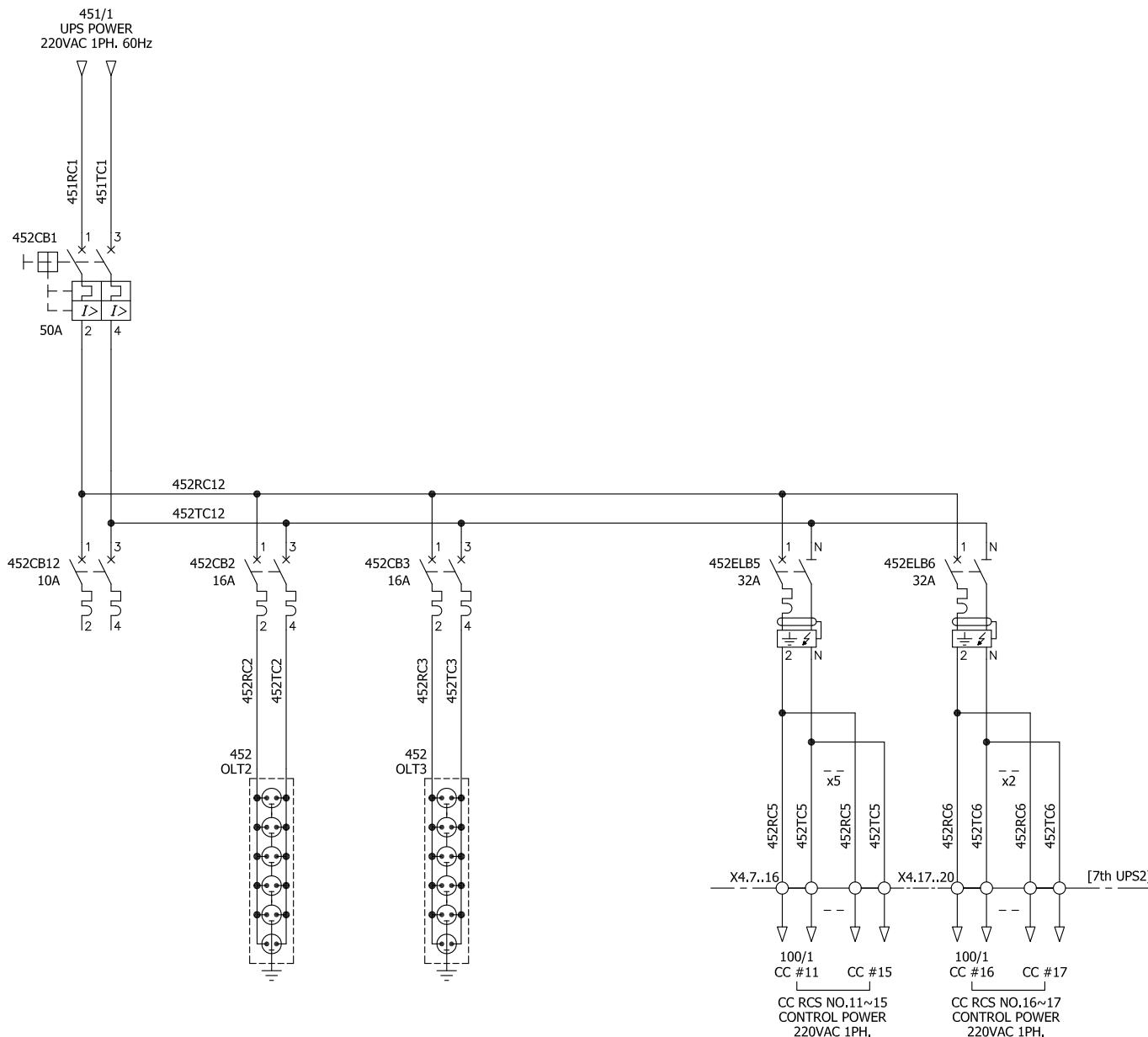
5			
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FROM : 7th DISTRIBUTION BOX
INCOMING
CONTROL POWER
220VAC 1PH. 60Hz

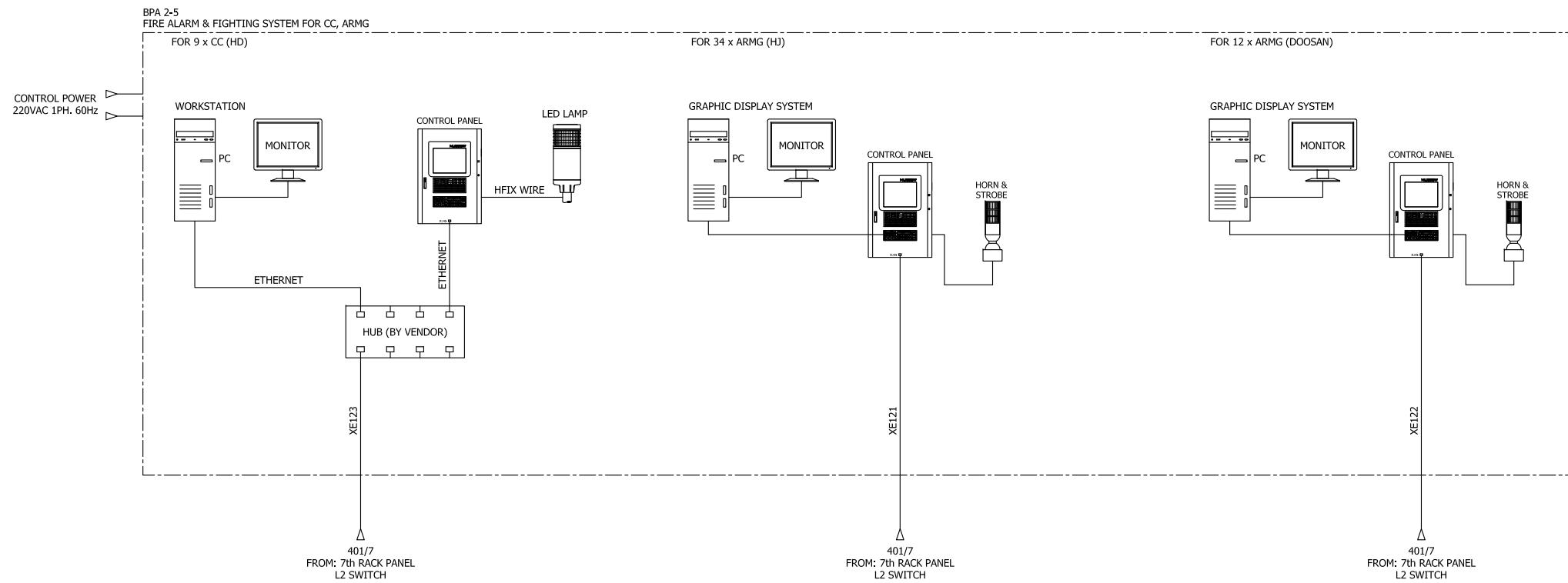


CC RCS NO.11~17
CONTROL POWER
220VAC 1PH.

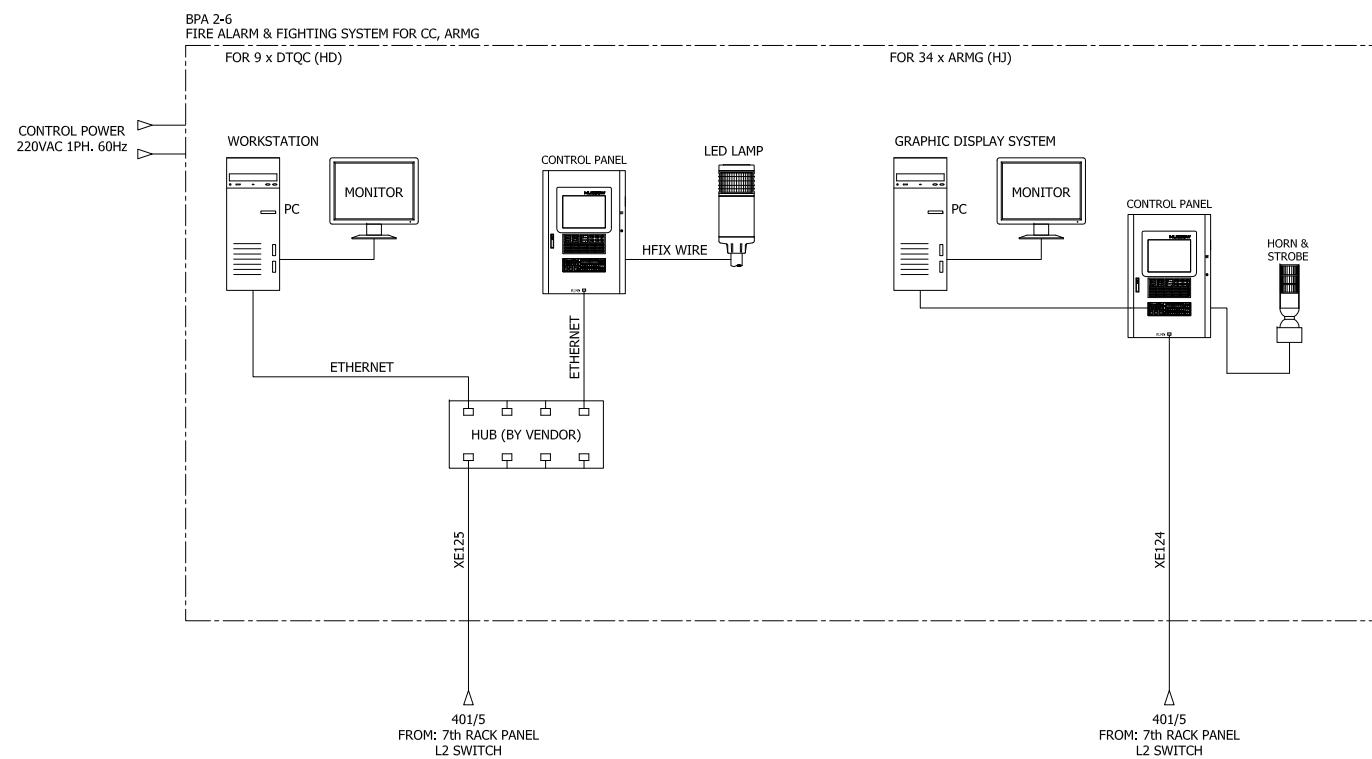
5			
4			
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2			
1			



△5			
△4			
△3			
△2			
△1			



5			
4			
3			
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5			
4			
3			
2			
1			

0 / A

1 / B

2 / C

3 / D

4 / E

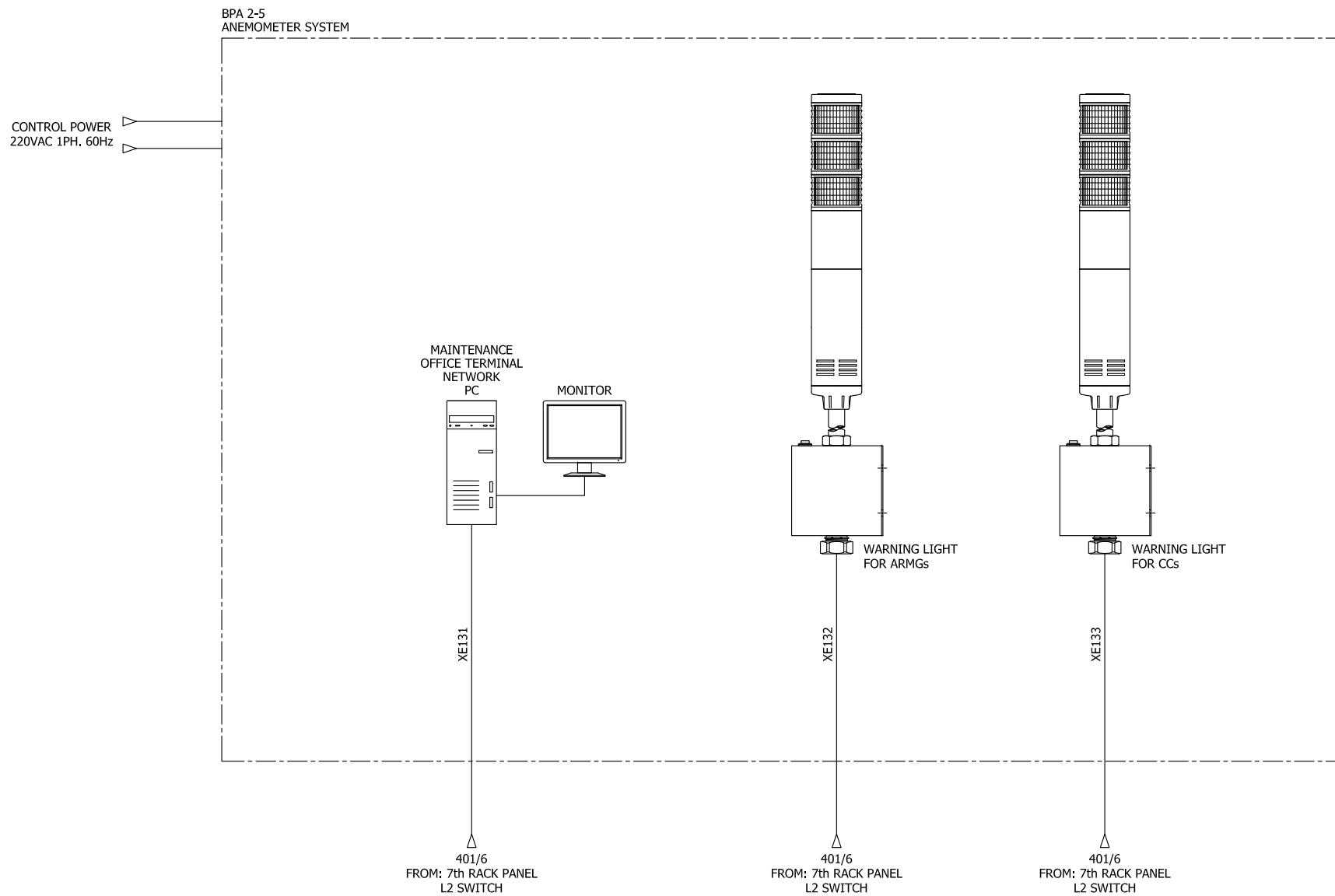
5 / F

6 / G

7 / H

8 / J

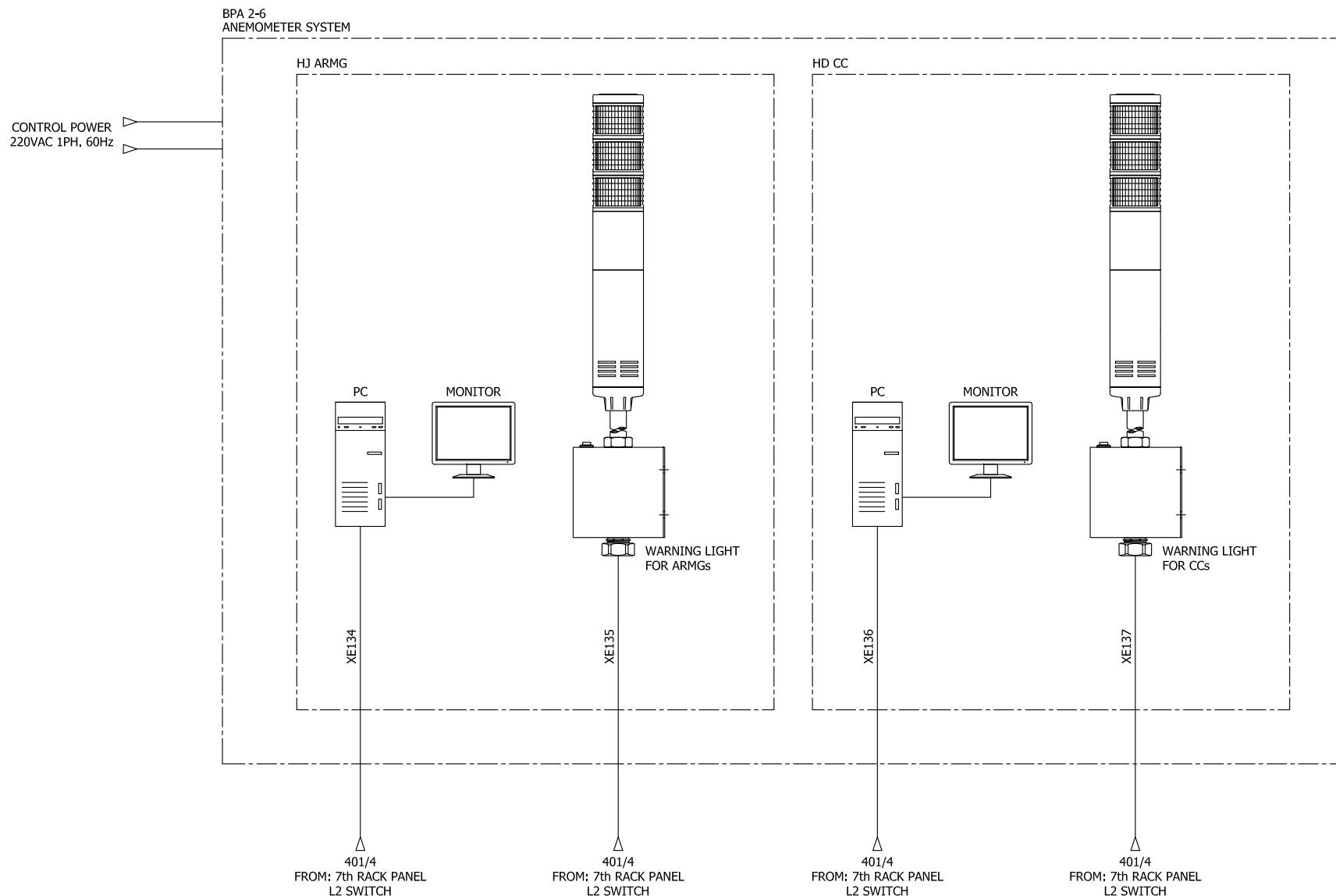
9 / K



5			
4			
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2			
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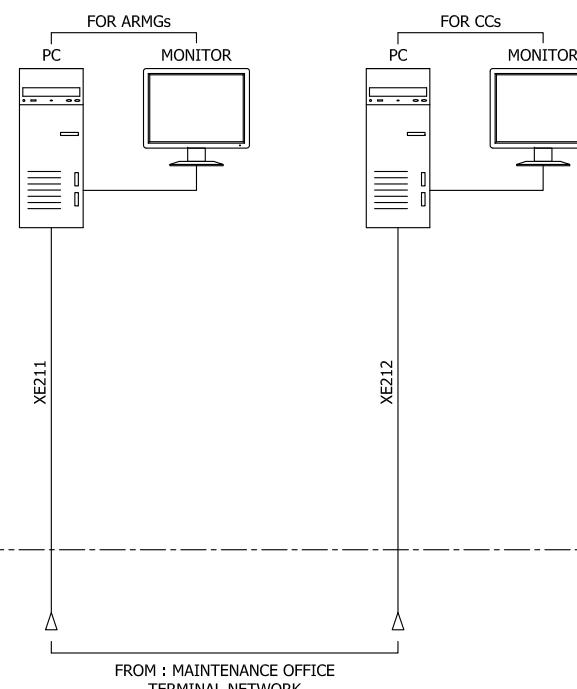
DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE REMOTE CONTROL CENTER ANEMOMETER SYSTEM	SH. NO.	
D.H.JEONG	B.H.HWANG	I.H.BANG				502	
WORK NAME 부산항 신항 서구 2~6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)				DRAWING NO.		CONT.SH.	
						503	



5			
4			
3			
2			
1			

BPA 2-5
HOISTING MACHINERY MONITORING SYSTEM

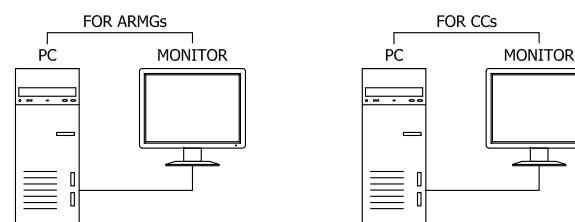
CONTROL POWER
220VAC 1PH, 60Hz



5			
4			
3			
2			
1			

BPA 2-6
HOISTING MACHINERY MONITORING SYSTEM

CONTROL POWER
220VAC 1PH, 60Hz



FROM : MAINTENANCE OFFICE
TERMINAL NETWORK

5			
4			
3			
2			
1			



DRAWN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO. PJ24-002	TITLE MAINTENANCE OFFICE HOISTING MACHINERY MONITORING SYSTEM	SH. NO.	
D.H.JEONG	B.H.HWANG	I.H.BANG				505	
WORK NAME 부산항 신항 서구 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)				DRAWING NO.		CONT.SH.	
						P100	

ELECTRICAL DRAWINGS
FOR
부산항 신항 서컨 2-6 단계
AUTO RAIL MOUNTED GANTRY CRANE (ARMGC)
OUTLINE DIAGRAM

REMOTE CONSOLE

△5		
△4		
△3		
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DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	REMOTE CONSOLE DRAWING COVER	P100
WORK NAME					DRAWING NO.	CONT.SH.
부산항 신항 서컨 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)						
						P101

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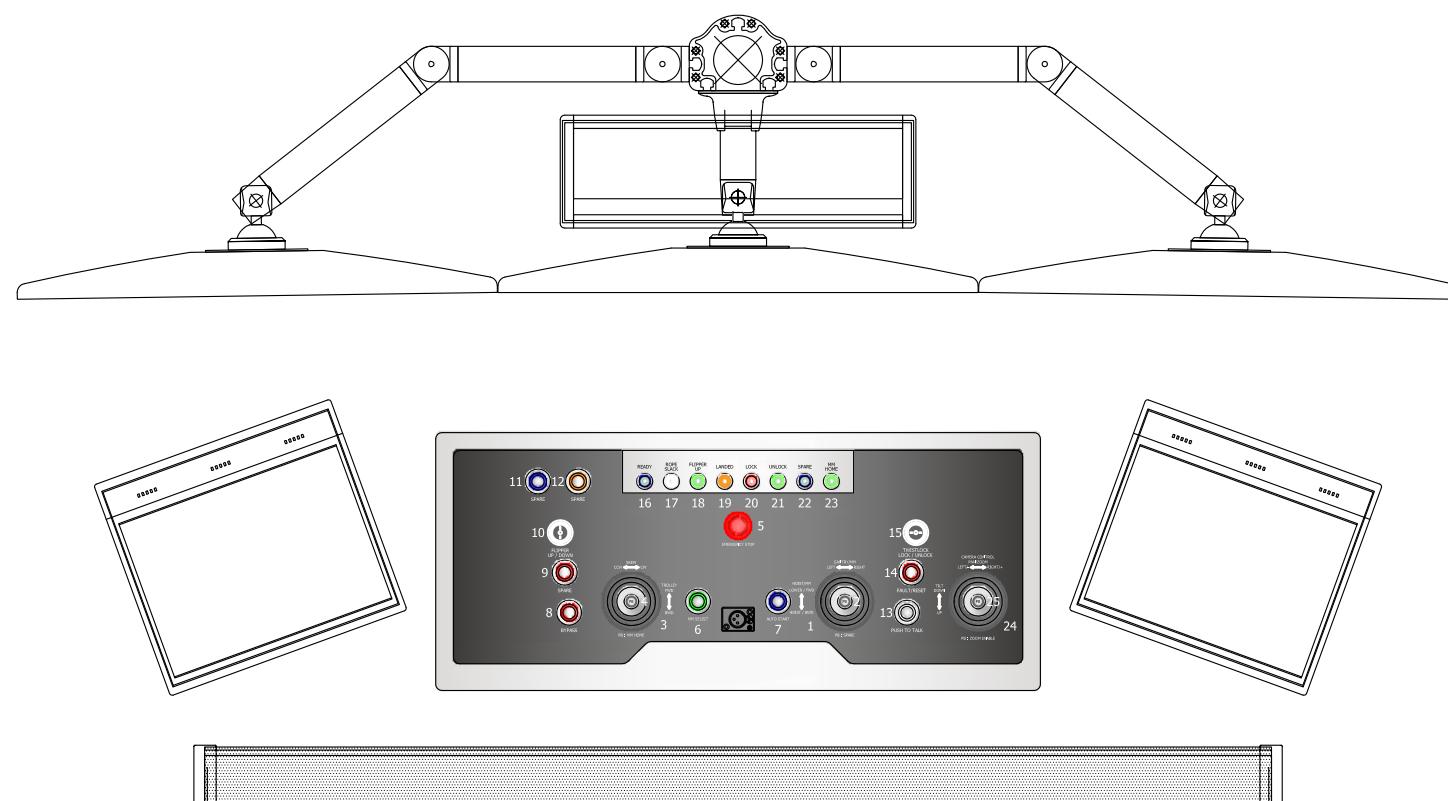
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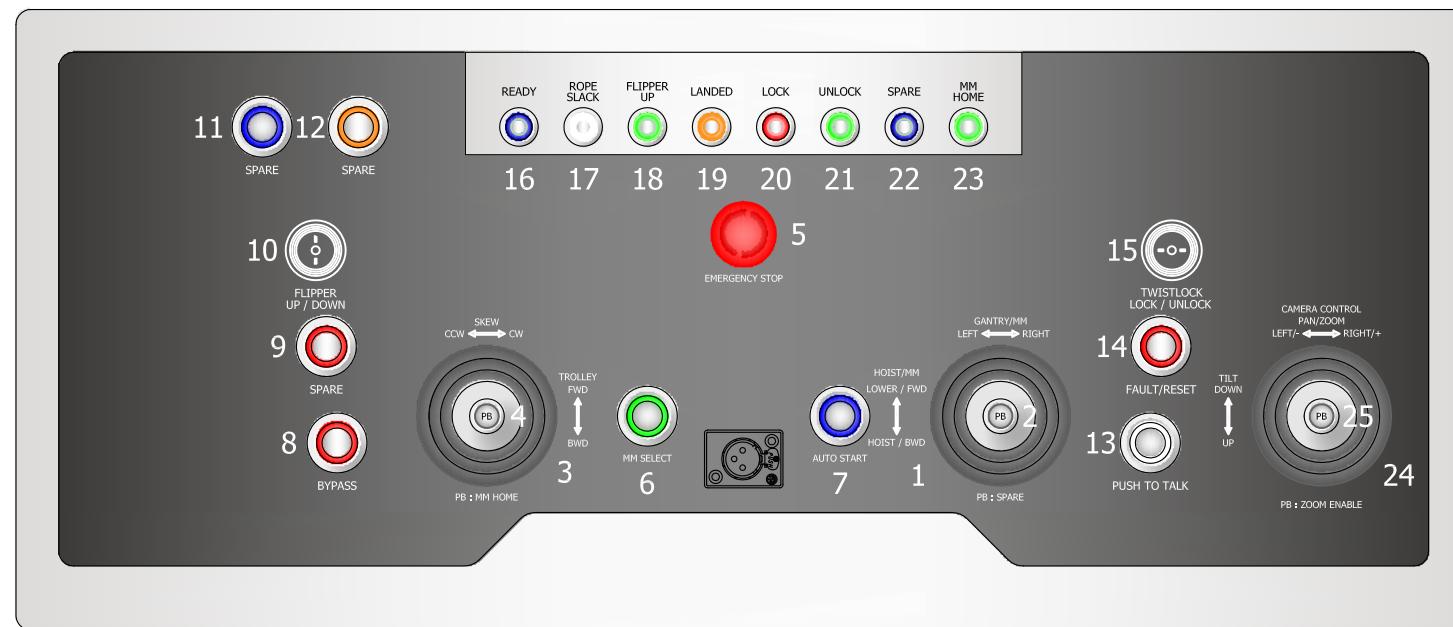
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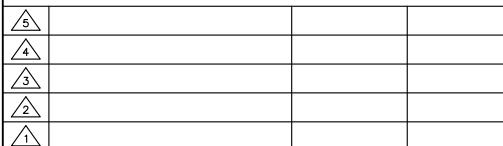


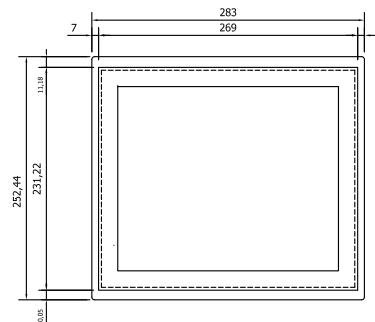
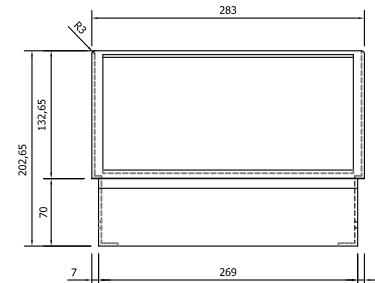
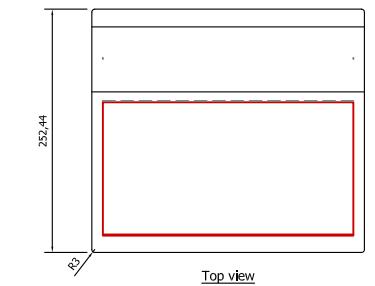
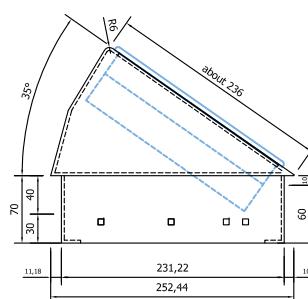
DRAWIN. BY	DESIGN BY	CHECK. BY	APPRV. BY	WORK NO.	TITLE	SH. NO.
D.H.JEONG	B.H.HWANG	I.H.BANG		PJ24-002	REMOTE CONSOLE SWITCH BOARD & HMI BOARD ARRANGEMENT	P101
WORK NAME					DRAWING NO.	CONT.SH.
부산항 신항 서구 2-6 단계 AUTO RAIL MOUNTED GANTRY CRANE (ARMG)						P102



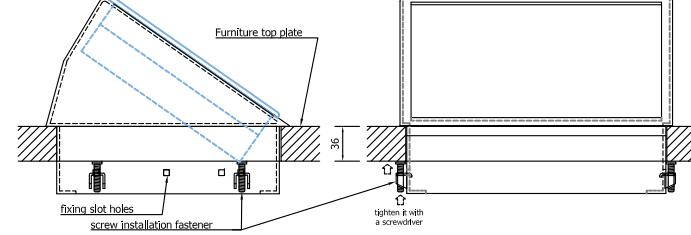
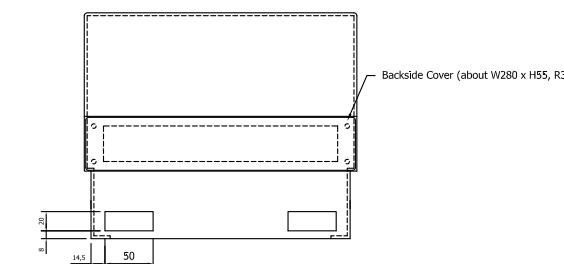
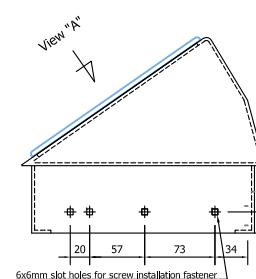
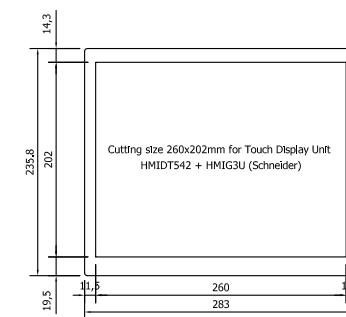
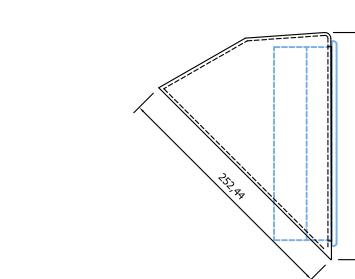
NO.	DESCRIPTION & NAME PLATE	DEVICE SPEC.	DEVICE CODE	REMARKS
1	MASTER CONTROLLER HOIST FWD-BWD / GANTRY L-R	SMON 6K VRHD(K)	140MS5	SEHWAN
2	SPARE (JOYSTICK BUTTON)	SMON 6K VRHD(K)	140MS5	SEHWAN
3	MASTER CONTROLLER TROLLEY FWD-BWD / SKEW CCW-CW	SMON 6K VRHD(K)	140MS1	SEHWAN
4	MM HOME (JOYSTICK BUTTON)	SMON 6K VRHD(K)	140MS1	SEHWAN
5	EMERGENCY STOP	EMERGENCY STOP SWITCH XB6AS94349B	136ESS	SCHNEIDER
6	MM SELECT	ILLUMINATE PUSH BUTTON - GREEN PBM25-22M-F-RG24-S0-S	136S21	HONYONE
7	AUTO START	ILLUMINATE PUSH BUTTON - BLUE PBM25-12M-F-RU24-S0-S	136S4	HONYONE
8	BYPASS	ILLUMINATE PUSH BUTTON - RED PBM25-22M-F-RR24-S0-S	136S6	HONYONE
9	SPARE	ILLUMINATE PUSH BUTTON - RED PBM25-22M-F-RR24-S0-S	136S71	HONYONE
10	FLIPPER UP / DOWN	TOGGLE SWITCH XD5-PA22	136S1	SCHNEIDER
11	SPARE	ILLUMINATE PUSH BUTTON - BLUE PBM25-12M-F-RU24-S0-S	136S61	HONYONE
12	SPARE	ILLUMINATE PUSH BUTTON - ORANGE PBM25-22M-F-RO24-S0-S	136S7	HONYONE
13	PUSH TO TALK	ILLUMINATE PUSH BUTTON - WHITE QN25-A1-F-22-Z	135S8	QIAN NIAN

NO.	DESCRIPTION & NAME PLATE	DEVICE SPEC.	DEVICE CODE	REMARKS
14	FAULT/RESET	ILLUMINATE PUSH BUTTON - RED PBM25-22M-F-RR24-S0-S	136S2	HONYONE
15	TWISTLOCK LOCK / UNLOCK	TOGGLE SWITCH XD5-PA22	136S3	SCHNEIDER
16	READY	PILOT LAMP SM16-LED BLUE 24VDC	145H5	HONYONE
17	ROPE SLACK	PILOT LAMP SM16-LED WHITE 24VDC	145H3	HONYONE
18	FLIPPER UP	PILOT LAMP SM16-LED GREEN 24VDC	145H8	HONYONE
19	LANDED	PILOT LAMP SM16-LED ORANGE 24VDC	145H31	HONYONE
20	LOCKED	PILOT LAMP SM16-LED RED 24VDC	145H4	HONYONE
21	UNLOCKED	PILOT LAMP SM16-LED GREEN 24VDC	145H41	HONYONE
22	SPARE	PILOT LAMP SM16-LED BLUE 24VDC	145H71	HONYONE
23	MM HOME	PILOT LAMP SM16-LED GREEN 24VDC	145H51	HONYONE
24	CAMERA PTZ CONTROL JOYSTICK	SMON 6K VRHD(K)	141MS1	SEHWAN
25	ZOOM ENABLE (JOYSTICK BUTTON)	SMON 6K VRHD(K)	141MS1	SEHWAN
26				



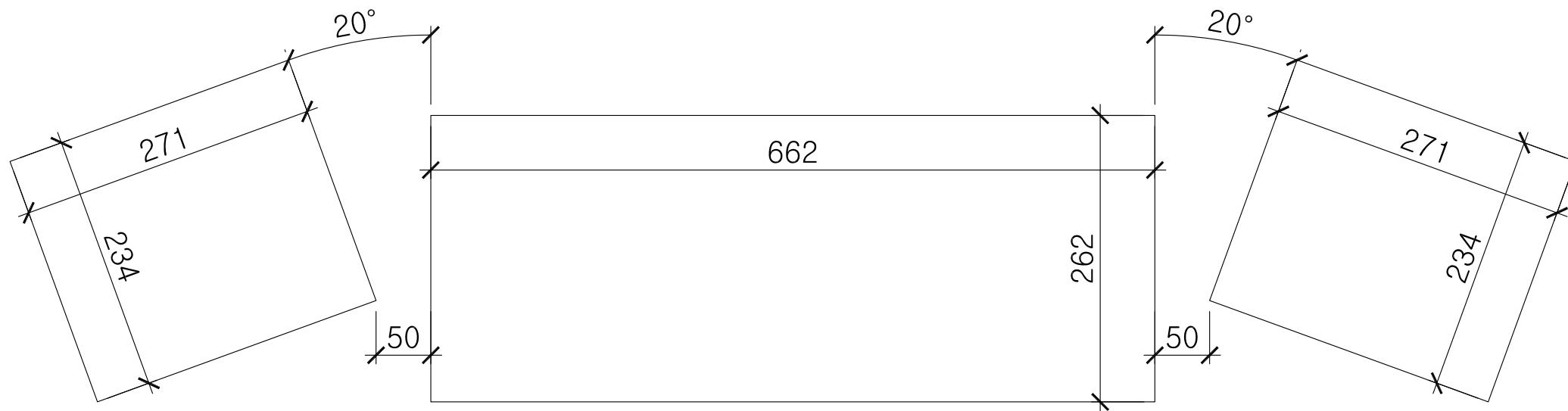


- * Note
 - All materials : ABS Resin
 - The extension LAN port installation location can be selected by the user, (Left, Right and Rear side)
 - with accessories : Screw installation fastener 4 pcs
 - Touch Display Unit type : HMIDT542 + HMI(G3U (Schneider))
 - Q'ty : 8 sets



Fixing method for HMI board

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LEFT HMI BOARDCENTER SWITCH BOARDRIGHT HMI BOARD

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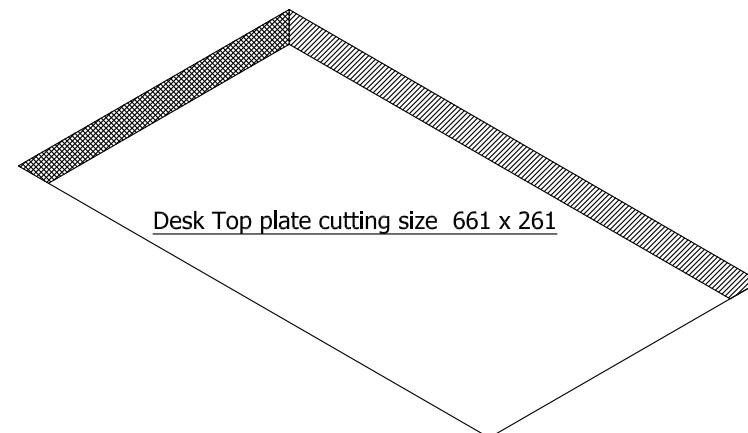
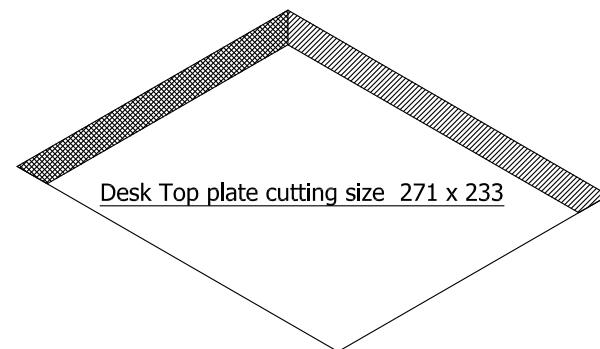
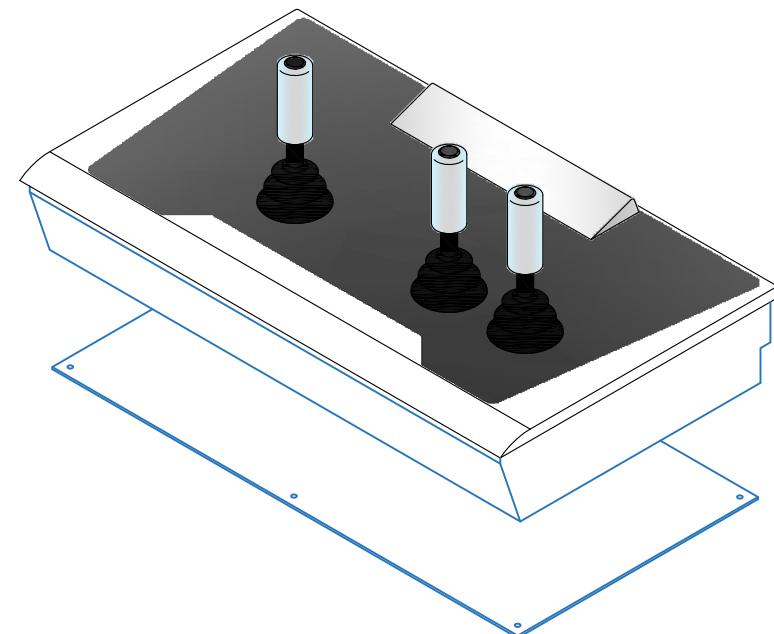
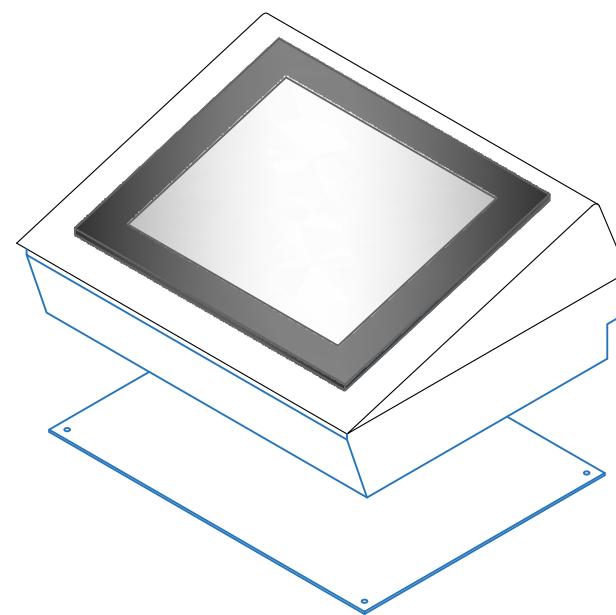
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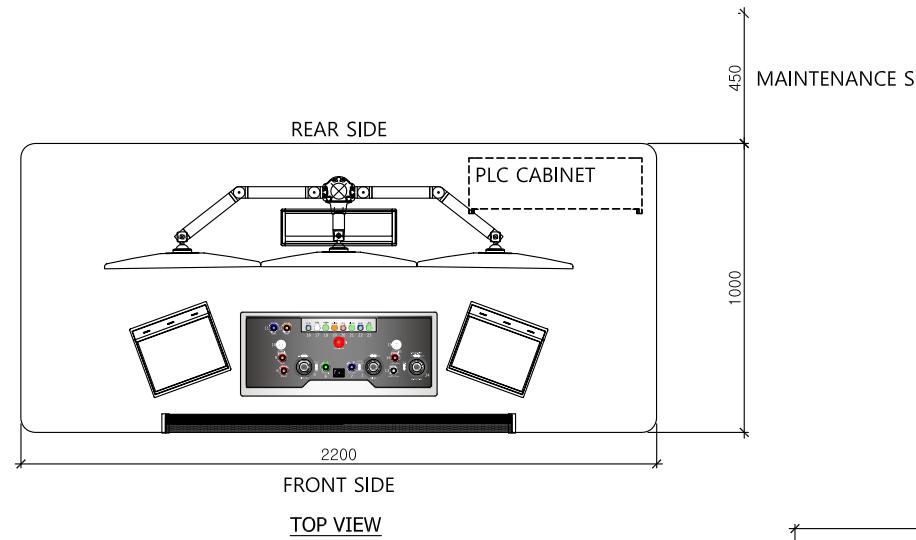
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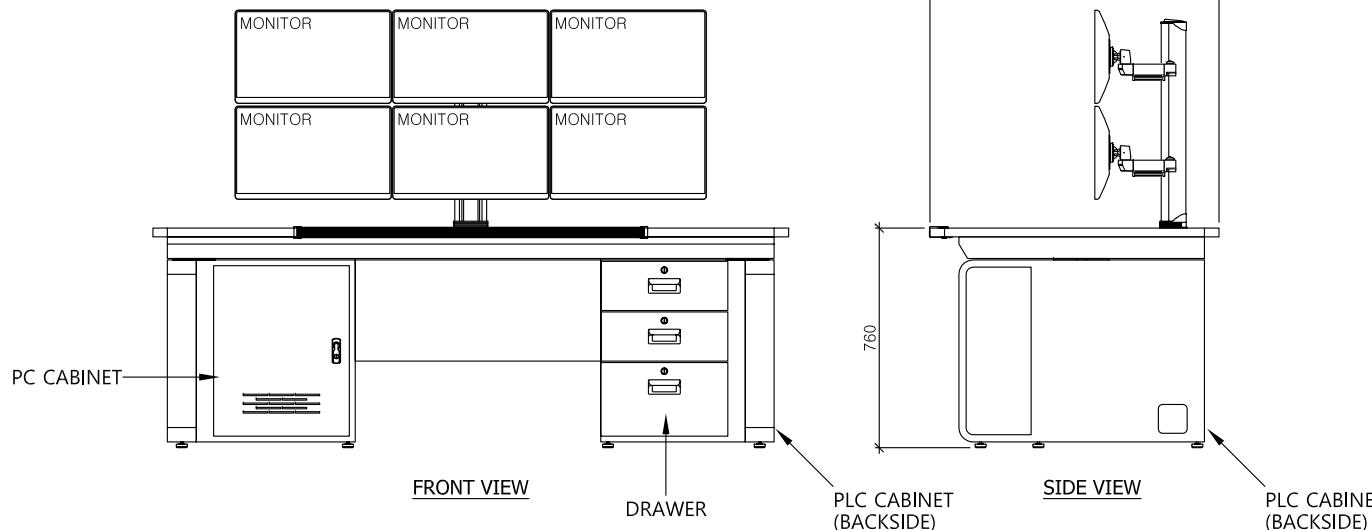
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NOTE

1. TYPE : MOTION TYPE CONSOLE DESK
2. Q'TY : 6 x FOR ARMG DESK



(실제 제작 시 디자인은 다소 변경 될 수 있습니다.)

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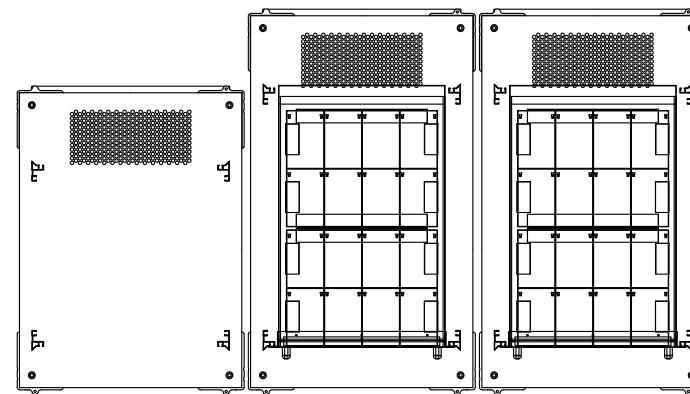
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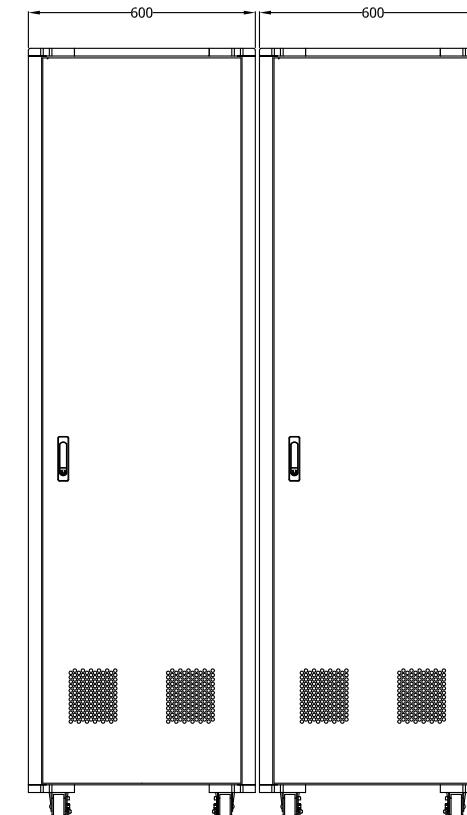
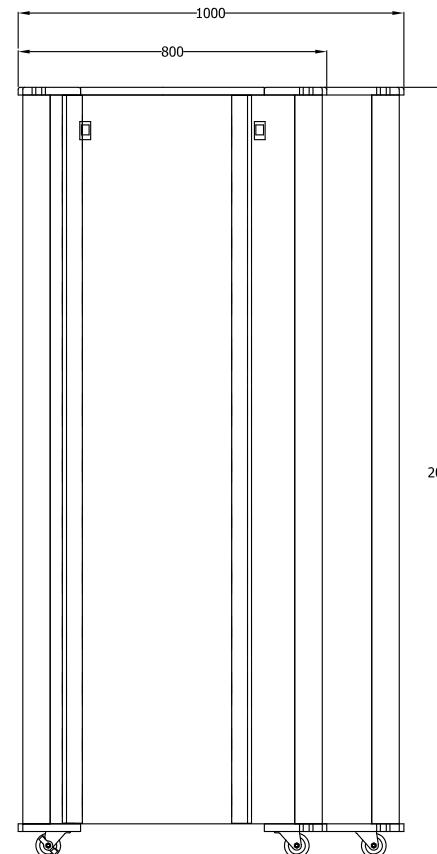
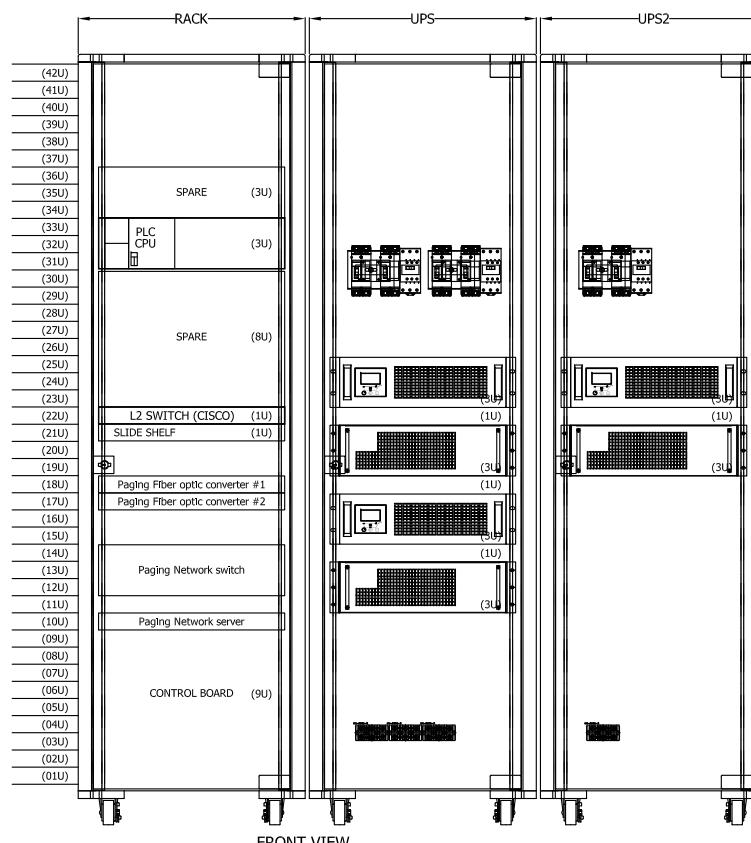
9 / K

NOTE

1. 품목명 : TMT DW-H2000 허브랙 (RACK PANEL)
2. 고정타입 : 케이지너트 타입
3. 재질 : Aluminum extrusion / Sheet steel (냉간압연강판)
4. 색상 : Silver (HH915-913S:현대페인트)
Black (EN302K:대한페인트)
5Y7-1
분체정전도장
5. 수량 : 1 Sets

1. 품목명 : EURO X-42106 (UPS PANEL)
2. 색상 : MATTE BLACK
3. 수량 : 1 Sets

TOP VIEW



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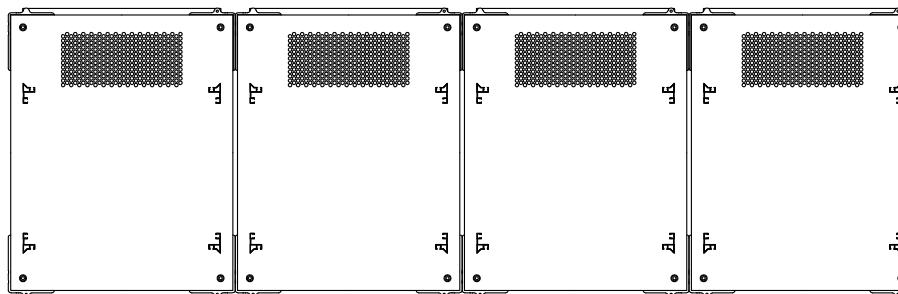
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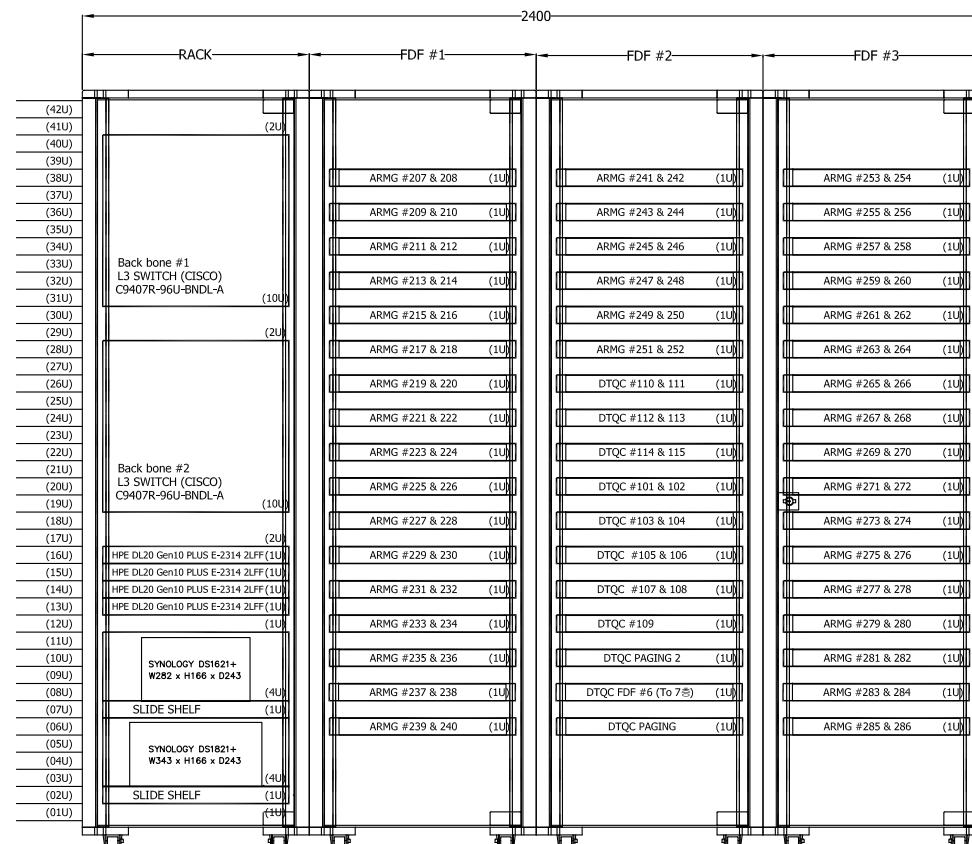
8 / J

9 / K

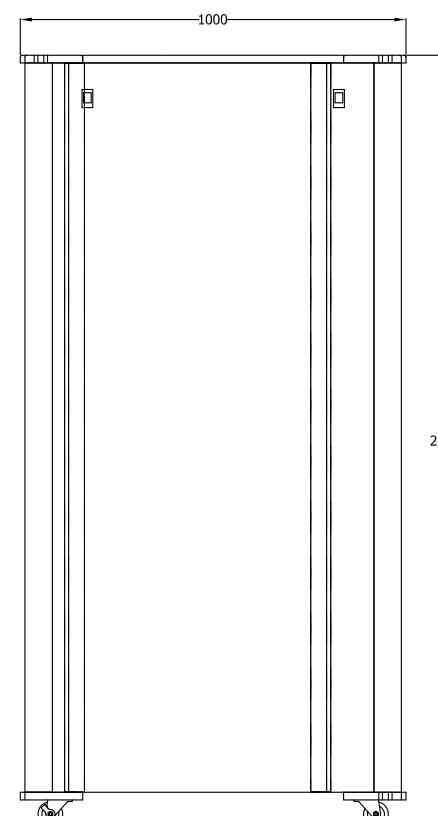
NOTE

1. 품목명 : EURO X-42106
2. 색상 : MATTE BLACK

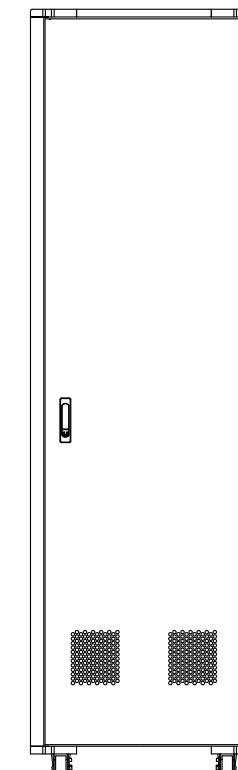
TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

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2 / C

3 / D

4 / E

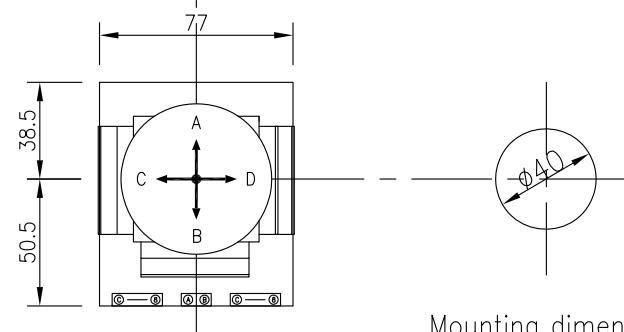
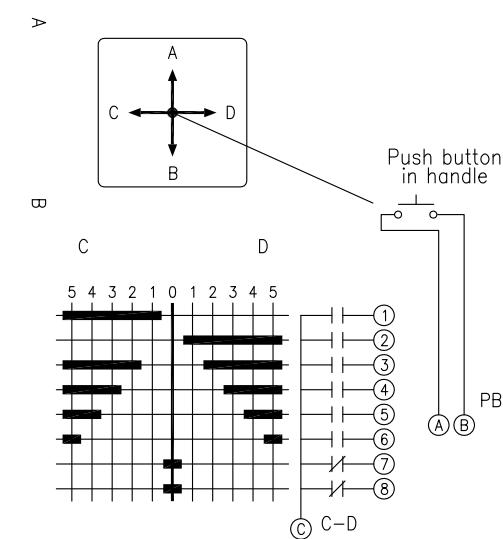
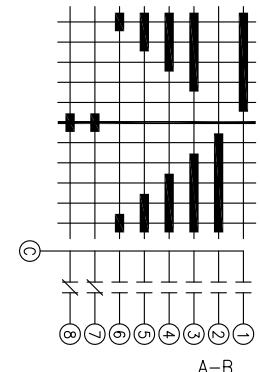
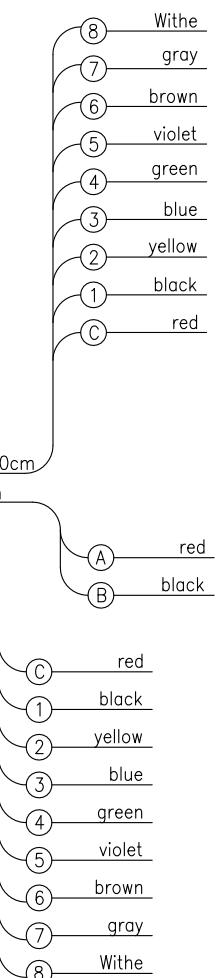
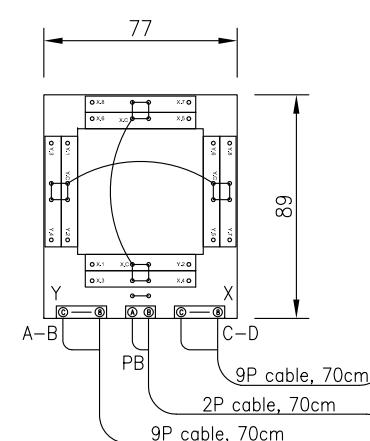
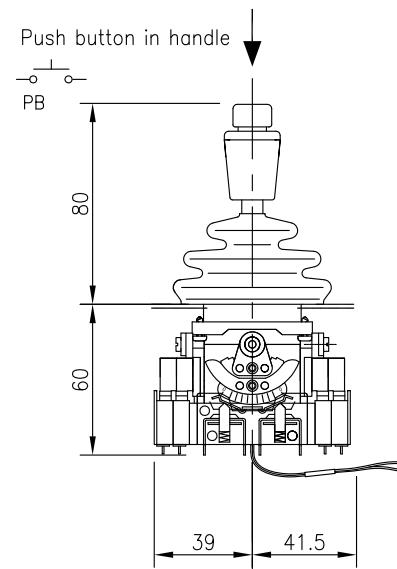
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Mounting dimension

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