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<div><div><div>ELECTRIC CIRCUIT DIAGRAM</div></div></div>																																													
<div><div>PROJECT NAME 가압Cure</div><div>CUSTOMER 삼성 전자</div><div>EQUIPMENT COMPANY KCinnovation</div><div>DELIVER DAY 2024-04-11</div><div>DESIGN START DAY 2024-04-11</div><div>DESIGNER NAME J.Y.O</div></div>																																													
<table><tr><td>Designed</td><td>Checked</td><td>Approved</td><td>REVISION DATE</td><td>PJT Title.</td><td>가압Cure</td><td>DWG NAME.</td><td>MAIN COVER</td><td rowspan="3">SHEET 1 Page TOTAL 55 Page</td><td rowspan="3">KC INNOVATION</td></tr><tr><td>J.Y.O</td><td>확인자</td><td>승인자</td><td></td><td>PJT NO.</td><td>R-IR-3006-0057</td><td>DRAWING NUMBER</td><td>R-IR-3006-0057-MC01-00</td></tr><tr><td>2024-04-11</td><td>2024-04-11</td><td>2024-04-11</td><td></td><td>CUSTOMER.</td><td>삼성 전자</td><td></td><td></td></tr><tr><td colspan="4">경기 화성 동탄첨단 산업 1로</td><td colspan="6"></td></tr></table>										Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	MAIN COVER	SHEET 1 Page TOTAL 55 Page	KC INNOVATION	J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-MC01-00	2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자			경기 화성 동탄첨단 산업 1로									
Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	MAIN COVER	SHEET 1 Page TOTAL 55 Page	KC INNOVATION																																				
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Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	TABLE OF CONTENTS	SHEET 2 Page	KC INNOVATION
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-TA02-00	TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									

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구조 식별자 개요

전체 지정	라벨 부착	구조 설명	전체 지정	라벨 부착	구조 설명
=MC	상위 레벨 기능	도면 표지	&13	문서 유형	INTERLOCK DRAWING
=TA	상위 레벨 기능	도면 목록	&14	문서 유형	TEMP DIAGREAM
=SY	상위 레벨 기능	설비 사양	&15	문서 유형	TEMP DRAWING
=SB	상위 레벨 기능	심볼 및 약어 표시	&16	문서 유형	EFEM INTERFACE
=PT	상위 레벨 기능	부품 목록	&17	문서 유형	NETWORK DIAGREAM
=AC	상위 레벨 기능	케이블 정격 용량표	&18	문서 유형	PC COMPOSITION
=PI	상위 레벨 기능	동력 계통도	&19	문서 유형	PLC COMPOSITION
=PD	상위 레벨 기능	동력 회로	&20	문서 유형	DIO DRAWING
=MA	상위 레벨 기능	주 조작 회로	&21	문서 유형	SAFETY DIAGREAM
=CI	상위 레벨 기능	조작 회로	&22	문서 유형	SAFETY DRAWING
=NE	상위 레벨 기능	네트워크 회로	&23	문서 유형	POWER BOX
=SF	상위 레벨 기능	안전 회로	&24	문서 유형	CHAMBER
=LD	상위 레벨 기능	부품 배치도	&25	문서 유형	EFEM
=EB	상위 레벨 기능	접지 회로	&26	문서 유형	EARTH DRAWING
+A	부착 영역	POWER SYSTEM MAP			
+B	부착 영역	CIRCUIT DIAGRAM			
+C	부착 영역	MAIN CONTROL			
+D	부착 영역	TEMP CONTROL			
+E	부착 영역	EFEM MECHA CONTROL			
+F	부착 영역	SAFETY CONTROL			
+G	부착 영역	ELECTRICAL PART LAYOUT DRAWING			
&1	문서 유형	MAIN COVER			
&2	문서 유형	TABLE OF CONTENTS			
&3	문서 유형	SYSTEM SPEC			
&4	문서 유형	SIMBOL			
&5	문서 유형	PART LIST			
&6	문서 유형	ALLOWABLE CURRENT			
&7	문서 유형	GPS DIAGREAM			
&8	문서 유형	UPS DIAGREAM			
&9	문서 유형	GPS DRAWING			
&10	문서 유형	UPS DRAWING			
&11	문서 유형	SWITCH CONTROL			
&12	문서 유형	MC CONTROL			

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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-TA03-00	TOTAL 55 Page	
경기 화성 동탄첨단 산업 1로				CUSTOMER.	삼성 전자				

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1. Cable instructions

NO.	항목	내용						
1.	배선 색상	회로	전위(출력)	케이블 색상	발코 튜브 색상	문자 색상	넘버링 튜브 색상	비고
		교류 3상	R(U)	Black	BROWN	흑색	백색 튜브	
			S(V)	Black	BLACK			
			T(W)	Black	GRAY			
		교류 단상	L	Black	Red			
			N	Black	Blue			
		직류 회로	P24	Blue	—			
			N24	Blue	—			
		직류 회로	PLC INPUT	Blue	—			
			PLC OUTPUT	Blue	—			
		상시 전원	1R,1S,1T 구간	Orange	—			
		Transfromer 2차	L,N	Red	Red			
		접지	PE,G	Yellow/Green	Green			
통신	DA,DB,DG,SLD	Blue	—	Shielded Twisted				




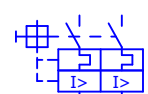
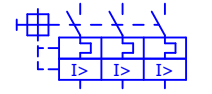
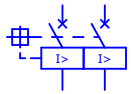
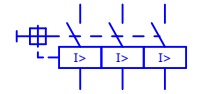
Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	SYSTEM SPEC	SHEET 4 Page	
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-SY04-00	TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									








2. Switch instructions

NO.	항목	내용				
1.	스위치 색상	회로	설비 조건	조작 종류	색상	비고
		일반 스위치	기동	Start Switch	흰색/녹색	
			정지	Stop Switch	검정색	
			복귀	Reset Switch	청색	
		비상 스위치	비상시	Emergency Off Switch	적색	가이드:황색
			비상시	Emergency Off Switch	적색	가이드:흰색

Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	SYSTEM SPEC	<div> <div>SHEET 5 Page</div> <div>TOTAL 55 Page</div> </div>	
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057				
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자	DRAWING NUMBER	R-IR-3006-0057-SY05-00		

▷ SYMBOL 개요

심볼 그래픽	식별자	심볼 설명
	CP 1POLE	CIRCUIT PROTECTOR 설비용 회로 보호기
	CP 2POLE	CIRCUIT PROTECTOR 설비용 회로 보호기
	CP 3POLE	CIRCUIT PROTECTOR 설비용 회로 보호기
	ELCB 2POLE	EARTH LEAKAGE CIRCUIT BREAKERS 누전 차단기
	ELCB 3POLE	EARTH LEAKAGE CIRCUIT BREAKERS 누전 차단기
	MCCB 2POLE	MOLDED CASE CIRCUIT BREAKERS 배선용 차단기
	MCCB 3POLE	MOLDED CASE CIRCUIT BREAKERS 배선용 차단기

심볼 그래픽	식별자	심볼 설명
	TR 단상	TRANSFORMER 교류전압 변환 회로 부품
	SMPS	POWER SUPPLY 교류전원을 직류전원으로 변환 부품
	LED	LIGHT EMITTING DIODE LED 형광 램프
	TC	THERMOCOUPLE 온도 센서
	BUZZER	경고 알림 부저
	CT	CURRENT TRANSFORMER 계기용 변류기
	LAMP	PILOT LAMP 표시등

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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-SB06-00	TOTAL 55 Page
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자			
경기 화성 동탄첨단 산업 1로								



1. SYMBOL 개요

심볼 그래픽	식별자	심볼 설명
	DC FAN	DC용 FAN 또는 환풍기
	AC FAN	AC용 FAN 또는 환풍기
	AC MOTOR 3POLE	AC용 삼상 모터
	DC MOTOR	DC용 단상 모터
	SPK	SPEAKER
	HT	단상 HEATER
	OCR	EOCR 전자식 과부하 계전기

심볼 그래픽	식별자	심볼 설명
	PBA	PUSH BUTTON SWITCH
	KS	KEY SWITCH
	EMO EMS	EMERGENCY SWITCH
	SYS	자성에 작동하는 근접 센서
	LIMIT	LIMIT 점점
	ROS	ROTATION SIREN
	MC	MAGNETIC SWITCH 전원 접촉기

Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	SIMBOL	SHEET 7 Page
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-SB07-00	TOTAL 55 Page
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자			
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





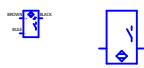






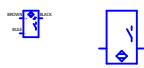






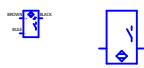








1. SYMBOL 개요




심볼 그래픽	식별자	심볼 설명	심볼 그래픽	식별자	심볼 설명
	NF	DC용 FAN 또는 환풍기		MULTTAP 4구	4구용 멀티탭
	RELAY COIL	DC용 FAN 또는 환풍기		MULTTAP 5구	5구용 멀티탭
	MC COIL	DC용 FAN 또는 환풍기		PRS	PRESSURE SENSOR 2접점
	NO	DC용 FAN 또는 환풍기		PRS	PRESSURE SENSOR 3접점
	NC	DC용 FAN 또는 환풍기		SEN	일반 SENSOR 2접점
	FG PE	DC용 FAN 또는 환풍기		SEN	일반 SENSOR 3접점
	MULTTAP 3구	3구용 멀티탭		SIREN	사이렌

Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	SIMBOL	SHEET 8 Page
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-SB08-00	TOTAL 55 Page
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자			
경기 화성 동탄첨단 산업 1로								




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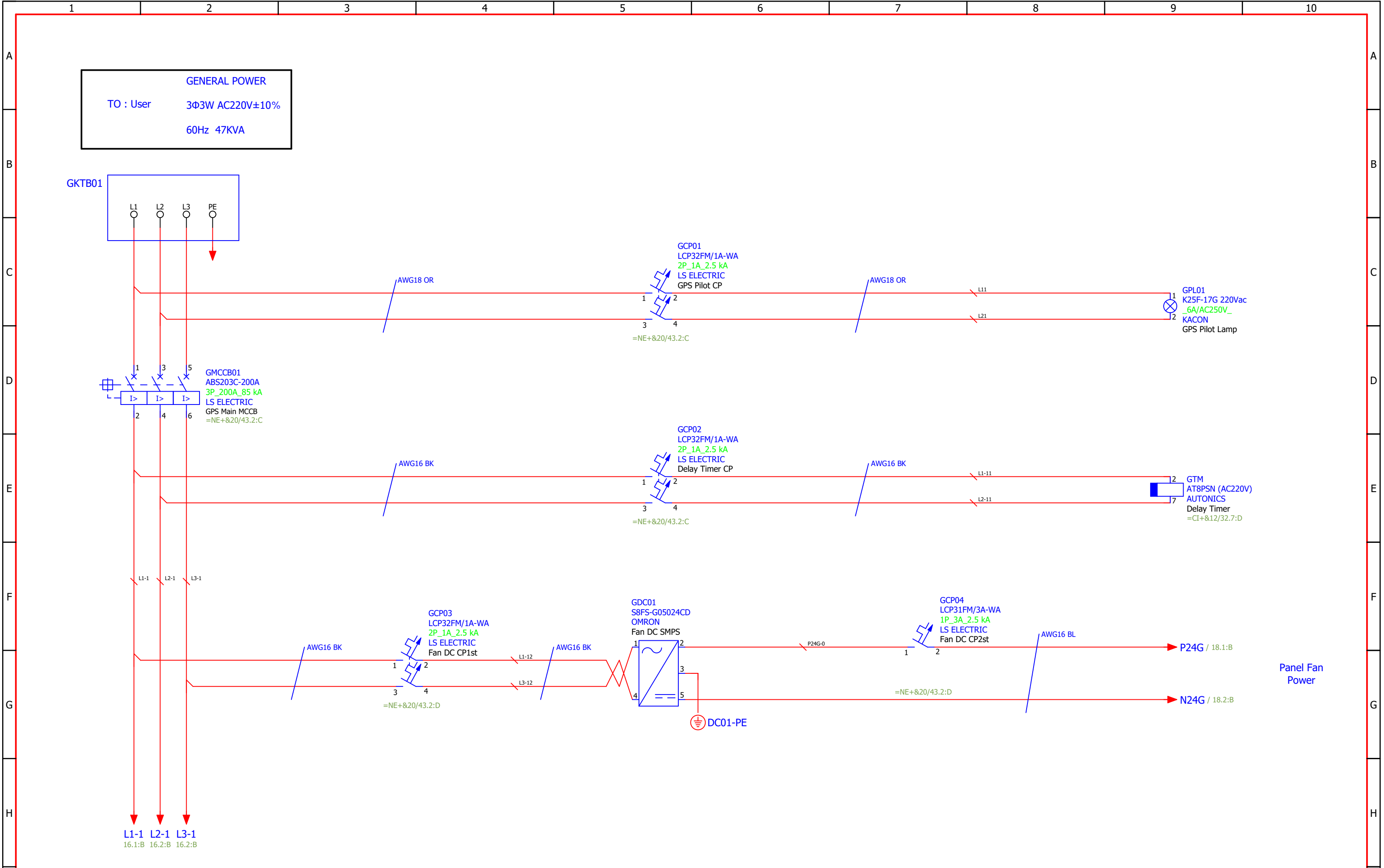
2. Cable allowable Current

NO.	항목	내용									
2.	Cable 허용 전류표	KIV Cable 허용 전류표	단면적(SQ)	30℃	60℃	AWG Cable 허용 전류표	단면적 (SQ)	AWG 번호	30℃(A)	60℃(A)	
			1.5	17	8		0.05	30	—	—	
			2.5	24	12		0.08	28	—	—	
			4	32	16		0.14	26	7.2	5	
			6	41	20		0.25	24	9.3	6	
			10	57	28		0.34	22	12	8	
			16	76	38		0.5	20	16	11	
			25	101	50		0.75	18	21	15	
			35	125	62		1.5	16	27	20	
			50	151	75		2.5	14	38	28	
			70	192	96		4	12	51	37	
			95	232	116		6	10	69	51	
			120	269	134		10	8	102	75	
			150	344	172		16	6	141	103	
			185	392	196		25	4	190	139	
			240	461	230		35	2	257	189	
			300	530	265		50	1	301	221	
							70	2/0	408	299	
							95	3/0	474	348	
							120	4/0	553	406	
							150	300MCM	692	508	
							185	350MCM	763	560	
							240	500MCM	968	710	

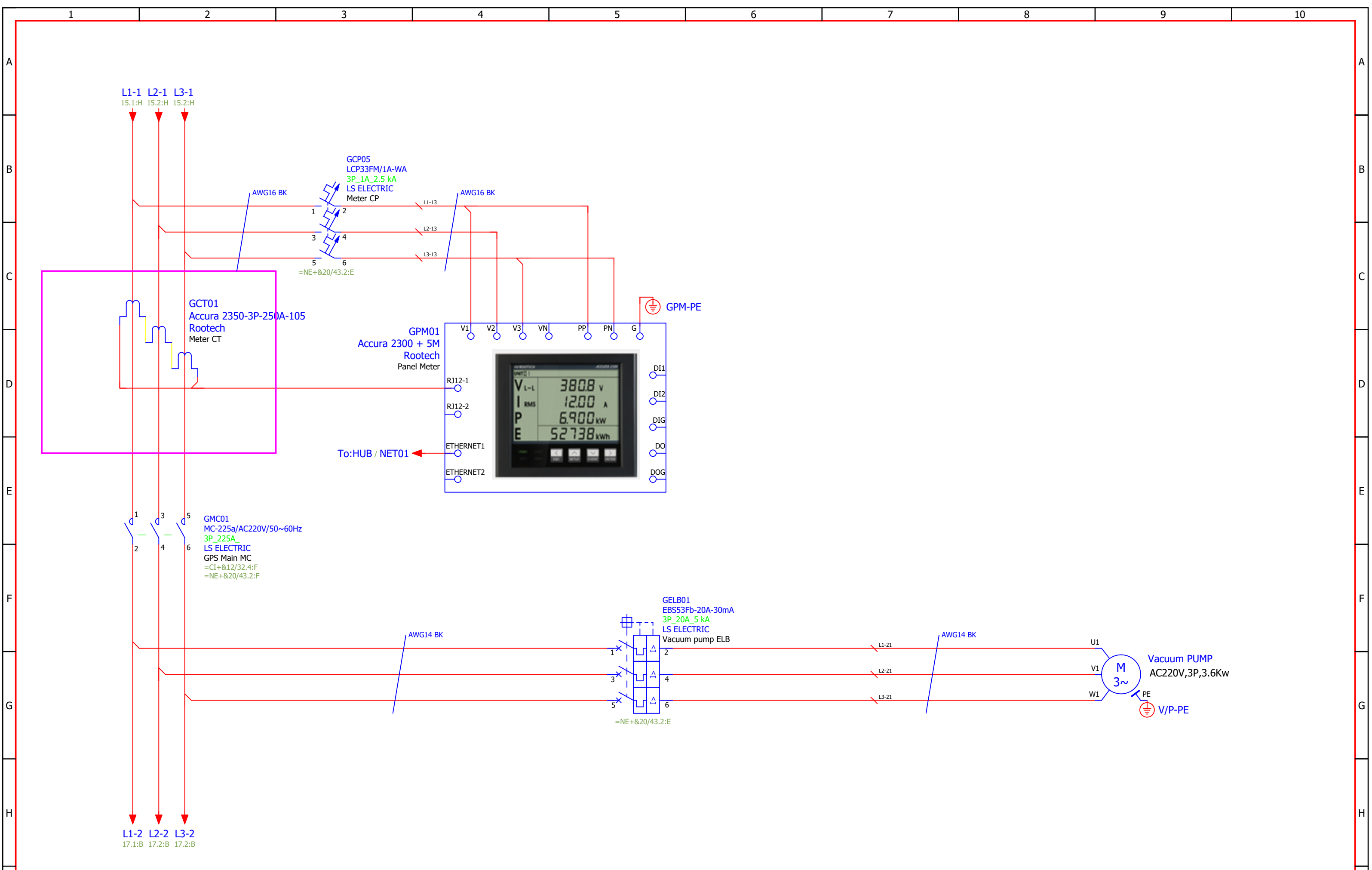
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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057				
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자	DRAWING NUMBER	R-IR-3006-0057-AC12-00		

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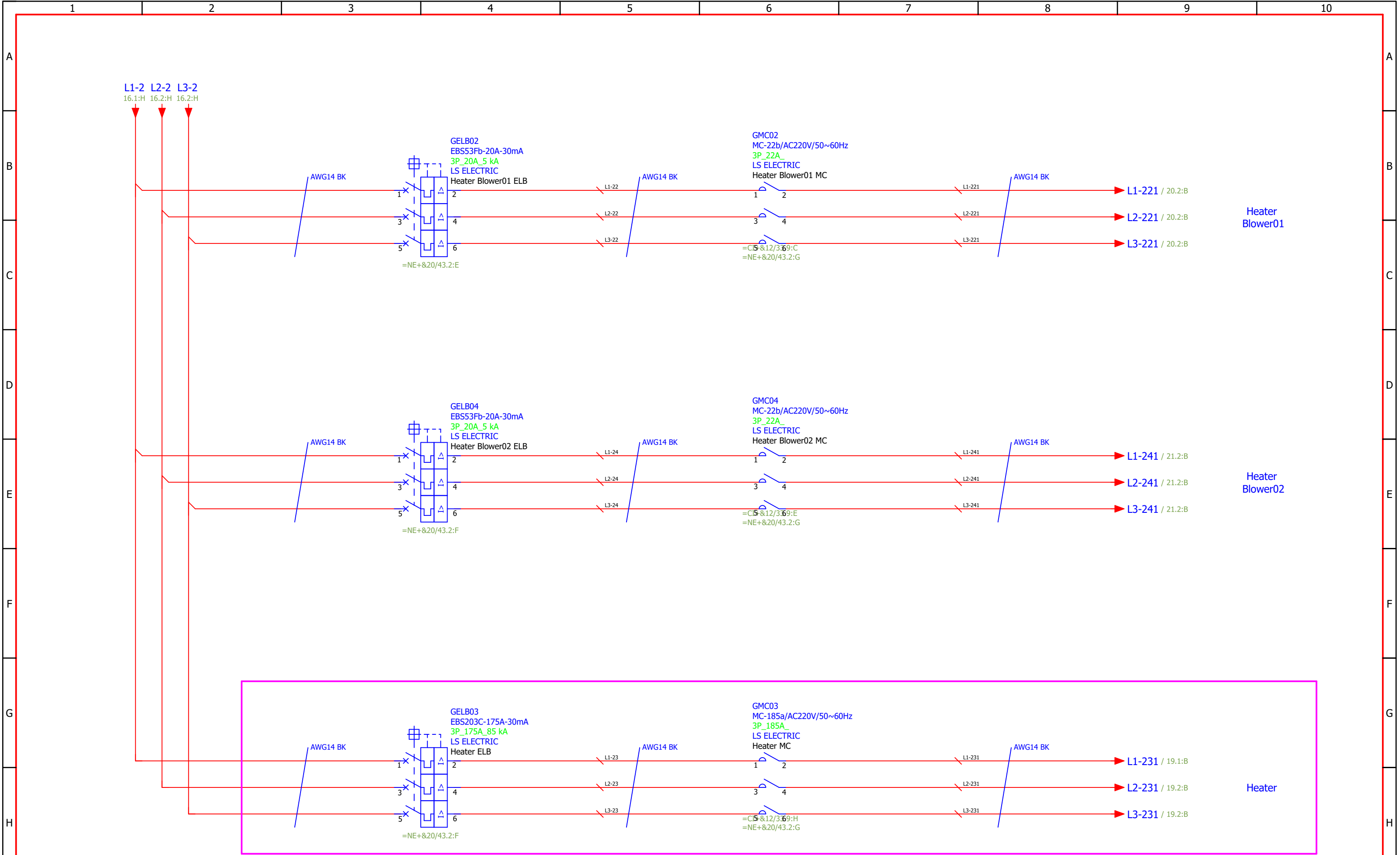
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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-PD15-00	TOTAL 55 Page	
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경기 화성 동탄첨단 산업 1로									



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경기 화성 동탄첨단 산업 1로									



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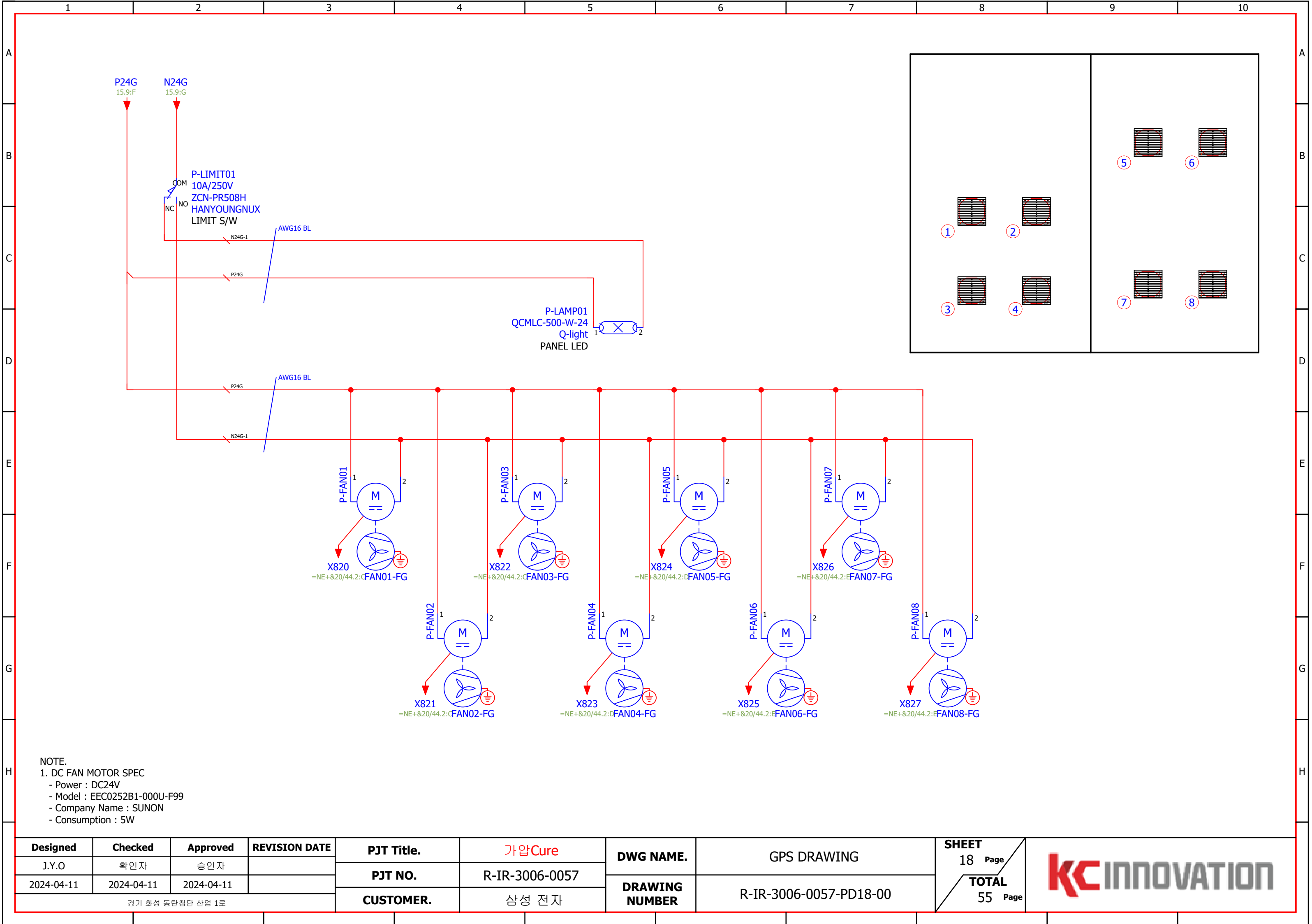
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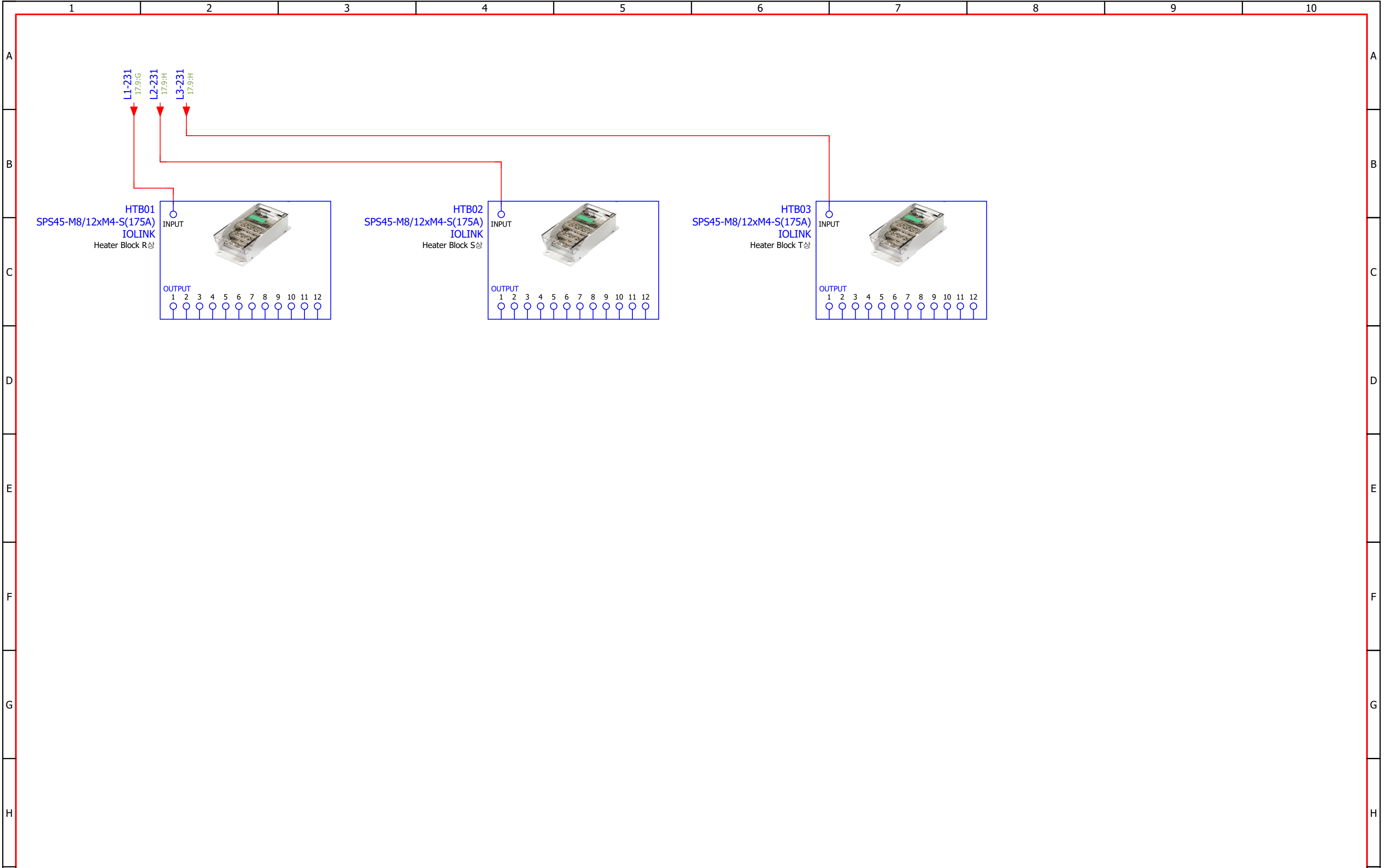
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PJT NO.	R-IR-3006-0057
CUSTOMER.	삼성 전자

DWG NAME.	GPS DRAWING
DRAWING NUMBER	R-IR-3006-0057-PD17-00

SHEET	17	Page	
TOTAL	55	Page	







Designed	Checked	Approved	REVISION DATE
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2024-04-11	2024-04-11	2024-04-11	

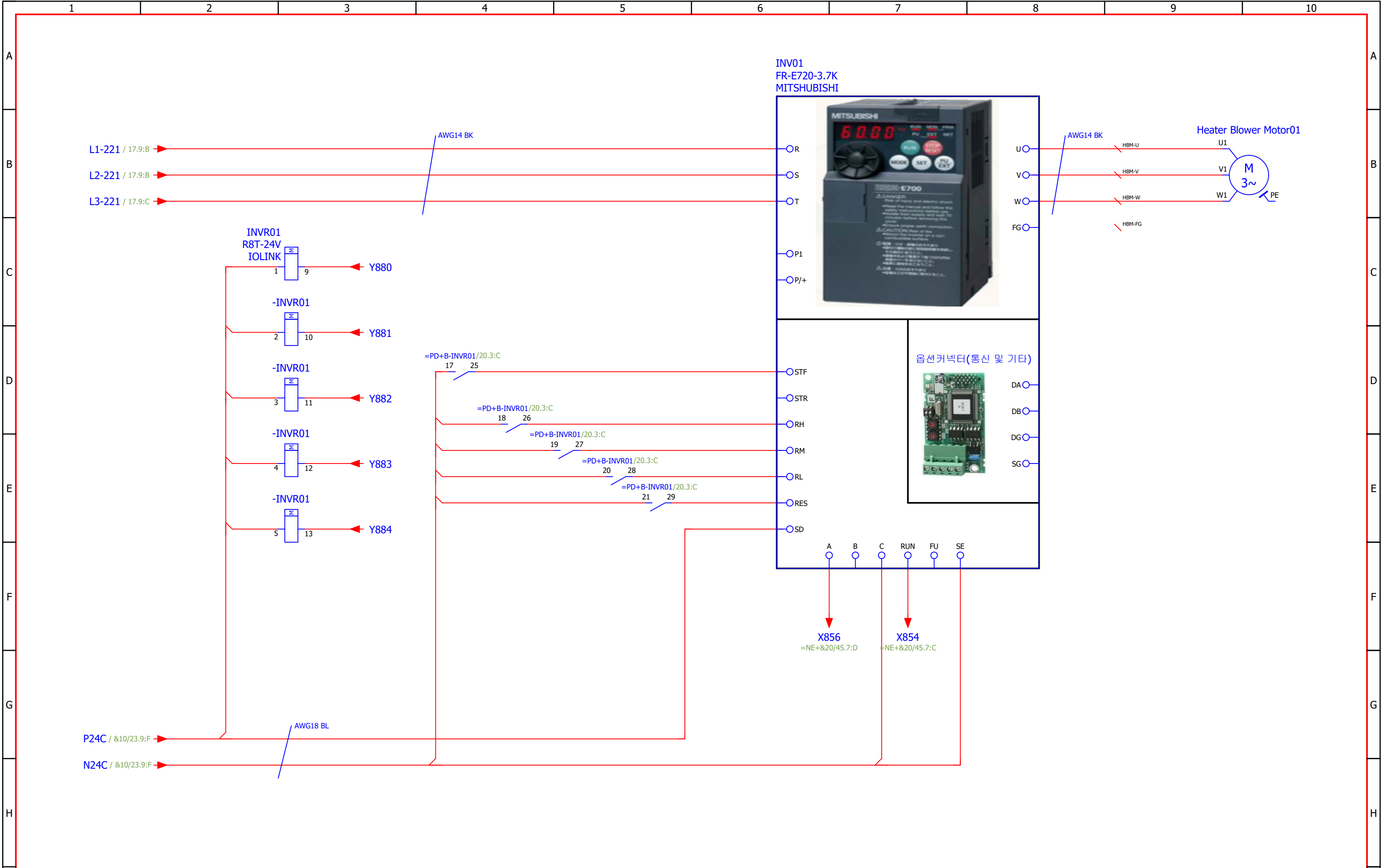
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PJT Title.	가압Cure
PJT NO.	R-IR-3006-0057
CUSTOMER.	삼성 전자

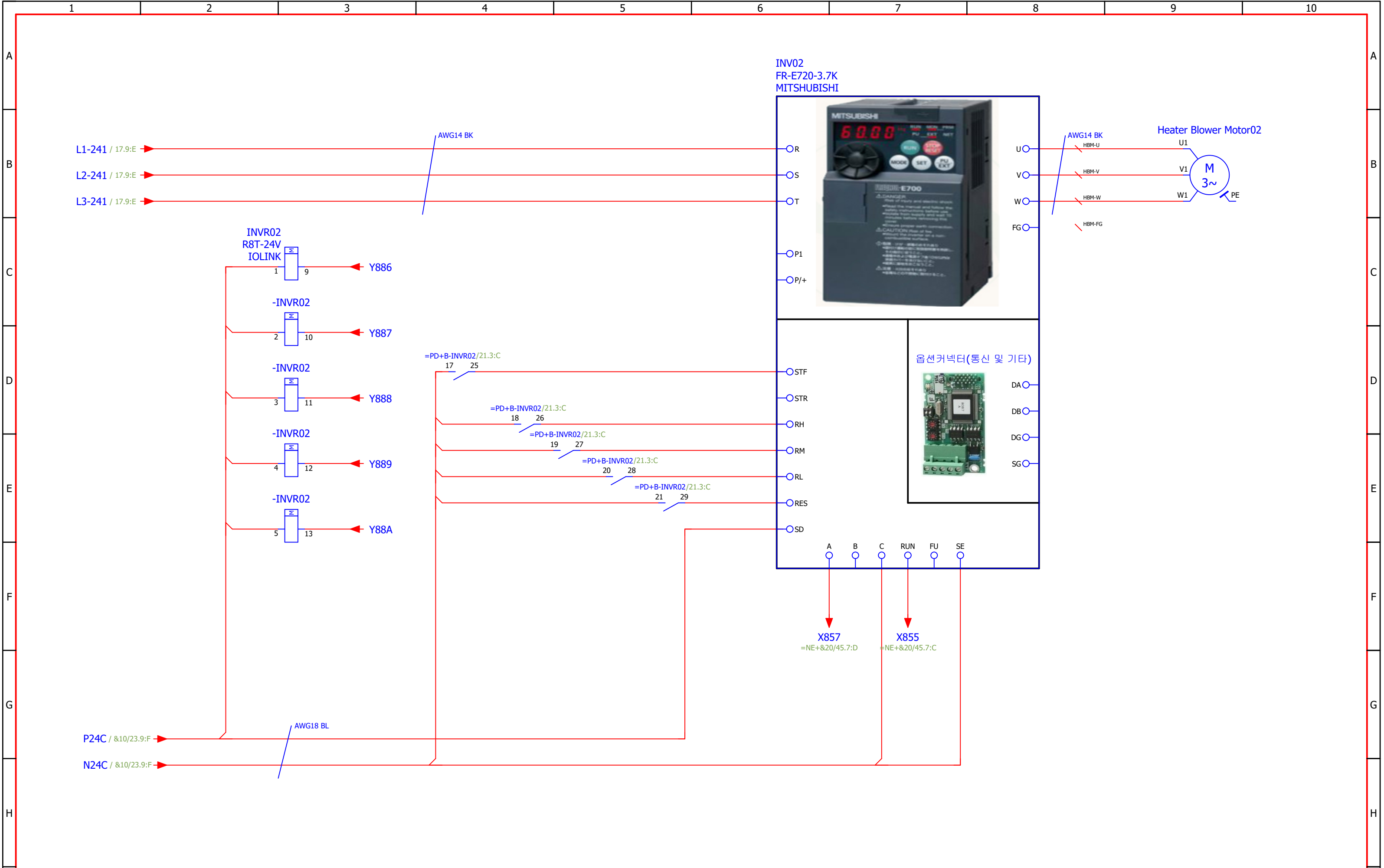
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SHEET	19 Page
TOTAL	55 Page

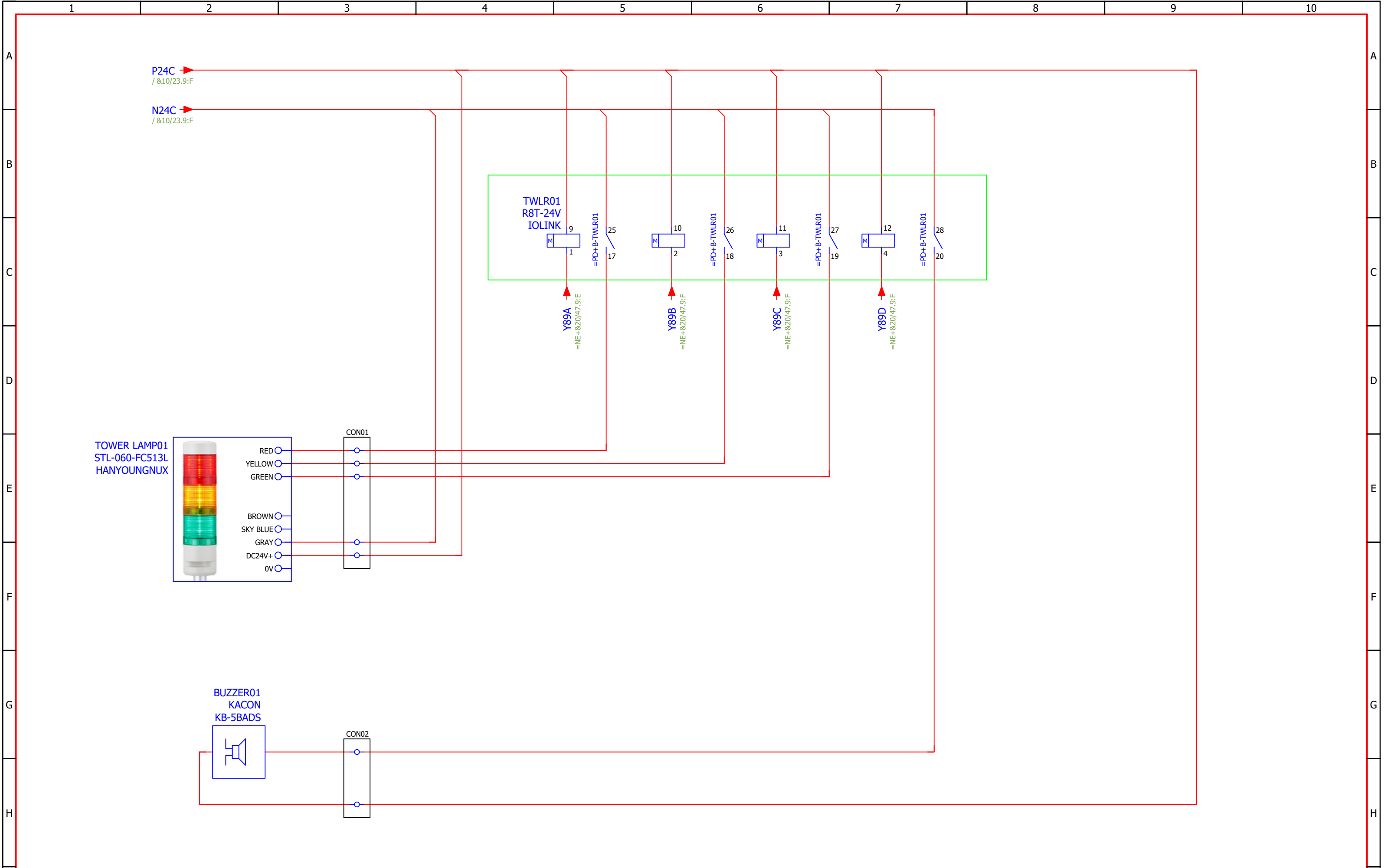




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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER		TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자		R-IR-3006-0057-PD20-00		
경기 화성 동탄첨단 산업 1로									



Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	GPS DRAWING	SHEET
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-PD21-00	21 Page
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자			TOTAL 55 Page
경기 화성 동탄첨단 산업 1로								KC INNOVATION



Designed	Checked	Approved	REVISION DATE
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2024-04-11	2024-04-11	2024-04-11	

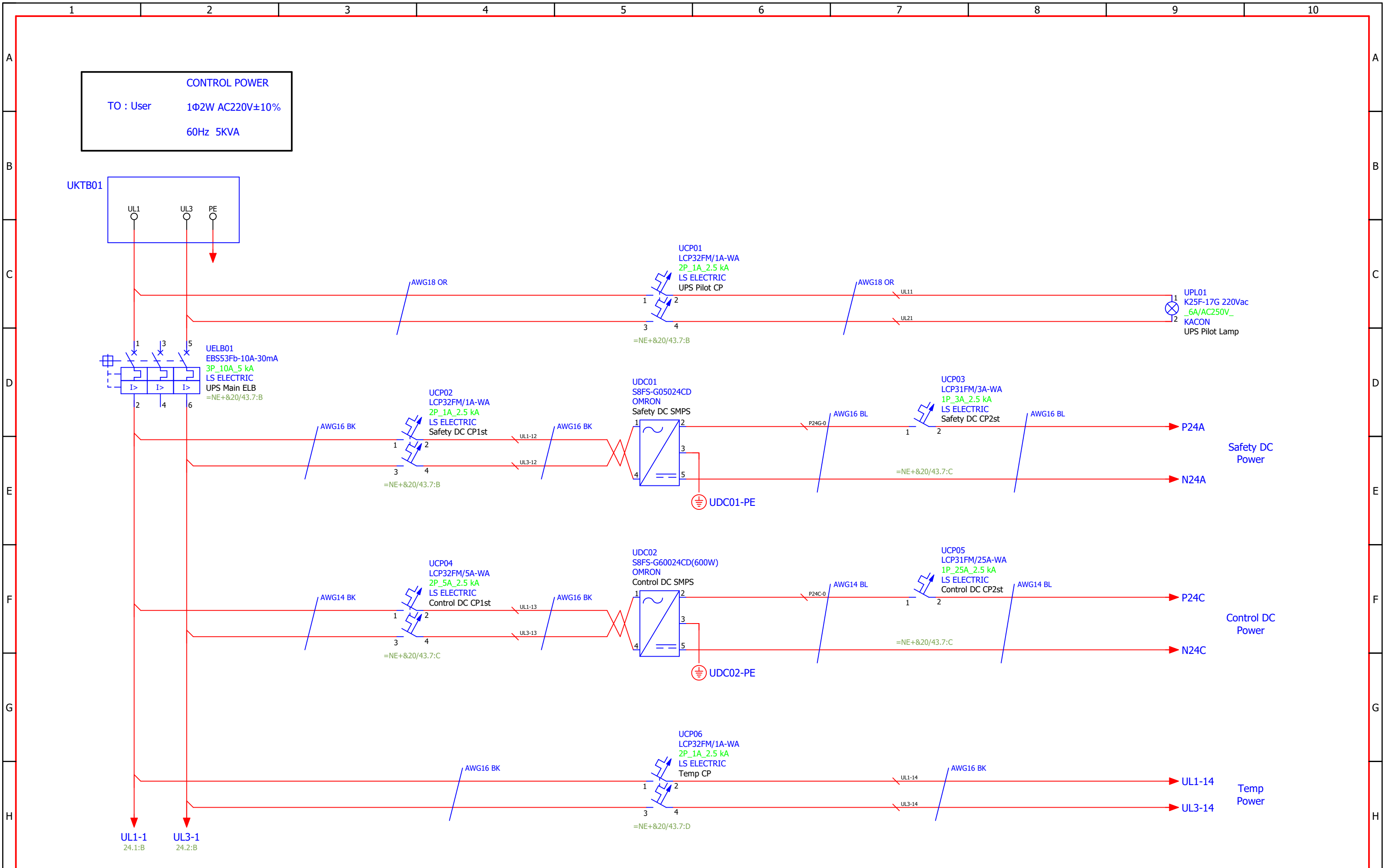
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PJT Title.	가압Cure
PJT NO.	R-IR-3006-0057
CUSTOMER.	삼성 전자

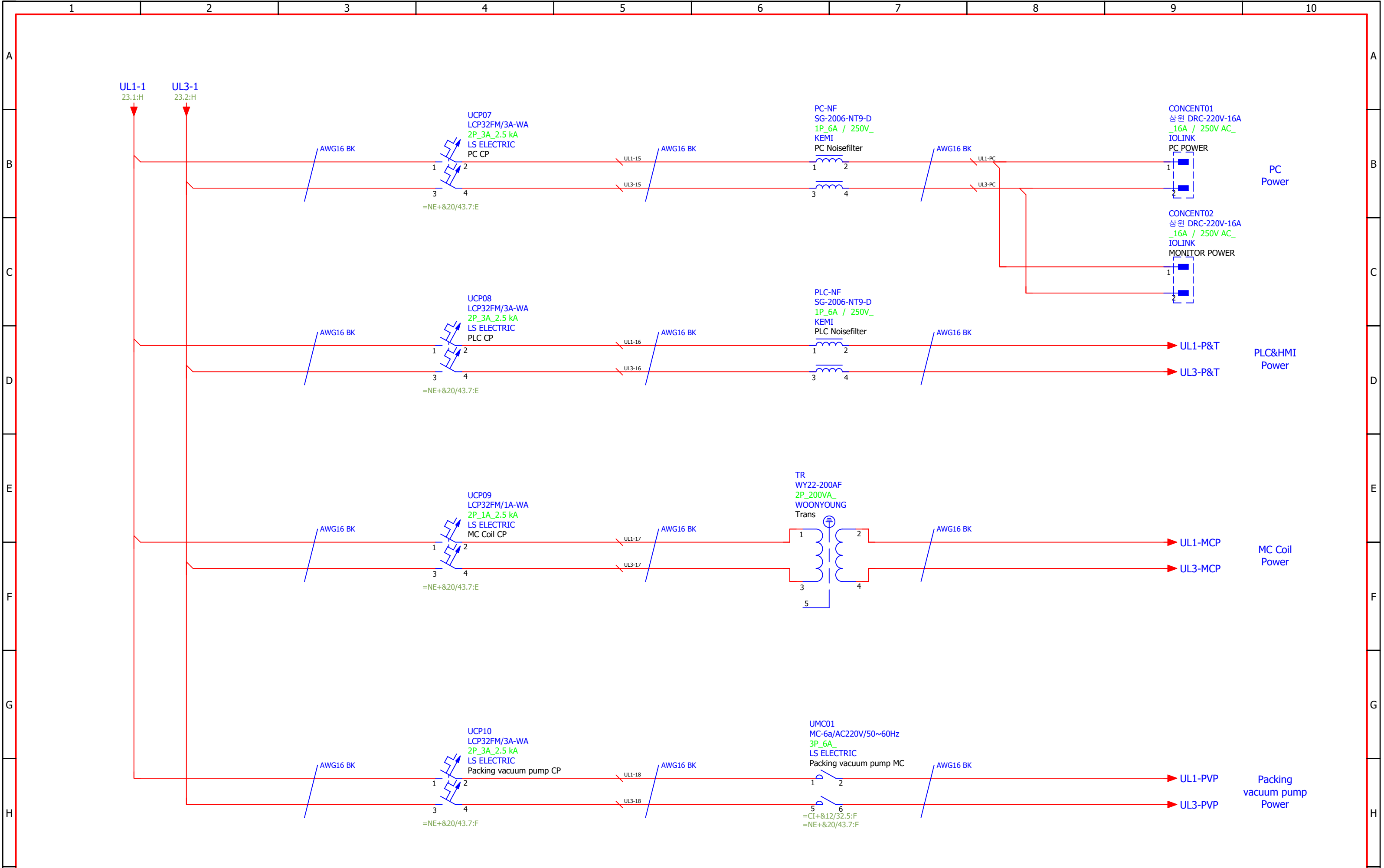
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SHEET	22	Page
TOTAL	55	Page

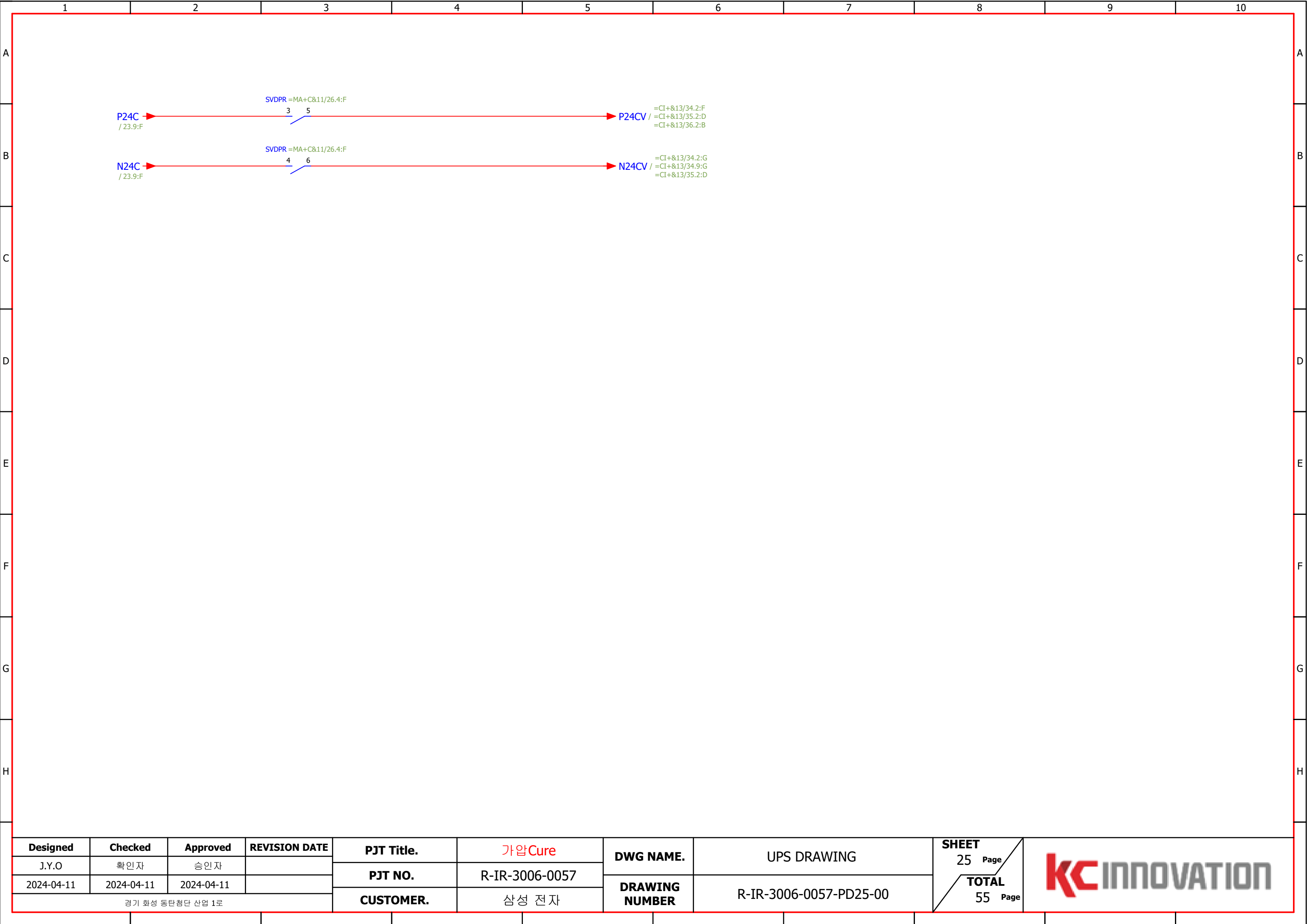


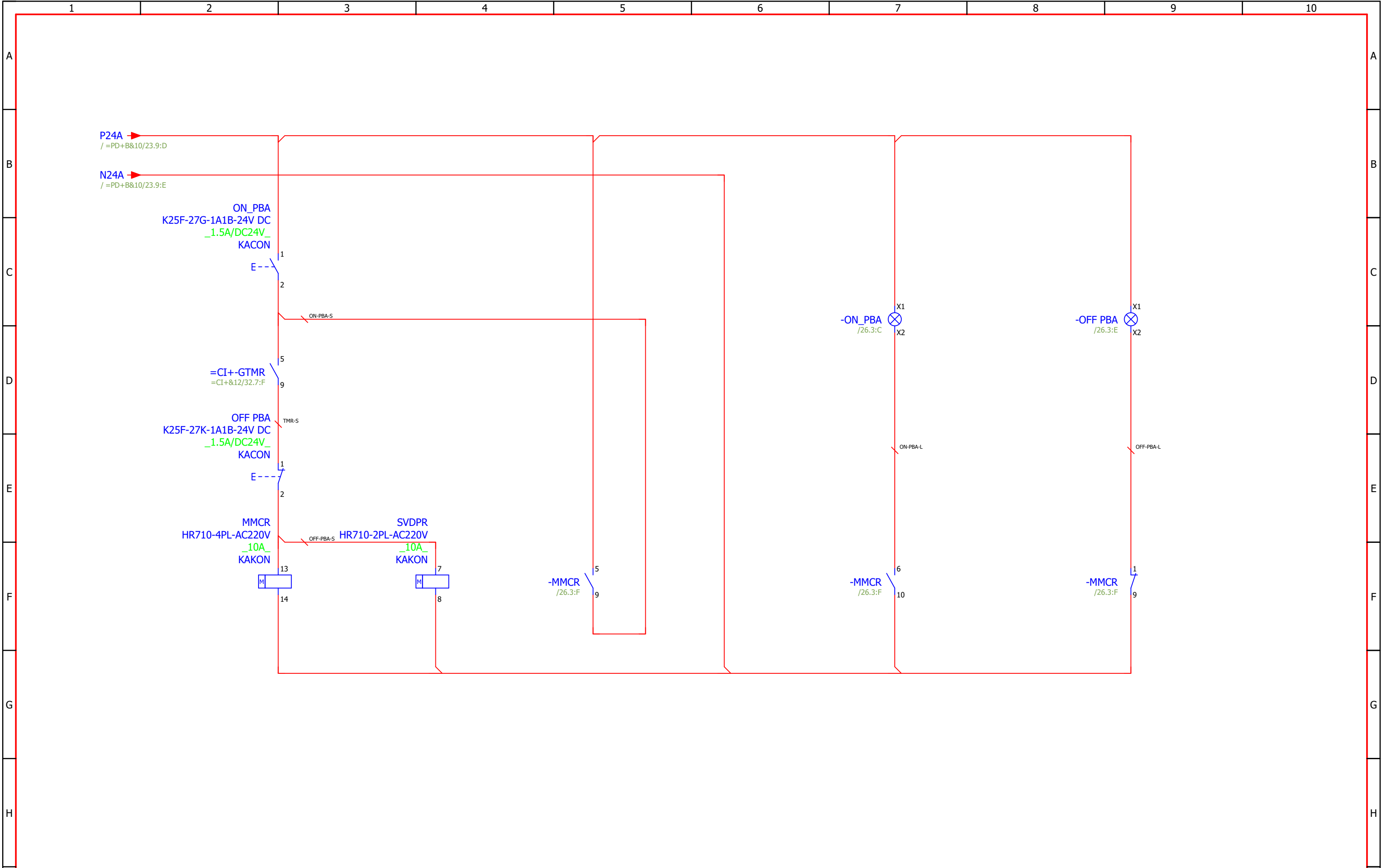


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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-PD23-00	TOTAL 55 Page	
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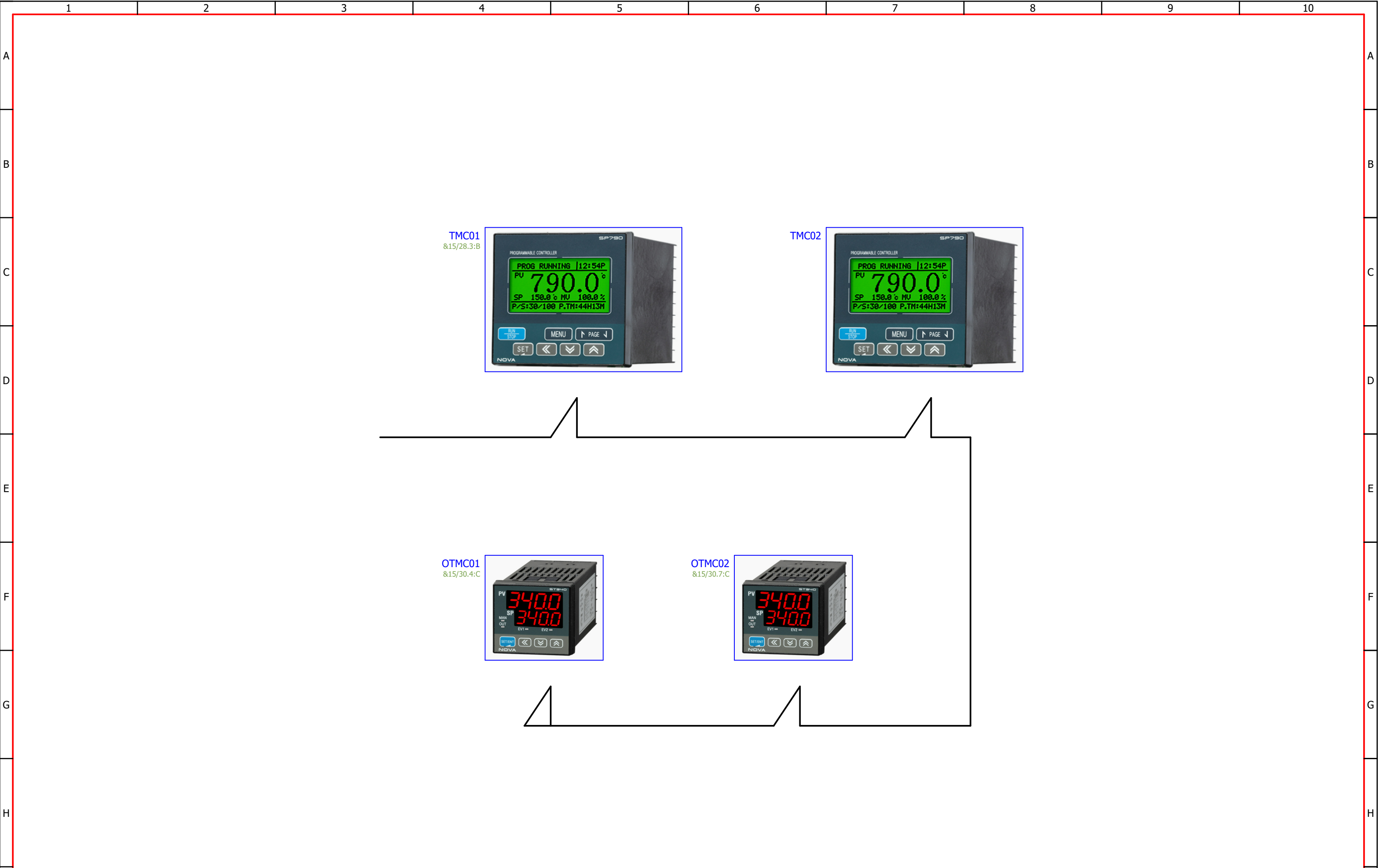


Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	UPS DRAWING	SHEET 24 Page TOTAL 55 Page	KC INNOVATION
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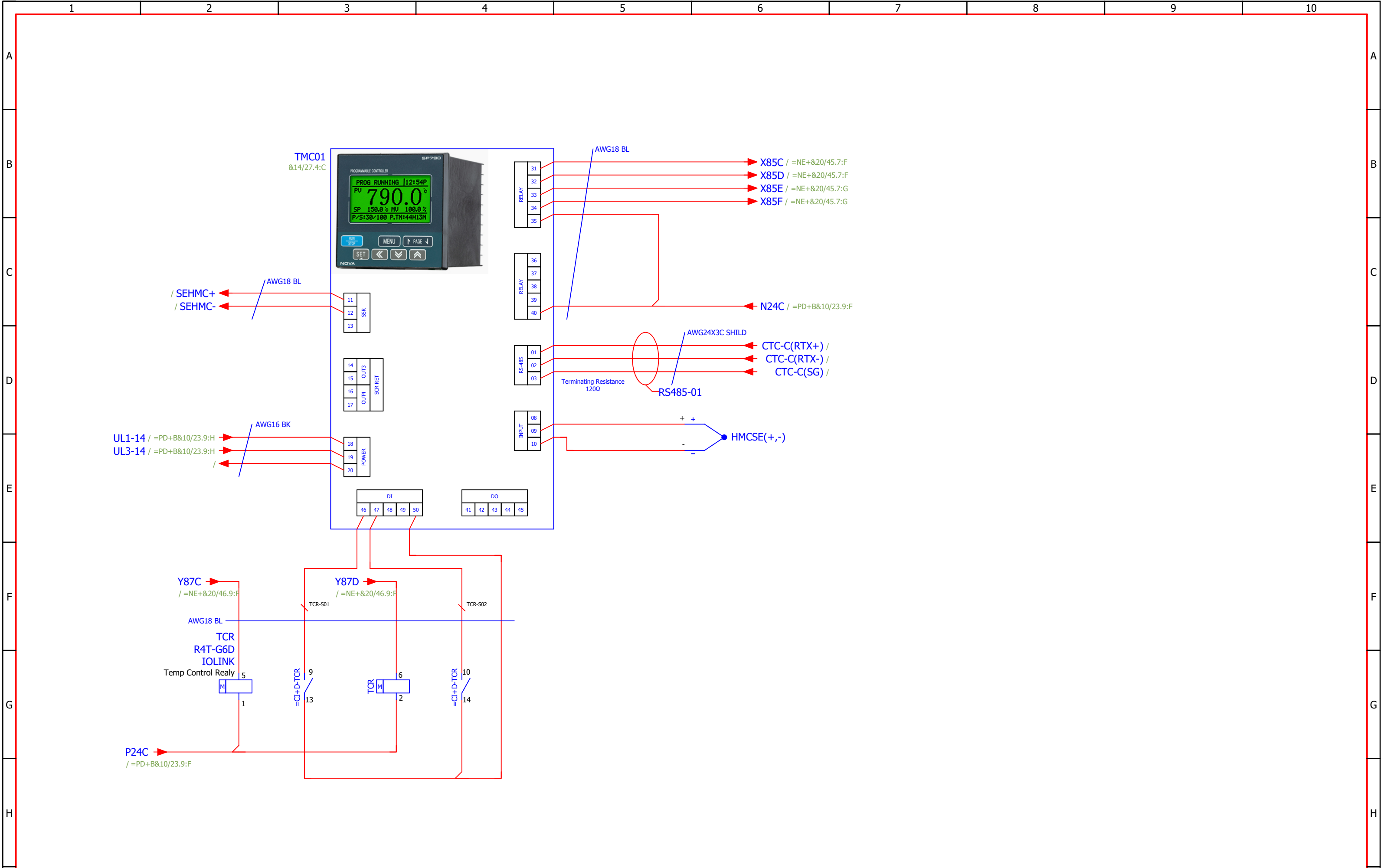





Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	SWITCH CONTROL	SHEET 26 Page TOTAL 55 Page	KC INNOVATION
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-MA26-00		
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
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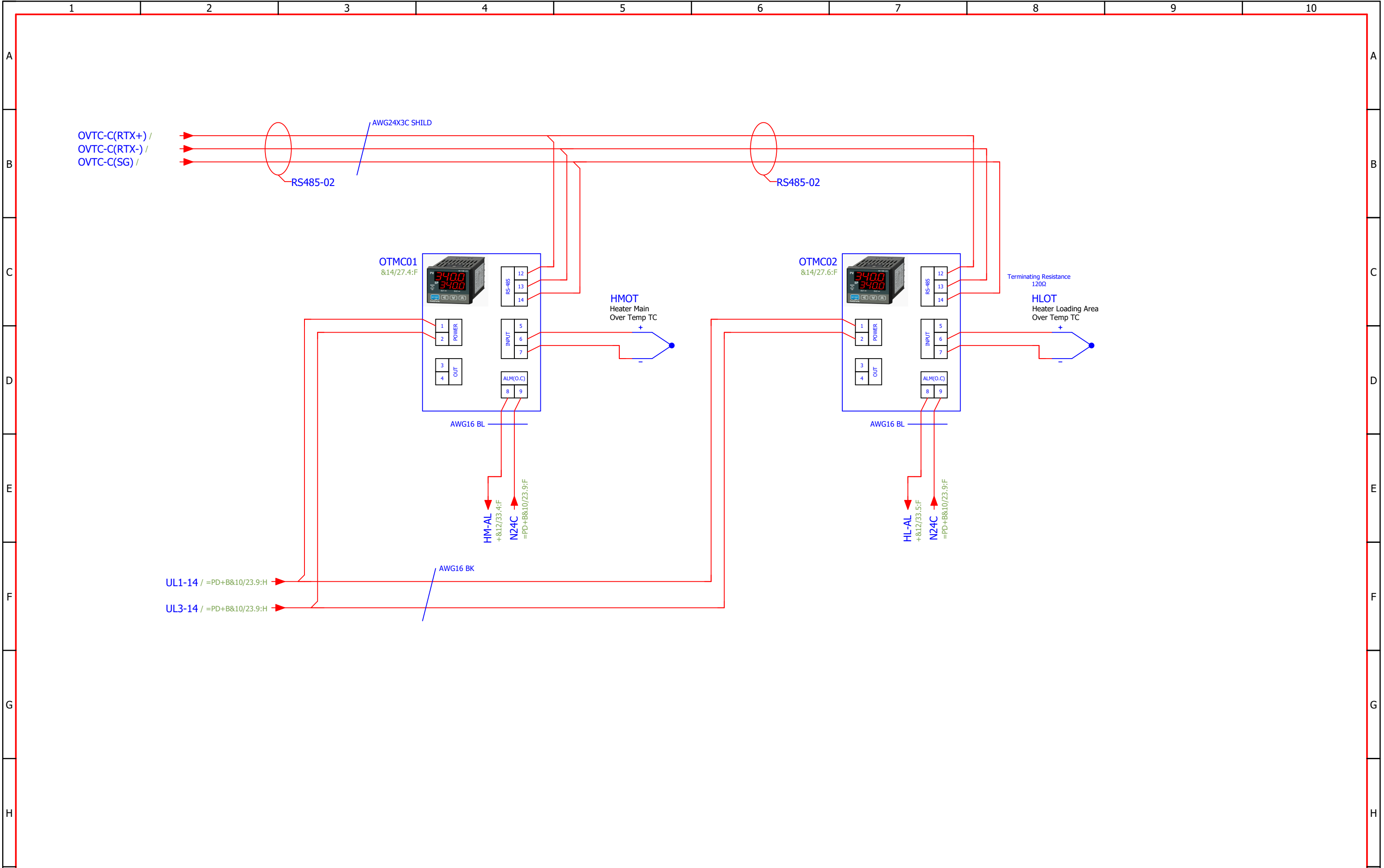


Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	TEMP DIAGREAM	SHEET 27 Page TOTAL 55 Page	KC INNOVATION
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-CI27-00		
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									




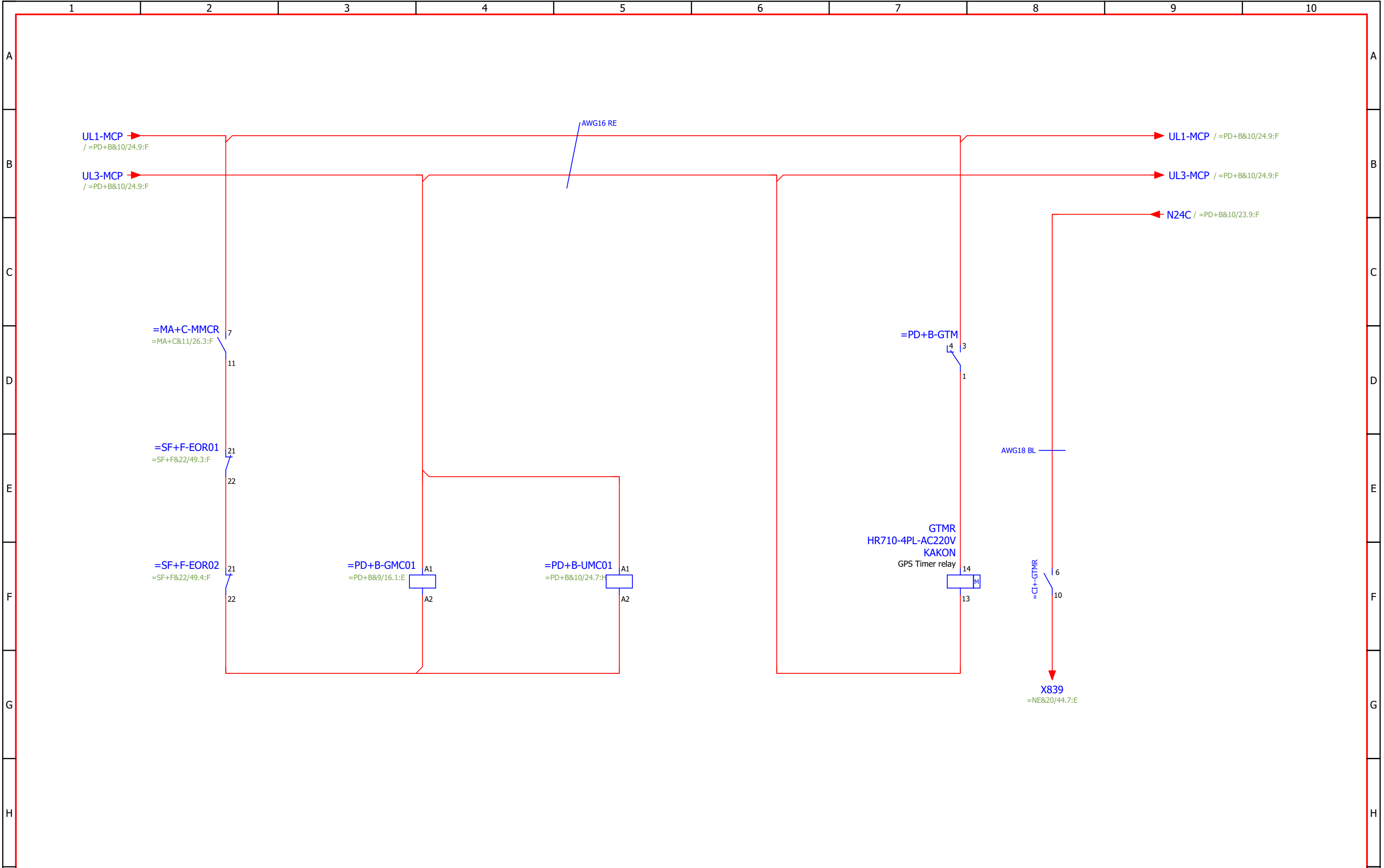
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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-CI28-00		
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									

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Designed	Checked	Approved	REVISION DATE																																			
J.Y.O	확인자	승인자																																				
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PJT Title.	가압Cure																																					
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CUSTOMER.	삼성 전자																																					
DWG NAME.	TEMP DRAWING																																					
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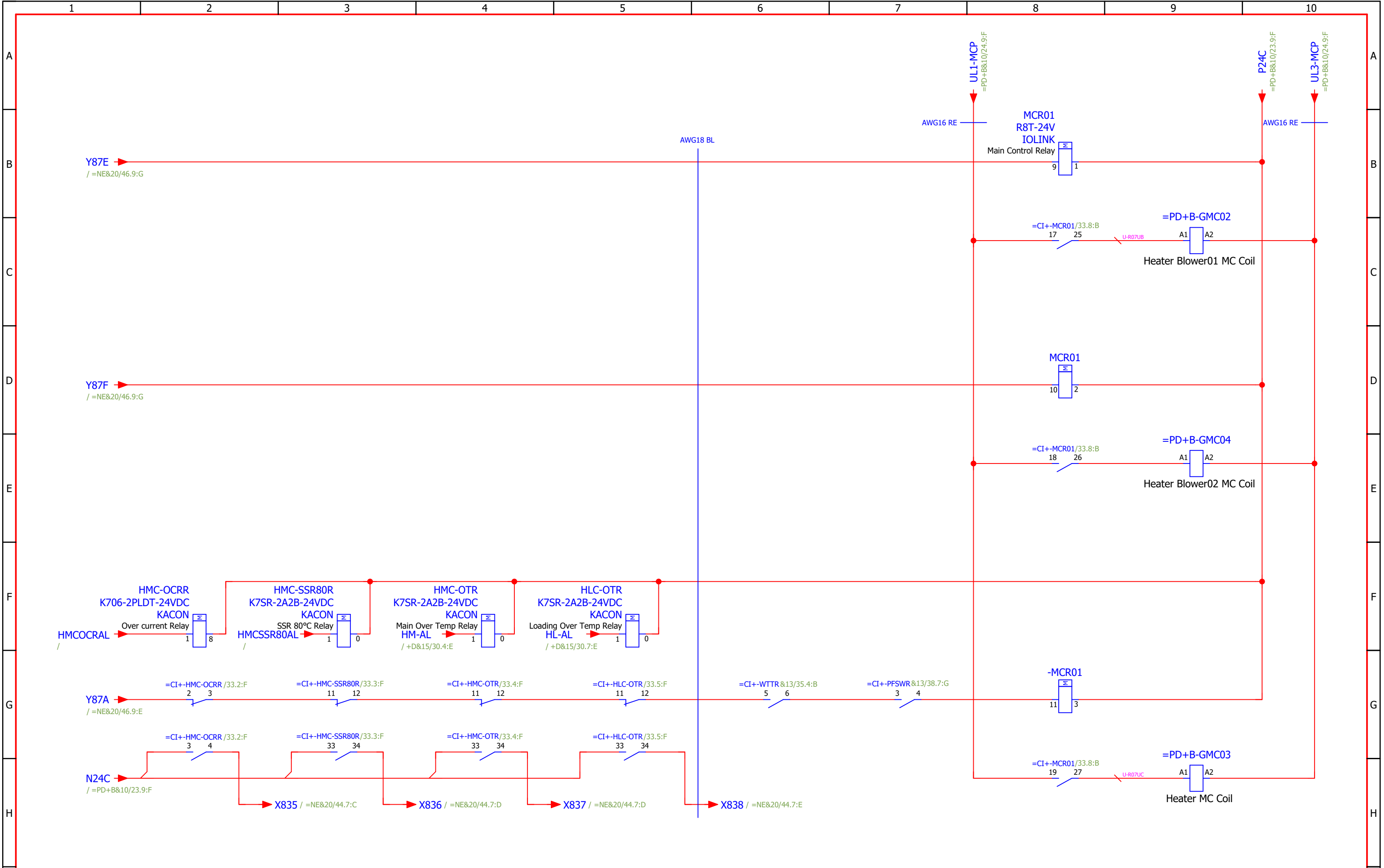


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2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									

1	2	3	4	5	6	7	8	9	10																												
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B										B																											
C										C																											
D										D																											
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Designed	Checked	Approved	REVISION DATE																																		
J.Y.O	확인자	승인자																																			
2024-04-11	2024-04-11	2024-04-11																																			
PJT Title.	가압Cure																																				
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SHEET	31 Page																																				
TOTAL	55 Page																																				



Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	MC CONTROL	SHEET 32 Page	KC INNOVATION
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-CI32-00	TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									



Designed	Checked	Approved	REVISION DATE
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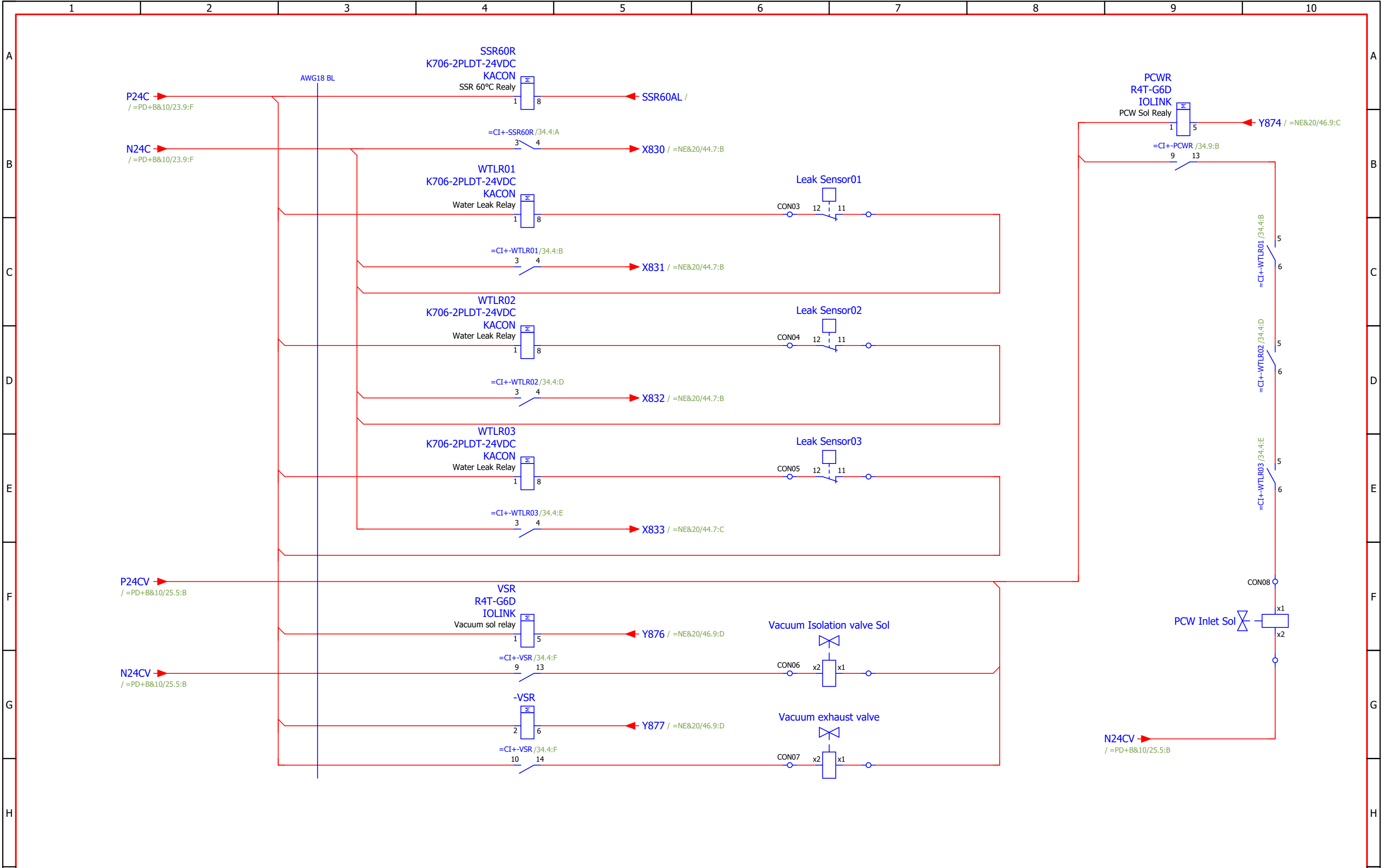
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PJT NO.	R-IR-3006-0057
CUSTOMER.	삼성 전자

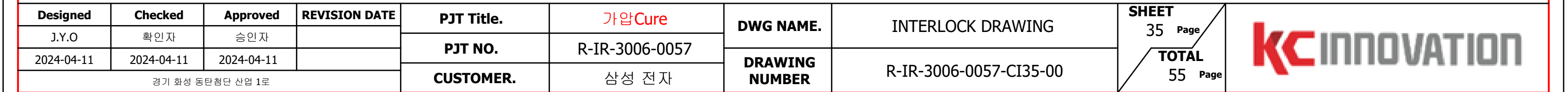
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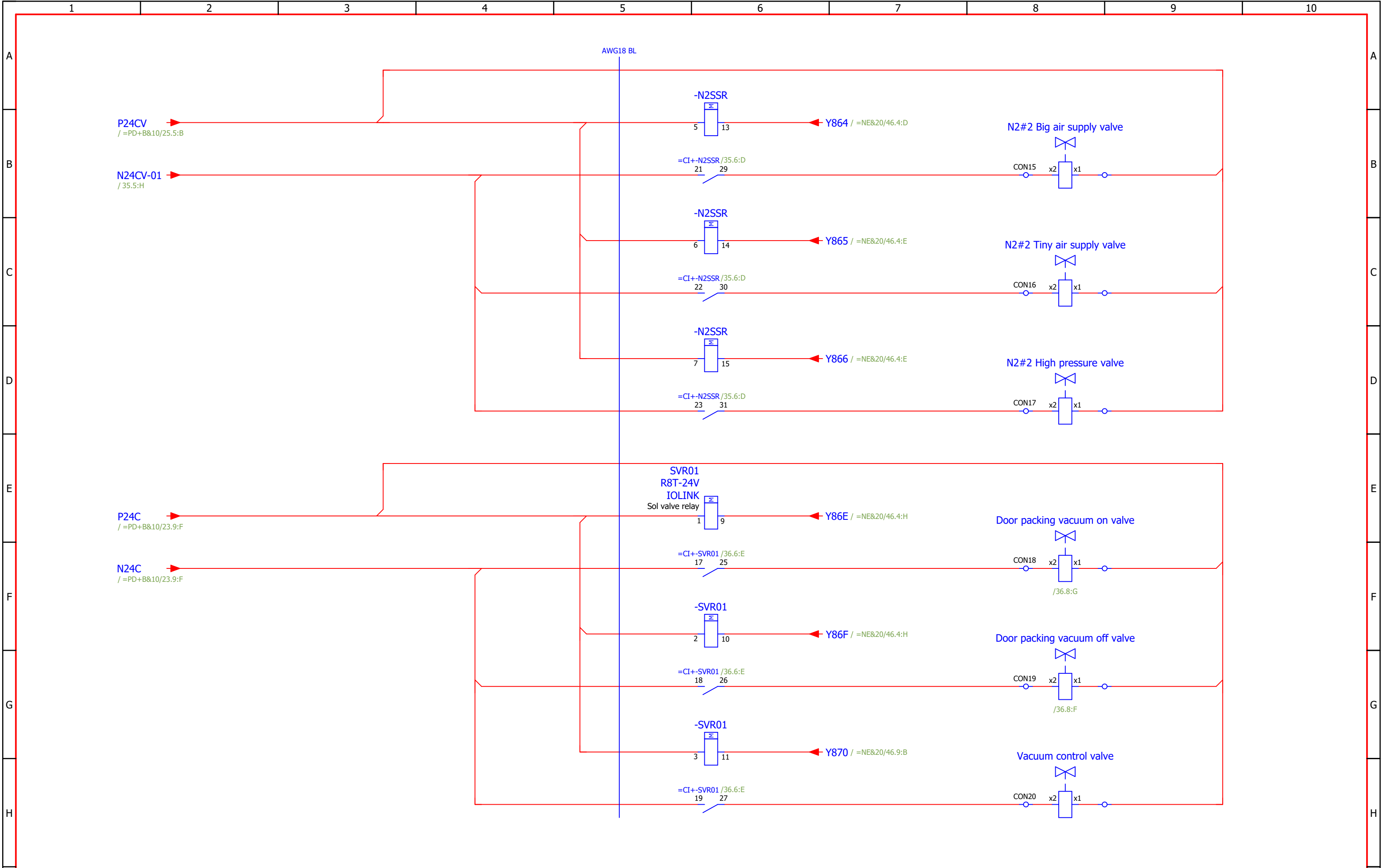
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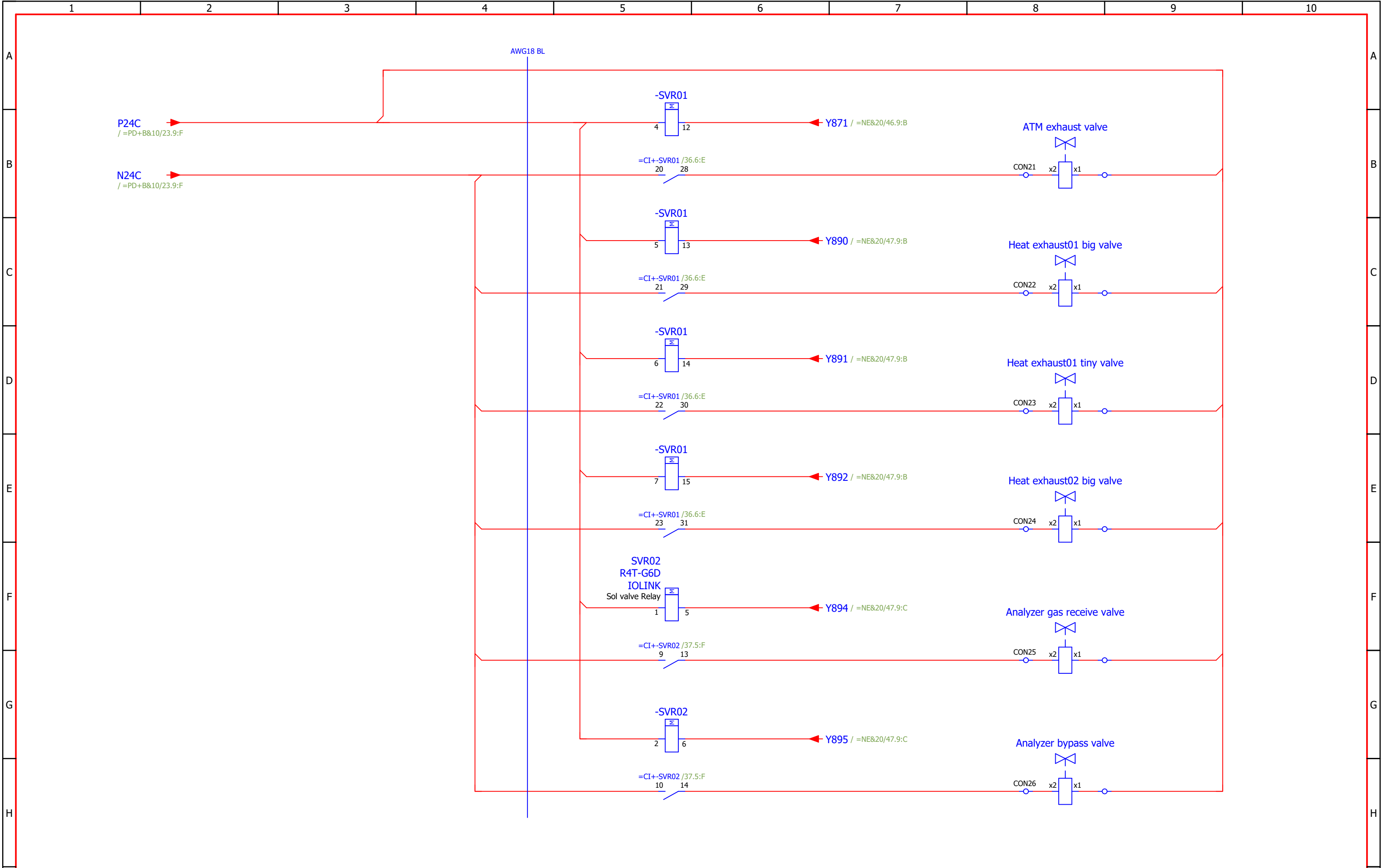


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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-CI34-00	TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
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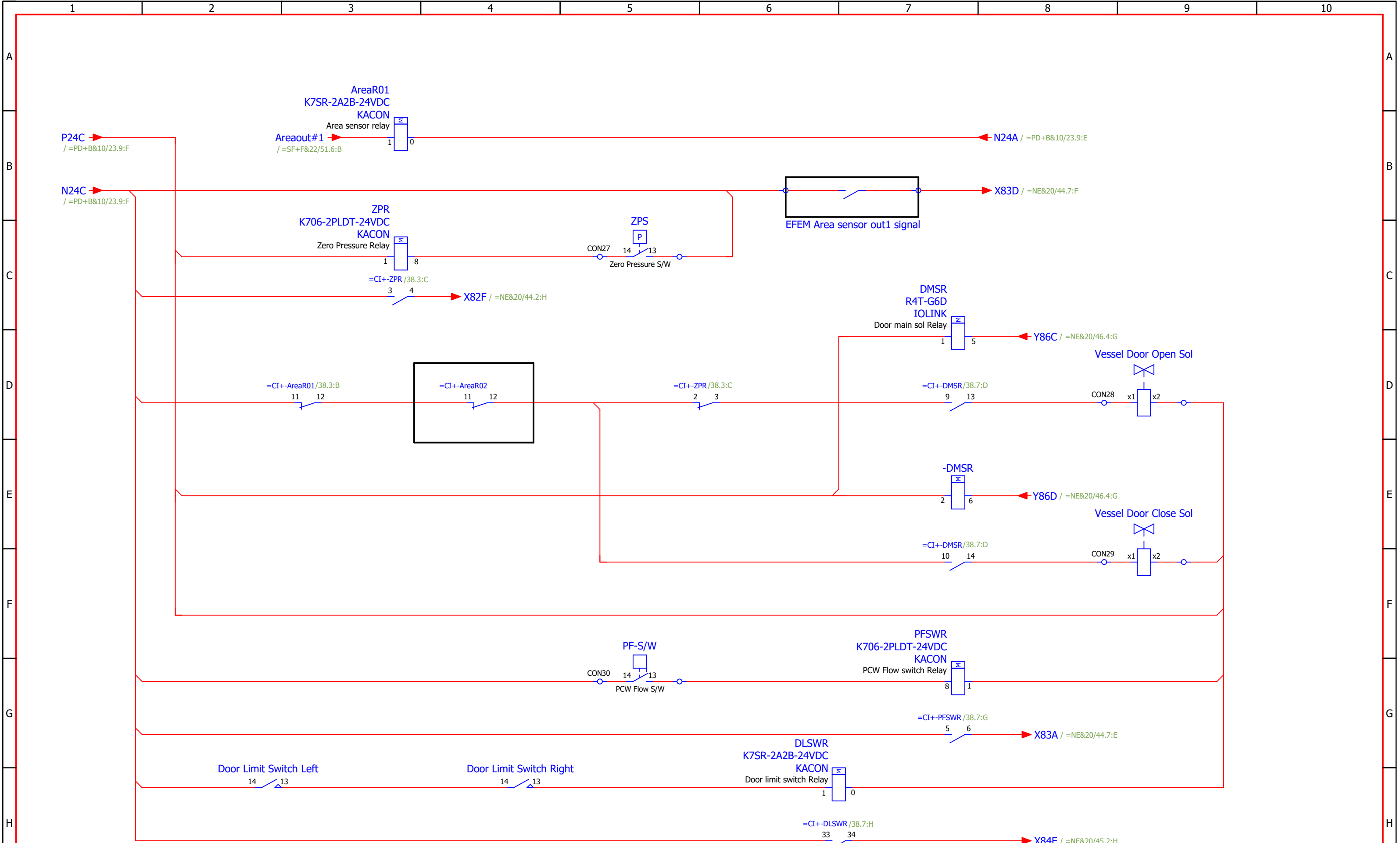




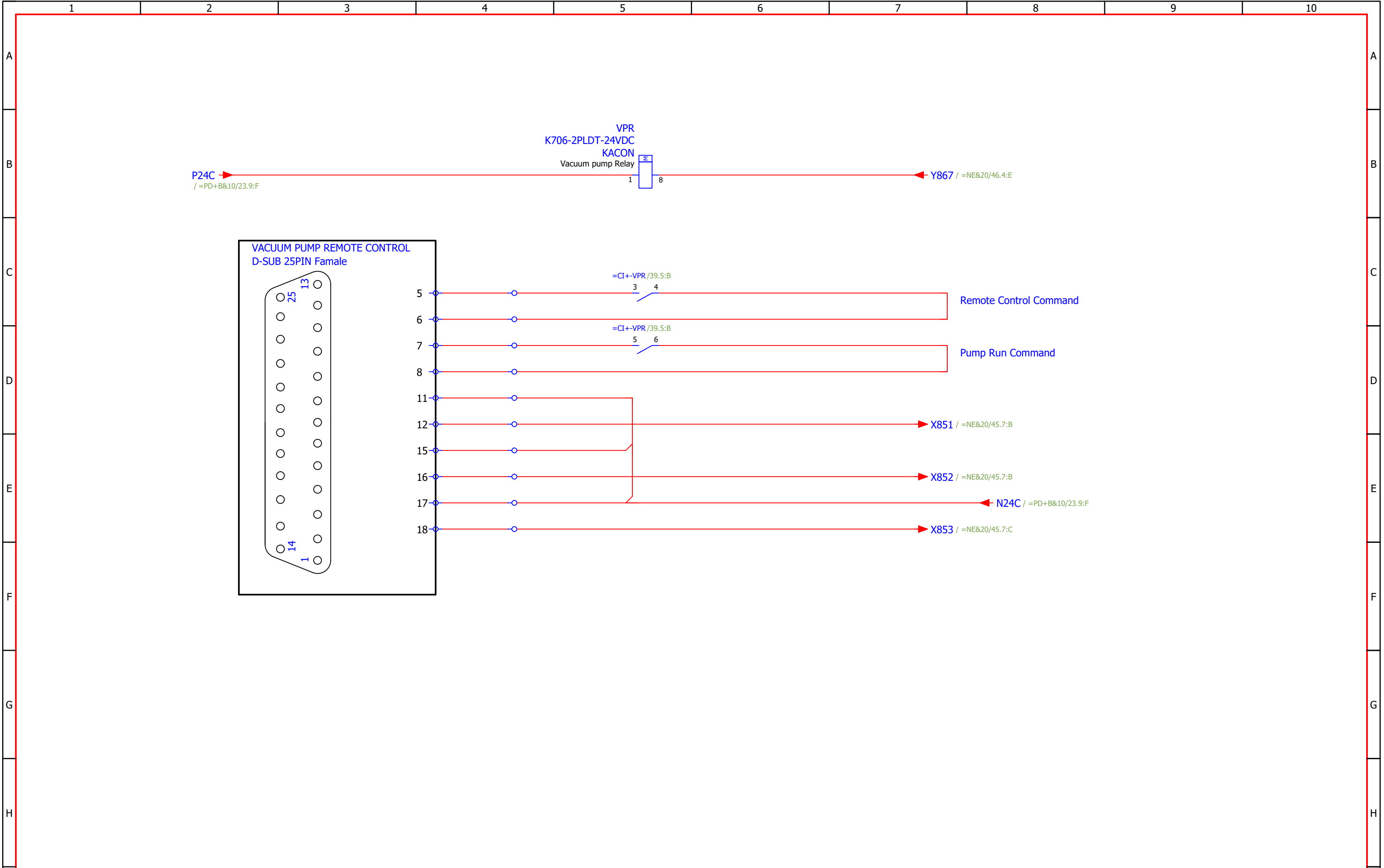
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2024-04-11	2024-04-11	2024-04-11			CUSTOMER.	삼성 전자				
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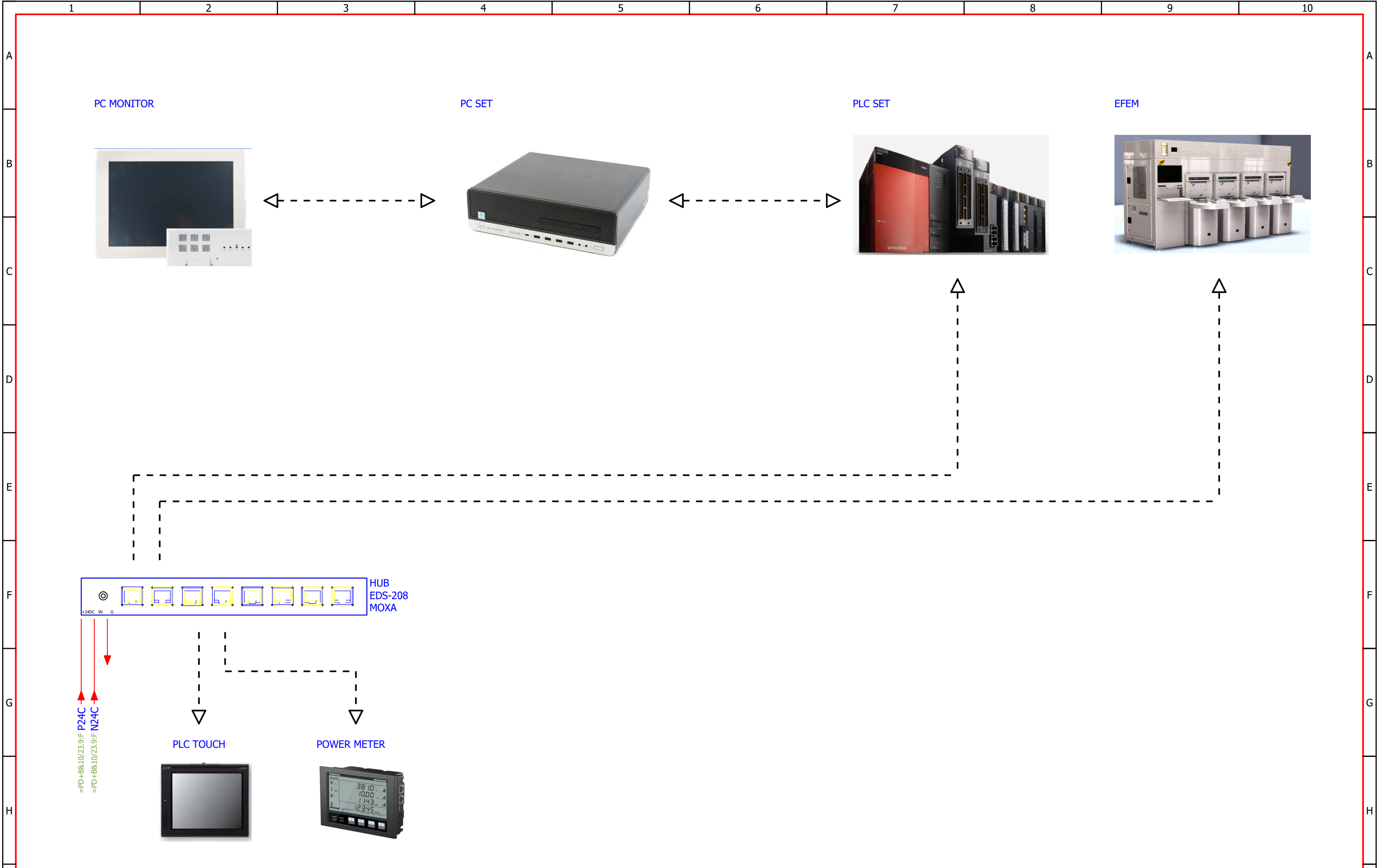
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2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
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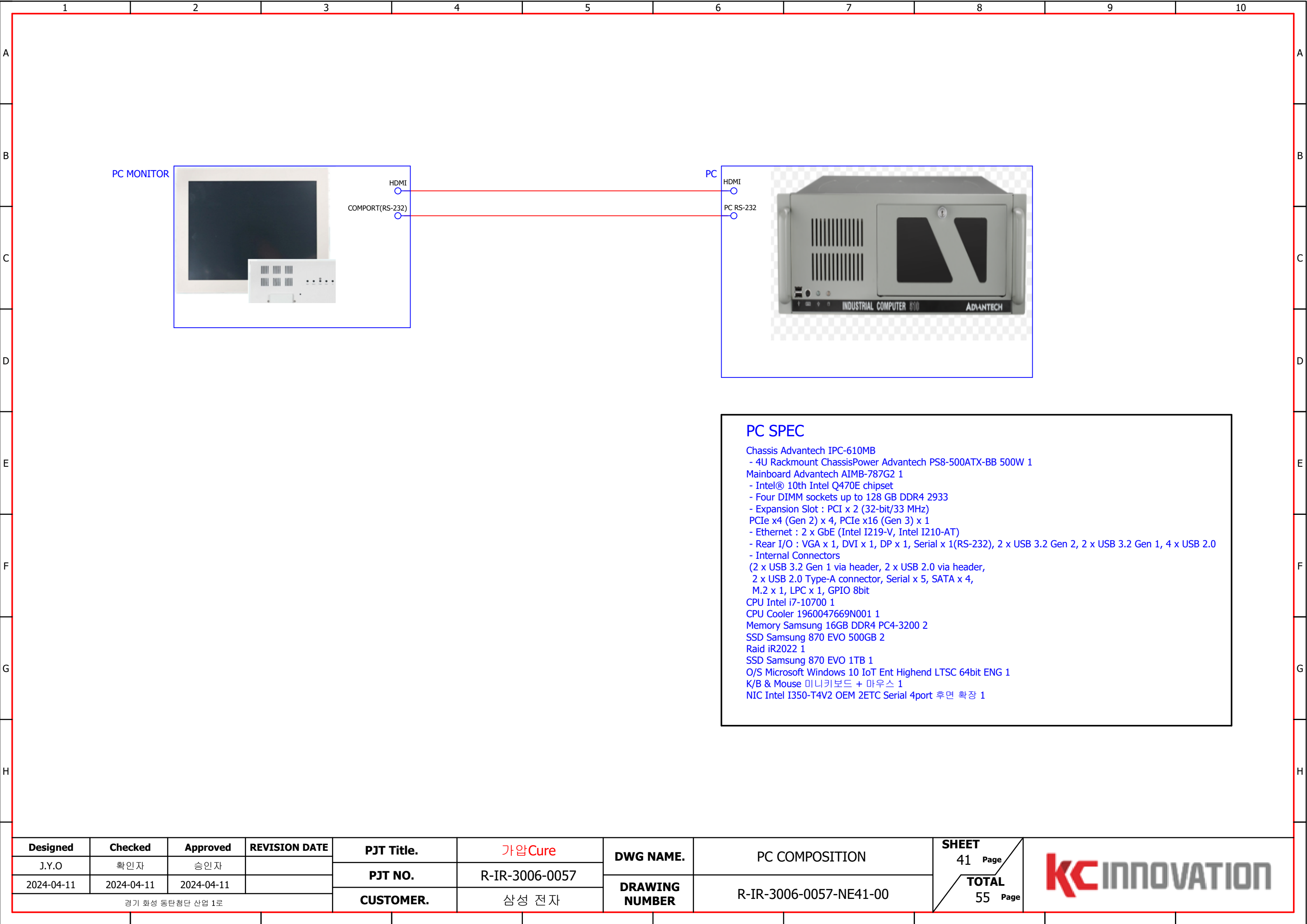
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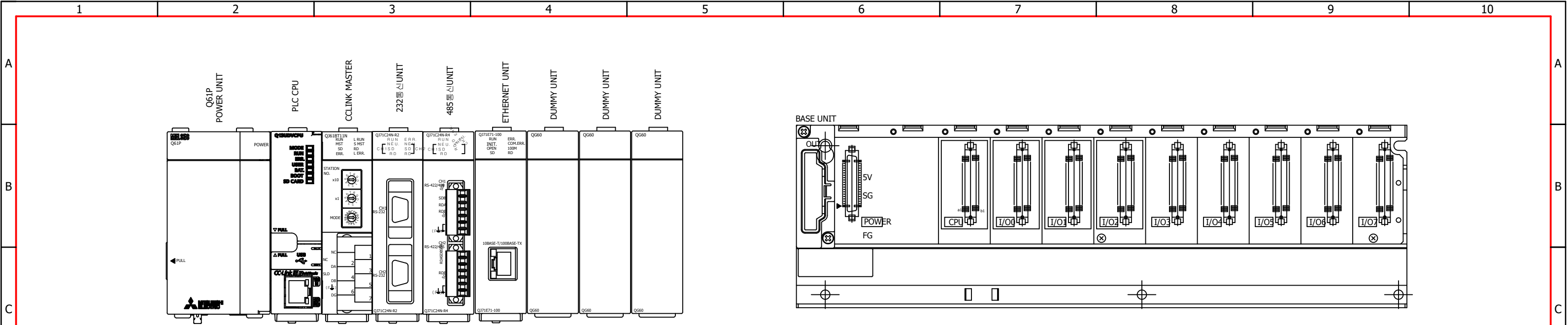


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경기 화성 동탄첨단 산업 1로									



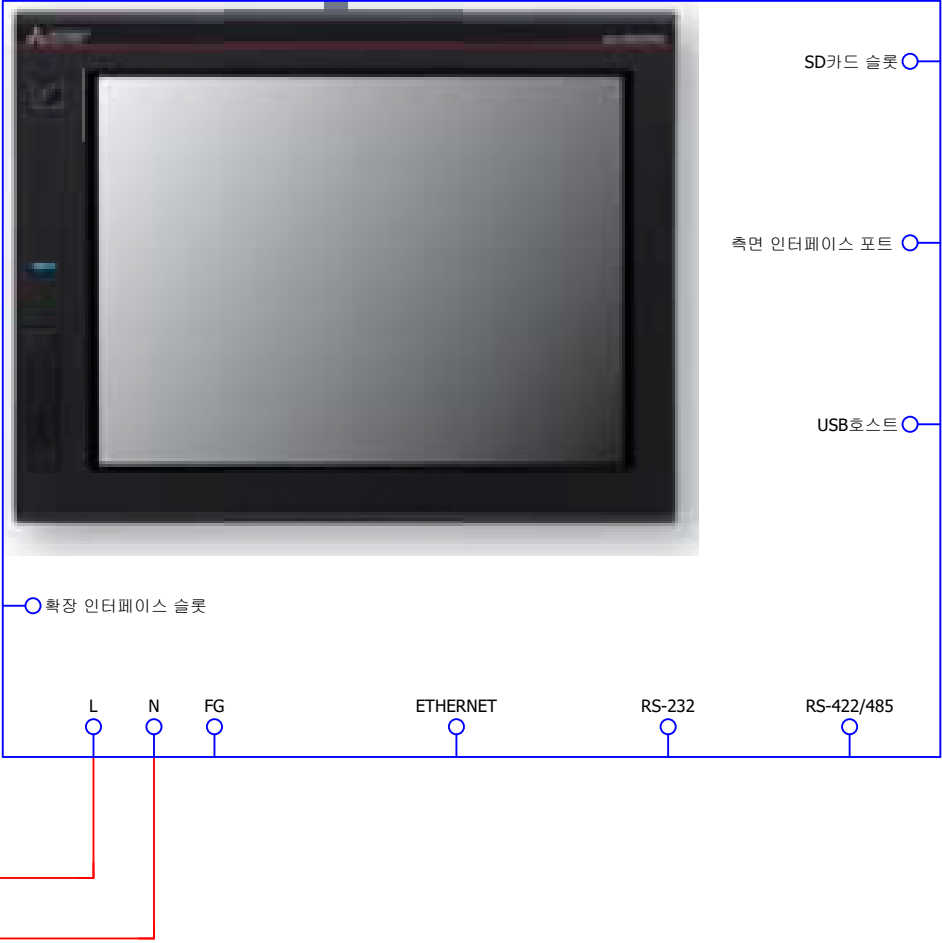
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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-NE40-00	TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자				
경기 화성 동탄첨단 산업 1로									





NO.	Name	Specification	Manufacturer	Qty
1	PLC CC-LINK MASTER UNIT	QJ61BT11N	MITSHUBISHI	1
2	PLC - DUMMY UNIT (SPARE)	QG60	MITSHUBISHI	3
3	PLC ETHERNET UNIT	QJ71E71-100	MITSHUBISHI	1
4	PLC CPU UNIT	Q13UDV-CPU	MITSHUBISHI	1
5	PLC CPU Memory Card	Q4MCA-2MBS	MITSHUBISHI	1
6	PLC battery	Q6BAT	MITSHUBISHI	1
7	TOUCH	GT2715-XTBA	MITSHUBISHI	1
8	PLC POWER UNIT	Q61P	MITSHUBISHI	1
9	PLC SERIAL COMMUNICATION UNIT	QJ71C24N-R2	MITSHUBISHI	1
10	PLC SERIAL COMMUNICATION UNIT	QJ71C24N-R4	MITSHUBISHI	1
11	PLC BASE UNIT	Q38B	MITSHUBISHI	1

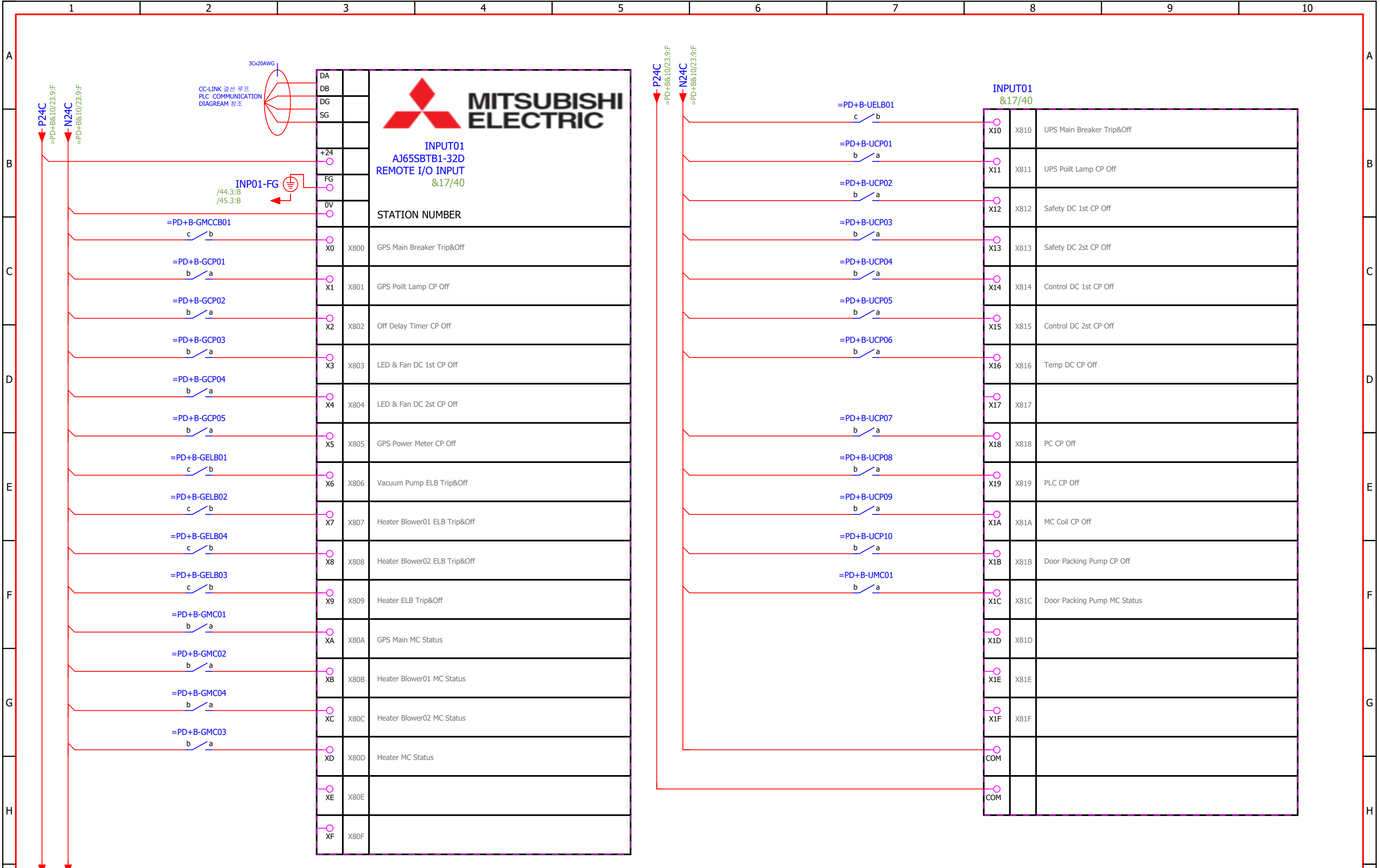
PLC TOUCH
GT2715-XTBA
MITSHUBISHI



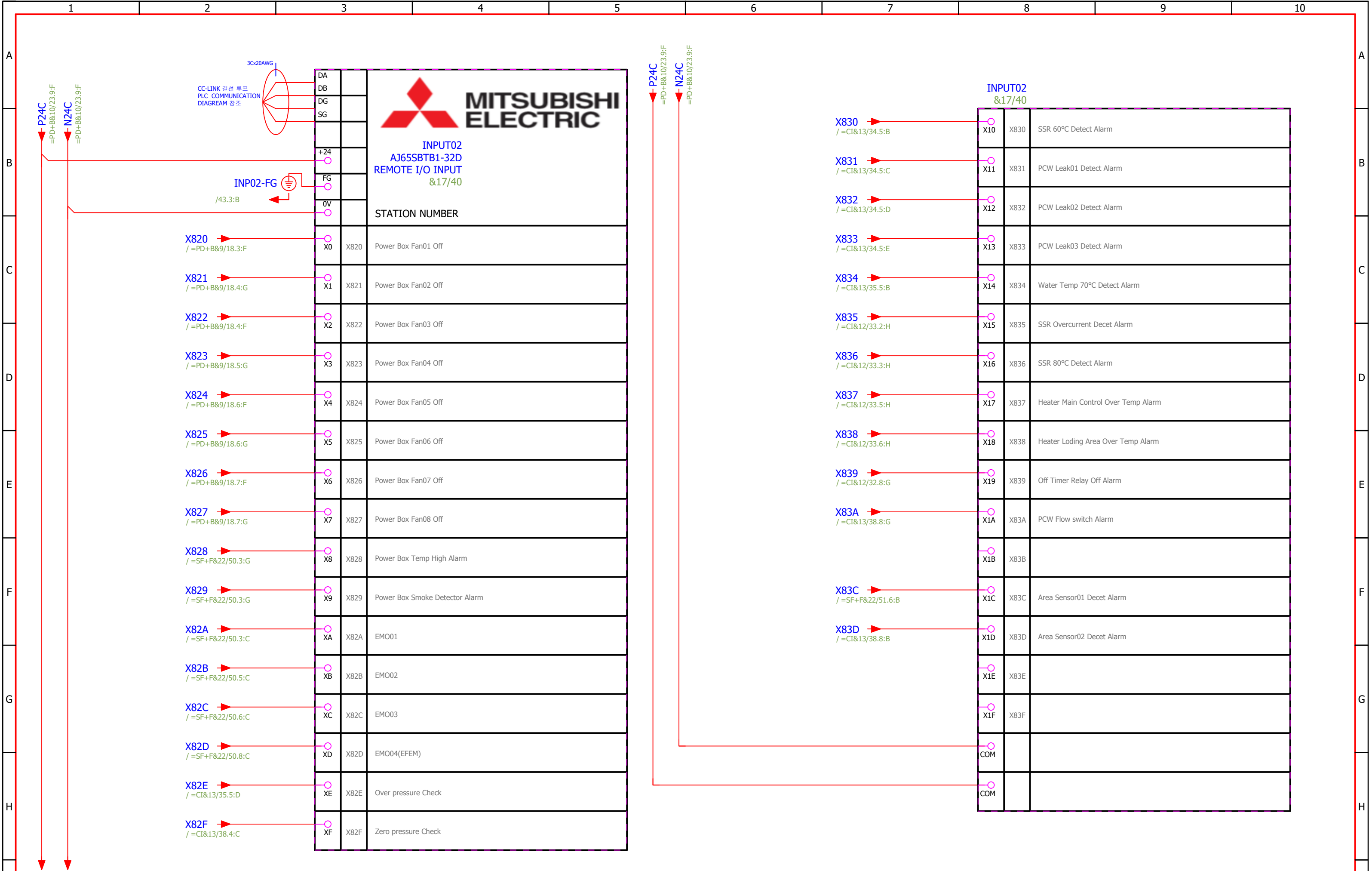
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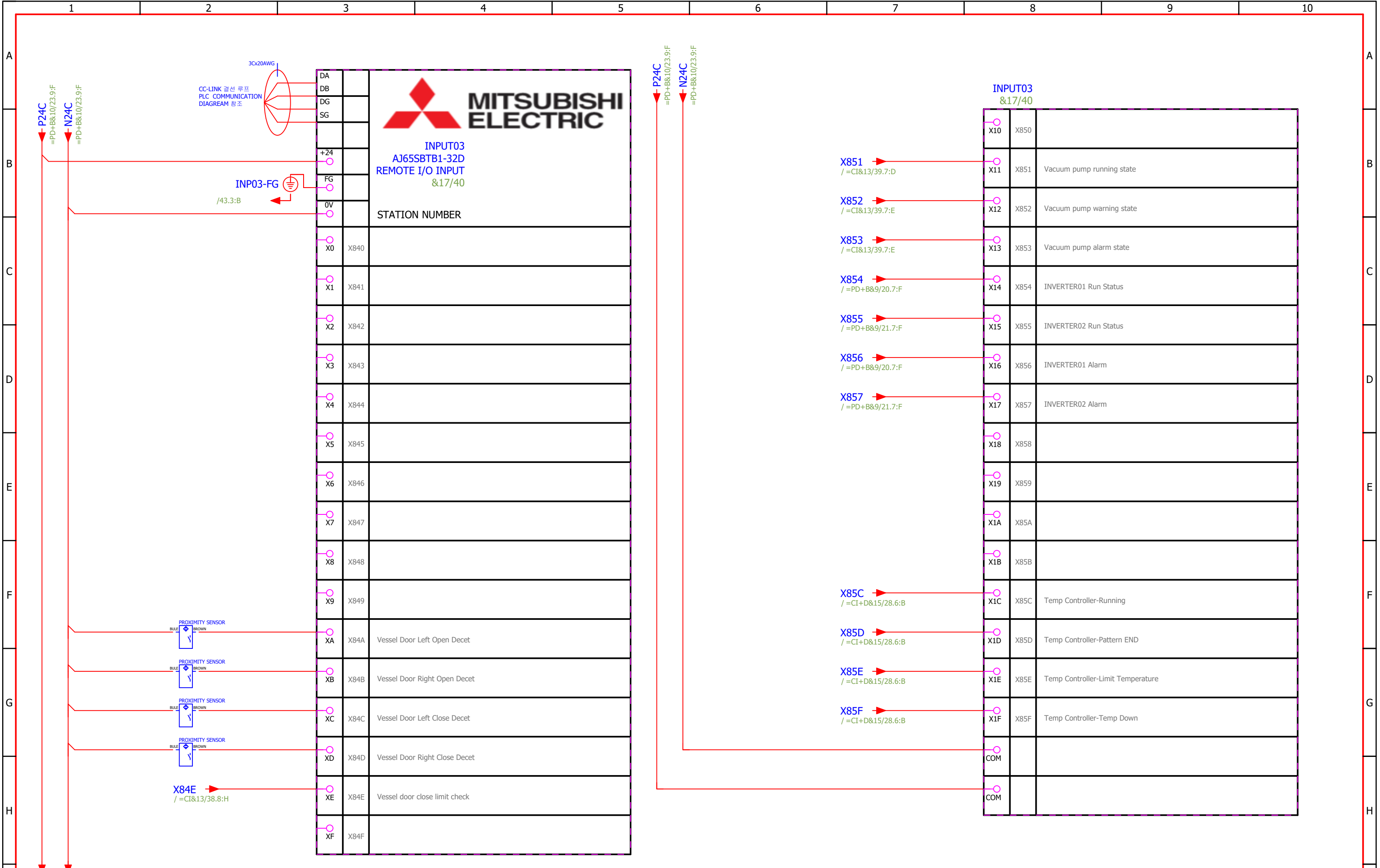
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Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	PLC COMPOSITION	SHEET 42 Page	KC INNOVATION
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER	R-IR-3006-0057-NE42-00	TOTAL 55 Page	
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경기 화성 동탄첨단 산업 1로									

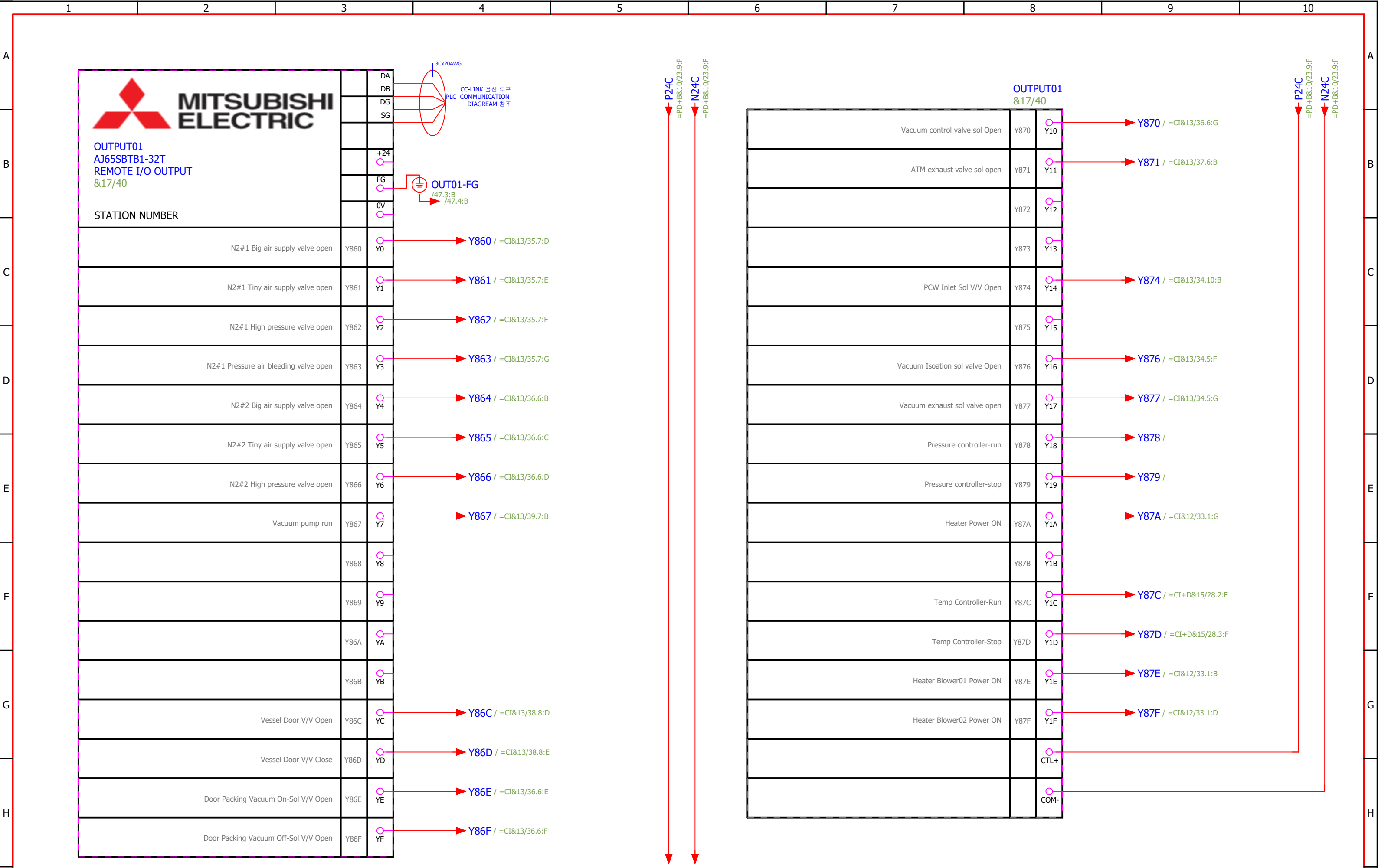


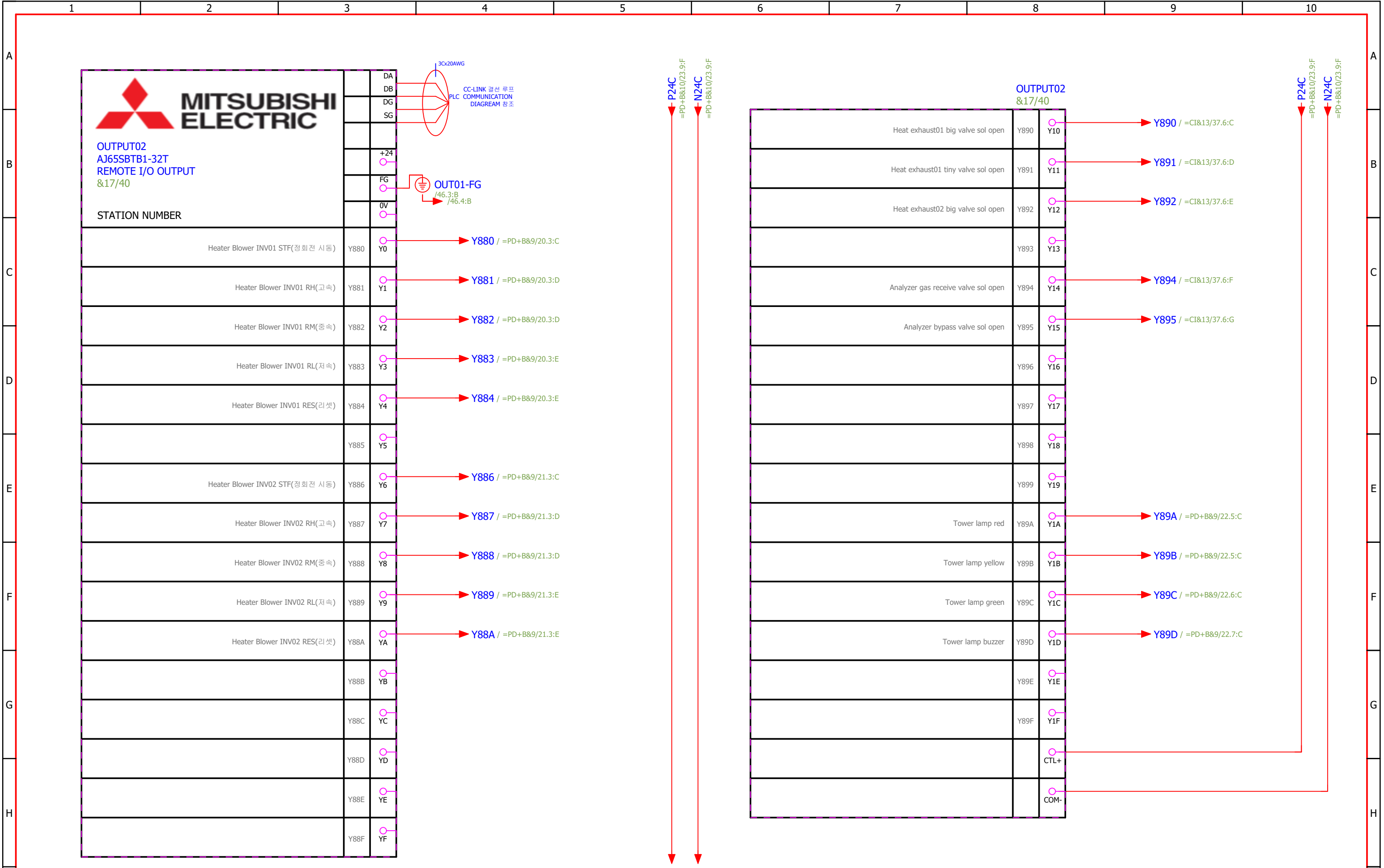
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J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER		TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자		R-IR-3006-0057-NE43-00		
경기 화성 동탄첨단 산업 1로									





Designed	Checked	Approved	REVISION DATE	PJT Title.	가압Cure	DWG NAME.	DIO DRAWING	SHEET 45 Page	KC INNOVATION
J.Y.O	확인자	승인자		PJT NO.	R-IR-3006-0057	DRAWING NUMBER		TOTAL 55 Page	
2024-04-11	2024-04-11	2024-04-11		CUSTOMER.	삼성 전자		R-IR-3006-0057-NE45-00		
경기 화성 동탄첨단 산업 1로									





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PJT Title.	가압Cure
PJT NO.	R-IR-3006-0057
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DWG NAME.	DIO DRAWING
DRAWING NUMBER	R-IR-3006-0057-NE47-00

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SAFETY CONTROLLER COMPOSTION

SAFETY PLC



EMS01



EMS02



EMS03



EFEM

EMS04

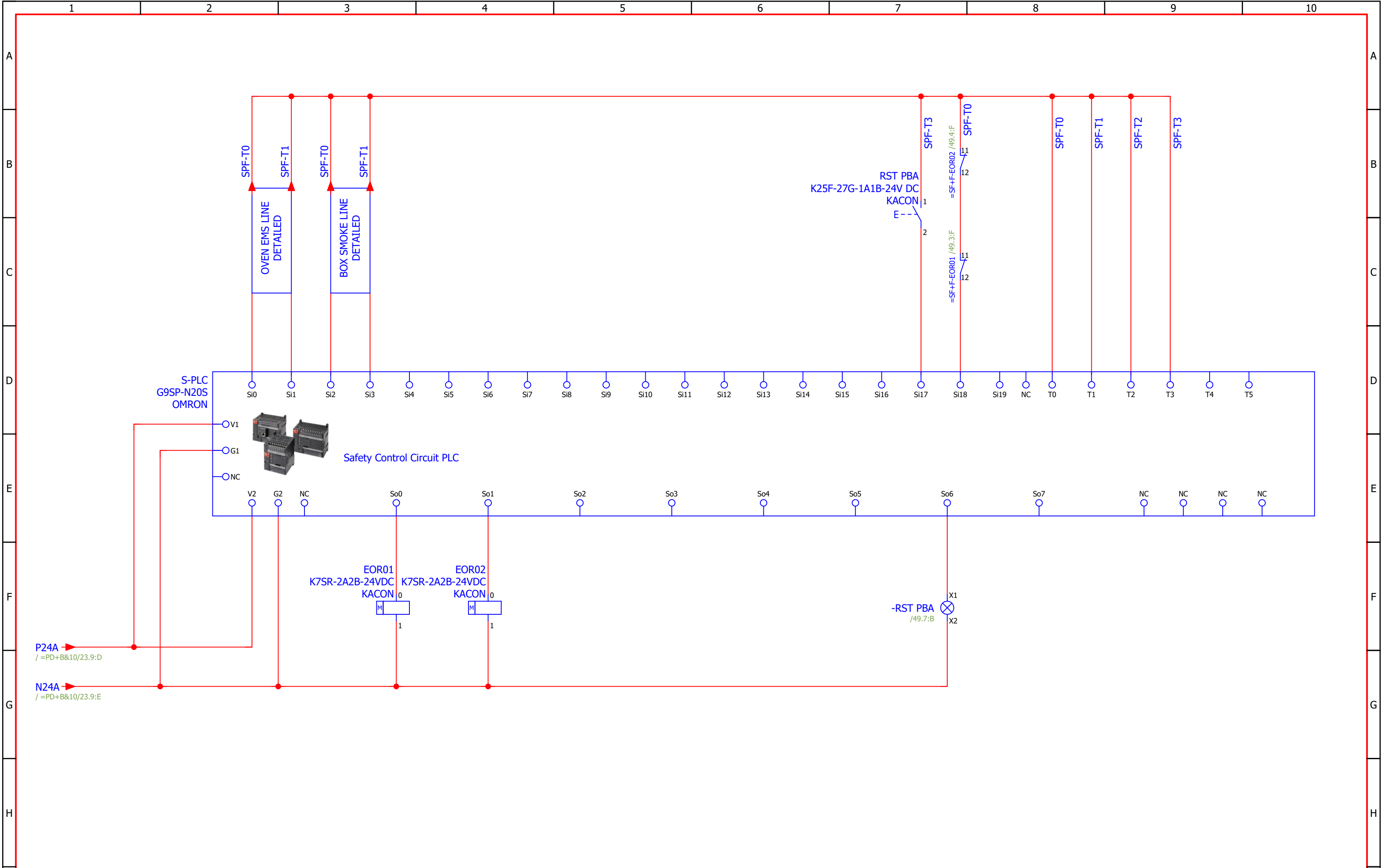


SMOKE SENSOR 01

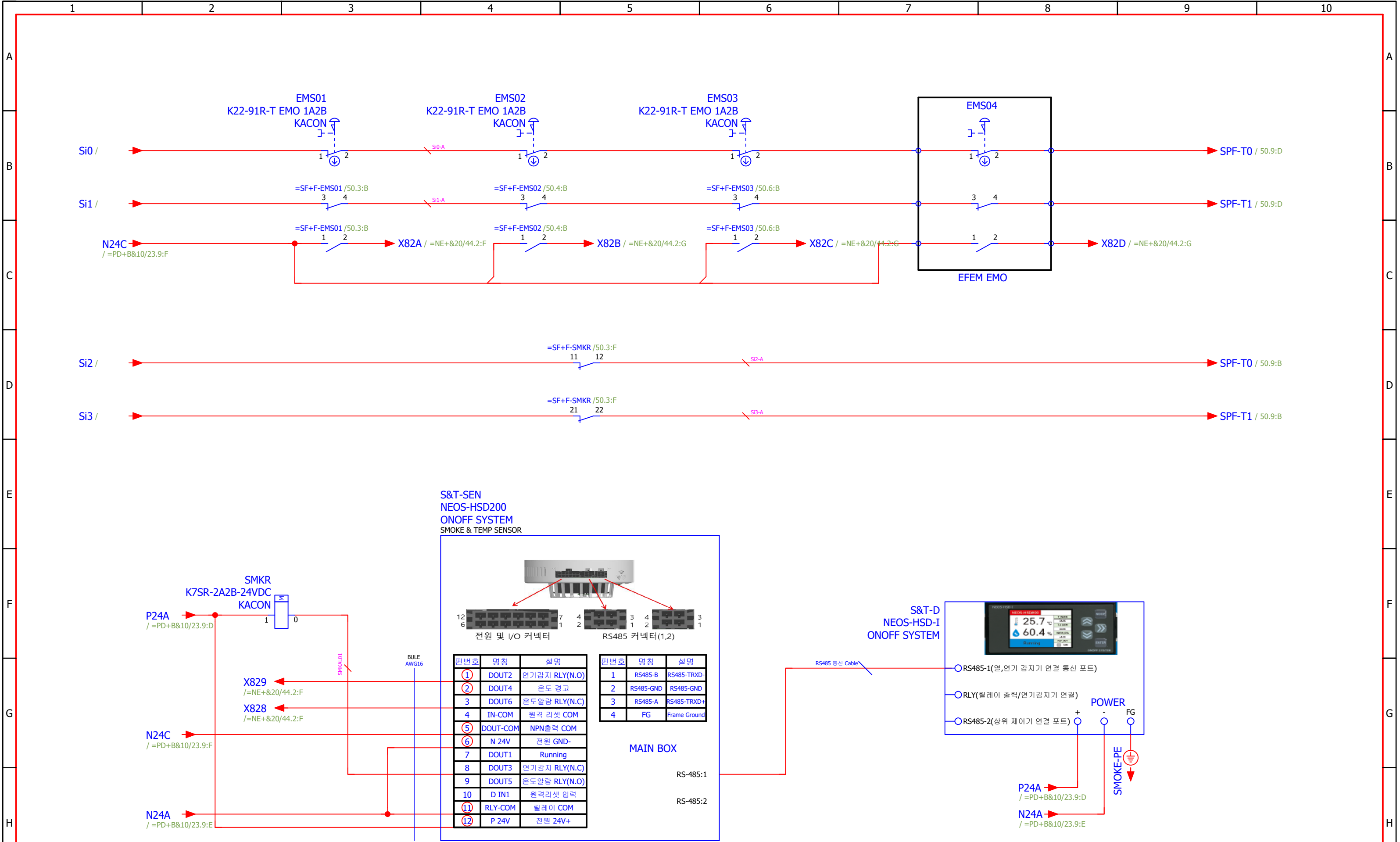


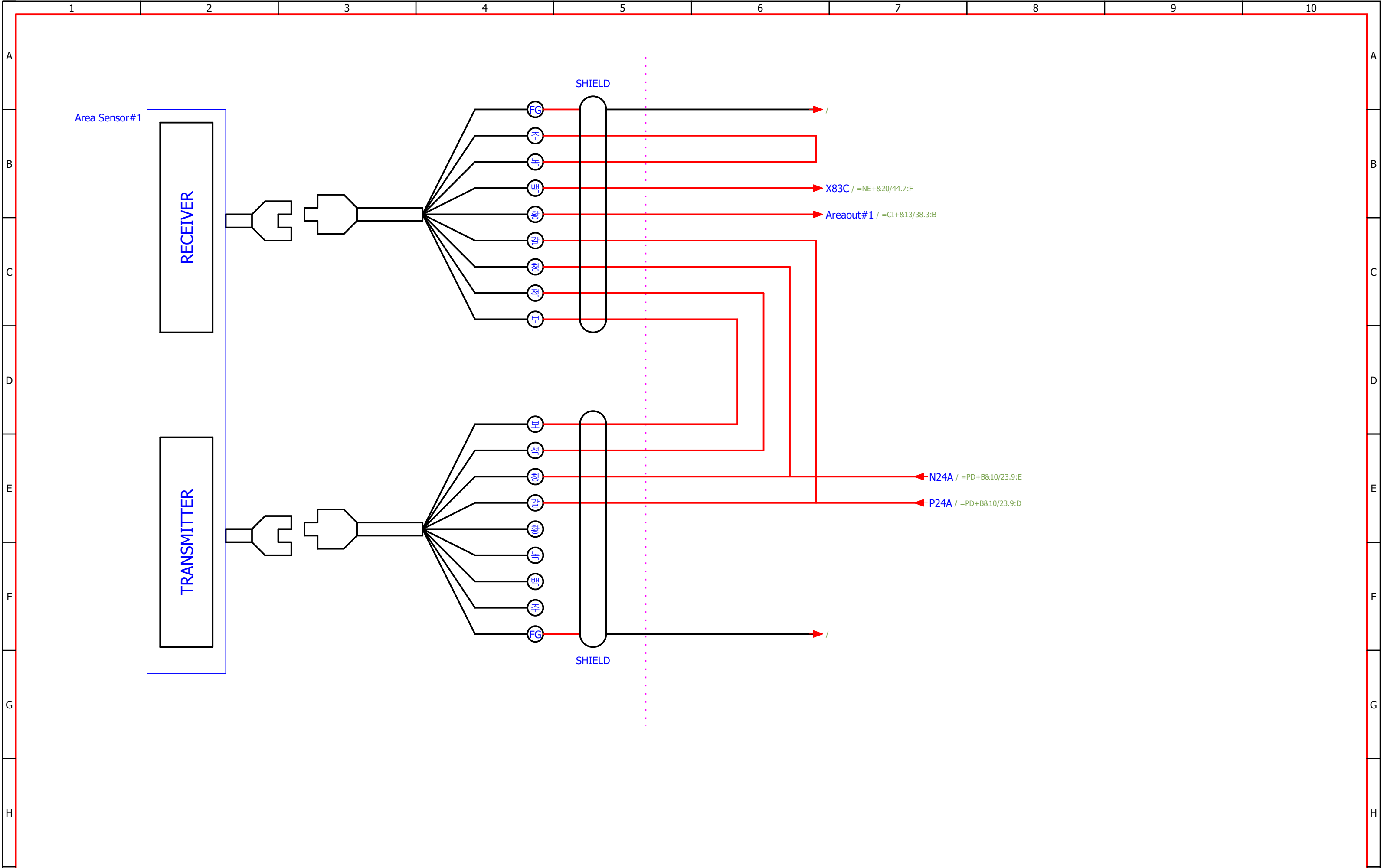
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