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BILL OF MATERIAL							
	DESCRIPTION	DEVICE ID	MANUFACTURER	PART NUMBER	OR EQUAL	QTY	SUPPLIED BY
1	ENCLOSURE, SINGLE DOOR, NEMA 4, HINGED COVER, 24"H X 30"W X 8"D		SAGINAW	SCE-24L3008LPLG	X	1	VENDOR
2	SUBPANEL		SAGINAW	SCE-30P24	X	1	VENDOR
3	PANEL MOUNTING FOOT KIT		SAGINAW	SCE-ELMFK4	X	1	VENDOR
4	MAIN BREAKER, THERMAL MAGNETIC, 15A, 2 POLE	CB1	SCHNEIDER ELECTRIC	BDL26015	X	1	VENDOR
5	OPERATING MECHANISM FOR BREAKER	CB1	SCHNEIDER ELECTRIC	9421LJ7	X	1	VENDOR
6	3" ROTARY HANDLE FOR BREAKER	CB1	SCHNEIDER ELECTRIC	9421LH3	X	1	VENDOR
7	SHAFT FOR ROTARY HANDLE	CB1	SCHNEIDER ELECTRIC	9421LS8	X	1	VENDOR
8	MANUAL STARTER AND PROTECTOR, THERMAL MAGNETIC, 4-6.3A	MCP1	SCHNEIDER ELECTRIC	GV2P10	X	1	VENDOR
9	MANUAL STARTER AND PROTECTOR, THERMAL MAGNETIC, 1.6-2.5A	MCP2	SCHNEIDER ELECTRIC	GV2P07	X	1	VENDOR
10	AUXILIARY BLOCK FOR MCP, 2 NO	MCP1,2	SCHNEIDER ELECTRIC	GVAE20	X	2	VENDOR
11	MOTOR CONTACTOR	CR1,2	SCHNEIDER ELECTRIC	LC1D09BD	X	2	VENDOR
12	LINK MODULE FOR MCP AND CR		SCHNEIDER ELECTRIC	GV2AF3	X	2	VENDOR
13	CIRCUIT BREAKER, 1 POLE, 3A	CB2	SCHNEIDER ELECTRIC	M9F43103			VENDOR
14	CIRCUIT BREAKER, 1 POLE, 10A	CB3	SCHNEIDER ELECTRIC	M9F43110	X	1	VENDOR
15	POWER SUPPLY, 120VAC, 24VDC, 10A	PS1	PHOENIX CONTACT	1159038	X	1	VENDOR
16	RELAY DPDT, 24VDC	RLY1-16	IDEC	RH2B-UL-DC24V	X	16	VENDOR
17	RELAY SOCKET	RLY1-16	IDEC	SH2B-05C	X	16	VENDOR
18	FUSED TERMINAL BLOCK W/LED, 5X20mm	FU1-7	PHOENIX CONTACT	3046090	X	7	VENDOR
19	FUSE, TIME DELAY, 1A	FU1-7	MERSEN	GDG1	X	7	VENDOR
20	TERMINAL BLOCK, PT 4	TB1	PHOENIX CONTACT	3211757	X	8	VENDOR
21	TERMINAL BLOCK END COVER, D-ST 4		PHOENIX CONTACT	3030420	X	3	VENDOR
22	GROUND TERMINAL BLOCK, PT 4-PE		PHOENIX CONTACT	3211766	X	4	VENDOR
23	TERMINAL PLUG-IN BRIDGE, 4 POSITION	TB1	PHOENIX CONTACT	3001595	X	2	VENDOR
24	TERMINAL BLOCK, PT 2.5-QUATTRO	TB2	PHOENIX CONTACT	3209578	X	29	VENDOR
25	END COVER, D-ST 2.5-QUATTRO	TB2	PHOENIX CONTACT	3030514	X	1	VENDOR
26	TERMINAL PLUG-IN BRIDGE, 10 POSITION	TB2	PHOENIX CONTACT	3030213	X	3	VENDOR
27	TERMINAL BLOCK, PT 2.5	TB2	PHOENIX CONTACT	3209510	X	33	VENDOR
28	GROUND TERMINAL BLOCK, PT 2.5-PE	TB2	PHOENIX CONTACT	3209536	X	1	VENDOR
29	END COVER, D-ST 2.5	TB2	PHOENIX CONTACT	3030417	X	1	VENDOR
30	END BRACKET		PHOENIX CONTACT	0800886	X	11	VENDOR




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BILL OF MATERIAL							
	DESCRIPTION	DEVICE ID	MANUFACTURER	PART NUMBER	OR EQUAL	QTY	SUPPLIED BY
31	PILOT LIGHT, WHITE, 24V	LT1	SCHNEIDER ELECTRIC	XB4BVB1	X	1	VENDOR
32	SELECTOR SWITCH, 2 POSITION, 1 N.O. CONTACT	SS1	SCHNEIDER ELECTRIC	XB4BD21	X	1	VENDOR
33	ILLUMINATED PUSHBUTTON, MOMENTARY, GREEN	IPB1-9	SCHNEIDER ELECTRIC	ZB4BW333	X	9	VENDOR
34	MOUNTING COLLAR FOR PUSHBUTTON	IPB1-9	SCHNEIDER ELECTRIC	ZB4BZ009	X	9	VENDOR
35	LIGHT BLOCK, WHITE, 24V	IPB1-9	SCHNEIDER ELECTRIC	ZBVB1	X	9	VENDOR
36	CONTACT BLOCK, 1 N.O.	IPB1-9	SCHNEIDER ELECTRIC	ZBE101	X	10	VENDOR
37	PUSHBUTTON, MOMENTARY, RED, 1 N.C.	PB1-9	SCHNEIDER ELECTRIC	XB4BL42	X	9	VENDOR
38	22mm LABELS					20	VENDOR
39	EMERGENCY STOP PUSH BUTTON, 2 N.C.	E-STOP1	SCHNEIDER ELECTRIC	XB4BS8444	X	1	VENDOR
40	EMERGENCY STOP YELLOW LEGEND PLATE	E-STOP1	SCHNEIDER ELECTRIC	ZBY9320	X	1	VENDOR
41	GROUND LUG, 14-2AWG		THOMAS & BETTS	ADR2	X	1	VENDOR
42	WIREWAY, 1" X 3"		PANDUIT	F1X3LG6	X	AS REQ.	VENDOR
43	WIREWAY COVER, 1"		PANDUIT	C1LG6	X	AS REQ.	VENDOR
44	DIN RAIL, NS 35/7.5		PHOENIX CONTACT	0801733	X	AS REQ.	VENDOR
45	CABLE ENTRY, 9 KNOCKOUTS, 0.138"-0.413"		ROXTEC	RG M63/9	X	1	VENDOR
46	CABLE GLAND, BLACK, M20, 0.236"-0.512"		LAPP	53111220	X	4	VENDOR
47	LOCK NUT FOR CABLE GLAND, BLACK, M20		LAPP	53119120	X	4	VENDOR
48	DB25, MALE, D-SUB CONNECTOR, SOLDER CUP		L-COM	SD25P	X	1	VENDOR
49	JACK SCREW KIT, 4-40 D-SUB HARDWARE		L-COM	SDG250	X	1	VENDOR
50	DB25, FEMALE, D-SUB CONNECTOR, SOLDER CUP		L-COM	SD25S	X	1	VENDOR
51	DB25 HOOD KIT, METAL		L-COM	SDC25AG	X	1	VENDOR

* SHIP LOOSE ITEMS TO CUSTOMER.

CONFIDENTIAL - 94341
VS:A1/T1-000/Status:50

ORIGINAL SCALE: X
DRAWN BY: MCCOMBS
DATE: 2024-09-04
TECHNICAL: ---
APPROVED DATE: ---


TOLERANCES

ALL DIMS IN Inches
X ± 0.05
XX ± 0.02
XXX ± 0.005
ANGLES ± 0°-30' UNLESS OTHERWISE STATED

MACHINED COMPONENTS

SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED.

AUTOCAD DRAWING

DOCUMENT NUMBER

301279355

COMPONENT

ECP FOR COSMOS 12, 120VAC

MATERIAL

N/A

FINISH

N/A

SIZE

D

DRAWING NUMBER

6565942

SHEET No.

1 of 10

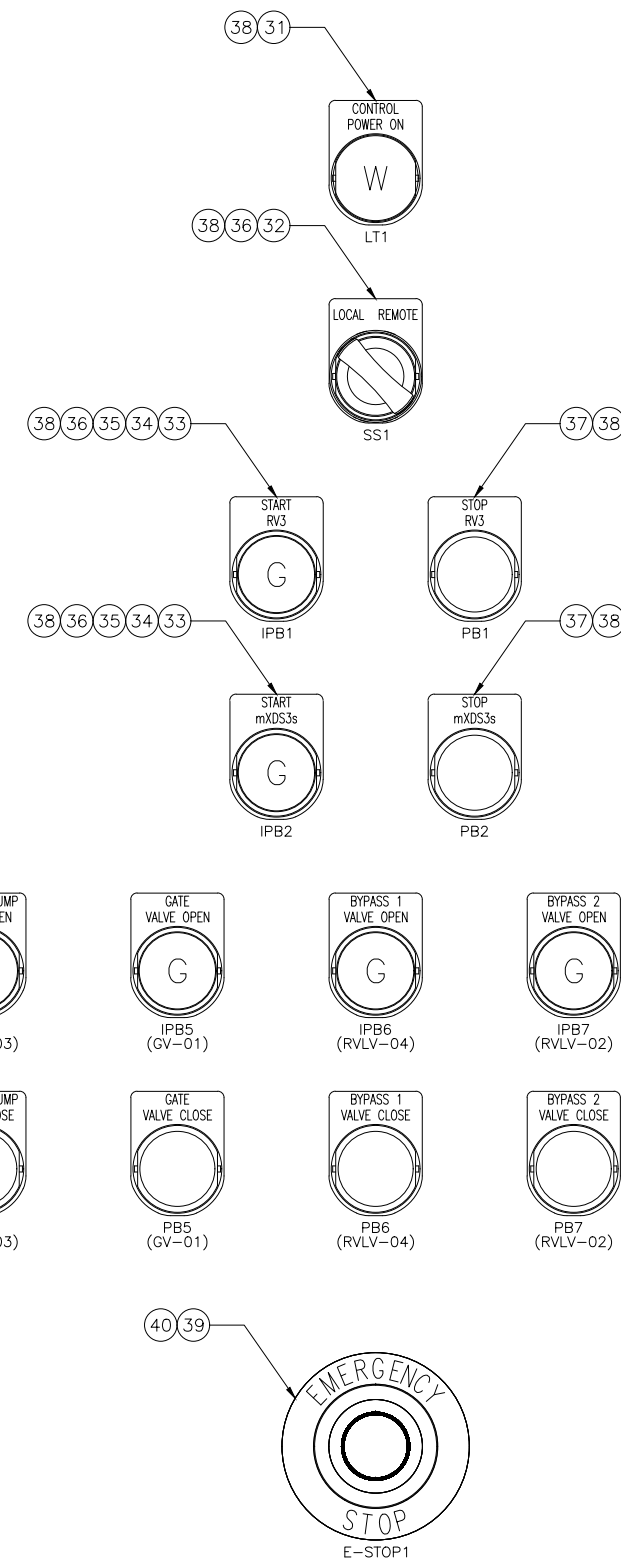
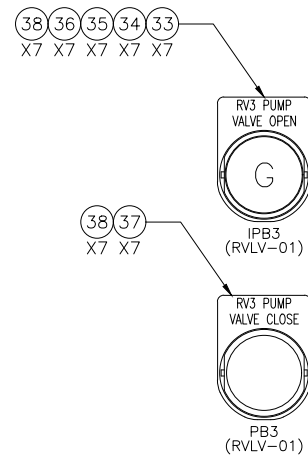
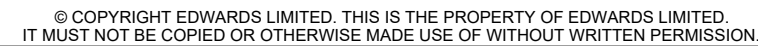
ISSUE


A0

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ECON: ---
DATE: ---

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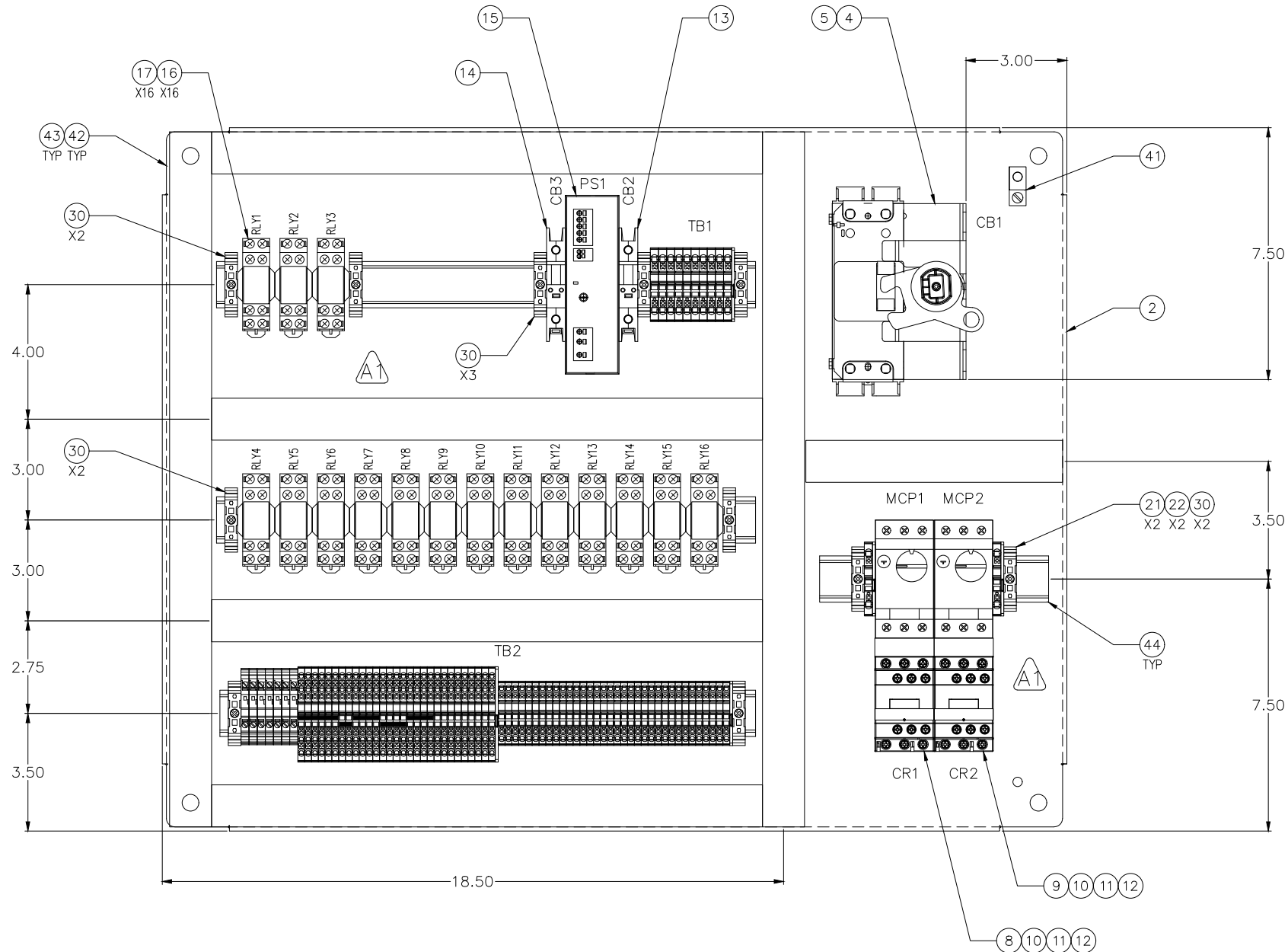
301279355



ORIGINAL SCALE: X		TOLERANCES		COMPONENT		ECP FOR COSMOS 12, 120VAC		REVISIONS BY: DATE: EPOCH:
DRAWN BY: MCCOMBS		ALL DIMS IN inches X ± 0.05 XX ± 0.02 XXX ± 0.005		MATERIAL		N/A		
DATE: 2024-09-04		ANGLES ±0°-30° UNLESS OTHERWISE STATED		FINISH		N/A		
TECHNICAL: _ _ _ _								
APPROVED DATE:		MACHINED COMPONENTS		SIZE		DRAWING NUMBER		
		SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED.		SHEET No.		ISSUE		
		AUTOCAD DRAWING		D		6565942		
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						A0		



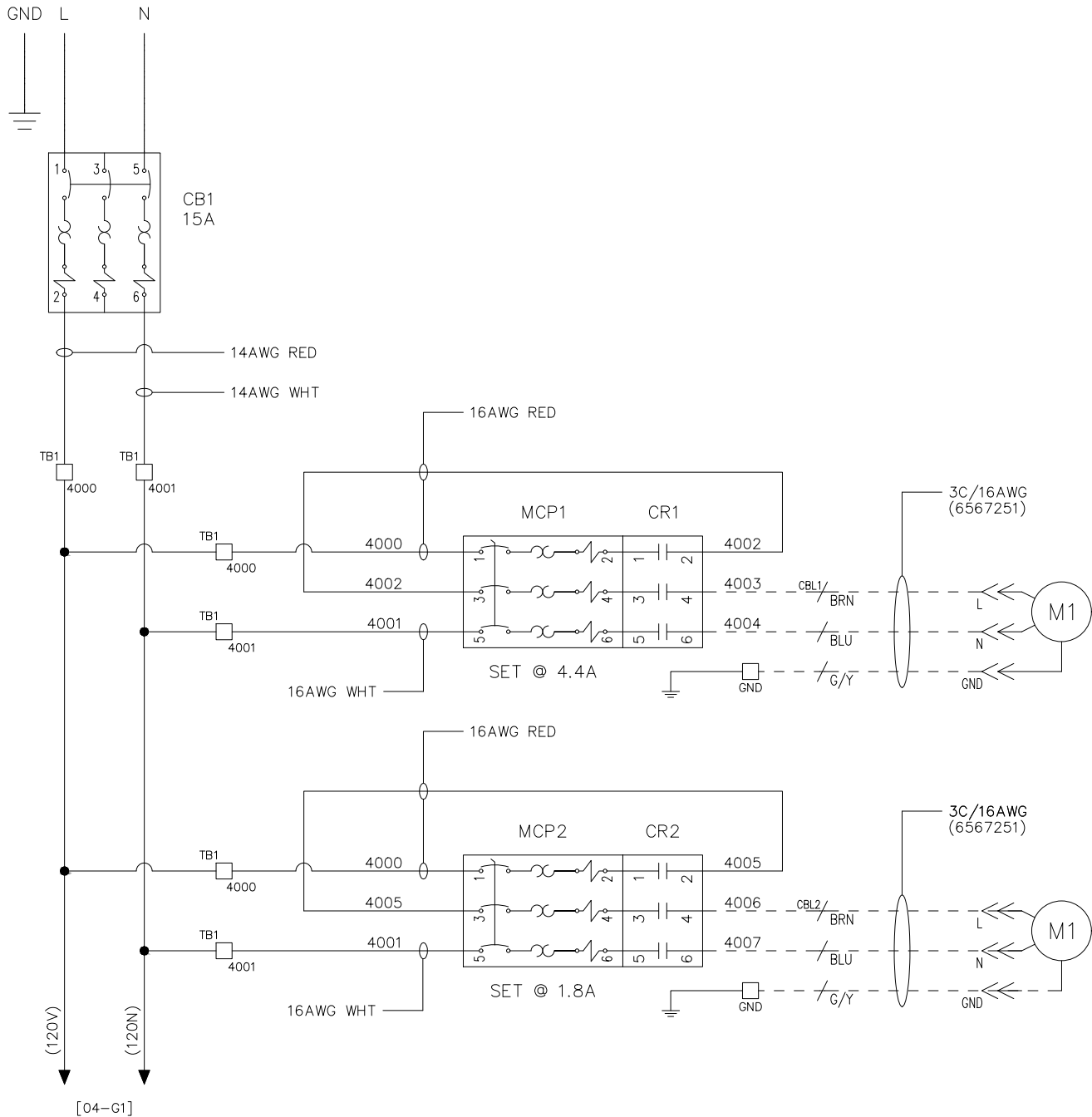
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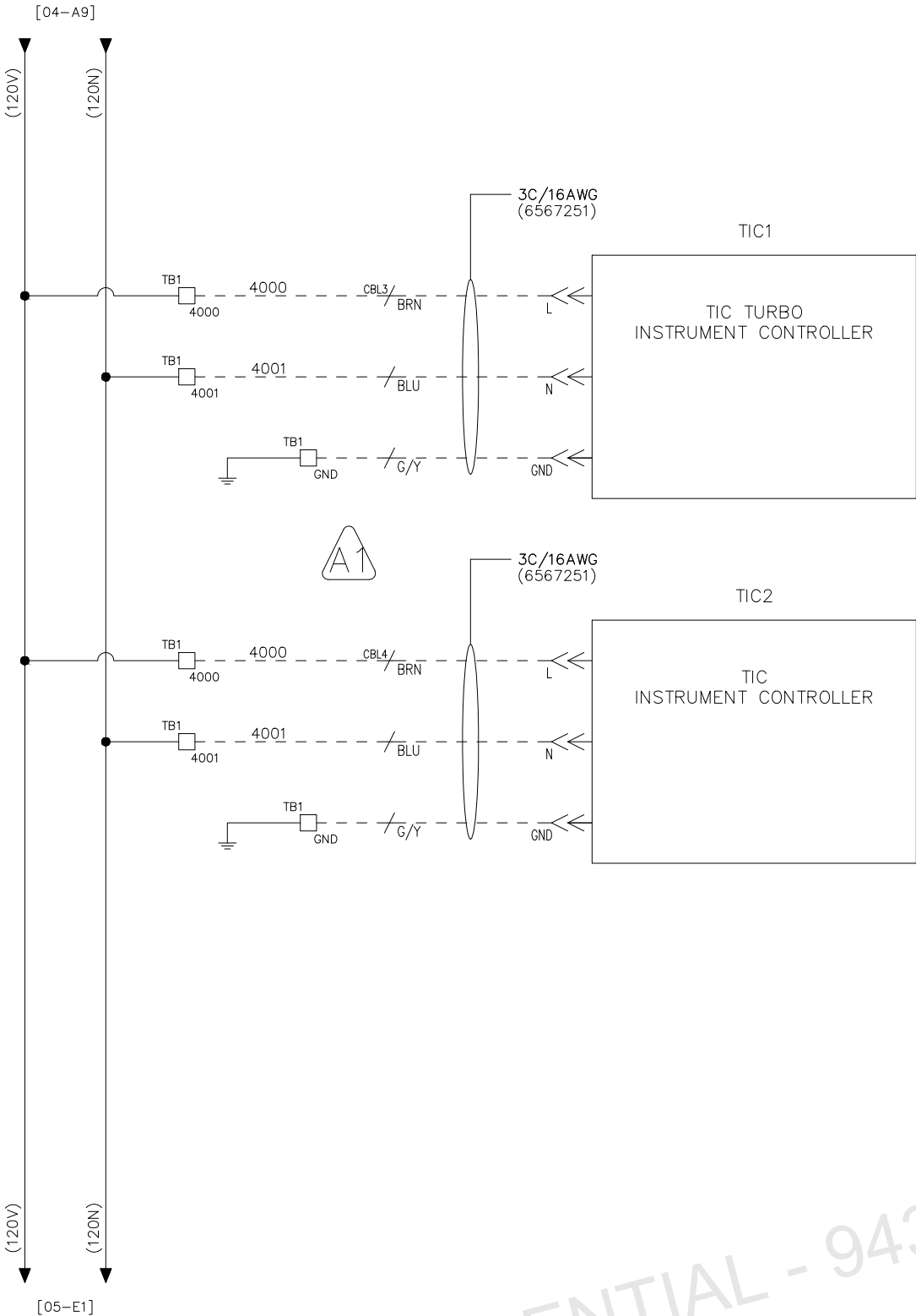
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CUSTOMER SUPPLIED
115VAC/1PH/60HZ



RV3 BACKING PUMP
115 VAC
300W
4.4 FLA
1760 RPM

mXDS3s BACKING PUMP
115 VAC
210W
1.8 FLA
3600 RPM

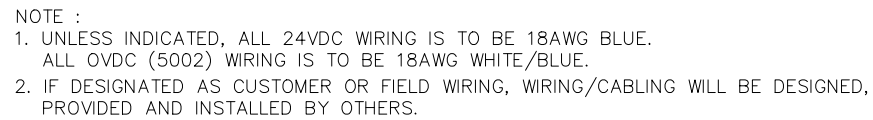
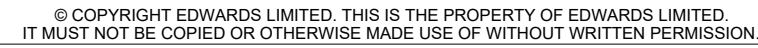


- NOTE :
- UNLESS INDICATED, ALL 24VDC WIRING IS TO BE 18AWG BLUE.
ALL OVDC (5002) WIRING IS TO BE 18AWG WHITE/BBLUE.
 - IF DESIGNATED AS CUSTOMER OR FIELD WIRING, WIRING/CABLING WILL BE DESIGNED,
PROVIDED AND INSTALLED BY OTHERS.


—————	SOLID LINES REPRESENT INTERNAL WIRING TO THE ENCLOSURE
-----	DASHED LINES REPRESENT EXTERNAL TO THE ENCLOSURE NOT FIELD WIRING
-----	PHANTOM LINES REPRESENT CUSTOMER EQUIPMENT/DEVICE BOUNDARY
-----	CENTER LINE REPRESENTS CUSTOMER OR FIELD WIRING

ORIGINAL SCALE: X		TOLERANCES		NRYBTQ400	
DRAWN BY: MCCOMBS		ALL DIMS IN Inches		DOCUMENT NUMBER	
DATE: 2024-09-04		X ± 0.05		301279355	
TECHNICAL: ---		XX ± 0.02		COMPONENT	
APPROVED DATE: ---		XXX ± 0.005		ECP FOR COSMOS 12, 120VAC	
		ANGLES ± 0°-30° UNLESS OTHERWISE STATED		MATERIAL	
		MACHINED COMPONENTS		N/A	
		SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED		FINISH	
		AUTOCAD DRAWING		N/A	
				SIZE	
				DRAWING NUMBER	
				SHEET No.	
				ISSUE	
				D	
				6565942	
				4 of 10	
				A0	

REVISED BY: x x x
REASON:
DATE:

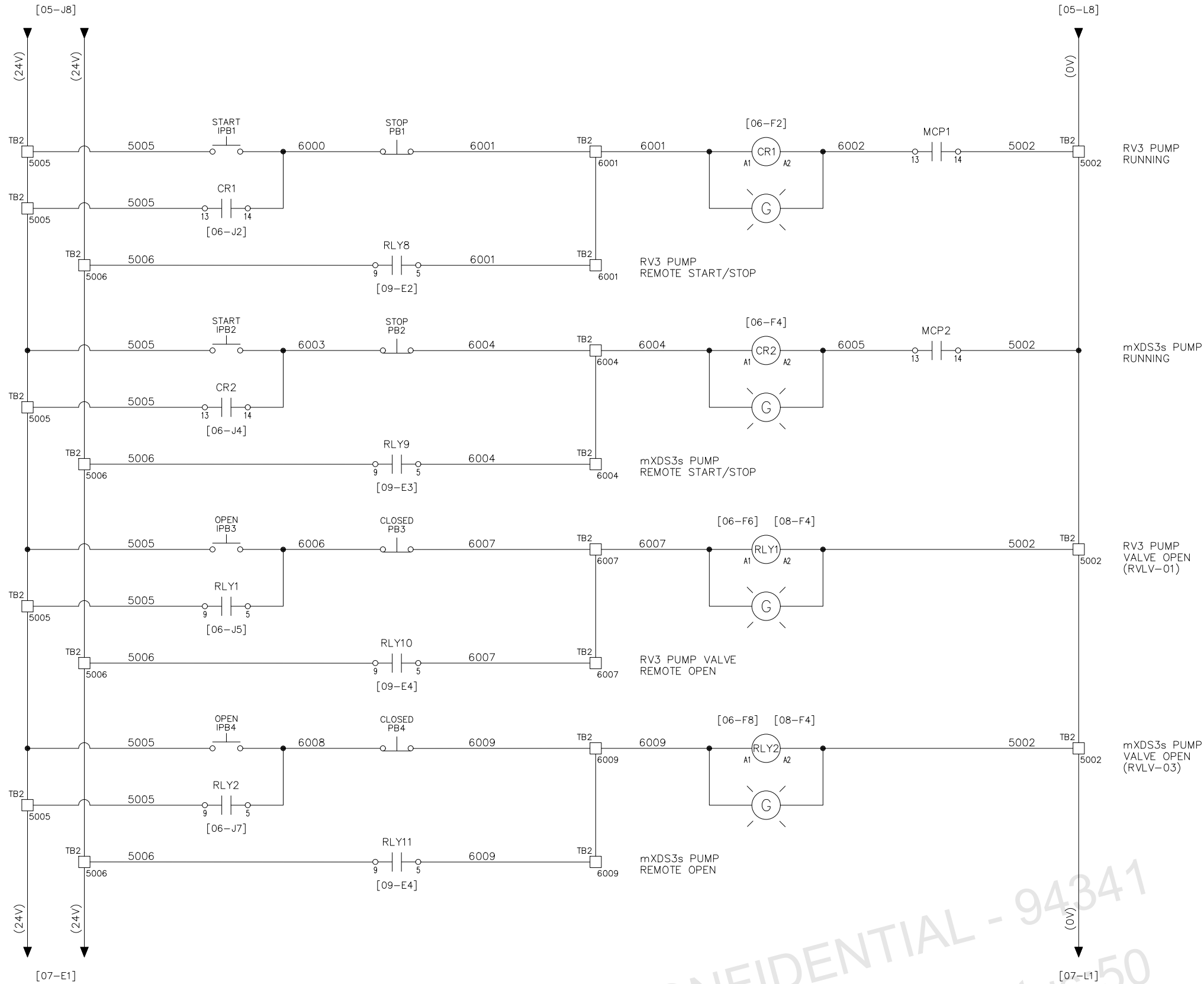


_____ SOLID LINES REPRESENT INTERNAL WIRING TO THE ENCLOSURE
 - - - - - DASHED LINES REPRESENT EXTERNAL TO THE ENCLOSURE NOT FIELD WIRING
 _____ PHANTOM LINES REPRESENT CUSTOMER EQUIPMENT/DEVICE BOUNDARY
 - - - - - CENTER LINE REPRESENTS CUSTOMER OR FIELD WIRING

ORIGINAL SCALE: X DRAWN BY: MCCOMBS DATE: 2024-09-04 TECHNICAL: ---		<u>TOLERANCES</u> ALL DIMS IN Inches X ± 0.05 XX ± 0.02 XXX ± 0.005 ANGLES ±0°-30' UNLESS OTHERWISE STATED		NRYBQTQ400 DOCUMENT NUMBER 301279355 COMPONENT ECP FOR COSMOS 12, 120VAC MATERIAL N/A FINISH N/A		REVISED BY: x x x EC NO.: --- DATE: ---
APPROVED DATE: --- 		<u>MACHINED COMPONENTS</u> SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED. AUTOCAD DRAWING		SIZE D		
				DRAWING NUMBER 6565942		
				SHEET No. 5 of 10		ISSUE AO



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ALL 0VDC (5002) WIRING IS TO BE 18AWG WHITE/BLUE.
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—————	SOLID LINES REPRESENT INTERNAL WIRING TO THE ENCLOSURE
-----	DASHED LINES REPRESENT EXTERNAL TO THE ENCLOSURE NOT FIELD WIRING
—————	PHANTOM LINES REPRESENT CUSTOMER EQUIPMENT/DEVICE BOUNDARY
-----	CENTER LINE REPRESENTS CUSTOMER OR FIELD WIRING

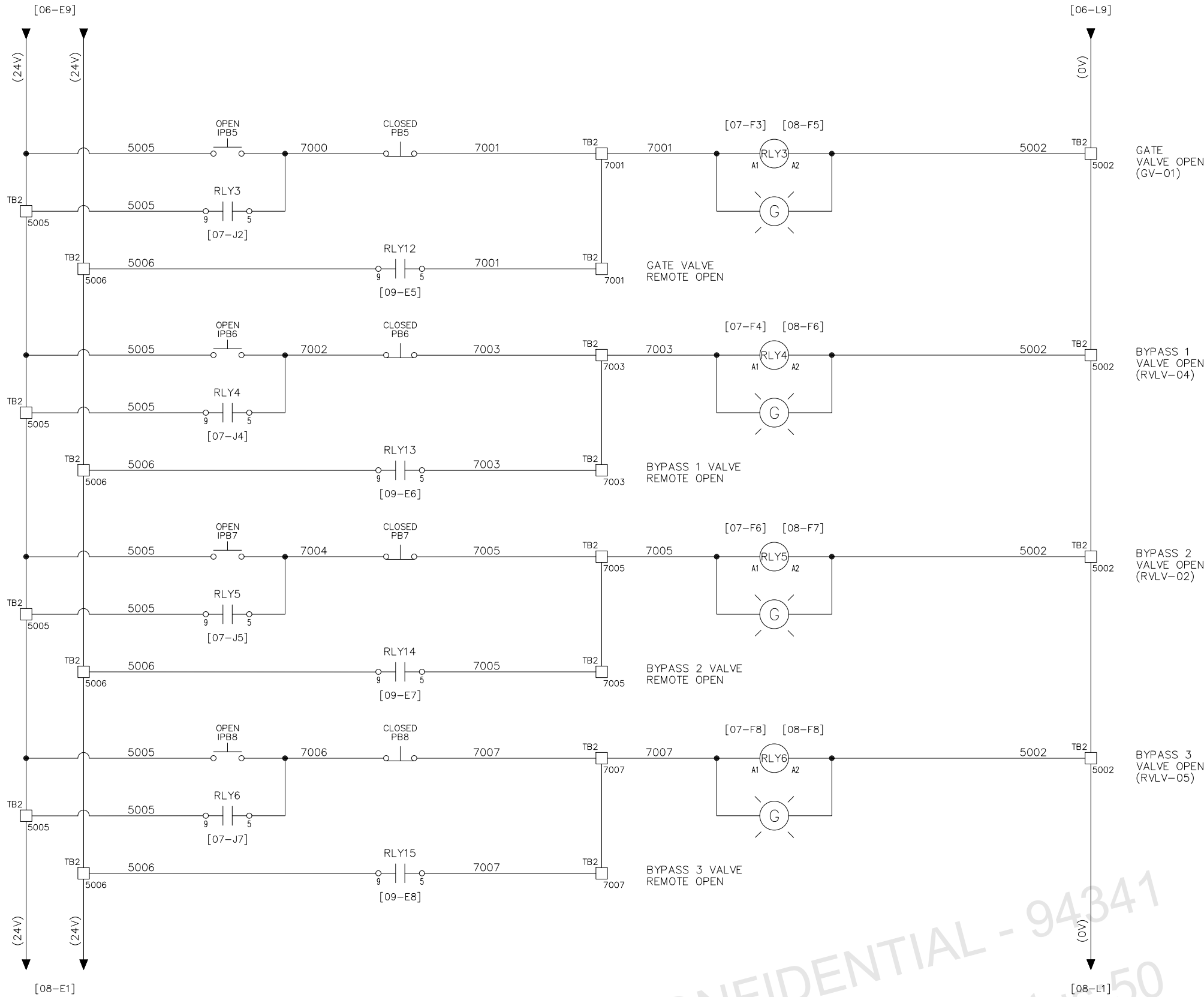
ORIGINAL SCALE: X	TOLERANCES
DRAWN BY: MCCOMBS	ALL DIMS IN Inches
DATE: 2024-09-04	X ± 0.05
TECHNICAL: ---	XX ± 0.02
APPROVED DATE: ---	XXX ± 0.005
	ANGLES ± 0°-30' UNLESS OTHERWISE STATED
	MACHINED COMPONENTS
	SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED
	AUTOCAD DRAWING

NRYBTQ400		
DOCUMENT NUMBER		
301279355		
COMPONENT		
ECP FOR COSMOS 12, 120VAC		
MATERIAL		
N/A		
FINISH		
N/A		
SIZE	DRAWING NUMBER	SHEET No.
D	6565942	6 of 10
		ISSUE
		A0

REVISED BY: x x x
ECCN: ---
DATE: ---



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ALL 0VDC (5002) WIRING IS TO BE 18AWG WHITE/BLUE.
 - IF DESIGNATED AS CUSTOMER OR FIELD WIRING, WIRING/CABLING WILL BE DESIGNED, PROVIDED AND INSTALLED BY OTHERS.

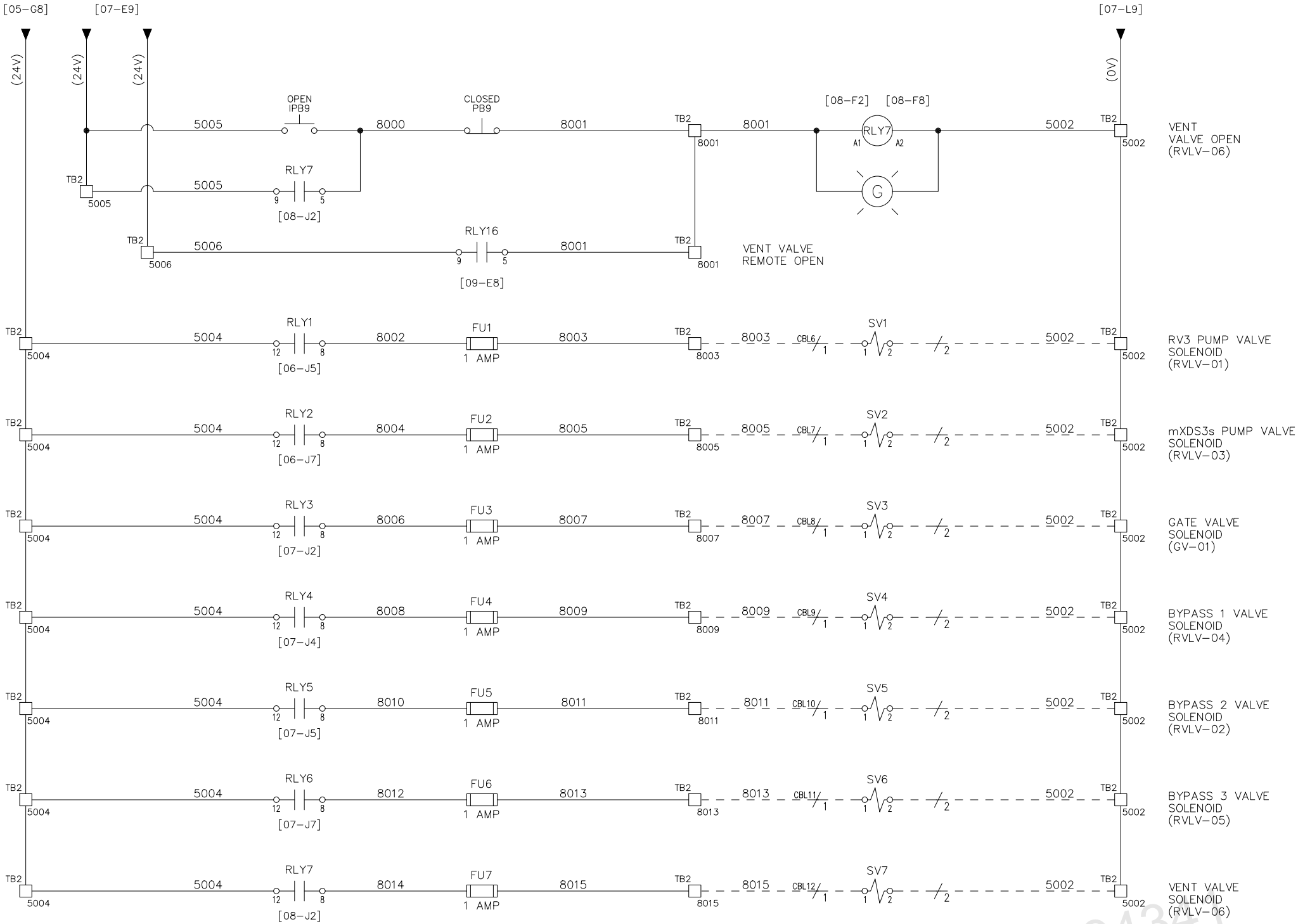
—————	SOLID LINES REPRESENT INTERNAL WIRING TO THE ENCLOSURE
-----	DASHED LINES REPRESENT EXTERNAL TO THE ENCLOSURE NOT FIELD WIRING
—————	PHANTOM LINES REPRESENT CUSTOMER EQUIPMENT/DEVICE BOUNDARY
-----	CENTER LINE REPRESENTS CUSTOMER OR FIELD WIRING

ORIGINAL SCALE: X		TOLERANCES		DOCUMENT NUMBER	
DRAWN BY: MCCOMBS		ALL DIMS IN Inches		301279355	
DATE: 2024-09-04		X ± 0.05		COMPONENT	
TECHNICAL: ---		XX ± 0.02		ECP FOR COSMOS 12, 120VAC	
APPROVED DATE: ---		XXX ± 0.005		MATERIAL	
		ANGLES ± 0°-30' UNLESS OTHERWISE STATED		N/A	
		MACHINED COMPONENTS		FINISH	
		SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED		N/A	
		AUTOCAD DRAWING		SIZE	
				DRAWING NUMBER	
				SHEET No.	
				ISSUE	
				D	
				6565942	
				7 of 10	
				A0	

REVISED BY:
REASON:
DATE:



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NOTE :
1. UNLESS INDICATED, ALL 24VDC WIRING IS TO BE 18AWG BLUE.
ALL OVDC (5002) WIRING IS TO BE 18AWG WHITE/BLUE.
2. IF DESIGNATED AS CUSTOMER OR FIELD WIRING, WIRING/CABLING WILL BE DESIGNED,
PROVIDED AND INSTALLED BY OTHERS.

— SOLID LINES REPRESENT INTERNAL WIRING TO THE ENCLOSURE
- - - DASHED LINES REPRESENT EXTERNAL TO THE ENCLOSURE NOT FIELD WIRING
- - - PHANTOM LINES REPRESENT CUSTOMER EQUIPMENT/DEVICE BOUNDARY
- - - CENTER LINE REPRESENTS CUSTOMER OR FIELD WIRING

ORIGINAL SCALE: X	TOLERANCES
DRAWN BY: MCCOMBS	ALL DIMS IN Inches
DATE: 2024-09-04	X ± 0.05
TECHNICAL: - - - -	XX ± 0.02
APPROVED DATE: - - - -	XXX ± 0.005
	ANGLES ± 0°-30° UNLESS OTHERWISE STATED
	MACHINED COMPONENTS
	SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED
	AUTOCAD DRAWING

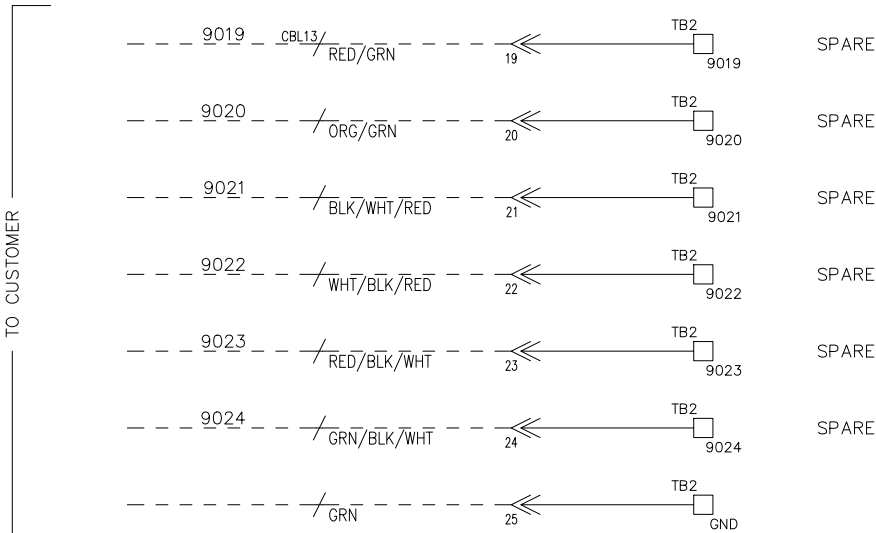
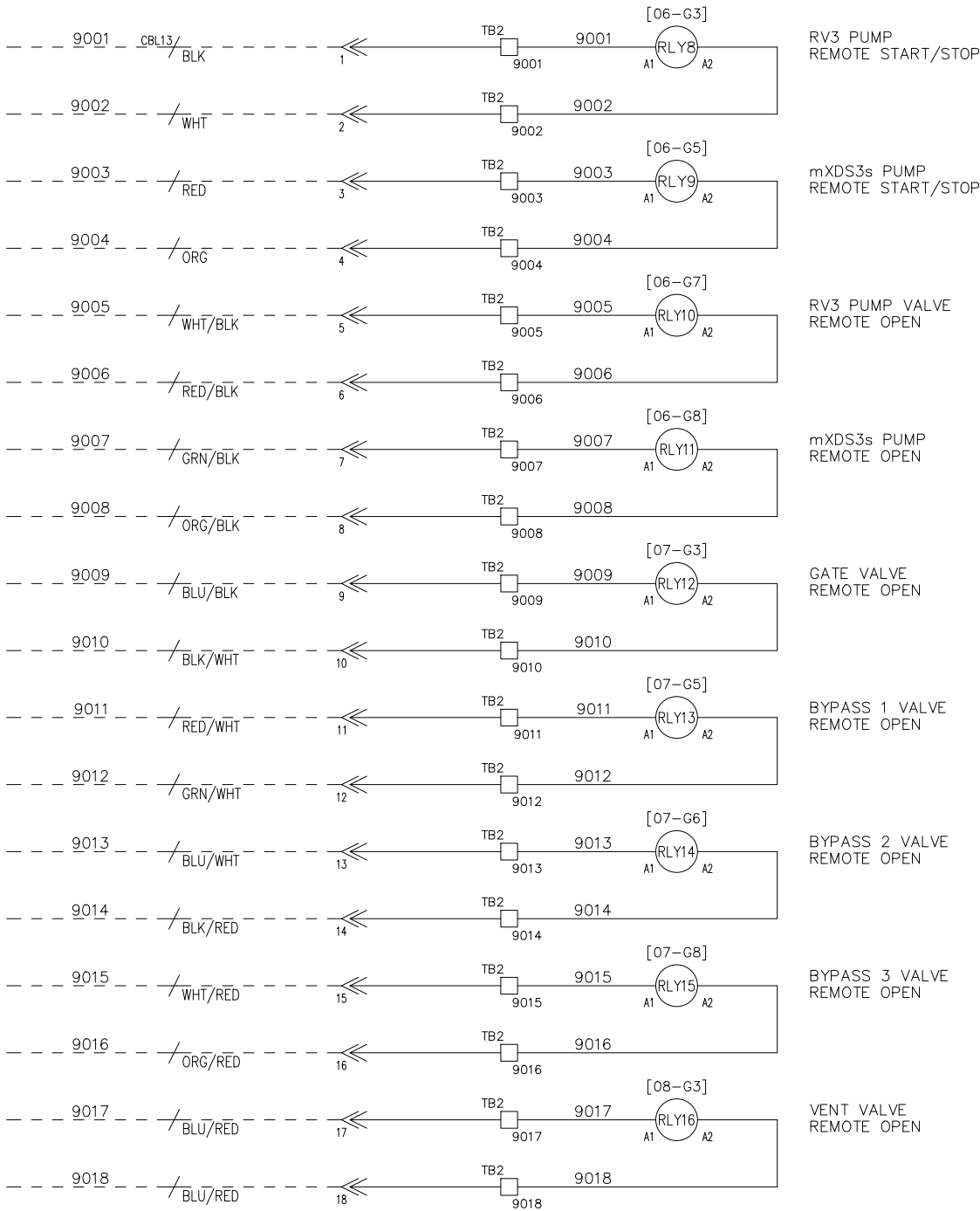
NRYBTQ400			
DOCUMENT NUMBER			
301279355			
COMPONENT			
ECP FOR COSMOS 12, 120VAC			
MATERIAL			
N/A			
FINISH			
N/A			
SIZE	DRAWING NUMBER	SHEET No.	ISSUE
D	6565942	8 of 10	A0

REVISED BY: x x x
REWORK ID: 10

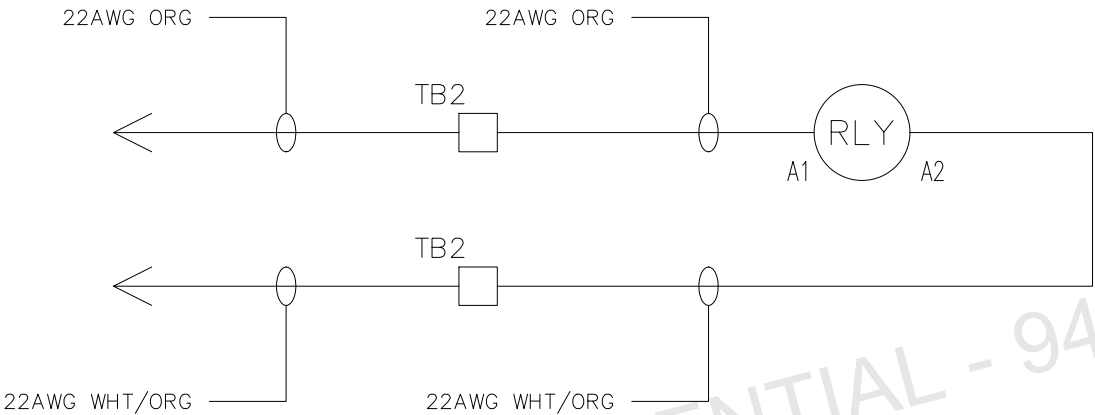


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NOTE: CABLE 13 REFERENCE ONLY (BELDEN PN:8459 22AWG/25 CONDUCTOR)



TYPICAL WIRE COLOR CODE AND WIRE GAUGE FOR REMOTE RELAYS



- NOTE :
- UNLESS INDICATED, ALL 24VDC WIRING IS TO BE 18AWG BLUE.
ALL OVDC (5002) WIRING IS TO BE 18AWG WHITE/BLE.
 - IF DESIGNATED AS CUSTOMER OR FIELD WIRING, WIRING/CABLING WILL BE DESIGNED,
PROVIDED AND INSTALLED BY OTHERS.

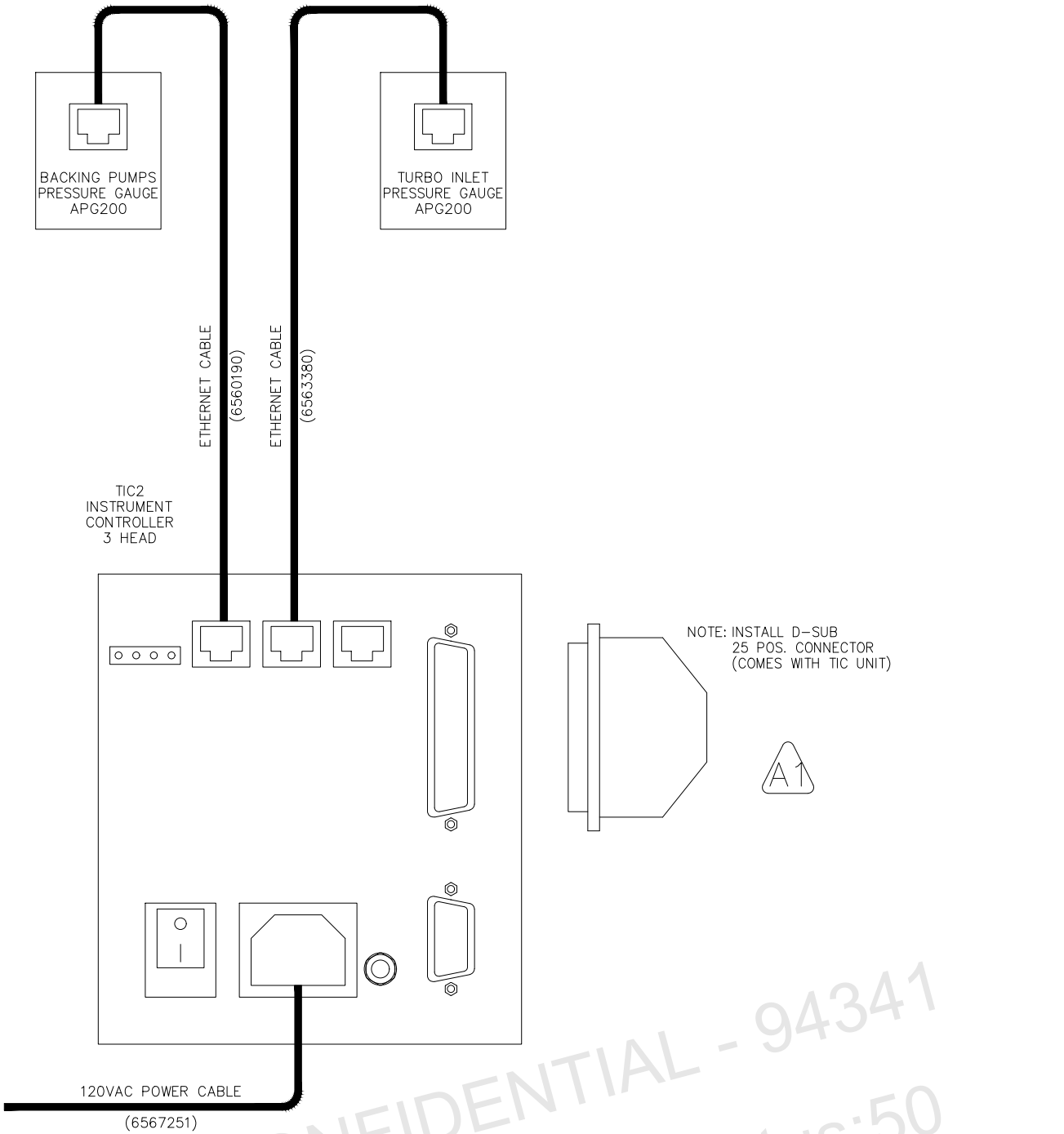
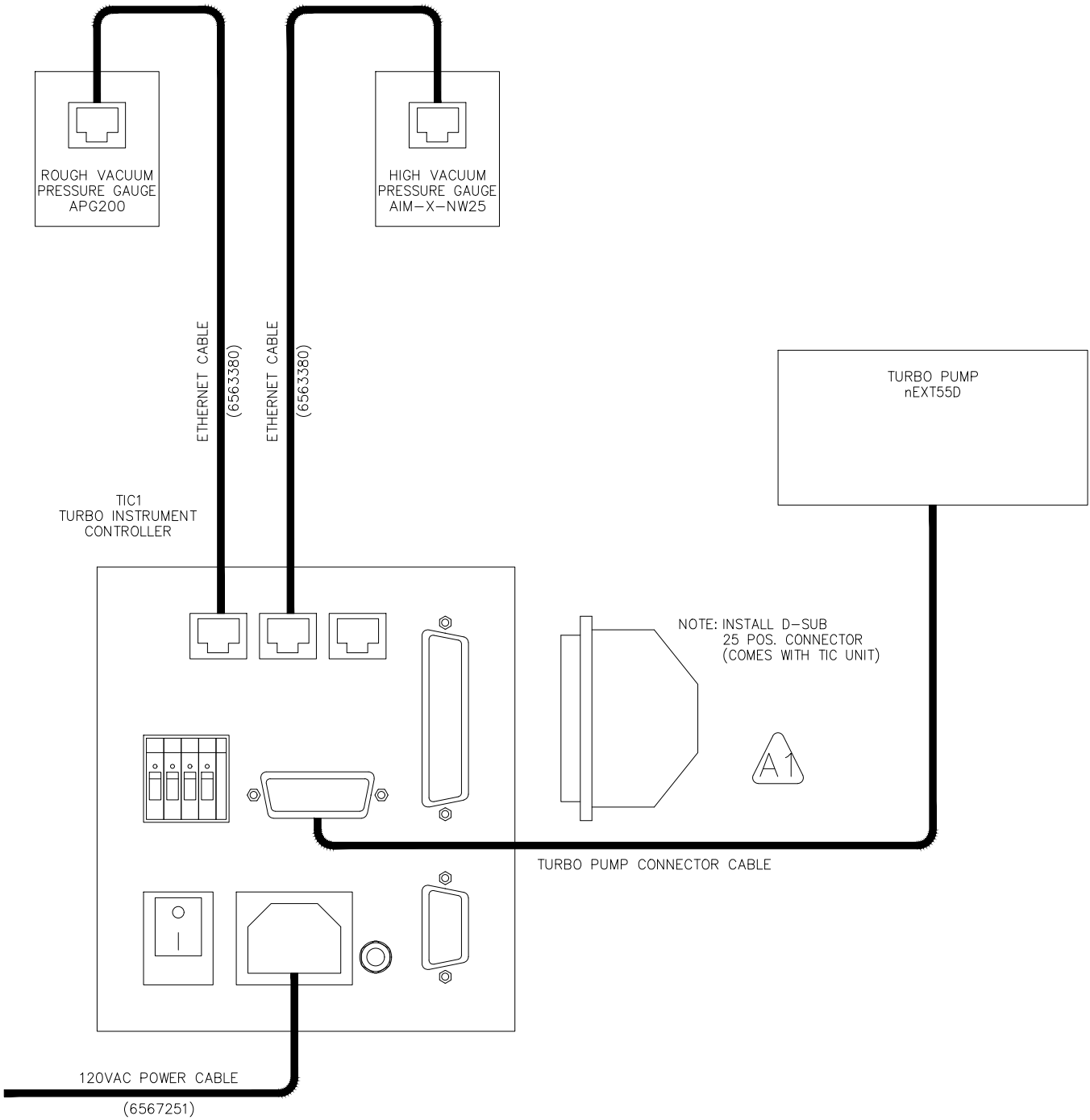
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ORIGINAL SCALE: X		TOLERANCES		DOCUMENT NUMBER	
DRAWN BY: MCCOMBS		ALL DIMS IN Inches		301279355	
DATE: 2024-09-04		X ± 0.05		COMPONENT	
TECHNICAL: -----		XX ± 0.02		ECP FOR COSMOS 12, 120VAC	
APPROVED DATE: -----		ANGLES ± 0°-30' UNLESS OTHERWISE STATED		MATERIAL	
MACHINED COMPONENTS		FINISH		N/A	
SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED.		SIZE		DRAWING NUMBER	
AUTOCAD DRAWING		D		6565942	
		SHEET No.		9 of 10	
		ISSUE		A0	

REVISED BY: x x x
REVISION: 1
DATE: 10/10/2024



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ORIGINAL SCALE: X		TOLERANCES		DOCUMENT NUMBER	
DRAWN BY: MCCOMBS		ALL DIMS IN Inches		301279355	
DATE: 2024-09-04		X ± 0.05		ECP FOR COSMOS 12, 120VAC	
TECHNICAL: ---		XX ± 0.02		N/A	
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		ANGLES ± 0°-30° UNLESS OTHERWISE STATED		N/A	
		MACHINED COMPONENTS		SIZE	
		SURFACE FINISH TO BE 125 MAX UNLESS OTHERWISE STATED		DRAWING NUMBER	
		AUTOCAD DRAWING		SHEET No.	
				ISSUE	
				D 6565942 10 of 10 A0	

REVISED BY: x x x
ECONOMY:
DATE:

ISSUE	ECO #	REASON FOR MOD	DATE	INSTGATOR
A0	138706	INITIAL ISSUE	2024-09-04	MCCOMBS
A1	139818	PG 1: UPDATED BOM ITEMS 16, 17, 20 PG 3: UPDATED LAYOUT FOR RELAYS. MOVED GROUND TERMINALS AND AND REMOVED DINRAIL. PG 4: UPDATED 120VAC POWER CABLES. PG 5: UPDATED TERMINALS & DEVICE ID'S. PG 6: UPDATED TERMINALS & PUSH BUTTON DESCRIPTIONS. PG 7: UPDATED TERMINALS & PUSH BUTTON DESCRIPTIONS. PG 8: UPDATED TERMINALS & PUSH BUTTON DESCRIPTIONS. PG 10: REMOVED LOGIC INTERFACE CABLE. ADDED 25 POS. D-SUB CONNECTORS.	2025-02-13	MCCOMBS
N-CODE HISTORY SHEET				

CONFIDENTIAL - 94341
VS:A1/TID:000/Status:50