

REV	DATE	DESCRIPTION	INI

TABLE OF CONTENTS

SH	FILENAME	DWGDESC
0	6194E00	TABLE OF CONTENTS
1	6194E01	460VAC POWER DISTRIBUTION
2	6194E02	460VAC POWER DISTRIBUTION
3	6194E03	120VAC / 24VDC DISTRIBUTION
4	6194E04	SAFETY
5	6194E05	DOOR SAFETY
6	6194E06	PLC I/O
7	6194E07	PLC I/O
8	6194E08	PLC I/O
9	6194E09	PLC I/O
10	6194E10	PLC I/O
11	6194E11	PLC I/O
12	6194E12	PLC I/O
13	6194E13	PLC I/O
14	6194E14	COMMUNICATIONS DIAGRAM
15	6194E15	JUNCTION BOX
16	6194E16	SPARE SHEET
17	6194E17	SPARE SHEET
18	6194E18	ENCLOSURE LAYOUT
19	6194E19	ENCLOSURE CUTOUTS
20	6194E20	SUB –PANEL LAYOUT
21	6194E21	E–STOP STATIONS & TAGS
22	6194E22	SPARE SHEET
23	6194E23	BILL OF MATERIAL
24	6194E24	BILL OF MATERIAL

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

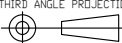
TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR .05°



THIRD ANGLE PROJECTION



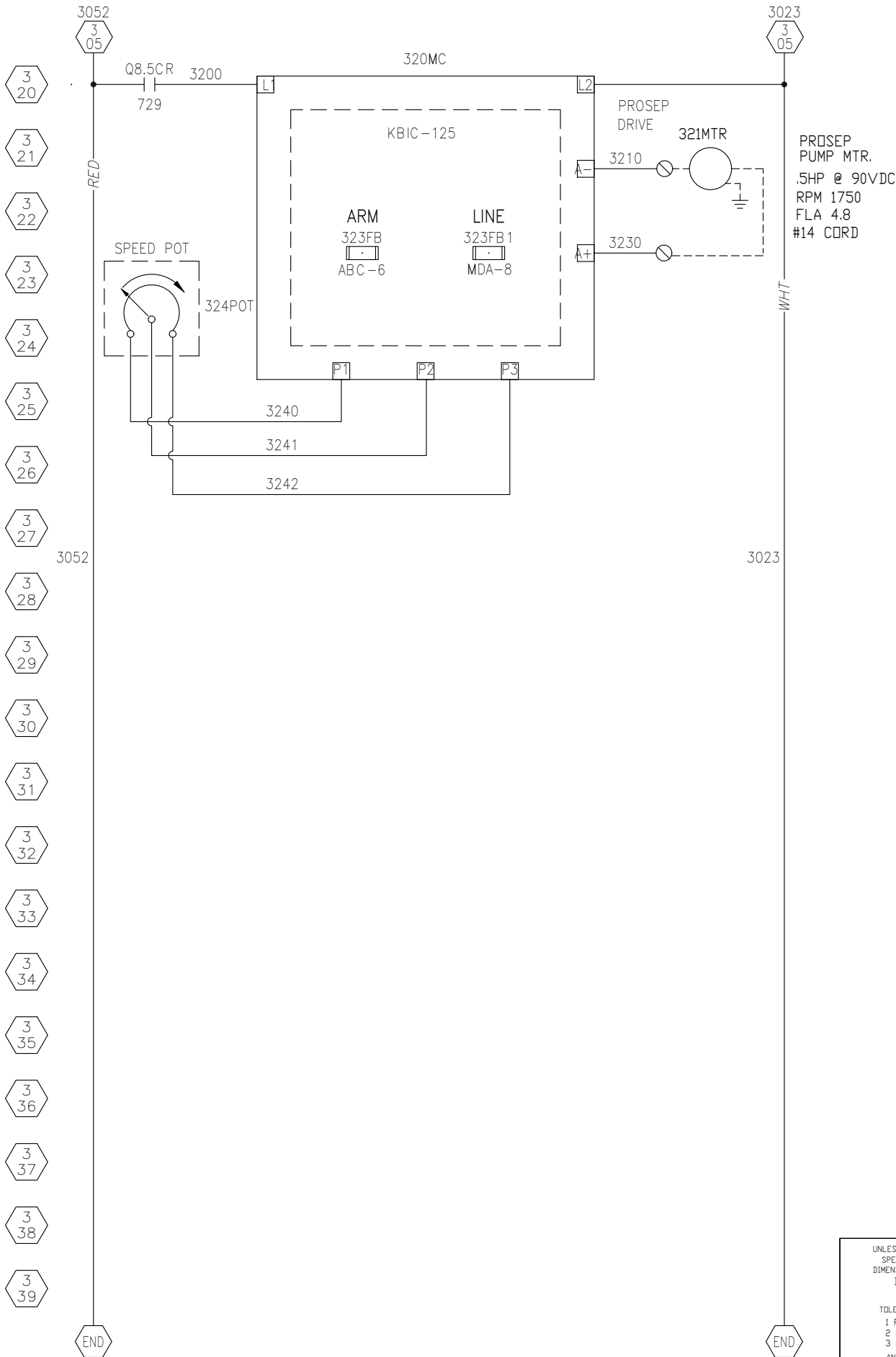
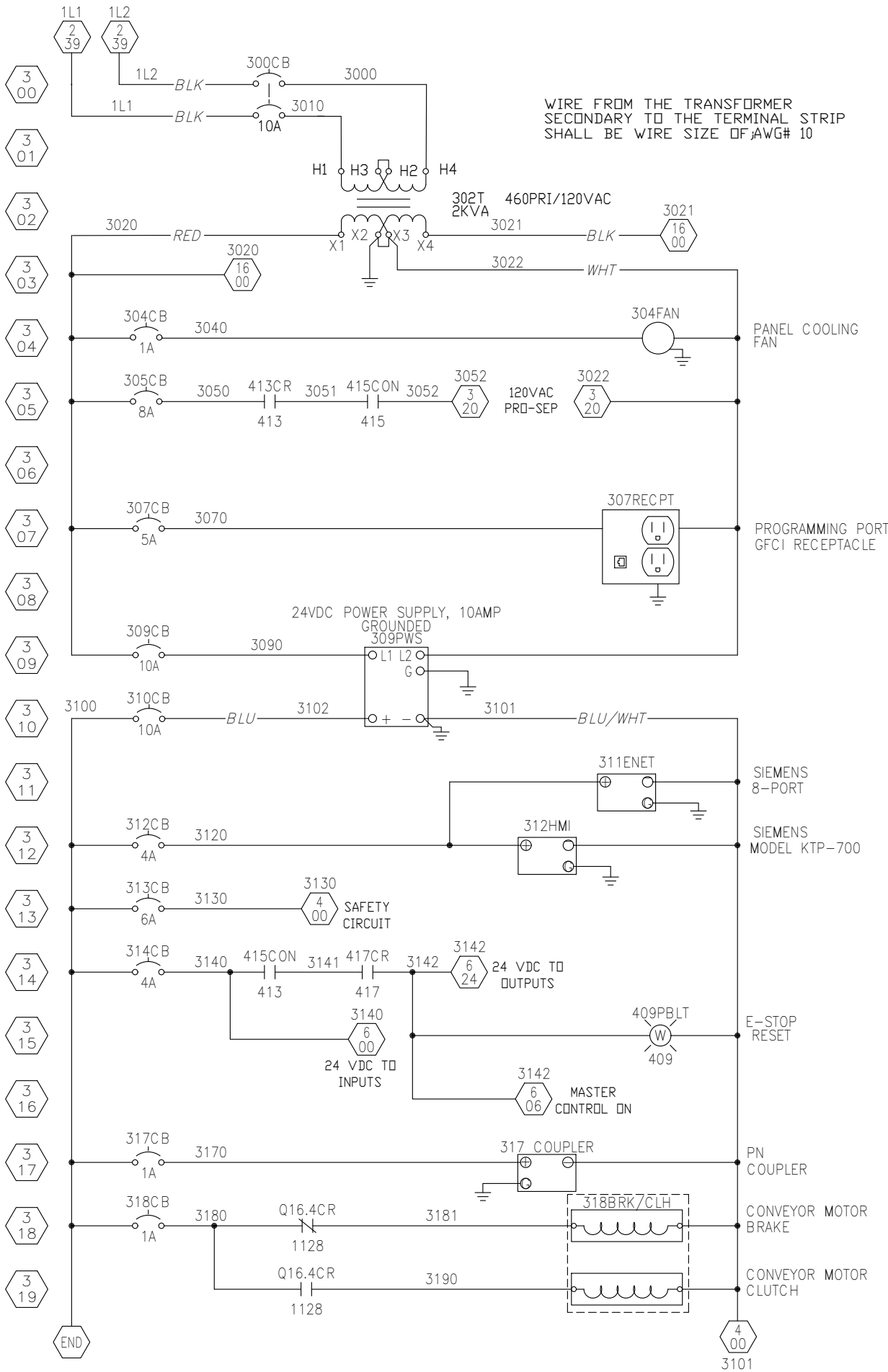
CLEANING TECHNOLOGIES GROUP

RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA

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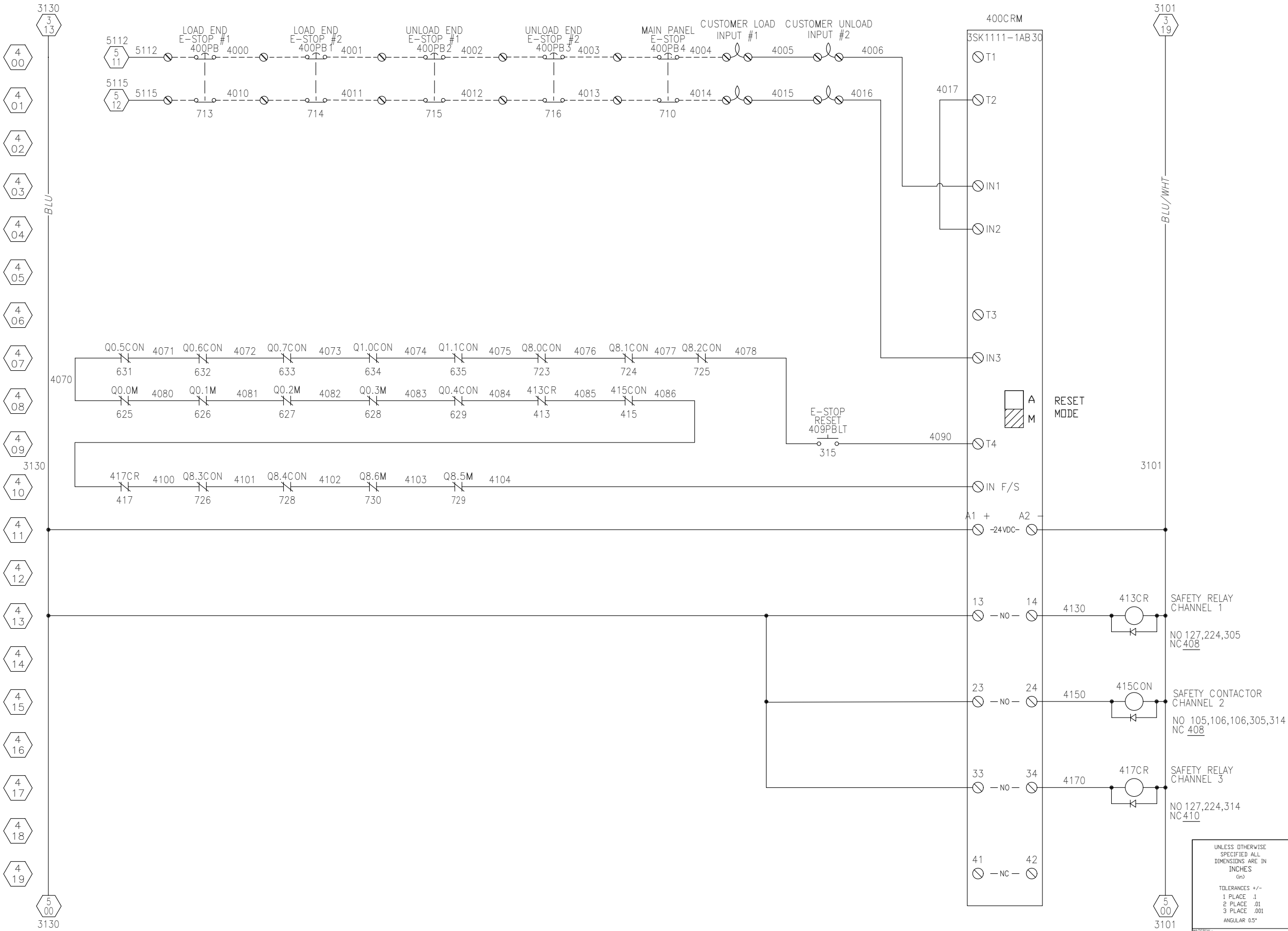
SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: DC	1/14/2022	DESCRIPTION: TABLE OF CONTENTS
CHECKED: PF	3/24/2022	SHEET: 0 OF 25
STATE:	DRAWING NUMBER: 6194E00	REVISION:

REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)			
TOLERANCES +/-		CLEANING TECHNOLOGIES GROUP	
1 PLACE .1		RANSOHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA	
2 PLACE .01		THIS DRAWING AND ALL INFORMATION THEREIN IS THE PROPERTY OF CTG. IT IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIES SHALL BE MADE WITHOUT THE AUTHORIZATION OF CTG. ALL COPIES ARE SUBJECT TO RETURN.	
3 PLACE .001			
ANGULAR 0.5°		SIGNATURE	
		DATE	
		MACHINE TYPE	
WATERAL:		CONVEYOR 80"	
		DESCRIPTION:	
		120VAC / 24VDC DISTRIBUTION	
THIRD ANGLE PROJECTION		SHEET:	
		3 OF 25 DO NOT SCALE DRAWING	
		DRAWING NUMBER	
		6194E03	
		REVISION	

REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR .05°

THIRD ANGLE PROJECTION

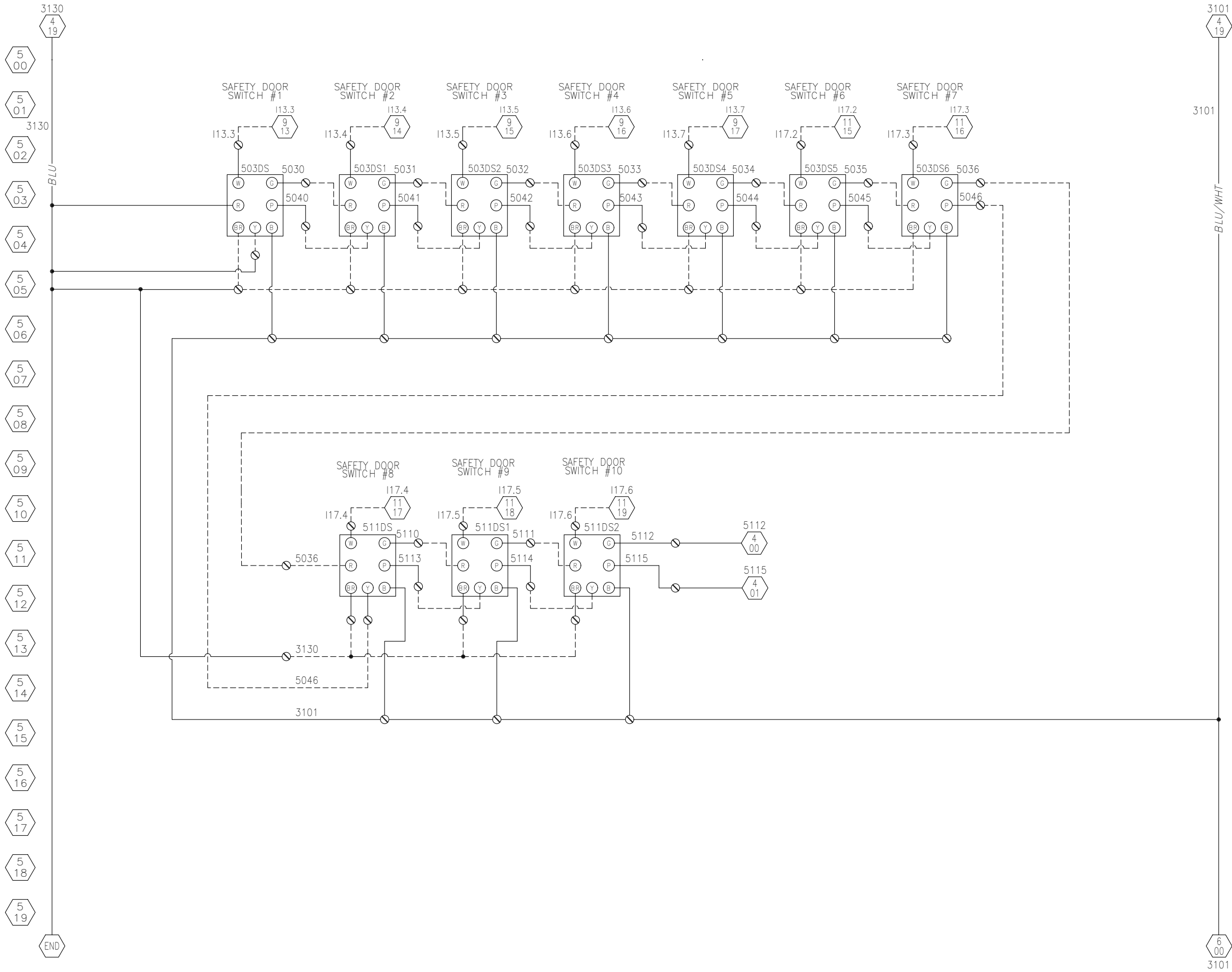
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	SAFETY
CHECKED: TK	6/10/2022	SHEET: 4 OF 25
STATE:	DRAWING NUMBER: 6194E04	REVISION

REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR 0.5°

CLEANING TECHNOLOGIES GROUP

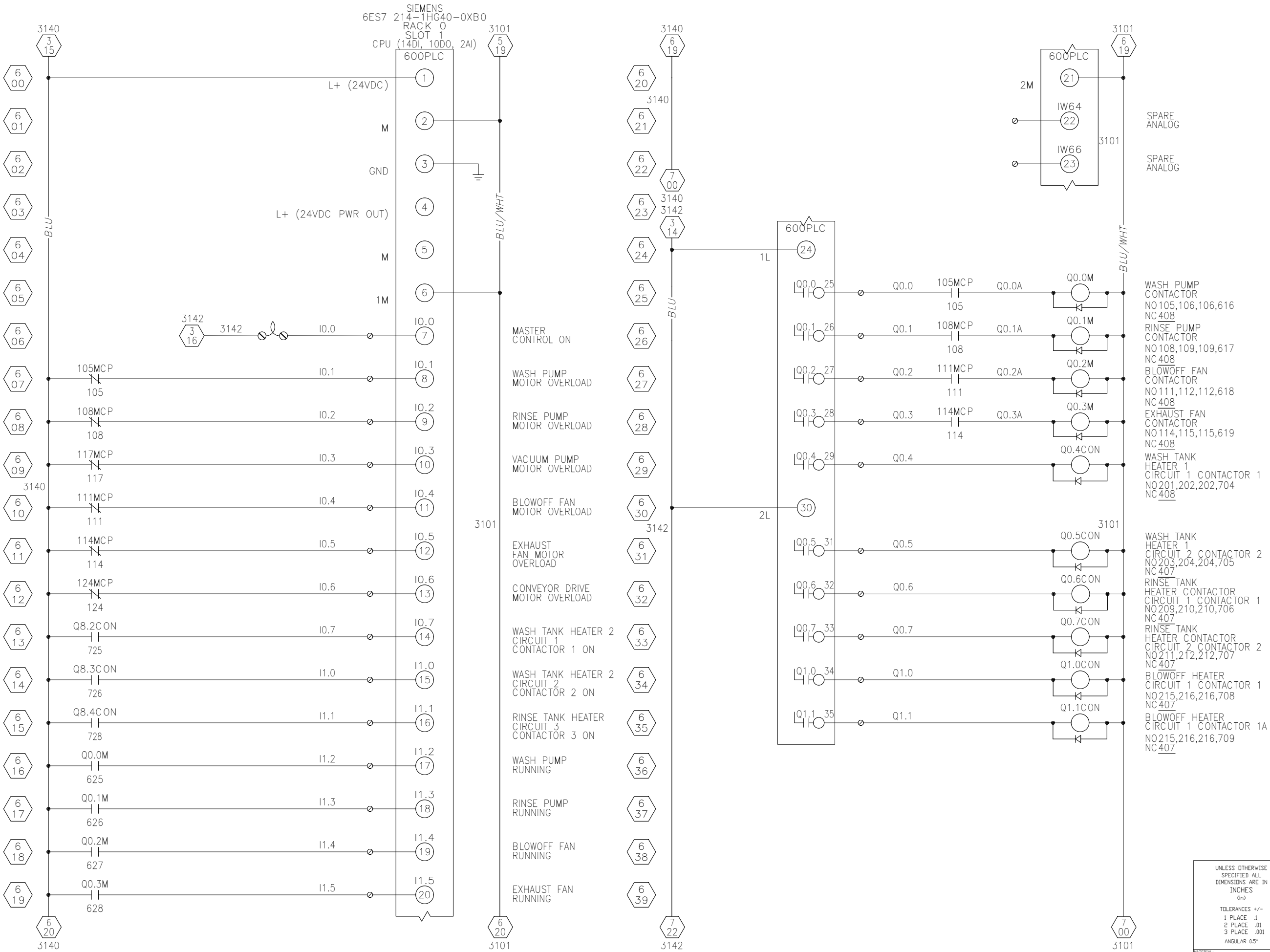
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	DESCRIPTION: DOOR SAFETY
CHECKED: TK	6/10/2022	SHEET: 5 OF 25
STATE:	DRAWING NUMBER: 6194E05	REVISION

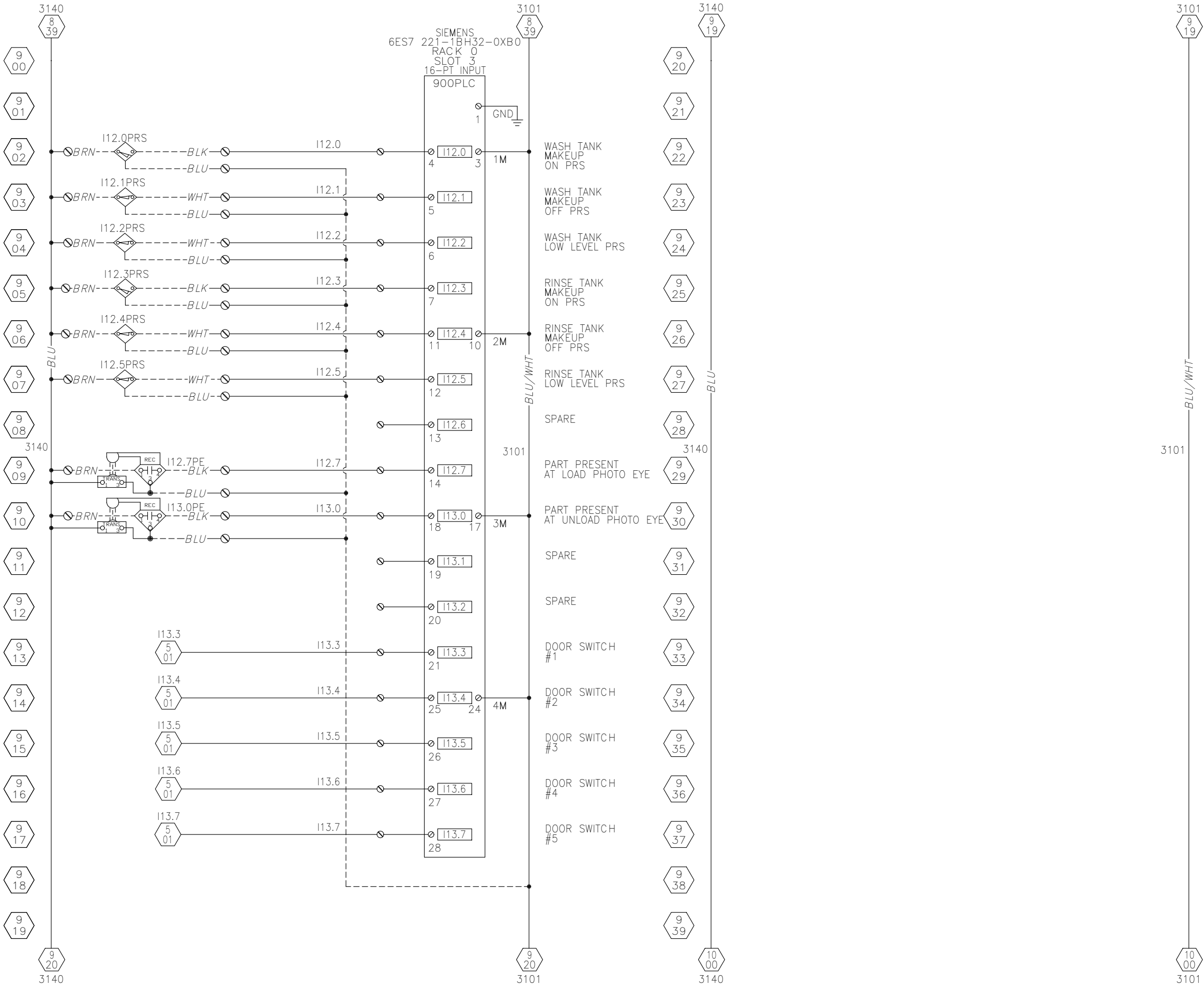
THIRD ANGLE PROJECTION

REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)		TOLERANCES +/- 1 PLACE .1 2 PLACE .01 3 PLACE .001 ANGULAR 0.5°	
THIRD ANGLE PROJECTION		SIGNATURE	
DESIGNED: JC		DATE: 1/14/2022	
DRAWN: JC		MACHINE TYPE: CONVEYOR 80"	
CHECKED: TK		DESCRIPTION: PLC I/O	
STATE:		SHEET: 6 OF 25	
		DO NOT SCALE DRAWING	
		DRAWING NUMBER: 6194E06	
		REVISION	

REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR 0.5°

CLEANING TECHNOLOGIES GROUP

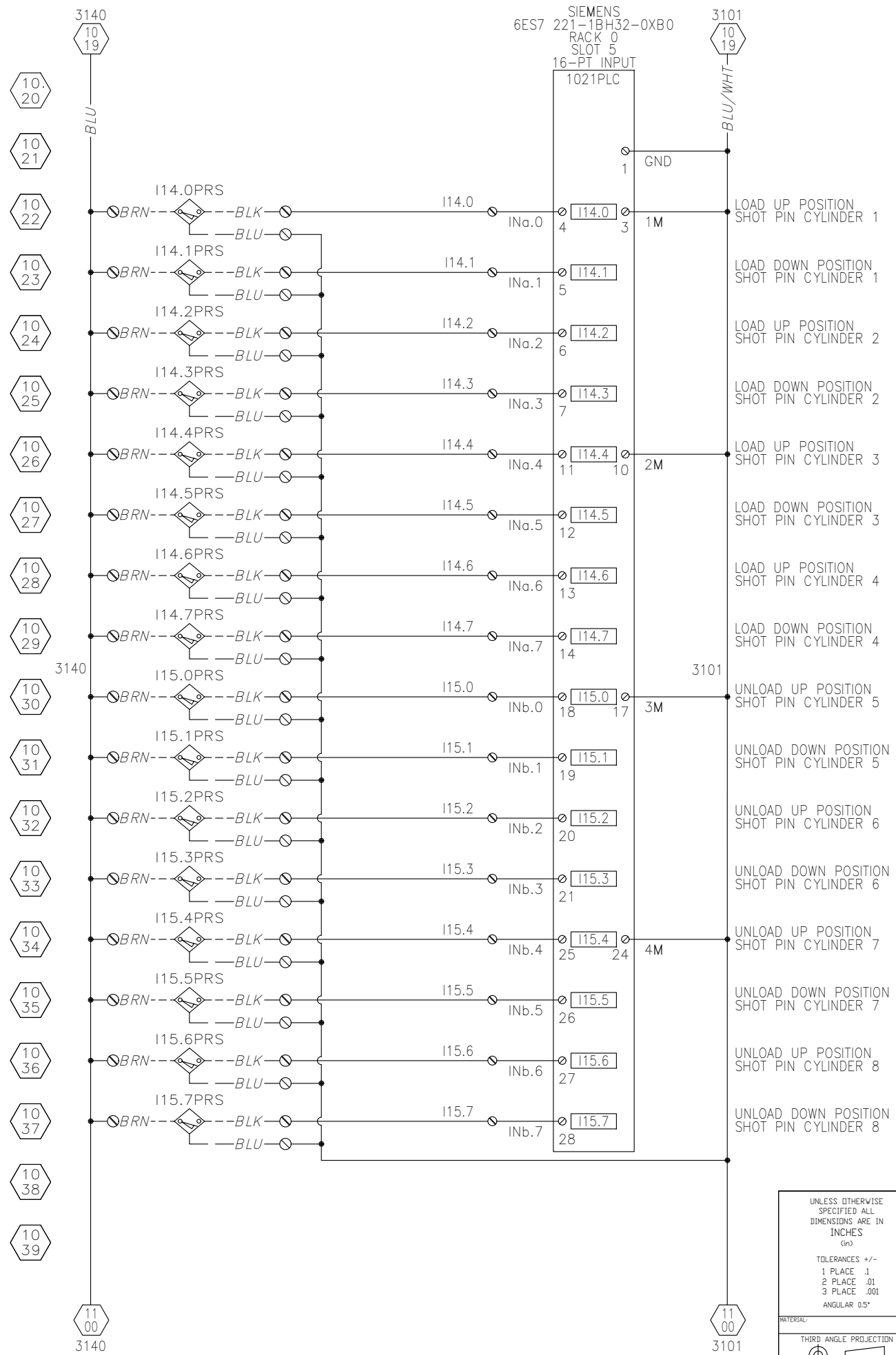
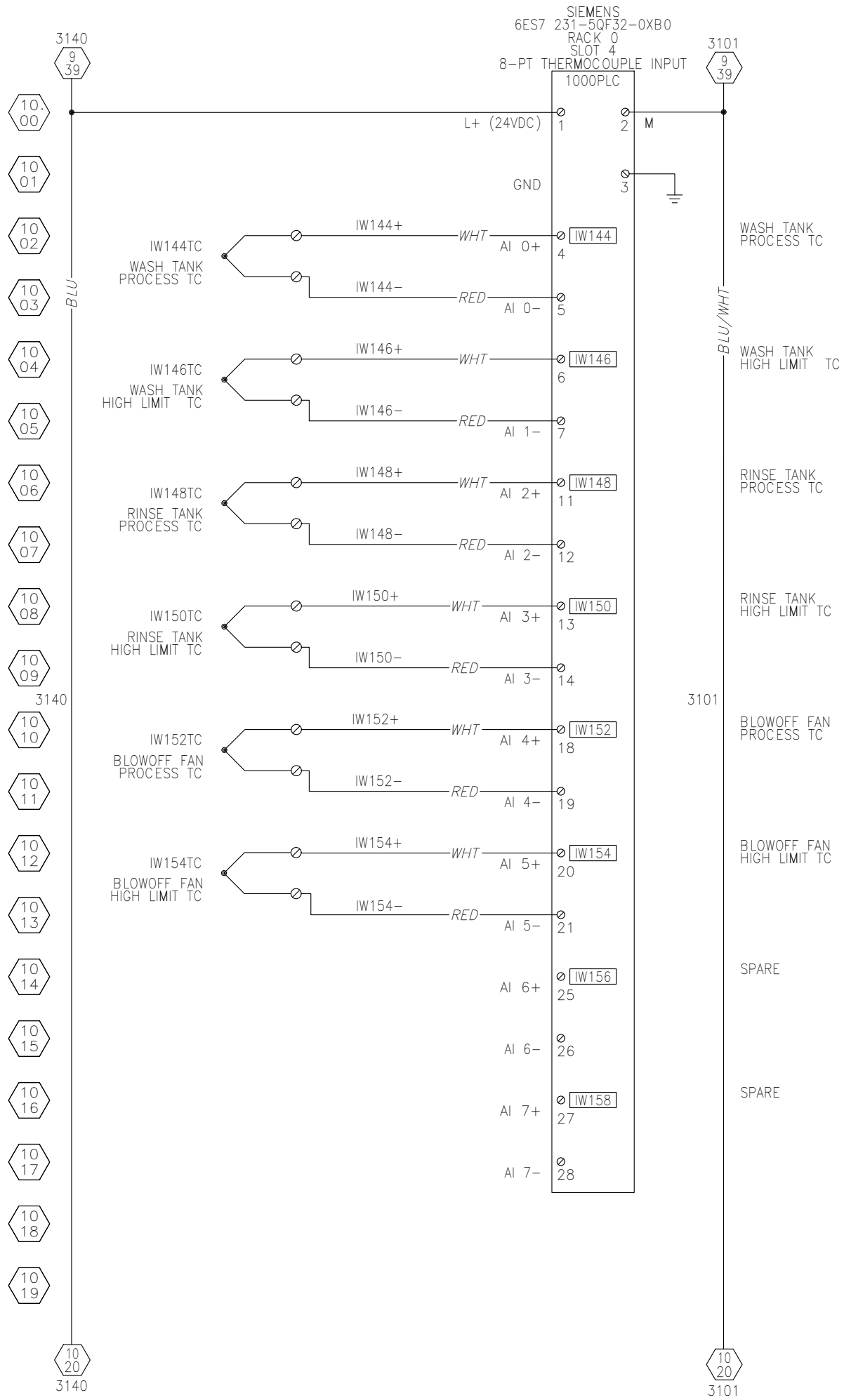
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	DESCRIPTION: PLC I/O
CHECKED: TK	6/10/2022	SHEET: 9 OF 25
STATE:	DRAWING NUMBER: 6194E09	REVISION:

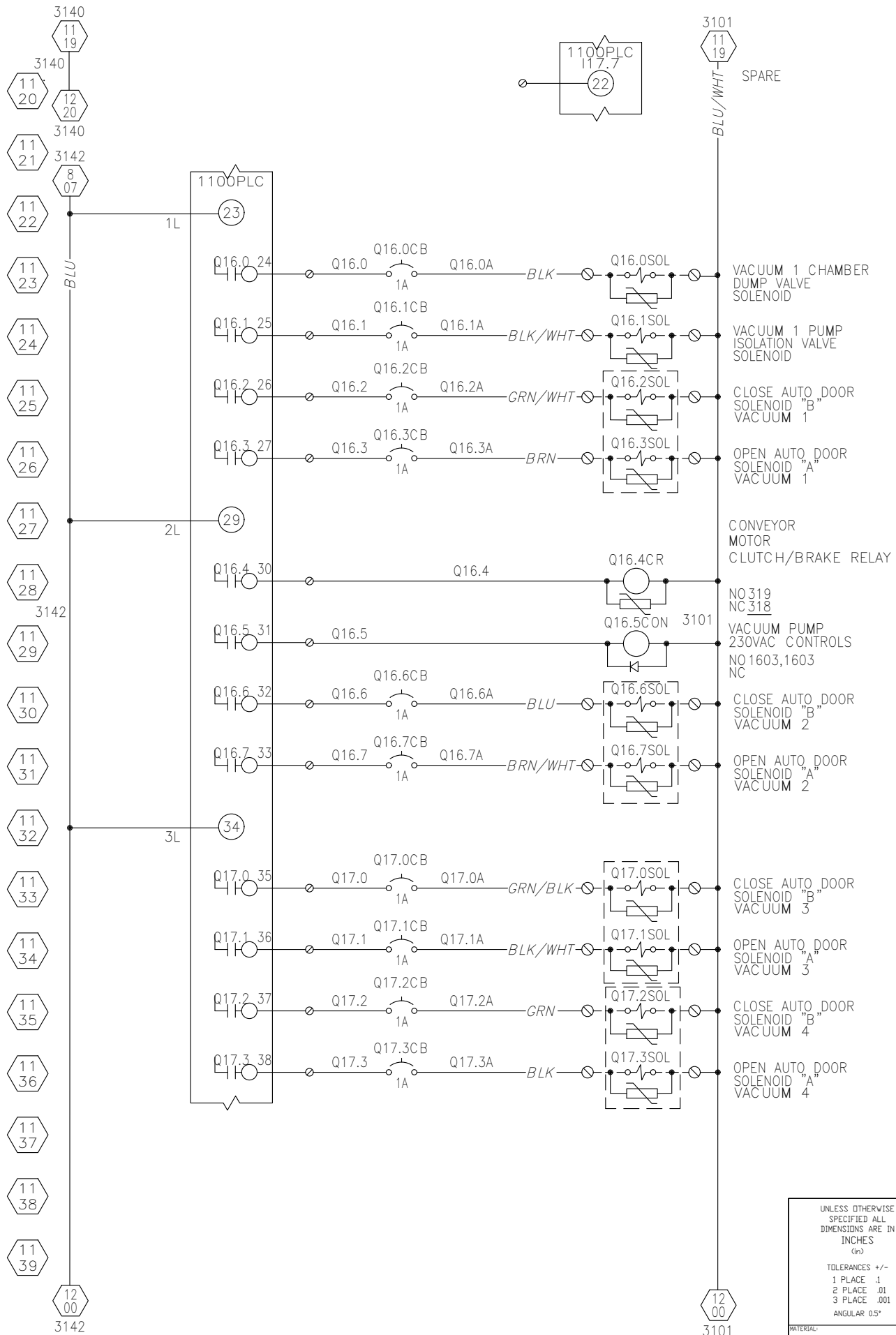
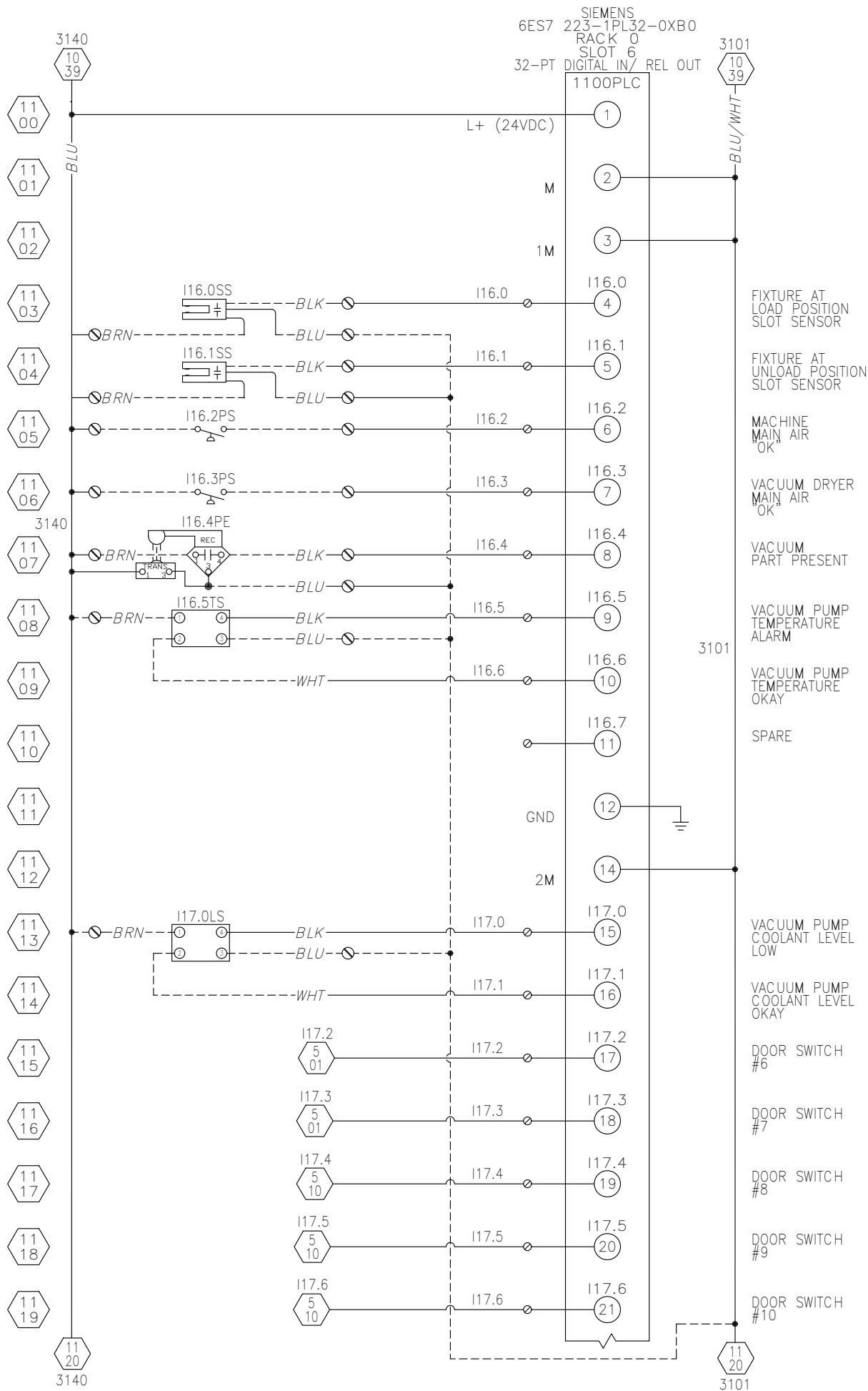
THIRD ANGLE PROJECTION

REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (m) TOLERANCES +/- 1 PLACE .1 2 PLACE .01 3 PLACE .001 ANGULAR 0.5°		 CLEANSonic TECHNOLOGIES GROUP RANSOHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF CTG. IT IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC. NO COPIES SHALL BE MADE WITHOUT THE AUTHORIZATION OF CTG. ALL COPIES ARE SUBJECT TO RETURN.			
		SIGNATURE	DATE		
		DESIGNED: PF	1/14/2022	MACHINE TYPE:	CONVEYOR 80"
		DRAWN: JC	6/9/2022	DESCRIPTION:	PLC 1/0
		CHECKED: TK	6/10/2022	SHEET: 10 OF 25	DO NOT SCALE DRAWING
		STATE:	DRAWING NUMBER:	6194E10	REVISION
MATERIAL: THIRD ANGLE PROJECTION 					

REV	DATE	DESCRIPTION	INI



D-SUB CONNECTOR (25-PIN)			
STATION	SOLENOID	WIRE COLOR	PIN #
1	SOL A	BLACK	1
1	SOL B	GREEN	14
2	SOL A	BLACK/WHITE	2
2	SOL B	GREEN/BLACK	15
3	SOL A	BROWN	3
3	SOL B	GREEN/WHITE	16
4	SOL A	BROWN/WHITE	4
4	SOL B	BLUE	17
5	SOL A	RED	5
5	SOL B	BLUE/WHITE	18
6	SOL A	RED/BLACK	6
6	SOL B	VIOLET	19
7	SOL A	RED/WHITE	7
7	SOL B	VIOLET/WHITE	20
8	SOL A	ORANGE/BLACK	8
8	SOL B	GRAY	21
9	SOL A	ORANGE	9
9	SOL B	GRAY/BLACK	22
10	SOL A	ORANGE/WHITE	10
10	SOL B	PINK	23
11	SOL A	YELLOW	11
11	SOL B	PINK/BLACK	24
12	SOL A	YELLOW/BLACK	12
12	SOL B	WHITE	25
ALL	COMMON	LIGHT GREEN	13

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR 0.5°

THIRD ANGLE PROJECTION

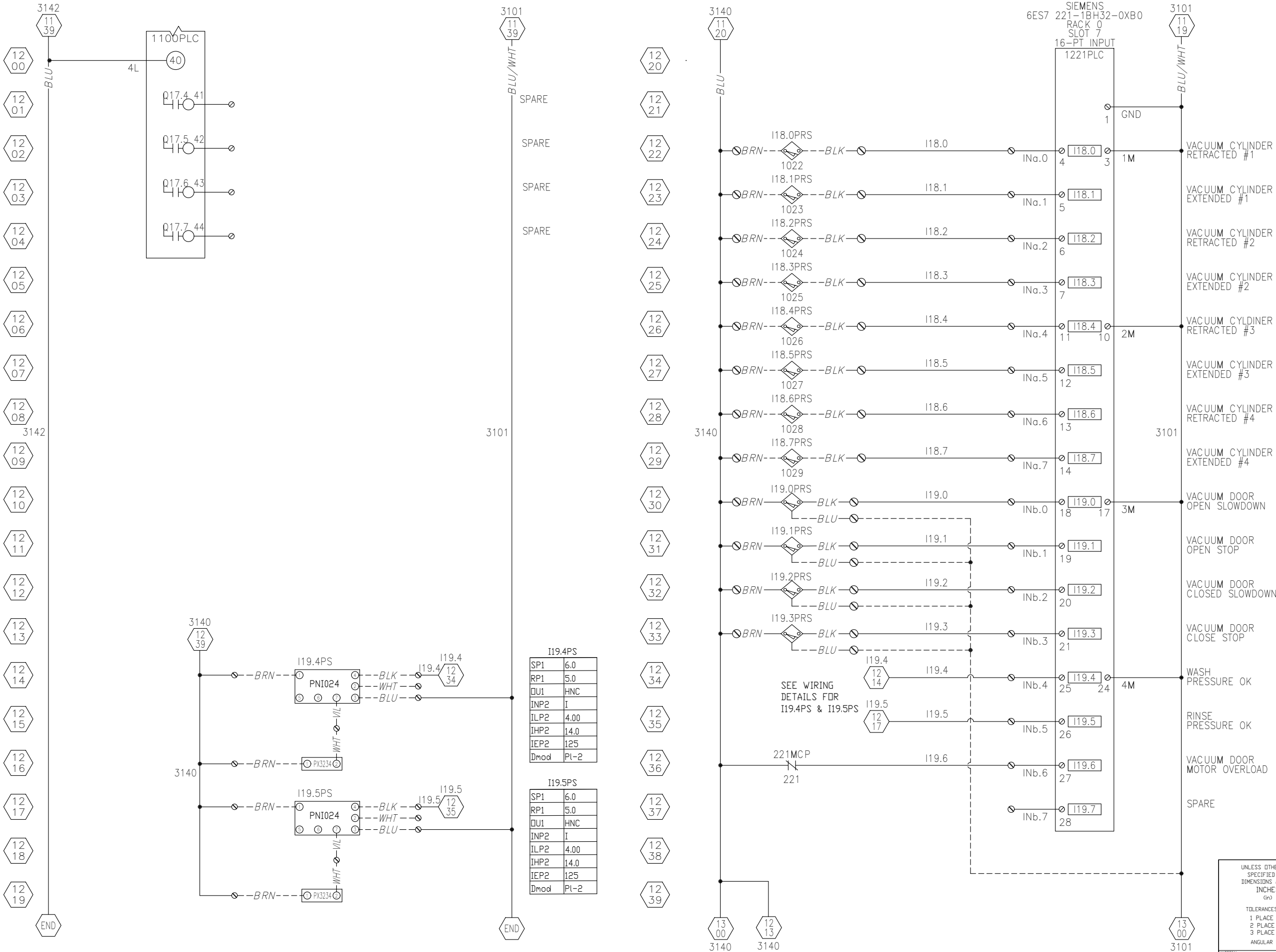
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	DESCRIPTION: PLC I/O
CHECKED: TK	6/10/2022	SHEET: 11 OF 25 DO NOT SCALE DRAWING
STATE:	DRAWING NUMBER: 6194E11	REVISION

REV	DATE	DESCRIPTION	INI



I19.4PS	
SP1	6.0
RP1	5.0
OU1	HNC
INP2	I
ILP2	4.00
IHP2	14.0
IEP2	125
Dmod	PI-2

I19.5PS	
SP1	6.0
RP1	5.0
OU1	HNC
INP2	I
ILP2	4.00
IHP2	14.0
IEP2	125
Dmod	PI-2

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR 0.5°



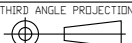
CLEANING TECHNOLOGIES GROUP

RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA

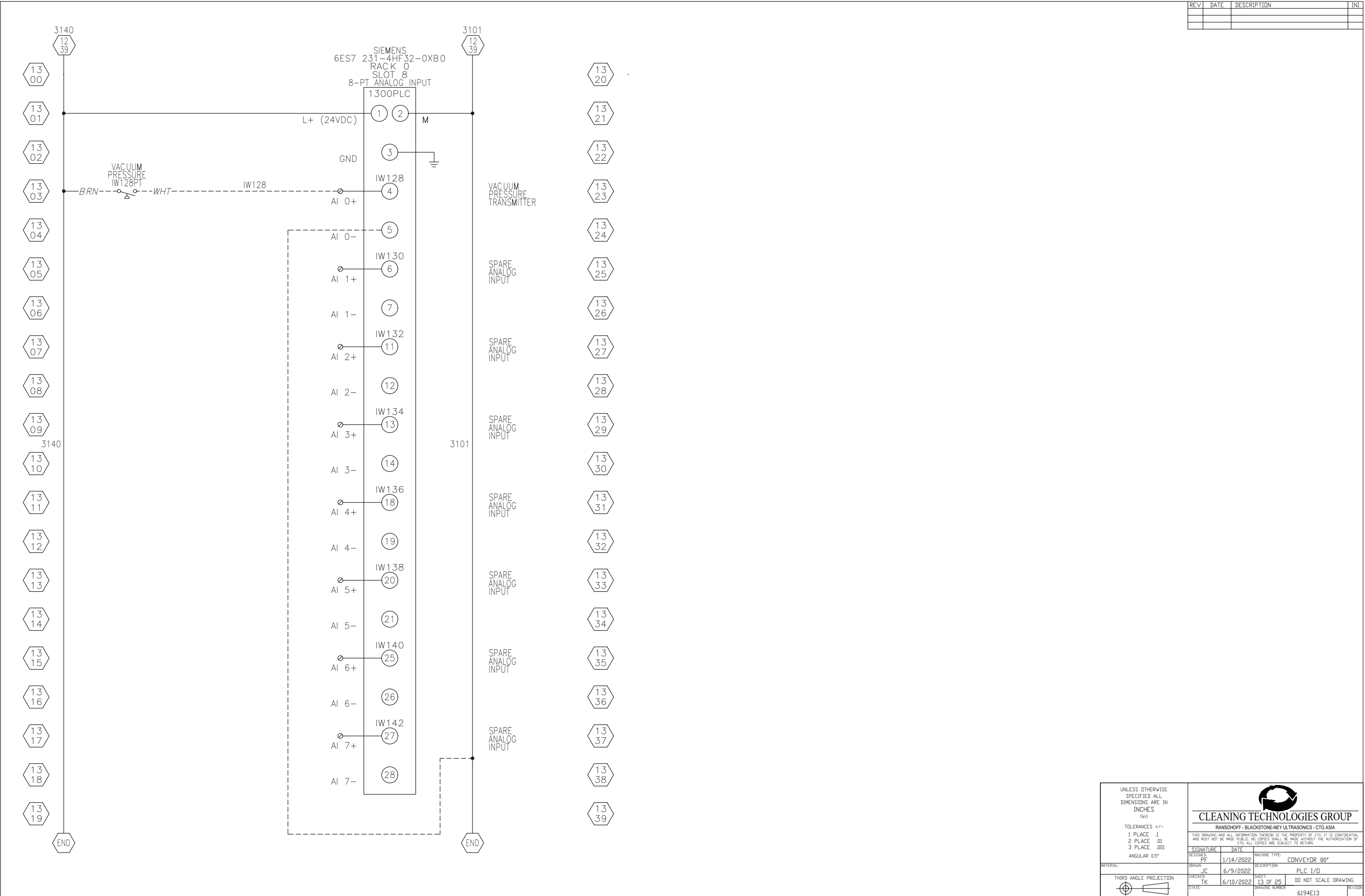
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	PLC I/O
CHECKED: TK	6/10/2022	SHEET: 12 OF 25
STATE:		DRAWING NUMBER: 6194E12

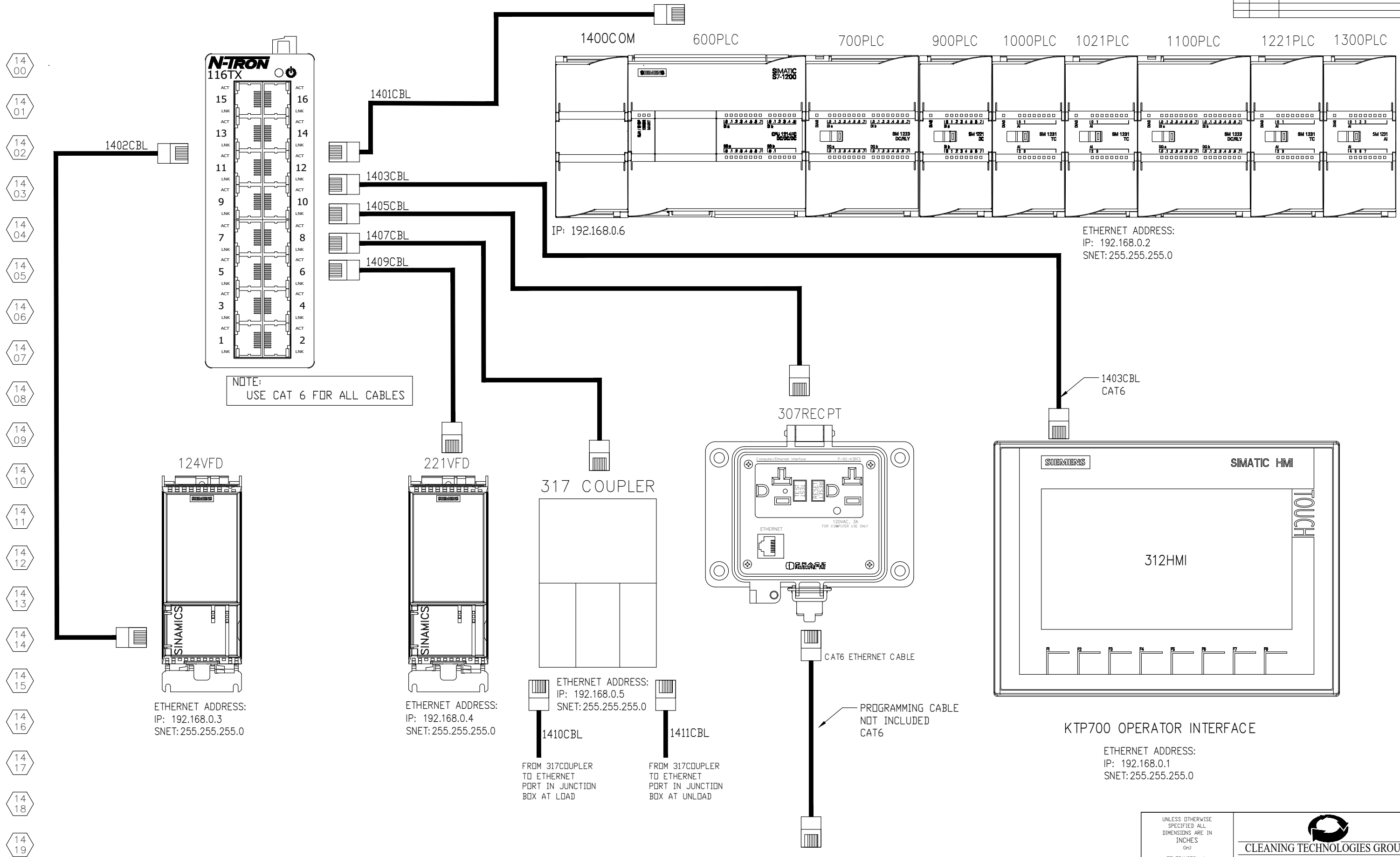
THIRD ANGLE PROJECTION



REV	DATE	DESCRIPTION	INI



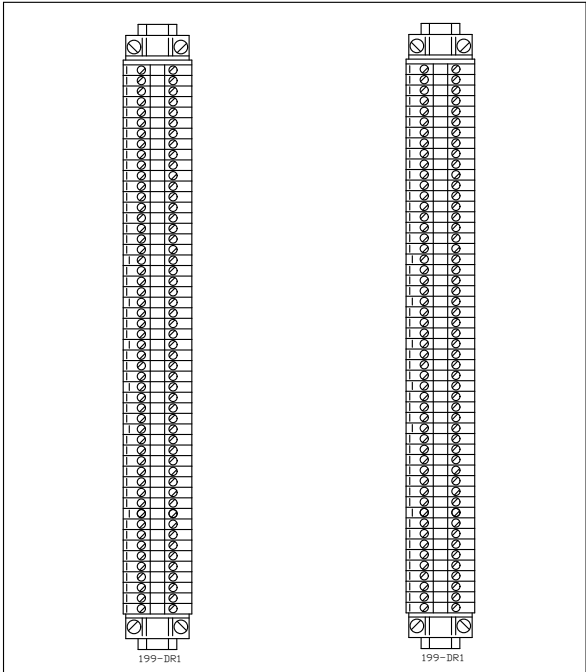
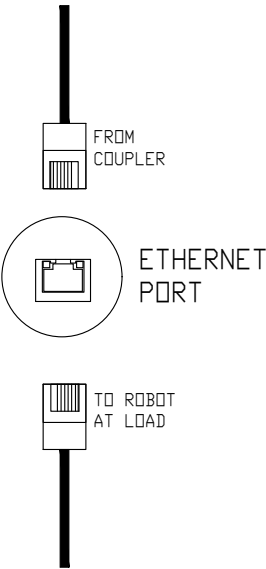
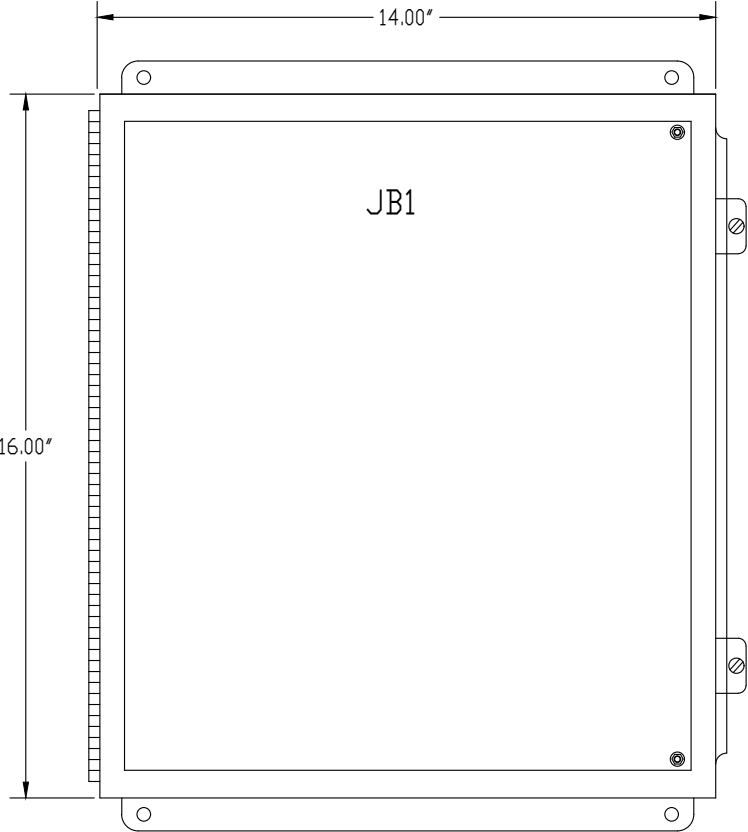
REV	DATE	DESCRIPTION	INI



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)			
TOLERANCES +/-			
1 PLACE .1			
2 PLACE .01			
3 PLACE .001			
ANGULAR .05°			
THIRD ANGLE PROJECTION			
SIGNATURE			
DESIGNED:	PF	DATE:	1/14/2022
DRAWN:	JC	DATE:	6/9/2022
CHECKED:	TK	DATE:	6/10/2022
STATE:		DATE:	
MATERIAL:		DESCRIPTION:	
		COMMUNICATIONS DIAGRAM	
SHEET:		DO NOT SCALE DRAWING	
DRAWING NUMBER:		REVISION	
6194E14			

REV	DATE	DESCRIPTION	INI

LOAD ROBOT SAFETY
16" X 14" X 8"



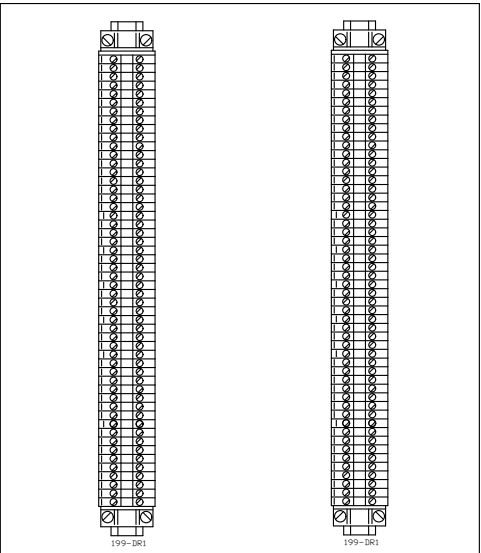
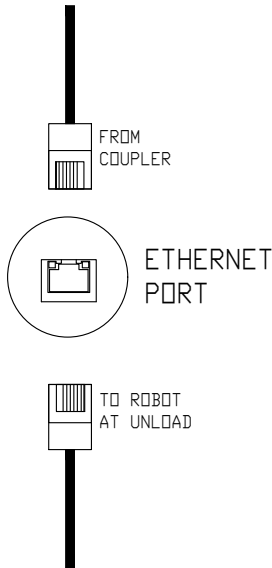
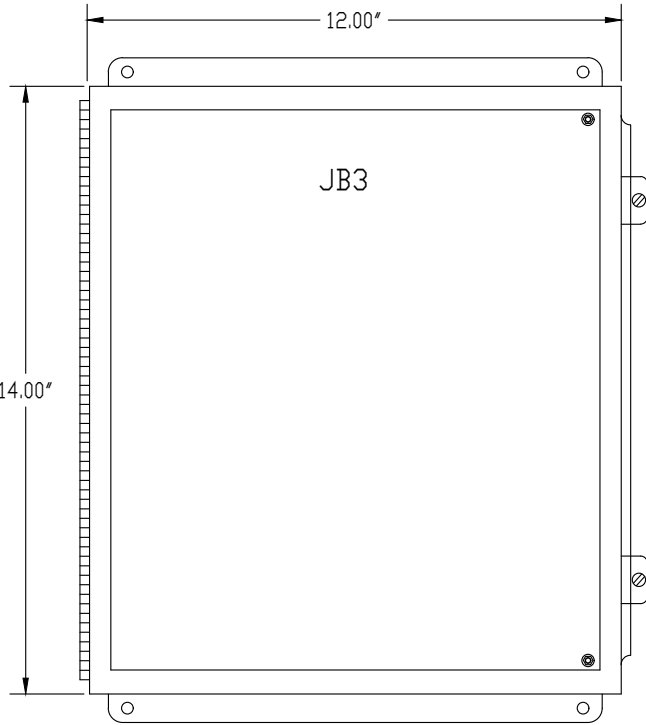
SUB-PLATE

PANEL BUILDER DO NOT QUOTE PANEL COMPONENTS OR ASSEMBLY. PANEL BUILDER IS ONLY TO QUOTE TERMINATIONS FOR INTERCONNECT AND ALL DEVICE TAGS.

JB1

3101	I9.0
3130	Q9.4
3140	I12.7
4000	I13.3
4004	I13.4
4005	I13.5
4010	I13.6
4014	I13.7
4015	I14.0
5030	I14.1
5031	I14.2
5032	I14.3
5033	I14.4
5034	I14.5
5036	I14.6
5040	I14.7
5041	I16.0
5042	I17.2
5043	I17.3
5044	I17.4
5045	SP-20
5046	SP-21
5110	SP-22
5112	SP-23
5113	SP-24
5115	SP-25
	SP-26
	GND

UNLOAD ROBOT SAFETY
12" X 10" X 5"



SUB-PLATE

PANEL BUILDER DO NOT QUOTE PANEL COMPONENTS OR ASSEMBLY. PANEL BUILDER IS ONLY TO QUOTE TERMINATIONS FOR INTERCONNECT AND ALL DEVICE TAGS.

JB3

3101	SP-32
3140	SP-33
3181	SP-34
3190	
4002	
4003	
4005	
4006	
4012	
4013	
4015	
4016	
I9.3	
Q9.5A	
I13.0	
I15.0	
I15.1	
I15.2	
I15.3	
I15.4	
I15.5	
I15.6	
I15.7	
I16.1	
	GND

JB2

3101	SP-27
3130	SP-28
3140	SP-29
5110	SP-30
5111	SP-31
5112	
5113	
5114	
5115	
IW64	
IW66	
Q9.6A	
Q9.7A	
I12.0	
I12.1	
I12.2	
I12.3	
I12.4	
I12.5	
I16.2	
I17.5	
I17.6	
	GND

JB4

3101	I19.0
3140	I19.1
I16.3	I19.2
I16.4	I19.3
I16.5	IW128
I16.6	GND
I17.0	SP-35
I17.1	SP-36
Q16.0A	SP-37
Q16.1A	SP-38
Q16.2A	SP-39
Q16.3A	
Q16.6A	
Q16.7A	
Q17.0A	
Q17.1A	
Q17.2A	
Q17.3A	
Q18.0	
Q18.1	
Q18.2	
Q18.3	
Q18.4	
Q18.5	
Q18.6	
Q18.7	
	SPARES
	WIRE 19
	WIRE 20
	WIRE 21
	WIRE 22
	WIRE 23
	WIRE 24
	GND

JB5

25 CONDUCTOR CABLE

3101	SP-27
3140	SP-28
Q16.2A	SP-29
Q16.3A	SP-30
Q16.6A	SP-31
Q16.7A	
Q17.0A	
Q17.1A	
Q17.2A	
Q17.3A	
Q18.0	
Q18.1	
Q18.2	
Q18.3	
Q18.4	
Q18.5	
Q18.6	
Q18.7	
	SPARES
	WIRE 19
	WIRE 20
	WIRE 21
	WIRE 22
	WIRE 23
	WIRE 24
	GND

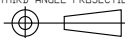
JB6

16030
16031
16040
16041
GND

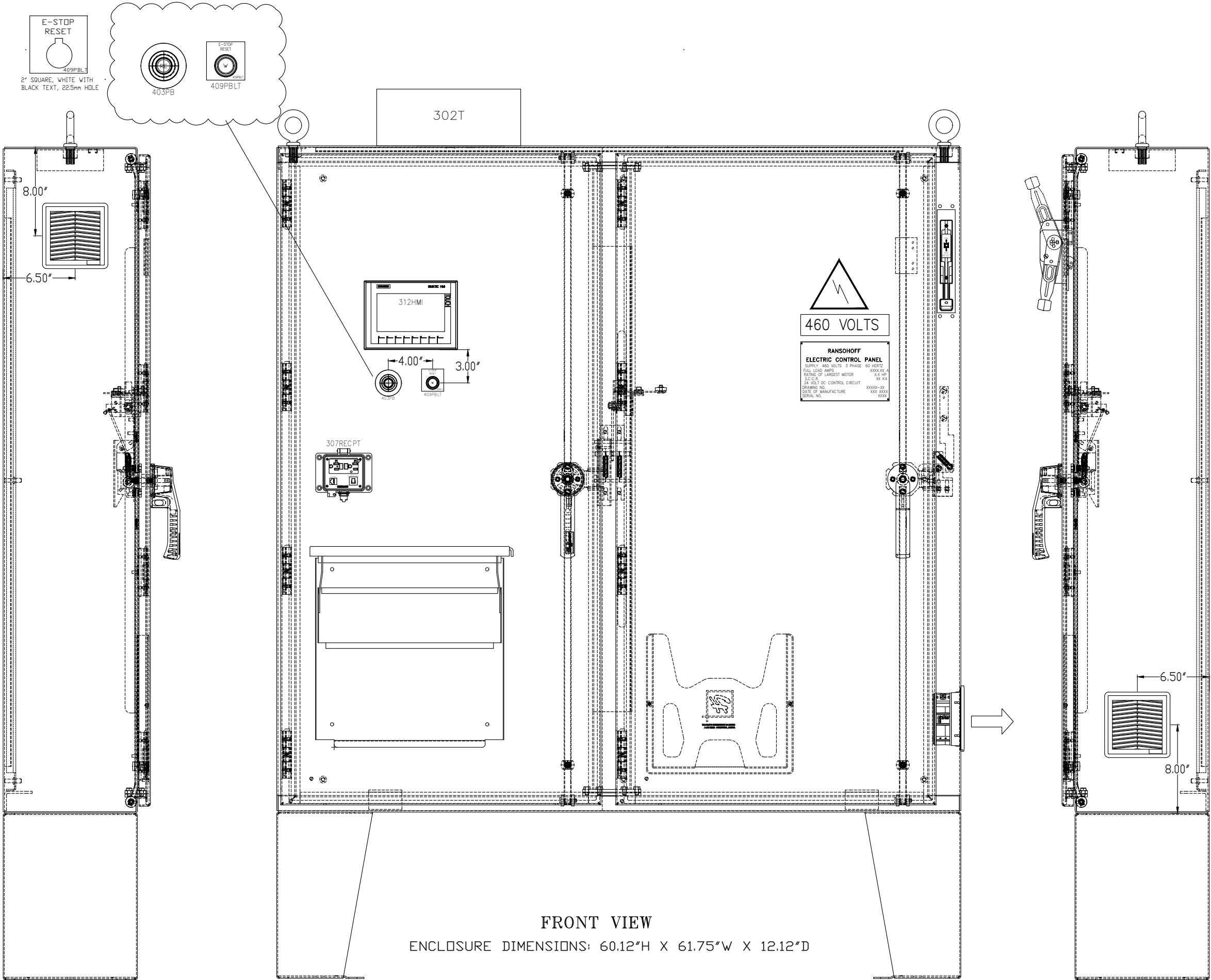
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)		TOLERANCES +/-	
1 PLACE .1		2 PLACE .01	
3 PLACE .001		ANGULAR 0.5°	
THIRD ANGLE PROJECTION		SIGNATURE	
DESIGNED: PF		DATE: 1/14/2022	
DRAWN: JC		MACHINE TYPE: CONVEYOR 80°	
CHECKED: TK		DESCRIPTION: JUNCTION BOX	
STATE:		SHEET: 15 OF 25	
DRAWING NUMBER: 6194E15		DO NOT SCALE DRAWING	
		REVISION	

REV	DATE	DESCRIPTION	INI

SPARE SHEET

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)			
TOLERANCES +/-		CLEANING TECHNOLOGIES GROUP	
1 PLACE .1		RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA	
2 PLACE .01		THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF CTG. IT IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC. NO COPIES SHALL BE MADE WITHOUT THE AUTHORIZATION OF CTG. ALL COPIES ARE SUBJECT TO RETURN.	
3 PLACE .001		SIGNATURE DATE	
ANGULAR .05°		DESIGNED: PF 1/14/2022 MACHINE TYPE: CONVEYOR 80"	
MATERIAL:		DRAWN: JC 6/9/2022 DESCRIPTION: SPARE SHEET	
THIRD ANGLE PROJECTION		CHECKED: TK 6/10/2022 SHEET: 17 OF 25 DO NOT SCALE DRAWING	
		STATE: DRAWING NUMBER: 6194E17 REVISION:	

REV	DATE	DESCRIPTION	INI



**RANSOHOFF
ELECTRIC CONTROL PANEL**

SUPPLY 460 VOLTS 3 PHASE 60 HERTZ
FULL LOAD AMPS 412.6A
RATING OF LARGEST MOTOR 15 HP
S.C.C.R. 10 KA
CONTROL CIRCUIT 120VAC/24VDC
DRAWING NO. 6194E00
DATE OF MANUFACTURE JULY 2022
SERIAL NO. 6194

CONTROL PANEL TAG
4" X 6" METAL PLATE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-
1 PLACE .1
2 PLACE .01
3 PLACE .001
ANGULAR 0.5°

THIRD ANGLE PROJECTION

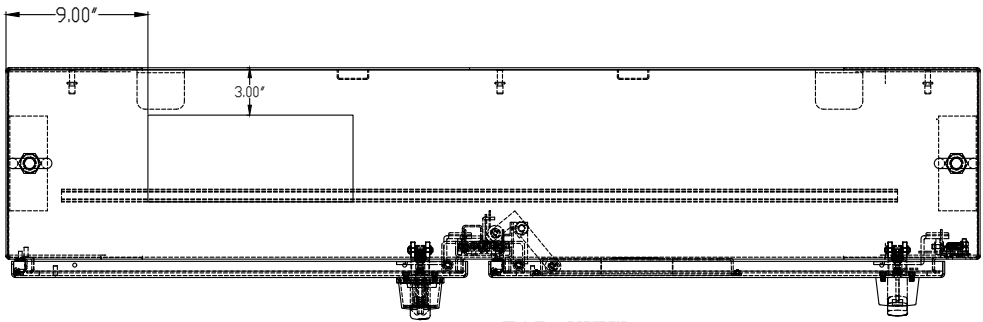
CLEANING TECHNOLOGIES GROUP

RANSOHOFF - BLACKSTONE-KEY ULTRASONICS - CTG ASIA

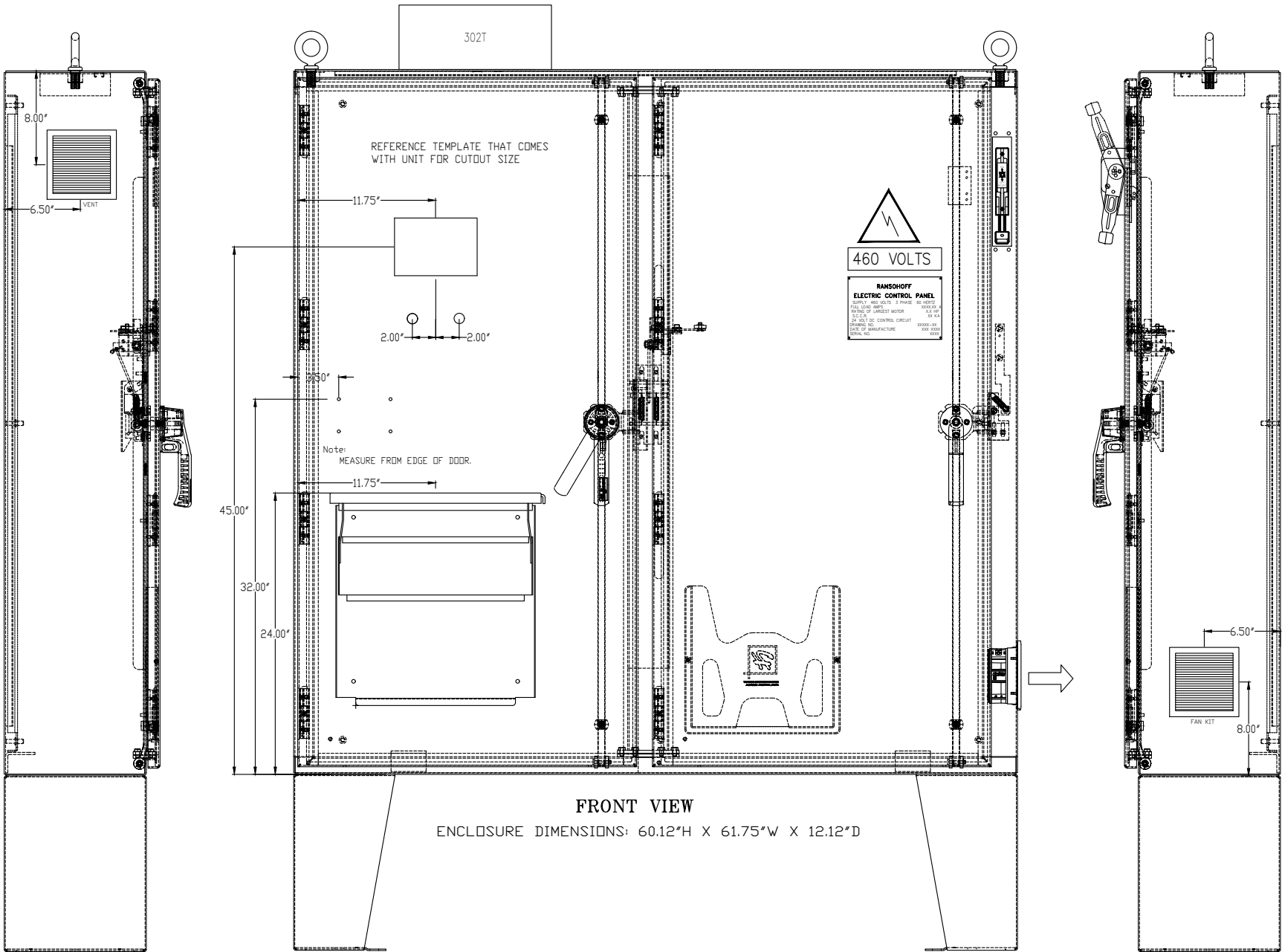
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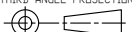
SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	ENCLOSURE LAYOUT
CHECKED: TK	6/10/2022	SHEET: 18 OF 25 DO NOT SCALE DRAWING
STATE:	DRAWING NUMBER:	6194E18

REV	DATE	DESCRIPTION	INI

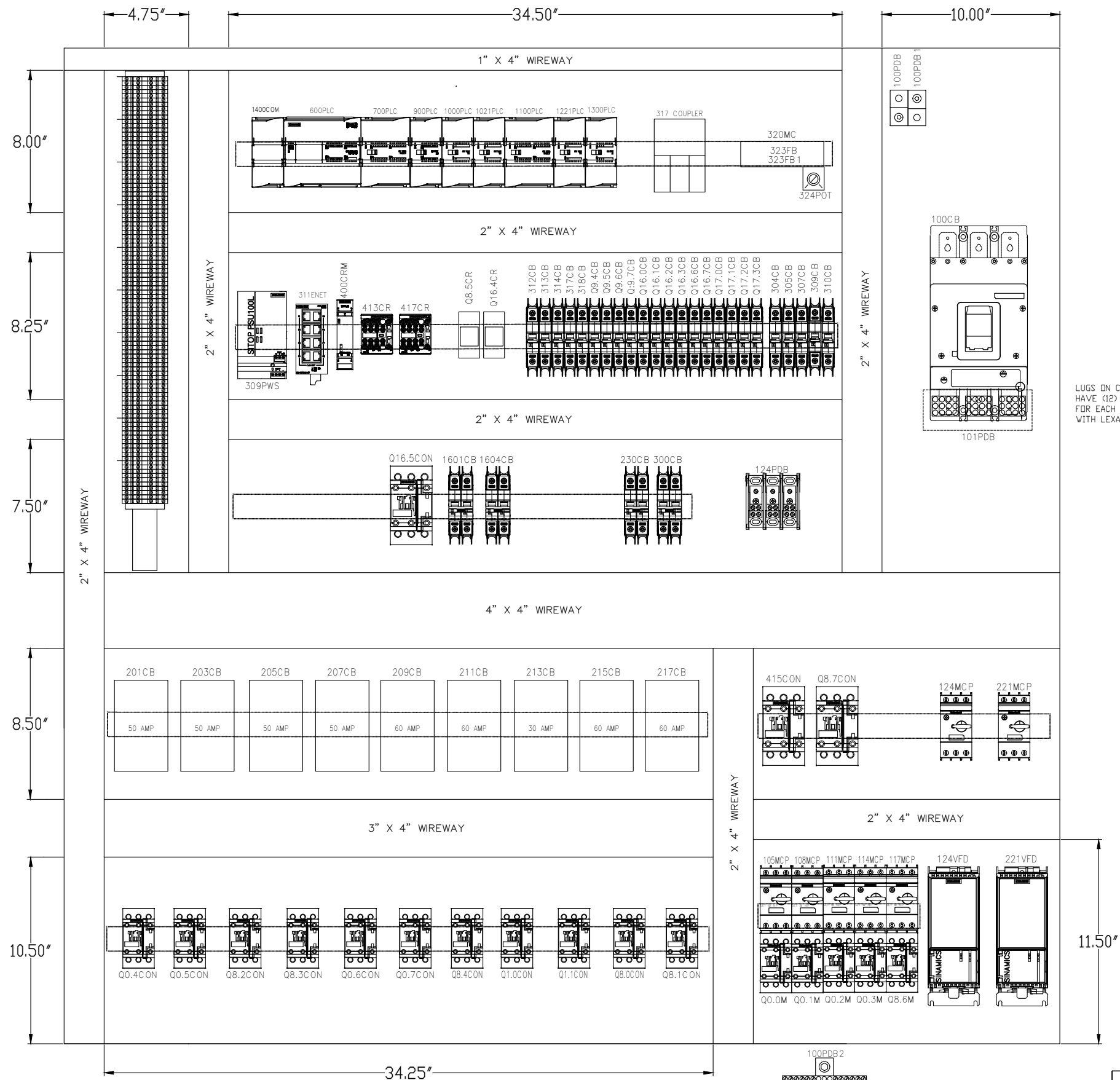


TOP VIEW



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)		 CLEANING TECHNOLOGIES GROUP RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA	
TOLERANCES +/-		THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF CTG. IT IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC. NO COPIES SHALL BE MADE WITHOUT THE AUTHORIZATION OF CTG. ALL COPIES ARE SUBJECT TO RETURN.	
1 PLACE .1		SIGNATURE	DATE
2 PLACE .01		DESIGNED: PF	1/14/2022
3 PLACE .001		DRAWN: JC	6/9/2022
ANGULAR 0.5°		CHECKED: TK	6/10/2022
THIRD ANGLE PROJECTION		STATE:	REVISION
		DRAWING NUMBER: 6194E19	

REV	DATE	DESCRIPTION	INI



NOTE TO PANEL BUILDER
PLEASE MAKE SURE THERE ARE
ENOUGH 24VDC (+), (-) AND
GROUND TERMINALS ON TERMINAL
STRIP TO COVER FIELD DEVICES PLUS 10% SPARES.

SUBPANEL 56" X 56"
A-60P60

GROUND BLOCK LOCATED
ON THE RIGHT BOTTOM OF ENCLOSURE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR 0.5°

THIRD ANGLE PROJECTION

CLEANING TECHNOLOGIES GROUP

RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA

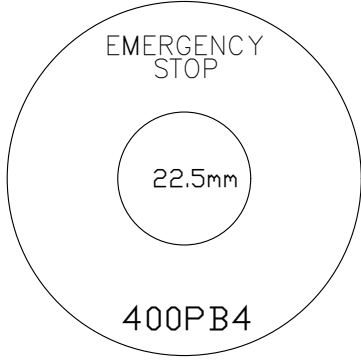
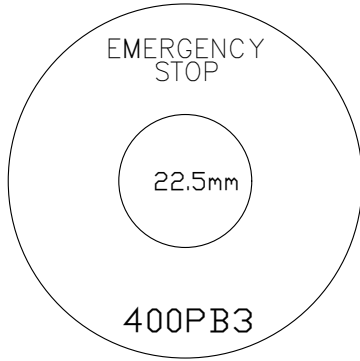
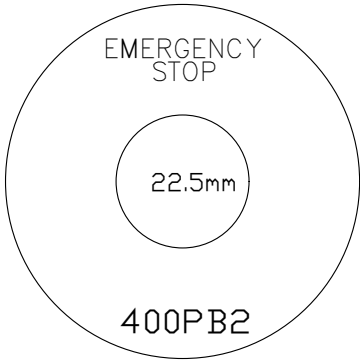
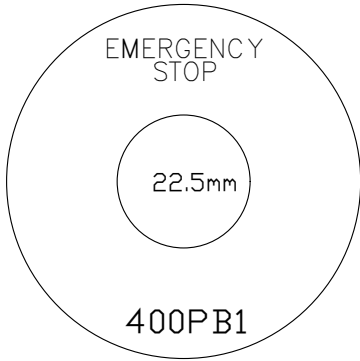
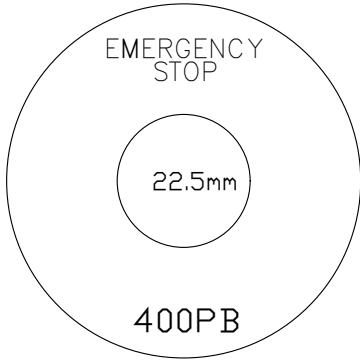
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	DESCRIPTION: SUB-PANEL LAYOUT
CHECKED: TK	6/10/2022	SHEET: 20 OF 25
STATE:	DRAWING NUMBER: 6194E20	REVISION

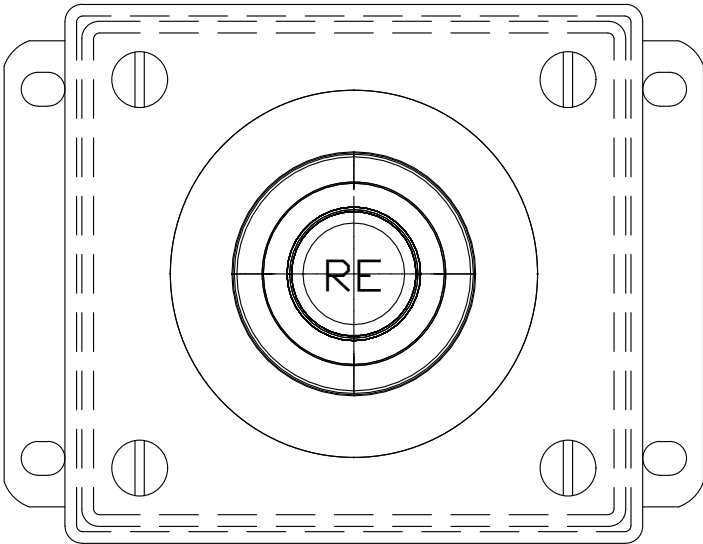
DO NOT SCALE DRAWING

REV	DATE	DESCRIPTION	INI

(MAIN ENCLOSURE)



YELLOW 60MM ROUND
WITH ENGRAVED BLACK
LETTERS



E–STOP PB STATION
TYPICAL

E–STOP PB STATIONS	
LOCATION	DESIGNATION
LOAD END	400PB
LOAD END	400PB1
UNLOAD END	400PB2
UNLOAD END	400PB3

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-

1 PLACE .1

2 PLACE .01

3 PLACE .001

ANGULAR .05°

THIRD ANGLE PROJECTION

CLEANING TECHNOLOGIES GROUP

RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA

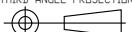
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SIGNATURE	DATE	MACHINE TYPE
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	DESCRIPTION: E-STOP STATIONS & TAGS
CHECKED: TK	6/10/2022	SHEET: 21 OF 25
STATE:	DRAWING NUMBER: 6194E21	REVISION

DO NOT SCALE DRAWING

REV	DATE	DESCRIPTION	INI

SPARE SHEET

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)			
TOLERANCES +/-		CLEANING TECHNOLOGIES GROUP	
1 PLACE .1		RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA	
2 PLACE .01		THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF CTG. IT IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC. NO COPIES SHALL BE MADE WITHOUT THE AUTHORIZATION OF CTG. ALL COPIES ARE SUBJECT TO RETURN.	
3 PLACE .001			
ANGULAR .05°			
THIRD ANGLE PROJECTION			
			
DESIGNED: PF		DATE: 1/14/2022	MACHINE TYPE: CONVEYOR 80"
DRAWN: JC		DATE: 6/9/2022	DESCRIPTION: SPARE SHEET
CHECKED: TK		DATE: 6/10/2022	SHEET: 22 OF 25
STATE:		DRAWING NUMBER: 6194E22	REVISION:

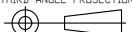
REV	DATE	DESCRIPTION	INI

TAGS	ITEM	QTY	DESCRIPTION
ENCLOSURE	900	1	HOFFMAN, A60X6112LPFTC, ENCLOSURE, NEMA 12, 2 DOOR, 60" X 61.38" X 12" FLANGED DISCONNECT
SUB-PANEL	901	1	HOFFMAN A60P60 ENCLOSURE, SUB-PANEL, 56"X56"
ENCLOSURE SHELF	902	1	HOFFMAN, A-AshLF1818, ENCLOSURE, FOLDING SHELF KIT 18" x 18"
E-STOPS	903	4	HOFFMAN, E-1PBG, ENCLOSURE, PUSH BUTTON, 22.5MM, 1 HOLE
100PDB, 100PDB1	904	2	BURNDY, BUR KA29U, POWER DISTRIBUTION, LUG, (1) #6-250MCM AWG
100PDB2	905	1	PENNUNION, SNB350-24, 4-14, GROUND BAR, ALUMINUM, 24 CIRCUITS, 12 HOLES, #4-14
124PDB	906	1	MERSEN, MPDB63163, DISTRIBUTION BLOCK, 1 PRI. 4 SEC. #4-#14
124PDB	0906A	3	MERSEN, MPDBC6263, DISTRIBUTION BLOCK, COVER
100CB	907	1	SQUARE-D, LDL36600U31X, CIRCUIT BREAKER, MOLDED CASE, 3 POLE, 600V, L FRAME, 600A TRIP SETTING, 18 KA, 2-2/0 LUGS/PH
100CB	908	1	SQUARE-D, 9422-A1, OPERATING MECHANISM, HANDLE, 6", NEMA 12
100CB	909	1	SQUARE-D, 9422-CSJ50, OPERATING MECHANISM, VARIABLE DEPTH FLANGE MOUNTED, FOR L FRAME CIRCUIT BREAKER, C/W 60" CABLE (NO HANDLE)
101PDB	910	3	SQUARE-D, PDC12DG4L3, CIRCUIT BREAKER DISTRIBUTION LUGS, L FRAME, 12 WIRES PER TERMINAL, SET OF 3
101PDB	911	1	SQUARE D, LTSL3P, TERMINAL SHIELD, 3-POLE, LONG
302T	912	1	ACME, T-2-53012-S, TRANSFORMER, DRY TYPE, 240 X 480-120/240VAC, 2000VA
304FAN	913	1	SAGINAW, SCE-N12FA44, PANEL FAN KIT, 28 CFM
ENCLOSURE	914	1	SAGINAW, SCE-N12FGA44, PANEL EXHAUST KIT, INCLUDES FILTER, NEMA12
309PWS	915	1	SIEMENS, 6EP1334-1LB00, POWER SUPPLY, 120/230 VAC 1 PHASE IN, 24 VDC 10 AMP OUT, DIN RAIL MOUNT
300CB	916	1	SIEMENS, 5SJ4210-7HG42, CIRCUIT BREAKER, TERMINAL MOUNT, 2 POLE, HIGH INRUSH, 10 AMP
304CB, Q9.4CB, Q9.5CB, Q9.6CB, Q9.7CB, Q16.0CB, Q16.1CB, Q16.2CB, Q16.3CB, Q16.7, Q16.7CB, Q17.0, Q17.1, Q17.2, Q17.3 317CB, 318CB	917	17	SIEMENS, 5SJ4101-7HG42, CIRCUIT BREAKER, TERMINAL MOUNT, 1 POLE, HIGH INRUSH, 1 AMP
309CB, 310CB	918	2	SIEMENS, 5SJ4110-7HG42, CIRCUIT BREAKER, TERMINAL MOUNT, 1 POLE, HIGH INRUSH, 10 AMP
307CB	919	1	SIEMENS, 5SJ4111-7HG42, CIRCUIT BREAKER, TERMINAL MOUNT, 1 POLE, 5 AMP
313CB	920	1	SIEMENS, 5SJ4106-7HG42, CIRCUIT BREAKER, TERMINAL MOUNT, 1 POLE, 6 AMP
312CB	921	1	SIEMENS, 5SJ4104-7HG42, CIRCUIT BREAKER, 4 AMP
305CB	922	1	SIEMENS, 5SJ4108-7HG42, CIRCUIT BREAKER, 8 AMP
314CB	923	1	SIEMENS, 5SJ4104-7HG42, CIRCUIT BREAKER, 4 AMP

201CB, 203CB, 205CB, 207CB	924	4	SIEMENS, CQD350, CIRCUIT BREAKER, 3 POLE, 50 AMPS, 480Y/277VAC
209CB, 211CB, 215CB, 217CB	925	4	SIEMENS, CQD360, CIRCUIT BREAKER, 3 POLE, 60 AMPS, 480Y/277VAC
213CB	926	1	SIEMENS, CQD330, CIRCUIT BREAKER, 3 POLE, 30 AMPS, 480Y/277VAC
124MCP	927	1	SIEMENS, 3RV2011-1EA15, MOTOR CIRCUIT PROTECTOR, SIRIUS 3RV STYLE WITH SCREW TERMINALS, 2.8-4 AMP
124VFD	928	1	SIEMENS, 6SL32101KE123UF2, SINAMICS G120C RATED POWER , .75KW WITH 150% OVERLOAD FOR 3 SEC 3AC 380-480V, PROFINET
124VFD, 221VFD	929	2	SIEMENS, 6SL3255-0AA00-4CA1, SINAMICS G120 BASIC OPERATOR PANEL (BOP-2)
VFD COMM	930	1	SIEMENS, 6ES7972-0BA42-0XA0, FAST CONNECT, 35 DEGREE FOR PROFIBUS COMMS
Q1.0CON, Q1.1CON, Q0.6CON, Q0.7CON, Q8.0CON , Q8.1CON	931	6	SIEMENS, 3RT1035-1BB40, CONTACTOR, FULL VOLTAGE, NON REVERSING, 3 POLE, 24 VDC COIL, IEC, 40A AC3, 60A AC1
Q1.0CON, Q1.1CON, Q8.0CON, Q8.1CON	932	4	SIEMENS, 3RH1921-1FA22, AUXILLARY CONTACT FOR SIZE S2 CONTACTOR, 2NO, 2NC
415CON, Q1.0CON, Q1.1CON, Q8.0CO, Q8.1CON	933	5	SIEMENS, 3RT1926-1BB00, VARISTOR, ASSEMBLY FOR SIZE 2 CONTACTOR
Q0.4CON, Q0.5CON, Q8.2CON, Q8.3CON, Q8.4CON	934	5	SIEMENS, 3RT2027-1FB40, CONTACTOR, FULL VOLTAGE, NON REVERSING, 3 POLE, 24 VDC COIL, IEC, 32A AC3, 50A AC1, 1 N.O., 1N.C. INTEGRATED DIODE
Q0.2M, Q0.4CON, Q0.5CON, Q8.2CON, Q8.3CON, Q8.4CON	935	6	SIEMENS, 3RT2926-1BB00, VARISTOR, ASSEMBLY FOR SIZE 0 CONTACTOR
117MCP/Q8.6M	936	1	SIEMENS, 3RA21 10-4AA18-1BB4, MOTOR CIRCUIT PROTECTOR, SIRIUS 3RV STYLE WITH SCREW TERMINALS, 10 HP, 11-16A MP, 1NO, S00
111MCP/Q0.2M	937	1	SIEMENS, 3RA21 20-4CA27-0BB4, MOTOR CIRCUIT PROTECTOR, SIRIUS 3RV STYLE WITH SCREW TERMINALS, 15 HP, 17-22 AMP, 1NO, SO
105MCP/Q0.0M	938	1	SIEMENS, 3RA21 10-1KA15-1BB4, MOTOR CIRCUIT PROTECTOR, SIRIUS 3RV STYLE WITH SCREW TERMINALS, 7 1/2 HP, 9-12 AMP, 1NO
108MCP/Q0.1M 114MCP/Q0.3M	939	2	SIEMENS, 3RA21 10-1HA16-1BB4, MOTOR CIRCUIT PROTECTOR, SIRIUS 3RV STYLE WITH SCREW TERMINALS, 1 1/2 HP, 5.5-8 AMP, 1NO
221VFD	940	1	SIEMENS, 6SL32101KE132UF2, SINAMICS G120C RATED POWER , 1.1KW WITH 150% OVERLOAD FOR 3 SEC 3AC 380-480V, PROFINET
221MCP	941	1	SIEMENS, 3RV20111FA15, MOTOR CIRCUIT PROTECTOR, SIRIUS 3RV STYLE WITH SCREW TERMINALS, 3.5-5 AMP
Q0.0M, Q0.1M, Q0.3M, Q8.6M	942	4	SIEMENS, 3RT2916-1BB00, VARISTIDR ASSEMBLY FOR SIZE 00 CONTACTOR

105MCP, 108MCP, 111MCP, 114MCP, 117MCP, 120MCP,Q0.0M, Q0.1M, Q0.3M, Q8.6M	943	10	SIEMENS, 3RV29-01-1E, MOTOR PROTECTION CIRCUIT BREAKER, FRONT MOUNTED AUXILIARY CONTACT, 1 N.O., 1 N.C. SIZE 0, 00
MCP'S	944	1	SIEMENS, 3RV29 25-5AB, TERMINAL FEEDER
MCP'S	945	1	SIEMENS, 3RV1915-1DB, BUSBAR, 5 PLACES
400CRM	946	1	SIEMENS, 3SK1111-1AB30, CONTROL RELAY, SAFETY SUPPLY VOLTAGE, 24 VDC, 3 NO SAFETY CONTACTS, 2 NC CONTACTS.
415CON	947	1	SIEMENS, 3RT2037-1KB4-3MA0, SAFETY CONTACTOR, 60AMP, C/W VARISTOR, SIZE S2.
413CR, 417CR	948	2	SIEMENS,3RH2244-1BB40 , SAFETY RELAY, 24 VDC COIL, IEC, 10A, 4 N.O. 4 N.C
307RECPT	949	1	GRACE ENGINEERING INC, P-R2-K3RF0, PROGRAM PORT, FOR CAT. 5 ETHERNET, RECPT, C/W SEALED COVER, GFCI
311ENET	950	1	N-TRON, 116TX, ETHERNET SWITCH, 16-PORT, 24VDC, DIN MTG
CAT-6 CABLES	951	6	SHIELDED CAT-6 ETHERNET STRAIGHT CABLE, PANEL BUILDER TO MAKE OR BUY
600PLC	952	1	SIEMENS, 6ES7-214-1HG40-0XB0, PLC, S71200, BASE UNIT, 24VDC, POWER IN, 14 DI, 10 RELAY OUT, 2AI
600PLC	953	1	SIEMENS, 6ES7-954-8LC02-0AA0, PLC, S7-1200, MEMORY CARD VDC
700PLC, 1100PLC	954	2	SIEMENS, 6ES7-223-1PL32-0XB0, PLC, S7-1200, 32PT, 16DI/16 RELAY OUT, 24VDC
900PLC, 1021PLC, 1221PLC	955	3	SIEMENS, 6ES7-221-1BH32-0XB0, MODULE, 16-POINT INPUT, 24VDC
1000PLC	956	1	SIEMENS, 6ES7-231-5QF32-0XB0, PLC, S7-1200, 8 CH THERMOCOUPLE MODULE
1400COM	957	1	SIEMENS, 6GK7243-1BX30-0XE0, PLC COMMUNICATION MODULE
1300PLC	958	1	SIEMENS, 6ES7-231-4HF32-0XB0, PLC, S7-1200, ANALOG INPUT MODULE, 8 POINT
317 PN COUPLER	959	1	SIEMENS, 6ES7158-3AD10-0XA0, PN COUPLER
317 PN COUPLER	960	2	SIEMENS, 6ES7193-6AR00-0AA0, BUSADAPTER BA 2XRJ45, 2 RJ45 SOCKETS FOR PROFINET
312HMI	961	1	SIEMENS, 6AV2123-2GB03-0AX0, KTP700 BASIC OPERATOR INTERFACE, COLOR, 7" TFT DISPLAY, PROFINET, 24VDC
400PB, 400PB1 400PB2, 400PB3, 403PB	962	5	SIEMENS, 3SU1150-1BA20-1CA0, PUSH BUTTON, MUSHROOM 40MM, RED, LATCHING, PULL TO UNLATCH, 22.5MM, 1NC
400PB, 400PB1 400PB2, 400PB3, 403PB	963	5	SIEMENS, 3SU1400-1AA10-1FA0, PUSH BUTTON, 1 N.C., 1 N.O. CONTACT BLOCK BLOCK
409PBLT	964	1	SIEMENS, 3SU1152-0AB60-1BA0, PUSH BUTTON, ILLUMINATED, MOMENTARY, 1NO, FLUSH, WHITE LED, 24V AC/DC 22.5MM, 24VAC/DC
TERM	965	1	ALLEN-BRADLEY, 1492-EBJD3, TERMINAL, END BARRIER FOR 1492-JD3
TERM	966	4	ALLEN-BRADLEY, 1492-CJ5-10, TERMINAL, JUMPER, CENTER, MULTI, 10 POLE
TERM	967	70	ALLEN-BRADLEY, 1492-JD3-W, TERMINAL, 600V, 30A, 1 POINT, GRAY, TWO TIER BLOCK

TERM	967	2	ALLEN-BRADLEY, 1492-EAJ35, TERMINAL, BLOCK, END ANCHOR, (FOR, DR1 & DR6-RAIL)
TERM	968	4	ALLEN-BRADLEY, 199-DR1, TERMINAL, MOUNTING DIN RAIL, FLAT
TERM	969	1	ALLEN-BRADLEY, 1492-DR6, TERMINAL, MOUNTING DIN RAIL, HI-RISE
TERM	970	2	ALLEN-BRADLEY, 1492-M5X8, TERMINAL, MARKERS, 144 TAGS
WIRE DUCT	971	2	TERMINAL, WIRE DUCT COVER, 2" GRAY
WIRE DUCT	972	2	TERMINAL, WIRE DUCT, 2" X 4", GRAY, SLOTTED
WIRE DUCT	973	1	TERMINAL, WIRE DUCT COVER, 1" GRAY, 6 FT. LONG
WIRE DUCT	974	2	TERMINAL, WIRE DUCT, 1" X 4", GRAY, SLOTTED, 6 FT. LONG
400PB, 400PB1,400PB2, 400PB3,403PB	975	5	ENGRAVING, YR, NAME PLATE, EMERGENCY STOP, YELLOW RING WITH BLK TEXT, FOR 22.5MM BUTTON
409PBLT	976	1	ENGRAVING, C2, NAME PLATE, 2.00" SQ, PUSH BUTTON PLATE, FOR 22.5MM BUTTON
PANEL TAGS	977	45	ENGRAVING, EA, NAME PLATE, 1/2" X 1-1/2" (ADHESIVE)
ENCLOSURE NAMEPLATE	978	1	ENGRAVING, J4X6, NAME PLATE, 4" X 6", ALUMINUM/BLACK
Q8.5CR, Q16.4CR	979	2	SIEMENS, 3TX7111-3PC03, CONTROL RELAY, 4PDT, 6A, 24 VDC COIL, MINIATURE, W/ LIGHT
Q8.5CR, Q16.4CR	980	2	SIEMENS, 3TX7144-4E5, CONTROL RELAY, SOCKET 8 BLADE, SCREW TERMINAL
320MC	981	1	KB ELECTRONICS, KBIC-125, MTR CONTROLLER, DC DRIVE, 115 VAC INPUT, 0-90 VDC OUTPUT, #9433
324POT	982	1	KB ELECTRONICS, 9815, MTR CONTROLLER, DC DRIVE, SMALL DIAL POT KIT
320MC	983	1	KB ELECTRONICS, 9841, MTR CONTROLLER, DC DRIVE, RESISTOR FOR 1/2 HP DC MOTOR (USE WITH #KBPB-125 CONTROLLER)
320MC	984	1	KB ELECTRONICS, 9884, TERMINAL, BARRIER BLOCK
320MC	985	1	KB ELECTRONICS, 9995, DIN RAIL MOUNT ADAPTER, FOR KB DRIVE
323FB	986	1	BUSSMANN, ABC-6, FUSE, 1/4" x 1 1/4", FAST ACTING, 250V, 6A
323FB1	987	1	BUSSMANN, MDA-8, FUSE, 1/4" X 1 1/4", TIME DELAY, 250V, 8A
1604CB, 230CB	988	2	SIEMENS, 5SJ4201-7HG42, CIRCUIT BREAKER, 480/277V, TERMINAL MOUNT, 2 POLE, HIGH INRUSH, 1 AMP
Q8.7CON, Q16.5CON	989	2	SIEMENS, 3RT2023-1BB40, CONTACTOR, FULL VOLTAGE, NON REVERSING, 3 POLE, 24 VDC COIL, IEC, 9A AC3, 40A AC1, 1 N.O., 1N.C. INTEGRATED DIODE
1601CB	990	1	SIEMENS, 5SJ4203-7HG42, CIRCUIT BREAKER, 480/277V, TERMINAL MOUNT, 2 POLE, HIGH INRUSH, 3 AMP

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TOLERANCES +/-		CLEANING TECHNOLOGIES GROUP	
1 PLACE .1		RANSCHOFF-BLACKSTONE-NEY ULTRASONICS-CTG ASIA	
2 PLACE .01		THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF CTG IT IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC NO COPIES SHALL BE MADE WITHOUT THE AUTHORIZATION OF CTG. ALL COPIES ARE SUBJECT TO RETURN.	
3 PLACE .001		SIGNATURE	DATE
ANGULAR 0.5°		DESIGNED: PF	1/14/2022
		DRAWN: JC	6/9/2022
		CHECKED: TK	6/10/2022
THIRD ANGLE PROJECTION		SHEET: 23 OF 25	DO NOT SCALE DRAWING
		DRAWING NUMBER: 6194E23	REVISION

FIELD DEVICES

REV	DATE	DESCRIPTION	INI

TAGS	ITEM	QTY	DESCRIPTION
I12.0PRS, I12.3PRS	9000	2	EFECTOR, IGC232, PROXIMITY SWITCH, WET LOCATION, 18 MM DIA, 5 MM SENSING, N.O., FLUSH, 4-PIN MICRO CABLE (TYPE1), 10-36 DC
I12.1PRS, I12.2PRS, I12.4PRS, I12.5PRS	9001	4	EFECTOR, IGC240, PROXIMITY SWITCH, WET LOCATION, 18 MM DIA, 5 MM SENSING, N.C., FLUSH, 4-PIN MICRO CABLE (TYPE1), 10-36 DC
I12.7PE, I13.0PE,	9002	3	EFECTOR, OGE280, PHOTOELECTRIC SENSOR, THRU-BEAM RECEIVER, 20M RANGE, 18MM DIA, STN STL HSG, 3-WIRE DC, PNP, DARK-ON, MICRO DC CONNECTOR
I16.4PE	9003A	1	IFM, OGT300, DIFFUSE REFLECTION SENSOR
I12.7PE, I13.0PE, I16.4PE	9003	3	EFECTOR, OGS280, PHOTOELECTRIC SENSOR, THRU-BEAM TRANSMITTER, 20M RANGE, 18MM DIA, STN STL HSG, 2-WIRE DC, MICRO DC CONNECTOR
I19.4PS, 19.5PS	9004	2	EFECTOR, PX3234, PRESSURE SENSOR, 0 200PSI, 4-2-mA OUTPUT, 4-33VDC IN. 2 WIRE, M12
IW128PT	9005	1	PRESSURE TRANSMITTER WITH CERAMIC MEASURING CELL IFM PX3229
I16.0SS, I16.1SS	9006	2	OMRON, E3Z-G81-M3J, SLOT/GROOVE THROUGH BEAM
I16.0SS, I16.1SS	9007	2	OMRON, XS3F-M421-405-A, CABLE, STRAIGHT, 4 PIN, NANO
SENSORS	9008	44	EFECTOR, EVC003, 4-WIRE MICRO DC CORDSET, STRAIGHT CONNECTOR, NICKEL PLATED BRASS COUPLING NUT, 22 AWG, BLACK PUR JACKET, 10M
I6.2PS, I6.3PS	9009	27	EFECTOR, E11504, FIELD WIREABLE M12 CONNECTOR, SCREW TERMINALS
503DS, 503DS1, 50DS2, 503DS3, 503DS4, 503DS5, 503DS6, 511DS, 511DS1, 511DS2	9010	10	ALLEN BRADLEY, 440NZ21SS2H, DOOR SWITCH, NON-CONTACT, RFID
503DS, 503DS1, 50DS2, 503DS3, 503DS4, 503DS5, 503DS6, 511DS, 511DS1, 511DS2	9010A	10	ALLEN-BRADLEY, 889D-F8AB10, 8-PIN DC MICRO CORD SET
JUNCTION BOX	9011	2	ENCLOSURE, JUNCTION BOX, 16" X 14" X 8", NEMA 12, 1 DOOR
JUNCTION BOX	9012	2	ENCLOSURE, JUNCTION BOX, BACK-PANEL, (FOR 14" X 16" ENCLOSURE)
TERMINALS	9013	2	ALLEN-BRADLEY, 1492-M6X12, TERMINAL, MARKING PLATES, (FOR 1492-J4 TERM.)

TERMINALS	9014	4	ALLEN-BRADLEY, 1492-EBJ3, TERMINAL, END BARRIER, FOR 1492-J4-W
TERMINALS	9015	6	ALLEN-BRADLEY, 1492-CJJ6-10, TERMINAL, JUMPER, CENTER (1492-J4 TERM.)
TERMINALS	9016	100	ALLEN-BRADLEY, 1492-J4-W, TERMINAL, BLOCK, WHITE, 600V, 30A
ETHERNET PORTS	9017	2	PANDUIT, IAEBHC6, ETHERNET BULKHEAD ADAPTER
SOLENOID CABLES	9018	3	MENCOM, DB25-MFP-10M CABLE, MALE-FEMALE, D-SUB, 25 PIN, GUARANTEED COLOR CODE, THREADS M2.6 x .45
I19.4PS, 19.5PS	9019	2	EFECTOR, E11566, 3 WAY SPLITTER, 8 PIN FEMALE, 4 PIN MALE, 4 PIN FEMALE
I19.4PS, 19.5PS	9020	2	EFECTOR, EVC013, 8-PIN, M12 CONNECTOR, 2M CABLE
I19.4PS, 19.5PS	9021	2	EFECTOR, PNIO24, DIFFERENTIAL PRESSURE SWITCH, 0-10 BARS
I19.0,I19.1 I19.2,I19.3		4	EFECTOR IGS 204
I16.5,I16.6 I17.0,I17.1		2	EUG006 - 90 DEGREE CABLE
I19.4PS I19.5PS		2	420172-EFECTOR ADTR,6¼,1/4",MM,WGASKET

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (in)

TOLERANCES +/-
1 PLACE .1
2 PLACE .01
3 PLACE .001

ANGULAR .05°


CLEANING TECHNOLOGIES GROUP
RANSCHOFF - BLACKSTONE-NEY ULTRASONICS - CTG ASIA

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SIGNATURE	DATE	MACHINE TYPE:
DESIGNED: PF	1/14/2022	CONVEYOR 80"
DRAWN: JC	6/9/2022	DESCRIPTION: BILL OF MATERIAL
CHECKED: TK	6/10/2022	SHEET: 24 OF 25 DO NOT SCALE DRAWING
STATE:	DRAWING NUMBER: 6194E24	REVISION:

