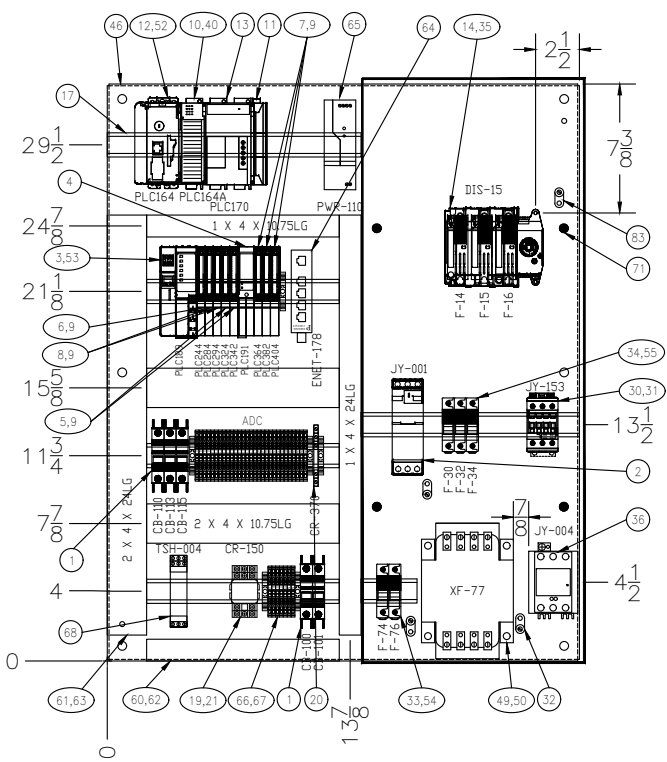
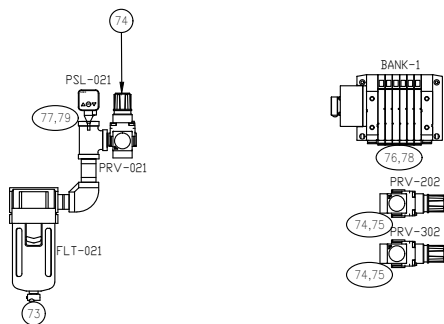


MAIN CONTROL
PANEL-A



SKID MOUNTED
PNEUMATIC ITEMS



NOTES:

1. CONDUIT ASSEMBLY - SCHEDULE 40 PVC-COATED RIGID.
2. UL508A LABEL APPLIED TO INSIDE WALL OF ENCLOSURE.
3. ITEMS WITH * ARE MOUNTED EXTERNALLY AND NOT SHOWN ON THIS DRAWING.
4. HEIGHT FROM FLOOR TO TOP OF PANEL - 51".

ITEM	QTY	SMI	DESCRIPTION	MFG	CATALOG
1	5	029051	CIRCUIT BREAKER, 1-POLE, 6A, UL489	AB	1489-M1C060
2	1	041760	SOFT START, SMC-3, 37A	AB	150-C37NBD
3	1	032792	MODULE, COMM, ETHERNET I/O ADAPTER	AB	1734-AENT
4	1	036627	POWER SUPPLY, POINT I/O, ISOLATOR	AB	1734-FPD
5	2	036628	MODULE, INPUT, DISCRETE, 8PT	AB	1734-IB8
6	1	036633	MODULE, INPUT, ANALOG, 8PT	AB	1734-IE8C
7	3	036629	MODULE, OUTPUT, DISCRETE, 8PT	AB	1734-OB8
8	2	038474	MODULE, OUTPUT, ANALOG, 2PT	AB	1734-OE2C
9	8	036630	BASE, TERMINATION BLOCK, POINT I/O	AB	1734-TBS
10	1	045160	MODULE, COMM, ASCII, COMPACTLOGIX	AB	1769-ASCI
11	1	810291	END CAP, 1769 SERIES	AB	1769-ECR
12	1	042357	PROCESSOR, COMPACTLOGIX, 1MB	AB	1769-L30ER
13	1	029575	POWER SUPPLY, COMPACTLOGIX, 24VDC, 4A	AB	1769-PB4
14	1	038723	DISCONNECT, FUSED, 60A	AB	194R-160-1753
15	1	041796	HANDLE, DISCONNECT, 4X	AB	194R-PY
16	1	041797	SHAFT, OPERATOR, DISCONNECT	AB	194R-S2
17	2	800016	DIN RAIL, MOUNTING, 1m LONG	AB	199-DR1
18	1	047730	HMI, PV-PLUS 7, 10", COLOR, TOUCH, E-NET	AB	2711P-T10C2D9P
19	1	810069	RELAY, TYPE HB, 3PDT, 24VDC COIL	AB	700-HB33224
20	1	033068	RELAY, TERMINAL BLOCK, SPDT, 24VDC COIL	AB	700-HLT1224
21	1	046427	SOCKET, RELAY, 11-PIN	AB	700-HN154
22	1	810113	LEGEND PLATE, E-STOP, 22.5mm	AB	800F-15YE112
23	2	022984	MOUNTING LATCH, PLASTIC	AB	800F-ALP
24	2	031540	LED MODULE, 24VDC, WHITE	AB	800F-N3W
25	1	022985	CONTACT BLOCK, NCLB	AB	800F-X01L
26	2	022090	CONTACT BLOCK, NO	AB	800F-X10
27	1	028763	PUSHBUTTON, MOM., ILLUM., BLUE, 22.5mm	AB	800FP-LF6
28	1	022982	E-STOP, PUSH/PULL, ILLUM., 22.5mm	AB	800FP-LMT44
29	1	030056	HORN, ALARM, 24V, NEMA4X	AB	855P-B30LE22
30	1	046081	CONTACTOR, 30A, 24VDC COIL	ABB	AF30-30-00-11
31	1	047849	AUXILIARY CONTACT, SIDE MOUNT 1 NO, 1 NC	ABB	CAL4-11
32	3	800973	GROUND LUG, COPPER, #4...#14	BLACKBURN	L70
33	2	810545	FUSE, CLASS CC, 4A	BUSSMANN	FNQ-R-4
34	3	810590	FUSE, CLASS CC, 25A	BUSSMANN	KTK-R-25
35	3	810322	FUSE, CLASS J, 60A	BUSSMANN	LPI-60SP
36	1	042669	CONTACTOR, SOLID-STATE, 30A, 600V 3 LEG, DC	CARLO GAVAZZI	RG3CA60D30GGEDM
37	21	811041	SOOW CORD, 4AWG, 4 COND. (QTY IN FT)	CAROL	16084
38	1	721033	LABEL, SAFETY, HAZARDOUS VOLTAGE	CLARION SAFETY	H6010-03DHPJ
39	1	721028	LABEL, SAFETY, AUTOMATED MACHINE	CLARION SAFETY	H6014-GCWVPJ
40	1	043922	CABLE, 9-PIN FEMALE, 25-PIN FEMALE, 3m	DIGIKEY	1175-1153-ND
41					
42	1	043935	ADAPTER, GENDER, 25-PIN MALE, 25-PIN MALE	DIGIKEY	AE10299-ND
43	1	038470	PRINTER, 120V, RS-232 SERIAL/USB	EPSON	C31CA85014
44	1	038807	PAPER, THERMAL PRINTER, 273FT ROLL	EPSON	SPE-1214
45	1	031543	PORT, 120V GFI, RJ45, NEMA4X	GRACE ENGINEERING	P-R2-K2RF0
46	1	029966	PANEL, 36Hx30W	HOFFMAN	A36P30
47	1	038475	KIT, WINDOW, 8.9" x 9.9", SS	HOFFMAN	AWDH1418N4SS
48	1	032230	ENCL, WATERSHED, 36x30x12, 4X	HOFFMAN	WS363012SS
49	2	033196	COVER, TRANSFORMER, IEC TOUCHPROOF	HPS	FG4
50	1	033200	TRANSFORMER, 750 VA, 240/480Vx120/240V	HPS	PH750MQMJ
51	1	037550	CONNECTOR, CORD, 1.25"-1.38" DIA, 1.5" NPT	HUBBELL	SHC1059
52	2	051344	CABLE, ETHERNET, RJ45-RJ45, 3 FT	MENCOM	RJ45-03
53	2	051345	CABLE, ETHERNET, RJ45-RJ45, 10 FT	MENCOM	RJ45-10
54	1	031754	FUSE HOLDER, 2 POLE, CLASS CC, 30A	MERSEN	USCC2
55	1	038407	FUSE HOLDER, 3 POLE, CLASS CC, 30A	MERSEN	USCC3
*56	3	040797	CABLE, M12, 8-PIN, FEMALE, 5m	MURR	7000-17041-292-0500
*57	3	048689	CABLE, M12, 5-PIN, MALE-FEMALE, 5m	MURR	7000-40041-235-0500
*58	8	048690	CABLE, M12, 5-PIN, MALE-FEMALE, SHIELDED, 5m	MURR	7000-40521-242-0500
59	2	048672	GLAND, 8 PORT, M12, 4X, IP67	MURR	8000-88592-0000000
60	1	800964	WIRE DUCT COVER, 1"Wx6"L	PANDUIT	C1WH6
61	1	800965	WIRE DUCT COVER, 2"Wx6"L	PANDUIT	C2WH6
62	1	800960	WIRE DUCT, SLOTTED, 1"Wx4"Hx6"L	PANDUIT	G1X4WH6
63	1	800961	WIRE DUCT, SLOTTED, 2"Wx4"Hx6"L	PANDUIT	G2X4WH6
64	1	046909	SWITCH, ETHERNET, 5 PORT, SFB 5TX	PHOENIX	2891001
65	1	049398	POWER SUPPLY, 24VDC, 10A	PHOENIX	2904372
66	43	047022	TERMINAL BLOCK, SPRING CLAMP, GRAY, 2 PT PER SIDE	PHOENIX	3209578
67	8	047023	TERMINAL BLOCK, SPRING CLAMP, GREEN, 2 PT PER SIDE	PHOENIX	3209582
68	1	042145	AMPLIFIER, UNIVERSAL, AC/DC	PR ELECTRONICS	4131
69					
70	1	TBD	DUAL CONDUCTIVITY ANALYZER, UL LISTED	ROSEMOUNT	1056-02-21-30AN-UL/4600007-LC
71	4	047100	STANDOFF, 6", 0.5" DIAMETER, NYLON	SANIMATIC	047100
72	1	137198	PLATE, MOUNTING, PRINTER	SANIMATIC	137198
73	1	030673	FILTER, 0.5" NPT, 145 PSI MAX, .3 MICRON	SMC	AFM40-N04-Z
74	3	035091	REGULATOR, .25" NPT, 125 PSI, EMBEDDED GAUGE	SMC	AR20-N02E-Z
75	2	041798	NUT, BRACKET MOUNT, AR20 REGULATORS	SMC	AR20P-2605
76	1	023977	CABLE, CIRCULAR, 25 PIN, 3m, IP67	SMC	AXT-100-MC26-030
77	1	053066	SWITCH, PRESSURE, 0-145 PSI, PNP, IP67	SMC	ISE70-N02-L2
78	1	041199	MANIFOLD, SOLENOID, 7-STA, DUAL VLV, IP67	SMC	SS5V1-W16CD-078-N7
79	1	041200	CABLE, M12, IP67	SMC	ZS-31-B
80	1	810650	SEALING RING, 1.5"	T&B	5266
*81	3	031047	CONNECTOR, EUROFAST, MALE, 5-PIN	TURCK	B58151-0/PG9
*82	8	035227	RECEPTACLE, BULKHEAD, EUROFAST, 5-PIN M	TURCK	FS4.5-0.5/14.5/NPT
83	1	800971	GROUND LUG, COPPER, #1/0...#14	BLACKBURN	L125



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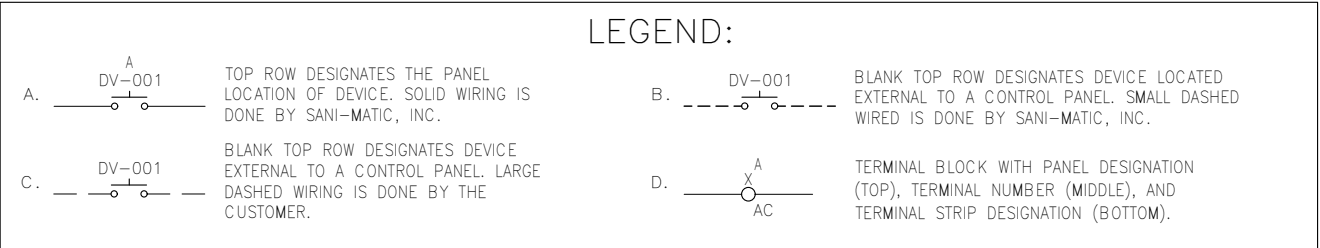
APHENA
ULTRAFLW 110
PANEL LAYOUT

DESIGNED BY	DATE	SCALE	SHEET NO	REV
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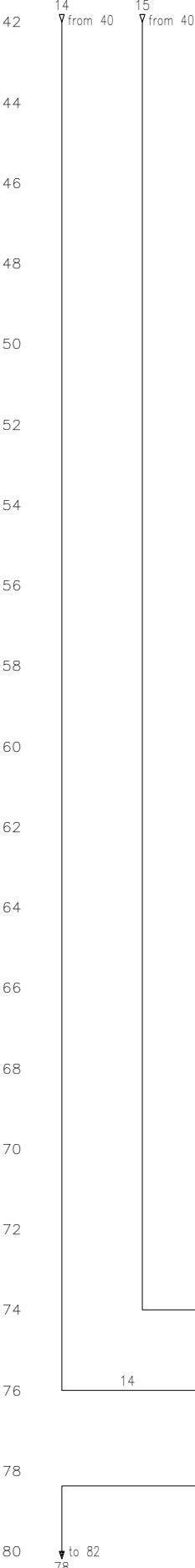
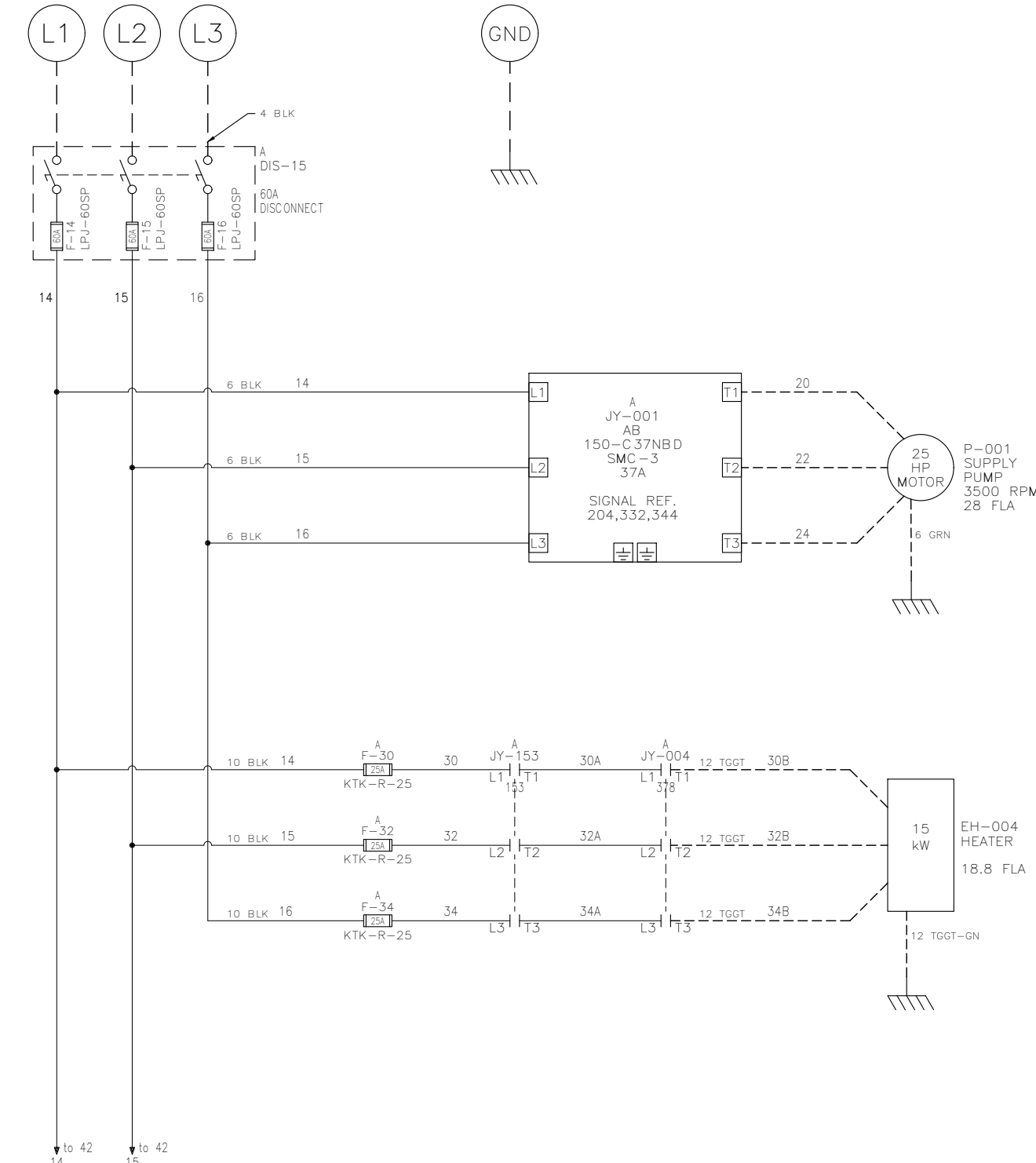
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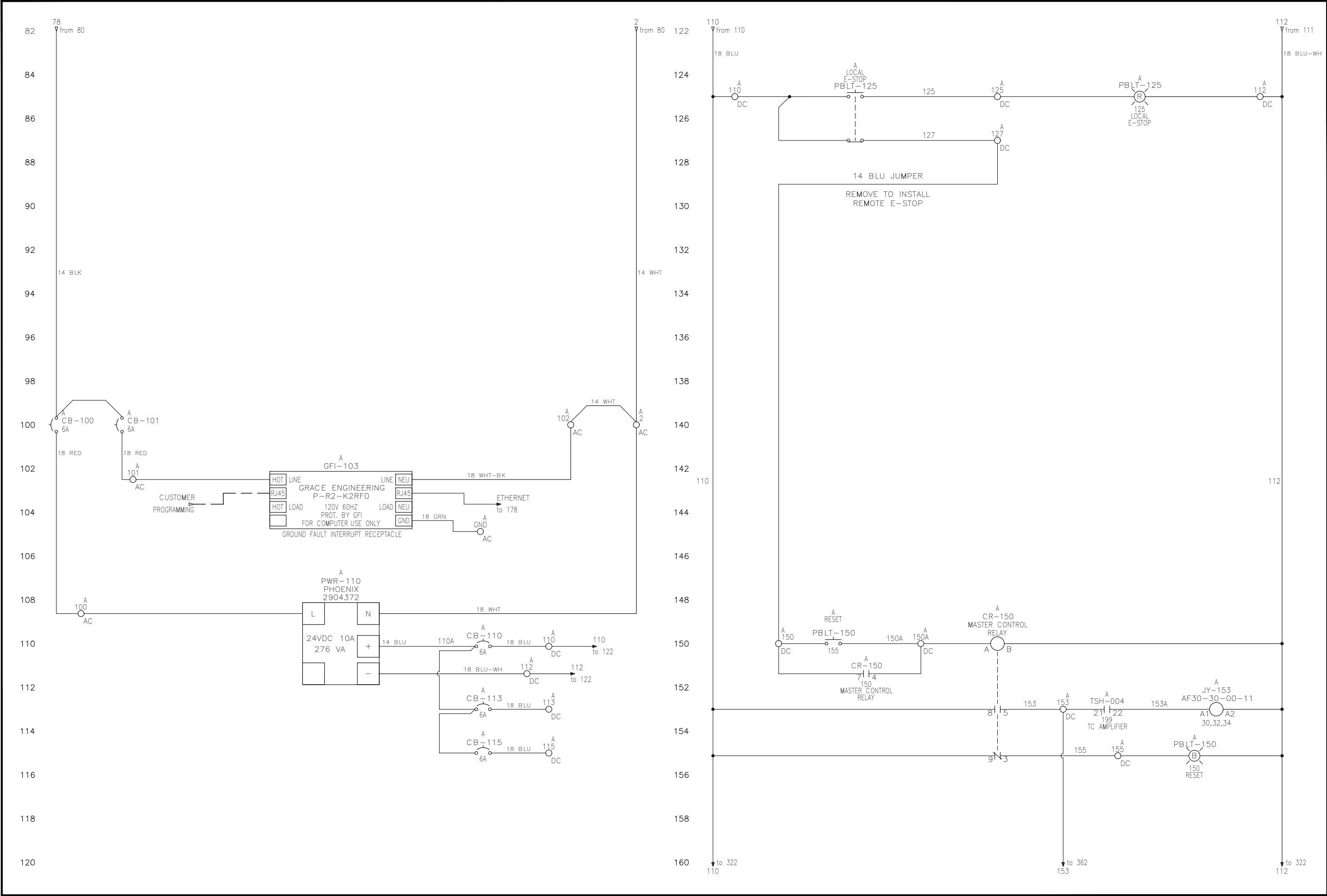
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C	AS BUILT	07-15-2020		
B	PER SMI TESTING	04-14-2020		
A	RELEASED FOR APPROVAL	12-20-2019		


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460V, 60A, 3 ϕ , 60 Hz
CUSTOMER SUPPLIED POWER SOURCE



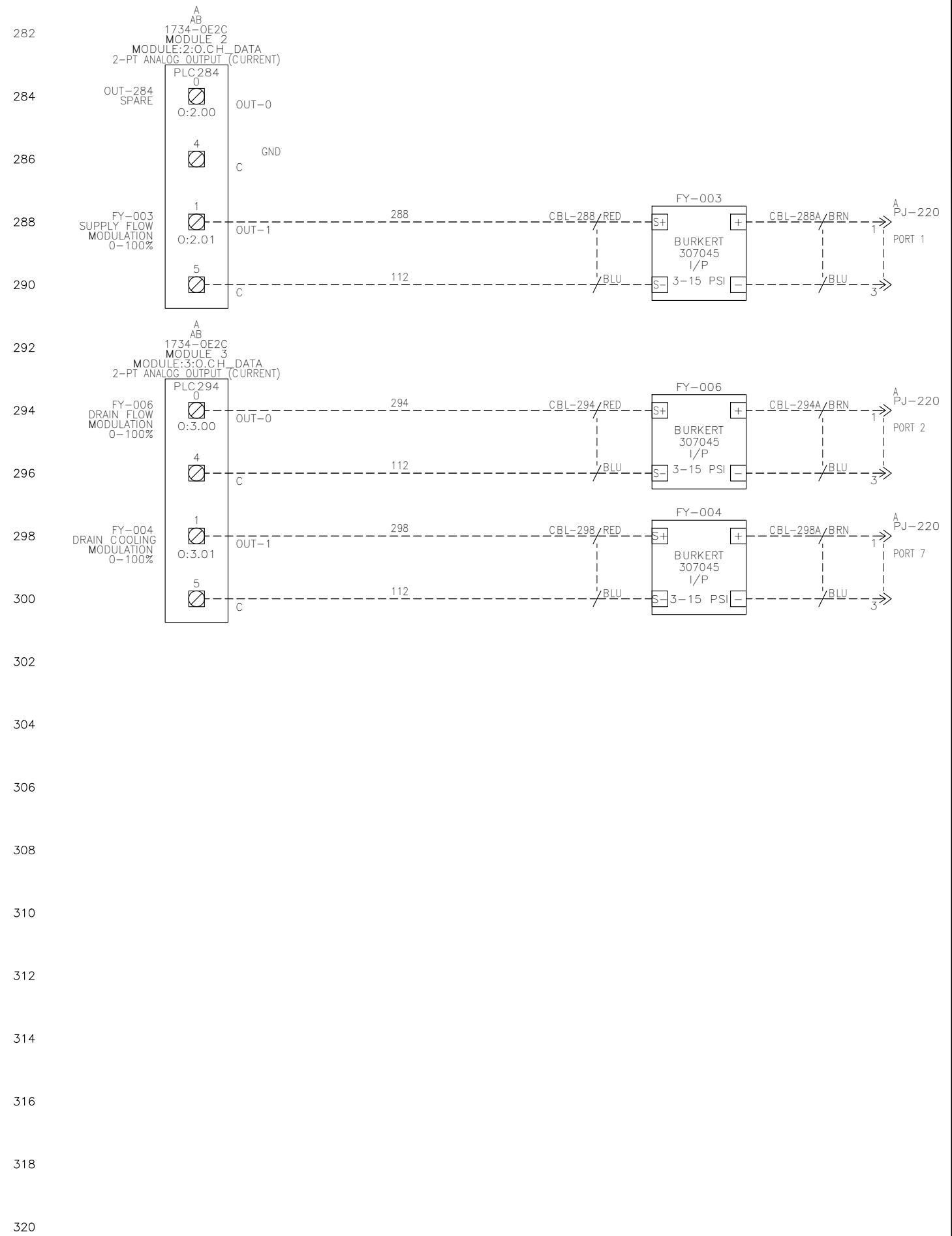
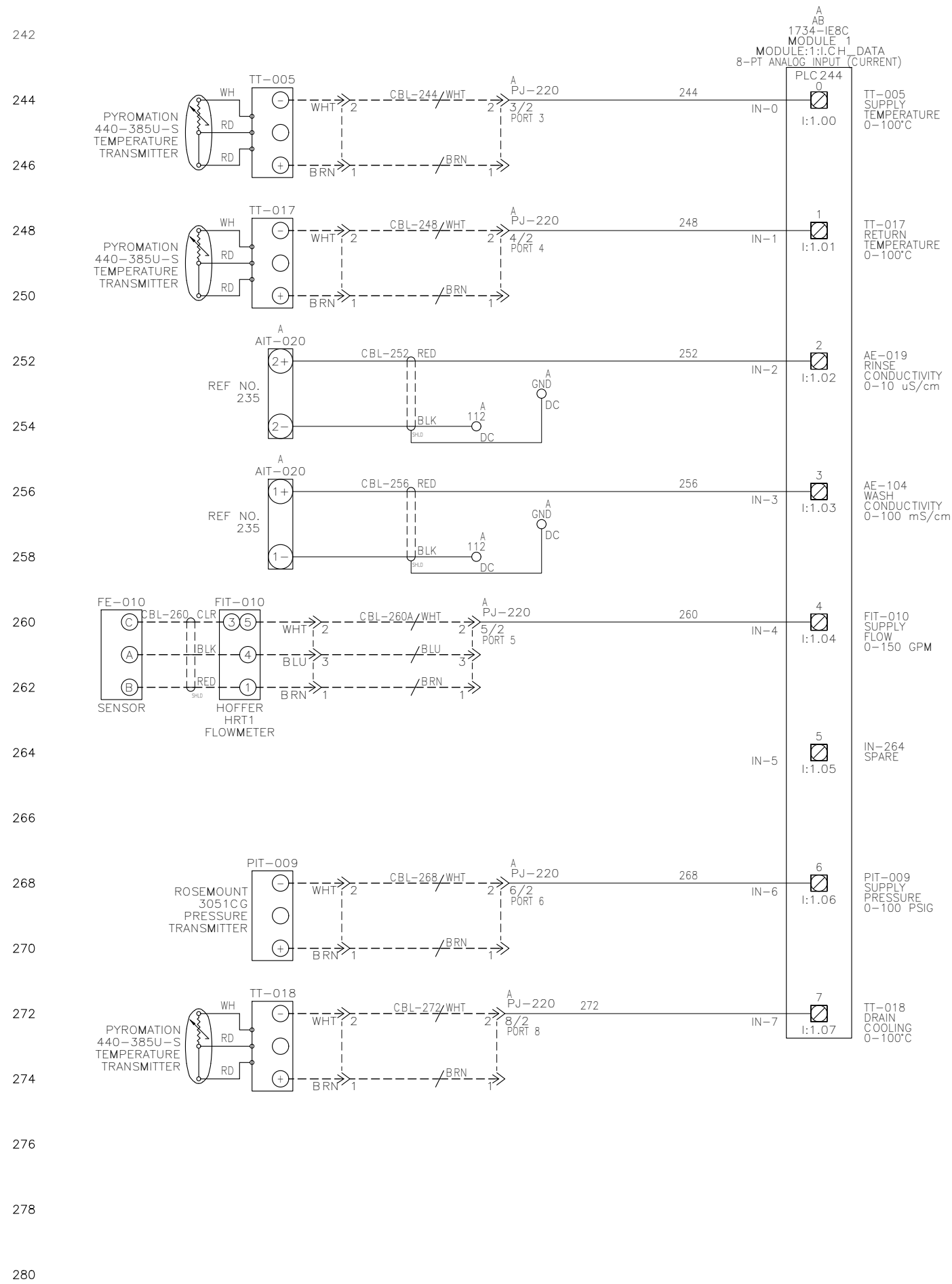


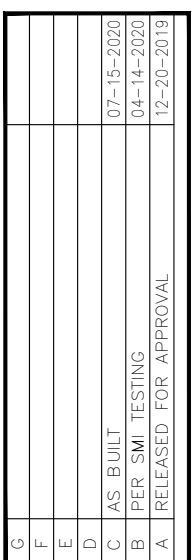
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APHENA ULTRAFLOW 110 SCHEMATIC				DESIGN NO. 839721-02	REV. C
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CHECKED BY RBM	DATE 12-11-2019				

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B	PER SMI TESTING	04-14-2020			
A	RELEASED FOR APPROVAL	12-20-2019			








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APHENA ULTRAFLOW 110 SCHEMATIC			
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			SHEET NO PAGE 06 OF 06
CHECKED BY RBM	SCALE NONE	DATE 12-11-2019	

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B	PER SMI TESTING 04-14-2020
A	RELEASED FOR APPROVAL 12-20-2019


LEGEND



BULKHEAD



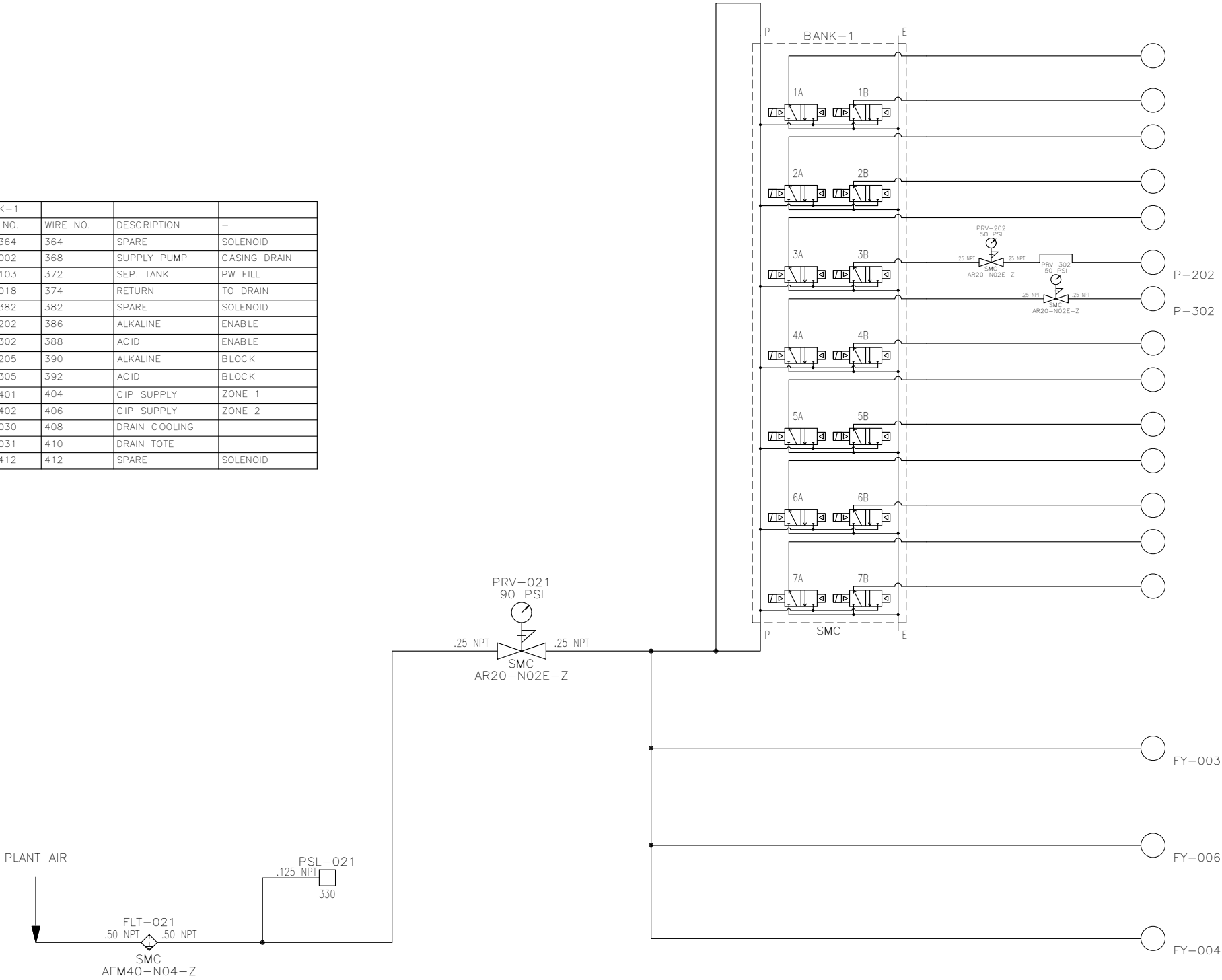
FILTER




REGULATOR

BANK - 1			
TAG NO.	WIRE NO.	DESCRIPTION	
SV-364	364	SPARE	SOLENOID
XY-002	368	SUPPLY PUMP	CASING DRAIN
XY-103	372	SEP. TANK	PW FILL
XY-018	374	RETURN	TO DRAIN
SV-382	382	SPARE	SOLENOID
XY-202	386	ALKALINE	ENABLE
XY-302	388	ACID	ENABLE
XY-205	390	ALKALINE	BLOCK
XY-305	392	ACID	BLOCK
XY-401	404	CIP SUPPLY	ZONE 1
XY-402	406	CIP SUPPLY	ZONE 2
XY-030	408	DRAIN COOLING	
XY-031	410	DRAIN TOTE	
SV-412	412	SPARE	SOLENOID

SKID-MOUNTED DEVICES





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APHENA
ULTRAFLOW 110
PNEUMATICS

DRAWN BY

MJM

CHECKED BY

RBM

JOB NO

10765701

SCALE

NONE

DATE

12-11-2019

DWG NO

839722

SHEET NO

PAGE 01 OF 01

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B	PER SMI TESTING	04-14-2020		
A	RELEASED FOR APPROVAL	12-20-2019		

