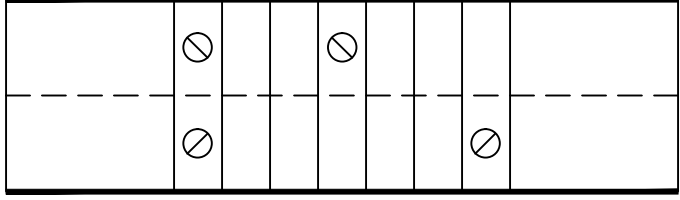
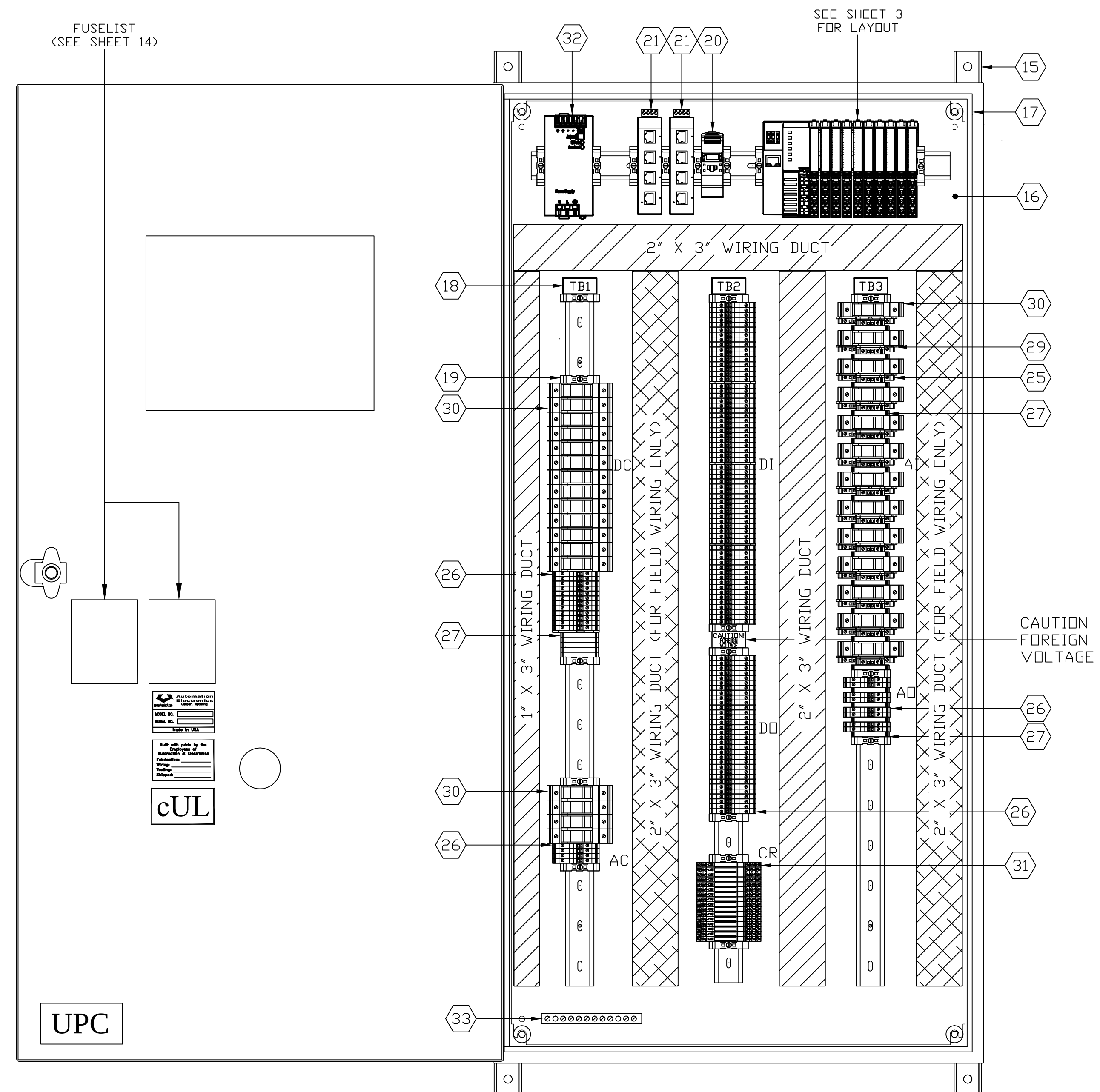
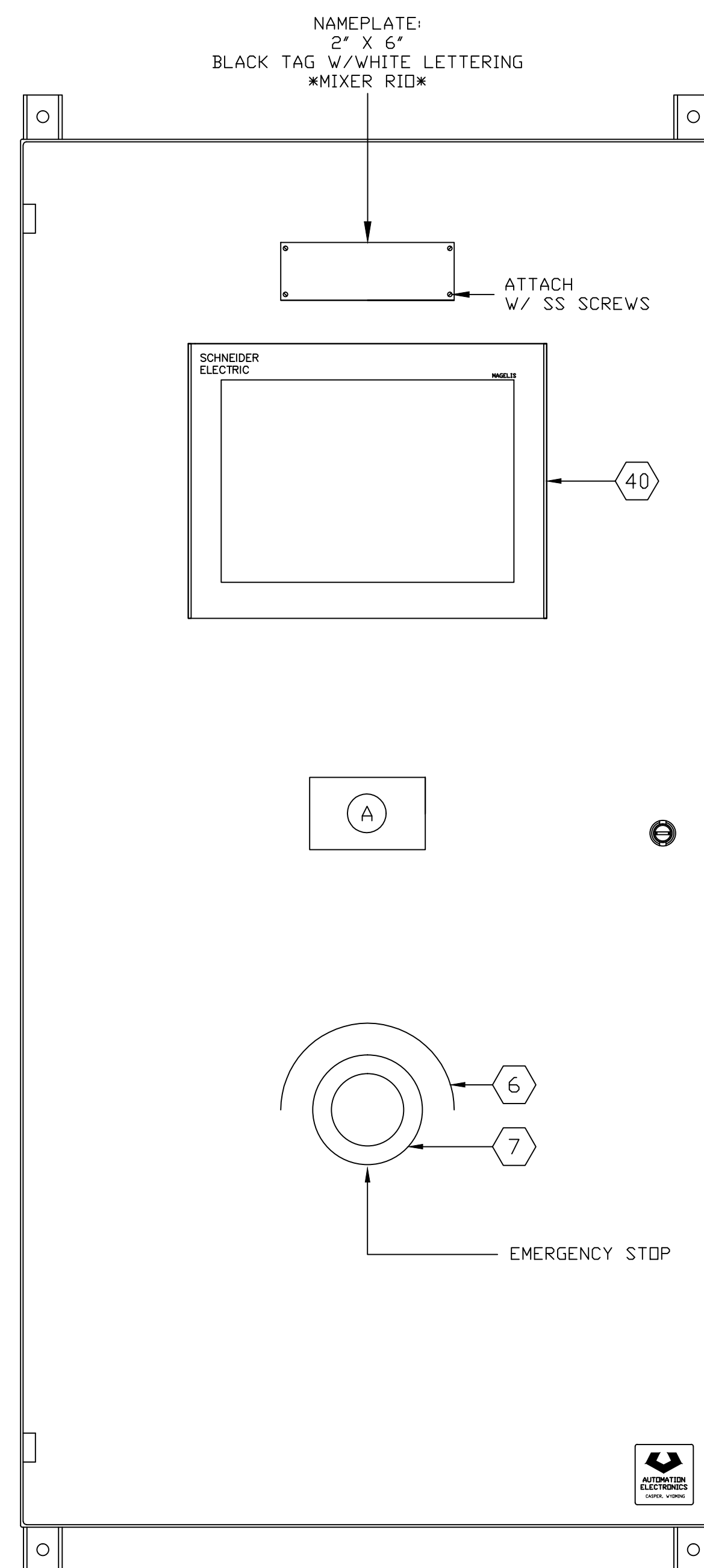


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P			
01	BILL OF MATERIALS												PROJECT SPECIFIC LEGEND						
02	MARK	COUNT	DESCRIPTION	MANUFACTURER	CATALOG	MARK	COUNT	DESCRIPTION	MANUFACTURER	CATALOG	30  - CLASS CC AC FUSEHOLDER, UK10.3 HESI N 30  - CLASS CC DC FUSEHOLDER, UK10.3 HESI N 26  - TERMINAL BLOCK, UT4-MTD 27  - GROUND TERMINAL BLOCK, UT4-MTD-PE/S 24  - DOUBLE LEVEL TERMINAL BLOCK, UTTB4-TG								
03	1	1	POINT I/O ETHERNET MODULE	AB	1734-AENT	35	2	COMB JUMPER, EB10-6	PHOENIX CONTACT	0201139									
04	2	4	POINT I/O, 8 POINT DC SINK INPUT MODULE	AB	1734-IB8	36	16	END CAP DP-UTTB	PHOENIX CONTACT	3047303									
05	3	2	DC CHANNEL STD	AB	1734-OB8	37	1	5 POSITION CENTERLINE	PHOENIX CONTACT	3030349									
06	4	1	ANALOG OUTPUT MODULE 4 CHANNEL CURRENT POINT I/O	AB	1734-OE4C	38	1	10 POSITION CENTERLINE	PHOENIX CONTACT	3030271									
07	5	11	TERMINAL BASE UNIT	AB	1734-TBS	39	1	C1D2 CONTACT BLOCK	CUTLER HAMMER	10250TD31H									
08	6	1	PUSHBUTTON GUARD	CUTLER HAMMER	10250ED1241	40	1	MAGELIS 12.5 PANEL	SCHNEIDER ELECTRIC	HMIGT06310									
09	7	1	ESD PUSHBUTTON W/ 1 N.O AND 1 N.C CONTACT BLOCK	CUTLER HAMMER	10250T5J63-1X	41	1	7' ORANGE CAT5 CABLE	FIS	CT608007OR									
10	8	16	FUSE, FAST ACTING, 1/2 AMP	FERRAZ SHAWMUT	ATMR1/2	cUL C1D2													
11	9	2	FUSE, SLOW ACTING, 1 AMP FUSE	FERRAZ SHAWMUT	ATDR1														
12	10	11	FUSE, FAST ACTING, 1 AMP	FERRAZ SHAWMUT	ATMR1														
13	11	2	FUSE, FAST ACTING, 3 AMP	FERRAZ SHAWMUT	ATMR3														
14	12	1	FUSE, SLOW ACTING, 5 AMP	FERRAZ SHAWMUT	ATDR5														
15	13	1	FUSE, FAST ACTING, 10 AMP	FERRAZ SHAWMUT	ATMR10														
16	14	2	3' RED CAT5 CABLE	FIS	CT6008003RD														
17	15	1	MOUNTING FOOT KIT	HOFFMAN	CMFK														
18	16	1	BACK PANEL, 48X24, WHITE	HOFFMAN	CP4824														
19	17	1	ENCLOSURE, 48X24X10, NEMA 4, 12	HOFFMAN	CSD482410														
20	18	4	MARKER CARRIER, UBE/D	PHOENIX CONTACT	0800307														
21	19	21	END ANCHOR, E/NS 35N	PHOENIX CONTACT	0800886														
22	20	1	ETHERNET PUNCHDOWN BLOCK	PHOENIX CONTACT	1658118														
23	21	2	ETHERNET SWITCH, 5 TP RJ45 PORTS	PHOENIX CONTACT	2891152														
24	22	1	JUMPER BAR, EB 56-18	PHOENIX CONTACT	3009299														
25	23	1	CONTINUOUS PLUG-IN BRIDGE - FBST 500-PLC RD	PHOENIX CONTACT	2966786														
26	24	7	20 POSITION, CENTERLINE JUMPER, FBS 20-6	PHOENIX CONTACT	3030365														
27	25	16	TERMINAL BLOCK, DOUBLE LEVEL, UTTB 4	PHOENIX CONTACT	3044814														
28	26	121	TERMINAL BLOCK, SINGLE LEVEL, UT 4-MTD	PHOENIX CONTACT	3046184														
29	27	25	GROUND TERMINAL BLOCK, SINGLE LEVEL, UT4-MTD-PE/S	PHOENIX CONTACT	3046207														
30	28	5	END COVER, D-UT2,5/4-TWIN	PHOENIX CONTACT	3047141														
31	29	16	END COVER, DOUBLE LEVEL, ATP-UTTB 2,5/4	PHOENIX CONTACT	3047316														
32	30	33	FUSEHOLDER, UK10, 3-CC HESI N	PHOENIX CONTACT	3048580														
33	31	16	C1D2 RELAY 24VDC	PHOENIX CONTACT	5603154														
34	32	1	POWER SUPPLY, 24VDC, 10A	PULS	CS10.241														
35	33	1	GROUND BUS BAR	SIEMENS	ECGB10														
36	34	4	POINT I/O 4 CHANNEL ANALOG INPUT	SPECTRUM	1734SC-IE4CH														
X																			
2	11/19/14	UPDATES	RB	KM	DESIGNED SMT	DRAFTED EJ	IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY		This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.		PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com		TITLE: ARC RESOURCES POLYMER PLANT BILL OF MATERIALS, NOTES, & LEGEND MIXER RIO			CUSTOMER: FABRICATION TECHNOLOGIES, INC,			
1	10/28/14	SHOP UPDATES	RB	EJ	P.O. NO.:									SHEET 1 OF 14		DRAWING NUMBER:		REV.	
0	9/12/14	SHOP AS-BUILT	CG	EJ	SCALE:									JOB NO.: 7103-03_08		D-30222		2	
CAD FILE: D-30222-01-BOM		DATE: 11/19/14		BY: DR.		NTS													



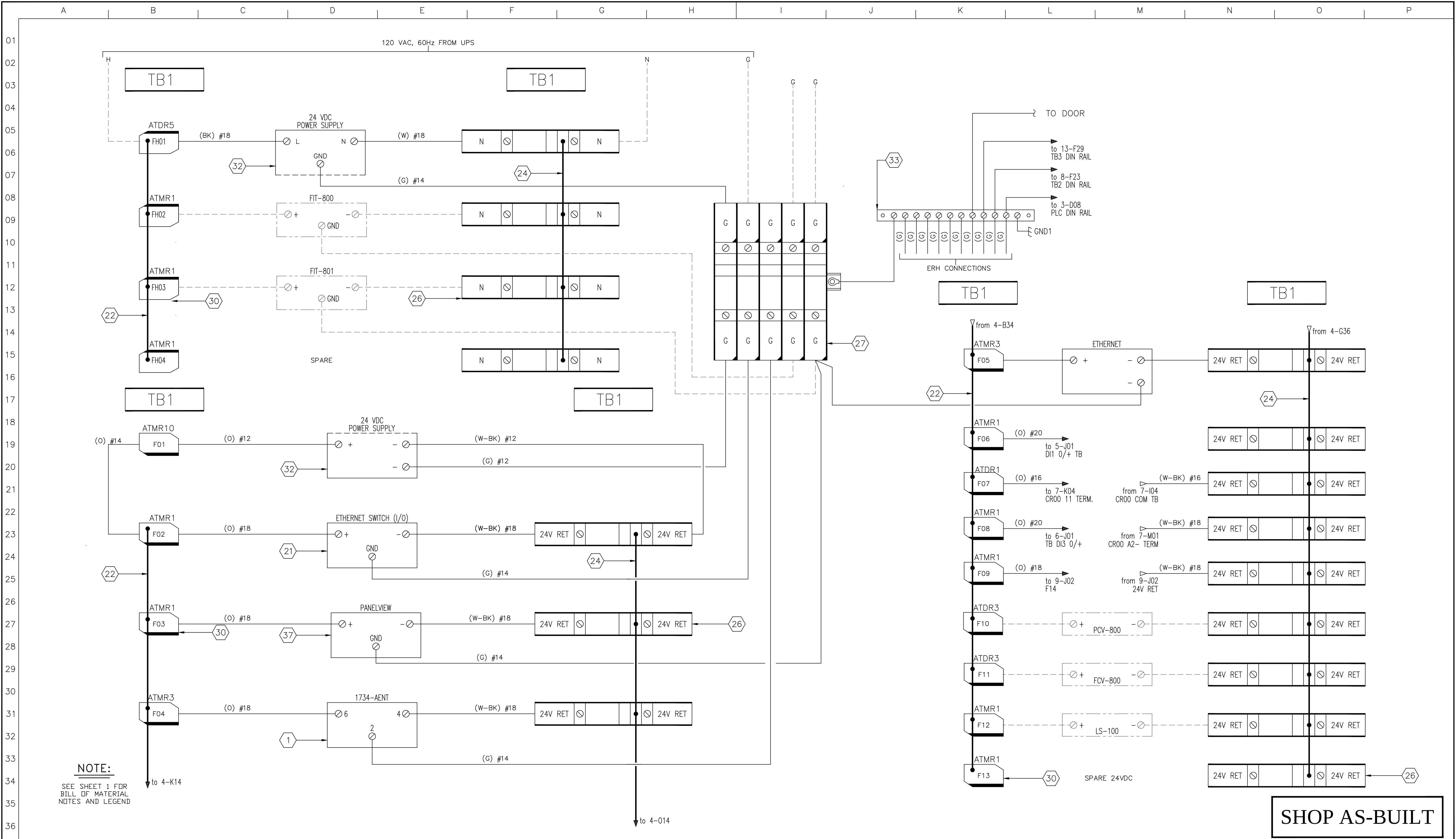
NOTE:

SEE SHEET 1 FOR
BILL OF MATERIAL
NOTES AND LEGEND

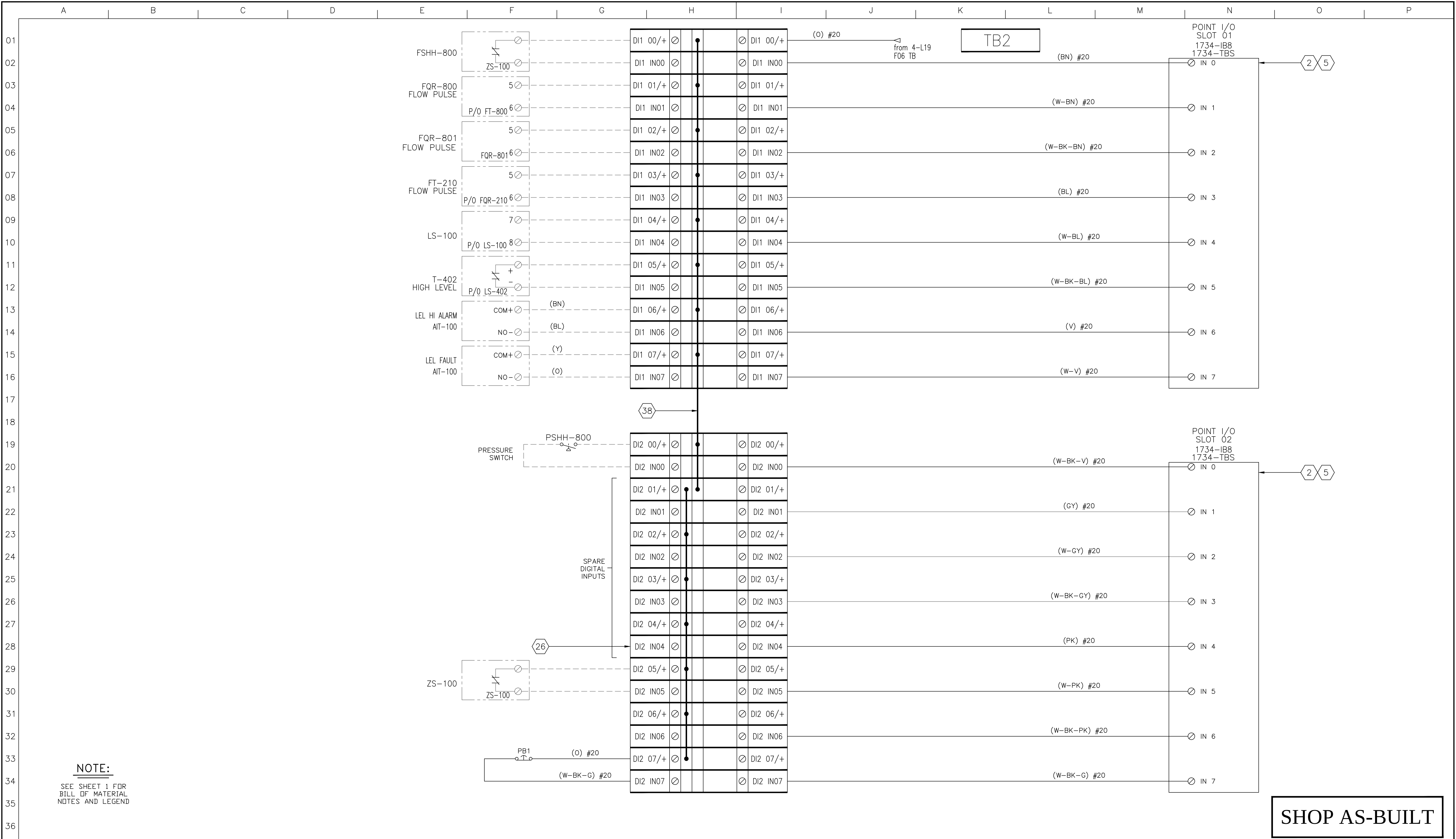
DETAIL "A"

SHOP AS-BUILT

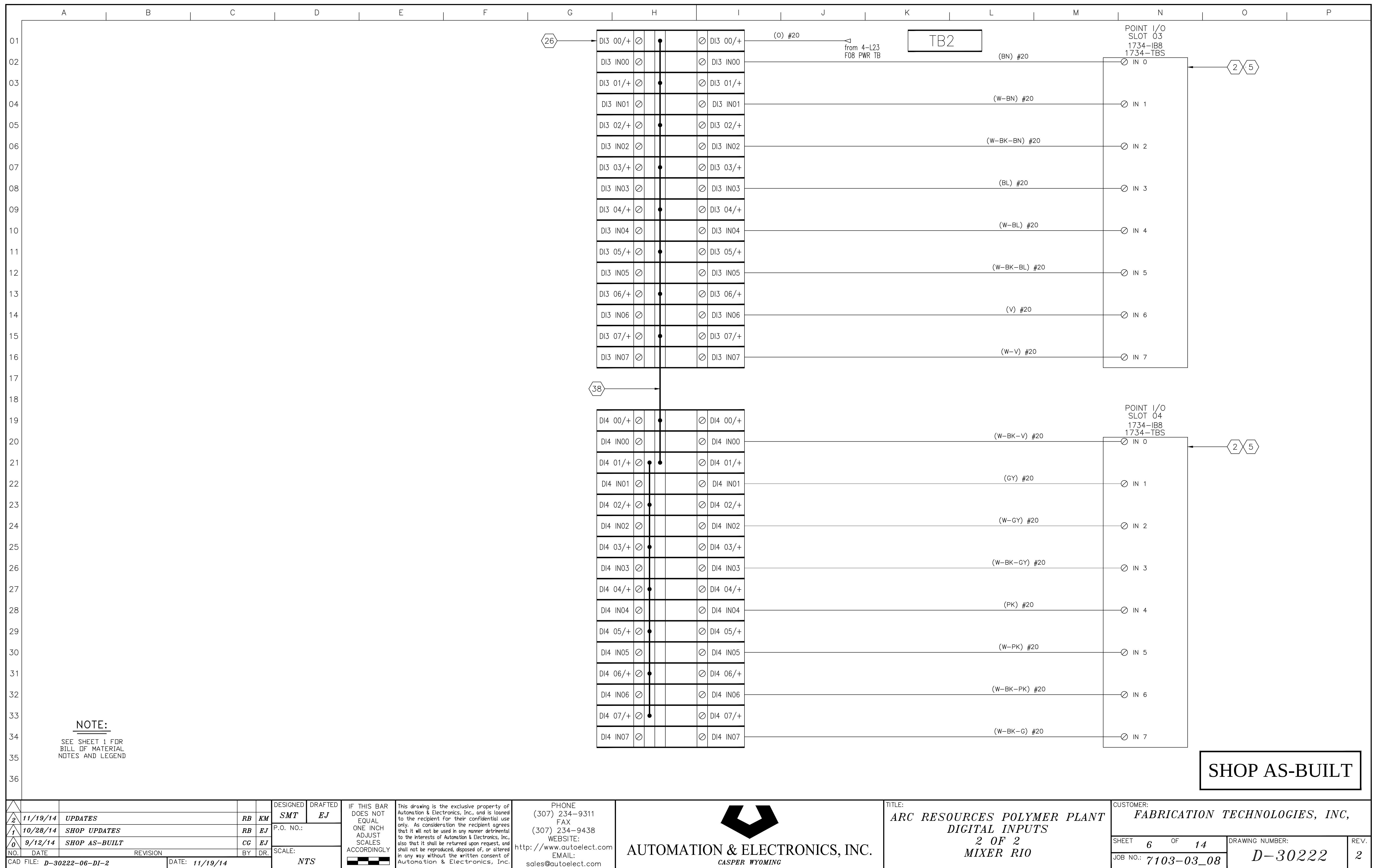
						DESIGNED	DRAFTED	IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY		This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.	PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com	 AUTOMATION & ELECTRONICS, INC. <i>CASPER WYOMING</i>	TITLE:	CUSTOMER:	
2	11/19/14	UPDATES			<i>RB KM</i>	<i>SMT</i>	<i>EJ</i>								<i>ARC RESOURCES POLYMER PLANT FABRICATION TECHNOLOGIES, INC,</i>
1	10/28/14	SHOP UPDATES			<i>RB EJ</i>	P.O. NO.:									
0	9/12/14	SHOP AS-BUILT			<i>CG EJ</i>	SCALE:	<i>NTS</i>								
NO.	DATE	REVISION	BY	DR.											
CAD FILE: D-30222-02-48X24-PL			DATE: 11/19/14												
											JOB NO.: 7103-03_08	MIXER RIO	DRAWING NUMBER: D-30222	REV. 2	

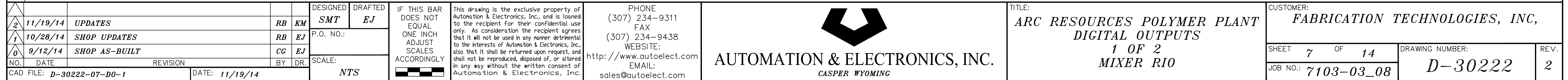


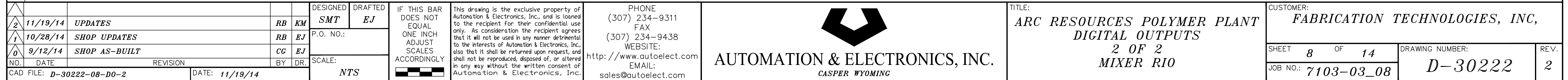
						DESIGNED		DRAFTED		IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY		This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.		PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com		 AUTOMATION & ELECTRONICS, INC. <i>CASPER WYOMING</i>		TITLE: ARC RESOURCES POLYMER PLANT POWER WIRING DIAGRAM MIXER RIO		CUSTOMER: FABRICATION TECHNOLOGIES, INC.					
2		11/19/14		UPDATES		RB		KM														P.O. NO.:			
1		10/28/14		SHOP UPDATES		RB		EJ																	
0		9/12/14		SHOP AS-BUILT		CG		EJ														SCALE:		NTS	
NO.		DATE		REVISION		BY		DR.																	
CAD FILE:		D-30222-04-PWR		DATE:		11/19/14																			



						DESIGNED	DRAFTED	IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY	This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.	PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com		AUTOMATION & ELECTRONICS, INC. CASPER WYOMING	TITLE: ARC RESOURCES POLYMER PLANT DIGITAL INPUTS 1 OF 2 MIXER RIO	CUSTOMER: FABRICATION TECHNOLOGIES, INC.	
2	11/19/14	UPDATES	RB	KM	P.O. NO.:										
1	10/28/14	SHOP UPDATES	RB	EJ	SCALE:										
0	9/12/14	SHOP AS-BUILT	CC	EJ	NTS										
NO. DATE		REVISION		BY	DR.										
CAD FILE: D-30222-05-DI-1				DATE: 11/19/14											

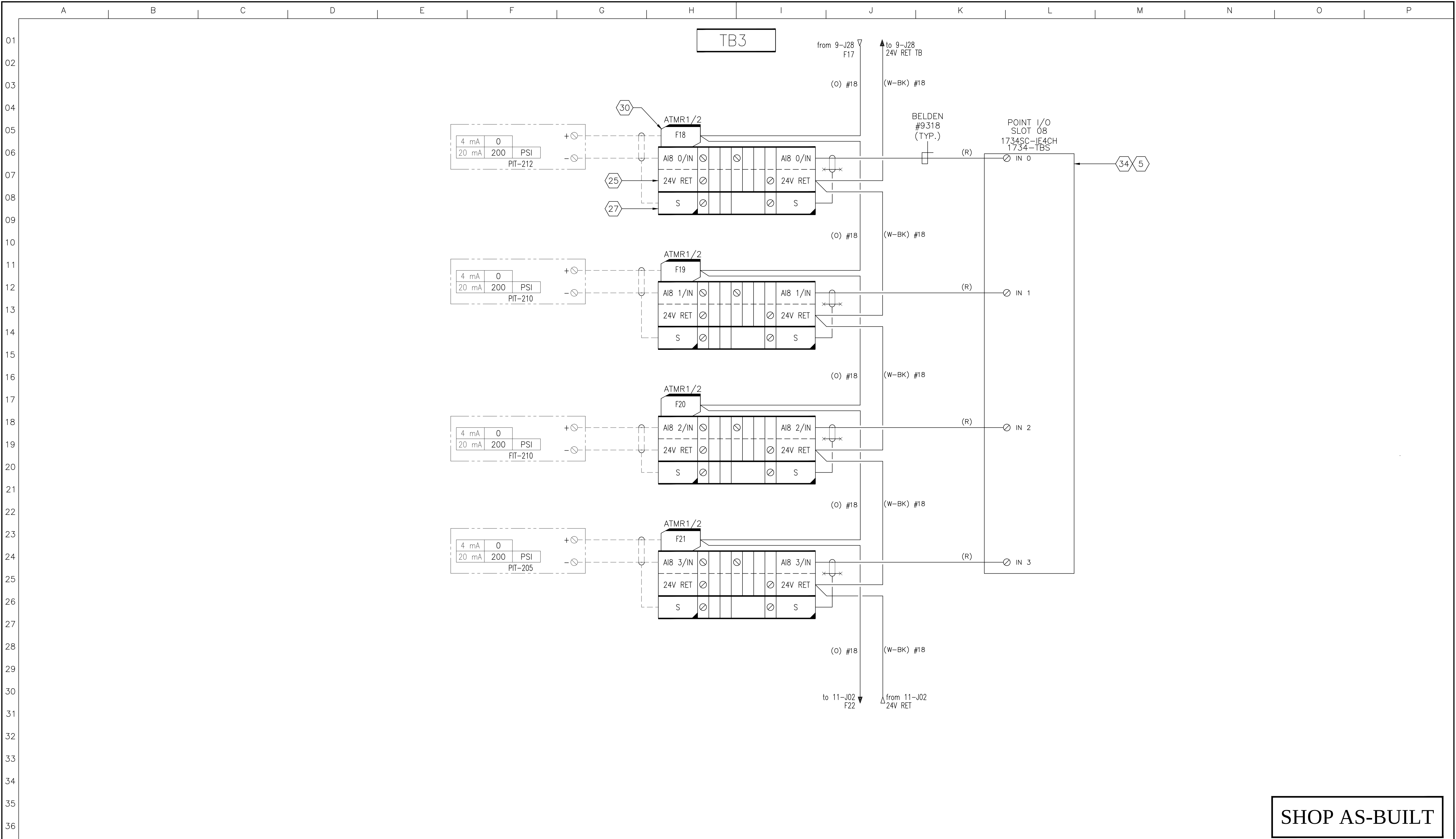






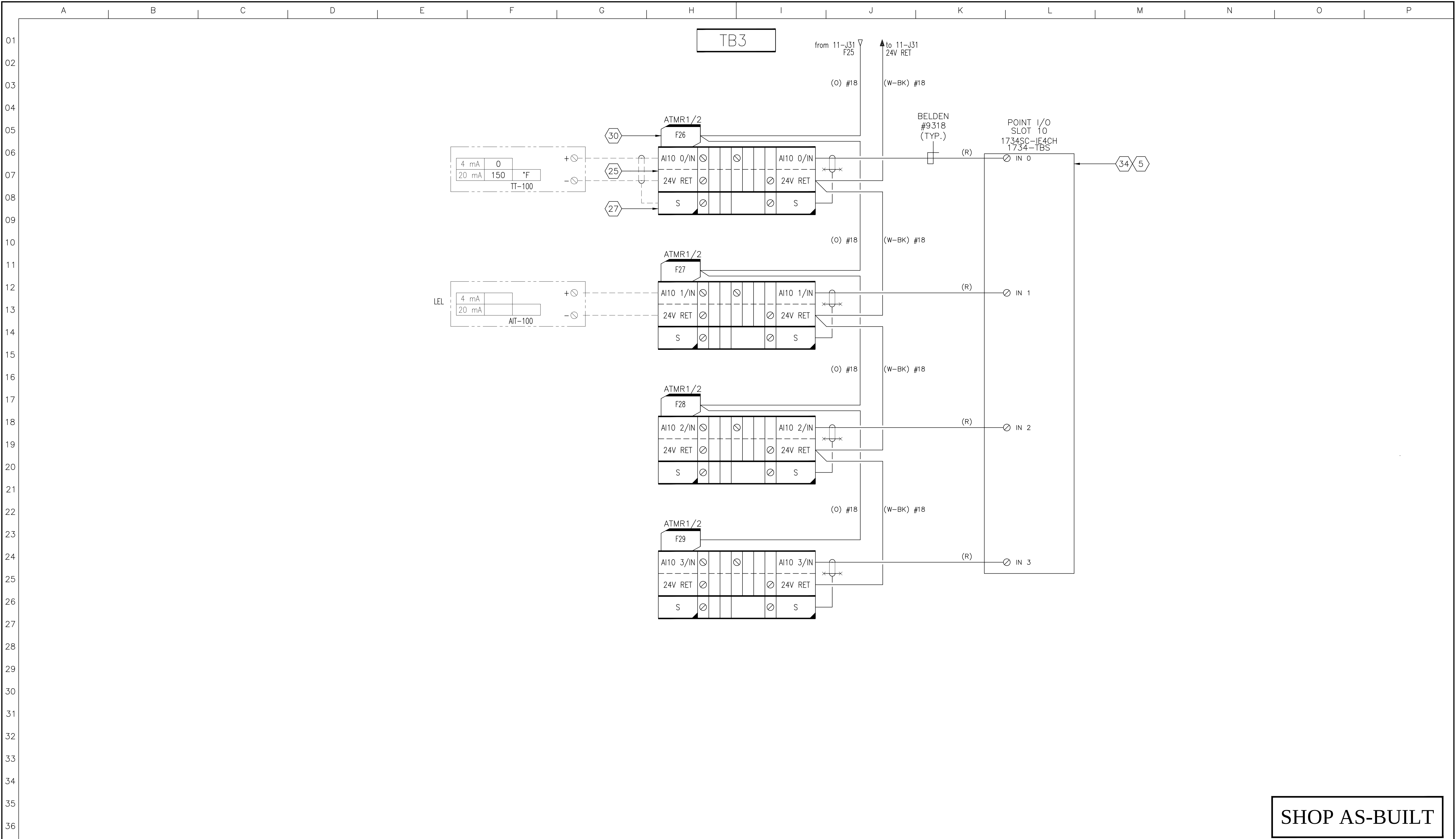


						DESIGNED		DRAFTED		IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY 		This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc. also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.		PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com		 AUTOMATION & ELECTRONICS, INC. CASPER, WYOMING		TITLE: ARC RESOURCES POLYMER PLANT ANALOG INPUTS 1 OF 4 MIXER RIO				CUSTOMER: FABRICATION TECHNOLOGIES, INC.							
2		11/19/14		UPDATES		RB		KM																		SMT		EJ	
1		10/28/14		SHOP UPDATES		RB		EJ																		P.O. NO.:			
0		9/12/14		SHOP AS-BUILT		CG		EJ																		SCALE:		NTS	
NO.		DATE		REVISION		BY		DR:																					
CAD FILE: D-30222-09-AI-1						DATE: 11/19/14																							



SHOP AS-BUILT

						DESIGNED		DRAFTED		IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY		This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.		PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com				AUTOMATION & ELECTRONICS, INC.		CASPER WYOMING		TITLE: ARC RESOURCES POLYMER PLANT ANALOG INPUTS 2 OF 4 MIXER RIO		CUSTOMER: FABRICATION TECHNOLOGIES, INC.		SHEET 10 OF 14 DRAWING NUMBER: D-30222 REV. 2											
2		11/19/14		UPDATES		RB		KM																				SMT		EJ		P.O. NO.:					
1		10/28/14		SHOP UPDATES		RB		EJ																													
0		9/12/14		SHOP AS-BUILT		CG		EJ																													
NO.		DATE		REVISION		BY		DR.																				SCALE:		NTS							
CAD FILE: D-30222-10-AI-2										DATE: 11/19/14																											



SHOP AS-BUILT



						DESIGNED		DRAFTED		IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY 		This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc. also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.		PHONE (307) 234-9311 FAX (307) 234-9438 WEBSITE: http://www.autoelect.com EMAIL: sales@autoelect.com		 AUTOMATION & ELECTRONICS, INC. CASPER, WYOMING		TITLE: ARC RESOURCES POLYMER PLANT ANALOG OUTPUTS MIXER RIO		CUSTOMER: FABRICATION TECHNOLOGIES, INC. SHEET 13 OF 14 DRAWING NUMBER: D-30222 REV. 2							
2		11/19/14		UPDATES		RB		KM																SMT		EJ	
1		10/28/14		SHOP UPDATES		RB		EJ																P.O. NO.:			
0		9/12/14		SHOP AS-BUILT		CG		EJ																SCALE:		NTS	
NO.		DATE				REVISION		BY																DR.			
CAD FILE: D-30222-13-A0				DATE: 11/19/14																							



FUSE	SIZE	CLASS	TYPE	PART	RATING
FH01	CLASS	CC	SLOW	ATDR5	5A
FH02	CLASS	CC	FAST	ATMR1	1A
FH03	CLASS	CC	FAST	ATMR1	1A
FH04	CLASS	CC	FAST	ATMR1	1A
F01	CLASS	CC	FAST	ATMR10	10A
F02	CLASS	CC	FAST	ATMR1	1A
F03	CLASS	CC	FAST	ATMR1	1A
F04	CLASS	CC	FAST	ATMR3	3A
F05	CLASS	CC	FAST	ATMR3	3A
F06	CLASS	CC	FAST	ATMR1	1A
F07	CLASS	CC	SLOW	ATDR1	1A
F08	CLASS	CC	FAST	ATMR1	1A
F09	CLASS	CC	FAST	ATMR1	1A
F10	CLASS	CC	SLOW	ATDR3	3A
F11	CLASS	CC	FAST	ATDR3	3A
F12	CLASS	CC	FAST	ATMR1	1A
F13	CLASS	CC	FAST	ATMR1	1A
F14	CLASS	CC	FAST	ATMR1/2	1/2A
F15	CLASS	CC	FAST	ATMR1/2	1/2A
F16	CLASS	CC	FAST	ATMR1/2	1/2A
F17	CLASS	CC	FAST	ATMR1/2	1/2A
F18	CLASS	CC	FAST	ATMR1/2	1/2A
F19	CLASS	CC	FAST	ATMR1/2	1/2A
F20	CLASS	CC	FAST	ATMR1/2	1/2A
F21	CLASS	CC	FAST	ATMR1/2	1/2A
F22	CLASS	CC	FAST	ATMR1/2	1/2A
F23	CLASS	CC	FAST	ATMR1/2	1/2A
F24	CLASS	CC	FAST	ATMR1/2	1/2A
F25	CLASS	CC	FAST	ATMR1/2	1/2A
F26	CLASS	CC	FAST	ATMR1/2	1/2A
F27	CLASS	CC	FAST	ATMR1/2	1/2A
F28	CLASS	CC	FAST	ATMR1/2	1/2A
F29	CLASS	CC	FAST	ATMR1/2	1/2A

JOB # 7103-03 / D-30222

Ferraz Shawmut GGM Series	250VAC $\leq$ 3A, 3A<125VAC
Ferraz Shawmut ATDR Series	600VAC/300VDC
Ferraz Shawmut ATMR Series	600VAC/600VDC
Littelfuse 239 Series	250VAC $\leq$ 3.5A, 3.5A<125VAC
Littelfuse FLM Series	250VAC/125VDC
Littelfuse KLDR Series	600VAC/300VDC

SHOP AS-BUILT

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2	11/19/14	UPDATES	RB	KM	SMT					EJ	ARC RESOURCES POLYMER PLANT	FABRICATION TECHNOLOGIES, INC,		
1	10/28/14	SHOP UPDATES	RB	EJ	P.O. NO.:						FUSE LIST	SHEET 14 OF 14	DRAWING NUMBER:	REV. 2
0	9/12/14	SHOP AS-BUILT	CG	EJ	SCALE:					NTS	MIXER RIO	JOB NO.: 7103-03_08	D-30222	
NO.	DATE	REVISION	BY	DR.										
CAD FILE:	D-30222-14-FL		DATE: 11/19/14											