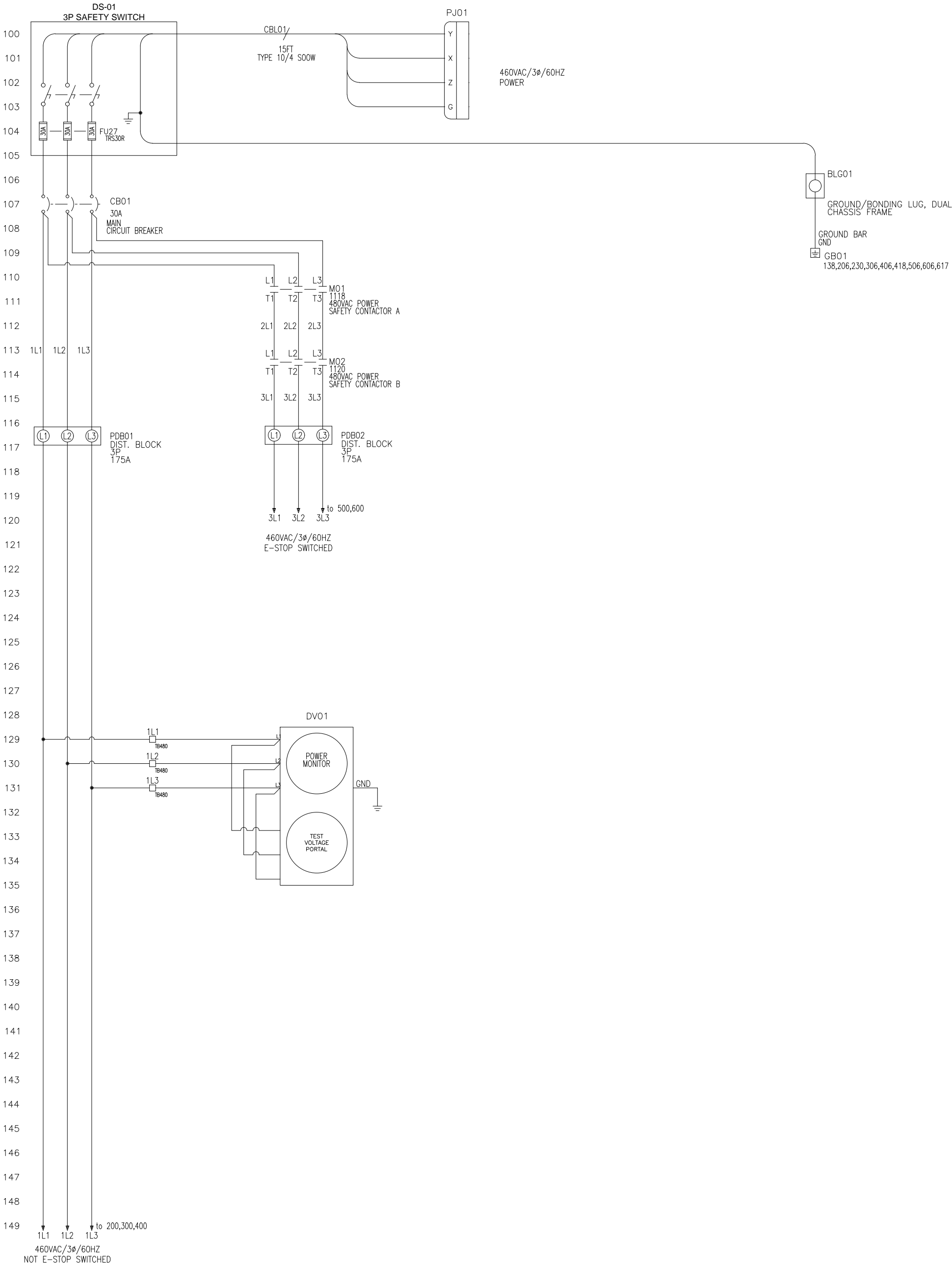


SCCR = 65 kAIC

30A TWIST LOCK
POWER PLUG



LEGEND

1351	WIRED BY CPI	*	SUPPLIED BY BERKSHIRE GREY	<input type="checkbox"/>	TERMINAL LOCATED IN PANEL CPI-PLC
1352	WIRED BY OTHERS				

BG | **BERKSHIRE
GREY**

Control Panels, Inc.

TITLE
**GENERIC
2-DOOR PANEL**

0 3/27/19 MDC AS-BUILT

REV. NO. DATE INITIALS DESCRIPTION

CUSTOMER.

SCALE

DRAWN DCREEL

CHK'D

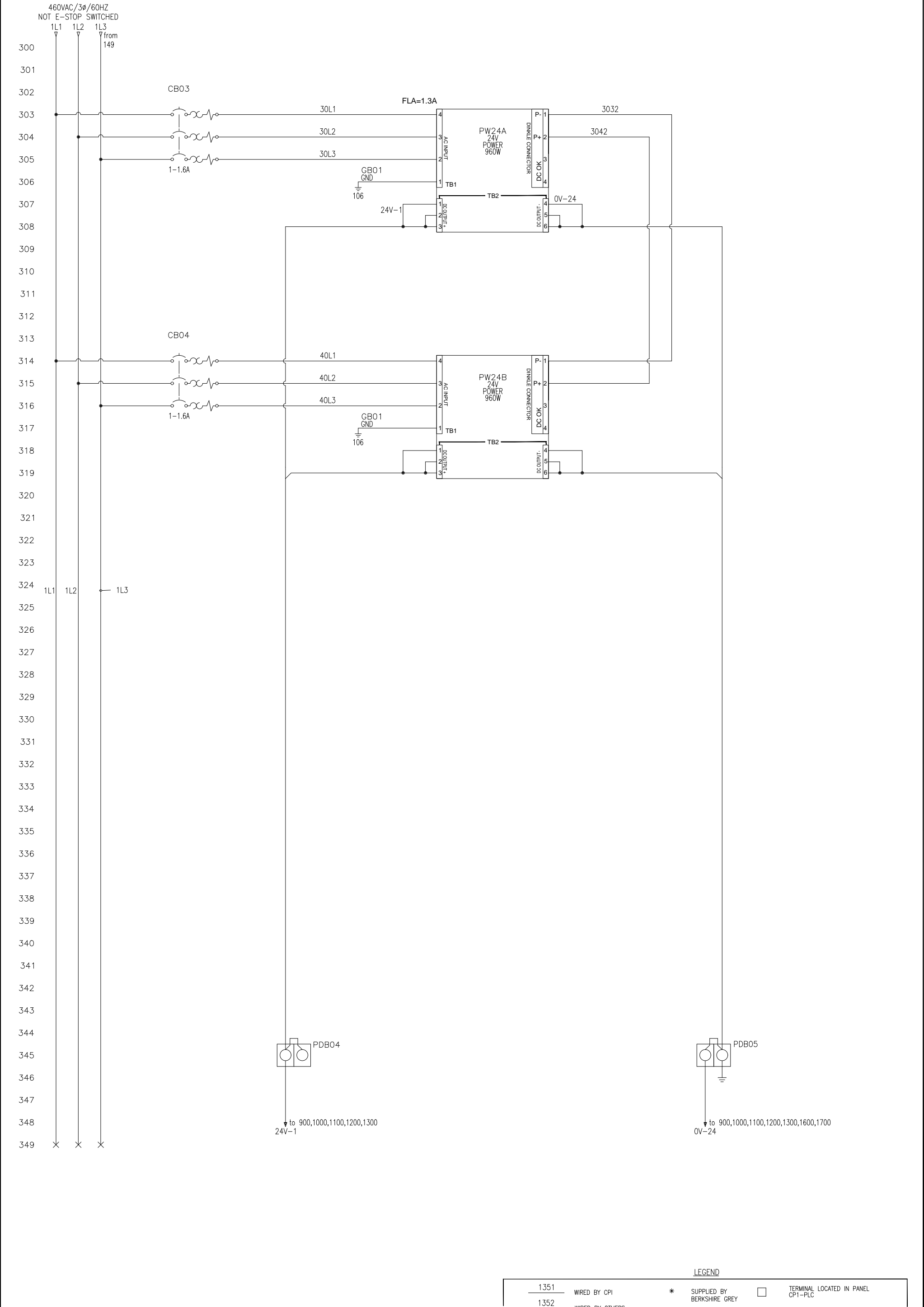
DATE 03/27/2010


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SHT 01 of 22

PROJECT NO.
SHOP ORDER NO.

0 CPI-1907





BERKSHIRE GREY

Control Panels, Inc.

REV. NO.
0

CPI-1907

SHT 03 of 22

GENERIC 2-DOOR PANEL

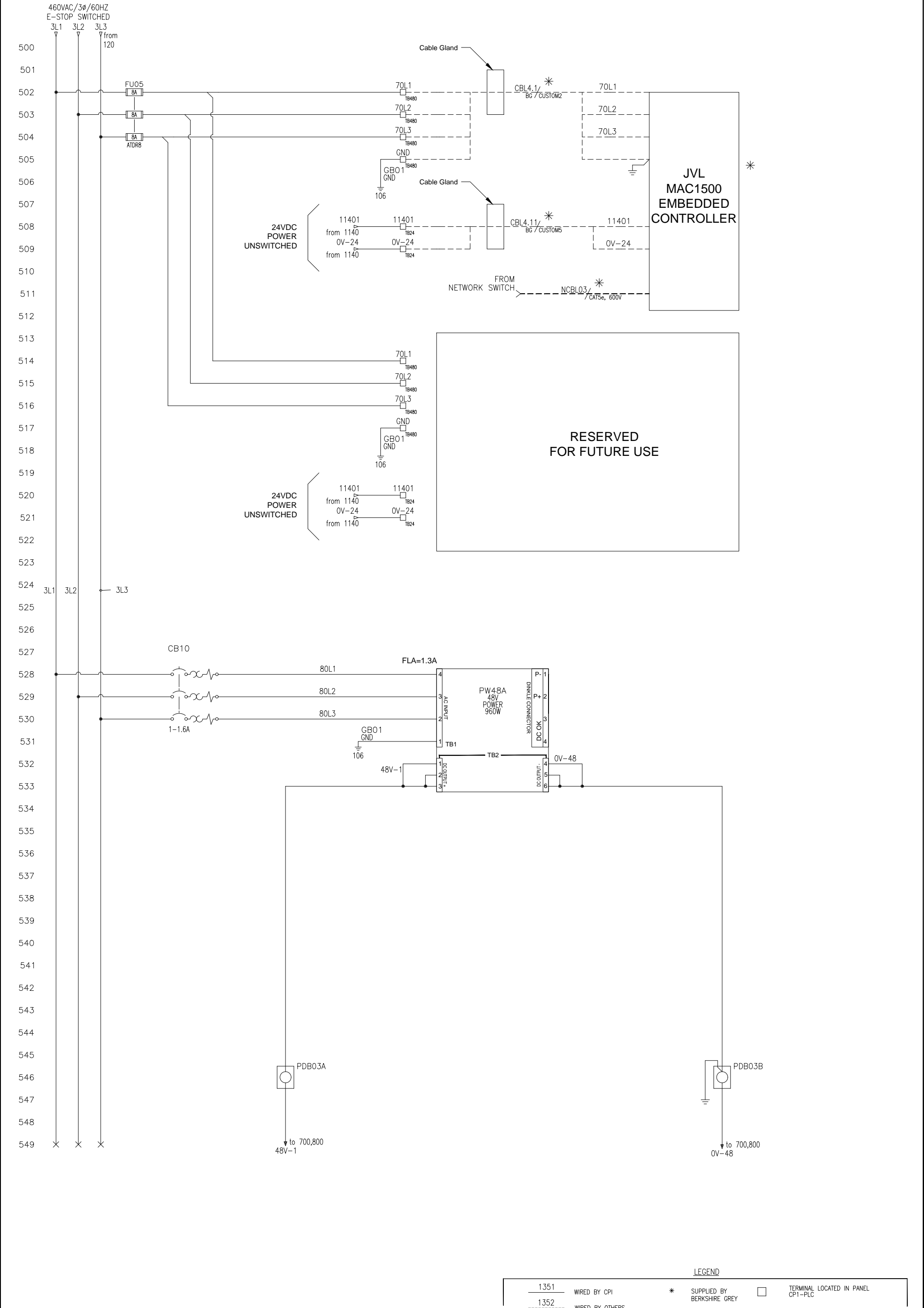
CUSTOMER.

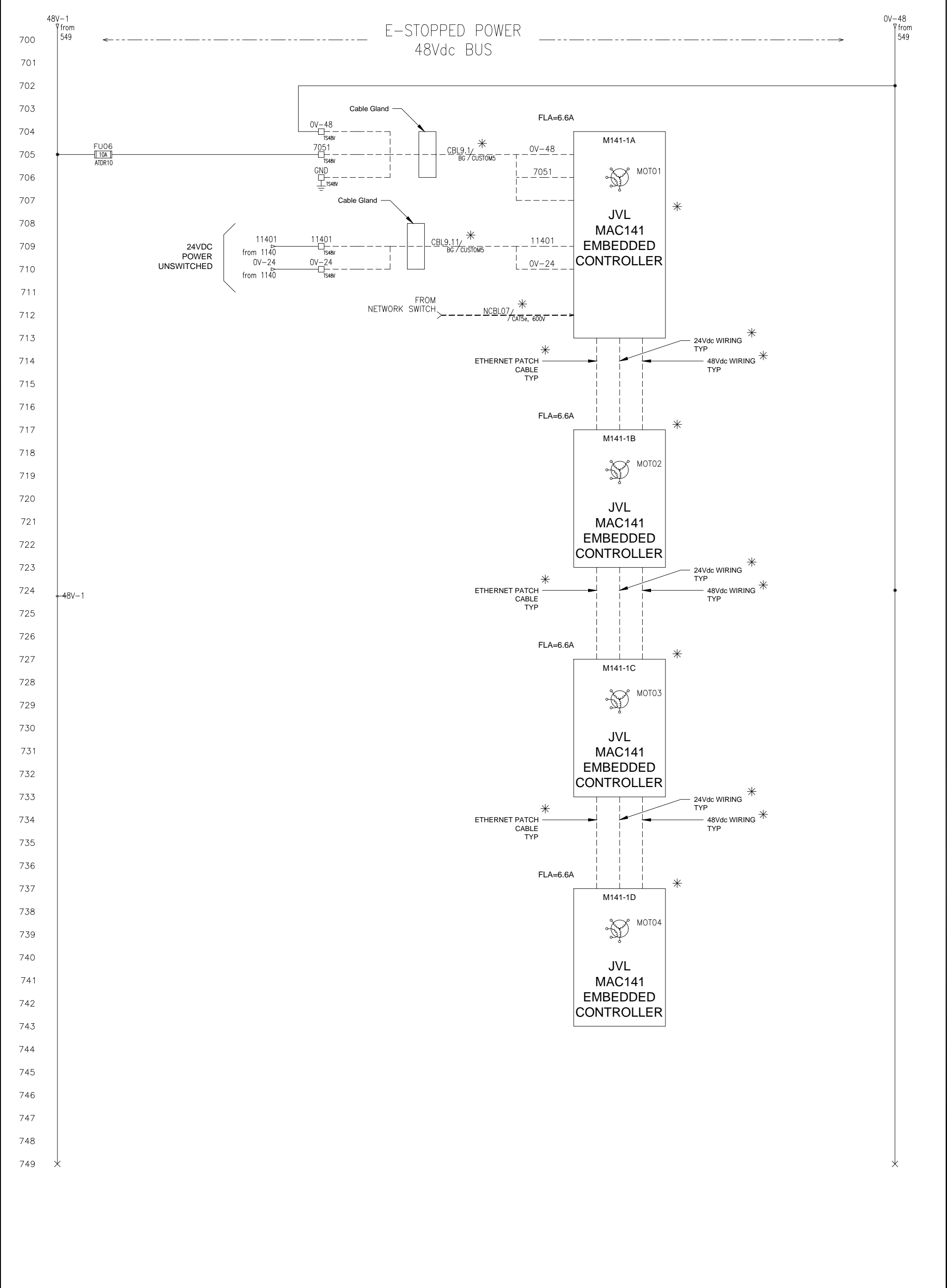
PROJECT NO.
SHOP ORDER NO.

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010

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REV. NO.	DATE	INITIALS	DESCRIPTION





LEGEND

1351	WIRED BY CPI	*	SUPPLIED BY BERKSHIRE GREY	<input type="checkbox"/>	TERMINAL LOCATED IN PANEL CPI-PLC
1352	WIRED BY OTHERS				



**BERKSHIRE
GREY**

Control Panels, Inc.

REV. NO.
0

CPI-1907

SHT 07 of 22

TITLE
GENERIC
2-DOOR PANEL

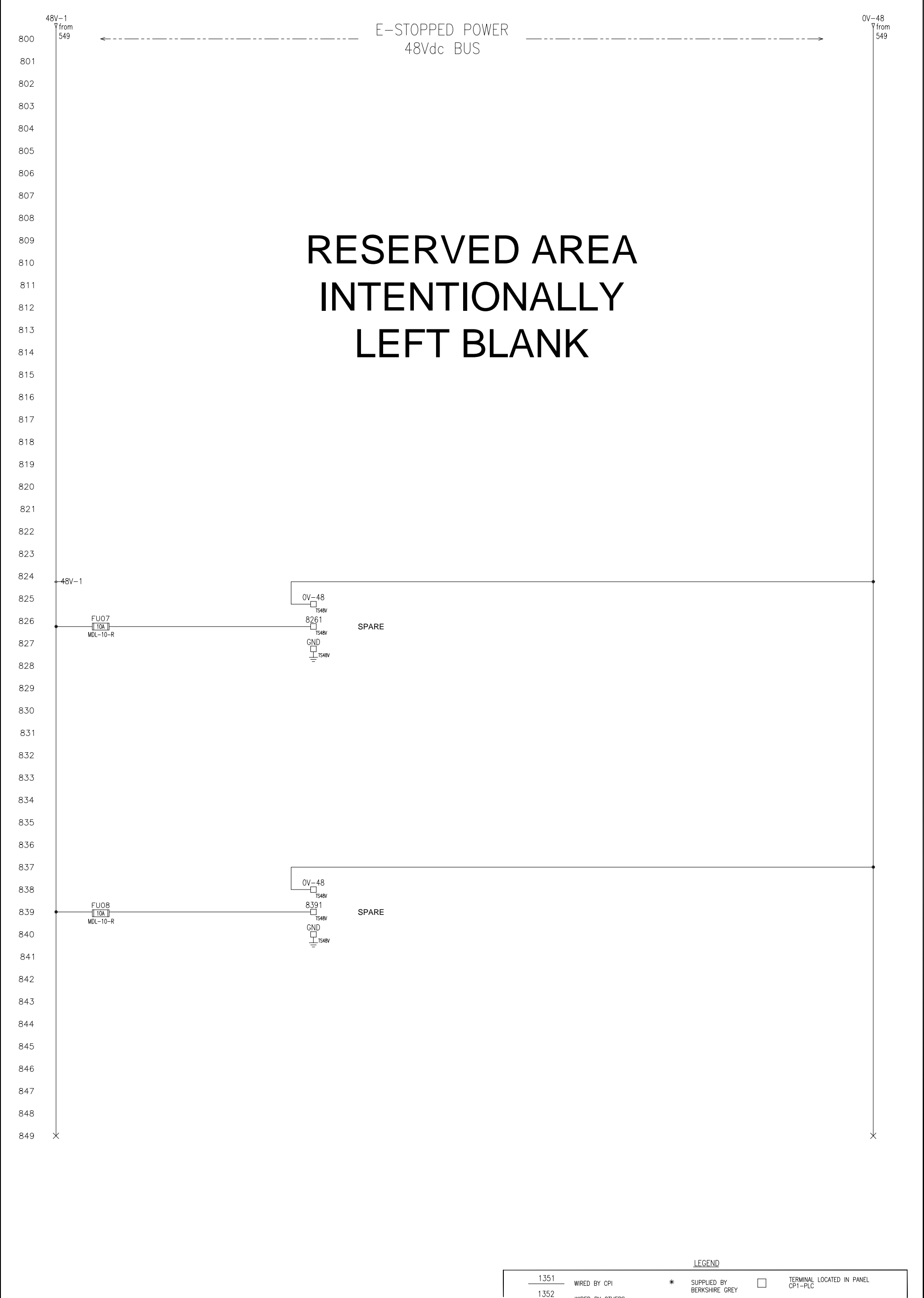
CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010


REV. NO.	DATE	INITIALS	DESCRIPTION

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LEGEND

<u>1351</u>	WIRED BY CPI	*	SUPPLIED BY BERKSHIRE GREY	<input type="checkbox"/>	TERMINAL LOCATED IN PANEL CP1-PLC
---1352---	WIRED BY OTHERS				



BERKSHIRE
GREY

Control Panels, Inc.

REV. NO.

0

CPI-1907

SHT 08 of 22

TITLE

GENERIC
2-DOOR PANEL

CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

SCALE

DRAWN DCREEL

CHK'D

DATE 03/27/2010

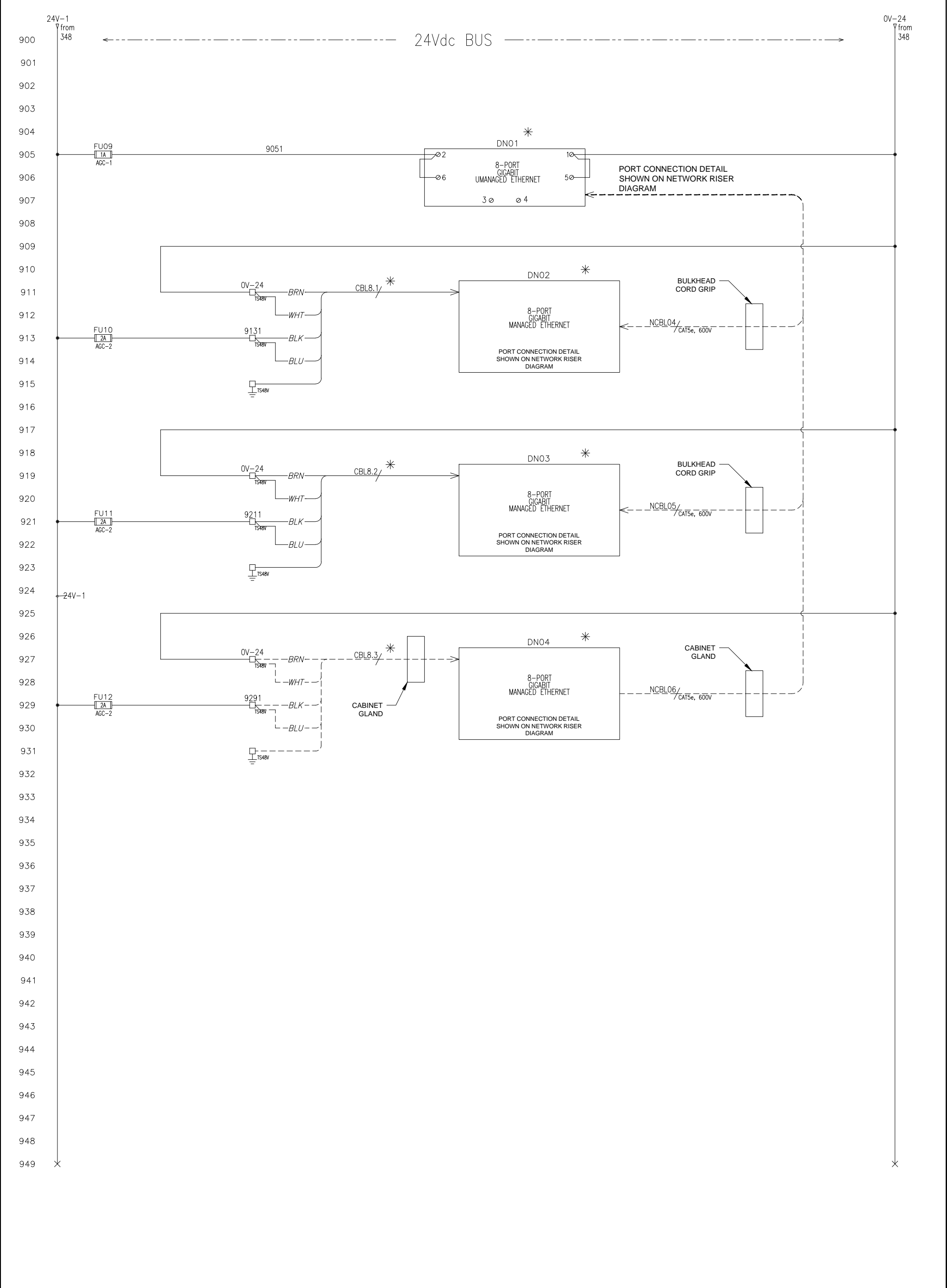
REV. NO.


DATE

INITIALS

DESCRIPTION

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BERKSHIRE
GREY

Control Panels, Inc.

REV. NO.

0

CPI-1907

SHT 09 of 22

TITLE

GENERIC
2-DOOR PANEL

CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

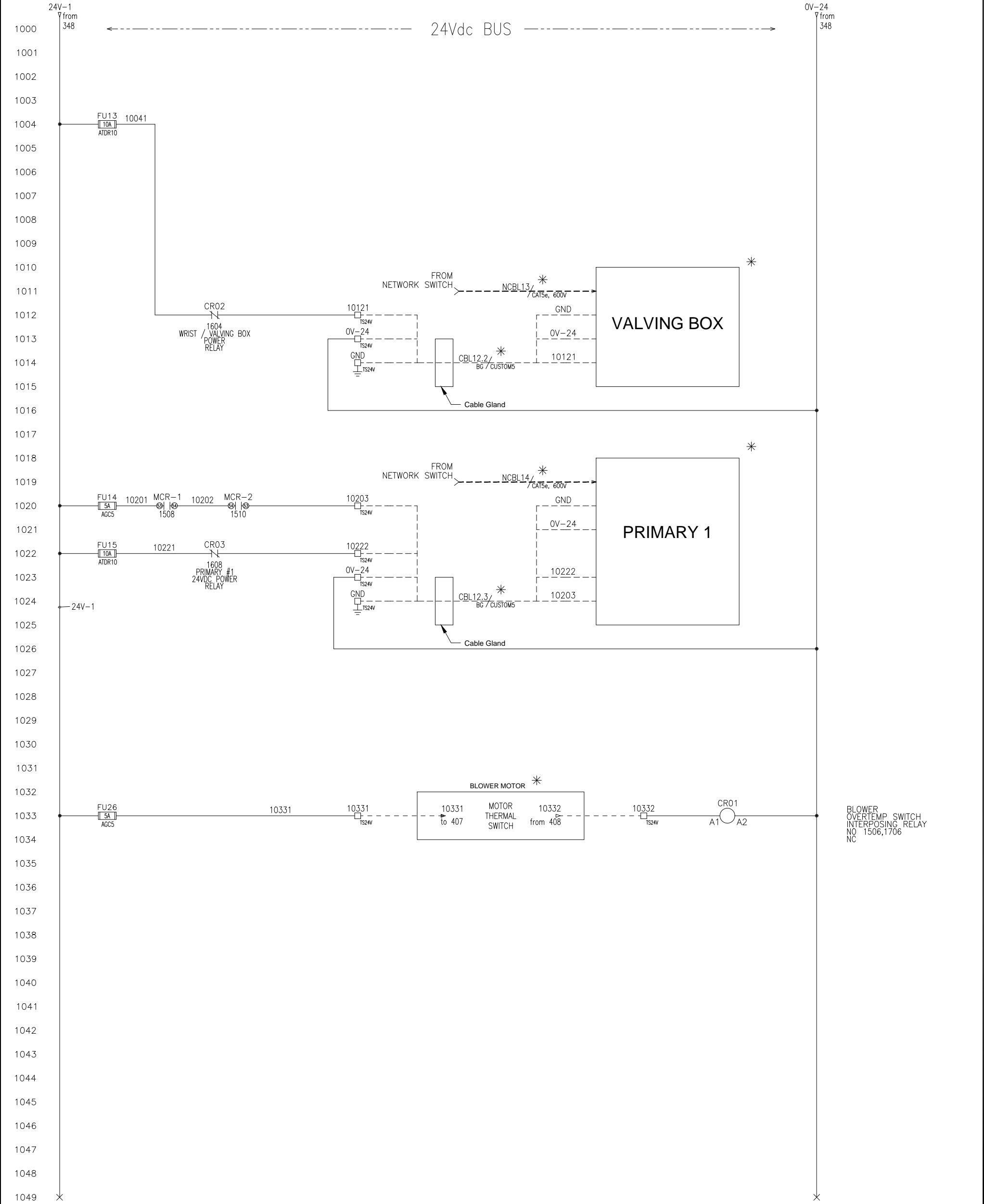
SCALE

DRAWN DCREEL

CHK'D


DATE 03/27/2010

REV. NO.	DATE	INITIALS	DESCRIPTION
			THIS DRAWING AND DESIGN PROVIDED BY PROFESSIONAL SERVICE. ALL INFORMATION INCORPORATED HEAREIN, REMAIN THE PROPERTY OF BERKSHIRE GREY, INC. AND REGARDED AS CONFIDENTIAL. IT SHALL NOT BE USED IN WHOLE OR IN PART, DISCLOSED TO OTHERS, OR COPIED WITHOUT SPECIFIC WRITTEN CONSENT OF BERKSHIRE GREY, INC.



LEGEND

1351	WIRED BY CPI	*	SUPPLIED BY BERKSHIRE GREY	□	TERMINAL LOCATED IN PANEL CPI-PLC
1352	WIRED BY OTHERS				



BERKSHIRE GREY

Control Panels, Inc.

REV. NO.

0

CPI-1907

SHT 10 of 22

TITLE

GENERIC 2-DOOR PANEL

CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

SCALE

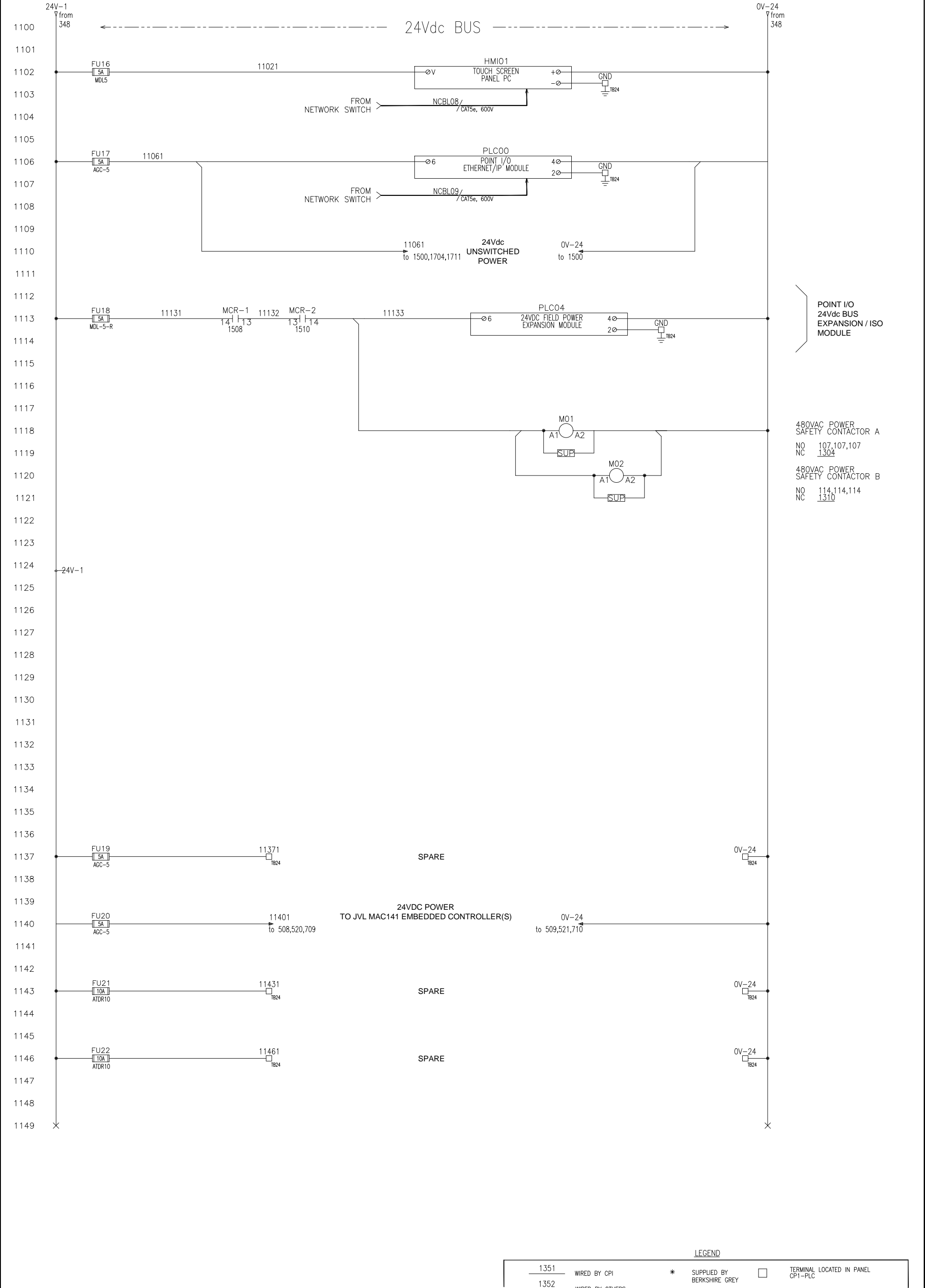
DRAWN DCREEL

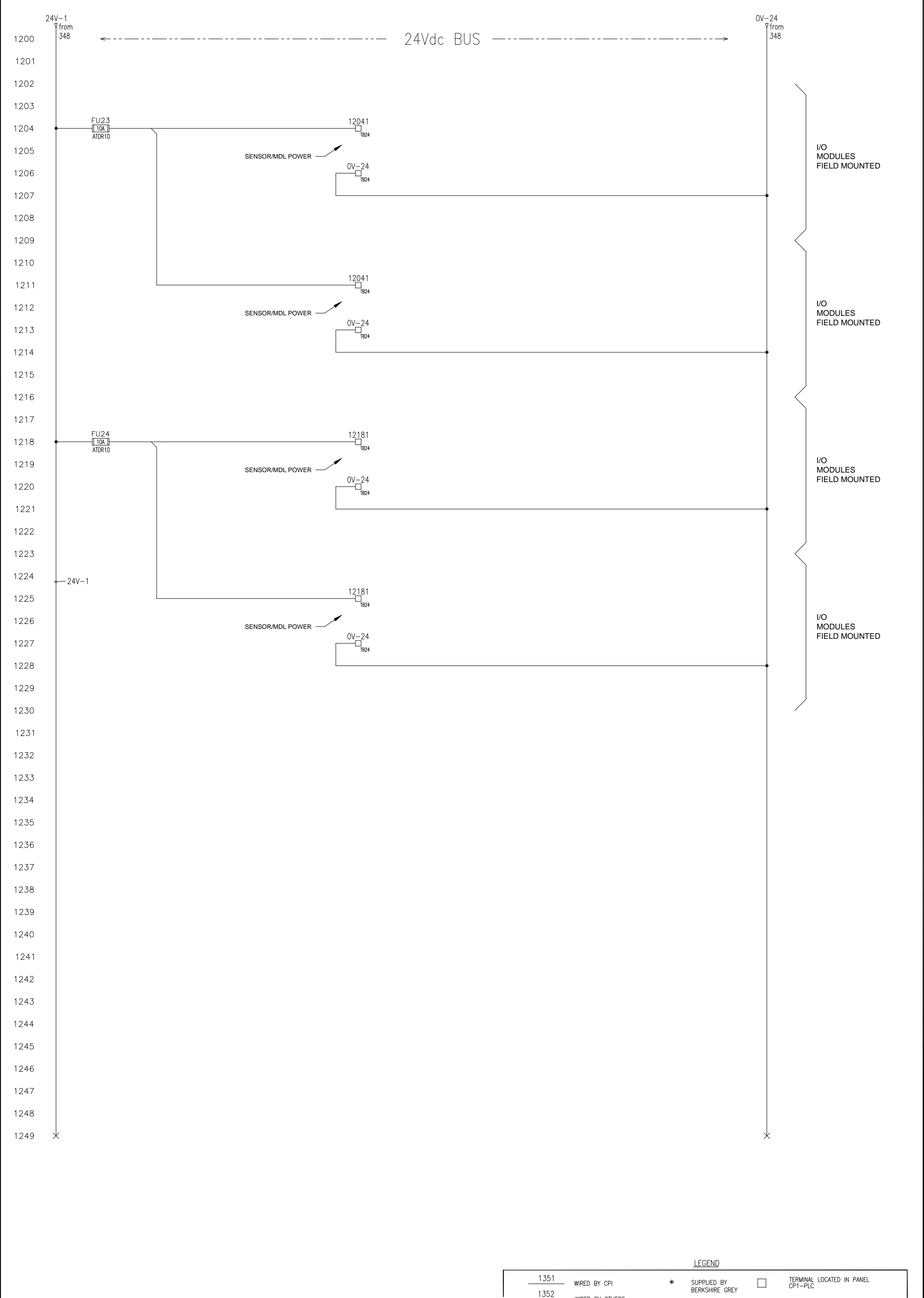
CHK'D

DATE 03/27/2010

REV. NO.	DATE	INITIALS	DESCRIPTION

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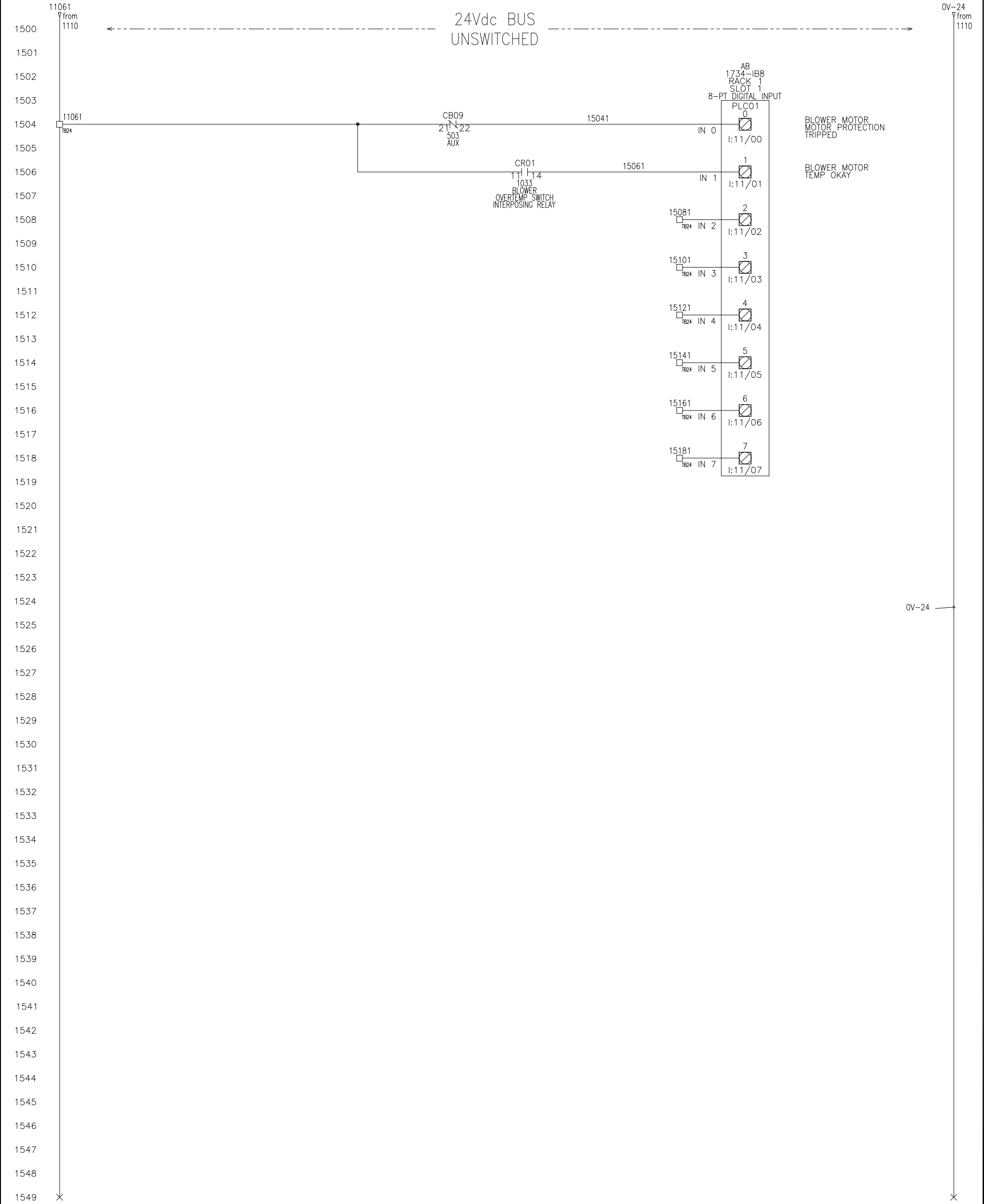
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RESERVED AREA
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<div><div><div>BG</div><div>BERKSHIRE GREY</div></div><div>Control Panels, Inc.</div></div>		TITLE GENERIC 2-DOOR PANEL		REV. NO.	DATE	INITIALS	DESCRIPTION
				0	CPI-1907		
CUSTOMER.		SCALE DRAWN DCREEL CHK'D DATE 03/27/2010		THIS DRAWING AND DESIGN PROVIDED BY PROFESSIONAL SERVICE. ALL INFORMATION INCORPORATED HEAREIN, REMAIN THE PROPERTY OF BERKSHIRE GREY, INC. AND REGARDED AS CONFIDENTIAL. IT SHALL NOT BE USED IN WHOLE OR IN PART, DISCLOSED TO OTHERS, OR COPIED WITHOUT SPECIFIC WRITTEN CONSENT OF BERKSHIRE GREY, INC.			
PROJECT NO. SHOP ORDER NO.				SHT 14 of 22			



REV. NO.

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PROJECT NO.

CPI-1907

REV. NO.

0

DATE

03/27/2010

DATE

03/27/2010

INITIALS

DESCRIPTION

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BERKSHIRE
GREY

Control Panels, Inc.

GENERIC
2-DOOR PANEL

CUSTOMER.

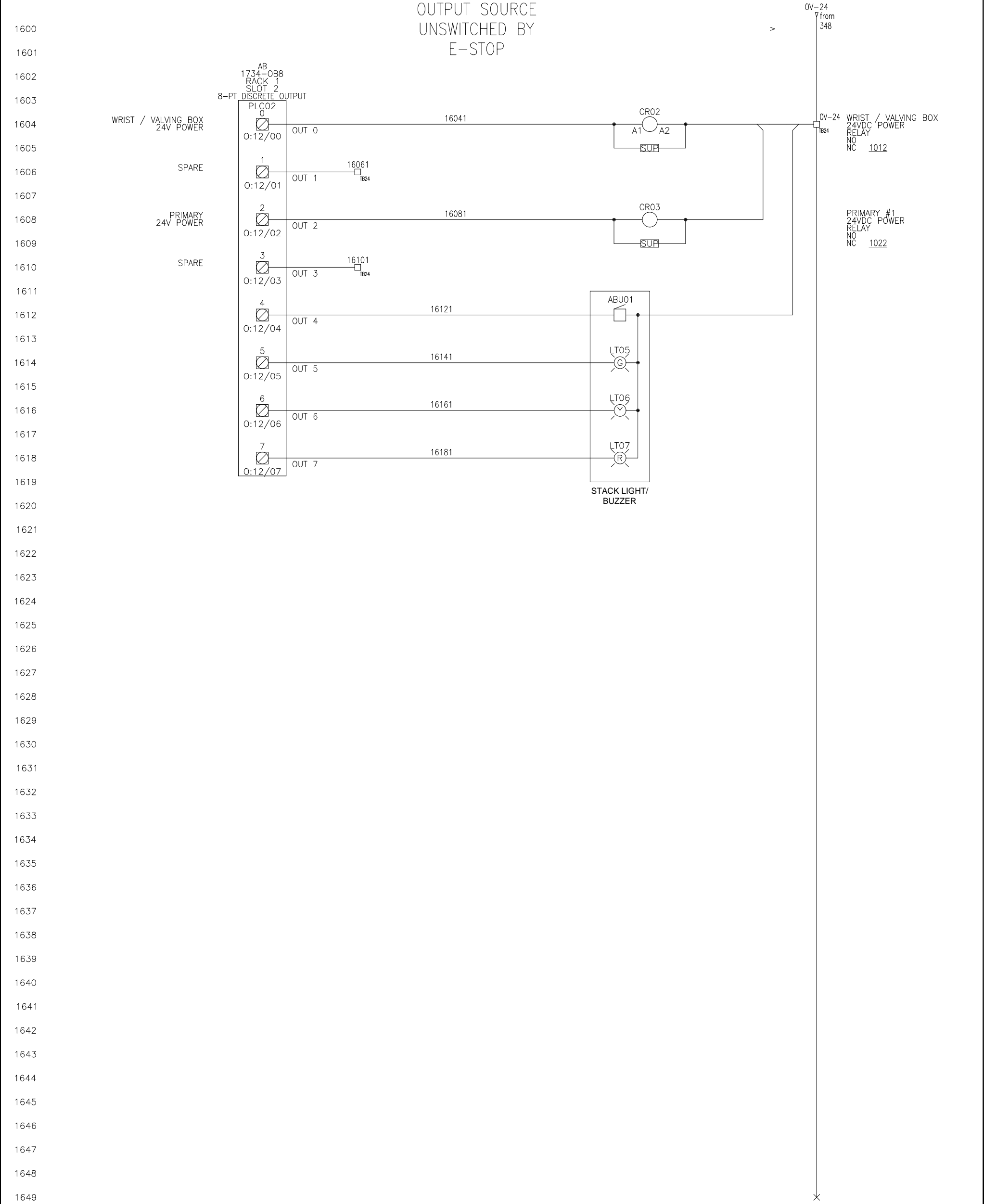
PROJECT NO.
SHOP ORDER NO.

SCALE

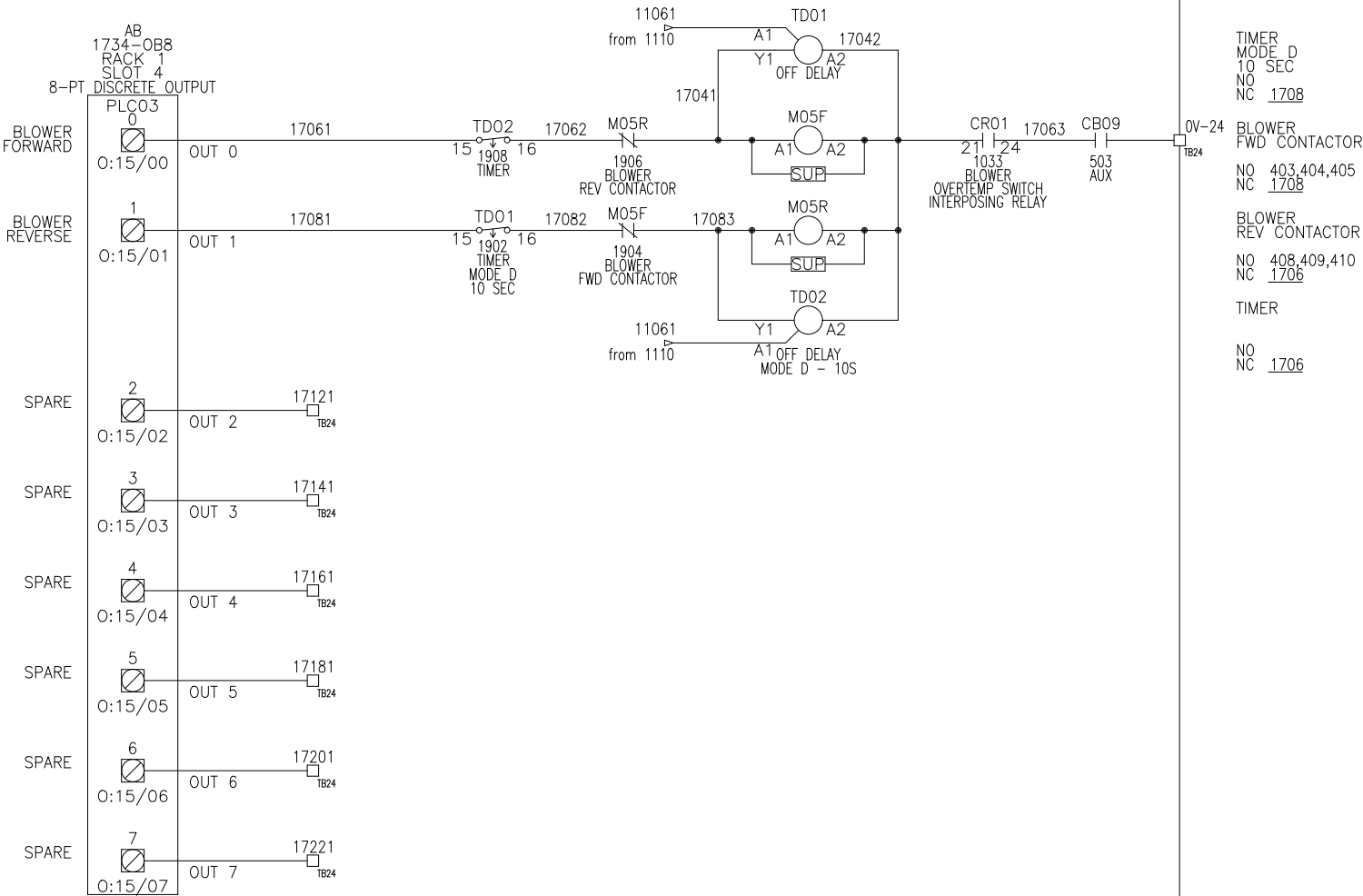
DRAWN DCREEL

CHK'D

DATE 03/27/2010



OUTPUT SOURCE
SWITCHED BY
E-STOP



ALL OUTPUTS FROM THIS MODULE ARE
E-STOP CONTROLLED
(LOW WHEN E-STOP ACTIVATED)

OUTPUTS SOURCED
FROM 24Vdc EXPANSION MODULE
SHOWN ON LINE 913



REV. NO. 0
CPI-1907
SHT 17 of 22

TITLE
GENERIC
2-DOOR PANEL

CUSTOMER.
PROJECT NO.
SHOP ORDER NO.

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010

REV. NO.	DATE	INITIALS	DESCRIPTION
			THIS DRAWING AND DESIGN PROVIDED BY PROFESSIONAL SERVICE. ALL INFORMATION INCORPORATED HEAREIN, REMAIN THE PROPERTY OF BERKSHIRE GREY, INC. AND REGARDED AS CONFIDENTIAL. IT SHALL NOT BE USED IN WHOLE OR IN PART, DISCLOSED TO OTHERS, OR COPIED WITHOUT SPECIFIC WRITTEN CONSENT OF BERKSHIRE GREY, INC.

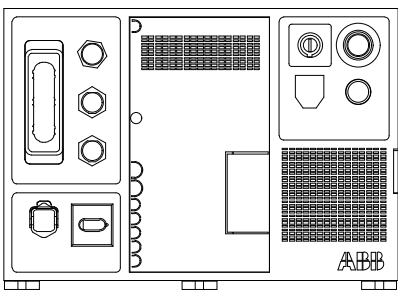
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RESERVED AREA
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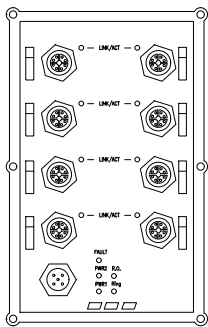
<div><div><div>BG</div><div>BERKSHIRE GREY</div></div><div>Control Panels, Inc.</div></div>		TITLE GENERIC 2-DOOR PANEL		REV. NO.		DATE		INITIALS		DESCRIPTION	
				0		CPI-1907		PROJECT NO. SHOP ORDER NO.		SCALE DRAWN DCREEL CHK'D DATE 03/27/2010	
REV. NO.		0		CPI-1907		SHT 18 of 22					

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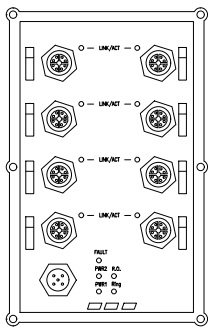
ABB IRC SINGLE CABINET
CONTROLLER



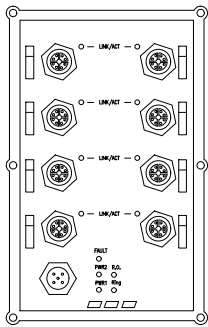
IP67
MANAGED ETHERNET SWITCH #1



IP67
MANAGED ETHERNET SWITCH #2



IP67
MANAGED ETHERNET SWITCH #3



INTERIOR CONNECTIONS

UNMANAGED
ETHERNET
SWITCH

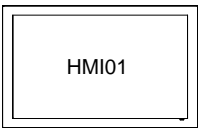


PLC00

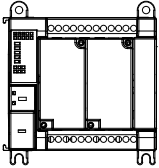


PORT 0

HMI01



SAFETY
CONTROLLER



0 CPI-1907

SHT 19 of 22

GENERIC
2-DOOR PANEL

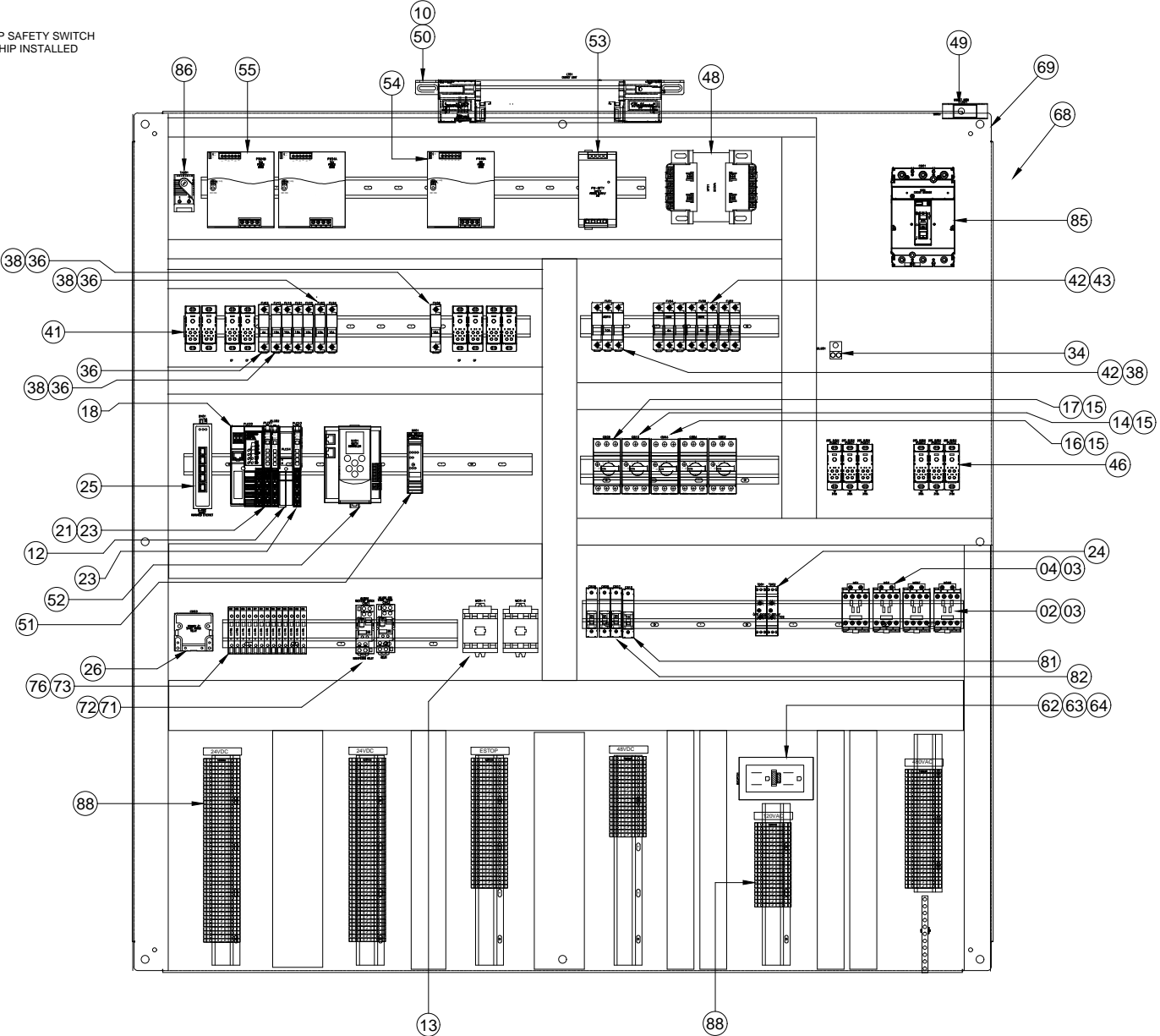
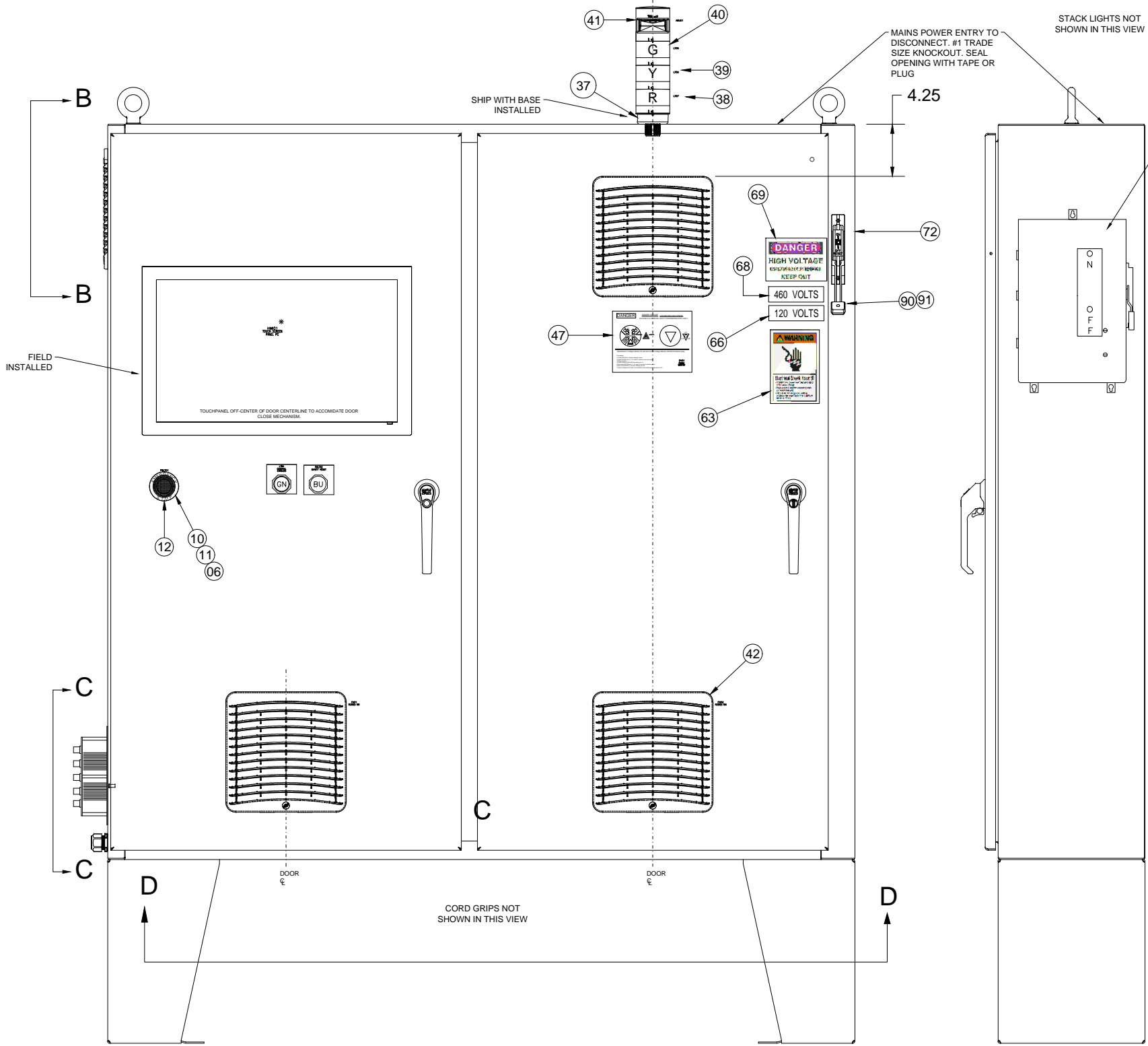
CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010

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REV. NO.	DATE	INITIALS	DESCRIPTION



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CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

TITLE

GENERIC
2-DOOR PANEL
PRELIMINARY CABINET/PANEL LAYOUT

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010

BG | **BERKSHIRE
GREY**
260 Bear Hill Road
Suite 301
Waltham, MA 02451

Control Panels, Inc.

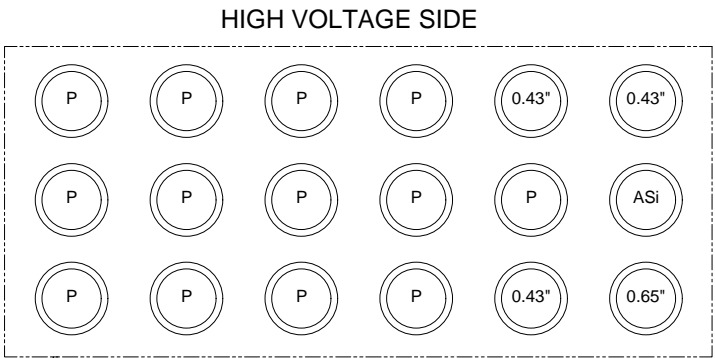
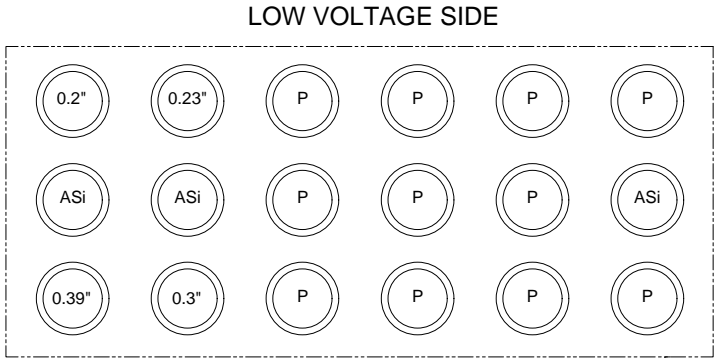
209 Mosley Drive
Lynn Haven, FL 32444

REV. NO.

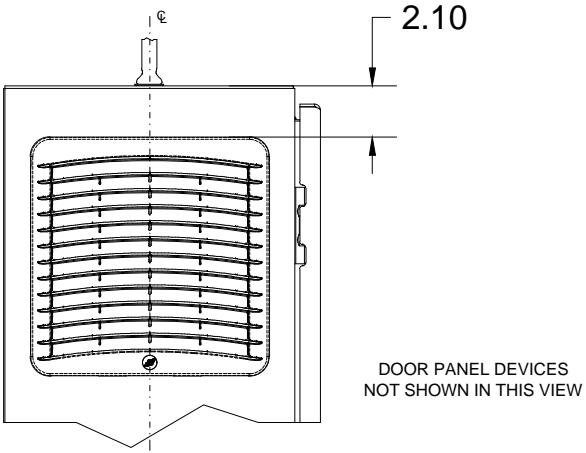
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CPI-1907

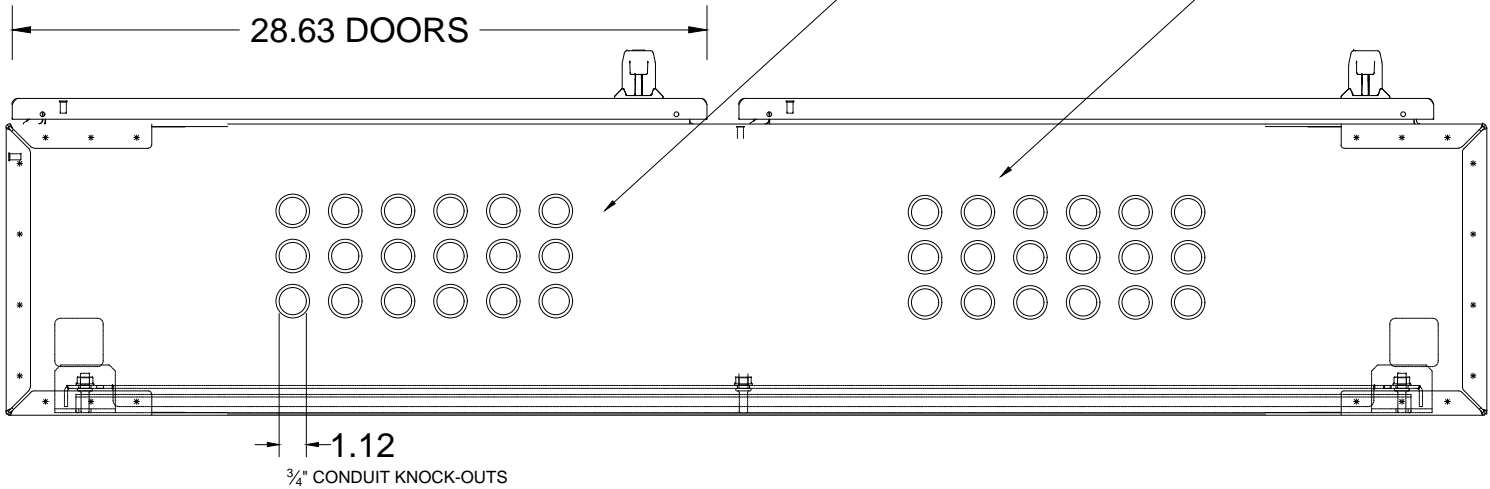
REV. NO.	DATE	INITIALS	DESCRIPTION



P = GLAND PLUG
ASi = SAFETY CIRCUIT CONDUCTOR

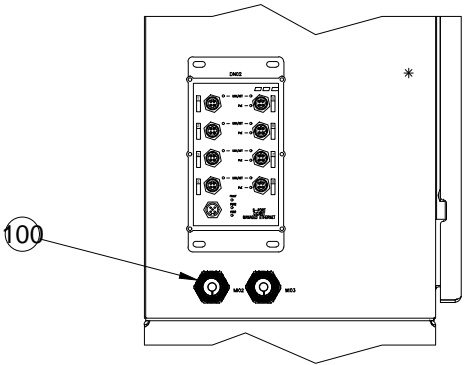


VIEW
B-B



VIEW
D-D

SAGINAW CONTROL &
ENGINEERING
SCE-60XEL6112LP



VIEW
C-C

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CUSTOMER.

PROJECT NO.
SHOP ORDER NO.

TITLE

GENERIC
2-DOOR PANEL

PRELIMINARY CABINET DETAIL

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010

REV. NO.

0

CPI-1907

BG
260 Bear Hill Road
Suite 301
Waltham, MA 02451

**BERKSHIRE
GREY**

Control Panels, Inc.

209 Mosley Drive
Lynn Haven, FL 32444

						REV. NO.	DATE	INITIALS	DESCRIPTION
ITEM	TAGS	QTY	CATALOG	MFG	DESC				
01	FU02	1	USCC2I		2 POLE FUSE BLOCK - CLASS CC				
02	M05F,M05R	2	100-C23EJ10	AB	100-C CONTACTOR, 3-POLE				
03	M05F,M05R	2	100-FSD250	AB	SURGE SUPPRESSOR				
04	M01,M02	2	100S-C30EJ32BC	AB	MCS 100S-C SAFETY CONTACTOR, 30A, 24V DC (W/ELEC. COIL), 3 NO/2 NC AUX CONTACTS, BIFURACATED CONTACT W/100-SA20				
03	M01,M02	2	100-FSD250	AB	SURGE SUPPRESSOR				
05	LT03,LT04,PBLT02	3	800H-W100AE	AB	Name Plate				
06	PBLT02	1	800T-A7	AB	PUSH BUTTON - MOMENTARY, NEMA 4/13				
07	PBLT02	2	800T-XD2	AB	CONTACT BLOCK, 1N.C.				
08	LT04	1	800H-PR16G	AB	GREEN PILOT LIGHT - STANDARD, ROUND OILTIGHT				
09	FU27	3	TRS30R	FS	FUSE, DUAL ELEMENT, CLASS RK5, 30A				
10	LT03	1	F6T5/CW	SYLVANIA	FLUORESCENT BULB, 14W, 120VAC				
11	PB01	1	800F-15YE112	AB	NAME PLATE, EMERGENCY STOP				
12	PLC04	1	1734-EP24DC	AB	1734 POINT I/O 24VDC EXPANSION POWER SUPPLY				
13	MCR-1,MCR-2	2	700S-P1020DA1	AB	RELAY - HEAVY DUTY SAFETY CONTROL RELAY, BULLETIN 700S-P				
14	CB02,CB10	2	140M-C2E-B16	AB	IEC MOTOR PROTECTION CIRCUIT BREAKER, STANDARD MAGNETIC TRIP, 140M (C-FRAME)				
15	CB02,CB10	2	140M-C-AFA11	AB	AUXILIARY CONTACT BLOCK, FRONT MOUNTED, 1 NO 1 NC				
16	CB03,CB04	2	140M-C2E-B25	AB	IEC MOTOR PROTECTION CIRCUIT BREAKER, STANDARD MAGNETIC TRIP, 140M (C-FRAME)				
15	CB03,CB04	2	140M-C-AFA11	AB	AUXILIARY CONTACT BLOCK, FRONT MOUNTED, 1 NO 1 NC				
17	CB09	1	140M-C2E-C16	AB	IEC MOTOR PROTECTION CIRCUIT BREAKER, STANDARD MAGNETIC TRIP, 140M (C-FRAME)				
15	CB09	1	140M-C-AFA11	AB	AUXILIARY CONTACT BLOCK, FRONT MOUNTED, 1 NO 1 NC				
18	PLC00	1	1734-AENT	AB	1734 ETHERNET/IP ADAPTER				
19		3	199-DR1	AB	ZINC/STEEL DIN RAIL EN 50022 (35mm x 7.5mm x 1m)				
20	PLC02,PLC03	2	1734-OB8	AB	1734 PROTECTED SOURCE OUTPUT DIGITAL DC MODULE				
21	PLC02,PLC03	2	1734-TB	AB	1734 POINT I/O WIRING BASE ASSEMBLY				
22	PLC01	1	1734-IB8	AB	1734 SINK INPUT MODULE				
21	PLC01	1	1734-TB	AB	1734 POINT I/O WIRING BASE ASSEMBLY				
23	PLC04-TB	1	1734-TBS	AB	1734 POINT I/O WIRING BASE ASSEMBLY				
23	PLC01-TB,PLC02-TB	2	1734-TBS	AB	1734 POINT I/O WIRING BASE ASSEMBLY				
21	PLC01-TB,PLC02-TB	2	1734-TB	AB	1734 POINT I/O WIRING BASE ASSEMBLY				
24	TD01,TD02	2	H3D-M	ANLY	MULTIFUNCTION TIMER				
25	DN01	1	LNx-500AG	ANRAIRA	UNMANAGED INDUSTRIAL ETHERNET SWITCH, 5-PORT				
26	CR03	1	AD-PR40-1C-24D	AUTOMATION DIRECT					
27		1	B-TL70-T	BANNER					
28	LT07	1	SG-TL70-R	BANNER					
29	LT06	1	SG-TL70-Y	BANNER					
30	LT05	1	SG-TL70-G	BANNER					
31	ABU01	1	SG-TL70-AL	BANNER					
32	FN01,FN02	2	GHV2501203	COSMOTEC	FILTERED FAN, 10", 218CFM				
33		2	GHF25	COSMOTEC	FILTERED VENT				
34	BLG01	3	CPI-02	CPI	GROUND LUG, DUAL				
35		1	CPI_CUSTM1	CPI	NAMEPLATE, CUSTOM				
36	FU21	1	USCC1I	FS	1 POLE FUSE BLOCK - CLASS CC				
39	FU21	1	ATQR10	FS	FERRAZ SHAWMUT TIME DELAY FUSE-10A				
36	FU06,FU13,FU15, FU22,FU23,FU24	6	USCC1I	FS	1 POLE FUSE BLOCK - CLASS CC				
38	FU01,FU06,FU13, FU15,FU22,FU23, FU24	9	ATDR10	FS	FERRAZ SHAWMUT TIME DELAY FUSE-10A				
36	FU03	1	USCC1I	FS	1 POLE FUSE BLOCK - CLASS CC				
41	PDB01,PDB02, PDB04,PDB05	4	FSPDB3A	FS	DIST. BLOCK, 1P, 310A				
42	FU01,FU04,FU05	2	USCC3I	FS	3 POLE FUSE BLOCK - CLASS CC				
43	FU04,FU05	2	ATDR8	FS	FERRAZ SHAWMUT TIME DELAY FUSE-8A				
46	PDB03A,PDB03B	4	FSPDB2A	FS	DIST. BLOCK, 1P, 175A				
47	DV01	1	P-S10S21-M3RX	GRACEPORT	VOLTAGE INDICATOR WITH TESTPOINTS				
48	XF01	1	PH500MQMJ-FK	HAMMOND	INDUSTRIAL CONTROL TRANSFORMER, HPS IMPERATOR SERIES, W/FUSE KIT				

ITEM	TAGS	QTY	CATALOG	MFG	DESC				
49	LS01	1	ALFSWD	HOFFMAN	DOOR SWITCH ASSEMBLY				
50	LT01,LT02	2	LF120V15	HOFFMAN	ENC. LIGHT KIT, 15", 120VAC				
10	LT01,LT02	2	F6T5/CW	SYLVANIA	FLUORESCENT BULB, 14W, 120VAC				
51	SR01	1	AC030S	IFM	SAFETY RELAY				
52	SC01	1	AC422S	IFM	SAFETY CONTROLLER				
53	PW-SFTY	1	AC1253	IFM	AS-INTERFACE POWER SUPPLY				
54	PW48A	1	TDR-960-48	MEAN WELL					
55	PW24A,PW24B	2	TDR-960-24	MEAN WELL					
56	LABEL-02	1	LB-2398-EU-4X6	MYSAFETYLABELS	ANSI WARNING LABEL: ELECTRICAL SHOCK HAZARD				
57	GB01	1	GBA2-10	NSI	ISOLATED GROUND BAR, 10 CIRCUIT				
58	LABEL-04	1	PCV-120BY	PANDUIT	LABEL, VOLTAGE, 120 VOLTS				
59		1	PCV-230BY	PANDUIT	LABEL, VOLTAGE, 230 VOLTS				
60		1	PCV-460BY	PANDUIT	LABEL, VOLTAGE, 460 VOLTS				
61	LABEL-01	1	PPS0305D75	PANDUIT	LABEL, HIGH VOLTAGE UNAUTHORIZED PERSONNEL KEEP OUT				
62	RECPT01	1	1595-W	PASS & SEYMOUR	OUTLET; GFCI DUPLEX RECPT. 120VAC/15A				
63	RECPT01	1	WSM150	APPLETON-EGS	OUTLET BOX, ONE-GANG, 1/2" HOLE				
64	RECPT01	1	SS26	P&S	OUTLET COVER				
65	PBLT01	1	VAA-2E1A-PM-S	PEPPERL+FUCHS	EMERGENCEY STOP PUSH BUTTON				
66	PBLT01	1	800T-XD1	AB	CONTACT BLOCK, 1N.O.				
07	PBLT01	2	800T-XD2	AB	CONTACT BLOCK, 1N.C.				
67	DN02	3	ISW-800T-M12	PLANET	UNMANAGED ETHERNET SWITCH, 8 PORT, IP67				
68		1	SCE-60AFSD	SCE					
69		1	SCE-60P60GALV	SCE	PANEL, 56H X 56W, GALVANIZED				
70		1	SCE-60XEL6112LP	SCE	XEL IP ENCLOSURES FOR MOST STANDARD TYPE DISCONNECTS				
71	CR01,CR02	1	RPM22BD	SCHNEIDER ELECTRIC	PLUG-IN POWER RELAY, TYPE RPM, WITH LED				
72	CR01,CR02	1	RPZF2	SQD	RELAY - SOCKET				
73	FU17,FU19,FU20	3	NSYTRV42SF6LD	SQD	1 POLE FUSE BLOCK DC				
75	FU17,FU19,FU20	3	GGC-5	FERRAZ SHAWMUT	GGC - 1/4-INCH X 1-1/4-INCH FAST-ACTING GLASS TUBE FUSE				
73	FU16,FU25	2	NSYTRV42SF6LD	SQD	1 POLE FUSE BLOCK DC				
74	FU16,FU25	2	MDL-5-R	BUSSMANN	TIME DELAY, 1/4 X 1-1/4 INCH, GLASS TUBE FUSE				
73	FU14	1	NSYTRV42SF6LD	SQD	1 POLE FUSE BLOCK DC				
77	FU14	1	AGC-5	BUSSMANN	AGC - 1/4-INCH X 1-1/4-INCH FAST-ACTING GLASS TUBE FUSE				
73	FU10,FU11,FU12	3	NSYTRV42SF6LD	SQD	1 POLE FUSE BLOCK DC				
78	FU10,FU11,FU12	3	AGC-2	BUSSMANN	AGC - 1/4-INCH X 1-1/4-INCH FAST-ACTING GLASS TUBE FUSE				
73	FU09	1	NSYTRV42SF6LD	SQD	1 POLE FUSE BLOCK DC				
79	FU09	1	AGC-1	BUSSMANN	AGC - 1/4-INCH X 1-1/4-INCH FAST-ACTING GLASS TUBE FUSE				
73	FU07,FU08,FU18	3	NSYTRV42SF6LD	SQD	1 POLE FUSE BLOCK DC				
76	FU07,FU08,FU18	3	MDL-10-R	BUSSMANN	TIME DELAY, 1/4 X 1-1/4 INCH, GLASS TUBE FUSE				
80									
72									
81	CB12	1	60101	SQD	CIRCUIT BREAKER - 1 A				
82	CB05,CB06,CB07, CB08	4	60103	SQD	CIRCUIT BREAKER - 2 A				
83	DS01	1	9422-A1	SQD	HANDLE MECHANISM				
84	DS01	1	9422-RQ1	SQD	OPERATING MECH., FLANGE TYPE, HDL36XXX				
85	CB01	1	HDL36030	SQD	CIRCUIT BREAKER - H FRAME - 30 A				
86	TAS01	1	011419-00	STEGO	THERMOSTAT, 32-141F, NO CLOSE ON RISE				
87	HMI01	1	SL-PPC-21.5E-i3-4010U-UL	SUPERLOGICS	TOUCHSCREEN PC, DC POWERED				
88	480VAC	289	1020100000	WEIDMULLER	STANDARD DESIGN TERMINAL BLOCK - WDU 4				
09	PJ01	1	L16-30P or EQUAL	HUBBELL	TWIST-LOCK PLUG, 30A				

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CUSTOMER.


PROJECT NO.
SHOP ORDER NO.

TITLE

GENERIC
1-DOOR PANEL

PRELIMINARY BILL OF MATERIALS

SCALE
DRAWN DCREEL
CHK'D
DATE 03/27/2010



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REV. NO.
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