

PENDANT *AUTOMATION*

CONTROL DRAWINGS FOR:
































STERICYCLE
BALTIMORE, MD

REV.	DATE:	DRAWN BY:	DESCRIPTION:	REV.	DATE:	DRAWN BY:	DESCRIPTION:
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
A1	02-12-18	MJC	AS COMMISSIONED	-	-	-	-
A	01-29-18	MJC	AS BUILT	-	-	-	-
0	01-08-18	MJC	INITIAL RELEASE	-	-	-	-

ABBREVIATIONS

AH	AUDIBLE/ALARM HORN	OL	OVERLOAD
AR	ALTERNATION RELAY	PB	PUSHBUTTON
BB	BUS BAR	PCS	PULL CORD SWITCH
BR	BRAKING RESISTOR	PDB	POWER DISTRIBUTION BLOCK
C	CONTACTOR	PE	PHOTO EYE
CB	CIRCUIT BREAKER	PLC	PROGRAMMABLE LOGIC CONTROLLER
CCT	CONTROL CIRCUIT TRANSFORMER	PRS	PROXIMITY SWITCH
CF	COOLING FAN	PS	PRESSURE SWITCH
CR	CONTROL RELAY	PSU	POWER SUPPLY
CS	CURRENT SWITCH	PT	PRESSURE TRANSMITTER
CT	CURRENT TRANSFORMER	RECEPT	RECEPTACLE
DD	DIGITAL DISPLAY	RTD	RESISTIVE TEMPERATURE DEVICE
DS	DISCONNECT SWITCH	RVS	SOFT STARTER
ES	ETHERNET SWITCH	SCR	SILICON CONTROL RECTIFIER
ESR	EMERGENCY STOP SENSITIVITY RELAY	SD	SERVO DRIVE
FLT	LEVEL SWITCH	SOL	SOLENOID
FS	FLOW SWITCH	SS	SELECTOR SWITCH
FU	FUSE	TAS	TEMPERATURE SWITCH
GL	GROUND LUG	TB	TERMINAL BLOCK
IFM	INTERFACE MODULE	TC	THERMOCOUPLE
ISB	INTRINSICALLY SAFE BARRIER	TD	TIME DELAY RELAY
LCT	LOAD CELL TRANSMITTER	TG	TOGGLE SWITCH
LF	LINE FILTER	TSP	TWISTED SHIELDED PAIR
LR	LINE REACTOR	TVSS	SURGE SUPPRESSOR
LS	LEVEL SWITCH	UPS	UNINTERRUPTIBLE POWER SUPPLY
LT	PILOT LIGHT	US	ULTRA SONIC SENSOR
LTR	LEVEL TRANSMITTER	VFD	VARIABLE FREQUENCY DRIVE
MC	MOTOR CONTROLLER	VPN	VIRTUAL PRIVATE NETWORK
MCC	MOTOR CONTROL CENTER	XFR	TRANSFORMER
MMP	MANUAL MOTOR PROTECTOR	ZL	ZIP LINK MODULE
MS	MOTOR STARTER	ZS	LIMIT SWITCH

SYMBOLS

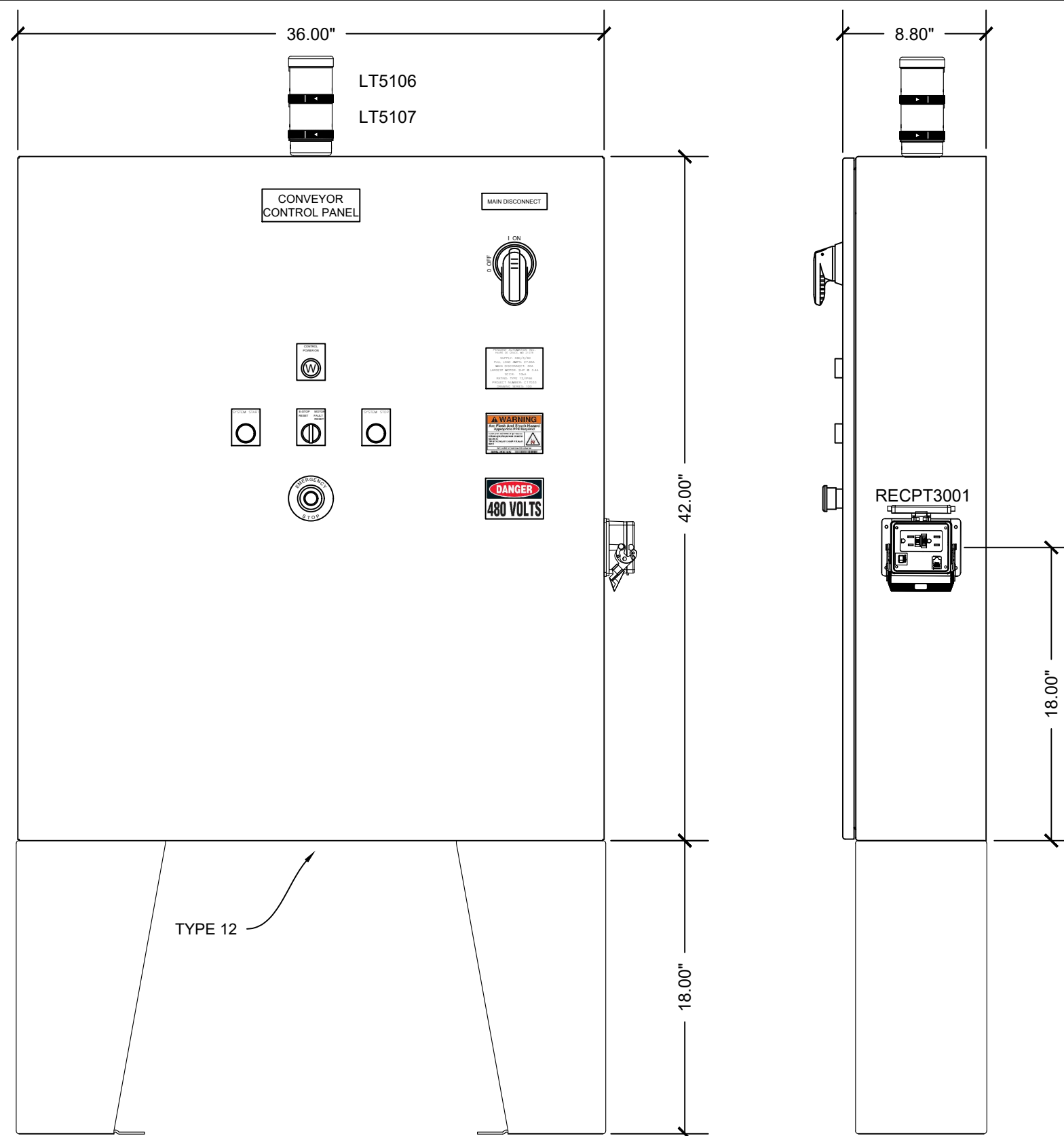
	PUSHBUTTON		LIMIT SWITCH
	MUSHROOMHEAD PUSHBUTTON		PRESSURE SWITCH
	SELECTOR SWITCH		TEMPERATURE SWITCH
	FUSE		FLOW SWITCH
	TRANSFORMER (IRON CORE TYPE)		LEVEL SWITCH
	CIRCUIT BREAKER		PROXIMITY SWITCH
	DISCONNECT SWITCH		TOGGLE SWITCH
	RELAY COIL		SOLENOID VALVE
	MOTOR STARTER COIL		AUDIBLE HORN
	NORMALLY OPEN CONTACTS		CONDUCTIVITY PROBE
	NORMALLY CLOSED CONTACTS		RESISTANCE HEATER
	TIME DELAY CONTACTS		MOTOR
	PILOT LIGHT		THERMAL OVERLOADS
	TERMINAL BLOCK LOCAL		FACTORY WIRING
	TERMINAL BLOCK REMOTE LOCATION		FIELD WIRING
	TERMINAL BLOCK COMPONENT		

DRAWN BY: MJC	DATE: 01.08.18	PENDANT <i>AUTOMATION</i> <small>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</small>	DATE: —
CHECKED BY: RJW	DATE: 01.10.18		DATE: —
APPROVED BY:	DATE:		PROJECT NAME: STERICYCLE
TITLE: CONVEYOR CONTROL PANEL SYMBOLS AND ABBREVIATIONS		DRAWING NO. C 17033-100	REV. A1
			DATE: [A1] 02.12.18 MJC
			DATE: [A] 01.29.18 MJC

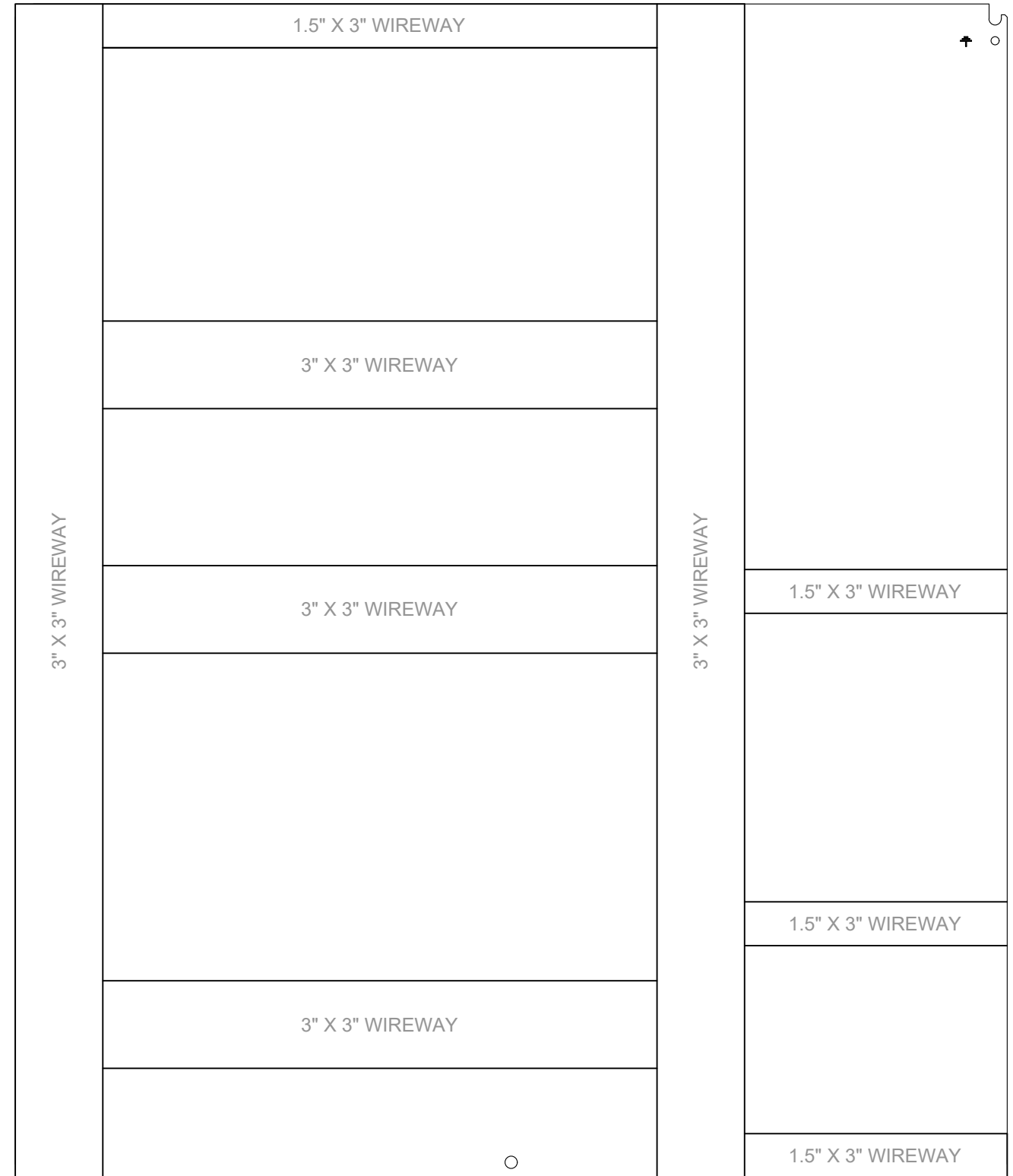
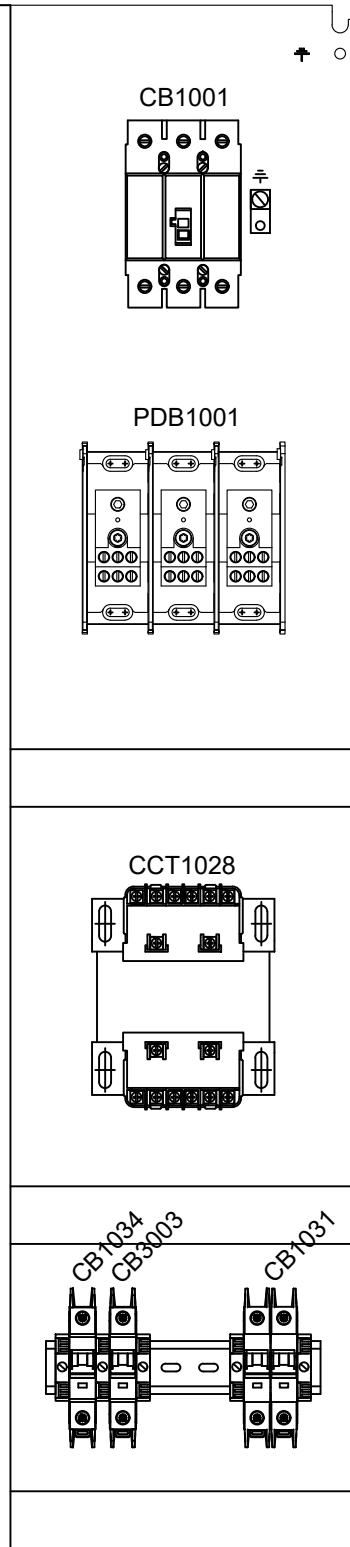
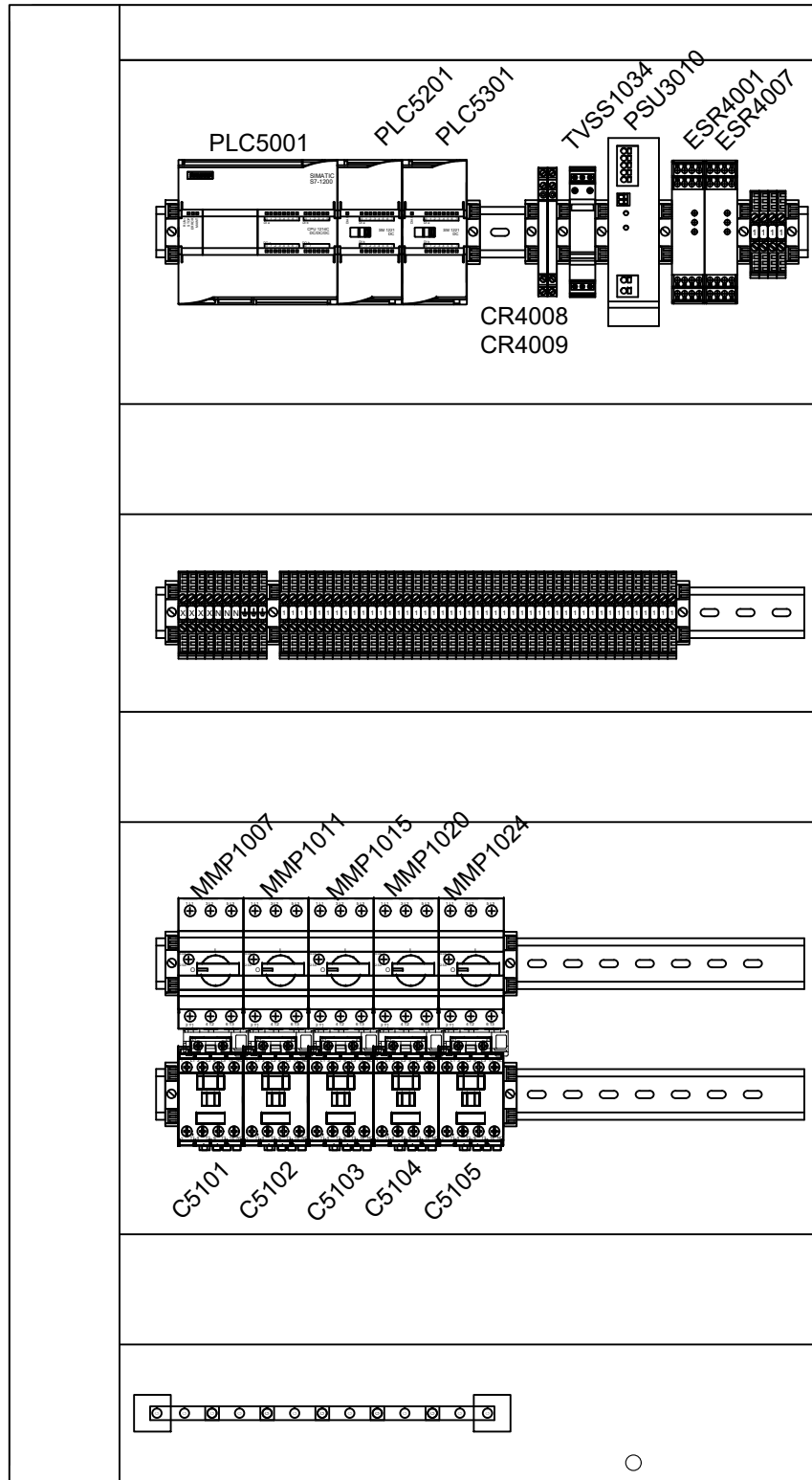
GENERAL NOTES:

- 1) ALL WIRING SUPPLIED BY PANEL MANUFACTURER TO BE TYPE MTW.
- 2) ALL WIRING INSTALLED BY FIELD ELECTRICIANS TO BE TYPE THHN; UNLESS OTHERWISE NOTED.
- 3) FIELD INSTALLATION TO COMPLY WITH NFPA 70 (NATIONAL ELECTRICAL CODE) AND LOCAL AHJ.
- 4) ALL COMMUNICATIONS CABLES, ETHERNET & SERIAL, SHALL ENTER/EXIT THE ENCLOSURE IN CONDUIT OR BY USING A LISTED PASS-THROUGH MEANS SUPPLIED BY INSTALLER.
- 5) ENCLOSURE TO BE RATED NEMA 12. ELECTRICAL PENETRATIONS SHALL BE RATED NEMA 12 MINIMUM, OR HAVE A LISTING THAT SUPERCEDES NEMA 12.
- 6) CONTROL CIRCUITS, ESPECIALLY ANALOG SIGNALS, SHALL BE RUN IN SEPARATE CONDUITS.
- 7) CAT5e CABLES SHALL BE SHIELDED WHERE POSSIBLE.
- 8) ALL COMMUNICATION CABLES, ETHERNET AND SERIAL, SHALL BE INSTALLED IN CONDUITS SEPARATE FROM NON-COMMUNICATION TYPE WIRING.
- 9) ALL FIELD WIRING TO MATCH WIRING NUMBERING FOUND IN PANEL AT POINT OF FIELD WIRE ORIGINATION.
- 10) ALL FIELD MOTORS, DEVICES, AND OTHER ELECTRICAL APPARATUSES ASSOCIATED WITH THIS PANEL SHALL HAVE NAMEPLATE TAGS MOUNTED/ATTACHED TO THE DEVICE IN THE FIELD.
- 11) PANEL WIRING AS FOLLOWS:
 - 480 VOLT FEEDERS : BROWN, ORANGE, YELLOW
 - 120VAC : BLACK
 - NEUTRAL : WHITE
 - 120V CONTROL : RED
 - 24V DC CONTROL : BLUE
 - DC+ : BLUE
 - DC- : BLUE W/WHITE STRIPE
 - EXTERNAL SOURCE : ORANGE & ORANGE W/ WHITE STRIPE
- 12) FIELD WIRING AS FOLLOWS:
 - FEEDERS : BROWN, ORANGE, YELLOW
 - 120VAC : BLACK
 - NEUTRAL : WHITE
 - 120V CONTROL : RED
 - 24V DC CONTROL : BLUE
 - DC+ : PURPLE
 - DC- : GREY
 - EXTERNAL SOURCE : ORANGE & ORANGE W/ WHITE STRIPE
- 13) ALL ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.

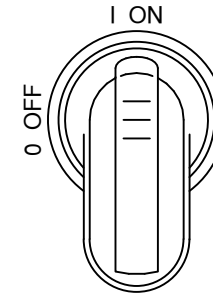
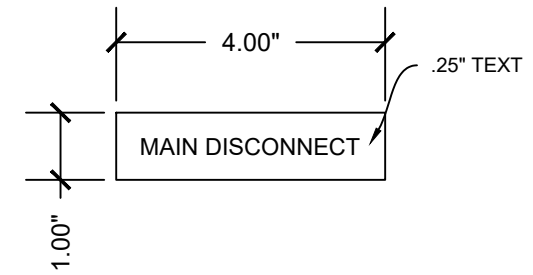
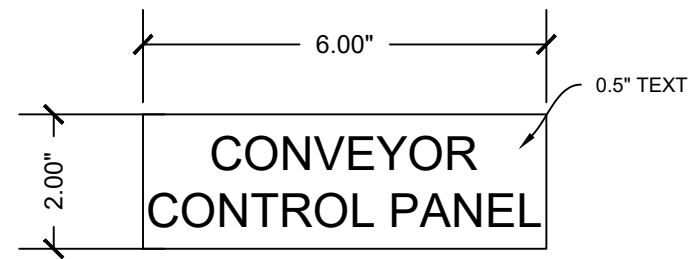
DRAWN BY: MJC	DATE: 01.08.18	PENDANT <i>AUTOMATION</i> <small>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</small>	DATE: —
CHECKED BY: RJW	DATE: 01.10.18		DATE: —
APPROVED BY:	DATE:		PROJECT NAME: STERICYCLE
TITLE: CONVEYOR CONTROL PANEL NOTES		DRAWING NO. C 17033-101	REV. A1
			DATE: [A1] 02.12.18 MJC
			DATE: [A] 01.29.18 MJC



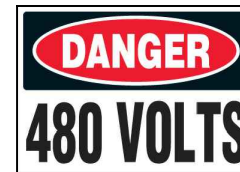
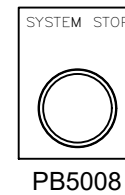
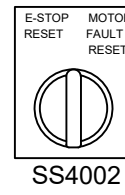
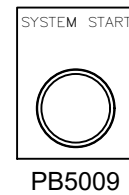
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CHECKED BY: RJW	DATE: 01.10.18			DATE: —
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033	DATE: —
TITLE: CONVEYOR CONTROL PANEL ENCLOSURE DETAIL		DRAWING NO. C 17033-102	REV. A1	DATE: [A1] 02.12.18 MJC
				DATE: [A] 01.29.18 MJC



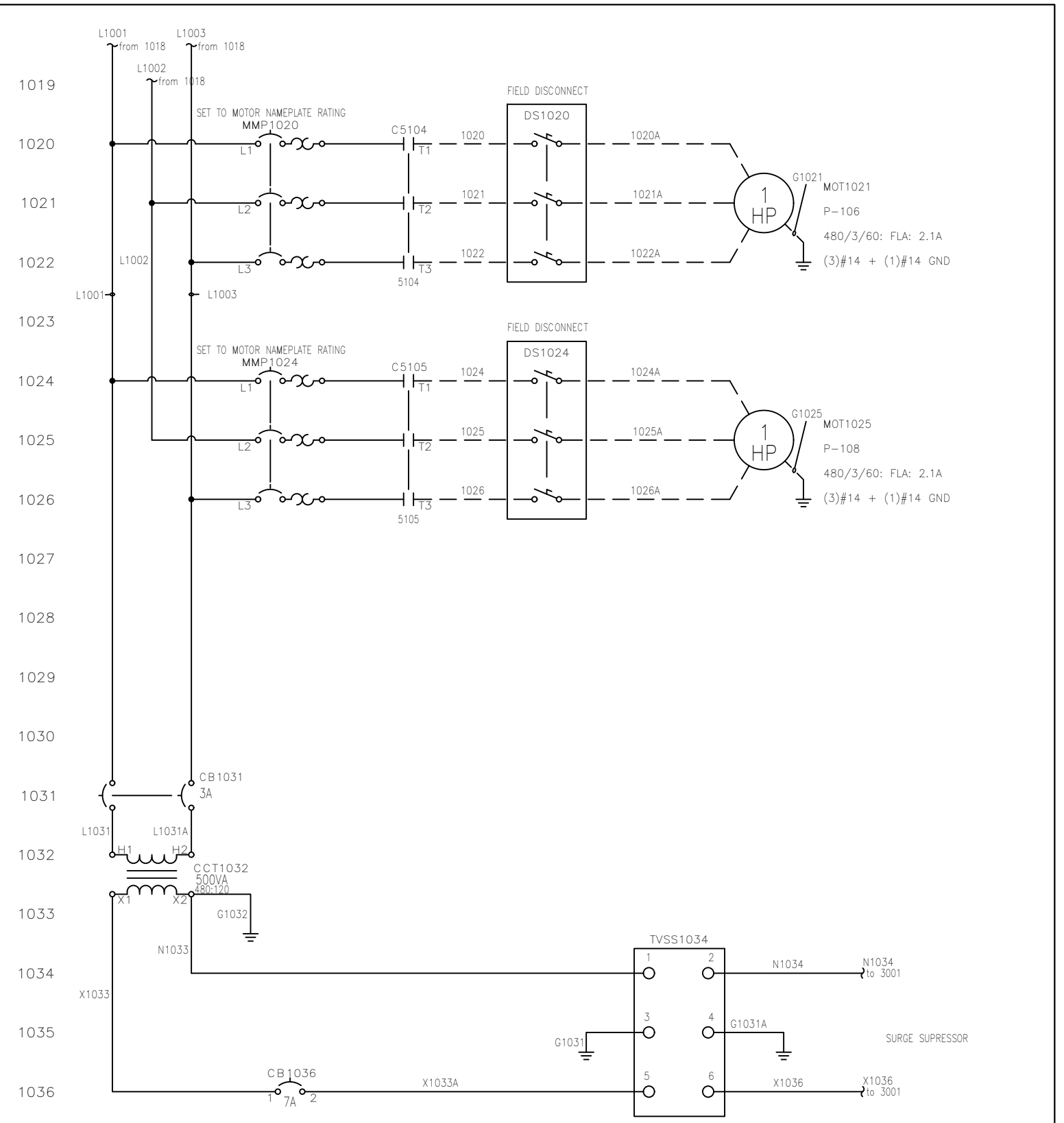
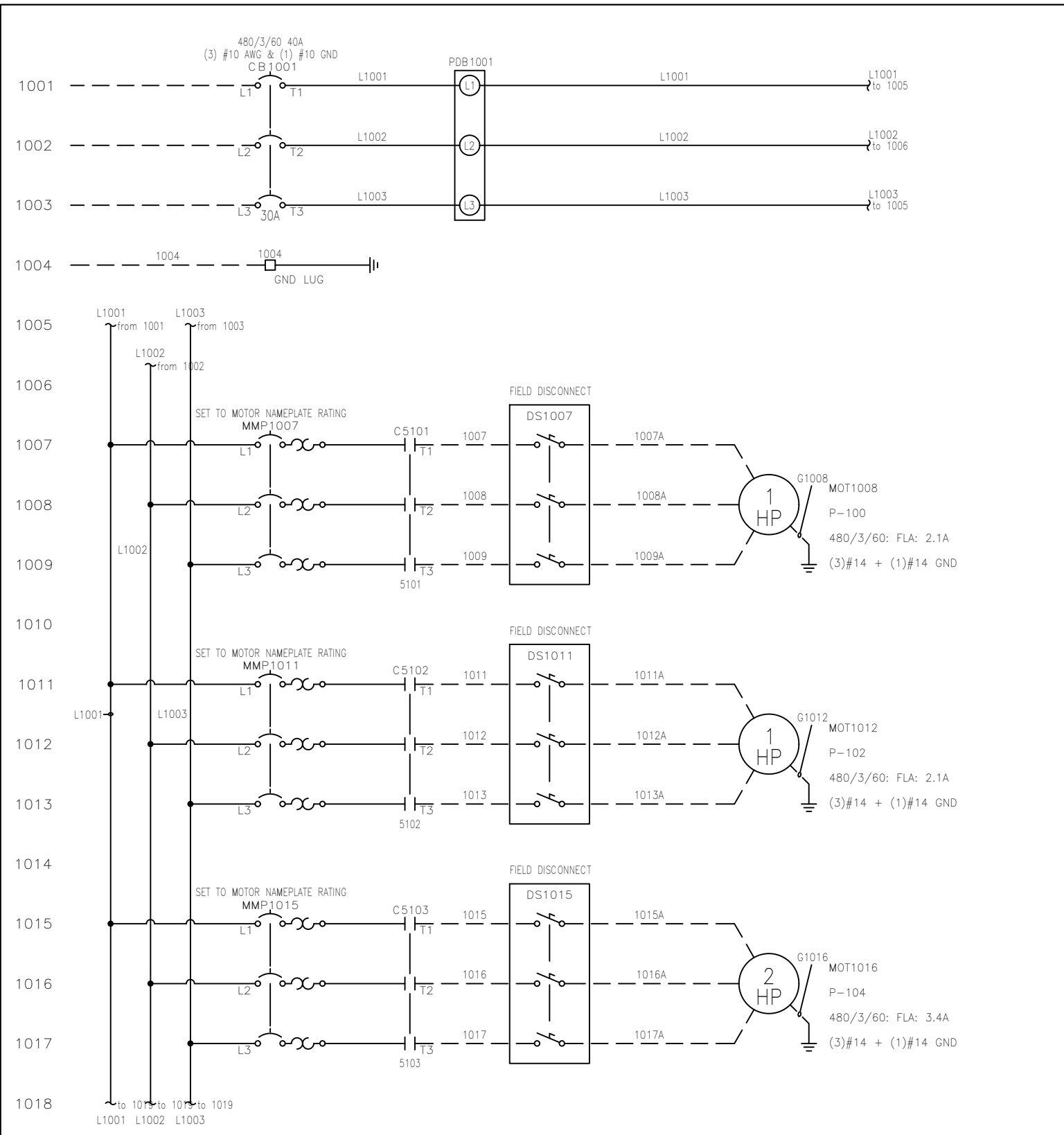
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CHECKED BY: RJW	DATE: 01.10.18			DATE: —
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033	DATE: —
TITLE: CONVEYOR CONTROL PANEL INNER PANEL LAYOUT		DRAWING NO. C 17033-103	REV. A1	DATE: [A1] 02.12.18 MJC
				DATE: [A] 01.29.18 MJC



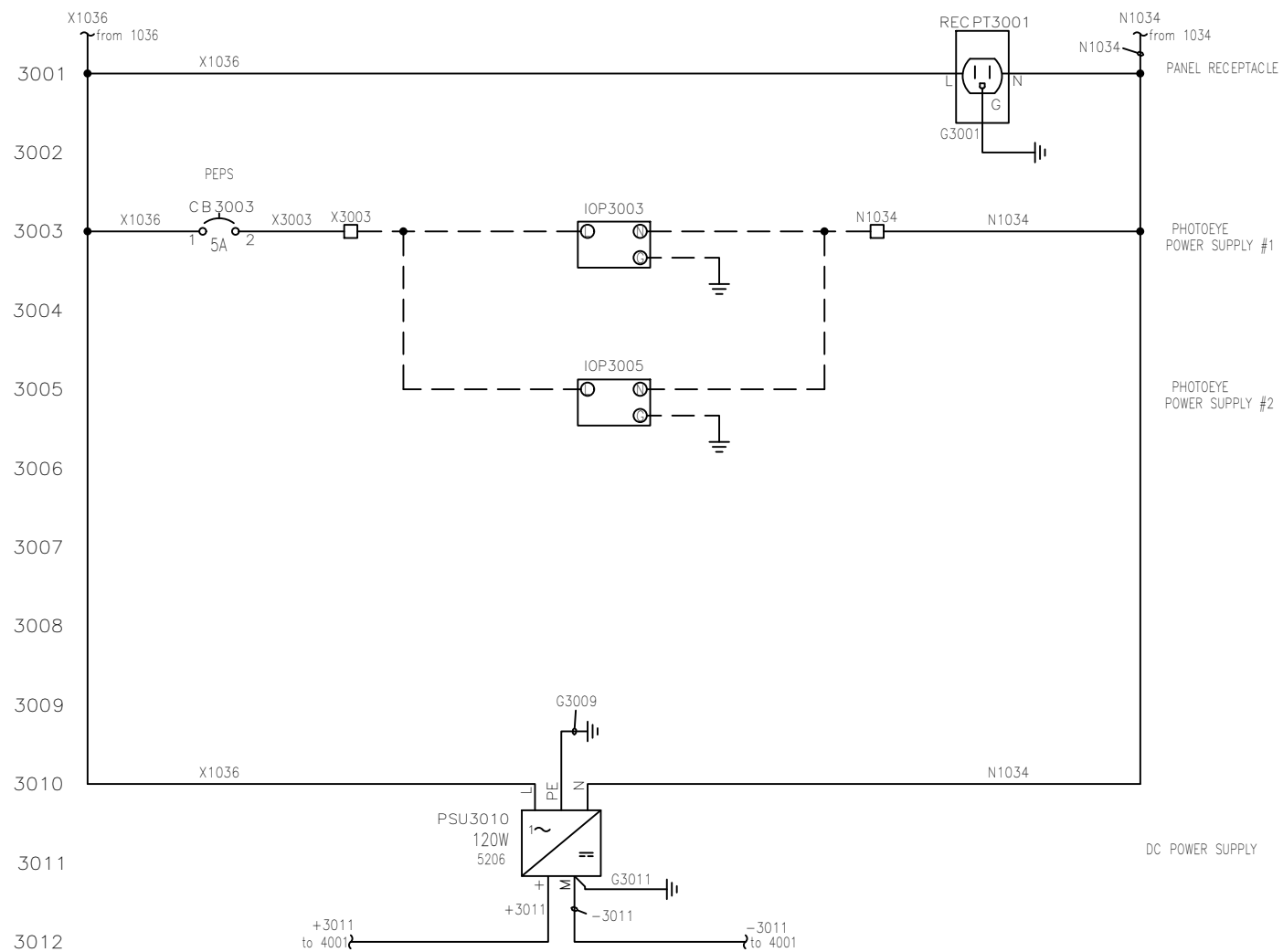
PENDANT AUTOMATION INC.
 HAVRE DE GRACE, MD 21078
 SUPPLY: 480/3/60
 FULL LOAD AMPS: 27.65A
 MAIN DISCONNECT: 30A
 LARGEST MOTOR: 2HP @ 3.4A
 SCCR: 10kA
 RATING: TYPE 12/IP66
 PROJECT NUMBER: C17033
 DRAWING SERIES: 100



DRAWN BY: MJC	DATE: 01.08.18	PENDANT AUTOMATION <small>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</small>	DATE: —
CHECKED BY: RJW	DATE: 01.10.18		DATE: —
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033
TITLE: CONVEYOR CONTROL PANEL NAMEPLATE DETAIL		DRAWING NO. C 17033-104	REV. A1
		DATE: [A1] 02.12.18 MJC	DATE: [A] 01.29.18 MJC



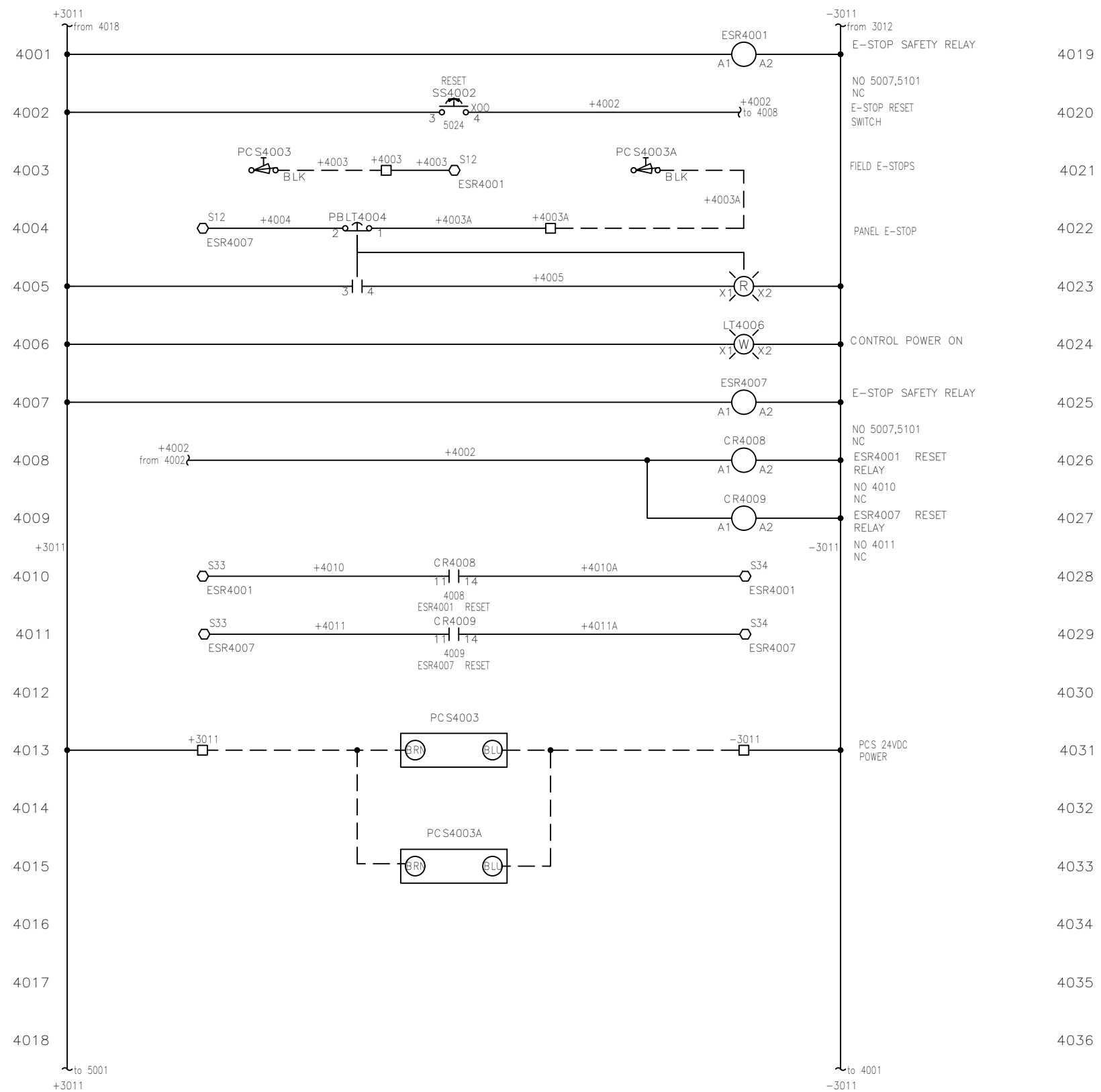
DRAWN BY: MJC	DATE: 01.08.18	PENDANT AUTOMATION	518 B YOUNG ST. HAVRE DE GRACE, MD 21078	DATE: _____
CHECKED BY: RJW	DATE: 01.10.18			DATE: _____
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033	DATE: _____
TITLE: CONVEYOR CONTROL PANEL 480 POWER LADDER DIAGRAIM		DRAWING NO. C 17033-105	REV. A1	DATE: [A1] 02.12.18 MJC
				DATE: [A] 01.29.18 MJC



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RESERVED FOR FUTURE USE

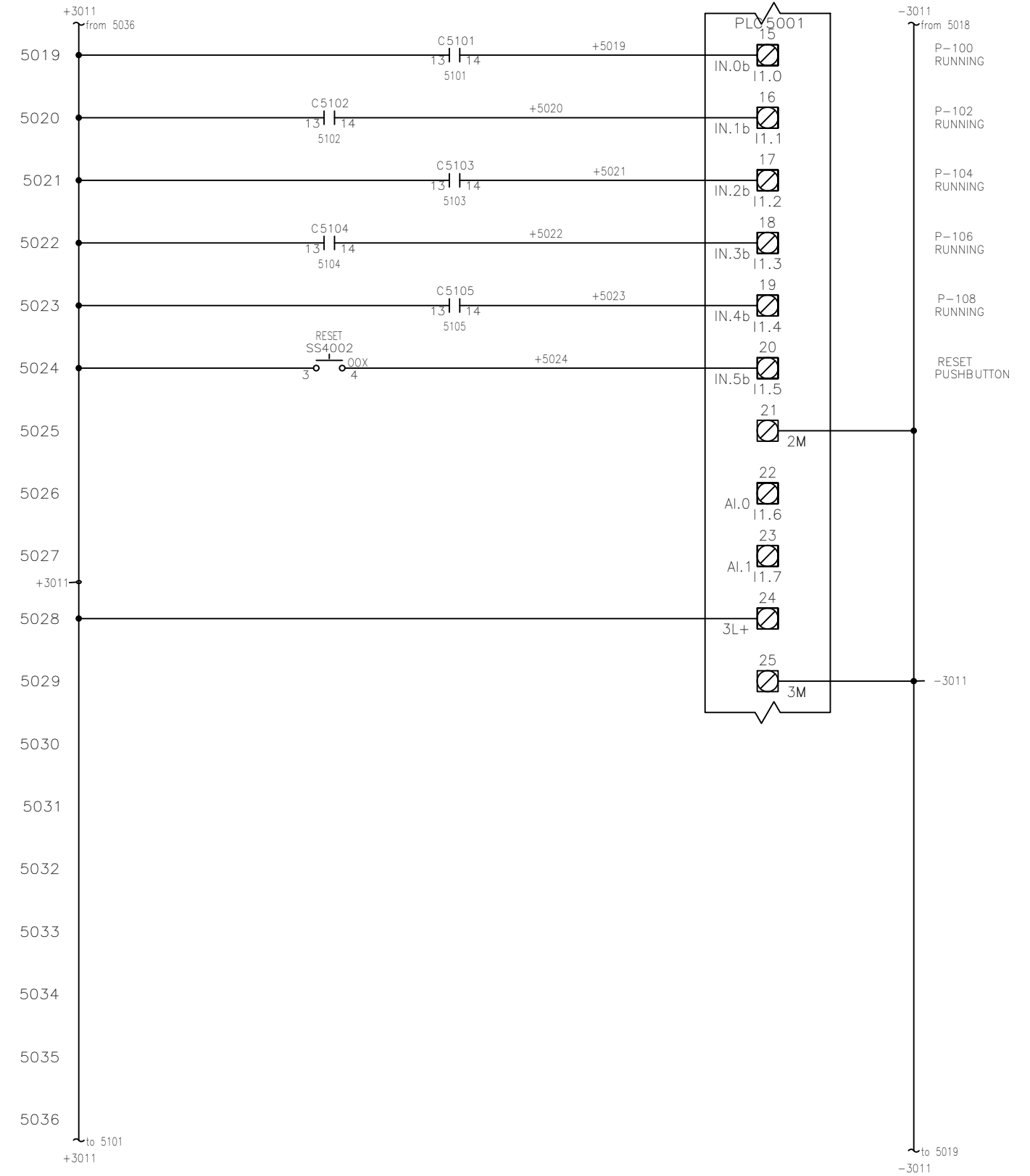
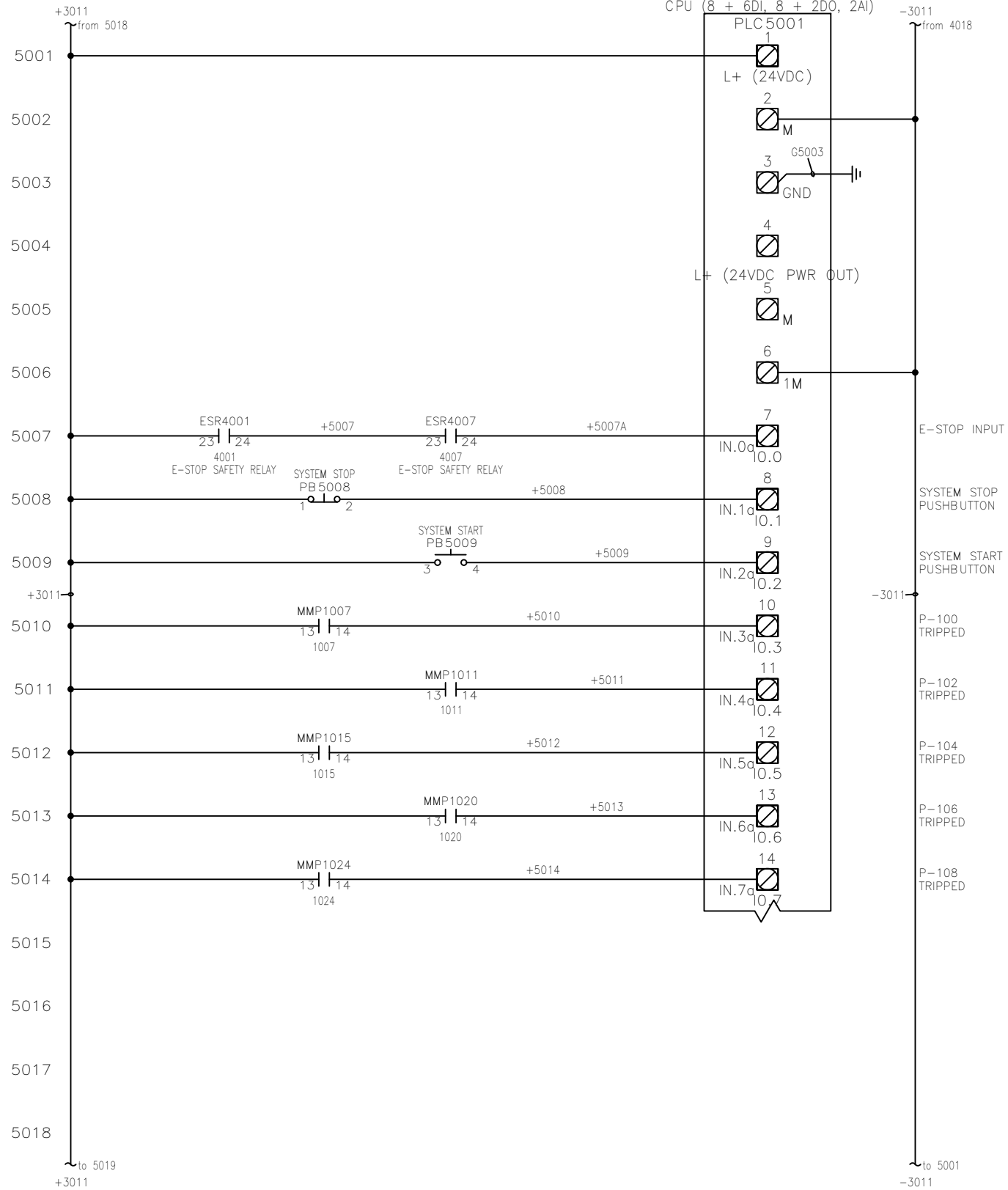
DRAWN BY: MJC	DATE: 01.08.18	PENDANT AUTOMATION	518 B YOUNG ST. HAVRE DE GRACE, MD 21078	DATE: —
CHECKED BY: RJW	DATE: 01.10.18			DATE: —
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033	DATE: —
TITLE: CONVEYOR CONTROL PANEL 120 POWER LADDER DIAGRAIM		DRAWING NO. C 17033-106	REV. A1	DATE: [A1] 02.12.18 MJC
				DATE: [A] 01.29.18 MJC



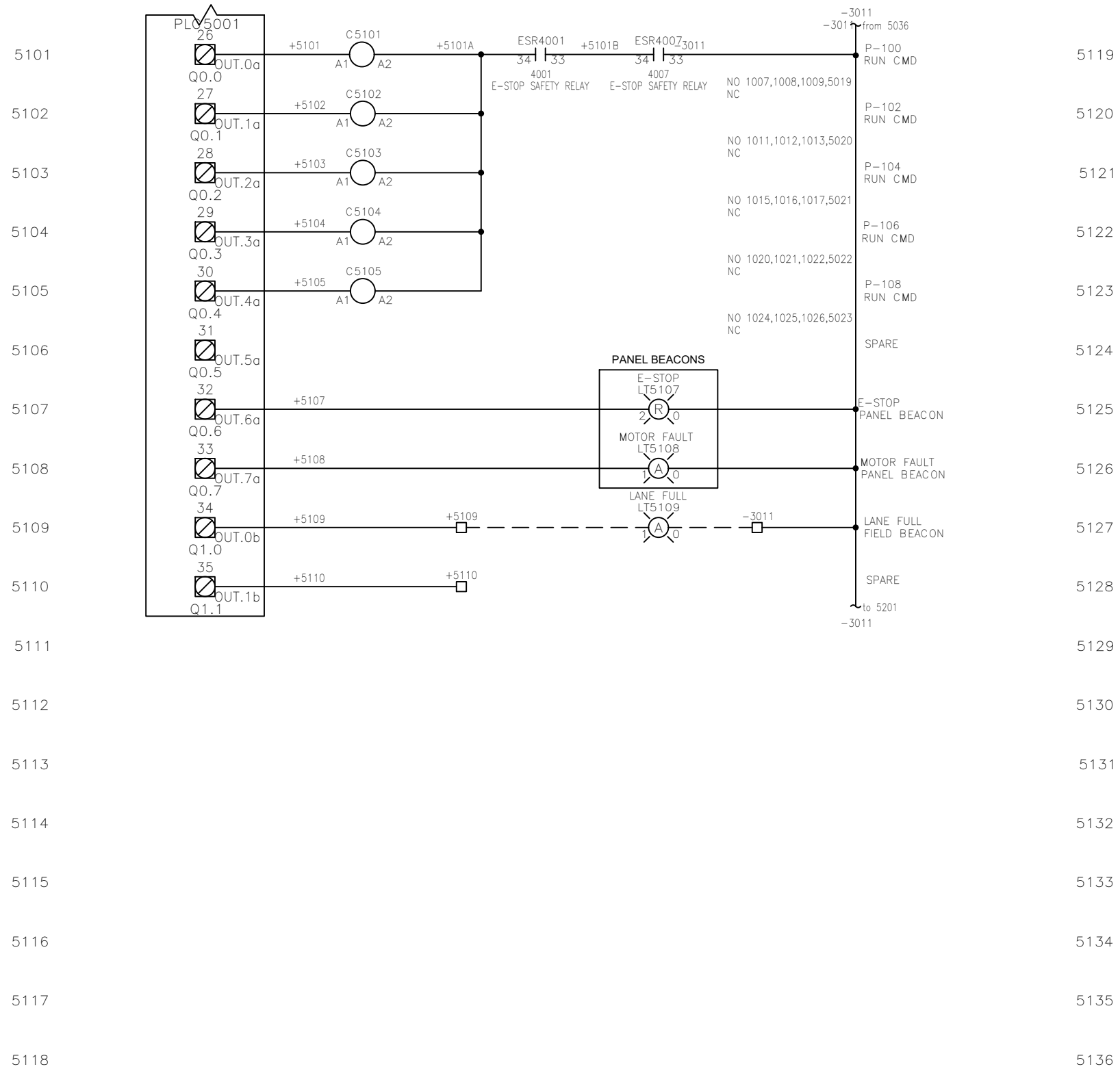
RESERVED FOR FUTURE USE

DRAWN BY:	DATE:	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <h2 style="margin: 0;">PENDANT</h2> <p style="margin: 0;">AUTOMATION</p> </div> <div style="text-align: right; font-size: 10px;"> <p>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</p> </div> </div>		DATE: —
CHECKED BY:	DATE:			DATE: —
APPROVED BY:	DATE:			DATE: —
		PROJECT NAME:	PROJECT NO.	DATE: —
		STERICYCLE	C 17033	DATE: [A1] 02.12.18 MJC
TITLE: CONVEYOR CONTROL PANEL 24 POWER LADDER DIAGRAIM		DRAWING NO.:	REV.:	DATE: [A] 01.29.18 MJC
		C 17033-107	A1	

6ES7 214-1AG31-0XB0
SIEMENS
RACK 0, SLOT 1
CPU (8 + 6DI, 8 + 2DO, 2AI)

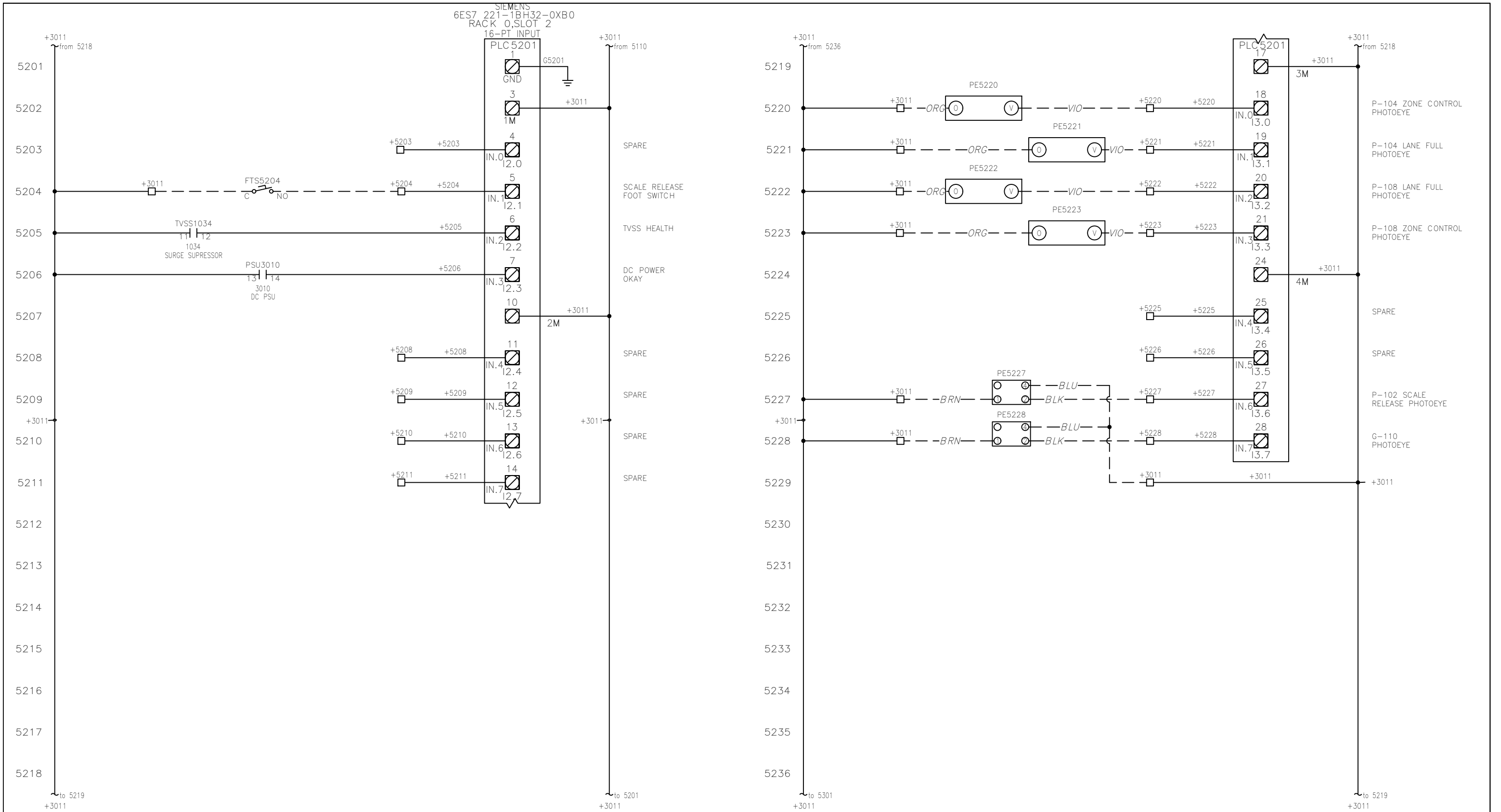


DRAWN BY: MJC	DATE: 01.08.18	PENDANT AUTOMATION <small>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</small>	DATE: —
CHECKED BY: RJV	DATE: 01.10.18		DATE: —
APPROVED BY:	DATE:		PROJECT NAME: STERICYCLE
TITLE: CONVEYOR CONTROL PANEL PLC I/O		DRAWING NO. C 17033-108	REV. A1
			DATE: [A1] 02.12.18 MJC
			DATE: [A] 01.29.18 MJC



RESERVED FOR FUTURE USE

DRAWN BY: MJC	DATE: 01.08.18	PENDANT AUTOMATION	518 B YOUNG ST. HAVRE DE GRACE, MD 21078	DATE: —
CHECKED BY: RJW	DATE: 01.10.18			DATE: —
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033	DATE: —
TITLE: CONVEYOR CONTROL PANEL PLC I/O (2)		DRAWING NO. C 17033-109	REV. A1	DATE: [A1] 02.12.18 MJC
				DATE: [A] 01.29.18 MJC



DRAWN BY: MJC	DATE: 01.08.18	PENDANT AUTOMATION <small>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</small>	DATE: —
CHECKED BY: RJW	DATE: 01.10.18		DATE: —
APPROVED BY:	DATE:		PROJECT NAME: STERICYCLE
TITLE: CONVEYOR CONTROL PANEL PLC I/O (3)		DRAWING NO. C 17033-110	REV. A1
			DATE: [A1] 02.12.18 MJC
			DATE: [A] 01.29.18 MJC

TAGS	QTY	CATALOG	MFG	ASSYCODE
MMP1007 MMP1011 MMP1020 MMP1024	4	140M-C2E-B25	A-B	140M-C-AFA11,140M-C-PEC23
MMP1015	1	140M-C2E-B40	A-B	140M-C-AFA11,140M-C-PEC23
CB1031	1	FAZ-C3-2-NA	EATON	
CB3003	1	FAZ-C5-1-NA-SP	EATON	
CB1036	1	FAZ-C7-1-NA-SP	EATON	
CB1001	1	G3P-030	EATON	GHMVD12B
C5101 C5102 C5103 C5104 C5105	5	100-C09UEJ10	A-B	
ESR4001 ESR4007	2	2963802	PHOENIX	
DS1007 DS1011 DS1015 DS1020 DS1024	5	3LD2064-1GP51-0US2	SIEMENS	
RECPT3001	1	ZP-PGA-32-201	ZIPPort	
PDB1001	1	MPDB67113	MERSEN	(3) MPDBC6667
LT4006	1	800FP-P7PN3W	A-B	
LT5107	1	855EC-Y24Y4Y5	A-B	
PB5008	1	800FP-E4PX01	A-B	
PB5009	1	800FP-F3PX10	A-B	
PBLT4004	1	800FP-LMT44PN3RX11S	A-B	
ENCLOSURE	1	CSD42368	HOFFMAN	CP4236, AFK1808
CABLE	1	NK5EPC5BLY	PANDUIT	
PLC5001	1	6ES7 214-1AG31-0XB0	SIEMENS	
PLC5201	1	6ES7 221-1BH32-0XB0	SIEMENS	
PLC5301	1	6ES7 222-1BH32-0XB0	SIEMENS	
PSU3010	1	2904600	PHOENIX	
SS4002	1	800FP-SB32	A-B	
TVSS1034	1	2905228	PHOENIX	
CCT1032	1	PH500MQMJ	HAMMOND	(2) FG4

DRAWN BY: MJC	DATE: 01.08.18	PENDANT <i>AUTOMATION</i> <small>518 B YOUNG ST. HAVRE DE GRACE, MD 21078</small>	DATE: —
CHECKED BY: RJW	DATE: 01.10.18		DATE: —
APPROVED BY:	DATE:	PROJECT NAME: STERICYCLE	PROJECT NO. C 17033
TITLE: CONVEYOR CONTROL PANEL BILL OF MATERIALS		DRAWING NO. C 17033-112	REV. A1
		DATE: [A1] 02.12.18 MJC	DATE: [A] 01.29.18 MJC