

REV REVISI□N		DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	10/09/12	22722	CHR	DMS
J-1	ADDED GROUND TERMINAL BLOCKS	05/05/25	PXEC0688	JRD	WMM
K-1	ADDED PLEX ISOLATION	08/04/25	PXEC0639	SEK	WMM

OPTIONAL:	

P WEREX

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DRAWN BY	CHECKED BY	ENGINEERING APPR□VAL	
CHR	DMS	DMS	
10/09/12	10/09/12	10/09/12	

PANEL TYPE

QUAD LAB 2X SCROLL HMI, NFPA

WIRING

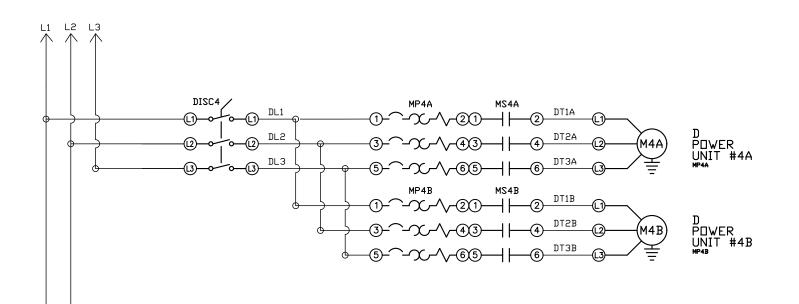
DWG. NO.

PXMI-LS416X

SHEET

SIZE

W - 1



L1 L2

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QUAD LAB 2X SCROLL HMI, NFPA

OWG. TYPE WIRING

DWG. NE

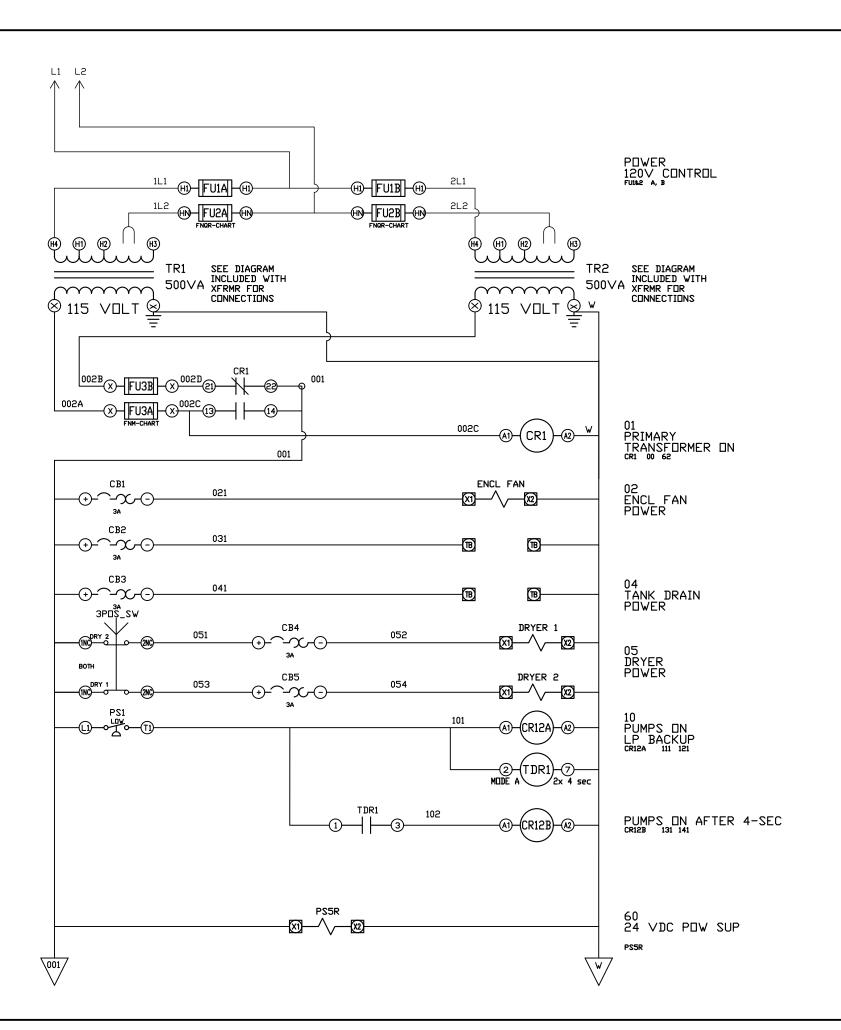
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SHEET

SIZE

W-2

B



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WIRING

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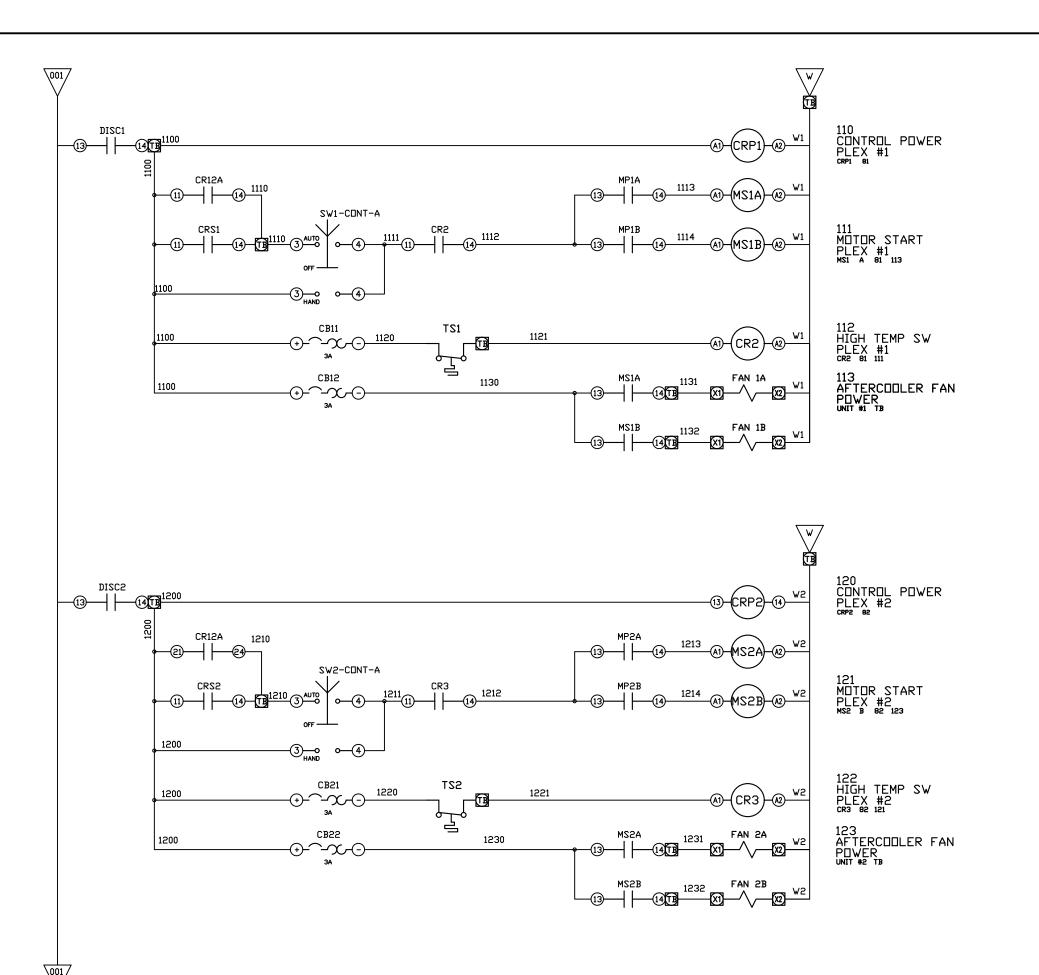
PXMI-LS416X

SHEET

SIZE

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M-3



RE∨	/ REVISION		ECN	NAME	СНКД
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10/09/12	10/09/12	10/09/12		

PANEL TYPE

QUAD LAB 2X SCROLL HMI, NFPA

WIRING

DWG. NO.

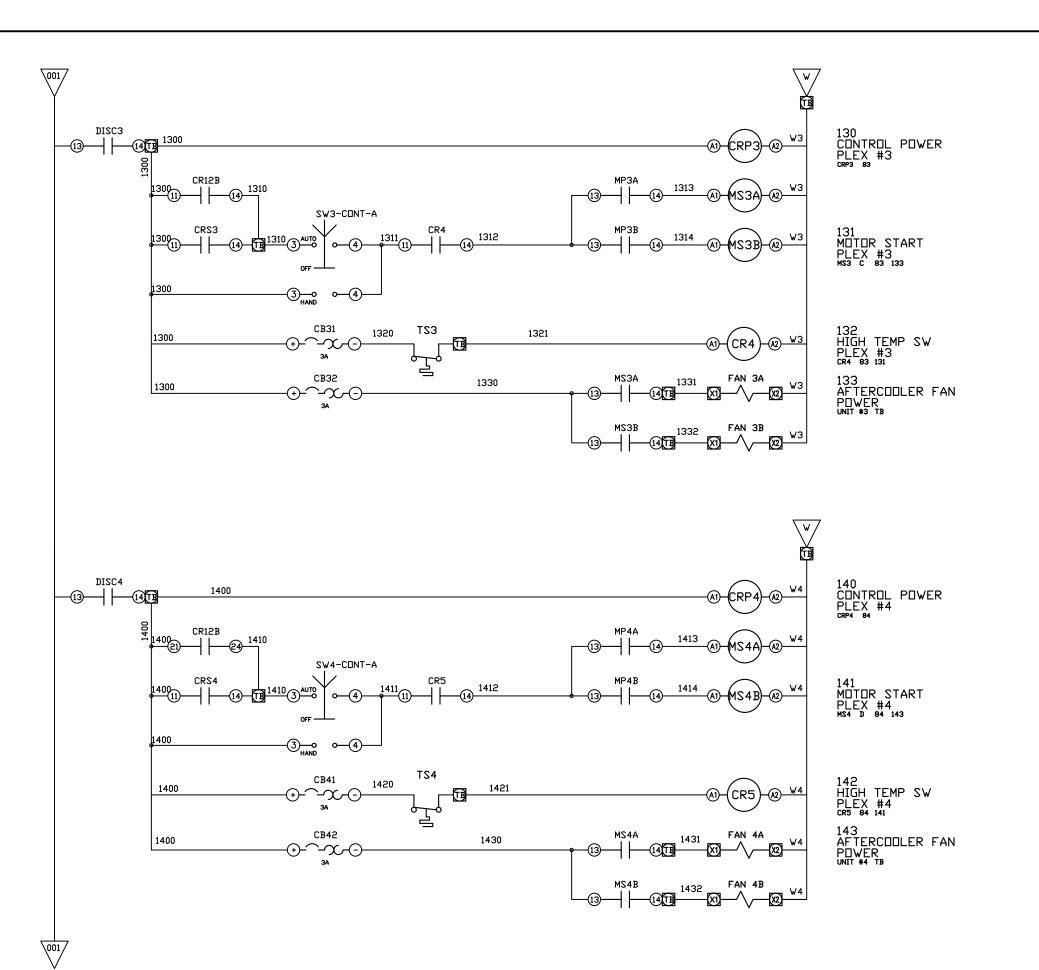
PXMI-LS416X

SHEET

SIZE

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W-4



REV REVISION DATE ECN NAME CHKD B-1 RELEASE TO PRODUCTION 10/09/12 22722 J-1 ADDED GROUND TERMINAL BLOCKS 05/05/25 PXEC0688 JRD K-1 08/04/25 PXEC0639 ADDED PLEX ISOLATION SEK

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10/09/12	10/09/12	10/09/12		

PANEL TYPE

QUAD LAB 2X SCROLL HMI, NFPA

DWG. TYPE WIRING

DWG. ND.

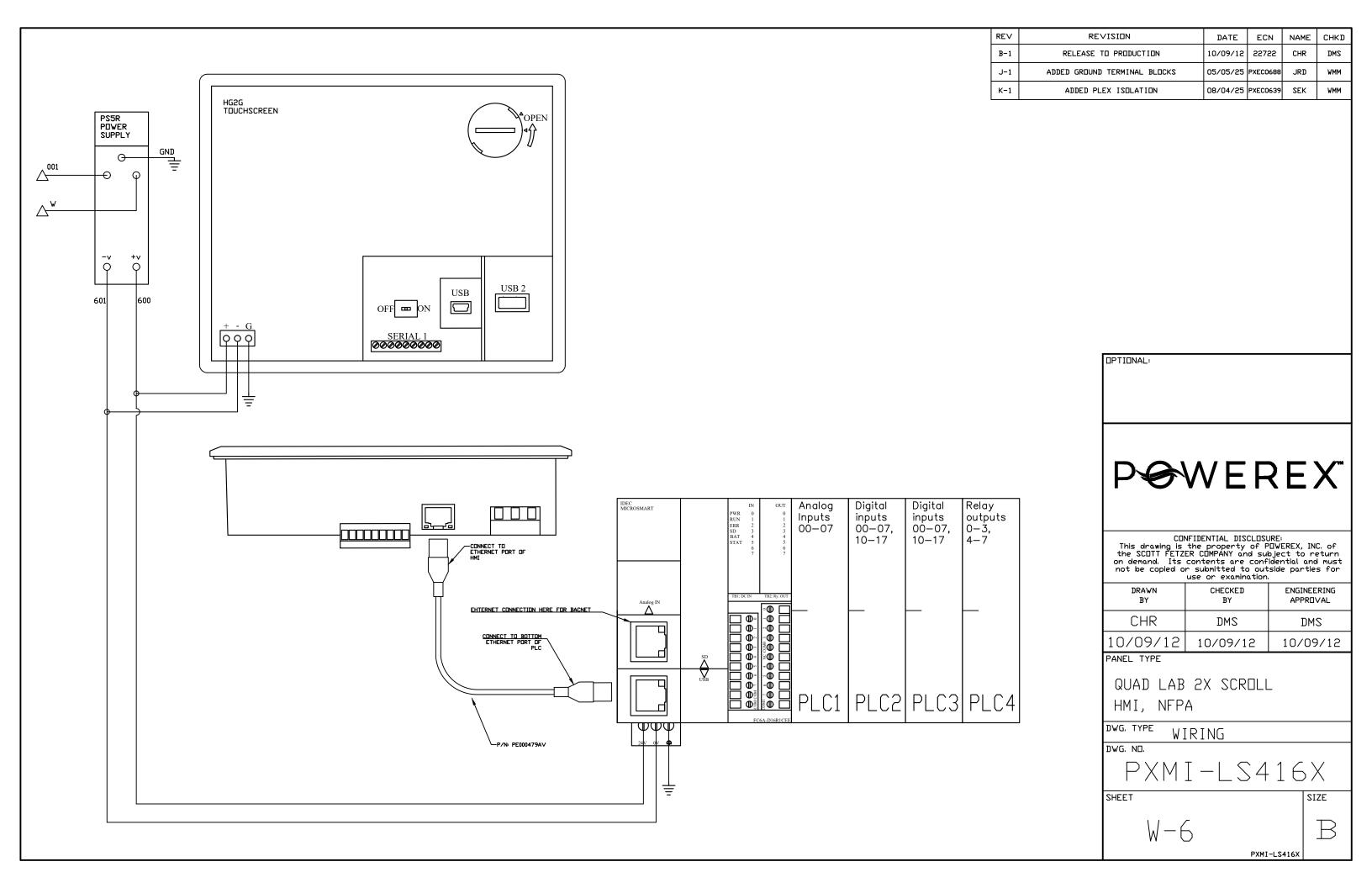
PXMI-LS416X

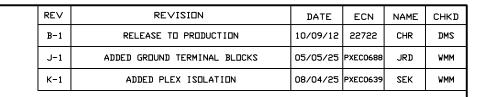
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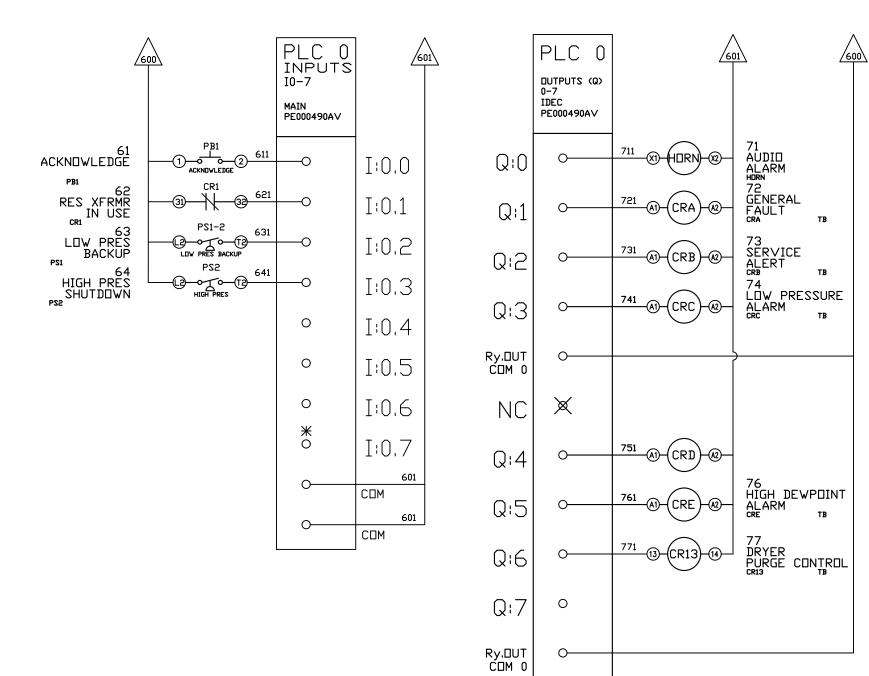
SIZE

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W-5







*FACTORY TEST JUMPER LOCATION

OPTIONAL:

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DWG. TYPE WIRING

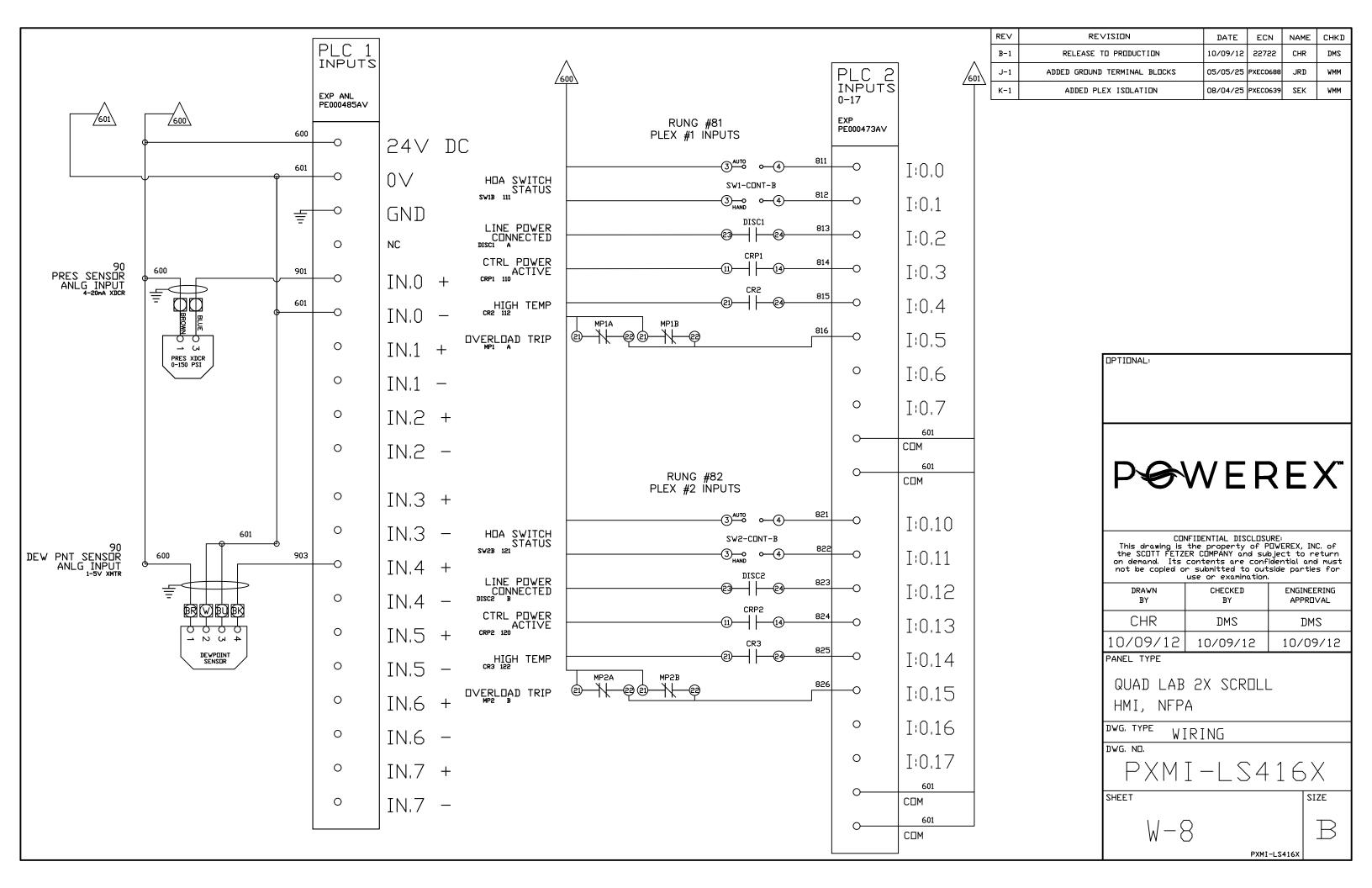
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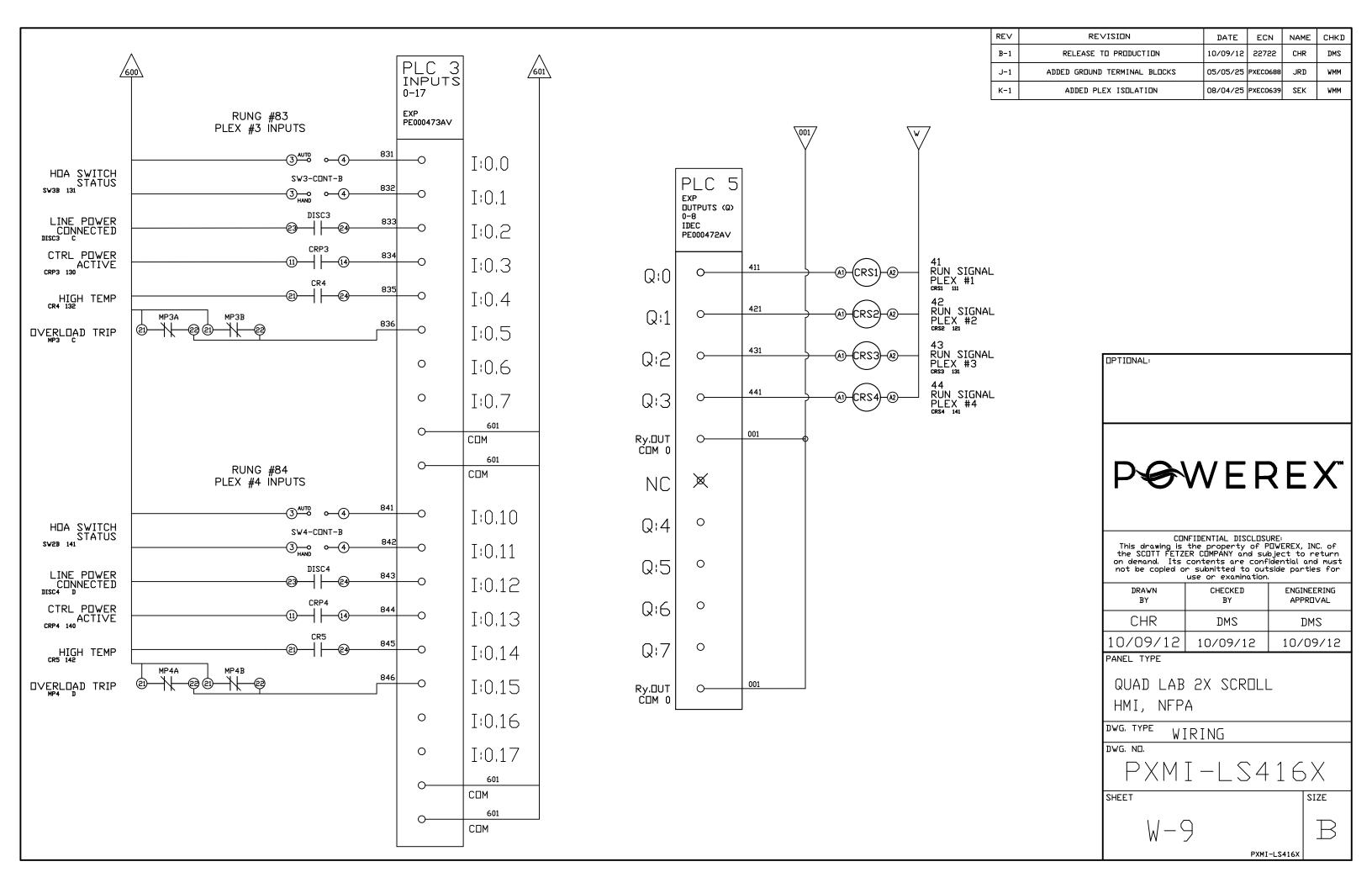
PXMI-LS416X

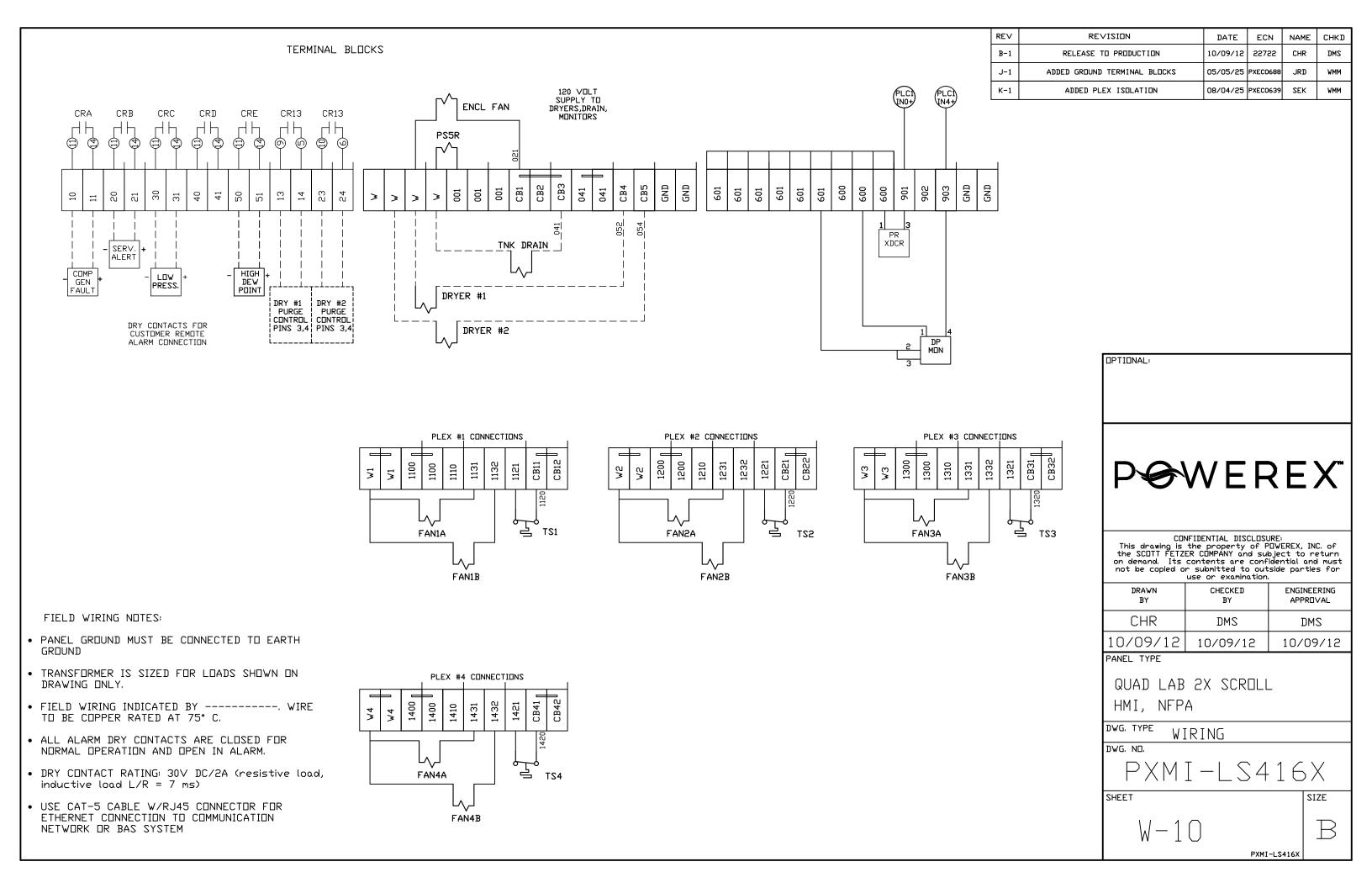
SHEET

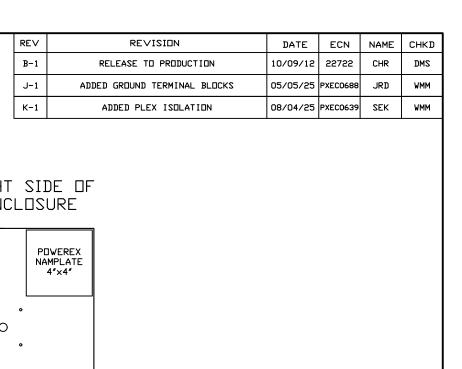
SIZE

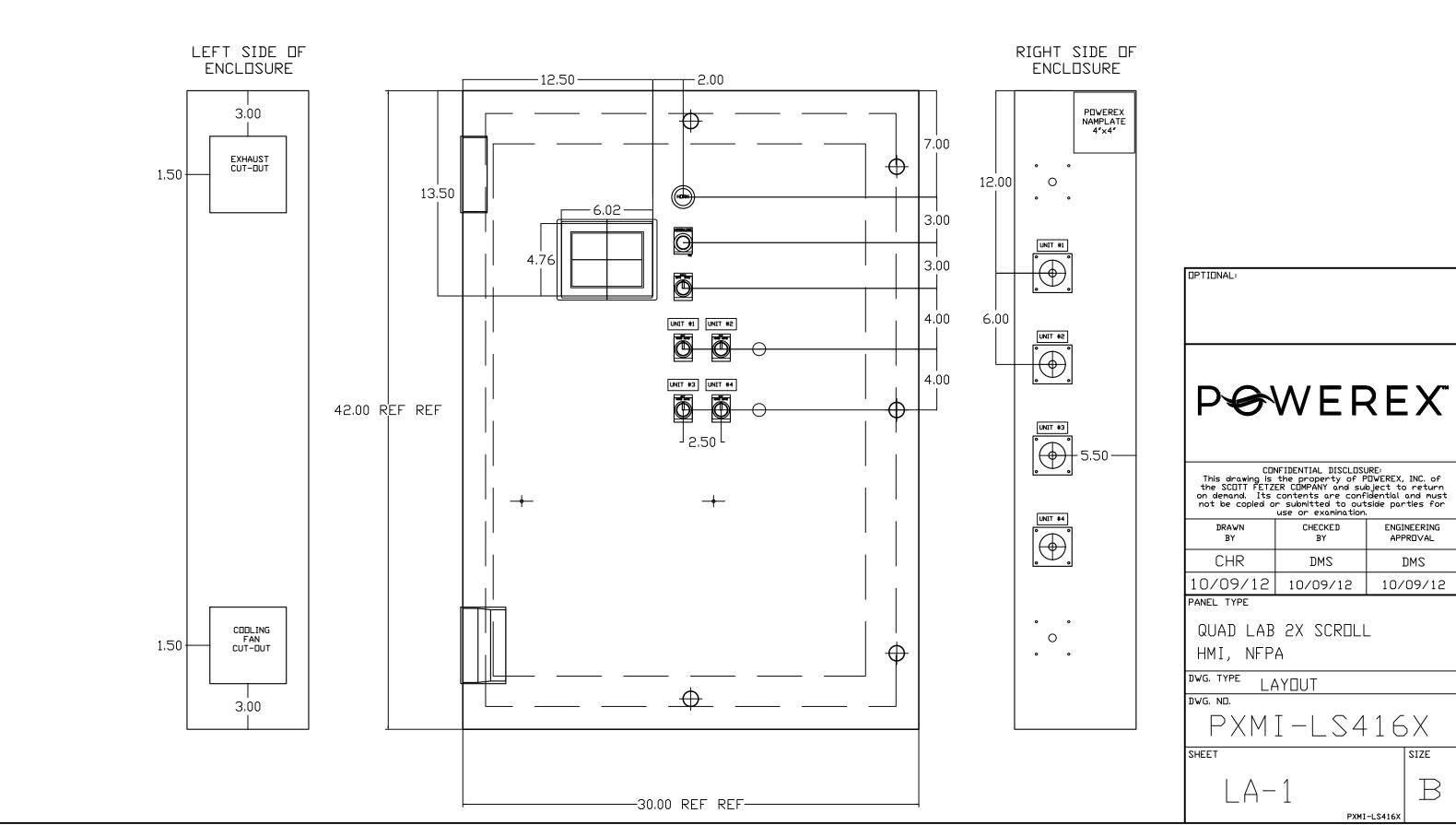
W-7



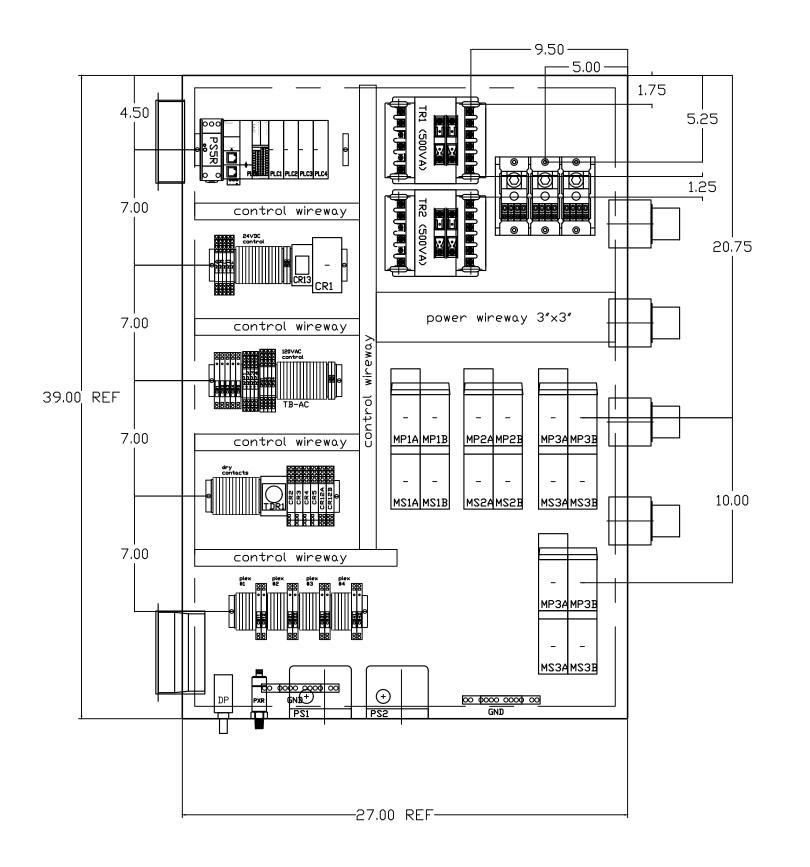








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PANEL TYPE

QUAD LAB 2X SCROLL HMI, NFPA

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DWG. N□.

PXMI-LS416X

SHEET

SIZE

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LA-2

TABLE 1

	IADL	'							
	PANEL DATA 500VA CONTROL	3ø – 6 . CIRCUI							
(A) LOAD SPECIFICATIONS (A) LOAD SPECIFICATIONS (A) LOAD SPECIFICATIONS				(4) (4) (4) (4) (4) (4)	TAME (OB)	PROVIDE	D BY INSTA	<u>&</u>	
	PXMILS416A2AJ	5(X2)	208V/3ø	14.6	119.2	200A	150A	175A	
	PXMILS416A3AJ	5(X2)	230V/3ø	12.7	103.8	175A	125A	150A	
	PXMILS416A4AJ	5(X2)	460V/3ø	6.33	51.7	80A	70A	80A	
NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NO 115% OF MOTOR NAMEPLATE FLA VALUE							CEED		

NOTES:

- 1. RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS: 208-575 VOLT POWER 35 POUND INCHES 120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- 2. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- 3. INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE FOR THIS ELECTRICAL ASSEMBLY. SHORT CIRCUIT PROTECTION IS RECOMMENDED. SEE TABLE 1. IF PROVIDING PANEL SHORT CIRCUIT PROTECTION USING TIME DELAY (CLASS J) FUSES, PANEL SCCR IS 65KA. OTHERWISE, PANEL SCCR IS 5KA.
- 4. ALL WIRES MUST BE LABELED ON BOTH ENDS
- 5. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY.
 DO NOT CONNECT ANY OTHER DEVICES
- 6. \triangle -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
- 7. SERVICE DISCONNECT USAGE turn HDA switch to DFF position. Turn disconnect DF SAME UNIT to DFF position. Associated PLEX will be isolated for maintenance purposes. After completing maintenance, turn disconnect to DN position and return HDA switch to AUTD. This will return PLEX to normal operation.

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SEQUENCE OF OPERATIONS

During normal operation the PBMI controller will signal the Lead compressor to run when pressure drops below lead cut-in set-point and stop when the pressure reaches the lead cut-out set-point. Lead alternation to the next pump, will occur with each lead run signal or every 10-minutes (which ever happens first). If demand cannot be satisfied by the lead pump, the lag pump(s) will start and stop based upon the lag cut-in and cut-out set-points. When more than one pump is running, lead alternation will occur when the lowest cut-out set-point is satisfied, or after 10-minutes (which ever happens first). The HOA switch's place the pump in the following modes: Hand-turns pump on to run continuous. Off-disables pump from running. Auto-places pump in the "ready mode" and will start and stop based on sequence described above.

All plex configurations include a hardwired Back-up pressure switch circuit should a control failure occur. This circuit will call all pumps on and off based on the reserve pressure switch set-points.

Expandable systems include all control devices, operators, and programming for the maximum number of pumps (or plex) required. To expand the system: navigate to the "service screen" and enter the number of pumps.

Additional information and descriptions can be accessed through the HMI "service info" screen by pressing Sequence of Operations button.

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OPTIONAL:

QUAD LAB 2X SCROLL HMI, NFPA

DWG. TYPE DATA

DWG. NO.

PXMI-LS416X

SHEET

										_
CONTROL TRANSFORMERS - 500VA										DW
REPLACEMENT 208 230 460 575 380		WIRE TYPE TABLE								
USE TYPE VOLT		VULI	VULI	VOLT VOLTAGE WIRE NUMBERS GAUGE		COLOR				
U1,2A U1,2B	FNQR	6A	5A	5A	4A	120VAC 0VAC 24VDC	001-599,1100+ W 600-1099	16-18AWG 16-18AWG 16-18AWG	RED/BLK WHT/BLK	H2
U3A,B	FNM	7A	7 A	7A	7A	0∨DC GND	601	16-18AWG VARIES		
SEE XFRMR FOR CONNECTIONS						CUSTOMER SUPPLY	01-99	16-18AWG		