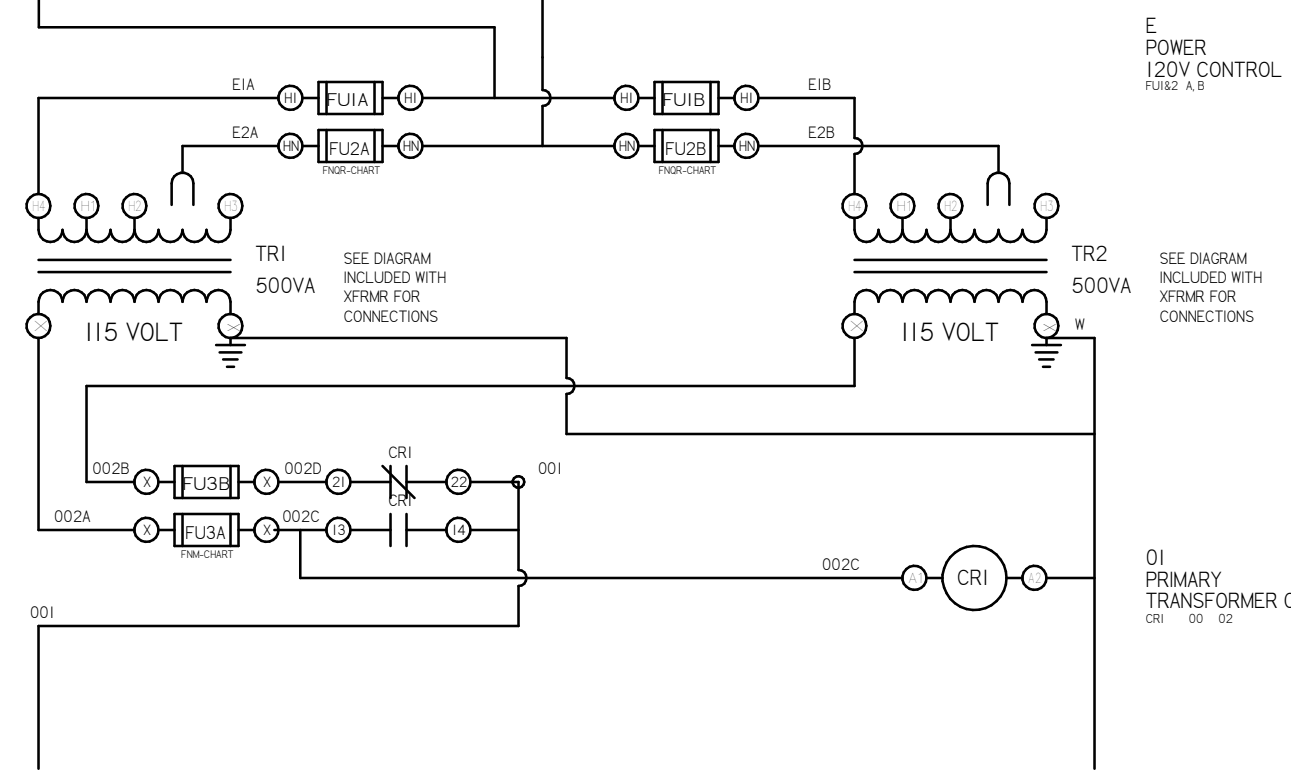


A
POWER
UNIT #1
MP1 10

B
POWER
UNIT #2
MP2 11

C
POWER
UNIT #3
MP3 12

D
POWER
UNIT #4
MP4 13



E
POWER
120V CONTROL
FU1&2 A, B

SEE DIAGRAM
INCLUDED WITH
XFRMR FOR
CONNECTIONS

O1
PRIMARY
TRANSFORMER ON
CRI 00 02

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD

OPTIONAL:

SINGLE CYLINDER AND SCROLLPUMPS

DOUBLE-CYLINDER PUMPS

BACNET, WEBSVR, TRIPLE-CYLINDER PUMPS



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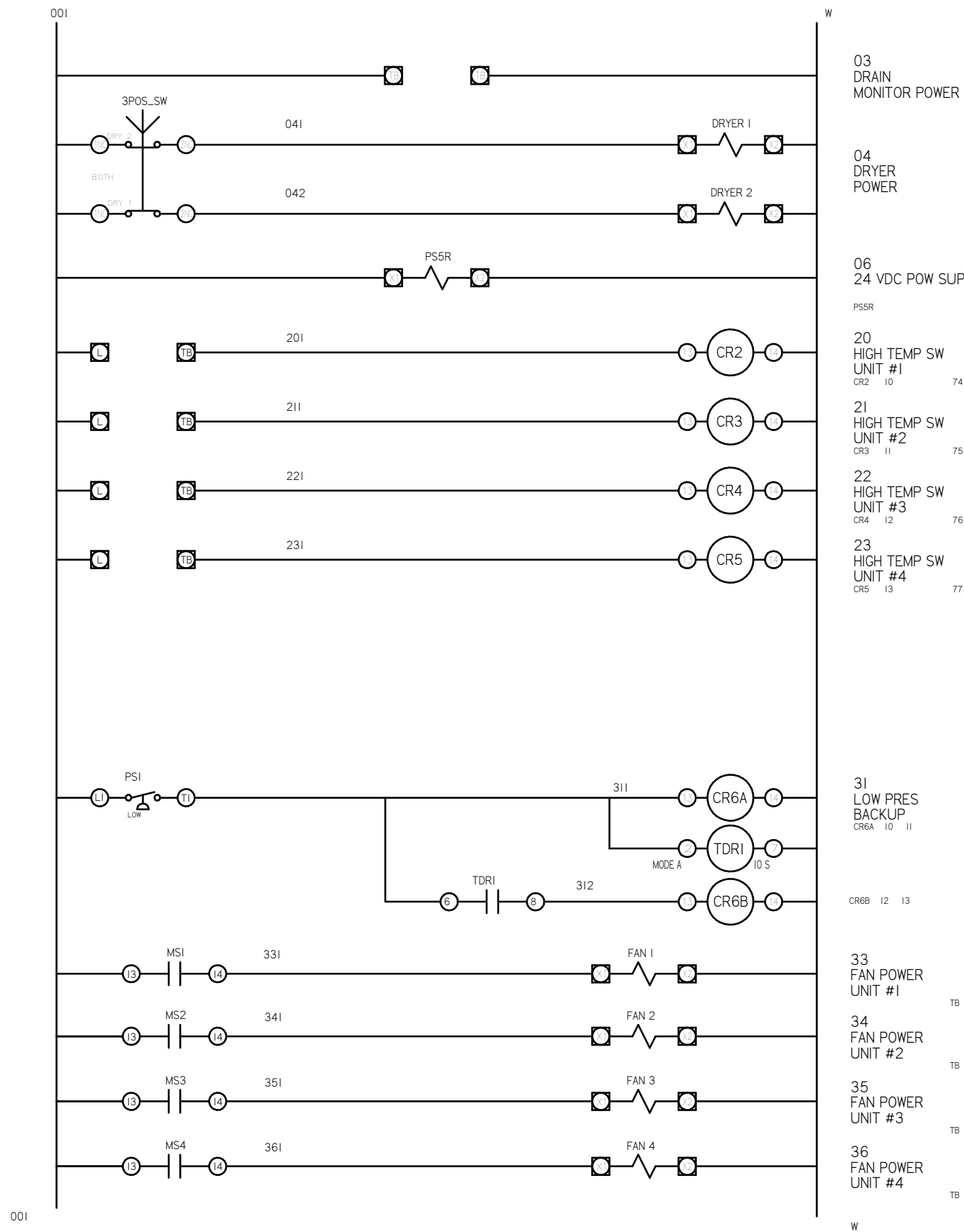
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE WIRING
DWG. NO. PXMI-A416 W

SHEET W-1
SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,		



CONFIDENTIAL DISCLOSURE:
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

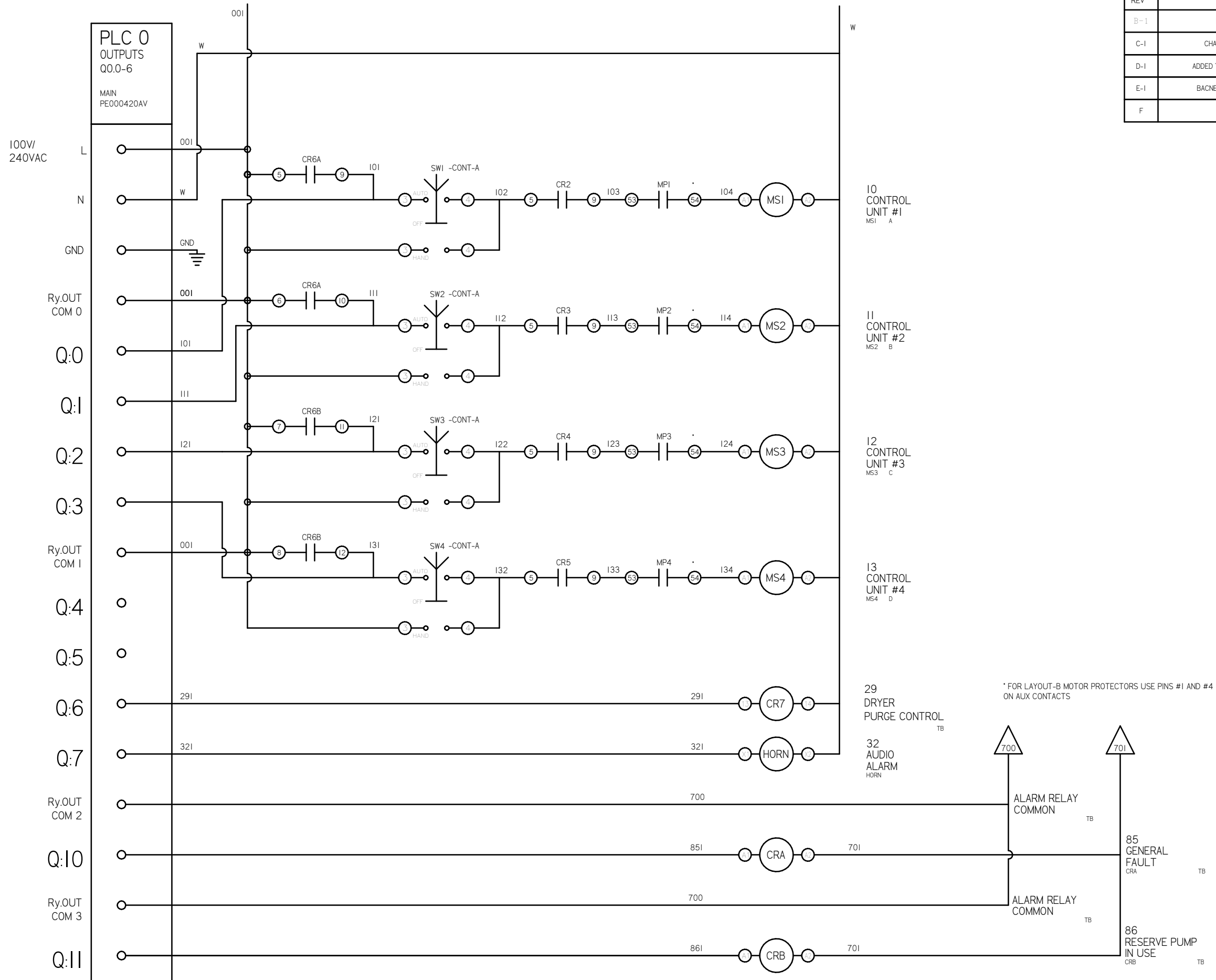
DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET W-2	SIZE B
--------------	-----------

001

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:

SINGLE CYLINDER AND SCROLLPUMPS	<input checked="" type="checkbox"/>
DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>

BACNET, WEBSRV,



CONFIDENTIAL DISCLOSURE
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

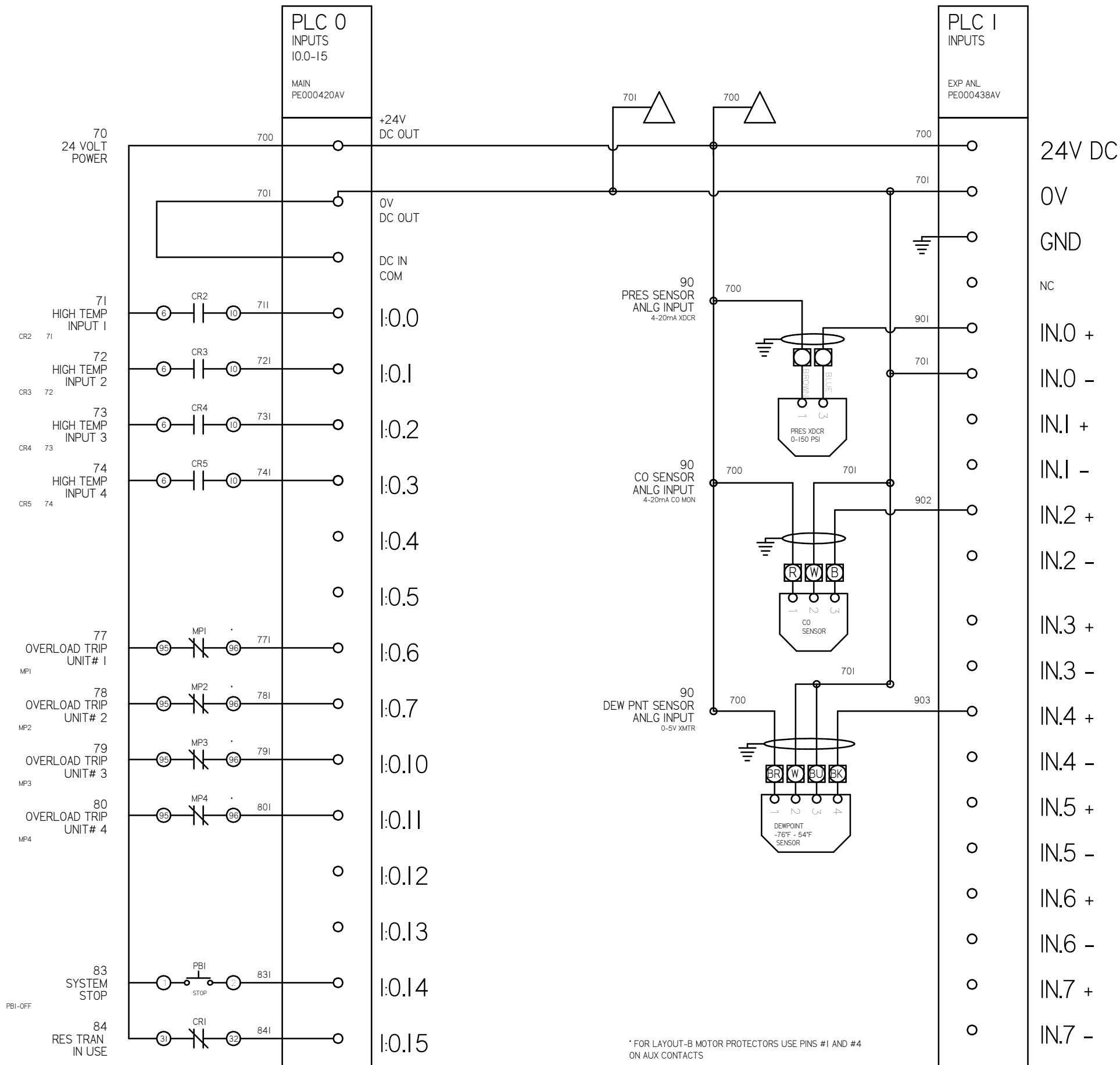
DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET
W-3

SIZE
B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

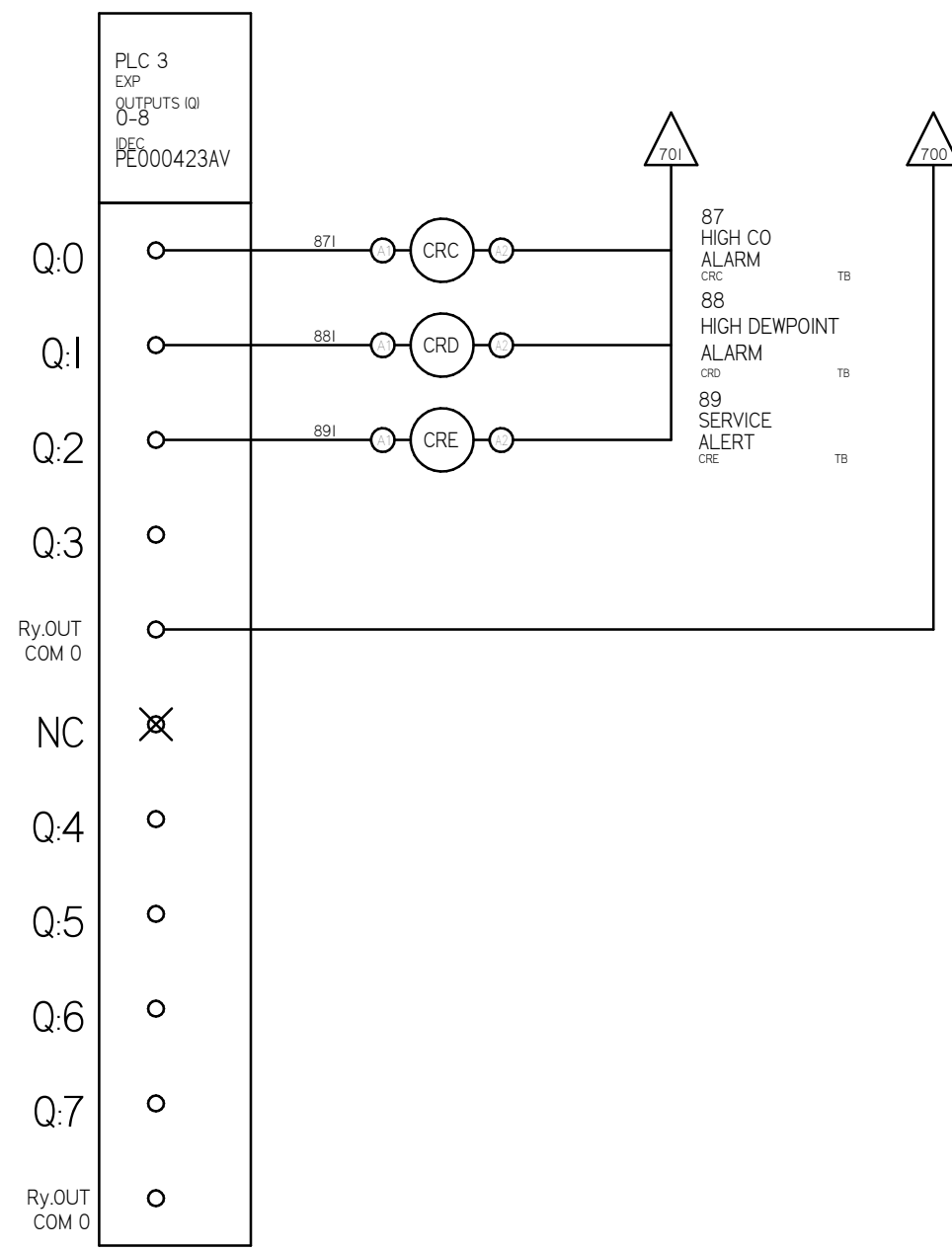
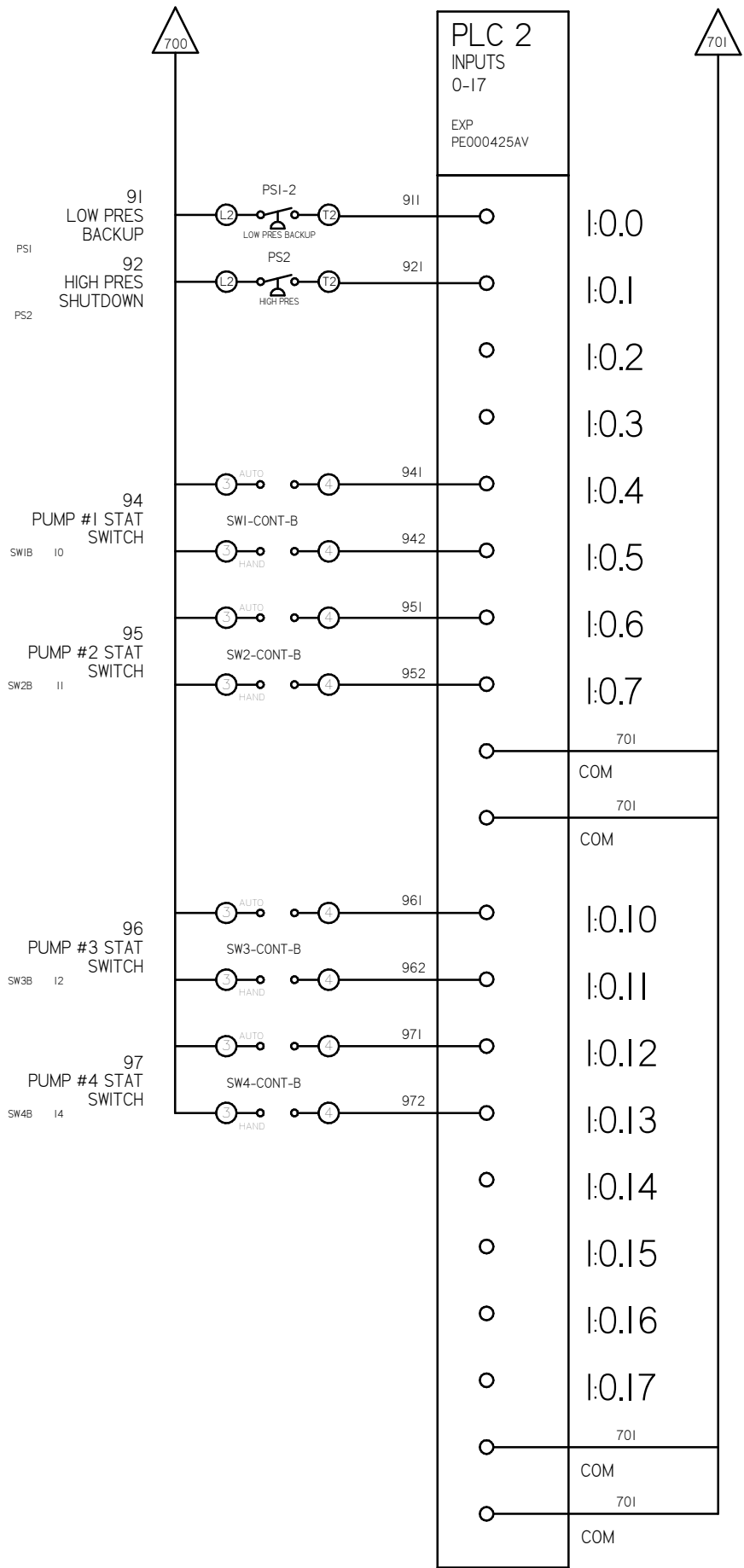
PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-A416 W

SHEET	SIZE
W-4	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC-33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:

SINGLE CYLINDER AND SCROLLPUMPS	<input checked="" type="checkbox"/>
DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>

BACNET, WEBSVR



CONFIDENTIAL DISCLOSURE
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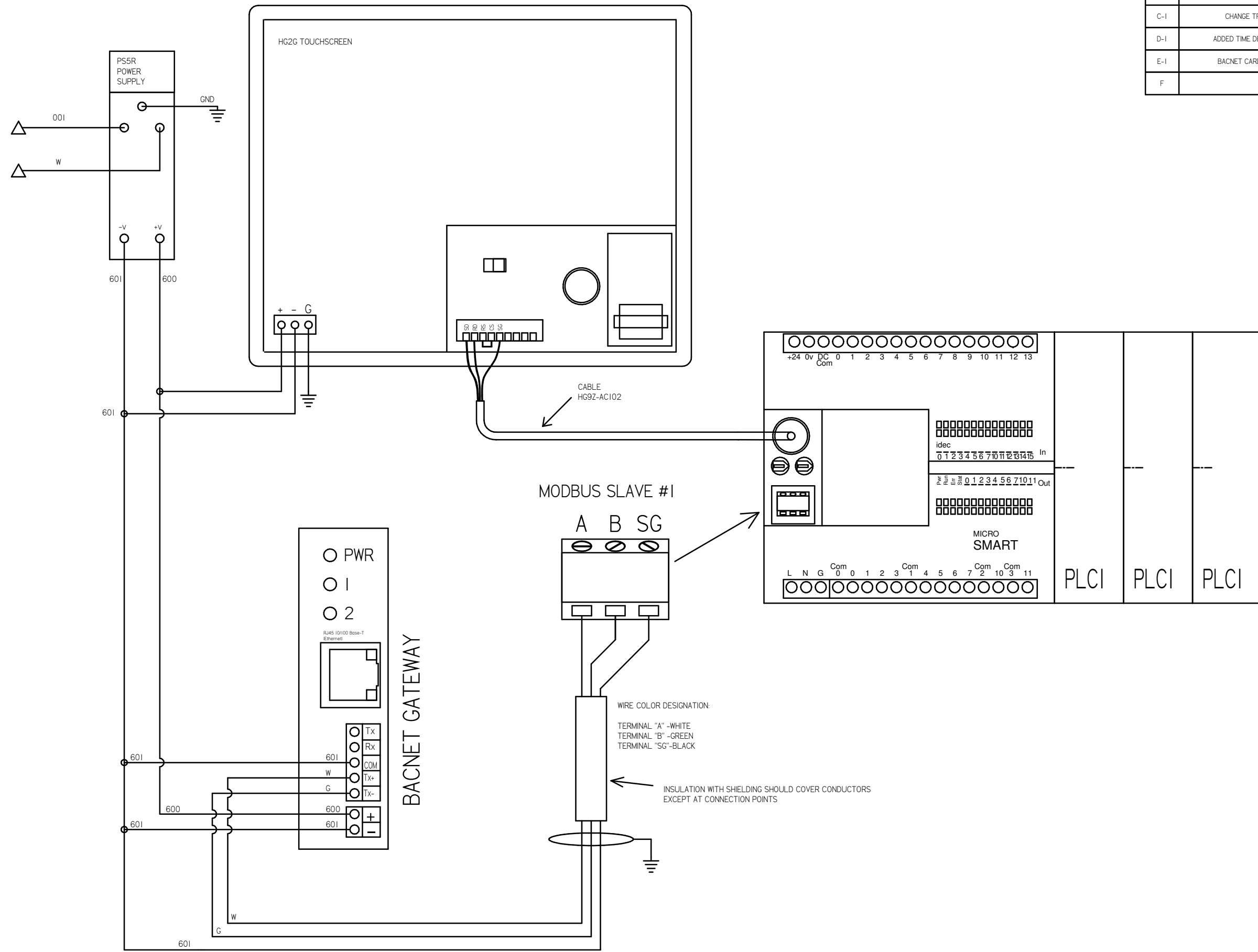
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE: WIRING
DWG. NO.: PXMI-A416 W

SHEET: W-5	SIZE: B
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REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,		



CONFIDENTIAL DISCLOSURE:
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

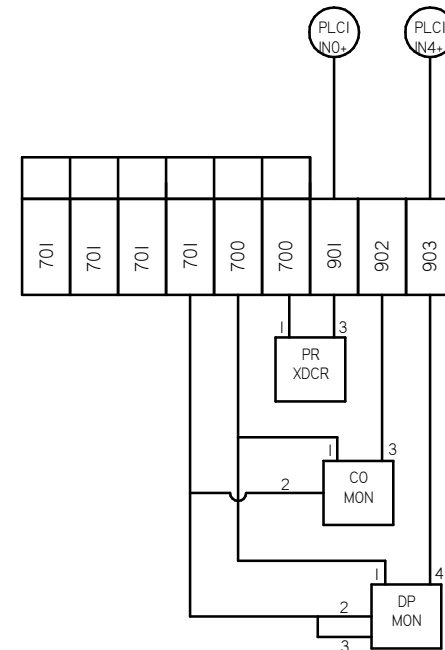
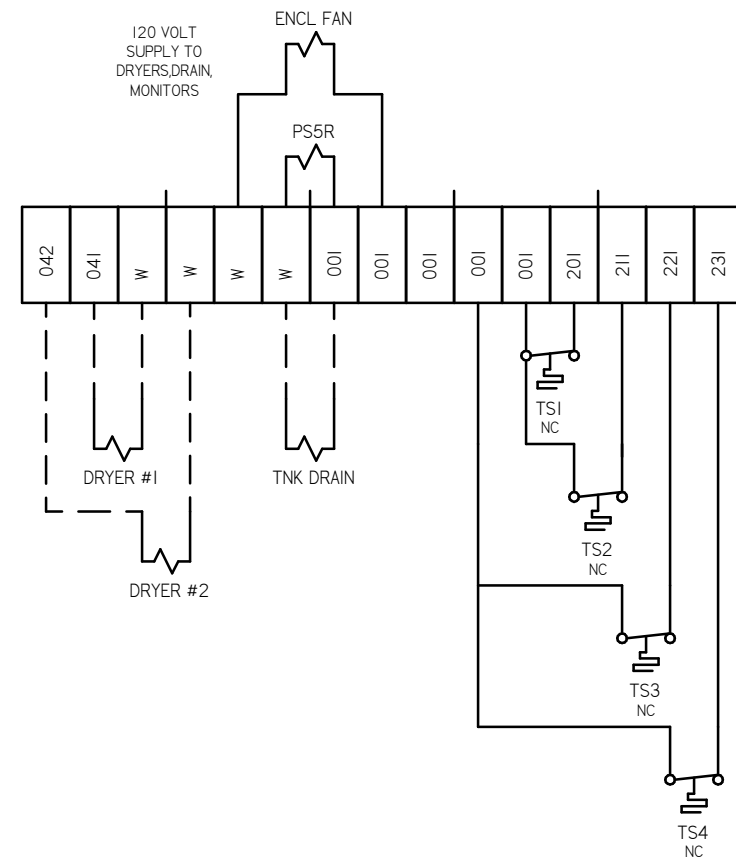
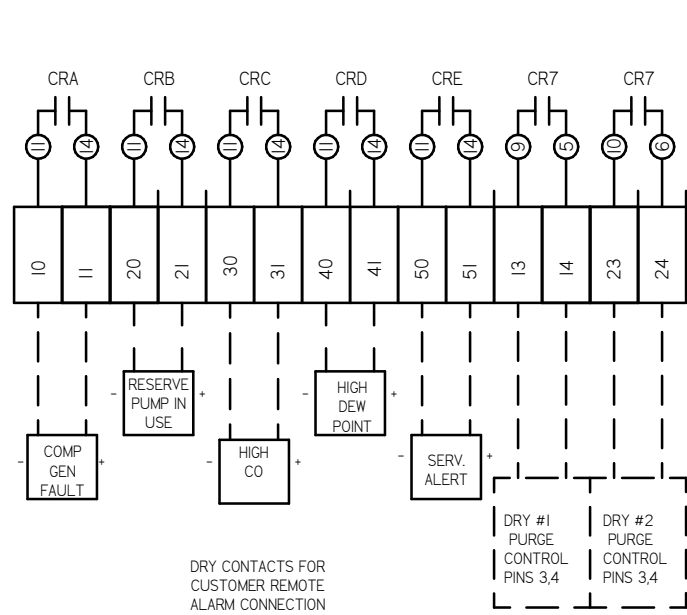
DWG. TYPE WIRING
DWG. NO. PXMI-A416 W

SHEET W-6
SIZE B

WIRE COLOR DESIGNATION:
TERMINAL "A" -WHITE
TERMINAL "B" -GREEN
TERMINAL "SG" -BLACK

INSULATION WITH SHIELDING SHOULD COVER CONDUCTORS EXCEPT AT CONNECTION POINTS

TERMINAL BLOCKS



FIELD WIRING NOTES:

1. PANEL GROUND MUST BE CONNECTED TO EARTH GROUND.
2. TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY.
3. FIELD WIRING INDICATED BY ----- WIRE TO BE COPPER RATED AT 75° C.
4. ALL ALARM DRY CONTACTS ARE CLOSED FOR NORMAL OPERATION AND OPEN IN ALARM.
5. DRY CONTACT RATING: 30V DC/2A (resistive load, inductive load L/R = 7 ms)
6. USE CAT-5 CABLE W/RJ45 CONNECTOR FOR ETHERNET CONNECTION TO COMMUNICATION NETWORK OR BAS SYSTEM



FAN WIRING
SEE RUNGS 33-36 FOR DETAILS

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD

OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET W-7	SIZE B
--------------	-----------

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
208V (3Ø)	72AJ	19.2	59.6	100	80	90
	A2AJ	26.5	81.5	150	110	125
230V (3Ø)	73AJ	17.3	53.9	90	70	90
	A3AJ	24	74	125	100	125
460V (3Ø)	74AJ	8.67	28.01	50	35	45
	A4AJ	12	38	70	50	60
380V (3Ø) 50HZ	78AJ	10.7	34.1	60	45	60
	A8AJ	14.5	45.5	80	60	70

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120 VAC	01-699	16-18 AWG	RED/BLK
0VAC	W	16-18 AWG	WHT/BLK
24VDC	700-799	16-18 AWG	PURPLE
0VDC	701	16-18 AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16 AWG	YELLOW

TABLE 2 - CONTROL CIRCUIT PROTECTION					
FUSE TYPE		208 VOLT	230 VOLT	460 VOLT	575 VOLT
FU1,2A	FNQR	6A	5A	5A	4A
FU1,2B					
FU3AB	FNM	7A	7A	7A	7A

NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE MOTOR DATA TABLE.
- ALL WIRES MUST BE LABELED ON BOTH ENDS
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
- △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.
FIELD WIRING NOTES ON PAGE W-7.

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.


OPTIONAL:		
		
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12
PANEL TYPE		
SCROLL QUAD MEDICAL HMI, NFPA		
DWG. TYPE		
WIRING		
DWG. NO.		
PXMI-A416 W		
SHEET		SIZE
D-1		B

TABLE 1	P/N	MOTOR FULL LOAD AMPS	TOTAL FULL LOAD AMPS	NON-TIME DELAY FUSE	TIME DELAY FUSE
208V (3Ø)	02AJ	4.1	18.4	30	25
	12AJ	4.5	20	30	25
	22AJ	6	26	40	35
	32AJ	8.5	36	60	45
	52AJ	14	58	90	70
	72AJ	20.5	84	125	100
	A2AJ *	27.4	111.6	175	150
F2AJ *	41.1	166.4	250	200	
230V (3Ø)	03AJ	3.6	16.4	25	20
	13AJ	4.4	19.6	30	25
	23AJ	5.8	25.2	40	30
	33AJ	7.7	32.8	50	40
	53AJ	12.7	52.8	80	70
	73AJ	18.5	76	125	90
	A3AJ	24.8	101.2	175	125
F3AJ *	37.2	150.8	250	200	
460V (3Ø)	04AJ	1.8	9.2	15	15
	14AJ	2.2	10.8	20	15
	24AJ	2.9	13.6	20	20
	34AJ	3.9	17.6	30	25
	54AJ	6.3	27.2	40	35
	74AJ	9.3	39.2	60	50
	A4AJ	12.4	51.6	80	70
F4AJ	18.6	76.4	125	100	
380V (3Ø) 50HZ	08AJ				
	18AJ				
	28AJ	3.4	15.6	25	20
	38AJ	4.6	20.4	30	25
	58AJ	7.7	32.8	50	40
	78AJ	11.1	46.4	70	60
	A8AJ	14.9	61.6	100	80
F8AJ	22.1	90.4	150	125	
575V (3Ø)	07AJ	1.1	6.4	10	10
	17AJ				
	27AJ	2.3	11.2	20	15
	37AJ	3.1	14.4	25	20
	57AJ	5.1	22.4	35	30
	77AJ	6.9	29.6	45	35
	A7AJ	9.9	41.6	70	50
F7AJ	14.9	61.6	100	80	

NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE MOTOR DATA TABLE.
- ALL WIRES MUST BE LABELED ON BOTH ENDS
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
- △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

FIELD WIRING NOTES ON PAGE W-7.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATINO RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120 VAC	01-699	16-18 AWG	RED/BLK
0VAC	W	16-18 AWG	WHT/BLK
24VDC	700-799	16-18 AWG	PURPLE
0VDC	701	16-18 AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16 AWG	YELLOW

TABLE 2 - CONTROL CIRCUIT PROTECTION					
FUSE TYPE		208 VOLT	230 VOLT	460 VOLT	575 VOLT
FU1,2A	FNOR	6A	5A	5A	4A
FU3AB	FNM	7A	7A	7A	7A

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET
D-1

SIZE
B

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.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD

NOTES:

- RECOMMENDED TIGHTENING TORQUES FOR WIRE TERMINALS:
208-575 VOLT POWER 35 POUND INCHES
120 VOLT POWER AND CONTROL VOLTAGE 15 POUND INCHES
- PANEL GROUND MUST BE CONNECTED TO EARTH GROUND
- INSTALLER TO PROVIDE MAIN DISCONNECTING DEVICE WITH SHORT CIRCUIT PROTECTION FOR THIS ELECTRICAL ASSEMBLY. SEE MOTOR DATA TABLE.
- ALL WIRES MUST BE LABELED ON BOTH ENDS
- TRANSFORMER IS SIZED FOR LOADS SHOWN ON DRAWING ONLY. DO NOT CONNECT ANY OTHER DEVICES
- △ -INDICATES A DRAWING WIRE CONNECTION TO ANOTHER PAGE.

FIELD WIRING NOTES ON PAGE W-7.

TABLE 1						
PANEL DATA 3Ø - 60 Hz 500VA CONTROL CIRCUIT						
(A) LOAD SPECIFICATIONS					(B) BRANCH CIRCUIT PROTECTION - PROVIDED BY INSTALLER	
PANEL PART NUMBER	MOTOR SIZE EACH	(A) POWER (V/PH)	(A) MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)	NON-TIME DELAY FUSE	TIME-DELAY FUSE
PBMIA416A4AJ	10	460V/3PH	11.6	48.4	80A	60A
						INVERSE-TIME CIRCUIT BREAKER
NOTE - ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE						

WIRE TYPE TABLE			
VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120 VAC	01-699	16-18 AWG	RED/BLK
0VAC	W	16-18 AWG	WHT/BLK
24VDC	700-799	16-18 AWG	PURPLE
0VDC	701	16-18 AWG	PURPLE
GND	-	VARIES	GREEN
CUSTOMER SUPPLY	01-99	16 AWG	YELLOW

TABLE 2 - CONTROL CIRCUIT PROTECTION					
FUSE TYPE		208 VOLT	230 VOLT	460 VOLT	575 VOLT
FU1,2A	FNQR	6A	5A	5A	4A
FU1,2B					
FU3AB	FNM	7A	7A	7A	7A

OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET
D-1

SIZE
B

SEQUENCE OF OPERATIONS

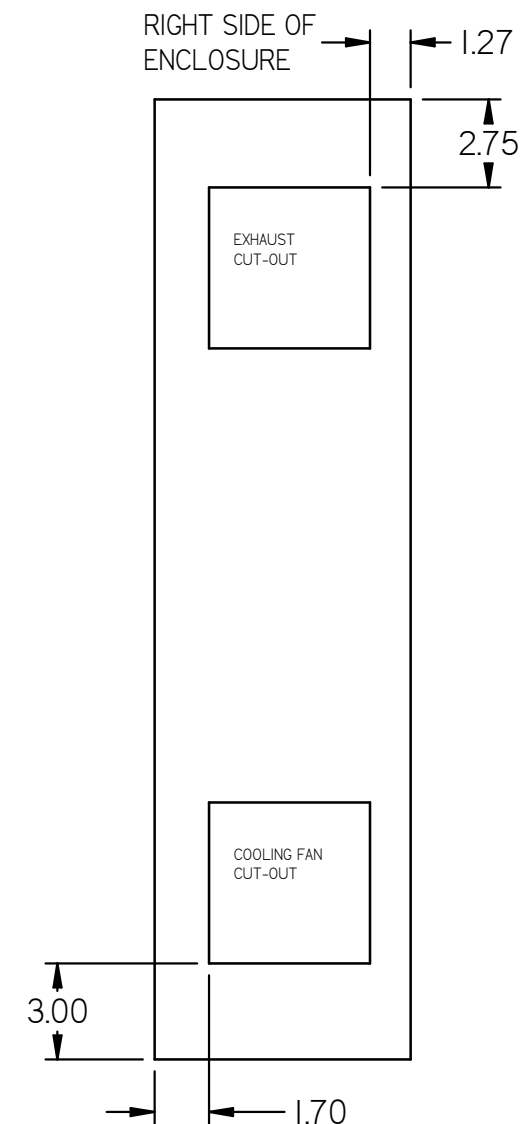
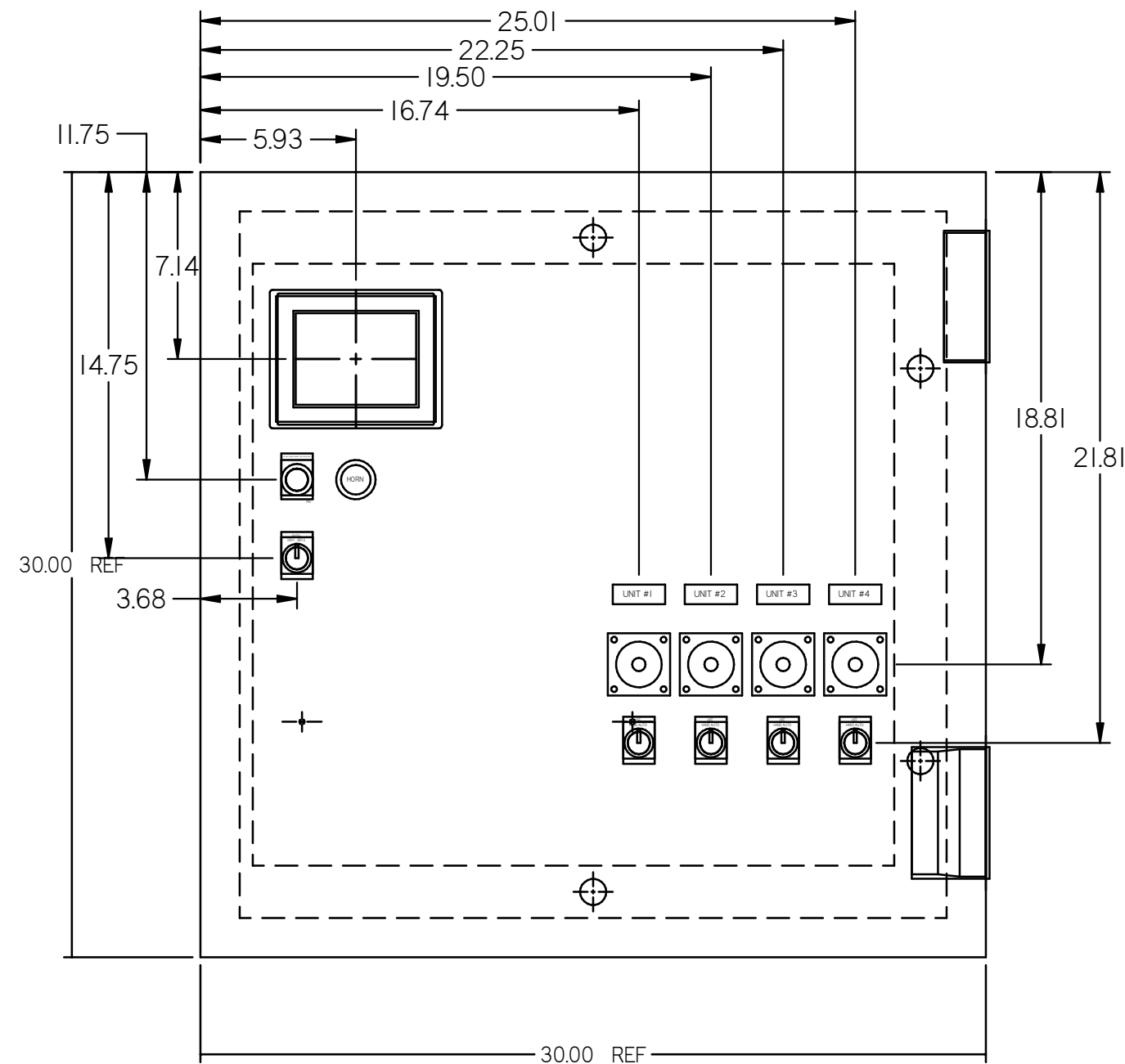
During normal operation the PBMI controller will signal the Lead compressor to run when pressure drops below lead cut-in set-point and stop when the pressure reaches the lead cut-out set-point. Lead alternation to the next pump, will occur with each lead run signal or every 10-minutes (which ever happens 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.

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC-33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR, &	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

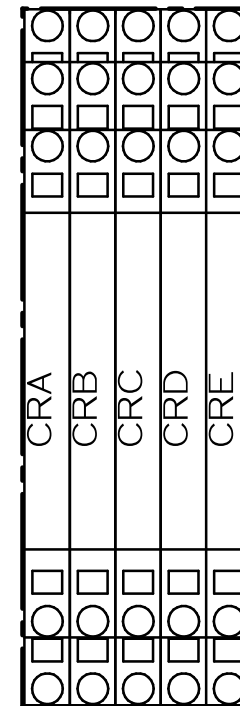
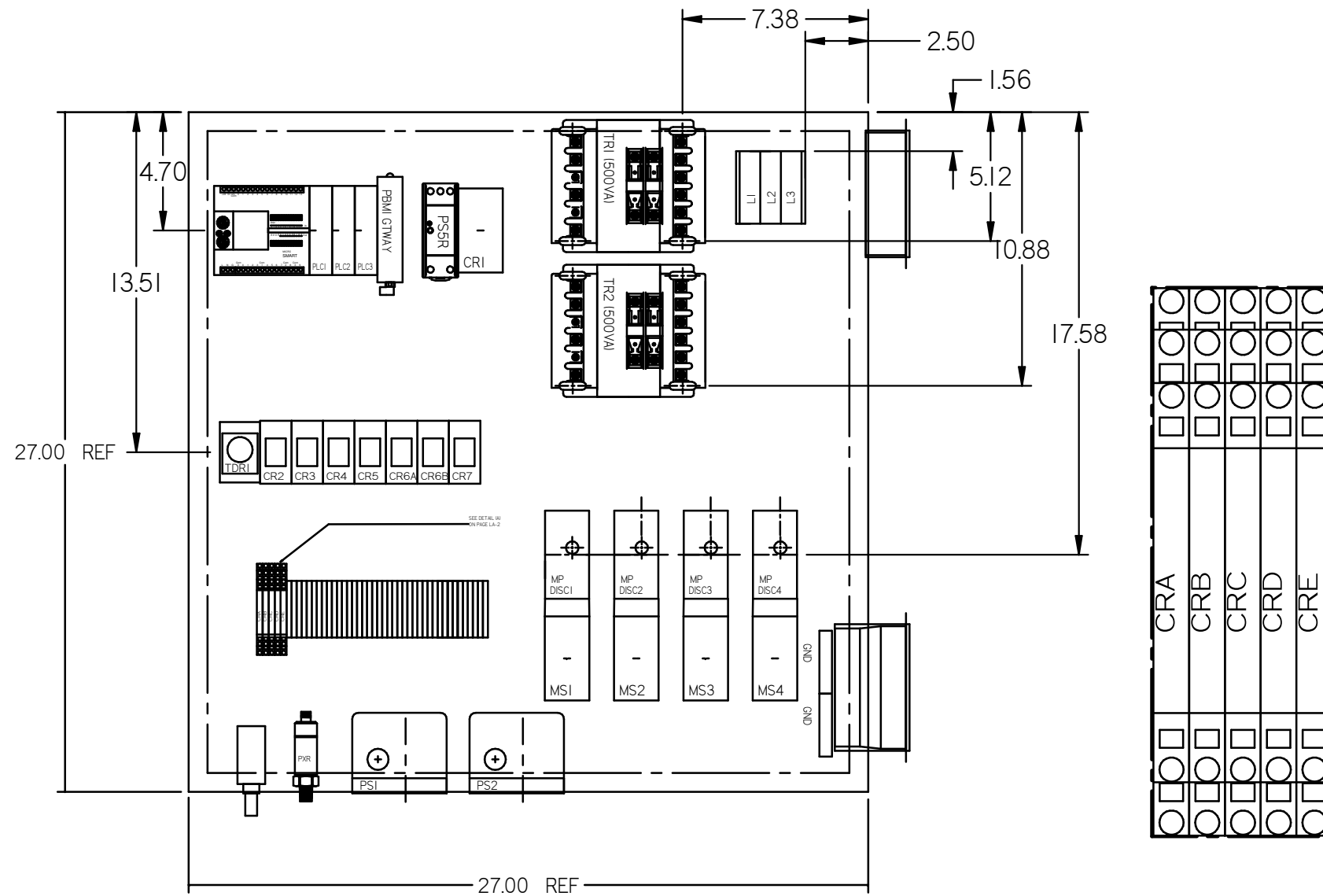
PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET	SIZE
L-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:	SINGLE CYLINDER AND SCROLL PUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

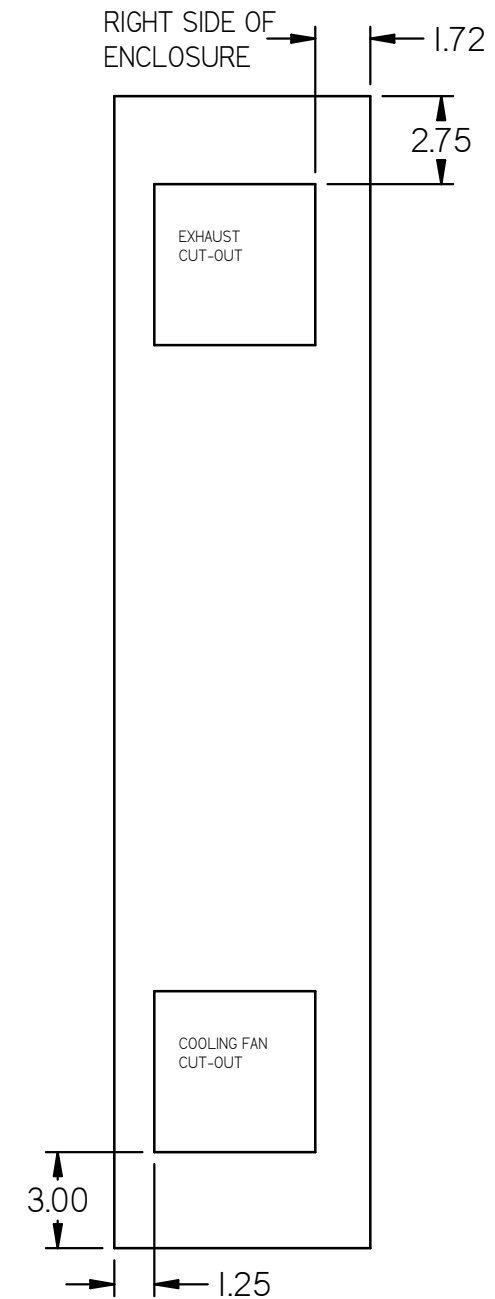
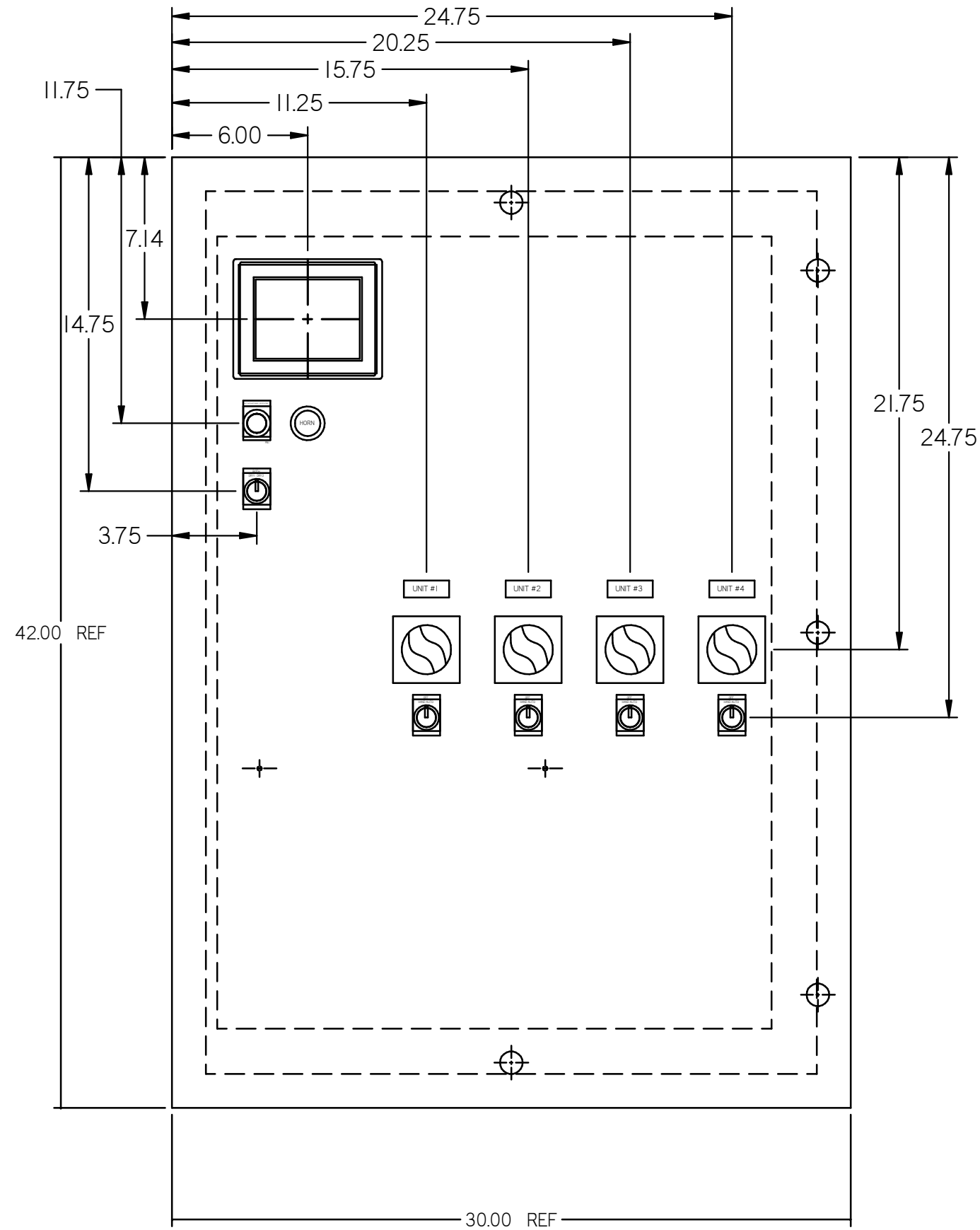
PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-A416 W

SHEET L-2	SIZE B
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REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



OPTIONAL:	SINGLE CYLINDER AND SCROLLPUMPS	<input checked="" type="checkbox"/>
	DOUBLE-CYLINDER PUMPS	<input type="checkbox"/>
BACNET, WEBSVR,	TRIPLE-CYLINDER PUMPS	<input type="checkbox"/>



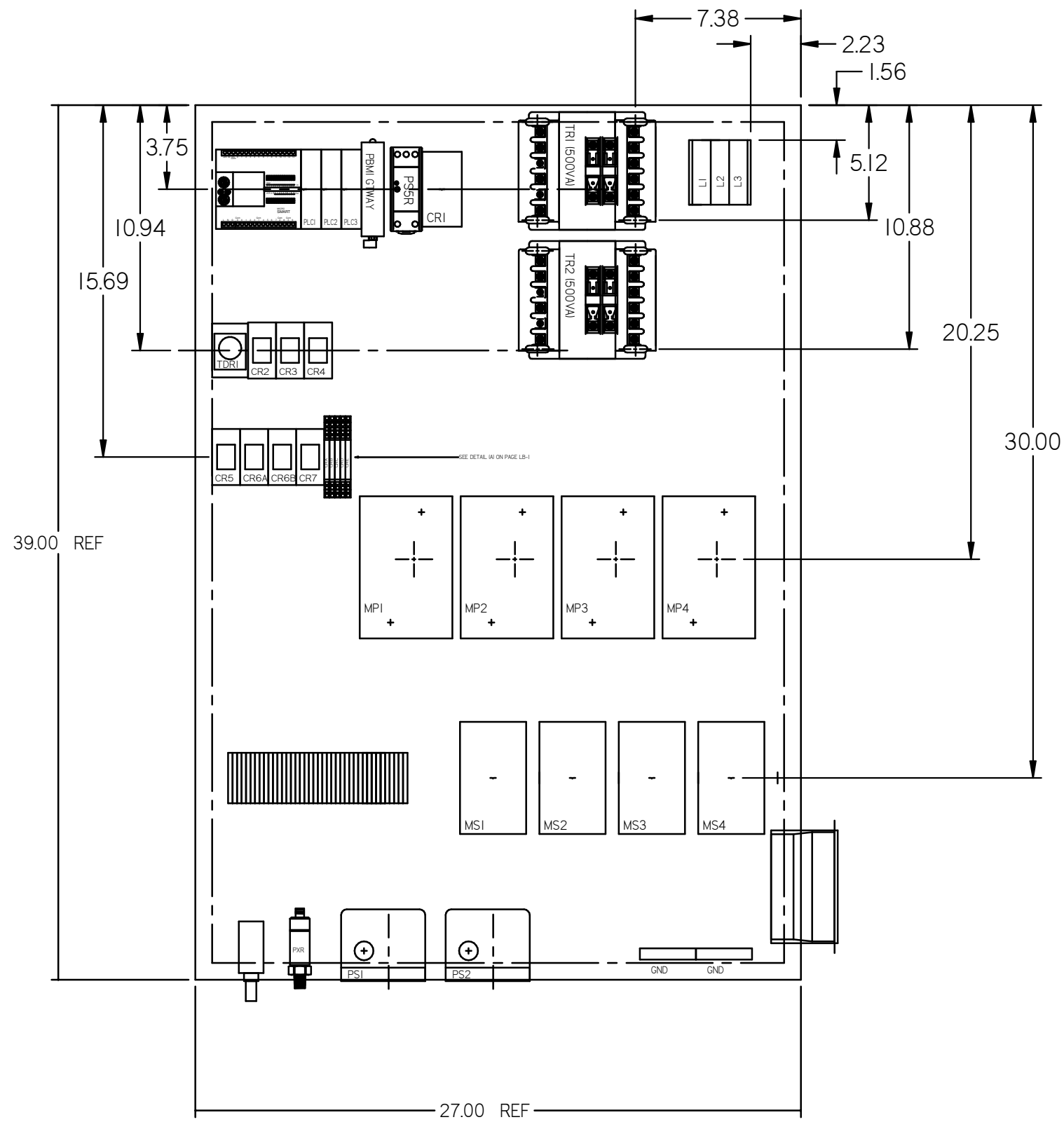
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

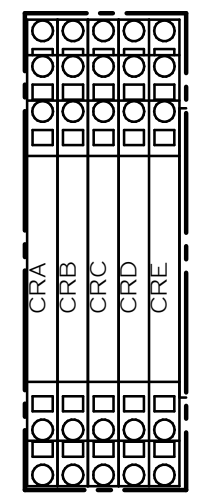
PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE WIRING
DWG. NO. PXMI-A416 W

SHEET L-1
SIZE B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	07/20/11	22722	CHR	DMS
C-1	CHANGE TRANSDUCER AND FAN LOCATION	04/01/13	PXEC_33	BFH	CHR
D-1	ADDED TIME DELAY RELAY TO LP BACKUP SWITCH	04/01/15	PXEC0093	AJL	KMD
E-1	BACNET CARD UPDATE ADD ISOLATING RELAYS	07/20/15	PXEC0110	AJL	KMD
F	ADDED FAN WIRING	8/28/18	PXEC0169	AKH	KMD



- OPTIONAL:
- SINGLE CYLINDER AND SCROLLPUMPS
 - DOUBLE-CYLINDER PUMPS
 - BACNET, WEBSVR, TRIPLE-CYLINDER PUMPS



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CHR	DMS	DMS
07/20/11	06/14/12	06/14/12

PANEL TYPE
SCROLL QUAD MEDICAL
HMI, NFPA

DWG. TYPE WIRING
DWG. NO. PXMI-A416 W

SHEET L-2 SIZE B