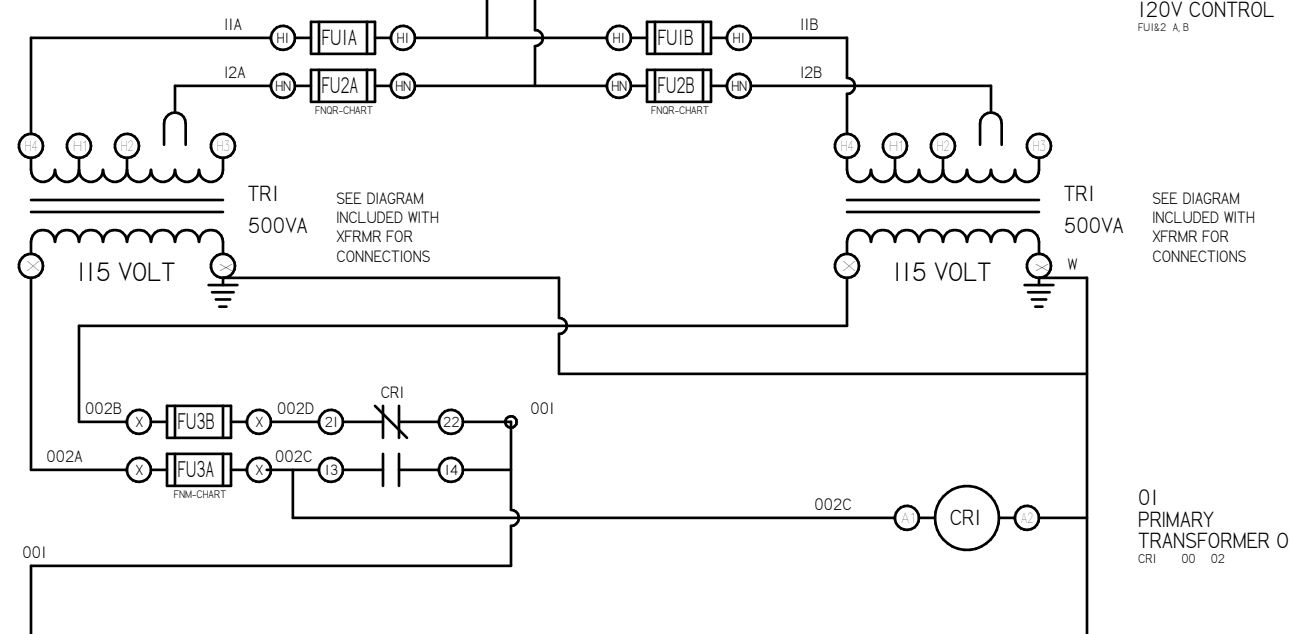


A
POWER
UNIT #1A
MPIA 10 78

B
POWER
UNIT #1B
MPIB 10 78

D
POWER
UNIT #2A
MP2A 11 79

E
POWER
UNIT #2B
MP2B 11 79



I
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	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0169	AKH	KMD

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



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

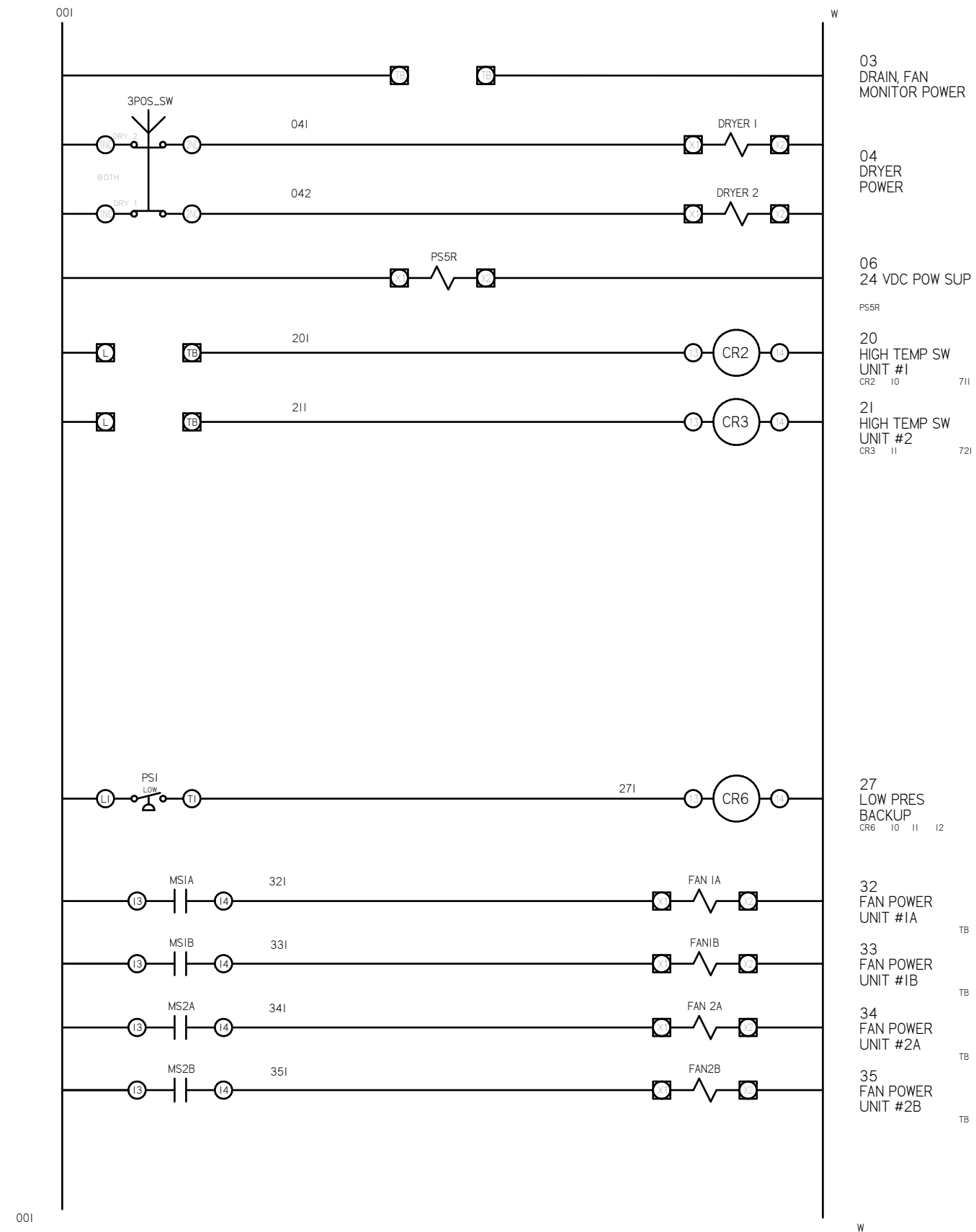
PANEL TYPE
DUPLEX LAB 10HP SCROLL
HMI, NFPA

DWG. TYPE
WIRING

DWG. NO.
PXMI-LS216A W

SHEET W-1	SIZE B
--------------	-----------

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0169	AKH	KMD



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



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

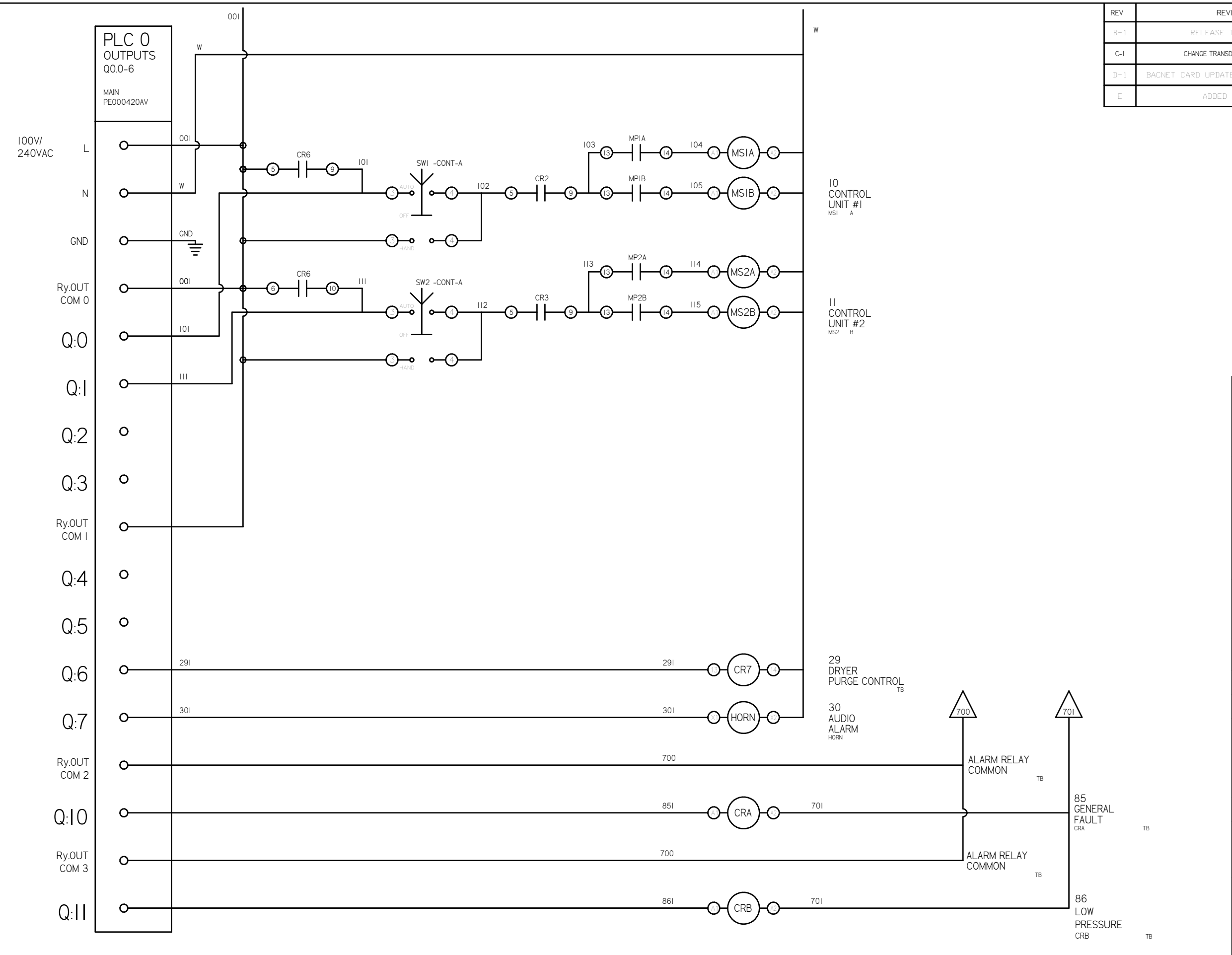
PANEL TYPE
 DUPLEX LAB 10HP SCROLL
 HMI, NFPA

DWG. TYPE
 WIRING

DWG. NO.
 PXMI-LS216A W

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

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0165	AKH	KMD



OPTIONAL:

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

BACNET, WEBSRV,



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

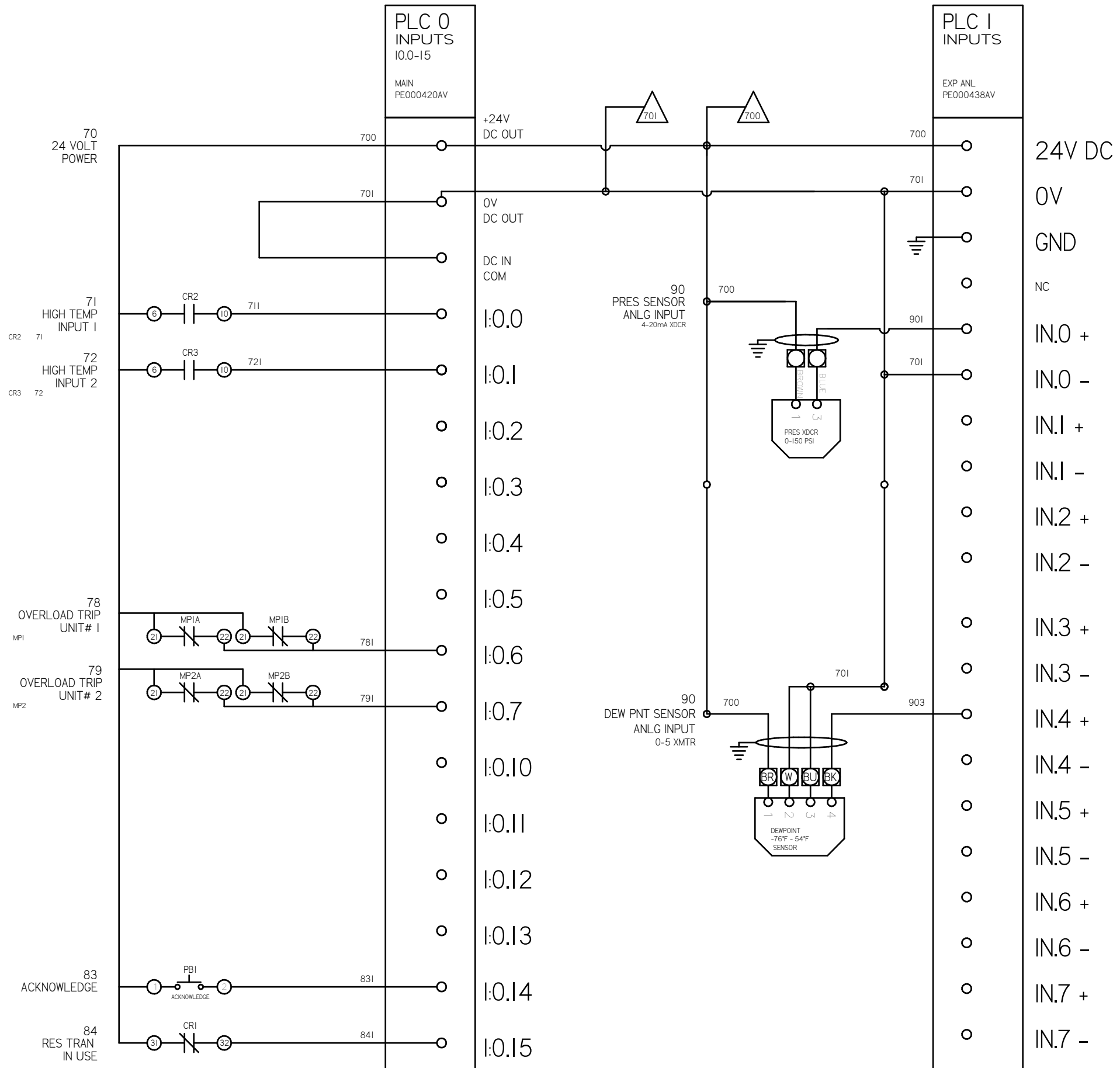
PANEL TYPE
 DUPLEX LAB 10HP SCROLL
 HMI, NFPA

DWG. TYPE
 WIRING

DWG. NO.
 PXMI-LS216A W

SHEET	SIZE
W-3	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0165	AKH	KMD



OPTIONAL:

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



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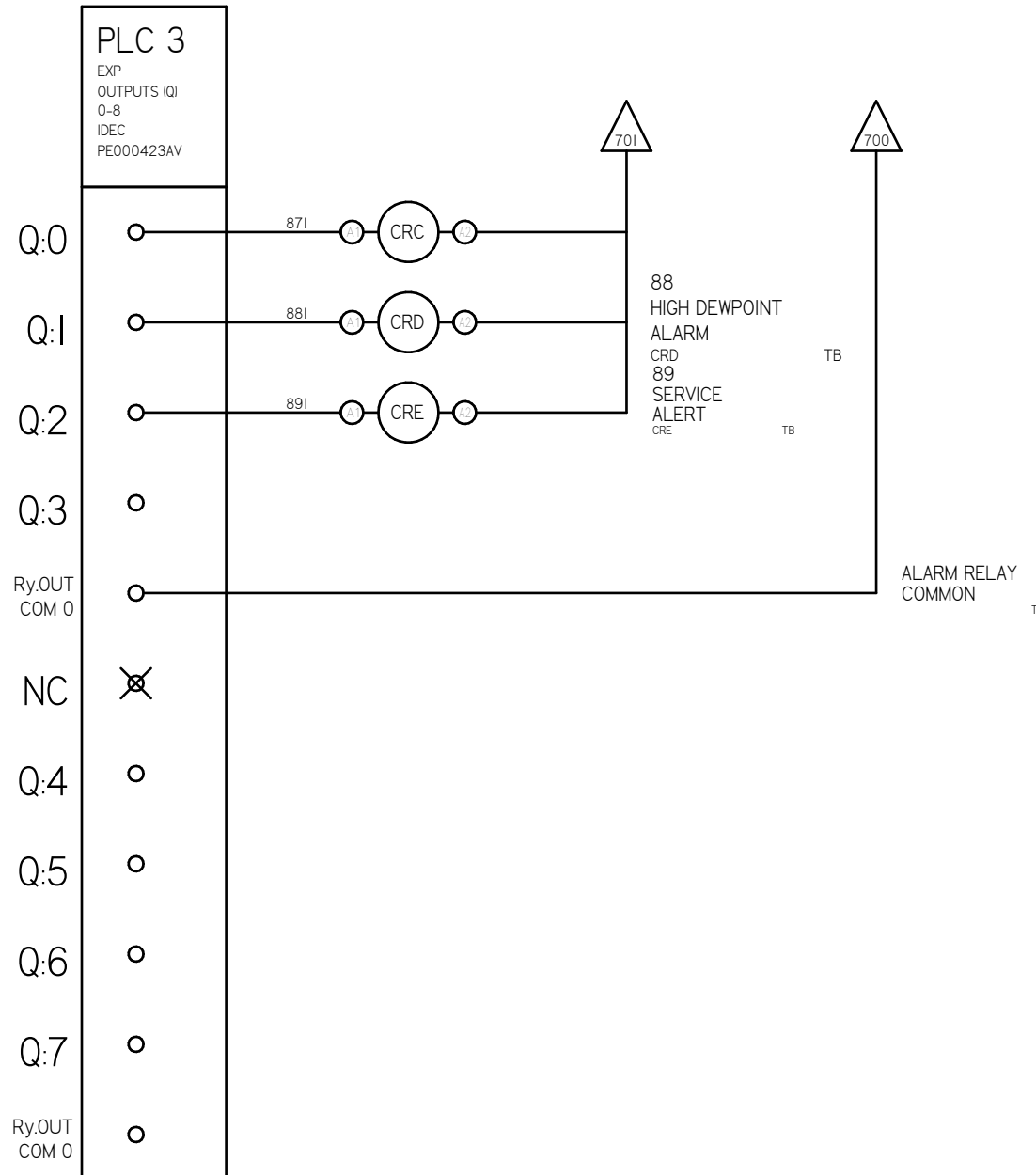
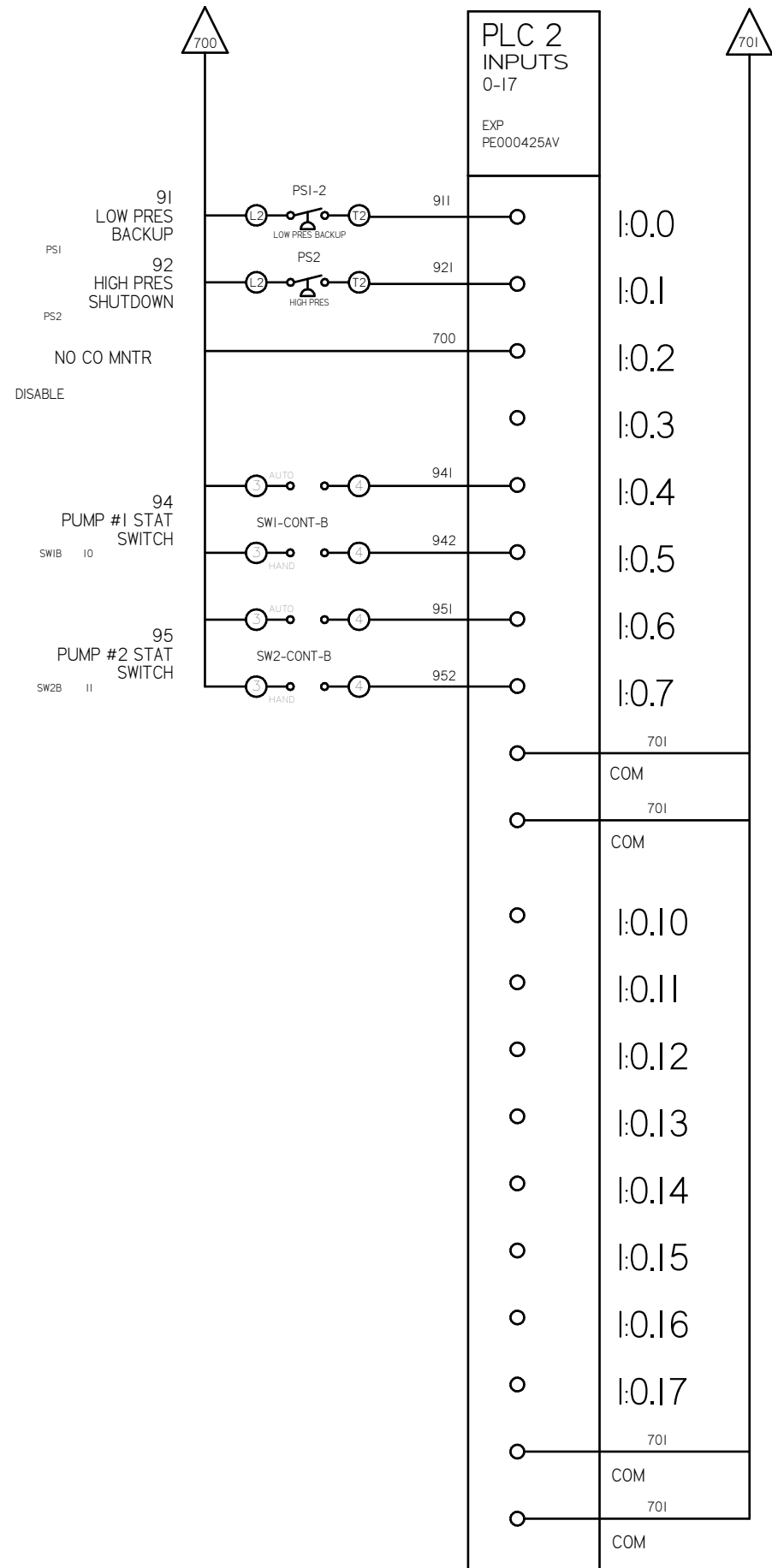
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

PANEL TYPE
 DUPLEX LAB 10HP SCROLL
 HMI, NFPA

DWG. TYPE WIRING
 DWG. NO. PXMI-LS216A W

SHEET W-4
 SIZE B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC-33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0118	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0169	AKH	KMD



OPTIONAL:

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

BACNET, WEBSRVR



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

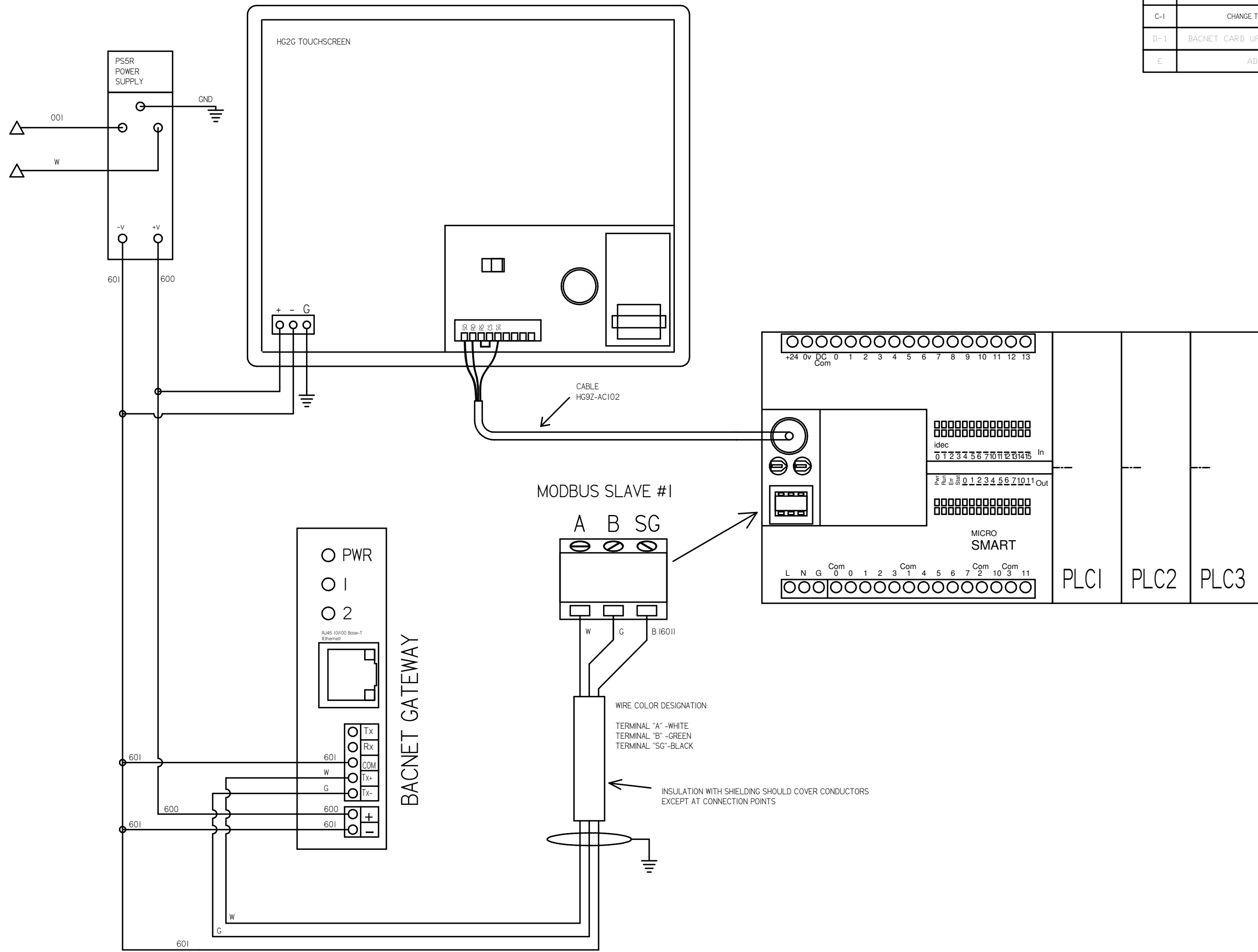
PANEL TYPE
DUPLEX LAB 10HP SCROLL
HMI, NFPA

DWG. TYPE: WIRING

DWG. NO.: PXMI-LS216A W

SHEET	SIZE
W-5	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0165	AKH	KMD



OPTIONAL:

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

BACNET, WEBSVR,



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

PANEL TYPE
 DUPLEX LAB 10HP SCROLL
 HMI, NFPA

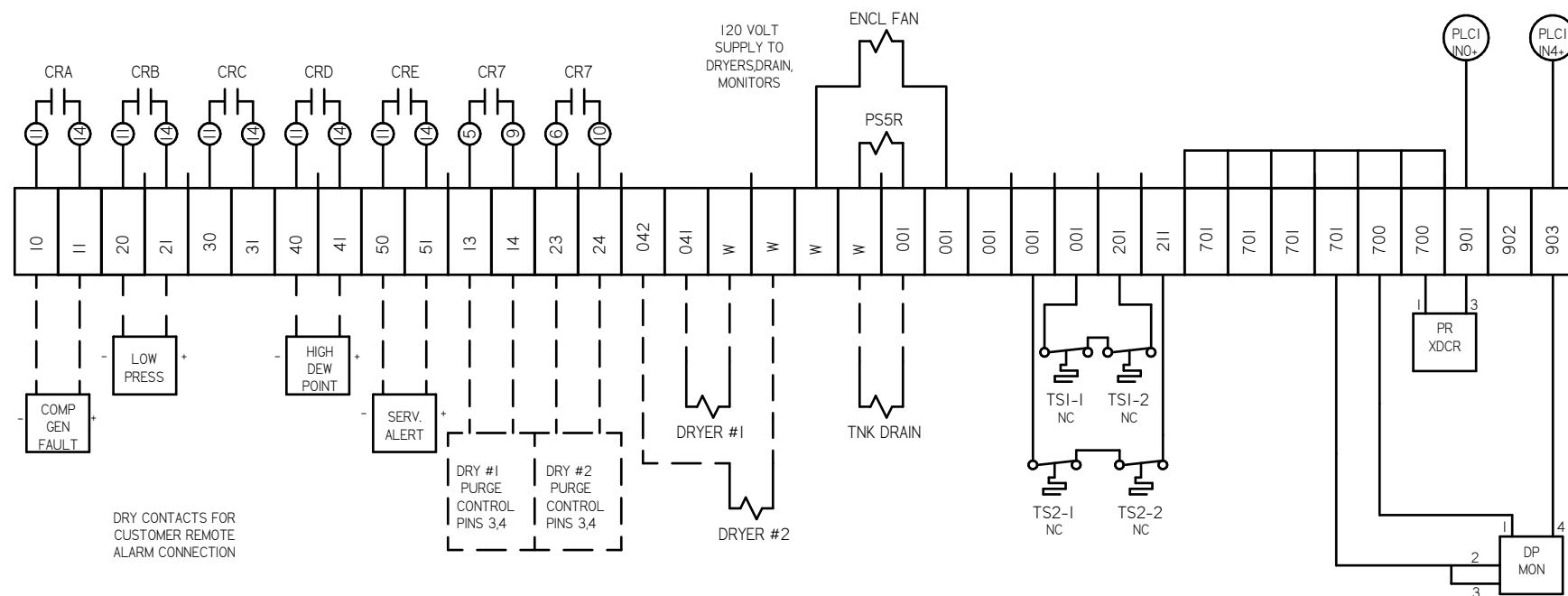
DWG. TYPE
 WIRING

DWG. NO.
 PXMI-LS216A W

SHEET	SIZE
W-6	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0165	AKH	KMD

TERMINAL BLOCKS



DRY CONTACTS FOR CUSTOMER REMOTE ALARM CONNECTION

ASSEMBLY NOTE:

USE SHIELDED CABLE BETWEEN TERMINAL BLOCKS AND PLC. CONNECT GROUND LOOPS TO GROUND BLOCK. CABLE IS NOT TO BE ROUTED IN PROXIMITY (2") OR ROUTED IN WIRE TRAY OF ANY 3-PHASE POWER CONDUCTORS.

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



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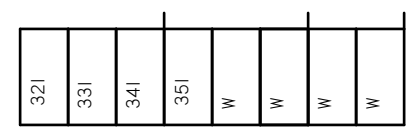
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

PANEL TYPE
DUPLX LAB 10HP SCROLL
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-LS216A W

SHEET W-7 SIZE B



FAN WIRING
SEE RUNGS 32-35 FOR DETAILS

- 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

TABLE 1

PANEL DATA 3Ø - 60 Hz 500VA CONTROL CIRCUIT					(B) BRANCH CIRCUIT PROTECTION - PROVIDED BY INSTALLER		
(A) LOAD SPECIFICATIONS					NON-TIME DELAY FUSE	TIME-DELAY FUSE	INVERSE-TIME CIRCUIT BREAKER
PANEL PART NUMBER	MOTOR SIZE EACH (HP)	(A) POWER (V/PH)	(A) MOTOR LOAD EACH (FLA)	PANEL LOAD TOTAL (FLA)			
PBMILS216A2AJ	5(X2)	208V/3Ø	14.2	59	90A	70A	90A
PBMILS216A3AJ	5(X2)	230V/3Ø	12.8	54	80A	70A	80A
PBMILS216A4AJ	5(X2)	460V/3Ø	6.4	28	45A	35A	40A

NOTE- ADJUST OVERCURRENT PROTECTION DEVICE NOT TO EXCEED 115% OF MOTOR NAMEPLATE FLA VALUE

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 TABLE 1 FOR REQUIREMENTS.
- 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	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC-33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0165	AKH	KMD

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.

VOLTAGE	WIRE NUMBERS	GAUGE	COLOR
120 VAC	001-699	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

FUSE TYPE	208 VOLT	230 VOLT	460 VOLT	575 VOLT
FU1,2A	FNQR	6A	5A	4A
FU1,2B				
FU3AB	FNM	7A	7A	7A

OPTIONAL:
BACNET, WEBSRVR.



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

PANEL TYPE
DUPLEX LAB 10HP SCROLL
HMI, NFPA

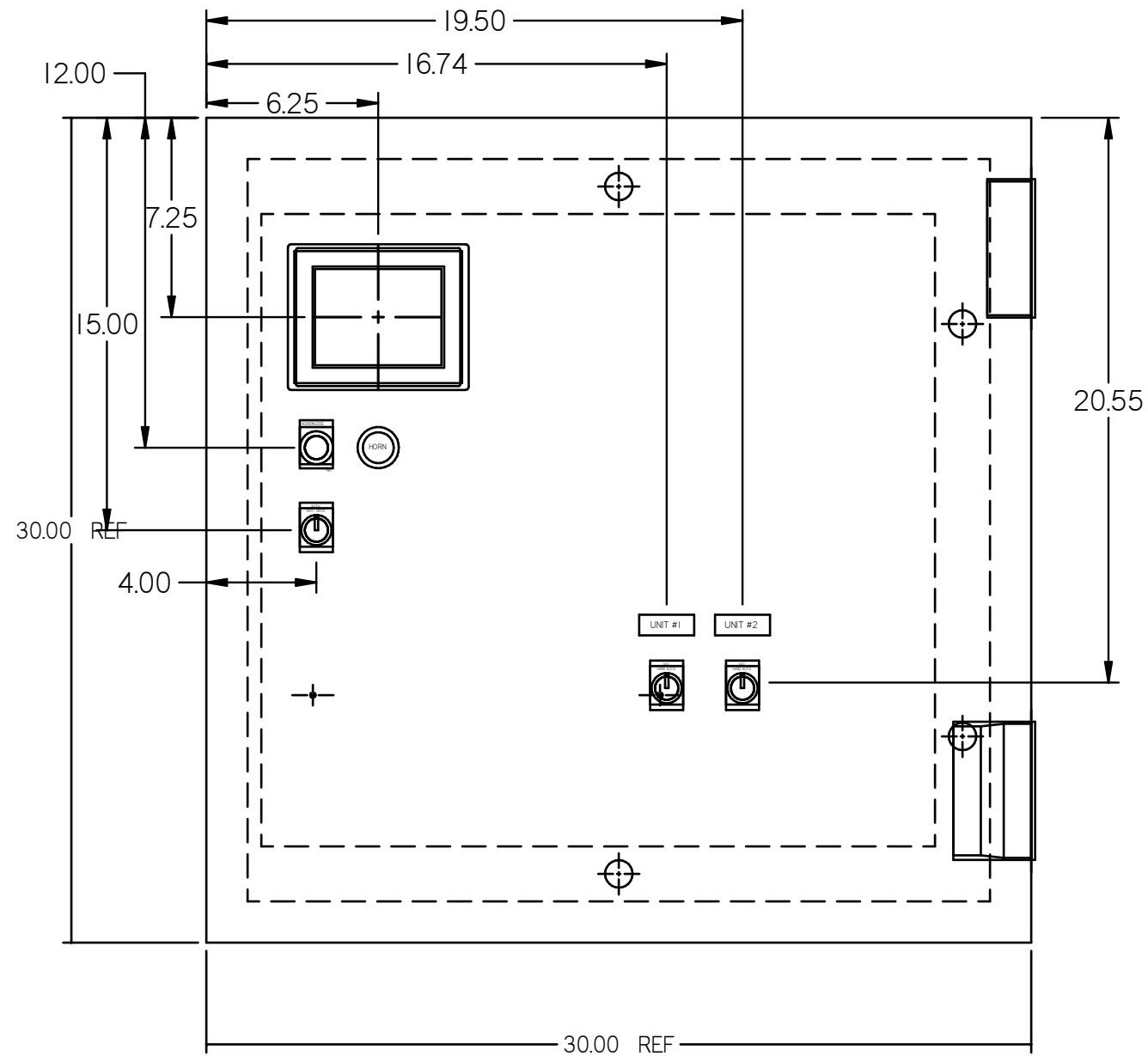
DWG. TYPE DATA

DWG. NO. PXMI-LS216A W

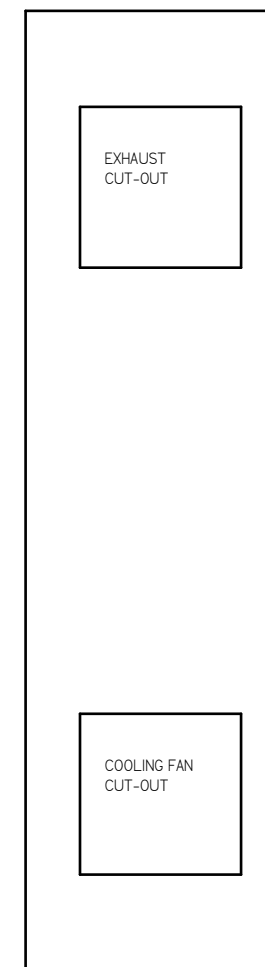
SHEET D-1 SIZE B

PXMI-LS216A B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC-33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	A.JL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0169	AKH	KMD



RIGHT SIDE OF ENCLOSURE



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



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

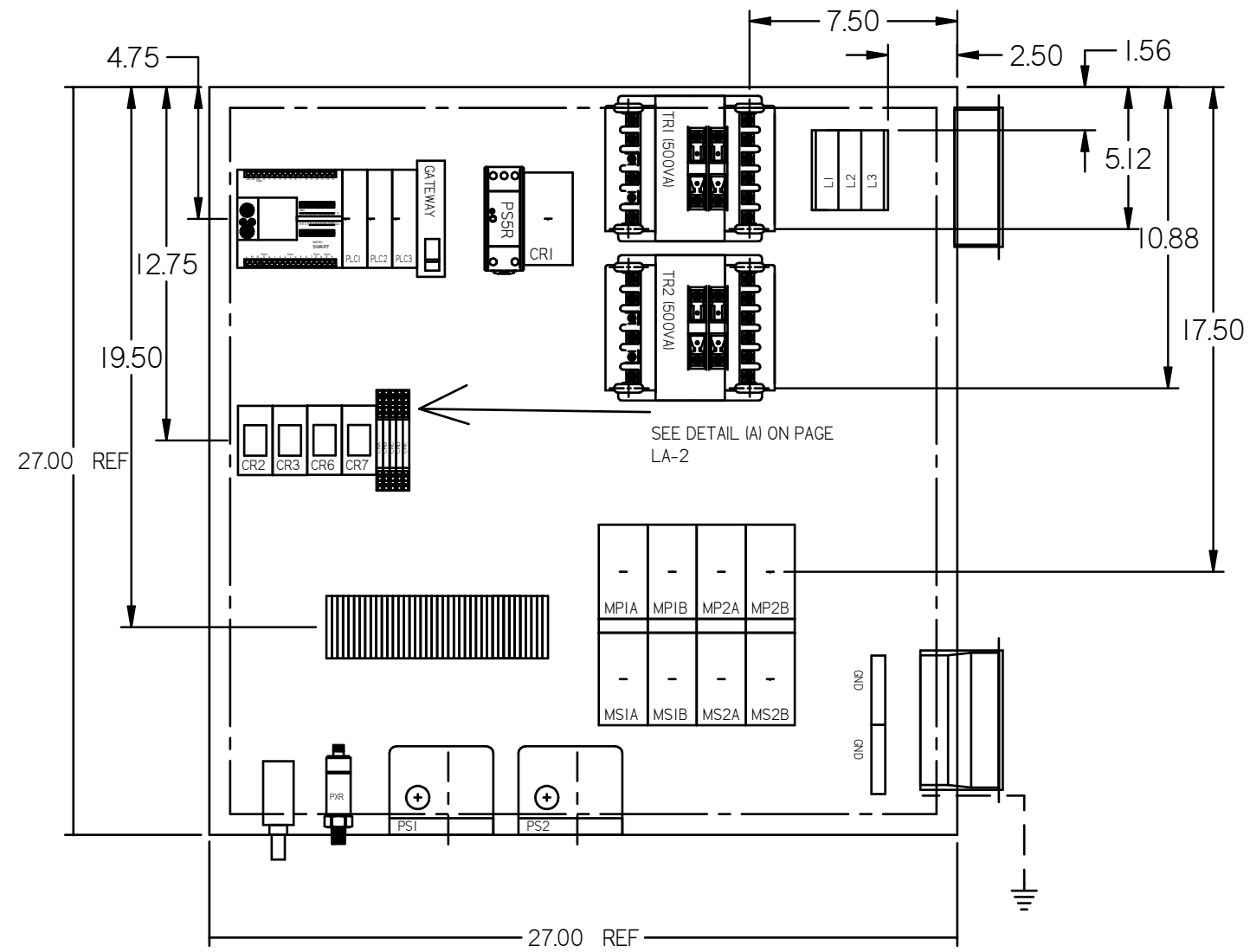
PANEL TYPE
 DUPLEX LAB 10HP SCROLL
 HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO.
 PXMI-LS216A W

SHEET	SIZE
L-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/16/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER & FAN LOCATION	02/01/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	10/29/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/4/18	PXEC0169	AKH	KMD



DETAIL (A)



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



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/16/12	05/11/12	05/11/12

PANEL TYPE
 DUPLEX LAB 10HP SCROLL
 HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO.
 PXMI-LS216A W

SHEET	SIZE
L-1	B