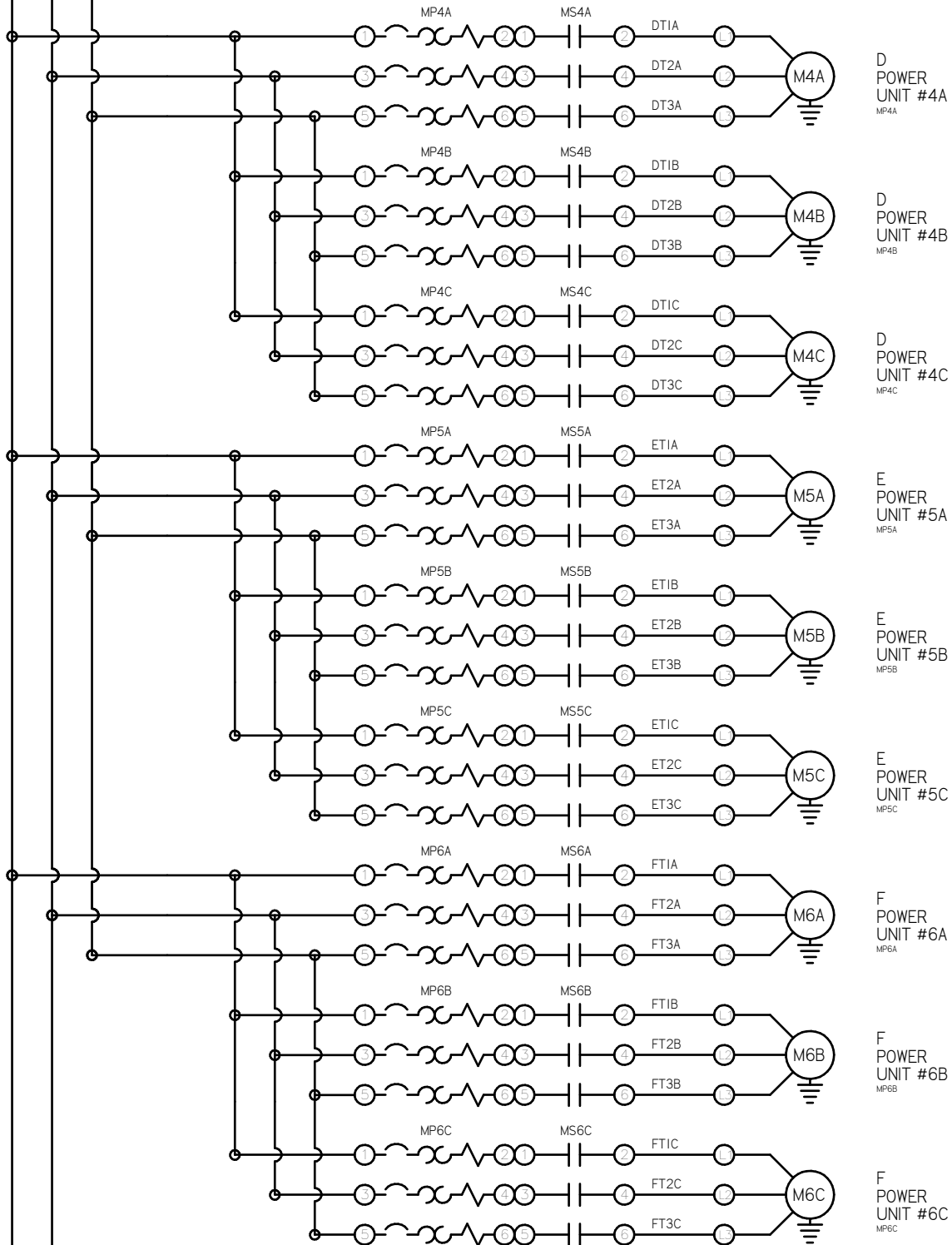
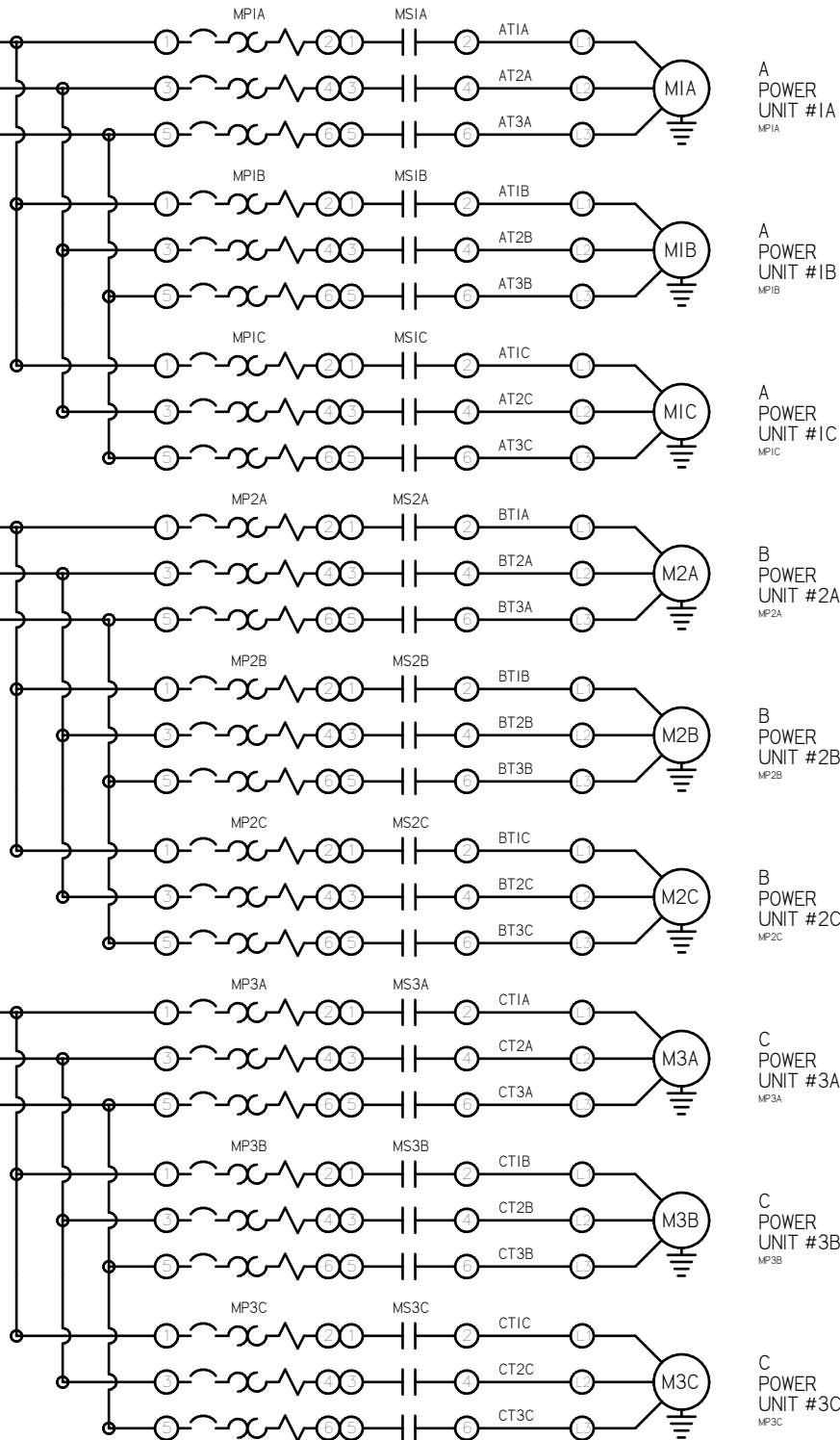
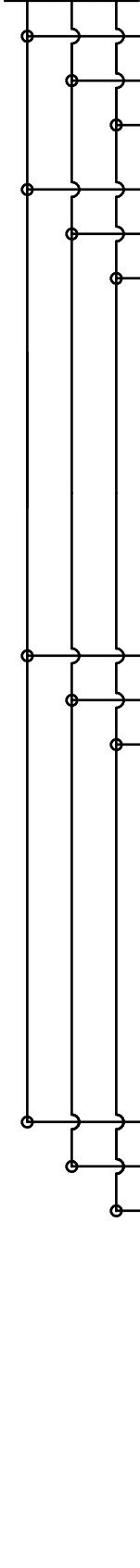
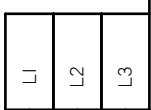


SEE TABLE I



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD

SEE TABLE I FOR BRANCH CIRCUIT PROTECTION

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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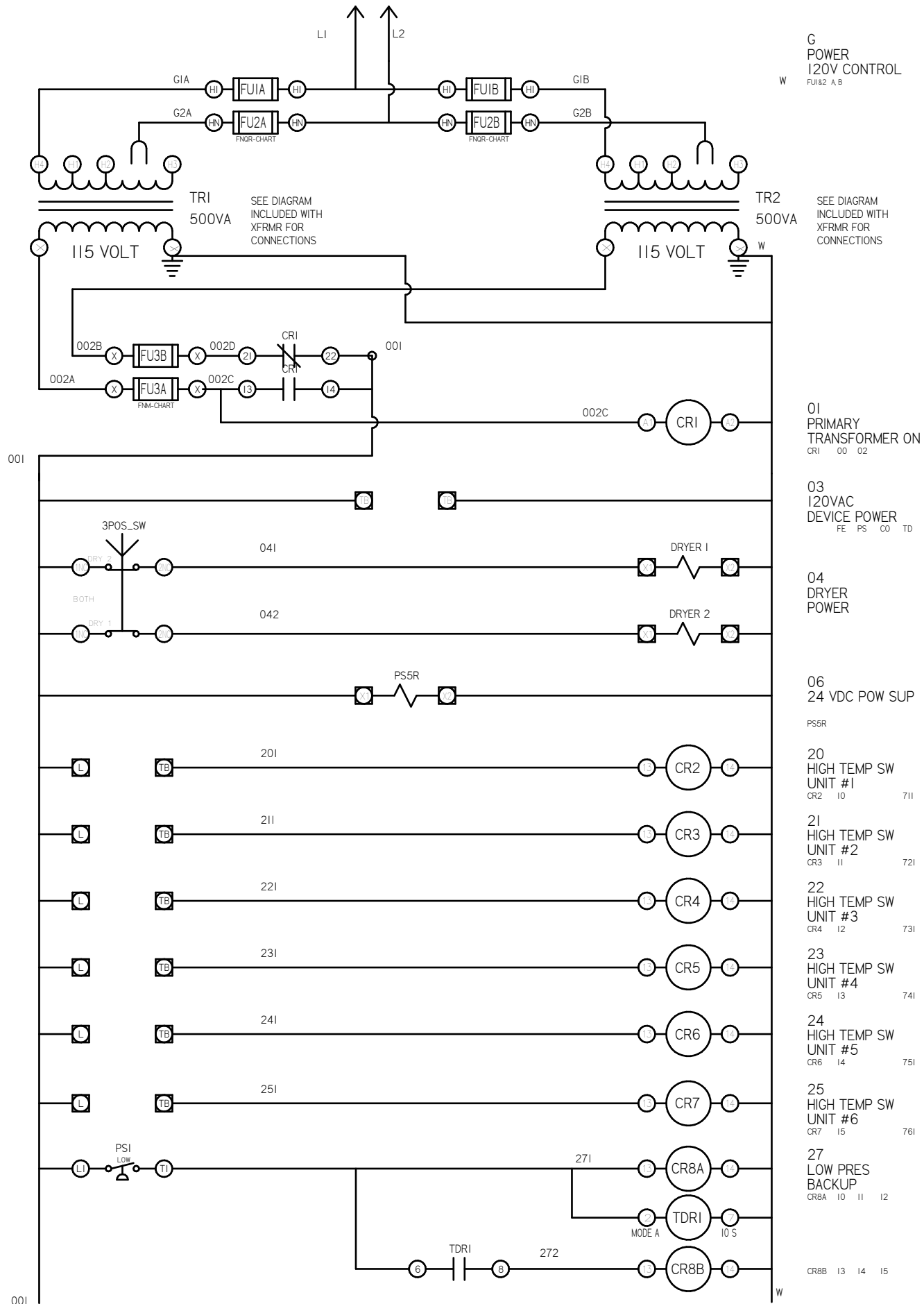
DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE: WIRING  
DWG. NO.: PXMI-S616F W

SHEET: W-1  
SIZE: B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	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
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

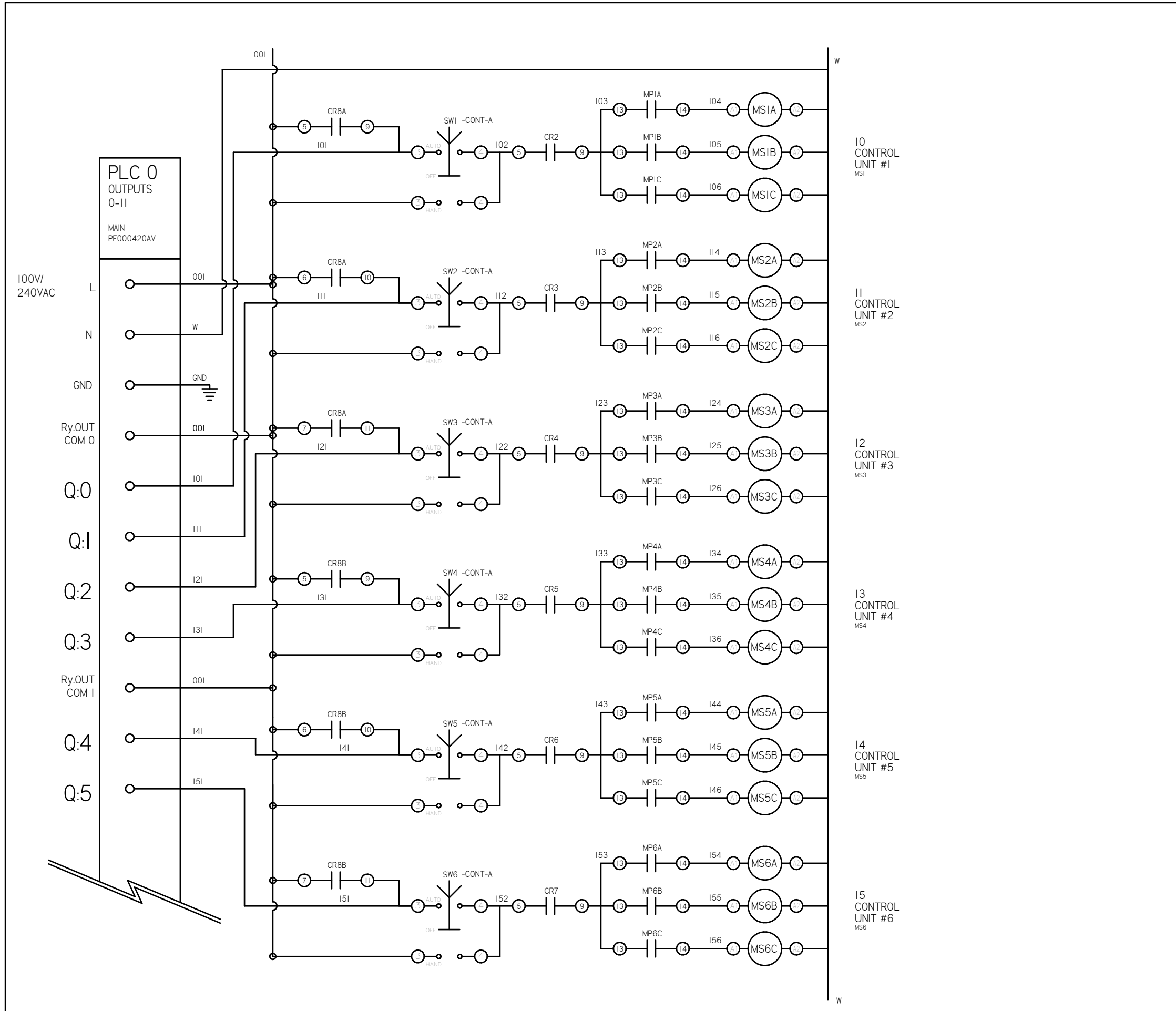
DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616F W

SHEET  
W-2

SIZE  
B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	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
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

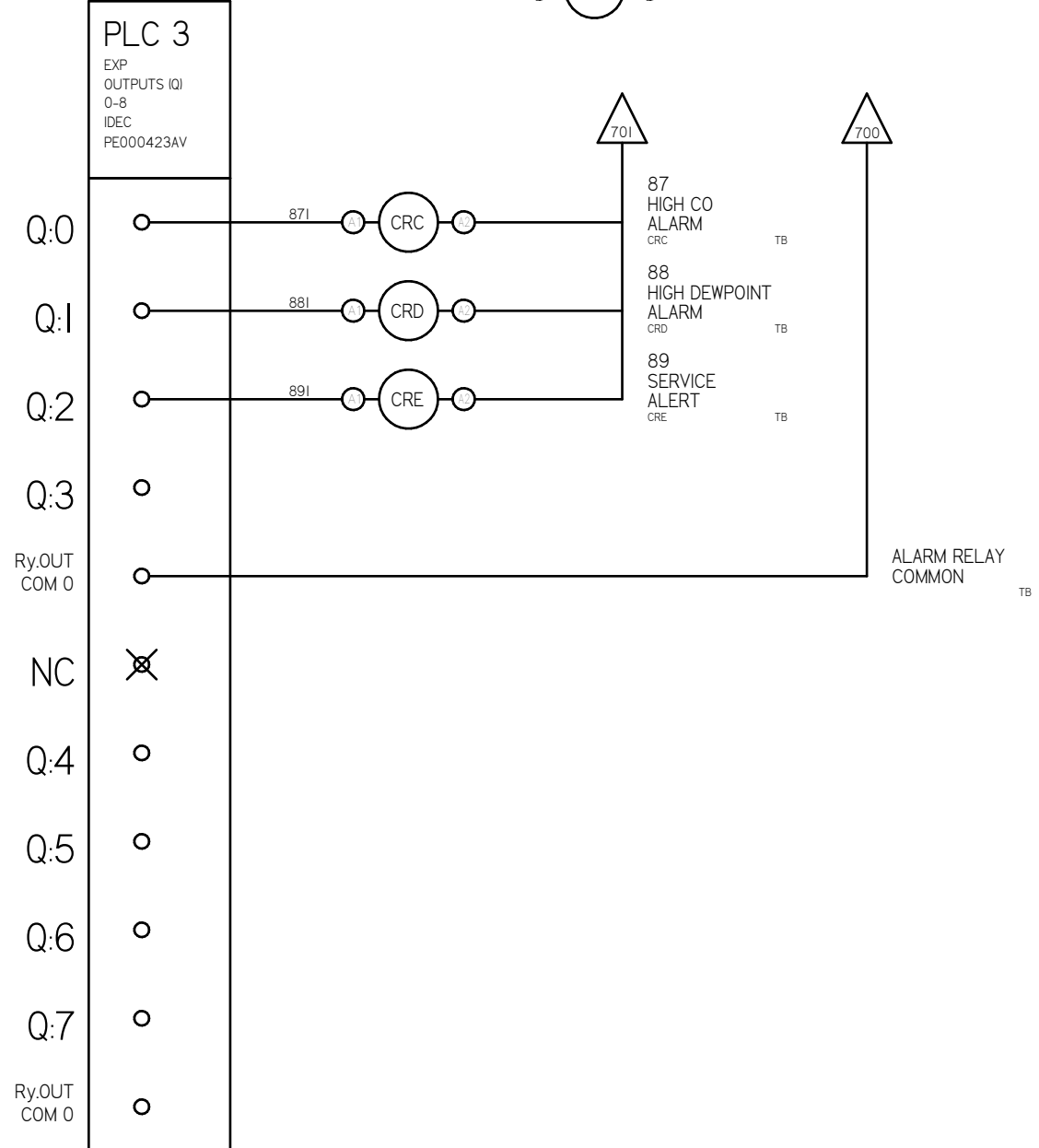
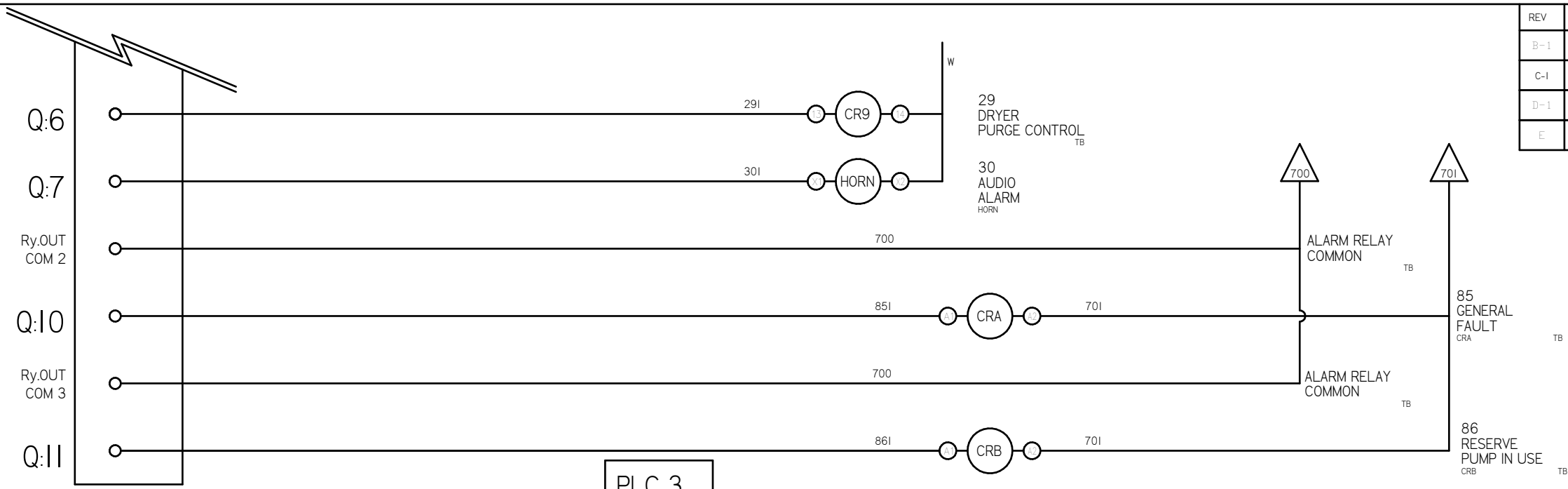
PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

DWG. NO. PXMI-S616F W

SHEET	SIZE
W-3	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0165	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
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE WIRING

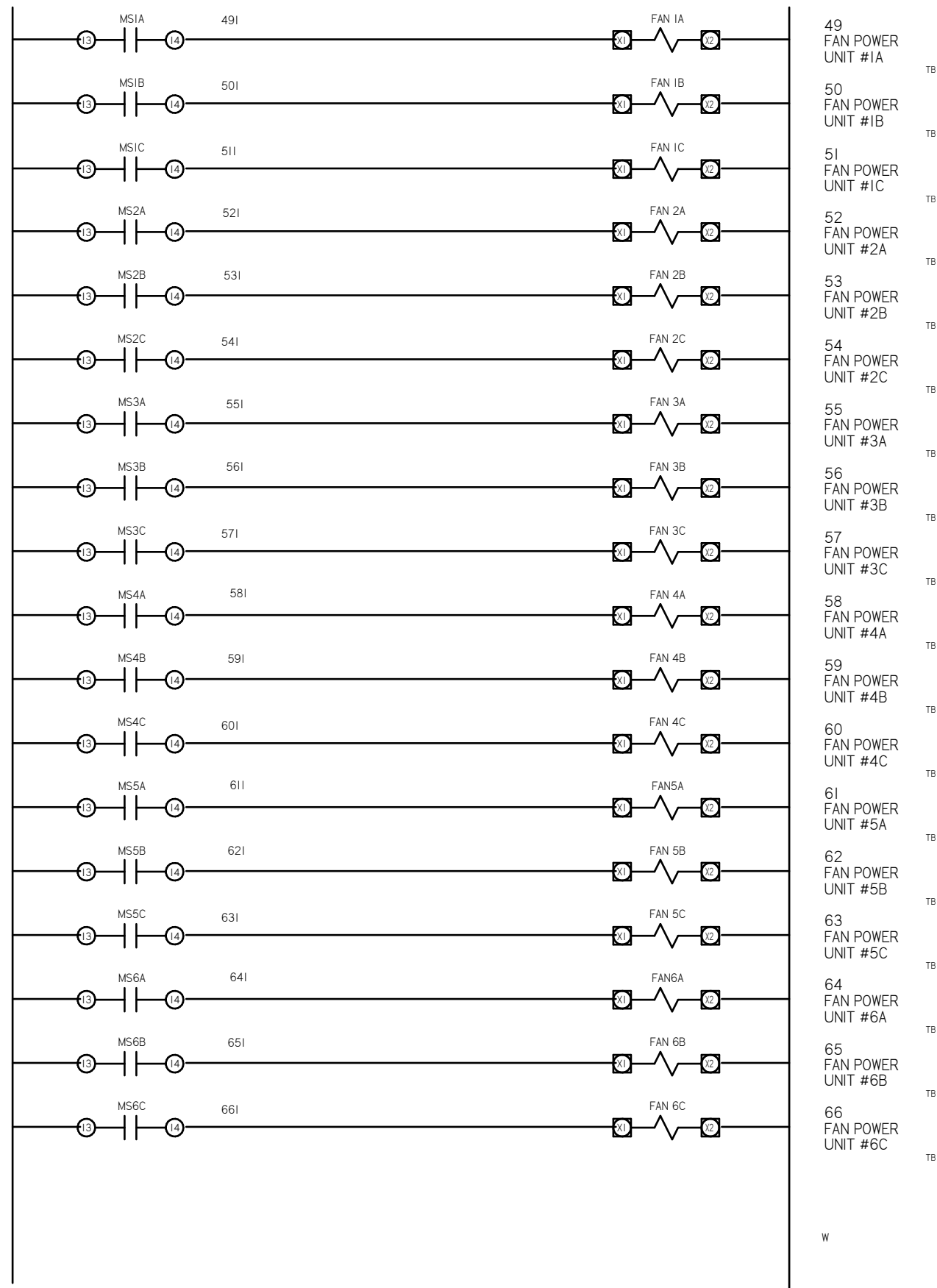
DWG. NO. PXMI-S616F W

SHEET W-4	SIZE B
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REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD

001


W



001

W

OPTIONAL:



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

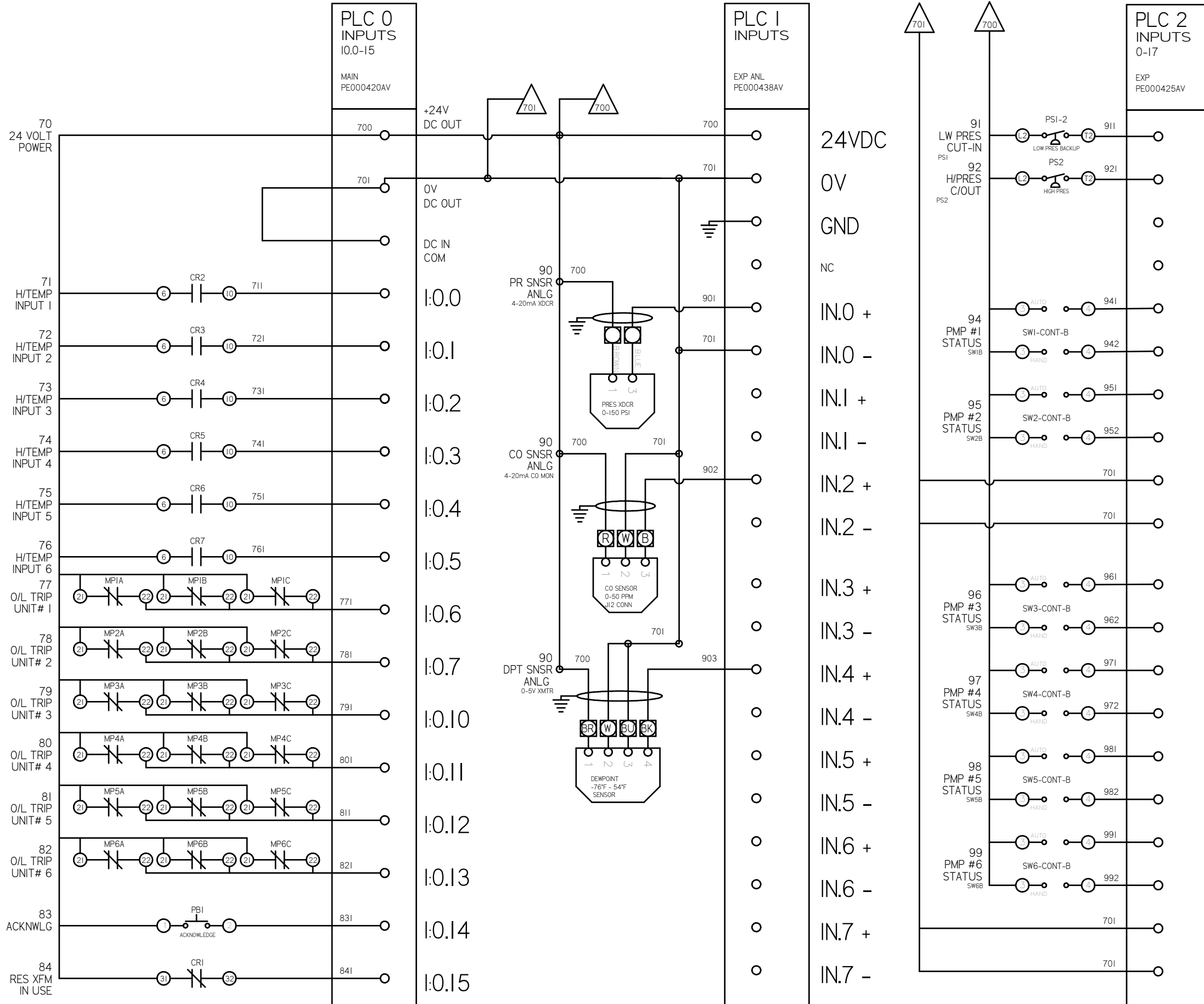
DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616F W

SHEET	SIZE
W-5	B

PXMI-S616F B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0118	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0169	AKH	KMD



- I:0.0
- I:0.1
- I:0.2
- I:0.3
- I:0.4
- I:0.5
- I:0.6
- I:0.7
- COM
- COM
- I:0.10
- I:0.11
- I:0.12
- I:0.13
- I:0.14
- I:0.15
- I:0.16
- I:0.17
- COM
- COM

OPTIONAL:

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

BACNET, WEBSRVR.



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

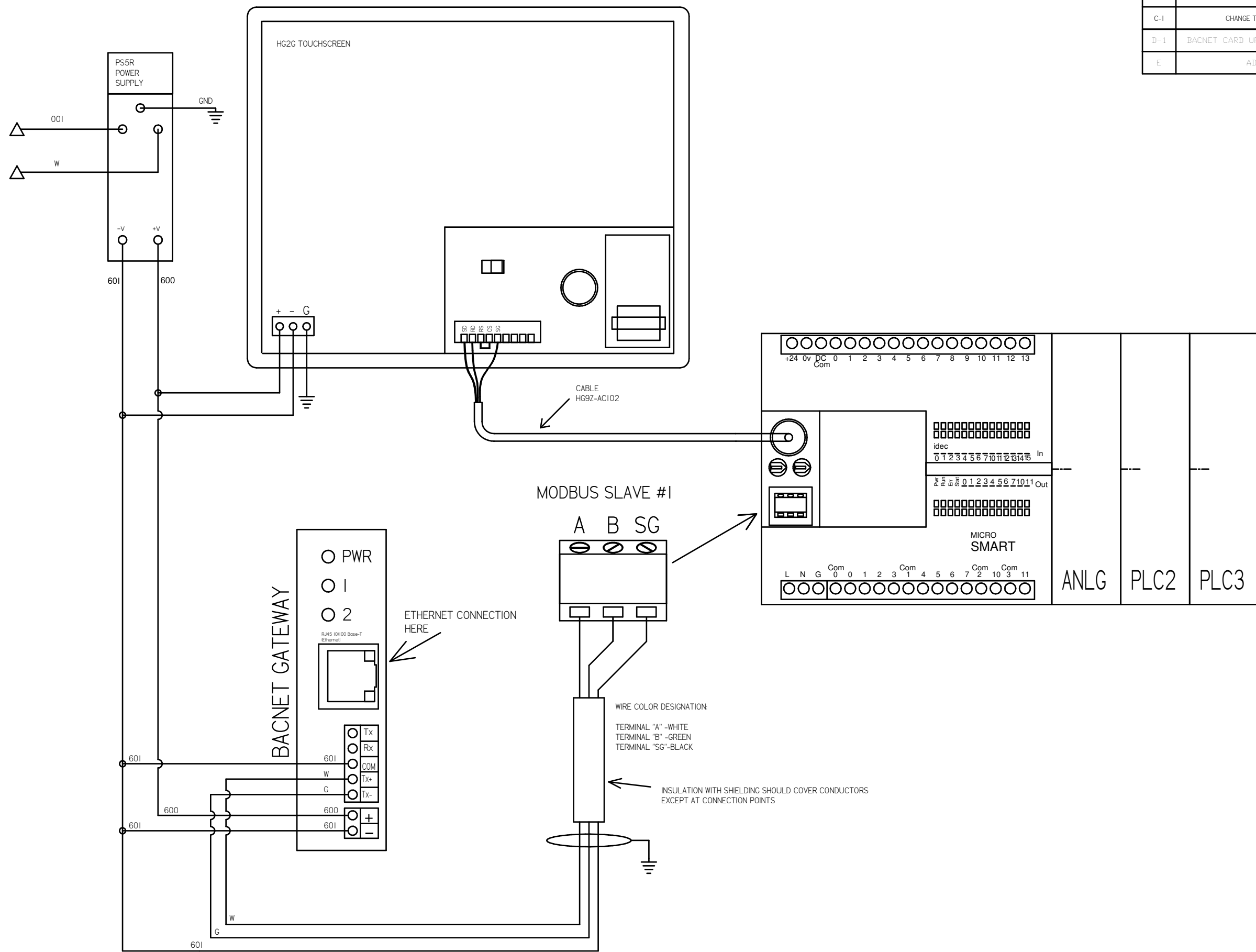
PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE: WIRING

DWG. NO. PXMI-S616F W

SHEET	SIZE
W-6	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	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
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

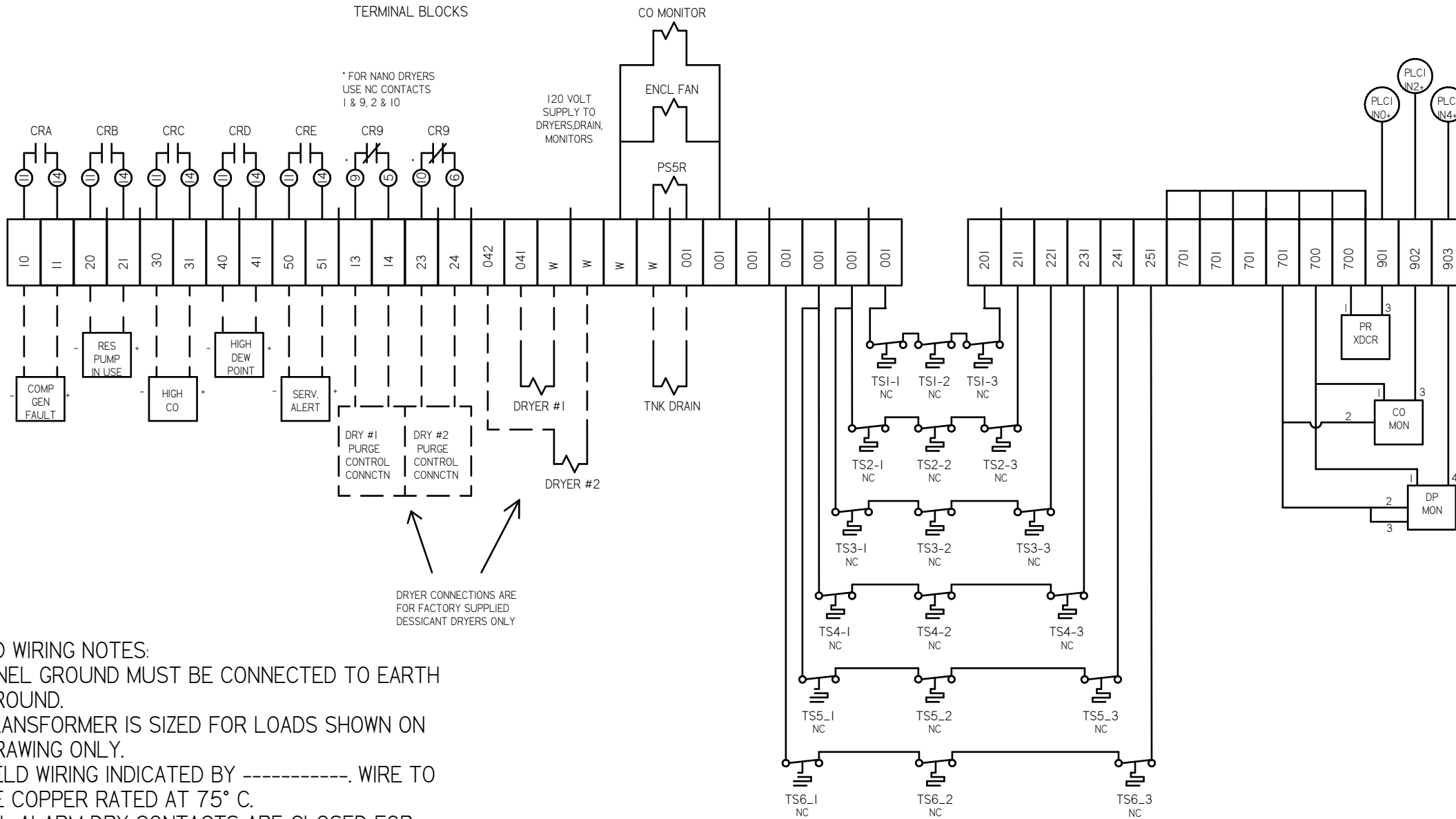
PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616F W

SHEET W-7	SIZE B
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TERMINAL BLOCKS



\* FOR NANO DRYERS USE NC CONTACTS 1 & 9, 2 & 10

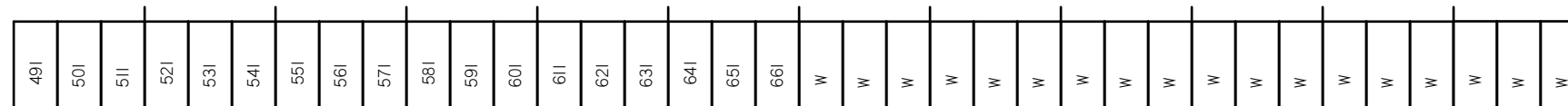
120 VOLT SUPPLY TO DRYERS, DRAIN, MONITORS

DRYER CONNECTIONS ARE FOR FACTORY SUPPLIED DESSICANT DRYERS ONLY

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD

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 49-66 FOR DETAILS

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



CONFIDENTIAL DISCLOSURE  
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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616F W

SHEET  
W-8

SIZE  
B



REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD

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	INVERSE-TIME CIRCUIT BREAKER
PXMIS616F2AJ (5HPx3)x6	208V/3Ø	14.0	256	300A	300A	300A	300A
PXMIS616F3AJ (5HPx3)x6	230V/3Ø	12.7	233	300A	250A	300A	300A
PXMIS616F4AJ (5HPx3)x6	460V/3Ø	6.33	118	150A	125A	150A	150A

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 .
- 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-8.

### 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.

WIRE TYPE TABLE			
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

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:  
BACNET, WEBSRVR,



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DRAWN BY BFH	CHECKED BY CHR	ENGINEERING APPROVAL CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

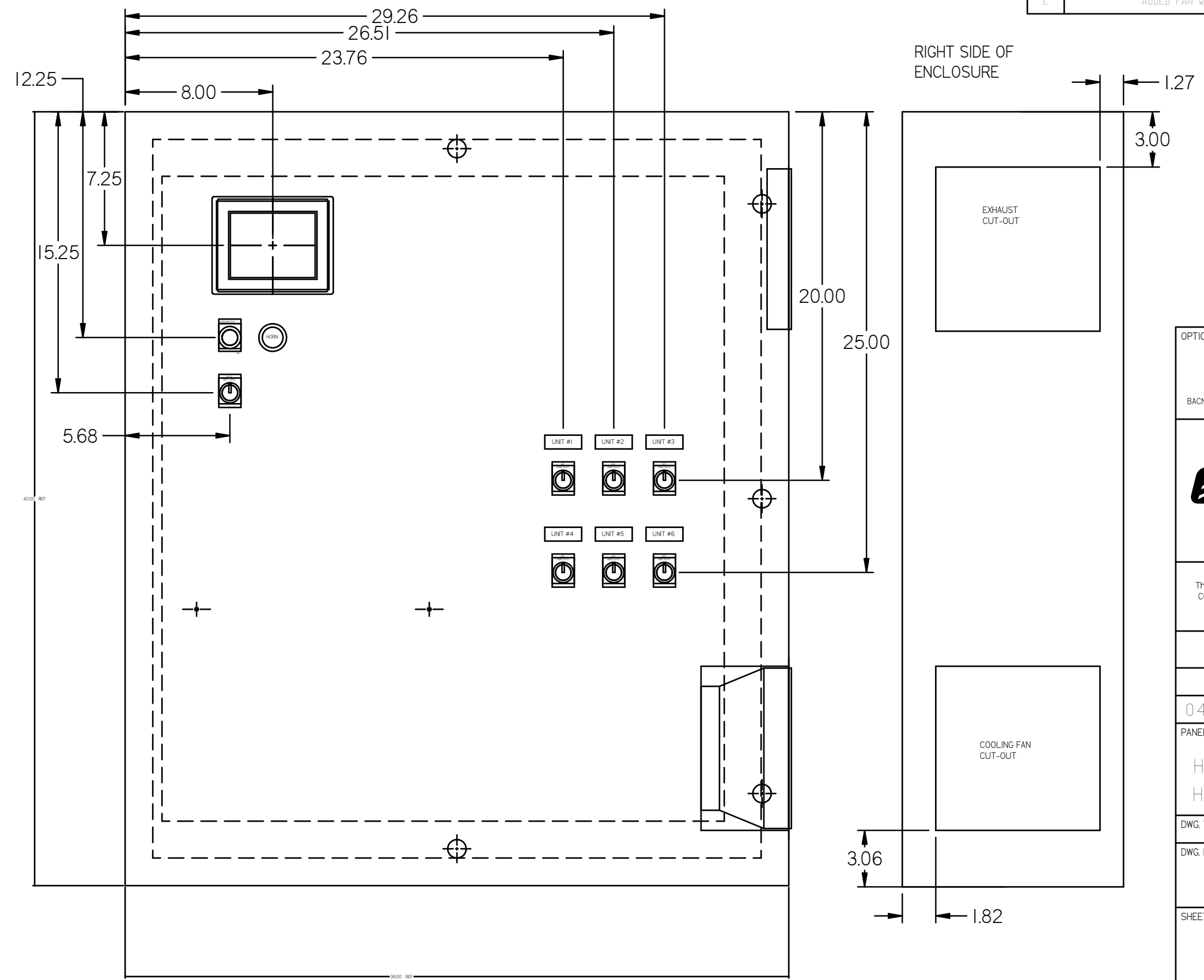
DWG. TYPE  
WIRING

DWG. NO.  
PXMI-S616F W

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

PXMI-S616F B1

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC.33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	PXEC0165	AKH	KMD



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



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DRAWN BY	CHECKED BY	ENGINEERING APPROVAL
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

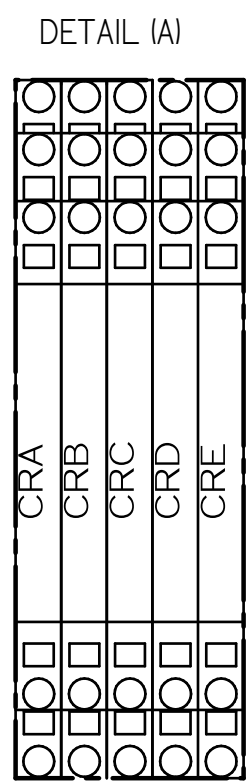
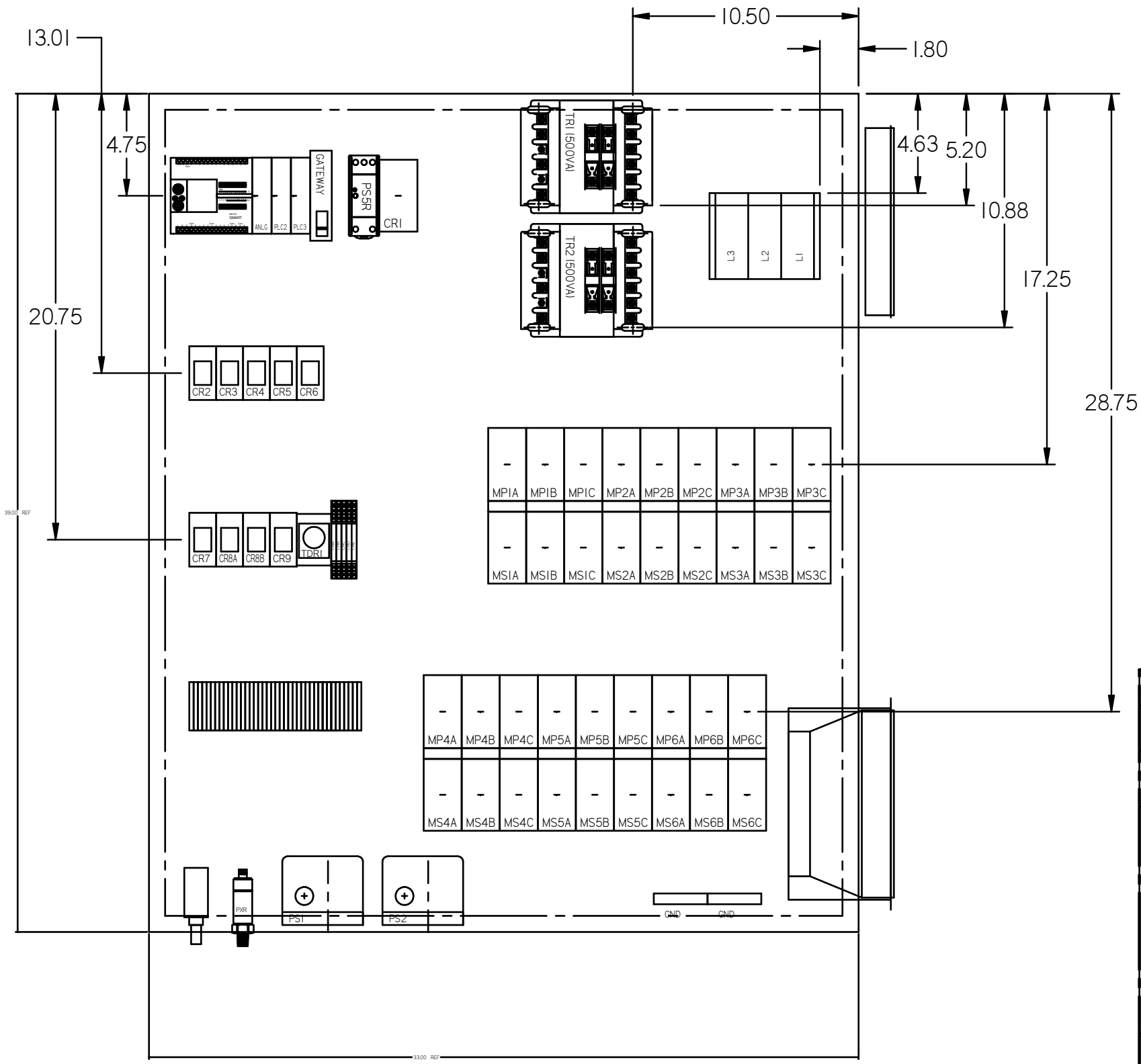
PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE LAYOUT

DWG. NO.  
PXMI-S616F W

SHEET	SIZE
L-1	B

REV	REVISION	DATE	ECN	NAME	CHKD
B-1	RELEASE TO PRODUCTION	04/24/12	22722	BFH	CHR
C-1	CHANGE TRANSDUCER TO PE000454AV	02/25/13	PXEC_33	BFH	CHR
D-1	BACNET CARD UPDATE ADD ISOLATION RELAYS	07/20/15	PXEC0110	AJL	KMD
E	ADDED FAN WIRING	9/5/18	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
BFH	CHR	CHR
04/24/12	04/24/12	04/24/12

PANEL TYPE  
HEXA MEDICAL COMP  
HMI, NFPA

DWG. TYPE  
LAYOUT

DWG. NO.  
PXMI-S616F W

SHEET	SIZE
L-2	B