

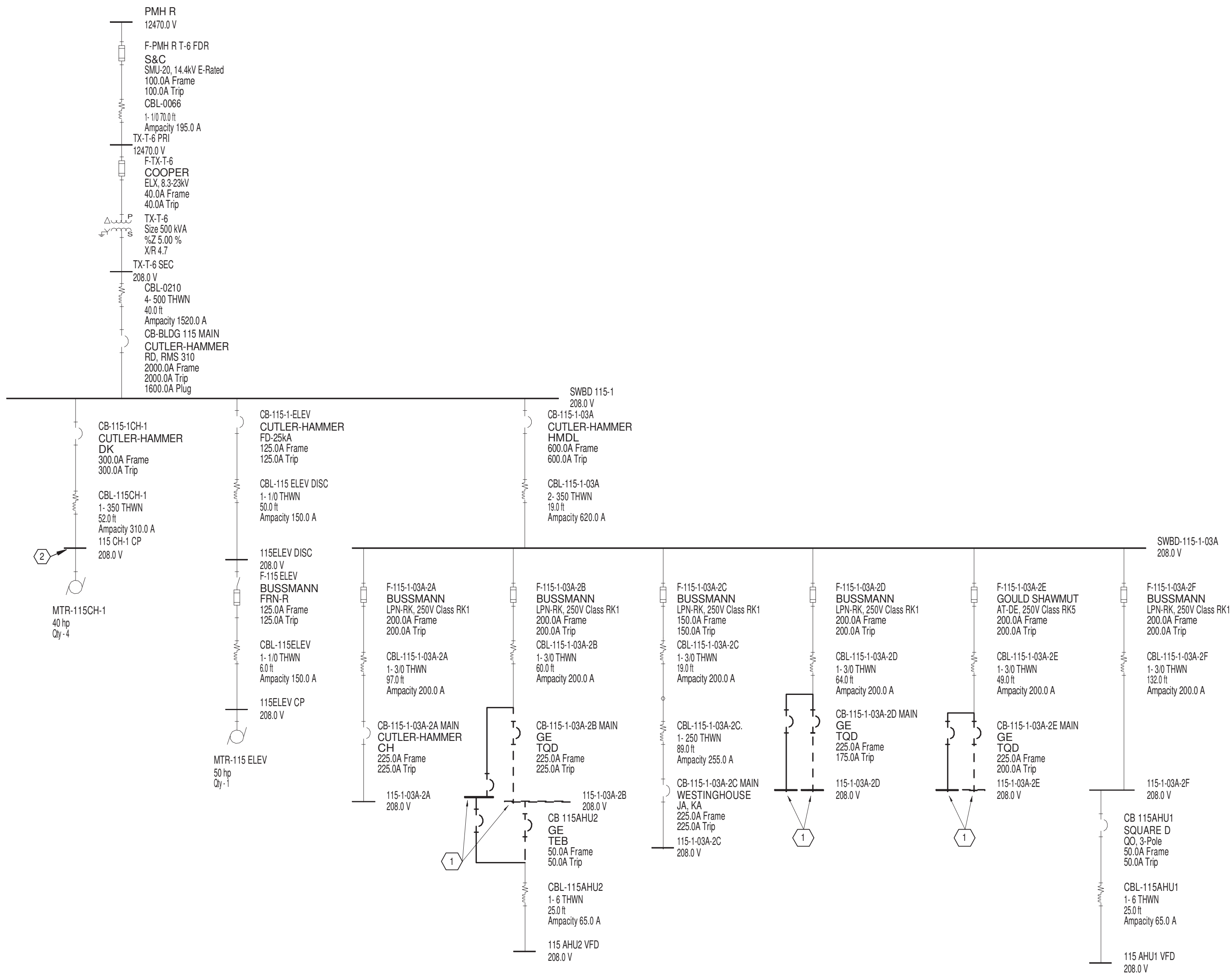
9



Panel: 115-1-03A-2B													
Location: OFFICE-1 8-1				Mounting: Surface				A.I.C. Rating: 22,000A					
Supply From: SWBD-115-1-03A				Enclosure: Type 1				Mains Type: MCB					
Voltage: 120/208 Wye-3PH-4W								Mains Rating: 225 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	2
3	Existing	20 A	1			0 VA	0 VA			3	20 A	Existing	4
5	Existing	20 A	1					0 VA	0 VA	--	--	--	6
7	Existing	20 A	1	0 VA	0 VA					--	--	--	8
9	Existing	20 A	1			0 VA	0 VA			3	20 A	Existing	10
11	Existing	20 A	1					0 VA	0 VA	--	--	--	12
13	Existing	20 A	1	0 VA	0 VA					--	--	--	14
15	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	16
17	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	18
19	Spare	30 A	1	0 VA	0 VA					1	20 A	Existing	20
21	Spare	30 A	1			0 VA	0 VA			1	20 A	Existing	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Existing	24
25	Spare	20 A	2	0 VA	0 VA					--	--	Space	26
27	--	--	--			0 VA	0 VA			--	--	Space	28
29	Spare	20 A	2					0 VA	0 VA	--	--	Space	30
31	--	--	--	0 VA	0 VA					--	--	Space	32
33	Spare	20 A	2			0 VA	0 VA			--	--	Space	34
35	--	--	--					0 VA	0 VA	--	--	Space	36
37	Spare	70 A	3	0 VA	0 VA					3	50 A	Existing	38
39	--	--	--			0 VA	0 VA			--	--	--	40
41	--	--	--					0 VA	0 VA	--	--	--	42
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD. PROVIDE 200A MAIN BREAKER.													
TOTAL CONNECTED								ESTIMATED DEMAND					
0 kVA								0 kVA (0 A)					

Panel: 115-1-03A-2D													
Location: STORAGE, GENERAL-1 212A-1						Mounting: Recessed				A.I.C. Rating: 22,000A			
Supply From: SWBD-115-1-03A						Enclosure: Type 1				Mains Type: MCB			
Voltage: 120/208 Wye-3PH-4W										Mains Rating: 225 A			
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	2
3	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	4
5	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	6
7	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	8
9	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	10
11	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	12
13	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	14
15	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	16
17	Existing	20 A	1					0 VA	0 VA	2	20 A	Existing	18
19	Existing	20 A	1	0 VA	0 VA					--	--		20
21	Existing	20 A	1			0 VA	0 VA			2	20 A	Spare	22
23	Existing	20 A	1					0 VA	0 VA	--	--		24
25	Existing	20 A	1	0 VA	0 VA					2	20 A	Spare	26
27	Existing	20 A	1			0 VA	0 VA			--	--		28
29	Existing	20 A	1					0 VA	0 VA	2	20 A	Spare	30
31	Existing	20 A	1	0 VA	0 VA					2	20 A		32
33	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	34
35	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	36
37	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	38
39	Spare	20 A	2			0 VA	0 VA			--	--	Space	40
41	--	--	--					0 VA	0 VA	--	--	Space	42
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD. PROVIDE 175 A MAIN BREAKER.													
TOTAL CONNECTED						ESTIMATED DEMAND							
0 kVA						0 kVA (0 A)							

Panel: 115-1-03A-2E													
Location: OFFICE-2 113-2				Mounting: Recessed				A.I.C. Rating: 22,000A					
Supply From: SWBD-115-1-03A				Enclosure: Type 1				Mains Type: MCB					
Voltage: 120/208 Wye-3PH-4W								Mains Rating: 225 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	2
3	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	4
5	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	6
7	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	8
9	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	10
11	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	12
13	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	14
15	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	16
17	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	18
19	Existing	20 A	1	0 VA	0 VA					1	20 A	Existing	20
21	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	22
23	Existing	20 A	2					0 VA	0 VA	2	20 A	Existing	24
25	--	--	--	0 VA	0 VA					--	--	--	26
27	Existing	20 A	1			0 VA	0 VA			1	20 A	Existing	28
29	Existing	20 A	1					0 VA	0 VA	1	20 A	Existing	30
31	Space	--	--	0 VA	0 VA					1	20 A	Existing - GFCI	32
33	Space	--	--			0 VA	0 VA			--	--	Space	34
35	Space	--	--					0 VA	0 VA	--	--	Space	36
37	Space	--	--	0 VA	0 VA					--	--	Space	38
39	Space	--	--			0 VA	0 VA			--	--	Space	40
41	Space	--	--					0 VA	0 VA	--	--	Space	42
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD. PROVIDE 200 A MAIN BREAKER.													
TOTAL CONNECTED								ESTIMATED DEMAND					
0 kVA								0 kVA (0 A)					



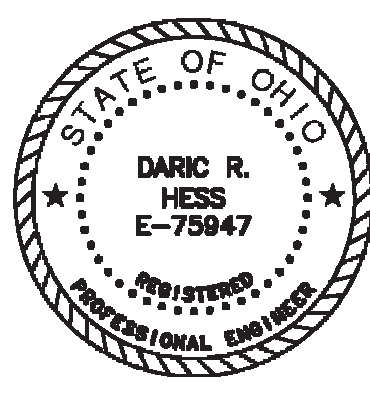
1 B115 SINGLE-LINE DIAGRAM  
Scale: N.T.S.

NOTES

- REPLACE EXISTING PANEL WITH NEW. RETERMINATE ALL EXISTING CONDUITS TO NEW TUB. EXTEND FEEDERS AND BRANCH CIRCUITRY AS REQUIRED TO ACCOMMODATE NEW PANELBOARD. REFER TO PANEL SCHEDULE AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
- REFER TO SHEET 115E102 FOR CHILLER PANEL WORK.

CONSULTANTS:

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Heapy Project No.: 2016-05088 Firm License No.: 01528



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Drawing Title

B115 SINGLE-LINE DIAGRAM

Approved: Project Director

Project Title

CORRECT ARC FLASH DEFICIENCIES

Location

Dayton, Ohio

Date

07/06/2017

Checked

MSG

Drawn

JRS

Project No.

VA Project No. 552-16-551

JPA Project No.

Building Number

Drawing Number

115E001

Dwg. of

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Construction  
and Facilities  
Management







## GENERAL NOTES

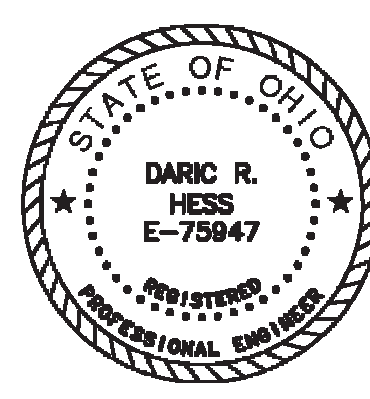
- A. SCHEDULE ANY OUTAGE WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK.  
B. WORK SHALL BE PERFORMED OUTSIDE NORMAL WORKING HOURS.  
C. PROVIDE DEDICATED NEUTRAL FOR ALL CIRCUITS UNLESS OTHERWISE INDICATED.  
D. EMT CONDUIT SHALL BE 0.75" MINIMUM.  
E. UNDER DEDUCT ALT. #2 TRACE EACH BRANCH CIRCUIT FED BY EACH PANEL MODIFIED UNDER THIS PROJECT AND UPDATE PANEL SCHEDULE ACCORDING TO ROOMS/EQUIPMENT IT SERVES.

## NOTES

1. REMOVE PANEL AND TUB. REPLACE WITH NEW. REFER TO SINGLE-LINE DIAGRAM.
2. RE-FRAMING OF WALL WILL BE REQUIRED TO ACCOMMODATE NEW PANEL. WORK TO BE PERFORMED BY LICENSED GENERAL CONTRACTOR. WALL FINISH TO MATCH EXISTING.
3. REFER TO SHEET 11SEP102 FOR CHILLER PANEL WORK.

[illegible]

CONSULTANTS:



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	Drawing Title
--	---------------

B115 BASEMENT POWER PLAN

Approved: Project Director

Project Title

## CORRECT ARC FLASH DEFICIENCIES

Location	Dayton, Ohio
----------	--------------

Date

Checked	MCC
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Drawn  
IDC

Project No. VA Project No. 552-16-551 JPA Project No. -
Building Number 115
Drawing Number 115EP100
Dwg. of

Office of  
Construction  
and Facilities  
Management



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The diagram illustrates the internal wiring and component layout of the electrical control panel. Key components and labels include:

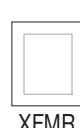
- FAN CONTACTORS**: A red label pointing to a set of contactors in the upper middle section.
- COMPRESSOR CONTACTORS**: A red label pointing to a set of contactors in the lower middle section.
- MICROPROCESSOR & I/O BOARD CONTROL BOARD IP1/L2**: A label pointing to a board on the right side of the panel.
- CAUTION**: A label with a warning symbol (a triangle with an exclamation mark) located on the left side.
- Terminal Block**: A block of terminals at the top left, labeled with numbers 1 through 10.
- Switch**: A switch labeled "SW" at the top right.
- IT**: A label near the switch.
- Wiring**: Numerous lines representing electrical connections throughout the panel.

Model/PIN	YCAL0052EE17XEB SDTX HXXRLXXX 44XX1XXXX XXXSXXX XXX 1XXXXXX F1AXXX				Serial #	SBBM-918370		
Refrigerant	Max. Allowable Pressure -Bar (psig):		High Side	45(650)		Low Side	31(450)	
410A	System Pressure Test On		2-224	at	High Side	45(650)	Low Side	31(450)
OUTDOOR USE	Volt-Phase-Hertz		Voltage Limits	Min. Circuit Ampacity (Amps)	Max. Dual Element Fuse Size	Max. Circuit Breaker Size (Amps)	Short Circuit Withstand	
Unit Control Supply:	115-140	104-126	20	20	20	300	5kA	
Unit Power Supply:	200-360	180-220	248	300				
Protection Device Size - Amps				Compressor - Amps		Fan/Pump		
System No. Min. Circuit Ampacity				Rated Current		Refrigerant		
Max. Dual Element Fuse Size				No. RLA / Nominal		kg (lb)		
Max. Circuit Breaker Size				Start-up LRA		FLA		
Max. Running Current				No. 2 51,351.3		2 7.8 44		
No. 1				2 51,351.3		2 7.8 44		
No. 2				2 51,351.3		2 7.8 44		
				Pump:		Unit Shipping Weight		
Heater Loads				No. Volts-Phase-Hertz		kg (lb)		
Compressor:				4 115-140		143(3170)		
Cooler:				1 115-140				
Pump:				- -				

[illegible]

- ## Veterans Affairs





A. SCHEDULE ANY OUTAGES WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK.  
B. WORK SHALL BE PERFORMED OUTSIDE OF CHURCH SERVICES SCHEDULE.

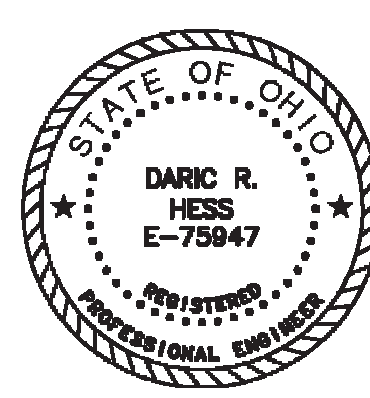
1. REPLACE EXISTING 600A, 2 POLE, 240V BREAKER WITH NEW 300A, 2 POLE, 240V BREAKER. FIELD VERIFY PANEL INFORMATION PRIOR TO ORDERING.

[illegible]

 **Heapy Engineering**  
MEP Design Technology Planning Commissioning Energy

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Date 07/06/2017

Drawn  
JBS

 Department of  
Veterans Affairs



