

1-KM1 1-KM2
COMPRESSOR CONTACTORS

MAIN DISCONNECT

2-KM1 2-KM2
COMPRESSOR CONTACTORS

Model/PIN	YLA0120SE46XCA SDXX HTXBLCXX 44SX1XXH XXXSAXX XXX XXXGXN BXA0XX			SERIAL #	SBYM-278880			
Refrigerant	Max. Allowable Pressure-Bar (psig)		High Side	45(65.0)		Low Side	31(45.0)	
	System Pressure Test On		2-18-12	at	High Side	45(65.0)	Low Side	31(45.0)

Unit Control Supply:	Volt-Phase-Hertz	Voltage Limits	Min Circuit Ampacity(Amps)	Max Dual Element Fuse Size	Max Circuit Breaker Size(Amps)	Short Circuit Withstand
	115-1-60	108-127	20	20	20	N/A
Unit Power Supply:	460-3-60	414-500	300	300	300	Refrigerant

Protection Device Size - Amps		Compressor - Amps		Fans / Pump		Kg (lb)					
System No.	Min. Circuit Ampacity	Max. Dual Element Fuse Size	Max. Circuit Breaker Size	Rated Current R L A Normal	No.	Start-up LRA	F.L.A.	LRA	No.	kg (lb)	
1				54.5/54.5 UNHA	2	310/910 UNHA	5.1	28.7	3	34.5/34.5	
2				54.5/54.5 UNHA	2	310/910 UNHA	5.1	29.7	3	28.1/60	
				Pump:		N/A	N/A	N/A			
				Volts-Phase-Hertz		Total Volts	Unit Shipping Weight Kg (lb)				
				Heater Loads No		115-1-60	600				
				Compressor	4	115-1-60	450	208(562.7)			
				Cooler	2		N/A				
				Pump	N/A		N/A				

YORK
BY JOHNSON CONTROLS
SAN ANTONIO, TX 78220 USA

029-25479-003
REV. -

Chiller 351-15:

A.) The compressor, contactors 1-KM1, 1-KM2, 2-KM1 and 2-KM2 (Schneider type LC1D10C) are rated for a SCRR of 10 kA. As documentation is available on SCRR with upstream device, these need to be provided with upstream 125 Ampere class J fuses.

B.) For the contactors to be rated for the needed SCRR, additional suitable fuses (125A) with suitable fuse holders (200A, 600V class J fuses) have to be installed ahead of these contactors.

C.) Utilize existing wires from Main disconnect to compressor controllers for this (now from main disconnect to line side of new fuse blocks). New wires rated for at least 75C, AWG#6 will be utilized to connect from the load side of new fuse blocks to line side of compressor controllers.

D.) Ensure proper mounting of all components as well as proper terminations.

Fuse Replacement Markings Required:

A.) If fuses are utilized, the fuse holders shall be provided with the required fuse replacement markings.
A permanent marking shall be installed showing the fuse replacement type, current rating, and voltage rating for each fuse installed, or a table listing each fuse with its corresponding replacement marking.

Caution Marking Required:

A.) Due to the installation requirements of a short-circuit current rating (SCCR) of at least 65,000 rms symmetrical amperes, the following caution marking shall be installed in the control panel:
"Warning-Risk of fire or electric Shock. The opening of the branch circuit protective devices may be an indication that a fault current has been interrupted. All current carrying parts and other components protected by the branch circuit protective devices should be examined and replaced if damaged".

General Discrepancies/Information Required:

A.) The drawings should be updated after correction of discrepancies.

B.) Confirm all new components to be labelled as per schematic. Label adjacent to components, not on components and not on wireway cover.

C.) Southwest Energy Systems will be doing the inspection and labelling under a separate contract.

- [illegible]



A. SCHEDULE ANY LOGS WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION NARRATIVE TO THE COR AND ENGINEER FOR APPROVAL PRIOR TO SCHEDULING SHUTDOWN. NARRATIVE SHALL INCLUDE DATE AND TIME OF SHUTDOWN, ANTICIPATED DURATION, AND SEQUENCE OF REMOVAL AND INSTALLATION. CONTRACTOR SHALL SCHEDULE A WALK THRU WITH THE COR AND ENGINEER PRIOR TO PERFORMING WORK.

B. PROVIDE TWO EXTENSION CORDS FED BY SEPARATE LIFE SAFETY CIRCUITS TO EVERY POD TO FEED EQUIPMENT DURING OUTAGE. COORDINATE WITH COR TO DETERMINE EQUIPMENT TO BE SERVED AND INCLUDE IN SEQUENCE OF CONSTRUCTION NARRATIVE.

1. REPLACE BREAKERS AS INDICATED ON SINGLE-LINE DIAGRAM.

1	SPACE	
2		3
4		5
6		7
8		9
10		11
12	SPACE	

- 1 400 - TRANSFORMER T-E
- 2 225 - SPACE
- 3 225 - PANEL DP-EEM
- 4 225 - PANEL LP - E/C
- 5 225 - PANEL MCP-D AND T-D
- 6 225 - PANEL MCP-A AND T-A
- 7 225 - PANEL MCP-C AND T-C
- 8 225 - PANEL MCP-EG E1
- 9 225 - PANEL MCP-B AND T-B
- 10 100 - ELEV. 2
- 11 100 - SPARE
- 12 100 - ELEV. 1

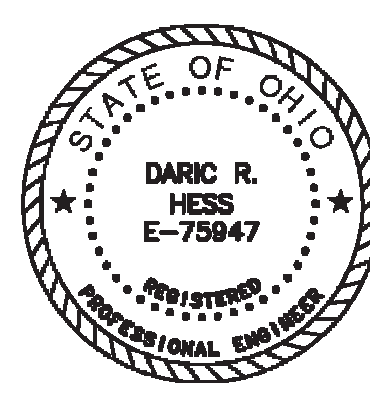
Scale: N.T.S.

[illegible]

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

Nationally Recognized Leader in Sustainability

1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com
Heapy Project No.: 2016-05088 Firm License No.: 01528



3131 NEWMARK DRIVE,
SUITE 200
MIAMISBURG, OHIO
45342
937 461 3290 PHONE
937 461 0260 FAX
ipa@johnpog.com

Approved: Project Director

Date	07/06/2017
------	------------

Checked
MSG

Drawn
JRS

320EEP100

Dwg. of

 Department of
Veterans Affairs



Scale: N.T.S.

CONSULTANTS:

A circular professional engineer seal for the State of Ohio. The outer ring contains the text "STATE OF OHIO" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the name "DARIC R. HESS" and the registration number "E-75947".

JOHN POE ARCHITECTS

Drawing Title

Approved: Project Director

Location

07/06/2017

Checked
MSG

Drawn
JBS

Drawing Number

321E001

Dura of

Office of
Construction
and Facilities
Management



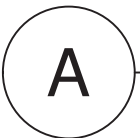


Scale: 1/4" = 1'-0"

A. SCHEDULE ANY PAGES WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION NARRATIVE TO THE COR AND ENGINEER FOR APPROVAL PRIOR TO SCHEDULING SHUTDOWN. NARRATIVE SHALL INCLUDE DATE AND TIME OF SHUTDOWN, ANTICIPATED DURATION, AND SEQUENCE OF REMOVAL AND INSTALLATION. CONTRACTOR SHALL SCHEDULE A WALK THRU WITH THE COR AND ENGINEER PRIOR TO PERFORMING WORK.

B. PROVIDE DEDICATED NEUTRAL FOR ALL CIRCUITS UNLESS OTHERWISE INDICATED.

1. REPLACE EXISTING PRIMARY CONDUCTORS WITH 3-#4/0, #4 GND. IN 2.5" FLEXIBLE METALLIC CONDUIT. FEEDERS SHALL BE INSTALLED IN CONDUIT WITH CONNECTORS ON BOTH ENDS PRIOR TO BEGINNING OF SHUT-DOWN. SHUT-DOWN DURATION SHALL BE KEPT TO A MINIMUM.



SITE PHOTOGRAPH


[illegible]

Heapy Engineering
MEP Design Technology Planning Commissioning Energy

3131 NEWMARK DRIVE,
SUITE 200
MIAMISBURG, OHIO
45342
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

 Department of
Veterans Affairs

Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs