MICHIGAN STATE

INFRASTRUCTURE PLANNING AND FACILITIES PLANNING, DESIGN AND CONSTRUCTION

May 17, 2023

 TITLE OF PROJECT:
 Food Stores – Redundant Rack for Refrigeration and Freezer

 Systems
 Systems

PROJECT ISSUE DATE: May 17, 2023

PROJECT NUMBER: CP20901

ADDENDUM NO: 1

<u>GENERAL</u>

This Addendum is issued prior to receipt of Proposals to amend the Contract Documents identified as

Food Stores – Redundant Rack for Refrigeration and Freezer Systems.

Except as otherwise specifically mentioned, the general character of the work required by this Addendum shall be the same as originally specified, and all incidentals required in connection with the work hereinafter described shall be included even though not specifically mentioned. When an item is mentioned with additional specifications given, reference shall be made to the original specifications.

Document(s) accompanying this Addendum include: Revised drawings sheets M0.0, M1.0 and E1.0.

ITEM NO. DESCRIPTION

01 <u>RFI (PB001):</u> Regarding the detail "Piping/Conduit Through Roof Deck" on plan sheet M0.0, will an alternate enclosure design be considered (see attached sketch)? An opportunity to use insulated metal panels to construct the enclosure may streamline that component.

<u>Response:</u> An alternate detail for this structure would be considered by the design team and MSU personnel. For bidding purposes, this will need to be submitted as a voluntary alternate, or something that is brought up after bidding.

02 <u>RFI (PB002):</u> Sheet M2.0 (Keynote #2). What is the approximate opening size required for the refrigeration piping?

<u>Response:</u> Final and actual refrigerant piping sizes will need to be coordinated with Phoenix Refrigeration. Refrigerant piping connection sizes listed on the submittals are 1-1/8" Liquid Line and 2-1/8" Suction Line.

03 Reference Drawing S5.1

a. All material shown on Detail #4 to support new equipment shall be furnished and installed by contractors bidding this project.

- 04 Updated Drawing M0.0
 - a. Updated plumbing fixture schedule to eliminate sump pump and add new floor sink.
 - b. Refer to Phoenix Refrigeration contact information.

05 Updated Drawing M1.0

- a. Re-route evaporator condensate drain piping and eliminate sump pump.
- b. Clarify notes regarding condensate drain piping.
- c. Refer to note informing contractors that freezer will be operational during work times.
- d. Replace existing floor drain with new floor sink.
- 06 Reference Drawing E0.0
 - a. Eliminate circuit for sump pump.
- 07 Updated Drawing E1.0
 - a. Add additional heat tape coverage to condensate drain piping.

	CHEDULE										
MARK	LOCATION	SERVING	HVAC CAPACITY			ELECTRICAL					
			AIRFLOW (CFM)	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	MCA	MOP	REC'D FUSE SIZE	VOLTS/PH/HZ	MANUFACTURER MODEL NUMBER	WEIGHT (LBS)
AC-5,6,7	INDOOR	FREEZER	20700	123,200					480/3/60	BOHN BHE1020SA	752
CU-5,6,7	OUTDOOR	FREEZER		107,184		69.6	110		480/3/60	BOHN BCV0300LDACD	2100

NOTES:

1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. DETERMINE ELECTRICAL CONNECTION QUANTITIES AND SIZES REQUIRED AND PROVIDE INFORMATION TO ELECTRICAL CONTRACTOR.

2. INDOOR UNIT IS POWERED SEPARATE FROM THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL WIRE EACH SEPARATELY. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL/COMM WIRING BETWEEN INDOOR AND OUTDOOR UNITS, AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3. COORDINATE CONDENSATE DRAIN PIPING REQUIREMENTS WITH PLUMBING CONTRACTOR. DETERMINE CONNECTION SIZE AND PROVIDE INFORMATION TO PLUMBING CONTRACTOR.

4. COORDINATE UNIT SUPPORT CONNECTIONS WITH STRUCTURAL REQUIREMENTS AND STEEL CONTRACTOR. 5. COORDINATE OUTDOOR UNIT CURB AND SUPPORT WITH ROOFING CONTRACTOR.

6. DISCONNECTS FOR INDOOR AND OUTDOOR UNITS SHALL BE PROCIDED, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. 7. PHOENIX REFRIGERATION, CONTACT STEVE ROUMAYAH, (248)344-2980, steve@phoenixrefrig.com

TAG	MANUFACTURFR	MODEL #	PLUMBING FIXTURE SCHEDULE DESCRIPTION	
140				
FS-1	ZURN	Z1900	FLOOR SINK: CAST IRON WITH CID-RESISTANT COATING, 12"X12" T BUCKET, DOME STRAINER, FLANGE AND CLAMP DEVICE, WITH HALF	OP, 6" DEEP, WITH SEDI -GRATE AND DEEP SEAI
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			<u>\\1</u>	
			SF	UP
051				
<u>GENI</u>				
Ι.	PUMP, THE CONDENSATE BRAI TOWARDS FINAL DRAIN DESTIN	L BE ROUTED AS H ATION.	HIGH AS POSSIBLE AND THEN SLOPED FROM THAT POINT	
2.	DRAWINGS ARE DIAGRAMMATI ARRANGEMENT OF SYSTEMS A EQUIPMENT.ETC. ALL LOCATIO	C AND ARE INTENDI AND EQUIPMENT. DF DNS OF SYSTEMS AI	ED TO SHOW APPROXIMATE LOCATION AND GENERAL RAWINGS SHALL NOT BE SCALED FOR LOCATION OF SYSTEMS, ND EQUIPMENT SHALL BE VERIFIED IN FIELD AND	62
	COORDINATED WITH ALL OTHE DUCTWORK, ETC.) AND EQUIPM CONDITIONS AND COORDINATI	R TRADES AND EXI IENT LOCATIONS M ON WITH OTHER TR	ISTING FIELD CONDITIONS. SOME SYSTEMS (PIPING, MAY REQUIRE CHANGES IN LOCATION DUE TO FIELD RADES. THESE CHANGES SHALL BE MADE WITH NO	
	ADDITIONAL COST TO THE OWN ADDITIONAL COMPENSATION.	NER. FAILURE TO V	/ERIFY AND COORDINATE WILL BE NO REASON FOR	
3.	THE INSTALLATION OF ALL SYS DRAWINGS AND FIELD COORDI DIMENSIONED ON DRAWINGS A CLEARANCES OR EXCEEDS SP	TEMS, EQUIPMENT NATION REQUIREM ARE LIMITING DIMEN ECIFIED OR SCHED	F, ETC., IS SUBJECT TO CLARIFICATION WITH SUBMITTED SHOP IENTS.EQUIPMENT OUTLINES SHOWN ON DRAWINGS OR NSIONS. ANY EQUIPMENT THAT REDUCES THE INDICATED DULED EQUIPMENT DIMENSIONS SHALL NOT BE USED.	
4.	THE MECHANICAL CONTRACTO DUCTWORK, ETC., AT THE TIME EQUIPMENT SHALL BE WITHIN ACCESS SPACES KEPT CLEAR.	OR SHALL COORDIN E OF ROUGH-IN. ALL 18" OF CEILING WITI PERFORM ABOVE	IATE FINAL LOCATION OF ALL EQUIPMENT WITH PIPING, L EQUIPMENT TO BE SERVICEABLE. ABOVE CEILING HOUT ANY OBSTRUCTIONS AND SHALL HAVE ALL SERVICE AND CEILING COORDINATION WITH ALL TRADES.	
5.	THE MECHANICAL TRADES SHA SHALL PAY ALL FEES AND COS	ALL TAKE OUT ALL P TS.	PERMITS AND ARRANGE FOR NECESSARY INSPECTIONS AND	UNEX
6.	THE MECHANICAL TRADES SHA REMOVED OR RELOCATED TO WALLS, ETC. ALL ABANDONED	ALL VERIFY AMOUN ⁻ ALLOW FOR INS ⁻ PIPING, VALVES, ET	T OF EXISTING PIPING, VALVES, DUCTWORK, ETC. TO BE TALLATION OF NEW PIPING, DUCTWORK, VALVES, EQUIPMENT, TC., SHALL BE REMOVED.	
7.	THE MECHANICAL TRADES SHA SYSTEMS SHUT-DOWN WITH TI	ALL COORDINATE AL HE ARCHITECT/ENG	LL WORK WITH OTHER TRADES AND SHALL COORDINATE ANY GINEER AND OWNER.	
8.	ALL EXISTING EQUIPMENT, PIP OF THE OWNER. THE CONTRAC OF THE OWNER TO A LOCATION WANT TO MAINTAIN POSSESSION REMOVING MATERIAL FROM TH AND REQUIREMENTS AND SHA PERMITS, ETC.	ING, DUCTWORK, E CTOR SHALL REMOV N DETERMINED BY ON OF THE REMOVE IE SITE AND DISPOS LL PAY ALL COSTS A	TC. THAT IS TO BE REMOVED SHALL REMAIN THE PROPERTY VE AND LOCATE THIS MATERIAL THAT REMAINS THE PROPERTY THE OWNER SOMEWHERE ON SITE. IF THE OWNER DOES NOT ED MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SING OF THIS MATERIAL AS NECESSARY TO MEET ALL CODES AS REQUIRED FOR ANY DISPOSAL FEES, INSPECTIONS,	
9.	ATTACHMENTS OF MECHANICA RESPONSIBILITY OF THE INSTA OTHERWISE MODIFIED WITHOU JOISTS SHALL BE MADE AT PAN NON-PANEL POINT CONCENTR	AL OR ELECTRICAL I ILLING TRADE. STR JT APPROVAL OF TH NEL POINTS WHENE ATED LOADS IN ACC	EQUIPMENT TO STRUCTURAL MEMBERS ARE THE RUCTURAL MEMBERS SHALL NOT BE FIELD CUT, WELDED OR HE ARCHITECT/ENGINEER. ATTACHMENT TO STEEL EVER POSSIBLE. STEEL JOISTS SHALL BE REINFORCED FOR CORDANCE WITH THE STRUCTURAL DETAILS; THIS WORK	
	SHALL BE PERFORMED BY CER SUBJECT LOAD. STRUCTURAL ATTACHMENT/EQUIPMENT LOA EQUIVALENT UNIFORM 5 PSF F REVIEW.	RTIFIED WELDERS A MEMBERS SHALL N DING FOR ALL TRAI OR ANY MEMBER SI	NOT BE OVERLOADED AS A RESULT OF ATTACHMENTS. DES RESULTING IN TOTAL LOAD GREATER THAN AN SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR	













