#  PN 20-115536 I Perinatal Replace Chiller 2

#  Type of Original Notice: Request for Bids

#  Notice Number: 20-115536

**December 15, 2020**

**ADDENDUM 1**

**SCOPE AND CLARIFICATIONS:**

1. Please provide the dimensions for the concrete slab that is to be demolished and replaces (i.e. width, length and depth). It is not clear if the scale on the drawings is accurate.

MEP Response – Dimensions are approx. 10’ x 20’ x 6”

1. Is there a soils report with excavation and compaction recommendations for the portion of the chiller pad that will demolished and replaced?

MEP Response – No

1. If there is no soils report, please confirm that no excavation or scarification of the soil is required beyond the 2" that will be removed for the new 2" sand base below the new 6" concrete slab.

MEP Response – correct. There will be no excavation beyond the 2” sand base below concrete slab.

1. Regarding compaction, if there is no soils report to tell us otherwise, we will use a walk-behind vibratory compactor to compact the native soil and the new 2" sand layer. We are assuming no compaction test will be required. Please confirm this approach is acceptable.

MEP Response – We take no exception to this approach.

1. M-1; Gen note #2, what equipment to be removed may be deemed as returned to property manager? Please specify what is to be returned?

MEP Response – Any equipment that could be reused will be at the discretion of owner to keep, including but not limited to, breakers, fuses, disconnects, etc. Verify with owner prior to salvaging.

1. M-1; Gen note #4, contractor to perform a site visit prior to providing an installation bid.
	* As the zoom meeting had only 1 photo of chiller, I do not feel as though a proper site visit has been attained to properly give a bid for this work. Will more photos be provided since site visit is not allowed?

MEP Response – Understood, MEP has provided all photos from site visit for use. A link will be provided with this addendum to download. Additionally “Final AK32 First Floor – MEP Addendum 1.pdf” has been included with additional information.

1. M-1; Demo note #1, isolate chiller from existing system. Remove glycol from isolated chiller.
	* Are existing isolation valves in the pump house to facilitate chiller 2 isolation that chiller 1 may still operate during this phase?

MEP Response: Yes

* + This will have an impact on the amount of glycol to remove and re-use depending on the footage, size of pipe.

MEP Response: Existing 4” CWS/CWR piping to pump house as shown on plans.

* + If no isolation is available, when can a shutdown of the chiller system be scheduled to accommodate the new 4” isolation ball valves on New note #3?
		- Will both chillers have to be shut off to perform this task?
		- Daytime activity or after normal business hours?
		- Pictures of interior pump room and piping with isolation valves on system.
		- Pictures of existing isolation valves, are locations shown exactly as in drawing?

MEP Response: Isolation valves are existing. See photos. Chiller is currently isolated from system.

1. M-1; Demo note #1, disconnect electrical from chiller.
	* Could you provide pictures of the existing disconnect and the outside rating as well as the inside nameplate rating, also the fuse size.

MEP Response: Photos are provided with this addendum.

* + Also take a picture of the existing conduit that feeds this chiller, up through the pad. Overhead?

MEP Response: Photo provided. Up through pad.

1. M-1; Demo note #2, states to coordinate with Civil and Structural as required.
	* Will these drawings be supplied as part of this contract?

MEP Response. No additional drawings will be provided. Field coordination with any existing elements as described will be required.

* + Based upon the note, to excavate 2” of soil and add a 2” sand base prior to concrete pad install?

MEP Response: note indicates existing conditions. Excavation of existing soil will not be required. Add additional sand as required to maintain 2” base and provide new concrete pad.

* + Will there be additional writing on this note to clarify soil conditions or additional measures to insure a sound base for the pad?

MEP Response: No, soil base below 2” sand base will remain as existing

Measure the existing pad, L x W.

MEP Response: 10’ x 20’ x 6”

* + Measure the distance from the edge of the pad to the environmental building.
	+ Measure the distance or width of the sidewalk on side of the chiller.
	+ Measure the width of sidewalk in front of the environmental building to the main building for access. Equipment, materials etc.

MEP Response: Drawing scale is at 1/8”-1’-0”. Actual dimensions requested above need to be field verified.

1. M-1; Demo note #3, remove existing sheet metal shroud at top of chiller and re-use.
	* Manufacturers have a limit as to the amount of static the condenser fans can handle in this application.
	* Measure dimensions of the existing sheet metal shroud L x W x H.

MEP Response: existing shroud is 78” x 90” x 72” .

* + Measure the total height from top of existing chiller pad to top of sheet metal shroud.

MEP Response: Approx. 14’-0”

1. M-1; New note #2, is the removed glycol solution from demo to be re-used in system when refilling?
	* Or is new 50% glycol to be added?

MEP Response: Bid to include new Glycol and inhibitor to match existing.

* + To the entire system until 50% is achieved or just the isolated chiller 2?

MEP Response: Test existing percentages in existing system. Match in isolated chiller 2.

1. M-1; New note #5, unobstructed air flow is not the issue per chiller manufacturers!
	* It is the amount of static that the fans work against, if too high then the fan motors begin to fail, manufacturer will void warranty if too many motors are issued as warranty items.
	* Has this been discussed with all four of the manufacturers listed and taken into consideration?

MEP Response: Basis of design has been vetted. Existing air shrouds are open and do not increase static from fan.

1. Electrical MCC, pic of nameplate, pic of bucket info for Alternate #2.

MEP Response: Pictures included with this addendum.

1. Electrical pic of disconnect at chiller and nameplate inside, fuses or no?

MEP Response: Pictures included with this addendum

1. Electrical pic of conduit at chiller.

MEP Response: Pictures included with this addendum

1. Approximate LF of cable conductors required for the Alternate #1.

MEP Response: Approx 200’ of cable for bid.

1. Did not see a specification for concrete or pad. Will one be provided?
	* Assuming the concrete is a standard 4000 Psi?

MEP Response: Section 32 10 00 -Bases Ballasts and Paving provided in specs. Yes standard 4000 psi is specified.

1. Can we use the surrounding area for staging?

MEP Response: Yes, coordinate with facilities manager on site for approved staging area.

1. Should contractors assume standard working hours?

MEP Response: Yes

1. How much of the existing area can we close off during our concrete pour, what about demo?

MEP Response: Coordinate with facilities manager.

1. Will contractor have to provide dumpsters – including port-o-johns?

MEP Response: Yes, contractor to include in bid

1. Is UCD worried about concrete splash-back, what about concrete dust from demo?

MEP Response: Yes, noise, vibration, splash-back and dust from demo needs to be mitigated as much as possible. Concrete slab shall be cut into pieces with a saw and removed in lieu of utilizing a jackhammer.

1. Will there be power and water onsite for contractor to use?
MEP Response: Yes
2. How would you prefer we handle our concrete wash-out?

MEP Response: Contractor to provide a temporary washout BMP during construction. Minimum 2” thick Wood frame or straw bales securely fastened around entire perimeter with stakes. Minimum 10 Mil plastic lining. Materials should be removed from site and disposed of. Holes, depressions or other ground disturbances caused should be backfilled and repaired.

1. Should the area of work be fenced in or is this in an enclosed location already?

MEP: Work area shall be fenced during construction.

Concrete Pad

1. 1). Can you please verify that the scale of the concrete pad is correct?

MEP Response: Scale shown on plans is actually 1/8”=1’-0” not ¼”.

1. 2). Can you provide pics of pad along with length, width and depth?

MEP Response: Pics provided. Approx. 10’ x 20’ x 6”

1. 3). Does the concrete contractor have to be preapproved?

MEP Response: No, submittal on mix design is acceptable.

Controls

1. 4). Can you please provide the Siemens contact that you are working with?

MEP Response: Heather Schultz- Siemens Industry, Inc.

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Electrical

1. Regarding the alternates – Price for replacing wire to the switchgear.
2. 5). We would need to know where that is located and how far?

MEP Response: Refer to “Final AK32 First Floor – MEP Addendum 1.pdf” for location of MDC to chiller 2. Approximately 200’ LF for bid

1. 6). Additionally, we would need to know what the disconnect looks like that we need to replace the fuses in?

MEP Response: Photos have been attached.

1. 7). Also, any site pictures they can provide of the existing electrical installation would be great?

MEP Response: All Photos taken by MEP has been attached. Contractor to field verify exact route of conduit.

1. Is rebar reinforcement acceptable in lieu of welded wire fabric?

MEP Response: Yes, rebar reinforcement is an acceptable alternative.

1. Will CU hire a testing agent?

MEP Response: Yes, CU will hire testing agent for concrete.

# ADDITIONAL INFORMATION:

* Link to MEP photos. <https://mep.sharefile.com/d-sb1b1796cf69f48528eeb02375448d7bb>
* Final AK32 First Floor – MEP Addendum 1.pdf attached

# END OF ADDENDUM