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Oregon State University  
Construction Contract Administration  
**ITB 198689 – DIXON CHILLER REPLACEMENT RE-BID**

**ADDENDUM NO. 2**

THIS ADDENDUM IS BEING ISSUED for clarification and/or revisions of the Solicitation Documents as noted. This document is hereby made a part of the Solicitation Documents to the extent as though it was originally included therein.

ITEM NO. 1        The BID DUE DATE/TIME has been extended to Thursday, April 11, 2019 at 2:00 PM Pacific Time.

ITEM NO. 2        Questions received and OSU responses provided below:

Q: Considering spec 23 05 23-2.14 PRESSURE REDUCING VALVE (CLOSED HYDRONIC SYSTEM FEED). Is there a make-up water feed system within the base scope of this project?

A: Sheet note on M4.01 indicates 3/4" makeup water line from glycol feed system with note to extend up to main mechanical room. Extend pipe up to main mechanical room housing the existing chilled water circulation pump being demolished as part of this contract. Connect to existing makeup water line in that room and provide new PRV as part of that connection.

Q: Detail 5 of sheet M5.01 shows the glycol mixing tank and indicates that there is an "ICW" hose bibb involved but there is no direction for ICW work on this project. Is this just a generic detail and we disregard the ICW or is there some scope for it?

A: See response to Question #1 above.

Q: Is there a start-up service that was purchased by the owner with the chiller or are we to include cost for start-up of that unit?

A: Per Specification section 23 64 00, Packaged Water Chillers, paragraph 2.1.A.2, chiller prepurchase includes startup services from the manufacturer. Contractor needs to coordinate efforts with manufacturer's startup technician and include all necessary support/labor.

Q: May we have specs for the new concrete stairs and the new door/frame/hardware?

A: Door:

Provide a 3'-0" x 7'-0" door and frame. Door and frame are required to be 1-1/2 hour rated. Provide panic hardware and automatic closer. Hardware and closer to match building and OSU standard. Door to open into stairwell. Provide punch and dimple HMTL frame. Door and frame to be painted to match building standard.

Concrete Step:

Measure, batch and mix concrete materials and concrete according to ASTM C 94/C 94M. Concrete materials shall include the following:

1. Cementitious Material - Portland Cement, ASTM C 150, Type 1/2. Cement to be low alkali cement. Fly Ash; ASTM C618, class C or F. Ground Granulated Blast-Furnace Slag; ASTM C 989, Grade 100 or 120.
2. Silica Fume: ASTM C1240, amorphous silica.
3. Normal weight aggregate, ASTM C 33 coarse aggregate or better, graded. Aggregate shall be from a single source and free of material with deleterious reactivity to alkali in cement.
4. Water: ASTM C1602 and potable. Clean and not detrimental to concrete.

Q: If there is an opportunity to reuse the existing conduit feeding the chiller, would we be able to use it and not install the new conduit?

A: The use of the existing conduit is acceptable as long as the parallel sets of conductors are exactly the same length and the conduit is filled to a maximum of 40%.

Q: Please confirm the chiller runs 24/7 and will need to be powered by an auxiliary generator during the feeder install

A: Chiller shutdown is possible during non-operating hours (night time), or for limited daytime hours. Contractor will need to schedule shutdown with Owner. Auxiliary generator will be needed to power the chiller if installation occurs during operating hours when outside air temperature necessitates cooling.

**END OF ADDENDUM NO. 2**