ADDENDUM NO. 001 (Rev 01/2017)
ISSUE DATE: 02/16/2022

RE: SEWELL SOCIAL SCIENCES 8TH FLOOR RENOVATION
UNIVERSITY OF WISCONSIN-MADISON
1180 OBSERVATORY DRIVE
MADISON, WISCONSIN

Division Project No. 0046-2110

BID OPENING:
MEP Bidders: 2:00 P.M., March 3, 2022
GPC Bidders: 2:00 P.M., March 17, 2022

FROM: DESTREE DESIGN ARCHITECTS, INC.
222 W. Washington Ave. #310
Madison, WI 53703
Phone: (608) 268.1499

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Contract Documents dated January 20, 2021 as noted below. Acknowledge receipt of this Addendum by inserting the number and issue date of this addendum in the blank space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 1 page and the attached document: Specifications sections 22 05 23.

CHANGES TO BIDDING REQUIREMENTS:
1. N/A

CHANGES TO CONDITIONS OF THE CONTRACT:
2. N/A

CHANGES TO SPECIFICATIONS (DIVISIONS 2 THRU 33):
1. REMOVE: Line 5, “22 05 15 Piping Specialties” from TC-3 of the TABLE OF CONTENTS VOLUME 1.
2. REMOVE: Line 22, “22 05 15 Piping Specialties” from TC-2 of the TABLE OF CONTENTS VOLUME 2.
3. ADD: Add missing specification section 22 05 23 GENERAL-DUTY VALVES FOR HVAC PIPING.

CHANGES TO DRAWINGS:
1. N/A

GENERAL QUESTIONS/CLARIFICATIONS:
1. N/A

END OF ADDENDUM

DESTREE DESIGN ARCHITECTS, INC. The University of Wisconsin - Madison
222 W. Washington Ave. #310 1860 Van Hise Hall, 1220 Linden Drive
Madison, WI 53703 Madison, Wisconsin 53706
Phone: (608) 268.1499
SECTION 22 05 23
GENERAL DUTY VALVES FOR PLUMBING PIPING
BASED ON DFD MASTER SPECIFICATION DATED 02/04/2020

PART 1 - GENERAL

SCOPE
This section includes valve specifications for all Plumbing systems except where indicated under Related Work. Included are the following topics:

PART 1 - GENERAL
Scope
Related Work
Reference
Lead Free Requirements
Quality Assurance
Submittals
Operation and Maintenance Data
Design Criteria

PART 2 - PRODUCTS
Water System Valves
Ball Valves
Butterfly Valves
Swing Check Valves
Spring Loaded Check Valves
Balance Valves
Drain Valves

PART 3 - EXECUTION
General
Shut-off Valves
Balancing Valves
Drain Valves
Spring Loaded Check Valves
Swing Check Valves

RELATED WORK
Section 01 91 01 – Commissioning Process
Section 22 05 00 Common Work Results for Plumbing
Section 22 05 14 - Plumbing Specialties

REFERENCE
Applicable provisions of Division 1 govern work under this section.

LEAD FREE REQUIREMENTS
All materials that contact potable water shall be lead free. Lead free refers to the wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25% per the Federal Safe Drinking Water Act as amended January 4th, 2011, Section1417.

QUALITY ASSURANCE
Substitution of Materials: Refer to Section GC - General Conditions of the Contract, Equals and Substitutions.
SUBMITTALS
Schedule of valves indicating type of service, dimensions, materials of construction, and pressure/temperature ratings for valves to be used on the project. Temperature ratings specified are for continuous operation.

OPERATION AND MAINTENANCE DATA
All operations and maintenance data shall comply with the submission and content requirements specified under section GENERAL REQUIREMENTS.

DESIGN CRITERIA
Where valve types (ball, butterfly, etc.) are specified for individual plumbing services (i.e. domestic water, gas, etc.), each valve type shall be of same manufacturer unless prior written approval is obtained from Owner.

Valves to be line size unless specifically noted otherwise.

PART 2 - PRODUCTS

WATER SYSTEM VALVES
water system valves to be rated at not less than 125 water working pressure at 240 degrees F unless noted otherwise.

BALL VALVES:
3" and smaller: Two piece bronze body; sweat, threaded or ASTM F1960 joint connection ends, full port stainless steel ball and stem; glass filled teflon seat; teflon packing and threaded packing nut; blowout-proof stem; 600 psig WOG. Provide valve stem extensions for valves installed in all piping with insulation. Nibco 585-70-66 LF or equal by Apollo, Milwaukee, Watts.

BUTTERFLY VALVES:
2-1/2" and larger: Cast or ductile iron body; stainless steel shaft; bronze, copper or teflon bushings; EPDM resilient seat; EPDM seals; EPDM encapsulated ductile iron or stainless steel disc. 200 psig WOG through valve assembly to be bubble tight to 175 psig with no downstream flange/pipe attached. Use tapped lug type valves with stud bolts or cap screws, or grooved end connection valves, permitting removal of downstream piping while using the valve for system shutoff. Nibco LD-2022 or GD-4765, or equal by Milwaukee, Victaulic or Watts.

Provide 10 position locking lever handle actuators for valves 6" and smaller. Provide worm gear operators with external position indication for valves 8" and larger.

SWING CHECK VALVES:
3" and smaller: Bronze body, sweat or threaded ends, Y-pattern, regrindable bronze seat, renewable bronze disc, Class 125, suitable for installation in a horizontal or vertical line with flow upward. Hammond UP904, Milwaukee UP509, Nibco S413-Y-LF, Watts LFCV, Apollo equal.

SPRING LOADED CHECK VALVES:
2" and smaller: Bronze body, sweat or threaded ends, bronze trim, stainless steel spring, stainless steel center guide pin, Class 125, teflon seat unless only bronze available. ConBraCo 61 series, Nibco S480-Y-LF, Watts LF600 or equal.

BALANCE VALVES:
2" and smaller: Brass body, 304 stainless steel ball, sweat or threaded ends, glass filled teflon seat, brass readout valves with EPT checks, with adjustable memory stop position indicator and extended handle stem,
suitable for 300 psig water working pressure at 200 degrees F. B&G Xylem Circuit Setter Plus CB1SLF/CB-1LF, or equal by Nibco or Watts.

DRAIN VALVES:
3/4 inch ball valve with integral threaded hose adapter, sweat or threaded inlet connections, with threaded cap and chain on hose threads, Apollo 70LF-200-HC, Milwaukee BA-100H or BA-150H Hammond 8501H or 8511H or equal by Nibco, or Watts.

PART 3 - EXECUTION

GENERAL
Properly align piping before installation of valves. Install and test valves in strict accordance with valve manufacturer's installation recommendations. Do not support weight of piping system on valve ends.

Mount valves in locations which allow access for operation, servicing and replacement.

Provide valve handle extensions for all valves installed in insulated piping.

Install all valves with the stem in the upright or horizontal position. If possible, install butterfly valves with the stem in the horizontal position. Valves installed with the stems down will not be accepted.

Prior to flushing of piping systems, place all valves in the full-open position.

SHUT-OFF VALVES
Install shut-off valves at each piece of equipment, at each branch take-off from mains for isolation or repair and elsewhere as indicated.

BALANCING VALVES
Install where indicated on the drawings and details for balancing of flow in pumped hot water recirculation piping systems.

Upon project completion, adjust each valve and set position stop. Balance system to minimum flow in return piping branches needed to maintain even supply water temperature throughout building.

DRAIN VALVES
Provide drain valves for complete drainage of all systems. Locations of drain valves include low points of piping systems, downstream of riser isolation valves, equipment locations specified or detailed, other locations required for drainage of systems and elsewhere as indicated.

SPRING LOADED CHECK VALVES
Install a spring loaded check valve in each circulating pump discharge line, each clearwater sump pump discharge line and elsewhere as indicated.

SWING CHECK VALVES
Install swing check valves in recirculation branch lines and elsewhere as indicated. Provide weighted swing check valves at sanitary sump pump discharges.

END OF SECTION