DOCUMENT 00 90 00 ADDENDUM

ADDENDUM NO. [2] Date: April 7, 2022 RE: Physical Plant Renovation Western Technical College 505 9th Street North La Crosse, Wisconsin HSR Project 21065

FROM: HSR Associates, Inc 100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 2022. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [1] page, [1] specification section, and [2] 30 x 42 drawings.

CHANGES TO SPECIFICATIONS:

- 1. Section 05 51 00 Metal Stairs
 - a. Revised section attached hereto
 - b. Paragraph 2.02 Metal Stairs with Metal Treads: Added sub-paragraph G to include galvanized finish.
 - c. Paragraph 2.04 Materials: Added sub-paragraph E to describe requirements for touchup of galvanized surfaces.
 - d. Paragraph 2.06 Galvanizing: Added sub-paragraph D to describe requirements for hotdip galvanizing.
- 2. <u>Section 27 10 05 Structured Cabling for Voice and Data</u>
 - a. Paragraph 2.01 Horizontal Copper Data Wire:
 - i. Paragraph B: Changed "Category 6 performance" to "Category 6A performance".
 - ii. Paragraph C: Changed "Category 6 performance" to "Category 6A performance".

CHANGES TO DRAWINGS

- 3. Sheet A300 WALL/STAIR SECTIONS
 - a. Revised 30"x42" sheet attached hereto.
 - b. 1/A300: Notes updated to clarify exterior stair assembly to be galvanized steel, interior platform assembly to be painted steel.
 - c. 2/A300: Notes updated to clarify exterior stair assembly to be galvanized steel, interior platform assembly to be painted steel.
- 4. Sheet P100 PLUMBING PLAN
 - a. Revised 30 x 42 sheet attached hereto.
 - b. Relocate water and gas piping for new door opening.

END OF DOCUMENT 00 90 00

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SECTION 05 51 00 METAL STAIRS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Stairs and landings with grating treads.
- B. Structural steel stair framing and supports.
- C. Handrails and guards.

1.02 RELATED REQUIREMENTS

- A. Section 01 40 00 Quality Requirements: Requirements for Contractor's Design Related Professional Design Services
- B. Section 03 30 00 Cast-in-Place Concrete: Placement of metal anchors in concrete.
- C. Section 04 20 00 Unit Masonry: Placement of metal fabrications in masonry, anchoring to existing masonry.
- D. Section 09 91 13 Exterior Painting: Paint finish.
- E. Section 09 91 23 Interior Painting: Paint finish.

1.03 REFERENCE STANDARDS

- A. ASTM A6/A6M Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling; 2016.
- B. ASTM A36/A36M Standard Specification for Carbon Structural Steel; 2014.
- C. ASTM A53/A53M Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2012.
- D. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- E. ASTM A283/A283M Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates; 2013.
- F. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2013.
- G. ASTM A501/A501M Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing; 2014.
- H. ASTM A786/A786M Standard Specification for Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates; 2015.
- I. ASTM A1008/A1008M Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable; 2016.
- J. ASTM A1011/A1011M Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2015.
- K. ASTM F3125/F3125M Standard Specification for High Strength Structural Bolts, Steel and Alloy Steel, Heat Treated, 120 ksi (830 MPa) and 150 ksi (1040 MPa) Minimum Tensile Strength, Inch and Metric Dimensions; 2015a.
- L. AWS A2.4 Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2012.
- M. AWS D1.1/D1.1M Structural Welding Code Steel; 2015 (Errata 2016).
- N. SSPC-Paint 15 Steel Joist Shop Primer/Metal Building Primer; 1999 (Ed. 2004).
- O. SSPC-SP 2 Hand Tool Cleaning; 1982 (Ed. 2004).

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories.
 - 1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
 - 2. Include the design engineer's seal and signature on each sheet of shop drawings.
 - 3. Capacity of grating treads and platforms.
- C. Welders' Certificates: (Upon request) Submit certification for welders employed on the project, verifying AWS qualification within the previous 12 months.
- D. Designer's Qualification Statement.

1.05 QUALITY ASSURANCE

A. Design the work of this section under direct supervision of a Professional Engineer experienced in design of this work and licensed in the State in which the Project is located.

PART 2 PRODUCTS

2.01 METAL STAIRS - GENERAL

- A. Metal Stairs: Provide stairs of the design specified, complete with landing platforms, vertical and horizontal supports, railings, and guards, fabricated accurately for anchorage to each other and to building structure.
 - 1. Regulatory Requirements: Provide stairs and railings that comply with most stringent requirements of local, state, and federal regulations; where requirements of Contract Documents exceed those of regulations, comply with Contract Documents.
 - 2. Structural Design: Provide complete stair and railing assemblies that comply with the applicable local code.
 - 3. Dimensions: As indicated on drawings.
 - 4. Shop assemble components; disassemble into largest practical sections suitable for transport and access to site.
 - 5. No sharp or rough areas on exposed travel surfaces and surfaces accessible to touch.
 - 6. Separate dissimilar metals using paint or permanent tape.
- B. Metal Jointing and Finish Quality Levels:
 - 1. Service: Exposed joints tight with face surfaces aligned; underside of stair not covered by soffit is not considered exposed to view.
 - a. Welded Joints: Welded on back side wherever possible.
 - b. Welds Exposed to View: Ground smooth; not required to be flush.
 - c. Bolts Exposed to View: Countersunk flat or oval head bolts; no exposed nuts or screw threads.
 - d. Metal Surfaces to be Painted: Sanded smooth, suitable for satin or matte finish.
- C. Fasteners: Same material or compatible with materials being fastened; type consistent with design and specified quality level.
- D. Anchors and Related Components: Same material and finish as item to be anchored, except where specifically indicated otherwise; provide all anchors and fasteners required.

2.02 METAL STAIRS WITH METAL TREADS

- A. Jointing and Finish Quality Level: Service, as defined above.
- B. Risers: Open.
- C. Treads: Grating with checkered steel plate nosing.
 - 1. Nosing Thickness: 1/4 inch, minimum.
 - 2. Nosing: Plate bent to minimum radius with down return of 1 inch.
 - 3. Anchorage to Stringers: Welded or bolted to carrier angles welded or bolted to stringers.

- D. Landings: Same construction as treads, supported and reinforced as required to achieve design load capacity. Install 1 1/2 inch wide aluminum oxide grit strips 6 inches on center across landings.
- E. Railings: Steel pipe railings.
- F. Finish: Shop- or factory-prime painted where noted
- G. Finish: Galvanized after fabrication, except sheet components are to be galvanized before fabrication where noted.

2.03 HANDRAILS AND GUARDS

- A. Wall-Mounted Rails: Round black schedule 40 unpainted.
 - 1. Pipe Rails: 1 1/4 inch nominal (1.66 inch O.D.) Round pipe unless otherwise indicated.
 - a. Steel Handrail Wall Bracket: 1980ST offered by The Wagner Companies.
 - b. Steel Handrail Connection to Guard Rail Post: 1980ST with 3535 adapter.

B. Guards:

2.

- 1. Rails: Round pipe unless otherwise indicated.
 - a. 1 1/4 inch nominal (1.66 inch O.D.).
 - End and Intermediate Posts: Same material and size as top rails.
 - a. Horizontal Spacing: As detailed.
 - b. Mounting: Welded to top surface of stringer or welded in sleeves set in concrete.

2.04 MATERIALS

- A. Steel Sections: ASTM A 36/A 36M.
- B. Steel Tubing: ASTM A500/A500M or ASTM A501/A501M structural tubing, round and shapes as indicated.
- C. Steel Plates: ASTM A6/A6M or ASTM A283/A283M.
- D. Pipe: ASTM A 53/A 53M, Grade B Schedule 40, black finish.
- E. Touch-Up Primer for Galvanized Surfaces: Fabricator's standard, complying with VOC limitations of authorities having jurisdiction.
 - 1. ZRC Worldwide; Galvilite. www.zrcworldwide.com.
- F. Checkered Plate: ASTM A786/A786M, rolled steel floor plate; manufacturer's standard pattern.

2.05 ACCESSORIES

- A. Steel Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, and galvanized to ASTM A153/A153M where connecting galvanized components.
- B. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.
- C. Shop and Touch-Up Primer: SSPC-Paint 15, and comply with VOC limitations of authorities having jurisdiction.

2.06 SHOP FINISHING

- A. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
- B. Do not prime surfaces in direct contact with concrete or where field welding is required.
- C. Prime Painting: Use specified shop- and touch-up primer.
 - 1. Preparation of Steel: In accordance with SSPC-SP 2, Hand Tool Cleaning.
 - 2. Number of Coats: One.
- D. Galvanizing: Hot-dip galvanize to minimum requirements of ASTM A123/A123M.
 - 1. Touch up abraded areas after fabrication using specified touch-up primer for galvanized surfaces.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

3.02 PREPARATION

- A. When field welding is required, clean and strip primed steel items to bare metal.
- B. Supply items required to be cast into concrete and embedded in masonry with setting templates.

3.03 INSTALLATION

- A. Install components plumb and level, accurately fitted, free from distortion or defects.
- B. Provide anchors, plates, angles, hangers, and struts required for connecting stairs to structure.
- C. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- D. Provide welded field joints where specifically indicated on drawings. Perform field welding in accordance with AWS D1.1/D1.1M.
- E. Other field joints may be either welded or bolted provided the result complies with the limitations specified for jointing quality levels.
- F. Obtain approval prior to site cutting or creating adjustments not scheduled.
- G. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

3.04 TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From True Alignment: 1/4 inch.

END OF SECTION





1/2" = 1'-0"

INFO BID 1

MATERIALS STRENGTHS AND STANDARDS THE MATERIAL STRENGTHS AND STANDARDS LISTED HERE REPRESENT A SELECTED SUMMARY OF THE REQUIREMENTS NOTES IN THE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE SPECIFICATIONS, THESE NOTES SHALL GOVERN. SOILS DESIGN SOIL BEARING CAPACITY FOR SPREAD/STRIP FOOTINGS 2,000 PSF (ASSUMED) CONCRETE (28 DAY STRENGTH) FOUNDATION WALLS OR PIERS f 'c = 4,000 PSI CONCRETE TOPPING SLAB f '_c = 3,000 PSI INTERIOR SLAB-ON-GRADE f 'c = 4,000 PSI EXTERIOR SLAB-ON-GRADE f 'c = 4,500 PSI MASONRY CONCRETE MASONRY UNIT ASSEMBLY f '_m = 2,500 PSI CONCRETE MASONRY UNIT (ASTM C90 - NORMAL WEIGHT) 3,250 PSI TYPE S MORTAR (ASTM C270) f '_c = 3,000 PSI GROUT (ASTM C476) f_y = 36,000 PSI ANCHOR RODS (ASTM F1554, GRADE 36) STRUCTURAL STEEL (SHAPES) fy = 50,000 PSI; fu = 65,000 PSI fy = 50,000 PSI; fu = 65,000 PSI WF, WT SECTIONS (ASTM A992) HSS SHAPES - RECTANGULAR (ASTM A500, GRADE C) PLATES (ASTM A36) f_y = 36,000 PSI; f_u = 58,000 PSI HIGH STRENGTH BOLTS (1 1/2" MAXIMUM DIAMETER) A325 UNO TENSION CONTROL BOLTS F1852 UNO WELDING ELECTRODES E70XX

STRUCTRUAL NOTES:



GENERAL PLUMBING NOTES:	
 BUILDING SYSTEMS MUST REMAIN OPERATIONAL, UNLESS OTHERWISE PERMITTED BY OWNER. COORDINATE AS REQUIRED. PATCH ALL HOLES THROUGH FLOORS W/NON-SHRINK GROUT. ALL WORK TO BE SCHEDULED AS DIRECTED BY OWNER. COORDINATE AS REQUIRED. PORTIONS OF THE BUILDING WILL BE CONTINUOUSLY OCCUPIED DURING THE CONSTRUCTION PERIOD. AVOID INTERFERENCE WITH BUILDING FUNCTION. COORDINATE TIMING OF CONSTRUCTION WORK WITH THE OWNER. THIS PLAN HAS BEEN PRODUCED UTILIZING THE EXISTING PLANS AND IS NOT INTENDED TO BE ALL-INCLUSIVE. VISIT THE BUILDING SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING THE WORK. VERIFY ALL MEASUREMENTS, PIPE SIZES, PIPE LOCATIONS, ELEVATIONS, ETC. AT SITES. REVIEW, COORDINATE, AND SCHEDULE INSTALLATION OF WORK WITH OTHER TRADES. INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY OWNER. INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. DEVIATIONS FROM LOCATIONS OF PIPING INDICATED ON THE DRAWINGS MAY HAVE TO BE MADE AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO CLEAR THE WORK OF THE OTHER TRADES. HOWEVER, ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED BY THE OWNER'S REPRESENTATIVE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ROOF DRAINS, PLUMBING FIXTURES, STRUCTURAL DIMENSIONS AND LAYOUT. IT IS THE INTENT OF THESE DRAWINGS THAT EACH AFFECTED SYSTEM BE COMPLETE, WORKING, TESTED, AND OPERATIONAL. CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL DECISION. INCLUDE ALL PLUMBING RELATED CUTTING, PATCHING AND/OR REMOVAL AND REPLACEMENT OF EXISTING WALLS, FLOORS & CEILINGS UNLESS OTHERWISE THE RISTING WALLS, FLOORS & CEILINGS UNLESS 	A. REMOVE ALL EXISTING PLUMBING & FIRE PROTECTION PIPING, (INCLUDING PIPING IN WALLS BEING REMOVED, CHASES BEING REMOVED, OR ABOVE CEILINGS), FIXTURES, EQUIPMENT, DEVI ETC., WITHIN BUILDING, INCLUDING BUT NOT LIMITED TO THAT IS SHOWN. FIELD VERIFY LOCATION AND SIZE OF PIPING, FIXTU ETC., AS REQUIRED. OTHER PIPING EXISTING, AND IS NOT SHO OR INDICATED TO BE RE-USED, SHALL BE REMOVED. DISPOSE ALL REMOVED MATERIAL OFF SITE. B. PIPING IN REMAINING WALLS OR CHASES CONNECTED TO PLU FIXTURES OR EQUIPMENT REMAINING SHALL NOT BE REMOVE REMODELING PLAN FOR RECONNECTION. C. REMOVE THE LISTED PLUMBING FIXTURES OR EQUIPMENT ANI RESPECTIVE WATER, WASTE, VENT, GAS, AND COMPRESSED A PIPING TO POINT OF RECONNECTION IN REMODELING OR TO M UNLESS PIPING IS BELOW FLOORS ON GRADE OR ABOVE NON. ACCESSIBLE CEILINGS, AND CAP/PLUG BELOW FLOOR, ABOVE CEILING AND/OR BEHIND REMAINING WALLS AS REQUIRED, OR OTHERWISE SHOWN OR INDICATED ON PLANS. PATCH TO MA' EXISTING FINISHES, UNLESS OTHERWISE SHOWN OR INDICATE ARCHITECTURAL PLANS. D. ALL FIXTURES AND RELATED EQUIPMENT (FAUCETS, DRAIN ASSEMBLIES, MIXING VALVES, CHAIR SUPPORTS, CONTROLS, F REMOVED SHALL BE FURNISHED TO THE OWNER OR DISPOSE AT THEIR DIRECTION. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE DURING FIXTURE REMOVAL INCLUDING STALL TYPE URINALS. COORDINATE WITH THE OW
OTHERWISE INDICATED. 15. NO JOINTS SHALL BE INSTALLED IN UNDERFLOOR WATER PIPING. 16. ALL WATER PIPING SHALL BE SO INSTALLED TO FACILITATE COMPLETE	2 WATER COOLER 3 STORM PIPING
 384.20(3). 10. DOMESTIC WATTER PIPE SIZING SHALL CONFORM TO SPS 382.40(7). FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS. 10. BACKELOW PROTECTION SHALL BE PROVIDE TO ALL FUTURES AND EQUIPMENT, CONFORMING TO SPS 382.41(3). 10. BACKELOW PROTECTIONS IN OT REQUIRED ON ANY TARK SAMPLES OR ON THRAD CONNECTIONS USED FOR OBTAINING WATER SMAPLES OR ON THRAD CONNECTIONS USED TO OR OBTAINING MATER SMAPLES OR ON THRAD CONNECTIONS USED TO OR OBTAINING MATER NEWLY WITH OBSC THREAD CONNECTIONS LOCATED ON WATER PIPING, WATER HEATERS, OR PRESSURE TAKIS AND USED ONLY FOR DRAINING PURPOSES, CONFORMING TO SPS 382.41(3)(b). 12. BACH FLYNER, APPLIARCE, EQUIPMENT, WALL HYDRANT AND HOSEBIBB SHALL BE VALVED, CONFORMING TO SPS 382.40(3)(b). 12. BACH FLYNER, APPLIARCE, EQUIPMENT, WALL HYDRANT AND HOSEBIBB SHALL BE VALVED, CONFORMING TO SPS 382.41(3)(b). 12. BACH FLYNER, APPLIARCE EQUIPMENT, WALL HYDRANT AND HOSEBIBB SHALL BE VALVED, CONFORMING TO SPS 382.40(7), CONCRETE FOUNDATION WALLS, REFER TO STRUCTURAL DRAINING POR INSG. AND INSTALLEEVES FOR ALL FOR PIPING ROUTED BELOW CONCRETE FOUNDATION WALLS, REFER TO STRUCTURAL DRAINING POR INSG. AND INSTALLEEVES FOR ALL BOR DRAILC STRUCTURAL DRAINING POR INSG. AND INSTALLEEVES FOR ALL DRAIN DRAILES AT 11.97 CR FOOT. 23. CONNECT VENT PIPING 28 AND OWCRETE FLIL FOR PIPING RAOTED CONNECT VENT PIPING RADO CONCRETE FLIL FOR TIPING RAOTED WASTE, DRAIN, AND SEVER PIPING 27 AND DMALLER AT 11.97 CR FOOT. 24. CONNECT VENT PIPING RADOR DRAINES AND MINING AND OF 37 AGOUT THE FLOOR SPI S32.31(5)(5).11. 25. PITTURE VENTS SHALL DAT A SUPPEOT TO OTHER BRANCH VENTS A MININUM OF 37 AGOUT THE FLOOR CONFORMING TO SPS 382.30(7) TABLE CONFORMING TO SPS 381.40(1).WHEN APPLICABLE 27. STATURE VENTS SHALL BE WATER CONFORMING TO SPS 382.30(7) TABLE BUSING AND MINING THE APPLICABLE 28. CHANDING ON TIB ALL BE MATER CONFORMING TO SPS 383.20(3). 31. LUNE VAUCENT SHALL BE CONTROLLOB BY THERMOSTATIC MI	ABBREVIATIONS AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE BT BATHTUB CB CATCH BASIN C3 COLD SOFT WATER CSS CLINCALFLUSHING RIM SINK CW COLD WATER CW COLD WATER CW CLEAR WATER VENT CWW CLEAR WATER VENT DOW DOUT NOZZLE DOWNSPOUT NOZZLE DW DISHWASHER E EXISTING CC ELECTRICAL CONTRACTOR ESEW EMERGENCY EYEWASH F FIRE PROTECTION CONTRACTOR HB HOSE BIBB HC HVAC CONTRACTOR HW HOT WATER RECIRCULATION L LAVATORY LT LAUNTRY TRAY MA MEDICAL COMPRESSED AIR MAC MEDICAL ACCUMPRESSED AIR MAC MEDICAL VACUUM MV MEDIC
 46. IDENTIFY PIPING LOCATED ABOVE CEILINGS PRIOR TO CEILING GRID INSTALLATION. 47. HOT WATER DISTRIBUTION PIPING IS TO BE INSTALLED PER INTERNATIONAL ENERGY CONSERVATION CODE (IECC) SECTION C404 SPECIFYING THE MAXIMUM ALLOWABLE PIPE LENGTH FROM A HEAT SOURCE. 	YCO YARD CLEANOUT
	/ //MARY
FIXTURE FIXTURE DESCRIPTION EWC-1 BI-LEVEL ELECTRIC WATER COOLER S-1 1 COMPARTMENT STAINLESS STEEL DROP IN SINK	WASTE PIPE SIZE FIXTURE UNITS COUNT WASTE VENT CW HW DFU CWFU HWFU 1 2" 1 1/2" 1/2" 0.5 0.25 0 1 1 1/2" 1 1/2" 1/2" 1 1 1

1.5 1.25 1

PLUMBING SHEET INDEX

P100 PLUMBING PLAN

Grand total: 2





