



Ottawa County
Fiscal Services Department

Addendum 2 – ITB 20-18

**Re-Roofing and HVAC
Improvements - Hudsonville**

September 15, 2020

**ITB 20-18 Re-Roofing and HVAC Improvements – Hudsonville
Addendum 2**

To: All Bidders,

The purpose of this Addendum is to modify and/or clarify any details of the above project. Vendors are asked to acknowledge the receipt of Addendum 1 & 2 in the submission.

ITEMS, CORRECTIONS, ADDITIONS, QUESTIONS AND ANSWERS

ITEM 1: GENERAL QUESTIONS ASKED AND ANSWERED:

Q1. Spec Section 23 3100 – HVAC Ducts and Casings - Question: Per 2.02.H-L, it states that ALL Ductwork is to be Galvanized Steel. Then under 3.03.A, it states that Ductwork Materials is to be Aluminum. Please confirm ALL Ductwork Materials are to be Galvanized and not Aluminum.

A1. [Contractors option. Steel or aluminum is approved. Schedule deleted from spec section.](#)

ITEM 2: ADDENDUM 2 WRITE-UP BY PROGRESSIVE AE:

As a result of the additional questions, clarifications, and additional scope, the following documentation from Progressive AE is attached as Appendix C.



Addendum No. 02

Project: Ottawa County 58th District Court and Public Health - Hudsonville Re-Roofing and HVAC Improvements

Date: September 22, 2020

File No: 74210006

To: Ottawa County: Amy Bodbyl-Mast, John Borgerding, Sandra Coles, Rick Vandekerkhoff
Progressive AE: Ed Avink, Ken Brandsen, Jeff Kane, Chris Masacek, Shawn Price, Mausharie Valentine
All Plan Holders

AD2-1 NOTICE

- A. This addendum to the specifications and drawings for the above-captioned project adds to or supersedes all contrary or conflicting information in specifications and drawings which is amended in the following paragraphs. This addendum is to become part of bidding documents as originally issued.
- B. Each trade shall review the entire addendum, including work of other trades, for revisions or clarifications regarding their own work.
- C. This addendum includes an updated Project Manual with revised Specification Sections 00 2113, 00 4100, 01 1000, 01 5000, 01 7000, 01 9113, 02 4100, 05 1200, 05 3100, 07 0150.74, 22 1006, 23 0519, 23 0593, 23 0800, 23 0913, 23 0923, 23 2123, 23 3100, 23 3600, 23 7413, 26 0505 and new Specification Sections 00 4323 and 01 2300.

AD2-2 ARCHITECTURAL, MECHANICAL AND ELECTRICAL WORK (ELA)

A. SPECIFICATION ITEMS (SEE REISSUED PROJECT MANUAL FOR FULL TEXT)

1. Section 00 2113 - INSTRUCTIONS TO BIDDERS

BID ENCLOSURES/REQUIREMENTS

7.06 ADDITIONAL BID INFORMATION

A. Submit the following Supplements concurrent with bid submission:

2. Document 00 4323 - Alternates Form: Include the cost variation to the Bid Amount applicable to the Work described in Section 23 0923 - Direct Digital Control Systems for HVAC.

7.08 SELECTION AND AWARD OF Alternates

- A. Indicate variation of bid price for Alternates listed on the Bid Form. Unless otherwise indicated, indicate Alternates as a difference in bid price by adding to or deducting from the base bid price.
- B. Bids will be evaluated on the base bid price. After determination of a successful bidder, consideration will be given to Alternates and bid price adjustments.
- C. Bids will be evaluated on the total of the base bid price and all of the Alternates. After determination of the successful bidder, consideration will be given to which Alternates will be included in the Work.

2. Section 00 4100 - BID FORM

THE PROJECT AND THE PARTIES

1.05 OFFER

E. Contingency Allowances described in Section 01 2100 - Allowances are included in the Bid Sum.

1.10 BID FORM SUPPLEMENTS

A. The following information is included with Bid submission:

2. Document 00 4323 - Alternates Form: Include the cost variation to the Bid Amount applicable to the Work described in Section 23 0923 - Direct Digital Control Systems for HVAC.

3. Section 00 4323 - ALTERNATES FORM – New Section

4. Section 01 1000 - SUMMARY

PART 1 GENERAL

1.04 WORK BY OWNER

B. Owner will provide storage tanks for reclaiming of R-22 refrigerant from Roof Top Units being removed.

5. Section 01 2300 BSD – ALTERNATES – New Section

6. Section 01 5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.08 WASTE REMOVAL

B. Provide containers with lids. Remove trash from site as required to prevent overflowing.
E. Contractors are not to use current County dumpsters.

7. Section 01 7000 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 3 EXECUTION

3.03 PREINSTALLATION MEETINGS

C. Notify Architect and owner four days in advance of meeting date.

3.11 ADJUSTING

B. Testing, adjusting, and balancing HVAC systems: See Section 23 0593 - Testing, Adjusting, and Balancing for HVAC.

1. To avoid conflicts, the Testing and Balancing subcontractor is not to be the controls subcontractor engaged in this project.

8. Section 01 9113 - GENERAL COMMISSIONING REQUIREMENTS

PART 3 EXECUTION

3.03 FUNCTIONAL TESTS

A. A Functional Test is required for each item of equipment, system, or other assembly specified to be commissioned.

9. Section 02 4100 - DEMOLITION

PART 3 EXECUTION

3.04 RECLAMATION

A. Reclaim R-22 refrigerant, from existing Roof Top Units being removed. Owner will provide tanks for storage.

10. Section 05 1200 - STRUCTURAL STEEL FRAMING

PART 3 EXECUTION

3.02 ERECTION

D. After erection, prime all exposed welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.

11. Section 05 3100 - STEEL DECKING

PART 3 EXECUTION

3.01 INSTALLATION

E. Immediately after welding deck and other metal components in position, coat all exposed welds, burned areas, and damaged surface coating, with touch-up primer.

12. Section 07 0150.74 - REHABILITATION OF SINGLE PLY ROOFING

PART 1 GENERAL

1.08 PROJECT CONDITIONS

A. Weather Limitations: Proceed with rehabilitation work only when existing and forecasted weather conditions permit Work to proceed without water entering into existing roofing system or building.

4. Do not apply roofing during moderate to high winds.

13. Section 22 1006 - PLUMBING PIPING SPECIALTIES

PART 2 MATERIALS

2.05 HYDRANTS (New Section inserted)

A. MANUFACTURERS:

1. Basis of Design: Jay R. Smith Manufacturing Company: (RH-1) 5907: www.jayrsmith.com.
2. Zurn Industries, LLC: www.zurn.com.
3. Woodford Manufacturing, Inc.: www.woodfordmfg.com.
4. Wade, Inc.: www.wadedrains.com
5. Substitutions: See Section 01 6000 – Product Requirements.

B. ROOF HYDRANTS:

1. Non-Freeze roof hydrant with brass extension rod, water-tight seal, handle-operated, with 3/4 inch threaded hose connection, ASSE 1019 check valve for protection against backflow, roof under deck flange and clamp, and automatic drain hole.

14. Section 23 0519 - METERS AND GAUGES FOR HVAC PIPING

PART 3 EXECUTION

3.01 INSTALLATION

J. Order from RTU manufacturer or contractor to install high and low pressure refrigeration gauges within structure of RTUs as to be easily seen. Gauges to be hard piped with isolation valves between the gauges and piping.

15. Section 23 0593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

PART 3 EXECUTION

3.05 RECORDING AND ADJUSTING

F. Check and adjust all systems approximately six months after final acceptance and submit report.

16. Section 23 0800 - COMMISSIONING OF HVAC

PART 1 GENERAL

1.04 SUBMITTALS

G. Training Manuals: See Section 01 7900 for additional requirements.

1. Provide 2 hard copies and 1 digital copy of the controls training manuals in a separate manual from the O&M manuals.

PART 3 EXECUTION

3.06 DEMONSTRATION AND TRAINING

F. HVAC Control System Training: Perform training in at least three phases:

1. Phase 1 - Basic Control System: Provide minimum of 4 hours of actual training on the control system itself. Upon completion of training, each attendee, using appropriate documentation, should be able to perform elementary operations and describe general hardware architecture and functionality of the system.

c. For off-site training, Contractor shall pay expenses of up to five attendees.

I. Attendees to be provided with takeaway reference material of items covered in training.

17. Section 23 0913 – INSTRUMENTATION AND CONTROL DEVICES FOR HVAC

PART 3 EXECUTION

3.02 INSTALLATION

G. Install remote smoke detector test key servicing each rooftop unit return air smoke detector. Remote test keys to be installed at same elevation of nearby temperature sensor(s).

18. Section 23 0923 - DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC

PART 2 PRODUCTS

2.01 MANUFACTURERS

E. Tridium Controls as installed by Trane, Inc.

PART 3 EXECUTION

3.03 MANUFACTURER'S FIELD SERVICES

C. Provide basic operator training for five persons on data display, alarm and status descriptors, requesting data, execution of commands and request of logs. Include a minimum of 16 hours dedicated instructor time. Provide training on site.

3.05 MAINTENANCE

B. Provide a five (5) year Niagara 4 Software Maintenance license for each platform and platform supervisor.

1. Alternate 1: Provide additional pricing options for extending licenses for 1 year, 3 years and 5 years beyond base bid of 5 years.

E. Vendor has an obligation to notify County of all system upgrades, license changes, security certificates or security protocol changes affecting user access, system performance or termination of Vendor / Manufacturer support during the lifetime of the control system.

19. Section 23 2123 - HYDRONIC PUMPS

PART 2 PRODUCTS

2.01 MANUFACTURERS

Delete Armstrong Pumps Inc.

PART 3 EXECUTION

3.02 INSTALLATION

D. Provide line sized shut-off valve and strainer on pump suction, and line sized soft seat check valve and balancing valve on pump discharge. Line size isolation valves both sides of pumps.

20. Section 23 3100 – HVAC DUCTS AND CASINGS

PART 3 EXECUTION

3.03 SCHEDULES Delete Schedule

21. Section 23 3600 - AIR TERMINAL UNITS

PART 3 EXECUTION

3.01 INSTALLATION

H. Insure clear access for future maintenance to Controllers and Damper Operators.

22. Section 23 7413 - PACKAGED OUTDOOR CENTRAL-STATION AIR-HANDELING UNITS

PART 2 PRODUCTS

2.01 MANUFACTURERES

Delete AAON

23. Section 26 0505 - SELECTIVE DEMOLITION FOR ELECTRICAL

PART 3 EXECUTION

3.02 PREPARATION

D. Contractors to insure during demolition that power is not disrupted to the Public Health Immunization Refrigerator.

E. All controllers, actuators and room thermostats no longer required are to be salvaged for Owner use at other sites. Care must be taken not to short controller wiring during demolition.

B. DRAWING ITEMS

1. **Drawing MH201A** (Not Reissued): Add roof hydrant, RH-1 to roof approximately 5 feet south of southeast corner of RTU-1.
2. **Drawing M501** (Not Reissued): Route 3/4 inch cold water pipe up to roof hydrant RH-1 and connect to nearby existing cold water piping. Route 1 inch drain from RH-1 and discharge into floor sink in adjacent Maintenance Office 133.