

Addendum 01

DOCUMENT 00 9100

DATE: February 16, 2023

PROJECT: Hardin County Courthouse Annex Building Brick Repair
175 West Franklin Street
Kenton, Ohio 43326

PROJECT #: 22087.00

OWNER: Hardin County Commissioners
One Courthouse Square, Suite 100
Kenton, Ohio 43326

ARCHITECT: Garmann Miller
38 South Lincoln Drive
P.O. Box 71
Minster, Ohio 45865

TO: Prospective Bidders

This addendum form is a part of the Contract Documents and modifies the Bidding Documents dated January 30, 2023 with amendments and additions noted below.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may disqualify the Bidder.

This addendum consists of 2 pages, 1 specification section, the pre-bid meeting minutes, and the pre-bid sign-in sheet.

FOR INFORMATION ONLY

1. Pre-bid meeting minutes and the pre-bid meeting sign-in sheet are attached.

CHANGES TO THE PROJECT MANUAL

1. Section 04 21 00 Clay Unit Masonry, Article 2.01 Brick Units: Add Paragraph for Group C, Brick Type 1: Bowerston Shale Company, Modular 3 5/8" x 2 1/4" x 7 5/8", Canyon Blend R/T Full Range. Reference attached specification section.



CHANGES TO THE DRAWINGS

1. Drawing Sheet A2.1 Elevations:
 - a. Change the coded note "A5" indicated on 2/A2.1 East Elevation to "A2".
 - b. Change the coded note "A5" indicated on 3/A2.1 South Elevation to "A2".

ATTACHMENTS

The following attachments are included and are part of this addendum:

Pre-bid meeting minutes and the pre-bid meeting sign-in sheet.

Specification Section 04 21 00.

END OF ADDENDUM





Pre-bid meeting

Project name	Hardin Co. Annex Bldg. Brick Repair	GM project no.	22087.00
Meeting date	February 14, 2023	Meeting location	Hardin Co. Courthouse

Outline

- Attendees: **See Attached**
- Introductions
- Project overview: This project consists of removal of existing brick veneer as noted on the drawings and replacement with new brick veneer. Disassembly and reinstallation of downspouts to complete the veneer work.
- Bidding
 - Date: February 28, 2023
 - Location: Hardin County Courthouse – Commissioner's office
 - Use the bid form provided in the specifications.
 - The bid opening will be at 10:30.00 AM.
 - Plan approval is not required for this project.
 - Estimated Budget \$200,000.00**
- Bid categories
 - General construction
- Alternates
 - Alternate 1: Provide Glen Gery Brick Group A, Brick Type 1.
- Contingency amounts to be included in bid
 - General construction: \$40,000
- Contracts will be administered by Garmann Miller
 - All questions and correspondence to go through Garmann Miller
 - All RFIs to go through Garmann Miller
 - Pay applications to go to Garmann Miller
 - Garmann Miller will schedule a preconstruction meeting with the contractor after the notice of award
- Schedule
 - Tentative award date – March 9, 2023
 - Start of construction – June 1, 2023.
 - Completion date – December 1, 2023
 - Liquidated Damages – Per Specification Section 00 73 00, Article 8.

- ii. If the contractor wants to start earlier than June 1st that can be discussed once awarded contract.

10. General conditions

- a. Waste Removal: Each prime contractor
- b. General Contractor
 - i. Responsible for construction schedule and general supervision
 - ii. Submit preliminary schedule 10 days after notice to proceed
 - iii. Responsible for scheduling and administering job meetings; prepare agenda, responsible for meeting minutes and distributing copies
- c. Responsible for telephone service to field office.
- d. Responsible for sanitary facilities
- e. Barriers
- f. Fencing

11. Temporary electricity

- a. Contractor may use existing facility electricity. Any power needed above what the owner has on site will need to be provided by contractor.
- b. Cost of electricity: Owner

12. Temporary water

- a. Contractor may use existing facility water supply. Any water needed above what the owner has on site will need to be provided by contractor.
- b. Cost of water: By Owner

13. Substitution request by 10 days prior to bid.

14. Correspondence

- a. Correspondence to run through the Garmann Miller
- a. Architectural/ General – **Chris Monnin** – cmonnin@creategm.com and **Jason Fleming** – jfleming@creategm.com.

15. Questions:

- 1. Question regarding saw cutting of the existing expansion joints. Are the existing expansion joints being cut and re caulked.
 - a. GM noted after the meeting that this is shown on the drawings as note "A1".
- 2. The question was asked if the spalled brick outside of the construction limits was to be replaced.
 - a. GM noted that this is not going to be added to the bid work.
- 3. Question during the walkthrough regarding note "A5" on sheet A2.1. What is this note designating? GM will review and respond in the addendum.
 - a. Change the coded note "A5" indicated on 2/A2.1 East Elevation to "A2".
Change the coded note "A5" indicated on 3/A2.1 South Elevation to "A2".



Sign-in Sheet

Project Name _____ GM Project No. _____
Meeting Location _____ Meeting Date _____

Purpose _____

Attendees

Name _____	Phone _____
Business/Title _____	
Email _____	
Name _____	Phone _____
Business/Title _____	
Email _____	
Name _____	Phone _____
Business/Title _____	
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Name	_____	Phone	_____
Business/Title	_____		
Email	_____		

**SECTION 04 21 00
CLAY UNIT MASONRY**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Clay facing brick.

1.02 RELATED REQUIREMENTS

- A. Section 04 05 13 - Masonry Mortaring
- B. Section 04 05 19 - Masonry Anchorage & Reinforcing
- C. Section 04 05 23 - Masonry Accessories
- D. Section 07 92 00 - Joint Sealants: Sealing control and expansion joints.

1.03 REFERENCE STANDARDS

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.
- B. ASTM A580/A580M - Standard Specification for Stainless Steel Wire 2018.
- C. ASTM C67/C67M - Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile 2021.
- D. ASTM C67 - Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile 2017.
- E. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units 2022.
- F. ASTM C126 - Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units 2022.
- G. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale) 2022.
- H. ASTM C476 - Standard Specification for Grout for Masonry 2022.
- I. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing 2017.
- J. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures 2022.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a preinstallation meeting two weeks before starting work of this section; require attendance by all relevant installers, architect and structural engineer.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Samples: Submit four samples of facing brick units to illustrate color, texture, and extremes of color range.
- C. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.

1.06 QUALITY ASSURANCE

- A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.
- B. Protection of Masonry: During erection, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
 - 1. Extend cover a minimum of 24 inches down both sides and hold cover securely in place.
 - 2. Where one wythe of multi wythe masonry walls is completed in advance of other wythes, secure cover a minimum of 24 inches down face next to unconstructed wythe and hold cover in place

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during, and 48 hours after completion of masonry work.
- B. Hot Weather Requirements: Comply with IMIAWC (HW).

PART 2 PRODUCTS

2.01 BRICK UNITS

- A. Manufacturers:
 - 1. Glen-Gery, www.glengery.com
 - 2. Belden Brick: www.beldenbrick.com/#sle.
 - 3. Bowerston Shale Company, www.bowerstonshale.com
 - 4. Substitutions: See section 01 60 00 - Product Requirements.
- B. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
 - 1. Efflorescence: ASTM C67, "non effloresced"
 - 2. Compressive strength: As indicated on drawings, measured in accordance with ASTM C67/C67M.
- C. Manufacturers:
 - 1. Brick to be supplied by one of the following groupings.
- D. Group A
 - 1. Brick Type 1:
 - a. Glen-Gery
 - b. Size: Modular 3 5/8" x 2 1/4" x 7 5/8"
 - c. Color & Texture: Olde Detroit
- E. Group B
 - 1. Brick Type 1:
 - a. Belden Brick
 - b. Size: Modular 3 5/8" x 2 1/4" x 7 5/8"
 - c. Color & Texture: Bellcrest 560
- F. Group C
 - 1. Brick Type 1:
 - a. Bowerston Shale Company
 - b. Size: Modular 3 5/8" x 2 1/4" x 7 5/8"
 - c. Color & Texture: Canyon Blend R/T Full Range
- G. Substitutions: See section 01 60 00-Product Requirements.

2.02 MORTAR AND GROUT MATERIALS

- A. Masonry Mortaring, refer to Section 04 05 13

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.

- B. Clean reinforcement of loose rust
- C. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.03 COLD AND HOT WEATHER REQUIREMENTS

- A. Cold Weather Construction: Comply with whichever is the more stringent:
 - 1. The cold weather construction provisions of TMS 602/ACI 530.1/ASCE 6, Article 1.8 C, shall be implemented when the ambient temperature falls below 40 degrees F (4 degrees C)
 - 2. Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during, and 48 hours after completion of masonry work.
 - 3. Frozen Materials and Work:
 - a. Do not use frozen materials mixed or coated with ice or frost.
 - b. Do not build on frozen work.
 - c. Remove and replace masonry work damaged by frost or freezing.
- B. Hot Weather Construction: Comply with whichever is the more stringent:
 - 1. Hot Weather Construction: The cold weather construction provisions of TMS 602/ACI 530.1/ASCE 6, Article 1.8 C, shall be implemented when the ambient temperature exceeds 100 degrees F (37.8 degrees C), or 90 degrees F (32.2 degrees C) with a wind velocity greater than 8 mph (3.58 m/s).
 - 2. Maintain materials and surrounding air temperature to maximum 90 degrees F prior to, during, and 48 hours after completion of masonry work.

3.04 INSTALLATION GENERAL

- A. Layout walls in advance for accurate spacing of surface bond patterns with uniform joint widths and to properly locate openings, movement type joints, returns, and offsets.
 - 1. Avoid the use of less than half size units at corners, jambs, returns, offsets and where ever possible.
- B. Thickness: Build masonry walls to the full thickness shown except single width walls to be nominal unit thickness.
- C. Cut masonry units with motor driven saw designed to cut masonry with clean sharp unchipped edges.

3.05 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Brick Units:
 - 1. Bond: Running.
 - 2. Coursing: Three units and three mortar joints to equal 8 inches.
 - 3. Mortar Joints: Concave.

3.06 PLACING AND BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. Remove excess mortar and mortar smears as work progresses.
- E. Interlock intersections and external corners.

- F. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- G. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
 - 1. Cut masonry units with a motor-driven saw designed to cut masonry.

3.07 WEEPS/CAVITY VENTS

- A. Install weeps in veneer and cavity walls at 24 inches on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

3.08 CAVITY MORTAR CONTROL

- A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.
- B. For cavity walls, build inner wythe ahead of outer wythe to accommodate accessories.

3.09 CONTROL AND EXPANSION JOINTS

- A. Install control and expansion joints
 - 1. Where shown on the drawings
 - 2. In accordance with the Brick Industry Association (BIA) recommendations.
 - 3. In accordance with the National Concrete Masonry Association (NCMA) recommendations.
- B. Do not continue horizontal joint reinforcement through control or expansion joints.
- C. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.
- D. Size control joints as indicated on drawings; if not shown, 3/8 inch wide and deep.
- E. Column Isolation from Masonry: Continuously wrap steel columns or structural supports within masonry walls with expansion joint filler sheets (column isolation). Secure sheets with light gauge wire.

3.10 BUILT-IN WORK

- A. As work progresses, install built-in metal door frames and glazed frames and other items to be built into the work and furnished under other sections.
- B. Install built-in items plumb, level, and true to line.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.
 - 1. Fill adjacent masonry cores with grout minimum 12 inches from framed openings.
- D. Fill cores in hollow concrete masonry units with grout 3 course (24 inches) under bearing plates beams posts and similar items, unless otherwise indicated.
- E. Do not build into masonry construction organic materials that are subject to deterioration.

3.11 TOLERANCES

- A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch.
- B. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- C. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.
- D. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch.

3.12 CUTTING AND FITTING

- A. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.13 SOURCE QUALITY CONTROL

- A. Masonry Contractor shall water test cavity to verify all water is draining to the exterior through the weeps before continuing with exterior wythe before capping wall.
 - 1. Contractor shall perform tests in the presence of, A/E, testing lab representative, and General Contractor.
 - a. Do not proceed more than 3 veneer courses above flashing without testing, observation, and picture documentation by testing lab representative.
 - 2. Contractor shall hold water hose and with standard water pressure force water into the cavity at a cell vent so water can be observed coming out adjacent weeps for a period of at least 5 minutes. Contractor shall continue down the wall to the next cell vent where a weep did not indicate water wicking out and continue this process until the entire length of flashing is tested.
 - 3. Where water is observed inside the building or outside the building away from the weeps, masonry units shall be removed and flashing re-inspected and repaired.
 - 4. Water test shall be re-performed where flashing was repaired.

3.14 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 43 00 - Quality Assurance.
 - 1. The owner is to engage and compensate the on site testing agency.
- B. Clay Masonry Unit Tests: Test each variety of clay masonry in accordance with ASTM C67/C67M requirements, sampling 5 randomly chosen units for each 50,000 installed.

3.15 MASONRY INSPECTION

- A. Provide masonry inspection of concrete or brick masonry walls as required to insure that masonry construction is in conformance with the Contract Documents.
- B. The masonry inspector shall prepare a written report or reports for each day of inspection. Masonry Inspection report that follows Section 01 40 00 shall be used for the reports.
- C. The masonry inspector shall be present and observe all grouting operations in wall requiring inspection. The masonry inspector shall be present at the project site with in sufficient time, in advance of grouting operations, to inspect the construction to insure its conformance to the Contract Documents and that grouting may proceed. Periodically the masonry inspector shall be present during the placement of masonry units and reinforcement.

3.16 CLEANING

- A. Remove excess mortar and mortar droppings.
- B. Replace defective mortar. Match adjacent work.
- C. Clean soiled surfaces with cleaning solution.
- D. Use non-metallic tools in cleaning operations.

3.17 PROTECTION

- A. Protect installed units from splashing, stains, mortar, and other damage.
- B. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

3.18 MASONRY WASTE DISPOSAL

- A. Comply with waste Management requirements of Division 01, Construction Waste Management and Disposal
- B. Excess Concrete Masonry Waste: Remove excess clean concrete waste that cannot be used as fill as described above and other masonry operations waste, and legally dispose of off site.

END OF SECTION

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