



**ADDENDUM NO. 1**

**April 17, 2024**

**RE: Washington County Emergency Services  
65 Honeysuckle Way  
Springfield, Kentucky 40069  
Project No. 22047**

**FROM: Brandstetter Carroll Inc.  
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Lexington, Kentucky 40517  
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**TO: Plan Holders**

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This Addendum forms a part of the Construction Documents and Specifications dated April 3, 2024. Each Bidder shall 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 three (3) pages and the following attachments:

- Specification 284101 Electrical Emergency Responder Radio Coverage Testing

**GENERAL:**

1. Sales tax is to be included in the bid amount. The owner is tax exempt and will employ direct purchase orders for material packages over \$5,000.
2. Builders Risk insurance will be provided by the Owner.
3. Third-Party Construction Testing & Special Inspections will be provided by the Owner.

**CHANGES TO SPECIFICATIONS:**

1. 031313 Integrated Framing Assemblies (IFAs)
  - a. Integrated Framing Assemblies have been specified for penetrations straddle the storm shelter and pre-engineered metal building.
  - b. All references to Insulated Concrete Forms are to be disregarded. Refer to the drawings for specific instances and construction types.
2. 074113.16 Standing-Seam Metal Roof Panels
  - a. East Lake Metals may be considered an acceptable manufacturer.
3. 083613 Sectional Doors

- a. Refer to 2.8, D
    - i. Sections shall be 3" thick, per the specified basis of design door make/model.
  - b. Refer to 2.8 H, 1
    - i. Color shall be selected by Architect from manufacturer's full range.
4. 101400 Signage
- a. Refer to 2.2 Plaques. Cast Plaque shall be 18" wide by 24" tall. Artwork for plaque will be provided prior to the shop drawing process and include text and logo(s) as desired by the Owner.
5. 133419 Metal Building Systems
- a. American Standard Steel Building Systems may be considered an acceptable manufacturer.
  - b. CECO Building Systems may be considered an acceptable manufacturer.
  - c. Purlin and girt deflection of L/240 is acceptable in lieu of L/360, as indicated.
6. 260923 Lighting Control Devices
- a. Acuity may be considered an acceptable manufacturer.
  - b. Current may be considered an acceptable manufacturer.
7. 284101 Electrical Emergency Responder Radio Coverage Testing
- a. Refer to the attached specification 284101 Electrical Emergency Responder Radio Coverage Testing.

**CHANGES TO DRAWINGS:**

1. S-101 Foundation and Shelter Roof Framing Plan
- a. Due to the storm shelter location and relationship to the PEMB framing, the portal frames shall be located outside of the storm shelter area. The PEMB system shall not be tied to the storm shelter walls, as they must be independent of one another.
  - b. In coordination with the Grading Plan (C-400) and the Exterior Architectural Elevations (A-201), the intent is for the exterior metal panels to extend to 4" above the grade at instances where these metal panels are located below the finished floor elevation. Therefore, at these conditions, the 1'-4" wide stem wall can be reduced to 1'-3" wide. All other instances can shift the foundation and stem wall, unreduced in width, towards the interior of the building by 1" to accommodate 1" metal furring channels at 16" O.C. to serve as support for the exterior metal panels, at below finish floor elevations conditions. A closure trim shall be provided to cover the gap at the bottom of the wall.
2. A-101 Floor Plan & Reflected Ceiling Plan
- a. Refer to the Reflected Ceiling Plan, A1.
    - i. The intent of "HIGH BAY SECTIONAL DOOR TRACKS" is to follow the roof pitch to provide as much clearance for vehicle/apparatus below. Coordination with other trades will be required.

3. A-301 Wall Sections
  - a. Refer to Wall Section A1.
    - i. Although a spandrel PEMB member is shown, this condition may vary as the ultimate design shall be per the PEMB manufacturer.
4. C-400 Overall Grading Plan
  - a. The basis of design for exterior trench drains shall be ADS Duraslot XL Heavy Traffic or approved equal. The system shall be 8" nominal diameter with 2.5" grate and be installed per the manufacturer's requirements.
5. E-501 Electrical Notes & Single Line Diagram
  - a. Aluminum feeders may be used in lieu of copper. The contractor shall be responsible for conduit size and grounding conductor wire size changes, per NEC requirements.

**END OF ADDENDUM NO. 1**

## SECTION 28 4101 - EMERGENCY RESPONDER RADIO COVERAGE TESTING

## PART 1 - GENERAL

## 1.1 SUMMARY

- A. Provide initial and final testing to determine the need for an Emergency Responder Radio Antenna/Repeater System. The system will support the Fire Department radio system and Provisions for supporting other public safety systems (e.g. police); cell phone carriers; the Owners' private security and/or maintenance personnel radio systems, etc.
- B. This Section includes the compliance testing requirements for an Emergency Responder Radio Antenna/Repeater System for the purposes of amplifying Emergency Responder radio signals to achieve minimum signal strength in 95% of all areas on each floor of the building.
- C. Final acceptance and approval are required from the local Fire Department for Fire Department Radio system and owner's representative for all other systems in writing prior to contract closeout.
- D. If test results report failure in more than 5% of the building, an emergency responder radio antenna/repeater system will be provided.

## 1.2 DEFINITIONS

- A. Definitions:
  1. Emergency Responder Radio Coverage System: A two-way radio communication system installed to assure the effective operation of radio communications systems for fire, emergency medical services or law enforcement agencies within a building or structure. A system used by firefighters, police, and other emergency services personnel.
  2. Delivered Audio Quality Definitions (DAQ): This is a universal standard often cited in system designs and specifications.
    - a. DAQ 1: Unusable, speech present but unreadable.
    - b. DAQ 2: Understandable with considerable effort. Frequent repetition due to noise/distortion.
    - c. DAQ 3: Speech understandable with slight effort. Occasional repetition required due to noise/distortion.
    - d. DAQ 3.5: Speech understandable with repetition only rarely required. Some noise/distortion
    - e. DAQ 4: Speech easily understood. Occasional noise/distortion.
    - f. DAQ 4.5: Speech easily understood. Infrequent noise/distortion.
    - g. DAQ 5: Speech easily understood. Coupled Bonding Conductor (CBC) – The term "Coupled Bonding Conductor" shall mean a bonding conductor placed, e.g. strapped, on the outside of any technology cable, used to suppress transient noise.
  3. FCC: Federal Communications Commission

4. OET 65 Standards: FCC's Bulletin 65 provides Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
5. Public Safety/First Responder: Public Safety or First Responder agencies which are charged with the responsibility of responding to emergency situations. These include, but are not limited to law enforcement departments, fire departments, and emergency medical companies.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

3.1 INITIAL TESTING

- A. Tests shall be made using frequencies close to the frequencies used by the Fire Department and appropriate frequencies for other systems and appropriate emergency services. If testing is done on the actual frequencies, then this testing must be coordinated with the local Fire Department unit. All testing must be done on frequencies authorized by the FCC. A valid FCC license will be required if testing is done on frequencies different from the police, fire or emergency medical frequencies.
- B. Testing Procedures
- C. Minimum Signal Strength: For testing system signal strength and quality, the testing shall be based on the delivered audio quality (DAQ) system. A DAQ level below 3.0 shall be considered a failed test for a given grid cell.
- D. Measurements shall be made with the antenna held in a vertical position at 3 to 4 feet above the floor to simulate a typical portable radio worn on the belt or turnout coat pocket.
- E. Final Acceptance Testing
- F. All acceptance testing shall be done in the presence of a local Fire Department representative or by the local Fire Department unit and owner's representative at no expense to the City.
- G. Small scale drawings (11-inch x 17 inch maximum) of the structure shall be provided by the Contractor to the Owner. The plans shall show the floor plan divided into the grids as described above, and the results of the pre-testing. Each grid shall be labeled to indicate the DAQ result from the final acceptance testing.

END OF SECTION 28 41 01