

**SECTION 00 9111
ADDENDUM NUMBER 1**

PARTICULARS

1.01 DATE: APRIL 16, 2021

1.02 PROJECT: MANILA FIRE STATION ADDITION

1.03 PROJECT NUMBER: 2004

1.04 OWNER: CITY OF MANILA, ARKANSAS

1.05 ARCHITECT: STEILING ARCHITECTURE

TO: PROSPECTIVE BIDDERS:

2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL PROCUREMENT DOCUMENTS DATED MARCH 29, 2021 , WITH AMENDMENTS AND ADDITIONS NOTED BELOW.

2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

2.03 THIS ADDENDUM CONSISTS OF 1 PAGE PLUS THE FOLLOWING:

- A. Add or replace the following specification sections in the Project Manual:
 - 1. Section 08 36 00 Sectional Overhead Doors 4 pages
 - 2. Section 23 09 24 Control Devices For HVAC 3 pages

CHANGES TO THE PROJECT MANUAL

2.04 SECTION 08 36 00 SECTIONAL OVERHEAD DOORS

- A. Insert the attached Section into the Project Manual.

2.05 SECTION 23 09 24 CONTROL DEVICES FOR HVAC

- A. Insert the attached section into the Project Manual and add the Section Title to the Table of Contents

CHANGES TO DRAWINGS:

3.01 DRAWING SHEET E102

- A. Refer to Keyed Note 6:
Garage doors shall not be interlocked with the carbon monoxide system.

END OF ADDENDUM NUMBER ONE

SECTION 08 3600
SECTIONAL OVERHEAD DOORS
ADDENDUM ONE

PART 1 GENERAL

2.01 SECTION INCLUDES

- A. Insulated Sectional Overhead Doors, electric operation, exterior usage.
- B. Electric Operators and Controls.
- C. Operating Hardware, tracks, and support.

2.02 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: Prepared opening in concrete. Execution requirements for placement of anchors in concrete wall construction.
- B. Section 05500 - Metal Fabrications: Steel frame and supports.
- C. Section 07411 - Metal Wall Panels.
- D. Section 07520 - Modified Bituminous Membrane Roofing
- E. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.
- F. Section 09900 - Paints and Coatings: Field painting.
- G. Section 16130 - Raceway and Boxes: Empty conduit from control station to door operator.
- H. Section 16150 - Wiring Connections: Electrical service to door operator.

2.03 REFERENCES

- A. ANSI/DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors.

2.04 DESIGN / PERFORMANCE REQUIREMENTS

- A. Wind Loads: Design and size components to withstand loads caused by pressure and suction of wind acting normal to plane of wall as calculated in accordance with applicable code.
- B. Wiring Connections: Requirements for electrical characteristics.
 - 1. Refer to Electrical Drawings and verify volt / phase availability at site.
- C. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

2.05 WARRANTY

- A. Provide manufacturer's commercial sectional door Warranty to include the following:
 - 1. Commercial sectional door and commercial door operator, including all parts of the system purchased and installed together.
 - 2. All system components thereof will be free from defects in materials and workmanship under normal use for the following periods, measured from the date of installation;
 - 3. Manufacturer warrants the door sections for a period of ten (10) years from the date of installation against delamination (separation) of the polyurethane foam from the steel skin of the panels.
 - 4. Seller warrants all other components of the System, except the counterbalance spring and finish, to be free from defects in materials and workmanship for three (3) years from the date of installation or 20,000 cycles, whichever occurs first.
- B. Seller's obligation under this warranty is specifically limited to repairing or replacing, at its option, any part which is determined by Seller to be defective during the applicable warranty period. Repair or replacement labor for any defective door part or component is included for a period of one year from the date of installation. After that, any labor charges are excluded and will be the responsibility of the purchaser.
- C. Warranty does not apply to any failure or defect resulting from operator error.

2.06 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- E. Operation and Maintenance Data.

2.07 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum ten years documented experience.
- B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.
- C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

2.08 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened labeled packaging until ready for installation.
- B. Protect materials from exposure to moisture until ready for installation.
- C. Store materials in a dry, ventilated weathertight location.

PART 2 PRODUCTS

3.01 MANUFACTURERS

- A. Acceptable Manufacturer: Wayne Dalton; 2501 S. State Highway 121 Business, Suite 200, Lewisville, TX 75067. ASD. Phone: (800) 827-3667; Web Site: www.wayne-dalton.com.
- B. Acceptable Manufacturer: Overhead Door Corp., Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

3.02 INSULATED SECTIONAL OVERHEAD DOORS

- A. Acceptable Products:
 - Series 200-20, Thermospan high-lift by Wayne Dalton Corporation.
 - 596 Series Thermacore Insulated Sectional Steel Doors by Overhead Door Corporation.
- B. Units shall have the following characteristics:
 - 1. Door size: Refer to Drawings for required size(s).
 - 2. Door Assembly: Metal/foam/metal sandwich panel construction, with PVC thermal break and ship-lap design. Provide as listed below:
 - a. Panel Thickness: 2 inches
 - b. Panel Height: 21 inches
 - c. Exterior Surface: Flush, textured.
 - d. Exterior Steel: 20 gauge, galvanized.
 - e. End Stiles: 16 gauge with thermal break.
 - f. High Cycle Springs: Minimum 25,000 cycles
 - g. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
 - h. Thermal Values: R-value of 17.40; U-value of 0.057.
 - i. Air Infiltration: 0.08 cfm at 15 mph; 0.08 cfm at 25 mph.
 - j. Sound Transmission: Class 26.

- k. High-Usage Package: Provide with optional high-usage package.
- l. Partial Glazing of Steel Panels:
 - 1) 1/2 inch Tempered Double insulating glass, 24 inch by 7 inch (610 mm by 178 mm) window. (4) openings per door unit, as indicated on plans.
 - 2) Glazing for sectional overhead doors to be provided by door manufacturer.
- 3. Finish and Color: Two coat baked-on polyester:
 - a. Interior color, white.
 - b. Exterior color: To be selected from manufacturer's standard color selections.
- 4. Windload Design: Provide to meet the Design/Performance requirements specified.
- 5. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
- 6. Lock: Interior mounted slide lock with interlock switch for automatic operator.
- 7. Weatherstripping:
 - a. EPDM bulb-type strip at bottom section.
 - b. Flexible Jamb seals.
 - c. Flexible Header seal.
- 8. Track: Provide track as recommended by manufacturer to suit loading required and clearances available. Refer to Contract Drawings.
- 9. Wind load options.
- 10. Posi-Tension drums.
- 11. Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second. Operator shall meet UL325/2010 requirements for continuous monitoring of safety devices.
 - a. Entrapment Protection: Required for momentary contact, includes radio control operation.
 - 1) Pneumatic sensing edge up to 18 feet (5.5 m) wide. Constant contact only complying with UL 325/2010.
 - 2) Photoelectric sensors monitored to meet UL 325/2010.
 - b. Operator Controls:
 - 1) Push-button operated control stations with open, close, and stop buttons.
 - 2) Flush mounting.
 - 3) Interior location.
 - c. Special Operation:
 - 1) Radio control operation.

PART 3 EXECUTION

4.01 EXAMINATION

- A. Do not begin installation until openings have been properly prepared.
- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

4.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

4.03 INSTALLATION

- A. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.

- C. Anchor assembly to wall construction and building framing without distortion or stress.
- D. Securely brace door tracks suspended from structure. Secure tracks to structural members only.
- E. Fit and align door assembly including hardware.

4.04 CLEANING AND ADJUSTING

- A. Adjust door assembly to smooth operation and in full contact with weatherstripping.
- B. Clean doors, frames and glass.
- C. Remove temporary labels and visible markings.

4.05 PROTECTION

- A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.
- B. Protect installed products until completion of project.
- C. Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

END OF SECTION

SECTION 23 09 24
CONTROL DEVICES FOR HVAC

PART 1 GENERAL

1.01 SCOPE

- A. Carbon Monoxide and Nitrogen Dioxide Detectors.
- B. Includes:
 - 1. This section includes but is not necessarily limited to the carbon monoxide and nitrogen dioxide system and ventilation control.
 - 2. Conduit shall be furnished by the Electrical Contractor.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 23 05 00 – Common Work Results for Heating, Ventilating and Air Conditioning.
- B. Section 23 09 23 - Automatic Temperature Controls.
- C. Division 26 - Electrical Requirements.

1.03 SUBMITTALS

- A. The contractor shall submit complete information including but not limited to enclosure type, features, standard outputs, ratings, dimensions.

PART 2 PRODUCTS

2.01 VEHICLE EXHAUST GAS DETECTOR SYSTEM

- A. APPROVED MANUFACTURERS
 - 1. The vehicle gas detector system shall be manufactured by Toxalert International, Inc. or Architect approved equal.
- B. SYSTEM CONTROLLER
 - 1. The system controller shall continuously monitor its remote sensors. When an alarm condition is detected the controller shall delay exhaust fan contact closure for 30 seconds. If the high gas level condition persists for more than 30 seconds the exhaust fan contacts shall close. The minimum fan ON time shall be field settable from 5 to 55 minutes, in 5 minute increments. Should the alarm condition remain after the minimum run time has timed out, the exhaust fan contacts shall remain closed (ON) and a second "alarm" set of contacts shall close and an audible alarm is sounded and alarm lights are lighted.
 - 2. The controller shall be powered by 120 vac, 60Hz, 1A (fused) and provide all low voltage power to remote sensors. 24 vac, 2A resistive, 1.5A inductive auxiliary relay contacts shall be provided for remote control.
 - 3. Options:
 - a. Provide clearly labeled light emitting diodes (LED's) on face of the controller panel to indicate the following:
 - 1) Power "ON" to system - Green LED
 - 2) Red LED for each sensor to indicate high gas level conditions (warning & alarm levels).

- 3) Amber LED to indicate Fan On.
- 4) Red LED to indicate Alarm condition.
- b. Provide an audible alarm with a minimum sound intensity of 68dB, on the face of the control panel. Provide an "Audible Reset" push button switch to silence the audible. Audible silence circuit shall be self resetting so that after alarm is cleared the audible alarm will automatically resound on the next alarm activation.
- c. Keyed panel lock.
- d. Provide a remote alarm panel and mount where indicated on the plans. The remote alarm panel shall include a red LED alarm indicator and an audible alarm, with a minimum sound intensity of 68dB. Provide an "Audible Reset" momentary push switch to silence the audible. The alarm LED must stay lighted as long as the alarm condition persists.
- 4. The controller shall be Model GVU-6 as manufactured by Toxalert International.

C. CARBON MONOXIDE SENSOR

- 1. Provide a Model GVU-CO remote carbon monoxide (CO) sensor(s) as located on the drawings. The remote CO sensor shall utilize a solid state sensing element, be micro processor based and be both temperature and humidity compensated for long life and stability. Pilot lights or LED's (light emitting diodes) shall indicate: a) Unit normal operation/NOT in alarm, b) High CO/unit in alarm, and c) shall indicate unit malfunction. In the unit malfunction condition the CO sensors output shall be fail-safe and indicate steady high CO condition. The CO sensor range shall be 0 to 250 ppm and shall be power by low voltage from the GVU-6 control unit.
- 2. The sensor shall be Model GVU-CO as manufactured by Toxalert International.

D. NITROGEN DIOXIDE SENSOR

- 1. Provide a Model GVU-NO₂ nitrogen dioxide (NO₂) sensor(s) as located on the drawings. The remote NO₂ sensor shall utilize an electro-chemical element and have range of 0-10 ppm. The sensor shall be housed in an impact-resistant, non-flammable, IP66 rated housing. The sensor response time shall reach 90% of level being sensed within 30 seconds. The sensor shall be powered by low voltage from the GVU-6 control unit and have a self check capability and an LED to indicate sensor okay.
- 2. The sensor shall be Model GVU-NO₂ as manufactured by Toxalert International.

E. CARBON DIOXIDE SENSOR

- 1. Provide a Model GVU-CO₂ remote carbon dioxide (CO₂) sensor(s) as located on the drawings. The remote CO₂ sensor shall utilize a non-dispersive infrared optical sensor cell for long life and accurate, stable CO₂ sensing. The CO₂ sensor range shall be 0 – 2000 ppm and shall be powered by low voltage from the GVU- 6 control unit. Sensor repeatability shall be 20 ppm, power consumption less than 2.5 watts, and accuracy of 5% of reading.
- 2. The sensor shall be Model GVU-CO₂ as manufactured by Toxalert International.

F. DIESEL EXHAUST SMOKE SENSOR

- 1. Provide a Model GVU-VOC diesel exhaust smoke sensor(s) as located on the drawings. The sensor shall be capable of monitoring multiple air contaminants and smoke in diesel engine exhaust. The sensor shall utilize a solid state sensing element, be microprocessor based, have 10 bit resolution, and be both

temperature and humidity compensated for long life and stability. Sensor shall have internal light emitting diodes (LED") for visual indication of air quality and shall have four (4) adjustable setpoints.

2. The sensor shall be Toxalert Model GVU-VOC as manufactured by Toxalert International.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install per manufacturers instructions.
- B. Coordinate electrical requirements with electrical contractor.

END OF SECTION