



Department of Administrative Services Purchasing and Contracts

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CLARK COUNTY, NEVADA BID NO. 603101-13 FIRE STATION NO. 16

October 7, 2013

ADDENDUM NO. 1

Any questions received after October 14, 2013 will not be considered.

INVITATION TO BID

1. The Bid Opening date of October 11, 2013 at 2:15:00 p.m. **has been change to October 21, 2013.**

SPECIFICATIONS

2. At Table of Contents, Division 23: **Add** Section 235533 Fuel-Fired Unit Heaters.
3. At Table of Contents, Division 01: **Add** Section 013516 Alteration Project Procedures.
4. At Section 013553 Security Procedures: **Remove** section in its entirety and **replace** with attached Section 013553 Security Procedures.
5. **Insert** attached Section 01 35 16 Alteration Project Procedures.
6. At Section 051200 Structural Steel Framing, paragraph 3.2: **Delete** sub-paragraph 3.2.A.4, regarding contractor engaging a qualified testing and inspection agency.
7. At Section 075416 Ethylene Interpolymer (KEE) Roofing, paragraph 3.9 Field Quality Control: **Delete** sub-paragraph A and A.1, regarding testing agency and EFVM.
8. At Section 086223 Tubular Daylighting Device, paragraph 2.2.B.5: **Delete** sub-paragraph 2.2 B.5.b, and its sub-paragraphs 1) and 2), regarding lower glazing with integral 2-piece aluminum/zinc allow coated steel fixture mounting ring.
9. At Section 088000 Glazing, paragraph 2.9B "Glass Type GL-2": **Remove** the description, "Low-E coated laminated, clear insulating glass", and **replace** with, "Low-E coated, tinted insulating glass".
10. At Section 096566 Resilient Athletic Flooring, paragraph 2.1.A: **Remove** the words "Mondo America", and **replace** with ECOearth resilient flooring by ECOsurfaces".
11. At Section 096566 Resilient Athletic Flooring, paragraph 2.1.A: **Add** the following company between item 12 "Sport Court" and item 13 "or approved equal": "item 12a. Mondo America".
12. At Section 096566 Resilient Athletic Flooring, paragraph 2.1.E: **Delete** entire sentence, and **replace** with, "Tile Size: 36-inch x 36-inch".
13. **Insert** attached Section 23 55 33 Fuel-Fired Unit Heaters. This section clarifies equipment called out on the mechanical drawings.
14. At Section 105143 Wire Mesh Lockers, paragraph 2.2 Turnout Gear Lockers: **Delete** sub-paragraph A, A.1, A.1.a, and A.1.b, regarding mobile units.

BOARD OF COUNTY COMMISSIONERS

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15. At Section 323116 Slide Gate Openers, AC and DC current operators are acceptable: Where it says "DC", **add** the words, "or AC".
16. At Appendix C Johnson Controls: **Remove** pages 1, 2, and 3; and **replace** with attached, "Addendum No. 1: Appendix C, pages 1-3".

DRAWINGS

17. At sheet C1.00 (Civil) Coversheet, Estimated Quantities Table: **Delete** item 20, "RETAINING WALL, 10,048 square feet".
18. At sheet A0.10 Exiting/Life Safety Plan, Detail 5, where it reads, "1 HOUR RATED CEILING CONSTRUCTION. RE: REFLECTED CEILING PLAN AND DETAIL 21/A9.01": **Remove**, "detail 21/A9.01", and **replace** with, "detail 16/A9.02".
19. At sheet A0.20 Room Finish Schedule, Material Finish Legend, ST2 location: ST2 is located at designated window sills only; refer to Door and Window details. Therefore, at "Location", **delete** the words, "COUNTER TOPS AND...".
20. At sheet A0.20 Room Finish Schedule, Material Finish Legend, SC (sealed concrete): **Add** the note, "DENSIFIER REQUIRED; RE – SPECIFICATIONS".
21. The intent of wall finishes at all Toilet and Toilet/Shower rooms is to be WT1 at all walls except for the shower pans and surrounds, which are to be SS1. Therefore, at sheet A0.20 Room Finish Schedule:
 - Room 102 Public Toilet walls: **Remove** "PT4", and **replace** with "WT1".
 - Room 111 Toilet walls: **Remove** "PT2", and **replace** with "WT1".
 - Room 112 Shower 3 north and south walls: **Remove** "PT2", and **replace** with "WT1/SS1".
 - Room 112 Shower 3 east wall: **Remove** "PT2", and **replace** with "WT1".
 - Room 112 Shower 3 west wall: **Remove** "PT2", and **replace** with "SS1".
 - Room 121 Shower 2 north and south walls: **Remove** "PT2", and **replace** with "WT1/SS1".
 - Room 121 Shower 2 east wall: **Remove** "PT2", and **replace** with "SS1".
 - Room 121 Shower 2 west wall: **Remove** "PT2", and **replace** with "WT1".
 - A0.20 Room Finish Schedule: Room 113 Toilet/Shower 3 north, east, and west walls: **Remove** "PT2", and **replace** with "WT1/SS1".
 - Room 113 Toilet/Shower 3 south wall: **Remove** "PT2", and **replace** with "WT1".
 - Room 122 Toilet walls: **Remove** "PT4", and **replace** with "WT1".
 - Room 136 Toilet/Shower 1 north wall: **Remove** "PT4", and **replace** with "WT1".
 - Room 136 Toilet/Shower 1 south, east, and west walls: **Remove** "PT4", and **replace** with "WT1/SS1".
22. At sheet A02.0 Room Finish Schedule, Room 132 Custodial north and east walls: In addition to PT3, **add** "WT1".
23. At sheet A02.0 Room Finish Schedule, Room 137 Custodial south and east walls: In addition to PT3, **add** "WT1".
24. At sheet A0.30 Door Schedule, Window Types: At the window type D with a 4'-0" R.O., **Remove** the window type callout "D" with **replace** with window type callout "D1".
25. At sheet A0.30 Door Schedule, Door Types: At the door type D, **delete**, "INSULATING GLASS UNIT – RE: SPECIFICATIONS".
26. At sheet A0.30 Door Schedule, Door 134, Hardware Group: **Remove** hardware group "24", and **replace** with hardware group "15".
27. At sheet A0.30 Door Schedule, Door 134, Fire Rating: **Insert**, "45M".

28. At sheet A0.30 Door Schedule, Door 135, Hardware Group: **Remove** hardware group "24", and **replace** with hardware group "15".
29. At sheet A0.30 Door Schedule, Door 135, Fire Rating: **Insert**, "45M".
30. At sheet A1.00 Site Plan, Note 3 regarding salted concrete: **Delete**, "RE: CIVIL DRAWINGS".
31. At sheet A2.01 Floor Plan, Kitchen 107, Window B: **Remove** the callout for window type "B", and **replace** with the callout for window type "D1".
32. At sheet A2.02 Casework, Furniture, and Equipment Plan: At Equipment Schedule, EQ-6 Wall Mounted Lockers: **Remove** the description, and **replace** with "RE: SPECIFICATIONS".
33. At sheet A2.02 Casework, Furniture, and Equipment Plan: At Equipment Schedule, EQ-14 Range: **Remove** the model number "C60SS-8FT24", and **replace** with "60SS-6B24GN, or approved equal".
34. At sheet A2.02 Casework, Furniture, and Equipment Plan: At Equipment Schedule, EQ-17 Dishwasher: **Remove** the model number "KUDC20CVSS", and **replace** with "KUDC 10 FXSS, or approved equal".
35. At sheet A2.02 Casework, Furniture, and Equipment Plan: At Equipment Schedule, EQ-33 Tack Wall: **Add** the description, "or approved equal. Dimensions approx. 11'-11" wide x 9'-0" tall; field verify to fit the wall. Standard color to be selected by Architect".
36. At sheet A2.02 Casework, Furniture, and Equipment Plan, at the Captains Office 133: **Delete** elevation callouts "6/A5.02 and 11/A5.02".
37. At sheet A2.21 Enlarged Floor Plans, Detail 6, Toilet/Shower 3 room 113, interior elevation callout: **Remove** callout 18/A5.03 and **replace** with callout 20/A5.03.
38. At sheet A5.02 Interior Elevations, Room 102 Public Toilet: **Remove** callouts "CT1", and **replace** with callout "WT1".
39. At sheet A5.03 Interior Elevations, Detail 7: **Remove** the title, "TYPICAL JANITOR", and **replace** with the title, "TYPICAL CUSTODIAL".
40. At sheet A5.03 Interior Elevations, Detail 9: At the mirror shown **insert** the callout, "TA-09".
41. At sheet A5.03 Interior Elevations, Detail 18: At the accessories shown **insert** the callouts, "TA-11 and TA-06".
42. At sheet A5.03 Interior Elevations, Rooms 111 Toilet, 112 Shower 3, 113 Toilet/Shower 3, and 136 Toilet/Shower 1: **Remove** callouts "CT1", and **replace** with callout "WT1".
43. At sheet A7.01 Building Sections, Detail 6, detail callout 21/A7.11 at front entry: **Remove** callout "21/A7.11" and **replace** with callout "16/A7.11".
44. At sheet A7.01 Building Sections, Detail 6, Dorm Room 5 (114) and Dorm Room 6 (117): As referenced elsewhere in the documents, **revise** ceiling to reflect a 1-hour rated ceiling in accordance with detail 16/A9.02.
45. At sheet A7.02 Building Sections, Detail 3, Dorm Room 3 (115) and Dorm Room 4 (116): As referenced elsewhere in the documents, **revise** ceiling to reflect a 1-hour rated ceiling in accordance with detail 16/A9.02.
46. At sheet A7.10 Partition Types, Detail 14: **Remove** callout, "16/A7.10", and **replace** with callout, "16/A9.02".
47. At sheet A7.11 Wall Sections: **Remove** the note, "R-38 BATT INSULATION", and **replace** with the note, "R-30 BATT INSULATION".

48. At sheet S1.00 Foundation Plan, grid line 6: **Delete** the note, "PAVERS – REFER TO CIVIL".
49. At sheet MG1.01 Mechanical Schedules, Louver Schedule, Comments: **Remove** the note, "FINISH PER ARCHITECTURAL RECOMMENDATIONS", and **replace** with "FINISH TO BE CLEAR ANODIZED ALUMINUM, PER ARCHITECT".
50. At sheet E3.02 Electrical Alarm System, Item 1.1.1 Locution Responsibilities: **Add** the note, "Locution responsibilities will be paid for by Owner, and coordinated by Contractor".

CLARIFICATIONS THAT DO NOT MODIFY THE BID DOCUMENTS

51. QUESTION: Provide manufacturer/specification for hose rack.
RESPONSE: Hose rack is a built item; therefore, manufacturer/specifications are not provided. Refer to sheet A9.01, Detail 1.
52. QUESTION: Regarding Section 105143 Wire Mesh Lockers warranty.
RESPONSE: Provide 10-year warranty, per specifications.
53. QUESTION: Is a facing required on batt insulation at roof and exterior walls?
RESPONSE: Facing is not required.
54. QUESTION: Specifications do not identify what type of rigid insulation goes at exterior walls. Based only on R-value and thickness, it appears to be polyiso board. Please confirm. RESPONSE: Confirmed; note that polyiso board is the only rigid insulation specified in the specifications; refer to Sections 072100 Thermal Insulation, and 075416 (KEE) Roofing.
55. QUESTION: What is the extent of sound insulation at the ceiling line (shown on A7.10 adjacent to wall type C)?
RESPONSE: The insulation is required for the entire extent of the ceiling for Wall type C/A7.10.
56. QUESTION: The south wall in the Day Room is identified as type B3 "Typ. (UNO)". Is this typical for the whole building or just for that area of the building?
RESPONSE: This is typical for the entire building.
57. QUESTION: Will a burial or saw cut loop be needed for the gate opening?
RESPONSE: Buried loop wire is required; refer to sheet ES1.01.
58. QUESTION: Please clarify what type of card reader/key pad is needed.
RESPONSE: Refer to Appendix C: Johnson Controls, Inc.
59. QUESTION: A pedestrian gate is required to meet the UL 325 code when a slide gate and foot traffic are present. There is not a pedestrian gate shown on the site plan next to the slide gate. Should the pedestrian gate be needed, the egress gate hardware will need to be indicated. RESPONSE: A pedestrian gate is not required. However, there is a pedestrian gate (Door 143) at the exterior patio, near the slide gate.
60. QUESTION: Is a water softener part of the project/bid documents?
RESPONSE: Water softener is not part of the project/bid documents, and therefore, there are no specifications provided.
61. QUESTION: Confirm that the Contractor is to Supply and Install the Lockers (EQ-6 on A2.02) as called on the drawings.
RESPONSE: EQ-6 (Wall Mounted Lockers) are to be contractor furnished and contractor installed.
62. QUESTION: Roller shade (WS3-3% charcoal/fall-hazelnut) is no longer available. Please provide an alternate available product.
RESPONSE: According to the manufacturer and distributor T screen 3% charcoal/fall-hazelnut is available.

63. QUESTION: Designation YD-1 is shown on the east side of the mechanical yard. This designation is not shown on plumbing fixture schedule. Please provide clarification.
RESPONSE: Refer to sheet P2.01, detail A.
64. QUESTION: The North Elevation (Detail 8/A6.01) does not designate a note for the dark rectangle at Gridline 4.2. On the South Elevation (Detail 10/A6.02) There are two rectangles that are tagged with Key Note #33. There is direction to "Center Louver over doors; however, Key Note #33 is "Light Fixture – See Electrical Drawings". Please clarify these dark rectangles on all elevations.
RESPONSE: The items in question are mechanical louvers; refer to mechanical drawings.
65. QUESTION: NV Energy drawings show conduits under existing sidewalks as per section A. Century Link drawings section A and B show conduits are required 60" off backside of sidewalk. Please confirm that it is acceptable and approved to install Century Link conduits in NV Energy trench under sidewalk.
RESPONSE: Century Link and NVE are intended to be installed within a common trench. All conduits are to be installed within the existing easement. Survey the area to confirm easement boundaries. Detail AA and BB on the NVE drawings reference 6"C which are existing and installed under the sidewalk. The 4"C are proposed and to be installed by the contractor within the easement boundaries. Note that, per specifications, contractor is responsible to replace any landscape, sidewalk, asphalt, sub-base, etc. that is removed for the trenching of all utilities.

Except as modified herein all other bid specifications, terms and conditions and special conditions shall remain the same.

ISSUED BY:



SANDY MOODY-UPTON
Purchasing Analyst II

Attachments: Section 013516 Alteration Project Procedures
Section 013553 Security Procedures
Section 235533 Fuel-Fired Unit Heaters
Appendix C, pages 1-3

Cc: Coleen Lyum, Real Property Management
Jon Rappel, PGAL

SECTION 01 35 16

ALTERATION PROJECT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Products for patching and extending Work.
- B. Examination and Preparation.
- C. Installation.
- D. Transitions and Adjustments.
- E. Repair of damaged surfaces.
- F. Finishes and Cleaning.
- G. Trenching for utilities.

PART 2 PRODUCTS

2.01 PRODUCTS FOR PATCHING AND EXTENDING WORK

- A. New Materials: As specified in Product sections. Match existing Products and Work for patching and extending Work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing Products where necessary, referring to existing Work as a standard.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that demolition is complete and areas are ready for installation of new Work.
- B. Beginning of restoration Work means acceptance of existing conditions.

3.02 PREPARATION

- A. Cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.
- B. Remove unsuitable material not marked for salvage, such as rotted wood, corroded metals, and deteriorated masonry and concrete. Replace materials as specified for finished Work.
- C. Remove debris and abandoned items from area and from concealed spaces.
- D. Prepare surface and remove surface finishes to provide for proper installation of new work and finishes.
- E. Close openings in exterior surfaces to protect existing work from weather and extremes of temperature and humidity. Insulate ductwork and piping to prevent condensation in exposed areas.

3.03 INSTALLATION

- A. Coordinate work of alterations and renovations to expedite completion sequentially and to accommodate Owner occupancy.
- B. Remove, cut, and patch Work in a manner to minimize damage and to provide a means of restoring Products and finishes to original or specified condition.
- C. Refinish visible existing surfaces to remain in renovated rooms and spaces, to specified condition for each material with a neat transition to adjacent finishes.
- D. Recover and refinish exposed mechanical and electrical work exposed accidentally during the work.
- E. Install Products as specified in individual sections.
- F. Finishes at utility trenches shall be as specified. If no specification is given, then finish shall match the existing adjacent materials.

3.04 TRANSITIONS

- A. Where new Work abuts or aligns with existing, perform a smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.
- B. When finished surfaces are cut so that a smooth transition with new Work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Owner.

3.05 ADJUSTMENTS

- A. Where removal of partitions or walls results in adjacent spaces becoming one, rework floors, walls and ceilings to a smooth plane without breaks, steps, or bulkheads.
- B. Where a change of plane of 1/4 inch or more occurs, submit recommendation for providing a smooth transition for Architect's review.
- C. Trim existing doors as necessary to clear new floor finish. Refinish trim as required.

3.06 REPAIR OF DAMAGED SURFACES

- A. Patch or replace portions of existing surfaces that are damaged, lifted, discolored or showing other imperfections.
- B. Repair substrate prior to patching finish.

3.07 FINISHES

- A. Finish surfaces as specified in individual Product sections.
- B. Finish patches to produce uniform finish and texture over entire area. When finish cannot be matched, refinish entire surface to nearest intersections.

3.08 CLEANING:

- A. In addition to cleaning specified in Section 01 74 00, clean owner-occupied areas of work immediately adjacent to renovation area and any other owner-occupied areas affected by renovation work.

END OF SECTION

SECTION 01 35 53

SECURITY PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Security Program.
- B. Entry Control.

1.02 SECURITY PROGRAM

- A. At all times, conduct operations under the Contract Documents to avoid unauthorized entry and to avoid the risk of loss, theft, or damage by vandalism, sabotage, or other means to the Work or Owner's operations.
- B. At Project mobilization, initiate a security program to protect Work and Owner's operations from unauthorized entry or a risk of loss, theft, or damage to Contractor's property, Owner's property, and the Project Site.
- C. Promptly take all reasonable precautions that are necessary and adequate against any conditions that involve unauthorized entry or a risk of loss, theft, or damage to Contractor's property, Owner's property, and the Project Site.
- D. Continuously inspect Work, materials, equipment, and facilities to discover and determine any such conditions and be solely responsible for discovery, determination, and correction of any such condition.
- E. Cooperate with Owner on all security matters and promptly comply with any Project security requirements established by Owner. Such compliance with these security requirements shall not:
 - 1. Relieve Contractor of Contractor's responsibility for maintaining proper security for the above noted items.
 - 2. Be construed as limiting in any manner Contractor's obligation to undertake reasonable action as required to establish and maintain secure conditions at the Site.
- F. Prepare and maintain accurate reports of incidents of loss, theft, or vandalism and furnish these reports to Owner within 24 hours. Date of the report shall not be later than 24 hours after the event or discovery of the event.
- G. Contractor shall be responsible for all interim security removed due to project construction.
- H. Where project site security fence ties in to the adjacent site fence, the security procedures of the project site shall also apply to that connection.

PART 2 PRODUCTS

2.01 CONSTRUCTION SECURITY FENCE

- A. Provide perimeter fence around the construction site if outside of the secured interior of the project area:
 - 1. Fence: Commercial grade 6-foot high chain link panelized fence equipped with vehicle gates.
 - 2. Gates shall have locks.

3. Fence shall be supported by posts, which are staked 2-feet in the ground. Sandbags shall not be used for fence support.
4. Shop drawings are required for review by Owner prior to installation.

PART 3 EXECUTION

3.01 ENTRY CONTROL

- A. Install and maintain a perimeter fence around the construction site if outside of the secured interior of the project area.
- B. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.
- D. Employ a uniformed guard service to provide watchmen at site during non-working hours, through Substantial Completion.

END OF SECTION

SECTION 235533

FUEL-FIRED UNIT HEATERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes gas-fired unit heaters.

1.3 SUBMITTALS

- A. Product Data: For each type of fuel-fired unit heater indicated. Include rated capacities, operating characteristics, and accessories.
- B. Shop Drawings: For fuel-fired unit heaters. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Prepared by or under the supervision of a qualified professional engineer detailing fabrication and assembly of fuel-fired unit heaters, as well as procedures and diagrams.
 - 2. Design Calculations: Calculate requirements for selecting vibration isolators and seismic restraints and for designing vibration isolation bases.
 - 3. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 4. Wiring Diagrams: Power, and control wiring.
- C. Coordination Drawings: Plans, elevations, and other details, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
 - 1. Structural members to which equipment will be attached.
 - 2. Items penetrating wall and the following:
 - a. Vent and gas piping rough-ins and connections.
- D. Manufacturer Seismic Qualification Certification: Submit certification that fuel-fired unit heaters, accessories, and components will withstand seismic forces defined in Division 23 Section "Vibration and Seismic Controls for HVAC Piping and Equipment." Include the following:

SECTION 235533

FUEL-FIRED UNIT HEATERS

1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
 - b. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."
 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- E. Field quality-control test reports.
- F. Operation and Maintenance Data: For fuel-fired unit heaters to include in emergency, operation, and maintenance manuals.
- G. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. ASHRAE/IESNA 90.1-2004 Compliance: Applicable requirements in ASHRAE/IESNA 90.1-2004, Section 6 - "Heating, Ventilating, and Air-Conditioning."

1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace heat exchanger of fuel-fired unit heater that fails in materials or workmanship within specified warranty period.
 1. Warranty Period: Two years from date of Substantial Completion.

SECTION 235533

FUEL-FIRED UNIT HEATERS

PART 2 - PRODUCTS

2.1 GAS-FIRED UNIT HEATERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
1. Lennox Industries, Inc.
 2. Modine Manufacturing Company.
 3. Reznor/Thomas & Betts Corporation.
 4. Roberts-Gordon LLC.
 5. Sterling HVAC Products; Div. of Mestek Technology Inc.
- B. Description: Factory assembled, piped, and wired, and complying with ANSI Z83.8/CSA 2.6.
- C. Fuel Type: Design burner for natural gas having characteristics same as those of gas available at Project site.
- D. Type of Venting: Indoor, separated combustion, power vented.
- E. Housing: Steel, with integral draft hood and inserts for suspension mounting rods.
1. External Casings and Cabinets: Baked enamel over corrosion-resistant-treated surface.
 2. Suspension Attachments: Reinforce suspension attachments at connection to fuel-fired unit heaters.
 - a. Seismic Fabrication Requirements: Fabricate suspension attachments of fuel-fired unit heaters, accessories mountings, and components with reinforcement strong enough to withstand seismic forces defined in Division 23 Section "Vibration and Seismic Controls for HVAC Piping and Equipment" when fuel-fired unit heater is anchored to building structure.
- F. Heat Exchanger: Aluminized steel.
- G. Burner Material: Aluminized steel with stainless-steel inserts.
- H. Unit Fan: Formed-steel propeller blades riveted to heavy-gage steel spider bolted to cast-iron hub, dynamically balanced, and resiliently mounted.
1. Fan-Blade Guard: Galvanized steel, complying with OSHA specifications, removable for maintenance.
 2. General requirements for motors are specified in Division 23 Section "Common Motor Requirements for HVAC Equipment."

SECTION 235533

FUEL-FIRED UNIT HEATERS

- a. Motors: Totally enclosed with internal thermal-overload protection and complying with Division 23 Section "Common Motor Requirements for HVAC Equipment."
 - b. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
 - c. Controllers, Electrical Devices, and Wiring: Electrical devices and connections are specified in Division 26 Sections.
- I. Unit Fan: Steel, centrifugal fan dynamically balanced and resiliently mounted.
1. Direct Drive Assembly: Resiliently mounted to housing, with the following features:
 - a. Fan Shaft: Turned, ground, and polished steel; keyed to wheel hub.
 - b. Shaft Bearings: Permanently lubricated, permanently sealed, self-aligning ball bearings.
 2. General requirements for motors are specified in Division 23 Section "Common Motor Requirements for HVAC Equipment."
 - a. Motors: Totally enclosed with internal thermal-overload protection and complying with Division 23 Section "Common Motor Requirements for HVAC Equipment."
 - b. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
 - c. Controllers, Electrical Devices, and Wiring: Electrical devices and connections are specified in Division 26 Sections.
- J. Controls: Regulated redundant gas valve containing pilot solenoid valve, electric gas valve, pilot filter, pressure regulator, pilot shutoff, and manual shutoff all in one body.
1. Gas Control Valve: Single stage.
 2. Ignition: Electronically controlled electric spark with flame sensor.
 3. Fan Thermal Switch: Operates fan on heat-exchanger temperature.
 4. Vent Flow Verification: Flame rollout switch.
 5. Control transformer.
 6. High Limit: Thermal switch or fuse to stop burner.
 7. Thermostats: Devices and wiring are specified in Division 23 Section "Instrumentation and Control for HVAC."
 8. Thermostat: Single-stage, wall-mounting type with 50 to 90 deg F (10 to 32 deg C) operating range and fan on switch.
- K. Discharge Louvers: Independently adjustable horizontal blades.
- L. Accessories:
1. Four-point suspension kit.

SECTION 235533

FUEL-FIRED UNIT HEATERS

2. Concentric, Terminal Vent Assembly: Combined combustion-air inlet and power-vent outlet with wall or roof caps. Include adapter assembly for connection to inlet and outlet pipes, and flashing for wall or roof penetration.
- M. Capacities and Characteristics:
1. Refer to schedule on Drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install and connect gas-fired unit heaters and associated fuel and vent features and systems according to NFPA 54, applicable local codes and regulations, and manufacturer's written installation instructions.
- B. Suspended Units: Suspend from substrate using threaded rods, spring hangers, and building attachments. Secure rods to unit hanger attachments. Adjust hangers so unit is level and plumb.
 1. Restrain the unit to resist code-required horizontal acceleration.
- C. Substrate-Mounted Units: Provide supports connected to substrate. Secure units to supports.
 1. Spring hangers and seismic restraints are specified in Division 23 Section "Hangers and Supports for HVAC Piping and Equipment."
 2. Anchor the unit to resist code-required horizontal acceleration.

3.2 CONNECTIONS

- A. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to fuel-fired unit heater to allow service and maintenance.
- C. Gas Piping: Comply with Division 23 Section "**Facility Natural-Gas Piping**" Connect gas piping to gas train inlet; provide union with enough clearance for burner removal and service.
- D. Vent Connections: Comply with Division 23 Section "Breechings, Chimneys, and Stacks."
- E. Electrical Connections: Comply with applicable requirements in Division 26 Sections.

SECTION 235533

FUEL-FIRED UNIT HEATERS

1. Install electrical devices furnished with heaters but not specified to be factory mounted.

3.3 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.
 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- B. Tests and Inspections:
 1. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 2. Verify bearing lubrication.
 3. Verify proper motor rotation.
 4. Test Reports: Prepare a written report to record the following:
 - a. Test procedures used.
 - b. Test results that comply with requirements.
 - c. Test results that do not comply with requirements and corrective action taken to achieve compliance with requirements.
- C. Remove and replace malfunctioning units and retest as specified above.

3.4 ADJUSTING

- A. Adjust initial temperature set points.
- B. Adjust burner and other unit components for optimum heating performance and efficiency.

3.5 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain fuel-fired unit heaters. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 235533



Johnson Controls Inc.
 3645 W. Oquendo Road, Suite 100
 Las Vegas, NV 89118
 702-598-3488 office
 702-364-0184 fax
 C-2 license #52022 unlimited

**ADDENDUM NO. 1:
APPENDIX C, PAGE 1**

09/16/2013

PROJECT: Clark County Fire Station #16 Security System, Las Vegas, Nevada

The following is the scope of work and pricing to furnish and install the security system Fire Station #16 per drawings E3.01 and ES1.01 dated December 12, 2012 and specifications provided by Clark County.

Scope Definition:

Johnson Controls shall provide the P2000 access control system field panels, contactless proximity card readers, panels and associated security system hardware. Johnson Controls will coordinate with the County to have these additional readers programmed on the County’s P2000 head end system.

The following is included in our system scope of work based on current prevailing wages:

| Mfr | Part # | Description | QTY |
|---|-------------|--|-----|
| JCI | CK721 | Access Control Reader Control panels | 1 |
| JCI | RDR 232 A | Door Control Panel | 4 |
| HID | R 40 | Contactless Card Reader / Single Pedestrian Door | 4 |
| HID | R 40K | Contactless Card Reader with keypad / Single Pedestrian Door | 1 |
| HID | R90 | Contactless Card Reader / Long range, vehicle gate | 1 |
| HID | MCHR90WAH | Spacer for R90 Reader | 1 |
| HID | AH1414062PP | Housing for R90 Reader | 1 |
| JCI | Relay | Relay for connection to contractor provided gate motor and or gate | 1 |
| JCI | Cable | Provide Cable and Install in contractor provided conduit with pull strings | 1 |
| Access Control System Component Engineering and Project Management | | | |
| Software. Programming, Start up commissioning | | | |
| Device mounting, Installation and connection to cable from each field device to the access control panel(s) | | | |
| Connection to Contractor supplied and installed electronic locking door hardware | | | |
| Coordination with the electrical contractor for access control wire installation | | | |
| Coordination with RPM, Device , Installation , verification, hardware configuration | | | |
| Pre-testing and final testing with the electrical contractor and owner | | | |
| O&Ms and project close-out documentation | | | |
| 4 Hours of owner training | | | |

Johnson Controls, Inc. shall perform the preceding scope of work for the sum of:

Forty Nine Thousand, Eight Hundred, Seventy One Dollars: \$49,871.00



**ADDENDUM NO. 1:
APPENDIX C, PAGE 2**

Johnson Controls Inc.
3645 W. Oquendo Road, Suite 100
Las Vegas, NV 89118
702-598-3488 office
702-364-0184 fax
C-2 license #52022 unlimited

PROJECT: Clark County Fire Station #16 Security System, Las Vegas, Nevada

Qualifications:

- All 120vac power and associated plans and permits to be provided by the contractor.
- All conduit and associated material, including pull strings, to be provided and installed by the contractor.
- Plywood back board for security panels to be provided and installed by the contractor
- JCI will coordinate the connection of the access control system to all electric locking door hardware, associated equipment and power supplies provided and installed by the contractor.
- Site work, trenching, excavation, and associated backfill, patchwork and concrete shall be provided by the General Contractor.
- Work to be performed during normal working hours of Monday thru Friday 7am to 4pm, excluding weekends and holidays.
- All coordination with the Local AHJ is to be provided by the contractor
- All communications for signal transmission to the Clark County Government Center head end access control server including lines, hardware software and coordination shall be provided the owner.

This proposal and alternates listed below are hereby accepted and Johnson Controls is authorized to proceed with the work; subject, however, to credit approval by Johnson Controls, Inc., Milwaukee, Wisconsin. This proposal is valid for 60 days.

Purchaser: _____
Name: _____
Title: _____
Date: _____
Signature: _____

Johnson Controls, Inc.
Name: Mark Thummel
Title: Account Executive
Date: 09-16-2013
Signature: Mark Thummel



**ADDENDUM NO. 1:
APPENDIX C, PAGE 3**

Johnson Controls Inc.
3645 W. Oquendo Road, Suite 100
Las Vegas, NV 89118
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TERMS AND CONDITIONS

By accepting this proposal, Purchaser agrees to be bound by the following terms and conditions:

1. **SCOPE OF WORK.** This proposal is based upon the use of straight time labor only. Plastering, patching and painting are excluded. "in-line" duct and piping devices, including, but not limited to, valves, dampers, humidifiers, wells, taps, flow meters, orifices, etc., if required hereunder to be furnished by Johnson, shall be distributed and installed by others under Johnson's supervision but at no additional cost to Johnson. Purchaser agrees to provide Johnson with required field utilities (electricity, toilets, drinking water, project hoist, elevator service, etc.) without charge. Johnson agrees to keep the job site clean of debris arising out of its own operations. Purchaser shall not back charge Johnson for any costs or expenses without Johnson's written consent.

Unless specifically noted in the statement of the scope of work or services undertaken by JCI under this agreement, JCI's obligations under this agreement expressly exclude any work or service of any nature associated or connected with the identification, abatement, clean up, control, removal, or disposal of environment Hazards or dangerous substances, to include but not be limited to asbestos or PCBS, discovered in or on the premises. Any language or provision of the agreement elsewhere contained which may authorize or empower the Purchaser to change, Modify, or alter the scope of work or services to be performed by JCI shall not operate to compel JCI to perform any work relating to Hazards without JCI's express written consent.
2. **INVOICING & PAYMENTS.** Johnson may invoice Purchaser monthly for all materials delivered to the job site or to an off-site storage facility and for all work performed on-site and off-site. Purchaser shall pay Johnson at the time purchaser signs this agreement an **advance payment equal to 20% of the contract price**, which advance payment shall be credited against the final payment (but not any progress payment) due hereunder and purchaser agrees to pay Johnson additional amounts invoiced upon receipt of the invoice. Waivers of lien will be furnished upon request, as the work progresses; to the extent payments are received. If Johnson's invoice is not paid within 30 days of its issuance, it is delinquent.
3. **MATERIALS.** If the materials or equipment included in this proposal become temporarily or permanently unavailable for reasons beyond the control and without the fault of Johnson, then in the case of such temporary unavailability, the time for performance of the work shall be extended to the extent thereof, and in the case of permanent unavailability, Johnson shall (a) be excused from furnishing said materials or equipment, and (b) be reimbursed for the difference between the cost of the materials or equipment permanently unavailable and the cost of a reasonably available substitute therefor.
4. **WARRANTY.** Johnson warrants that the equipment manufactured by it shall be free from defects in material and workmanship arising from normal usage for a period of one (1) year from delivery of said equipment, or if installed by Johnson, for a period of one (1) year from installation. Johnson warrants that for equipment furnished and/or installed but not manufactured by Johnson, Johnson will extend the same warranty terms and conditions which Johnson receives from the manufacturer of said equipment. For equipment installed by Johnson, if Purchaser provides written notice to Johnson of any such defect within thirty (30) days after the appearance or discovery of such defect, Johnson shall, at its option, repair or replace the defective equipment. For equipment not installed by Johnson, if Purchaser returns the defective equipment to Johnson within thirty (30) days after appearance or discovery of such defect, Johnson shall, at its option, repair or replace the defective equipment and return said equipment to Purchaser. All transportation charges incurred in connection with the warranty for equipment not installed by Johnson shall be borne by Purchaser. This warranties@o not extends to any equipment which has been repaired by others, abused, altered or misused, or which has not been properly and reasonably maintained. **THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE.**
5. **LIABILITY.** Johnson shall not be liable for any special, indirect or consequential damages arising in any manner from the equipment or material furnished or the work performed pursuant to this agreement.
6. **TAXES.** The price of this proposal does not include duties, sales, use, excise, or other similar taxes, unless required by federal, state or local law. Purchaser shall pay, in addition to the stated price; all taxes not legally required to be paid by Johnson or, alternatively, shall provide Johnson with acceptable tax exemption certificates. Johnson shall provide Purchaser with any tax payment certificate upon request and after completion and acceptance of the work.
7. **DELAYS.** Johnson shall not be liable for any delay in the performance of the work resulting from or attributed to acts or circumstances beyond Johnson's control, including, but not limited to, acts of God, fire, riots, labor disputes, conditions of the premises, acts or omissions of the Purchaser, Owner, or other Contractors or delays caused by suppliers or subcontractors of Johnson, etc.
8. **COMPLIANCE WITH LAWS.** Johnson shall comply with all applicable federal, state and local laws and regulations and shall obtain all temporary licenses and permits required for the prosecution of the work. Licenses and permits of a permanent nature shall be procured and paid for by the Purchaser.
9. **DISPUTES.** All disputes involving more than \$15,000 shall be resolved by arbitration in accordance with the rules of the American Arbitration Association. The prevailing party shall recover all legal costs and attorney's fees incurred as a result. Nothing here shall limit any rights under construction lien laws.
10. **INSURANCE.** Insurance coverage in excess of Johnson's standard limits will be furnished when requested and required. No credit will be given or premium paid by Johnson for insurance afforded by others.
11. **INDEMNITY.** The Parties hereto agree to indemnify each other from any and all liabilities, claims, expenses, losses or damages, including attorneys' fees, which may arise in connection with the execution of the work herein specified and which are caused, in whole or in part, by the negligent act or omission of the-indemnifying Party.
12. **OCCUPATIONAL SAFETY AND HEALTH.** The Parties hereto agree to notify each other immediately upon becoming aware of an inspection under, or any alleged violation of, the Occupational Safety and Health Act relating in any way to the project or project site.
13. **EntIRE AGREEMENT.** This proposal, upon acceptance, shall constitute the entire agreement between the parties and supersedes any prior representations or understandings.
14. **CHANGES.** No change or modification of any of the terms and conditions stated herein shall be binding upon Johnson unless accepted by Johnson in writing.