

## ADDENDUM TWO

Issue Date: April 30, 2024

### Project Information

Client: the Abla Griffin Partnership  
Project Name: HVAC Replacement – Kingsgate Elementary School  
Project Location: 1400 Kingsgate Rd, Oklahoma City, OK 73159  
Owner: Moore Public Schools  
Engineer: Salas O'Brien, LLC  
  
Project No. 2024-01144-00



### To Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated March 14, 2024, (and previous Addendum), with amendments and additions noted below.

This Addendum consists of TWO (2) pages and ONE (1) attachment.

- Attachment: E-301

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

### CHANGES TO BIDDING REQUIREMENTS

#### Fire Alarm System

- In addition to the new carbon monoxide (CO) detectors and duct smoke detectors for new HVAC equipment as specified on sheets M-102 and M-601, provide bid for replacing the following SD devices as identified by MPS IT Department with SK devices specified on new Sheet E-301:
  - 41 smoke detectors
  - 5 heat detectors
  - 5 duct smoke detectors
  - 12 fire pulls
  - 37 input modules
- Exact locations of devices to be coordinated in field.
- Return all replaced SD devices to MPS IT Department



## **CHANGES TO THE DRAWINGS**

*Revisions have been made to the following drawings and are issued in the form of full-size plans. Edits are indicated by a revision delta and a cloud surrounding the affected portion of the drawing.*

Sheet E-301 – Sheet Specifications – Fire Alarm

- New sheet with Moore Public Schools Fire Alarm Specifications and Requirements.

**END OF ADDENDUM TWO**



SCE  
drawn by  
AL  
checked by  
MARCH 2024  
date

revisions  
4/30/24 ADDENDUM 2

MOORE PUBLIC SCHOOLS  
BOARD OF EDUCATION  
MOORE, OKLAHOMA



HVAC REPLACEMENT  
KINGSGATE  
ELEMENTARY SCHOOL

sheet no:

## E-301

OWNERSHIP USE OF DOCUMENTS:  
AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.

SYSTEMS SPECIFICATIONS	
<b>Moore Public Schools Fire System Specifications SK &amp; SD Protocol</b>	
<b>Part 1 - General</b>	
<b>2.01 Manufacturers</b>	
<ul style="list-style-type: none"> <li>Fire System Manufacturer shall be Silent Knight. (No Substitutions)</li> <li>Notification Appliance Manufacturer shall be System Sensor. (No Substitutions)</li> <li>Device Manufacturer shall be as specified in equipment description. (No Substitutions)</li> <li>Cable Manufacturer shall be Genesis. (Or Equivalent)</li> </ul>	
<b>1.03 Fire Systems Equipment Description</b>	
<p><b>NOTE:</b> Contractor shall use SK Protocol devices on all new installations except when the existing system has SD protocol devices connected. In these instances, SD protocol devices shall be used. Contractor shall not combine SD &amp; SK protocol devices to one system.</p> <ul style="list-style-type: none"> <li>Fire alarm control shall be Silent Knight Model # 5520 or 6520. (No Substitutions)</li> <li>Fire alarm distributed power module NAC Expansion shall be Silent Knight SK-PS6 / SK-PS10 or Fire-Link Model # F-PS6 / F-PS10. (No Substitutions)</li> <li>Fire alarm intelligent power supply shall be Silent Knight Model # 585XL. (No Substitutions)</li> </ul> <p><b>NOTE:</b> The 585XL NAC circuits will not sync with the main control panels NAC circuits. If new NAC circuit synchronization is required with existing NAC circuits, use the SK-FS6FL-PS6 or SK-PS10FL-PS10</p> <ul style="list-style-type: none"> <li>Fire alarm remote Annunciator shall be Silent Knight Model # 5860 (Grey) and surface mount with the 5860T0 (Grey) shall be used if surface mounted. (No Substitutions)</li> <li>Fire Alarm signaling line circuit expander shall be Silent Knight Model # 5815XL for SD protocol devices &amp; 6815 for SK protocol devices. (No Substitutions)</li> </ul> <p><b>SK Protocol Devices Shall Be</b></p> <ul style="list-style-type: none"> <li>Fire alarm addressable manual pull station shall be Silent Knight Model # SK-PULL-DA. (No Substitutions)</li> <li>Fire alarm addressable photoelectric smoke detector shall be Silent Knight Model # SK-PHOTO-W. (No Substitutions)</li> <li>Fire alarm addressable heat detector shall be Silent Knight Model # SK-HEAT-W. (No Substitutions)</li> <li>Fire alarm base shall be Silent Knight Model # 6305L. (No Substitutions)</li> <li>Smoke Detectors in areas that require a CO Detector shall be SK-FRE-CO-W. (No Substitutions)</li> <li>Fire alarm addressable input module shall be Silent Knight Model # SK-MONITOR or SK-MONITOR-2. (No Substitutions)</li> <li>Fire alarm addressable relay module shall be a Silent Knight Model # SK-RELAY. (No Substitutions)</li> <li>Fire alarm SLC line isolator shall be Silent Knight Model # SK-ISO. (No Substitutions)</li> <li>Fire alarm Duct detectors and Duct Detector Remote Test Stations shall be Silent Knight Model # SK-DUCT and RTST15MEY. If a Form-C relay is required, please add an SK-RELAY. (No Substitutions)</li> </ul>	
<b>1.01 Systems Installation</b>	
<ul style="list-style-type: none"> <li>All fire alarm junctions and or splices shall be soldered and insulated.</li> <li>All Ceiling mounted devices shall be mounted on non-stainable ceiling tiles.</li> <li>All circuits and wiring shall be labeled at all terminating ends.</li> <li>All fire system wiring shall be RED in color and non-shielded.</li> <li>All devices shall be mounted according to the manufacturer's specifications.</li> <li>All devices shall be properly adjusted and tested prior to job completion.</li> <li>All fire pulls shall be dual action.</li> <li>All installing Devices shall be labeled with their corresponding module and point number. Smoke detector label shall be on smoke detector and smoke detector base and be clearly visible from the finished floor.</li> <li>Each Initiating Device Circuits (IDC) shall have Line Isolator Modules installed at the SLC Head End.</li> <li>All Initiating Device Circuits (IDC) shall be wired Class B (NFPA Style B).</li> <li>All Initiating Device Circuits (IDC) shall be wired with minimum 18 AWG gauge red <b>NON-Shielded cable</b>.</li> <li>All duct detectors shall be connected to the fire system and shall have remote test stations installed accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number.</li> <li>All duct detector ARM / AIM shall be installed adjacent to the remote test stations and shall be accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number. (ARM/AIM should not be needed when using SD505-DUCTR duct det.)</li> <li>Each CO 1224T detectors shall have an SD500 AIM installed (No ducting). All CO1224T &amp; SD500 AIM shall be labeled with their corresponding module and point number and shall be accessible and visible from the finished floor.</li> <li>All modules shall have their corresponding module number.</li> <li>All notification devices shall be wall mounted where possible. Where wire is exposed decorative wire molding shall be installed from the ceiling to the device. If ceiling mount devices are used, they shall be mounted on a non-stainable ceiling tile.</li> <li>All notification devices shall be labeled with their corresponding module, circuit number and device number. Label shall be on the base and be clearly visible from the finished floor. EOL Device shall be labeled as such.</li> <li>All horn / strobes and strobes shall be synchronized.</li> <li>All Notification Appliance Circuits (NAC) shall be wired Class B (NFPA Style Y).</li> <li>All Notification Appliance Circuits (NAC) shall be wired with minimum 16 AWG gauge red <b>NON-Shielded cable</b>.</li> <li>Protective grommets shall be installed on all conduits to protect wire.</li> <li>All SBUS and SLC circuits shall be wired with red <b>NON-shielded cable</b>.</li> <li>All wire shall be run in J hooks above ceiling with a minimum space of 6" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck.</li> <li>Main control panel shall have a CAT 6 cable run between the main control and the phone company DMARC for monitoring purposes.</li> <li>All wire run between building shall be in conduit and shall be <b>Non-shielded</b> direct burial cable. It shall be a minimum of 4 conductor 16 AWG copper.</li> <li>Installer shall have a commercial fire technician on the job site at all times during the installation.</li> <li>Installer shall supply the electrical and or masonry contractors with specialty back boxes such as remote annunciator recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.</li> </ul>	
<b>1.02 Products Installed but not Supplied Under This Section</b>	
<ul style="list-style-type: none"> <li>All conduit and EMT required for Fire calling pathway (in/out of closets and in/out of wall cavities at the work area. EMT or Conduit for pathways shall have no more than two 90-degree sweeps and no continuous section over 100'.</li> <li>All core holes and poke through devices in the floor for the installation of Fire calling.</li> <li>All core holes and EMT sleeves between floors for the routing of Fire calling.</li> <li>Back boxes for the mounting of Fire Devices.</li> <li>Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Fire Calling.</li> </ul>	
<b>1.03 Quality Assurance</b>	
<b>1.03.01 Qualifications</b>	
<ul style="list-style-type: none"> <li>Install all components as directed by Manufacturer's installation guidelines.</li> <li>All products shall bear the mark of UL or ETL for performance level.</li> <li>System installation shall meet all applicable Local/State codes and safety requirements where project is located.</li> <li>All products shall be new and un-used in original packaging.</li> </ul>	
<b>1.03.02 Bidder/Installer Qualifications</b>	
<ul style="list-style-type: none"> <li>Bidding contractor shall be a local licensed Commercial Fire Alarm Company with licensed Commercial Fire Alarm technician(s) on staff.</li> <li>Bidding contractor shall have a minimum of one year experience installing Silent Knight Addressable fire panels.</li> <li>Bidding contractor shall have a minimum of 5 years experience installing commercial fire alarms.</li> <li>Bidding contractor shall be able to provide insurance at the request of the owner.</li> <li>Bidding contractor shall have a commercial fire technician on the job site at all times during the installation.</li> </ul>	
<b>1.04 Sequencing</b>	
<ul style="list-style-type: none"> <li>Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.</li> </ul>	
<b>1.05 Scheduling</b>	
<ul style="list-style-type: none"> <li>Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.</li> </ul>	
<b>1.06 Warranty</b>	
<ul style="list-style-type: none"> <li>Contractor shall provide a 1-year parts and labor warranty against defective workmanship and/or system component failure. (1-year warranty shall begin at job completion)</li> </ul>	
<b>Part 2 - Products</b>	
<b>2.02 Source Quality Control</b>	
<ul style="list-style-type: none"> <li>Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.</li> </ul>	
<b>Part 3 -</b>	
<b>3.01 Field Quality Control</b>	
<ul style="list-style-type: none"> <li>Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.</li> <li>Contractor shall replace all defective components.</li> </ul>	
<b>3.02 Adjusting</b>	
<ul style="list-style-type: none"> <li>No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.</li> </ul>	
<b>3.03 Protection</b>	
<ul style="list-style-type: none"> <li>It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.</li> <li>Remove all protective covers and protective materials from equipment prior to turnover to Owner.</li> </ul>	
<b>End of Section</b>	
<b>1.04 Submittals</b>	
<b>1.04.01 Prior to installation</b>	
<ul style="list-style-type: none"> <li>Show complete map of system design for approval by Owner.</li> </ul>	
<b>1.04.02 Prior to final acceptance</b>	
<ul style="list-style-type: none"> <li>Provide a soft CAD copy As-Built showing layout of panel, installing devices, notification devices and all mounted equipment upon Substantial Completion.</li> <li>Ensure all warranties specify that the Owner is entitled to all rights guaranteed by the warranty for various components.</li> </ul>	
<b>Fire System Installation Completion Check List</b>	
<b>Part 1 - General</b>	
<b>1.01 Section Includes</b>	
<ul style="list-style-type: none"> <li>Fire System Completion Check List</li> </ul>	
<b>1.02 Completion Check List</b>	
<ul style="list-style-type: none"> <li>A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Jack Phillips with MPS.</li> <li>All panel programming has been checked and is correct.</li> <li>Panel(s) has been tested for proper operation.</li> <li>All zones have been tested to verify proper description at keypad.</li> <li>All zones have been tested to verify proper reporting to the monitoring station.</li> <li>All points have been tested to verify proper description at the keypad.</li> <li>All horns/strobes and strobes have been tested for proper operation.</li> <li>All smoke detectors have been tested and dust covers removed.</li> <li>All devices have been tested for proper operation.</li> <li>All cabinets are labeled on the outside with module numbers and point numbers.</li> <li>All cabinets are labeled on the inside with module numbers by the corresponding module and point descriptions.</li> <li>The monitoring station has the correct account information such as call list, zone descriptions, etc.</li> </ul>	
<b>End of Section</b>	



**Salas O'Brien**  
2600 Van Buren St., Suite 2635  
Norman, OK 73072  
Salas O'Brien Registration: CA# 7058  
Expiration Date: 6/30/2025  
Salas O'Brien Project Number: 2024-01144-00