Subject: Anna B. Day School – Fire Alarm System Replacement SDP
Contract No. B-081C of 2018/19

Location: Anna B. Day School
6324 Crittenden Street,
Philadelphia, Pennsylvania 19138

This Addendum, dated May 24, 2021, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

Drawing Revisions:

Drawings

E100:

1. Updated quantity of test switches and heat detectors.
2. Added remote annunciator panel in engineer’s office room 005

E101:

1. Updated location of fire alarm control panel (FACP).
2. Added smoke detector at FACP location.

Bid RFIs:

Question #1: Spec 011100 states that contact with asbestos containing materials is not anticipated for this project. General note A on drawing E-100.0 states to avoid asbestos containing materials per the provided report, and there should be no cost to the school district if devices need to be relocated to avoid asbestos containing materials. However, there may be instances where we cannot relocate and may need to abate, but this scope cannot be quantified until construction begins. Therefore, this note is unbiddable. Please consider adding an allowance for asbestos abatement or removing the “no cost” portion of general note A.

Response – DELETE NOTE A ON DRAWING E-100 AND NOTE F ON DRAWINGS E-101 AND E-12, AS WELL AS NOTE F ON DRAWINGS ED-100, ED-101 AND ED-102.
The specification is correct. There was no Abatement Specification for this project because it is anticipated that the routing of the new installation will be able to avoid the few remaining areas, if any, containing ACM materials. In the unlikely event routing cannot be altered to avoid areas containing ACM, such as ACT tiles where core drilling through a floor is unavoidable, the Contractor shall notify the District, which will address the issue as needed.

Question #2: Summary of work spec section 011000-1.3(4) states to provide a remote annunciator at the building engineer’s office, but a remote annunciator is not shown in building engineer’s room 005 on drawing E-100.0. Only 2 remote annunciators are shown in the riser diagram on E-501.0 (assuming for the main entrance and main office only). Please confirm a remote annunciator should be provided in the building engineer’s office.

Response – Provide 3rd annunciator in engineer’s office room 005. See revised drawing E100.

Question #3: Summary of work spec section 011000-1.3(12) states to provide flow & tamper switches where required. Flow & tamper switches are not shown on the drawings, and sprinklers were not seen at the site visit. Please confirm flow & tamper switches are not required.

Response – Flow and Tamper switches are not required.

Question #4: No mechanical schedules have been provided to confirm quantity/location of air handling units over 2000cfm. Please confirm all required duct detectors are shown in the drawings, per spec section 011000-1.3(11).

Response – Correct, all required duct detectors are shown on the electrical drawings.

Question #5: Summary of work spec section 011000-1.3(9) states to provide smoke detector above the FACP, but a smoke detector is not shown in room Principal 104 on drawing E101.0. Please confirm a smoke detector should be placed in that room.

Response – The location of the fire alarm control panel has been updated. Yes a smoke detector is required at the location of the FACP. See revised drawing E101.

Question #6: The design intent of the quantity of test switches and monitor modules for non-addressable fire alarm devices on drawing E-100.0 (basement) is unclear. For example, Storage 001 shows (3) test switches & (3) monitor modules, but only (1) conventional heat detector. What conventional devices are the extra (2) test switches & extra (2) monitor modules associated with? There is a similar discrepancy in the Boiler Room 004 and Coal Storage 003. Please confirm the intent is to provide (1) test switch and (1) monitor module for each conventional heat detector, carbon monoxide detector, and weatherproof pull station in the basement.

Response – The quantity of test switches and monitor modules have been updated on the drawings. See revised drawing E-100. Yes, provide (1) test switch and (1) monitor module for each conventional heat detector, carbon monoxide detector, and weatherproof pull station in the basement.

End of Addendum No. 2.
A. Existing Fire Alarm System shall be removed and replaced with new. Existing FA system shall remain operable until new system has been installed, tested, approved, and under operation as directed by Engineer, Fire Marshall, SDP, and the Authority Having Jurisdiction that the new system is approved and the existing system can be removed.

B. The Contractor shall visit the site prior to start of work to survey the existing conditions of the building and the existing fire alarm system to be demolished.

C. Floor plan shown is for schematic purposes only, unless otherwise noted, Contractor is to remove all fire alarm devices, wiring, junction boxes, conduits, and associated appurtenances within scope of demolition. Contractor shall remove all fire alarm circuitry back to source, for all devices to be removed under demolition. Fire alarm circuits determined to be abandoned shall be removed per NEC 760.25. Junction boxes and conduits embedded in concrete or wall may remain, conduit must be cut at wall boundary and sealed. Junction boxes to be covered with metal blank cover plate. Existing recessed junction boxes and device boxes shall be covered with metal cover plates and shall be painted to match adjacent finished surfaces.

D. Legally dispose of devices indicated to be removed. Offer equipment to owner and dispose of equipment the owner does not wish to retain.

E. All existing 120 volt, 20 amp circuits currently utilized for the existing fire alarm system to be removed. Remove all conduit and wiring back to source panel board.

F. Prior to start of the fire alarm system scope of work, Contractor must review and comply with the Asbestos Inspection Report (AIR) for all asbestos containing areas and building materials to remain as is. Demolition of existing fire alarm devices & equipment, and conduits shall be coordinated with the AIR to avoid all asbestos containing walls, ceilings, and floors. There shall be no cost to the School District of Philadelphia for demolition of devices, equipment, and conduits which must be coordinated to avoid all asbestos containing walls, ceilings, and floors.

FIRE ALARM SYSTEM NOTES

- Remove existing fire alarm system panels (main fire alarm controls, control panel, smoke detector annunciators, code transmitter) and all associated equipment and devices. FACP to be replaced with new addressable FACP. Existing 120 volt, 20 amp circuit for power and telephone lines to existing FACP to be disconnected and removed. Remove conduit and wiring back for power and telephone lines to source panel and/or to main telephone terminal equipment. Existing fire alarm system shall remain operational until new system is installed and put into operation.

- BASEMENT FIRE ALARM SYSTEM - DEMOLITION PLAN

- ISSUE FOR BID - APRIL 23, 2021

- MEP Engineer

- An Ingenium International Company

- One Penn Center

- 1617 JFK Boulevard, Suite 1600

- Philadelphia, PA 19103  U.S.A.

- nord.com
EXISTING FIRE ALARM SYSTEM SHALL BE REMOVED AND REPLACED WITH NEW. EXISTING FA SYSTEM SHALL REMAIN OPERABLE UNTIL NEW SYSTEM HAS BEEN INSTALLED, TESTED, APPROVED, AND UNDER OPERATION AS DIRECTED BY ENGINEER, FIRE MARSHALL, SDP, AND THE AUTHORITY HAVING JURISDICTION THAT THE NEW SYSTEM IS APPROVED AND THE EXISTING SYSTEM CAN BE REMOVED.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO START OF WORK TO SURVEY THE EXISTING CONDITIONS OF THE BUILDING AND THE EXISTING FIRE ALARM SYSTEM TO BE DEMOLISHED.

FLOOR PLAN SHOWN IS FOR SCHEMATIC PURPOSES ONLY, UNLESS OTHERWISE NOTED, CONTRACTOR IS TO REMOVE ALL FIRE ALARM DEVICES, WIRING, JUNCTION BOXES, CONDUITS, AND ASSOCIATED APPURTENANCES WITHIN SCOPE OF DEMOLITION. CONTRACTOR SHALL REMOVE ALL FIRE ALARM CIRCUITRY BACK TO SOURCE, FOR ALL DEVICES TO BE REMOVED UNDER DEMOLITION. FIRE ALARM CIRCUITS DETERMINED TO BE ABANDONED SHALL BE REMOVED PER NEC 760.25. JUNCTION BOXES AND CONDUITS EMBEDDED IN CONCRETE OR WALL MAY REMAIN, CONDUIT MUST BE CUT AT WALL BOUNDARY AND SEALED. JUNCTION BOXES TO BE COVERED WITH METAL BLANK COVER PLATE. EXISTING RECESSED JUNCTION BOXES AND DEVICE BOXES SHALL BE COVERED WITH METAL COVER PLATES AND SHALL BE PAINTED TO MATCH ADJACENT FINISHED SURFACES.

LEGALLY DISPOSE OF DEVICES INDICATED TO BE REMOVED. OFFER EQUIPMENT TO OWNER AND DISPOSE OF EQUIPMENT THE OWNER DOES NOT WISH TO RETAIN.

ALL EXISTING 120VOLT, 20AMP CIRCUITS CURRENTLY UTILIZED FOR THE EXISTING FIRE ALARM SYSTEM TO BE REMOVED. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE PANEL BOARD.

PRIOR TO START OF THE FIRE ALARM SYSTEM SCOPE OF WORK, CONTRACTOR MUST REVIEW AND COMPLY WITH THE ASBESTOS INSPECTION REPORT (AIR) FOR ALL ASBESTOS CONTAINING AREAS AND BUILDING MATERIALS TO REMAIN AS IS. DEMOLITION OF EXISTING FIRE ALARM DEVICES & EQUIPMENT, AND CONDUITS SHALL BE COORDINATED WITH THE AIR TO AVOID ALL ASBESTOS CONTAINING WALLS, CEILINGS, AND FLOORS. THERE SHALL BE NO COST TO THE SCHOOL DISTRICT OF PHILADELPHIA FOR DEMOLITION OF DEVICES, EQUIPMENT, AND CONDUITS WHICH MUST BE COORDINATED TO AVOID ALL ASBESTOS CONTAINING WALLS, CEILINGS, AND FLOORS.

REMOVE ALL EXISTING NOTIFICATION AND INITIATION DEVICES (BELLS, SMOKE DETECTORS, HEAT DETECTORS, DUCTWORK MOUNTED SMOKE DETECTORS, MANUAL PULL STATIONS, ETC.). ALL EXISTING DEVICES MAY NOT BE IDENTIFIED ON PLANS, THE CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM SYSTEM COMPLETELY INCLUDING DEVICES WHICH ARE NOT IDENTIFIED ON PLANS. REMOVE ALL CONDUIT AND FA WIRING BACK TO SOURCE FIRE ALARM CONTROL PANEL (FACP).

REMOVAL OF BUILDING FEATURING 3 BAY FIRE ALARM SYSTEMS FOR NEW 1014 DESIGNED BY U.S. MARSHALLS AREN'T SCHEDULED TO BEGIN UNTIL AFTER COMPLETION OF EXISTING SYSTEM'S SCOPE OF WORK.
FIRE ALARM GENERAL NOTES:

A. PROVIDE A NEW 120V, 20AMP POWER CIRCUIT FROM PANELBOARD IDENTIFIED FOR FIRE ALARM KEY NOTES.

B. PROVIDE NEW 120V, 20AMP BRANCH CIRCUIT BREAKERS FOR NEW FIRE ALARM PANELS.

C. PROVIDE A NEW 120V, 20AMP POWER CIRCUIT FROM PANELBOARD IDENTIFIED FOR FIRE ALARM SYSTEM PRINTER RECEPTACLE.

D. PROVIDE CIRCUIT WITH (2) #12 + (1) #12 GND. IN FIRE ALARM SYSTEM KEY NOTES.

E. PROVIDE PULL STATION WITH PROTECTIVE COVER AND ALARM.

F. PROVIDE FIRE ALARM KEY NOTES.

G. PROVIDE FIRE ALARM KEY NOTES.

H. PROVIDE FIRE ALARM KEY NOTES.

I. PROVIDE FIRE ALARM KEY NOTES.

J. PROVIDE FIRE ALARM KEY NOTES.

K. PROVIDE FIRE ALARM KEY NOTES.

L. PROVIDE FIRE ALARM KEY NOTES.

M. PROVIDE FIRE ALARM KEY NOTES.

N. PROVIDE FIRE ALARM KEY NOTES.

O. PROVIDE FIRE ALARM KEY NOTES.

P. PROVIDE FIRE ALARM KEY NOTES.

Q. PROVIDE FIRE ALARM KEY NOTES.

R. PROVIDE FIRE ALARM KEY NOTES.

S. PROVIDE FIRE ALARM KEY NOTES.

T. PROVIDE FIRE ALARM KEY NOTES.

U. PROVIDE FIRE ALARM KEY NOTES.

V. PROVIDE FIRE ALARM KEY NOTES.

W. PROVIDE FIRE ALARM KEY NOTES.

X. PROVIDE FIRE ALARM KEY NOTES.

Y. PROVIDE FIRE ALARM KEY NOTES.

Z. PROVIDE FIRE ALARM KEY NOTES.
FIRE ALARM SYSTEM RISER NOTES:

1. The fire alarm system shown on this drawing is schematic only. It is intended to indicate the major fire alarm equipment. The diagram is not intended to indicate all peripheral devices; refer to the floor plans for the complete listing of equipment.

2. The fire alarm system is designed for a complete and functional system, including all required hardware and software. The contractor/vendor/manufacturer is required to provide the following equipment:

   a. The main console shall be supplied with battery backup to comply with NFPA 72. Also required to support the entire fire alarm system based on the quantity of panels required based on the manufacturer’s NAC panel function and contract.
   b. Suitable enclosure (weatherproof if located on roof) shall be furnished for all interconnection between relay and HVAC.
   c. Power supply (EOL) shall be by E.C. Verify and coordinate HVAC unit control shutdown upon activation of fire alarm system.
   d. Fire alarm equipment shall be by E.C. Verify and coordinate HVAC unit control shut down upon activation of fire alarm system.
   e. Required to support the entire fire alarm system based on the quantity of panels required based on the manufacturer’s NAC panel function and contract.

3. The following documentation at the project close-out:

   a. A complete record of completion shall include the cost of installation and wiring for all spare devices/equipment in the base bid: devices/equipment at additional locations if requested by owner and/or engineer.
   b. Contractor shall provide the following equipment for installation:
      - (2) duct detectors with housing.
      - (2) weather proof heat detectors (conventional type, fixed temp.).
      - (5) visual strobe notification devices.
      - (2) manual pull stations with protective cover and alarm device installed in the fire alarm system including the main console.
      - (1) heat detectors, conventional type fixed high temperature sensor type 190F deg. rated.
      - (2) heat detectors, conventional combination type (for high ceiling areas).
      - (3) heat detectors, addressable combination type.

4. All concealed initiating devices should have a remote indicating light located in an accessible location.

5. The fire alarm system riser may not indicate all required network devices/equipment locations and quantities of all peripheral devices. Plans and schedules and diagrams are for schematic purposes only.

6. All federal, state and local codes and ordinances.

7. Requirements of authority having jurisdiction (AHJ).

8. 2018 IBC code and PA uniform construction code (PAUCC).


10. The 2017 national electric code.

11. Supervised relays located adjacent to HVAC unit motor starter to provide supervised relays located adjacent to HVAC unit motor starter to activate any common area smoke detector, or pull station shall initiate fire alarm system RISER.

12. Software. Provide battery calculations for all FACP and data gathering operating systems. The contractor/vendor/manufacturer is required to provide the following equipment:

   a. The fire alarm system is intended to indicate the major fire alarm equipment. The schematic fire alarm riser is intended to indicate the major fire alarm equipment.
   b. The fire alarm system riser shown on this drawing is schematic purposes only. The schematic fire alarm riser is intended to indicate the major fire alarm equipment.