### THE SCHOOL DISTRICT OF PHILADLPHIA SCHOOL REFORM COMMISSION Office of Capital Programs 440 North Broad Street, 3rd Floor - Suite 371

Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

#### Addendum No. 01

Subject: Andrew J. Morrison Elementary School – Fire Alarm System Replacement

SDP Contract No. B-009 (C) of 2017/18

5100 North 3rd Street Location:

Philadelphia, Pennsylvania 19120

This Addendum 01, dated January 30, 2018 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.

#### **Drawings**

Drawing ED100A - Removed Keynote #6. Removed scope of work for AHU motor replacement.

Drawing ED100B - Removed Keynote #6. Removed scope of work for AHU motor replacement.

Drawing E100A – Revised Keynote #8, removed requirement for (2) copper telephone lines to FACP.

Removed Keynote #5 and #12. Removed scope of work for AHU motor replacement.

Drawing E100B – Revised Keynote #8, removed requirement for (2) copper telephone lines to FACP.

Removed Keynote #5 and #12. Removed scope of work for AHU motor replacement.

Drawing E601 - Revised the Fire Alarm System Riser, removed requirement for (2) copper telephone lines to FACP.

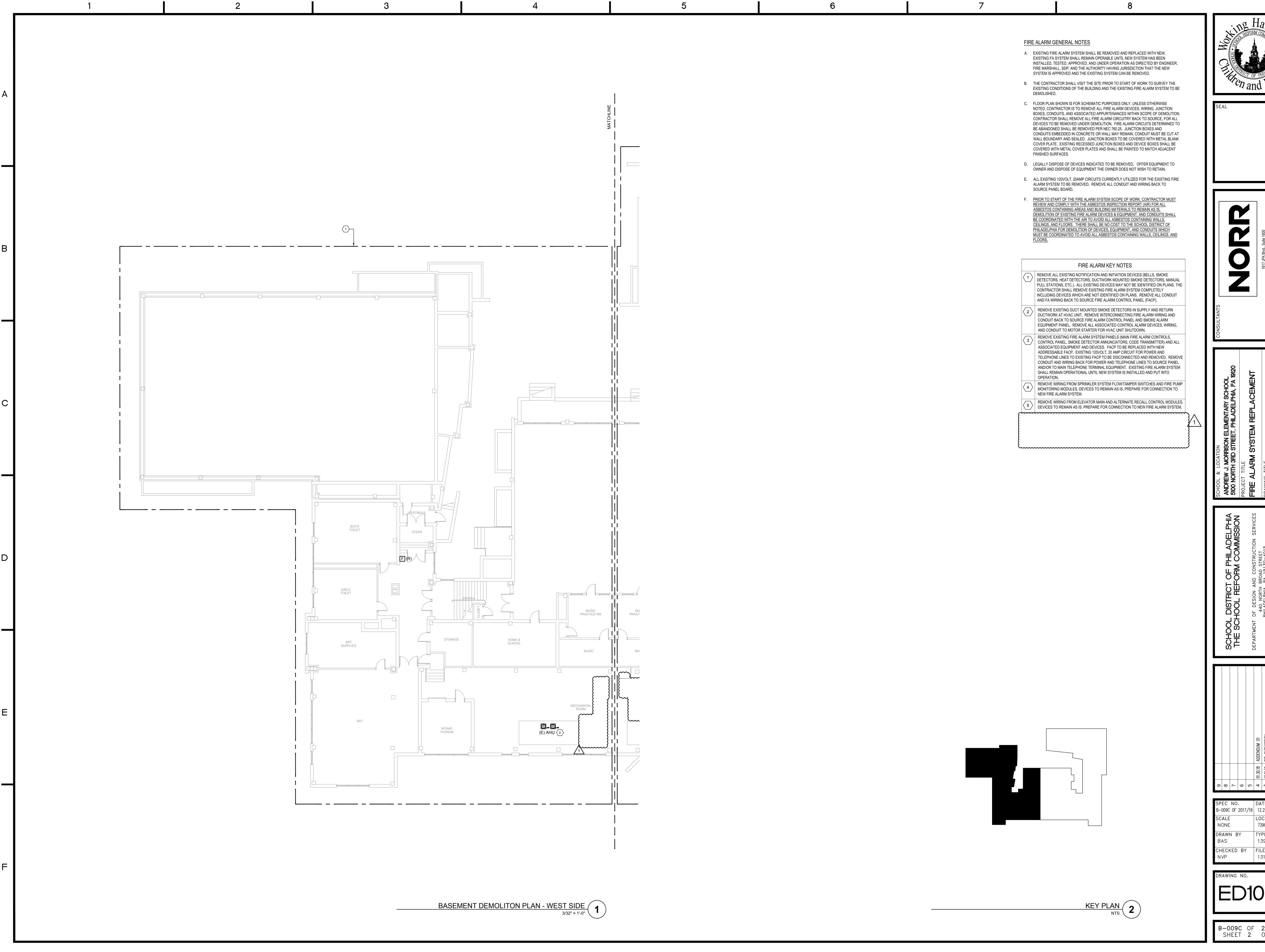
Drawing E602 - Removed Motor Schedule.

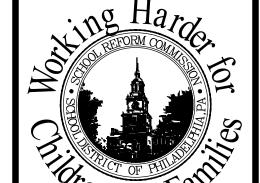
#### **Specifications**

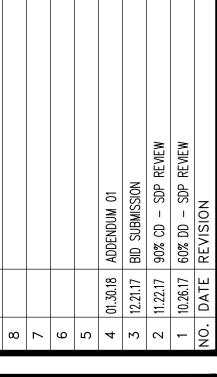
Section 230513 – Removed from project specifications.

Section 262913 – Removed from project specifications.

#### **End of Addendum**

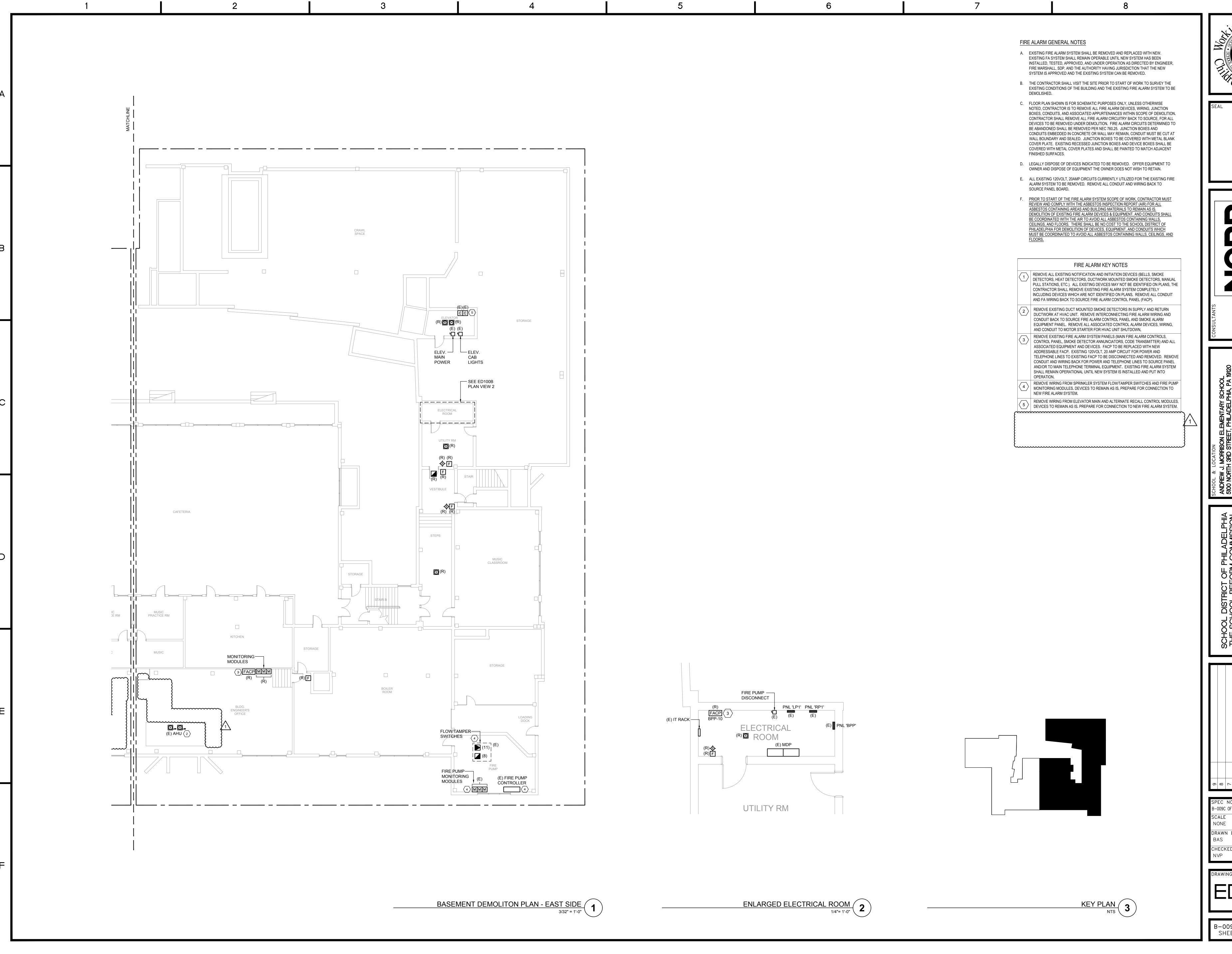






SPEC NO.	DATE
B-009C OF 2017/18	12.21.17
SCALE	LOCATION NO.
NONE	7390
DRAWN BY	TYPE NO.
BAS	139
CHECKED BY	FILE NO.
NVP	131







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1617 JFK Blvd., Suite 1600
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Architecture - Interior Design - Engineering

STEM REPLACEMENT

ALARM SYSTEM
PLAN - EAST SIDE

ION
PROJECT TITLE
FIRE ALARM SYSTEN

DRAWING TITLE
BASEMENT FIRE ALARM
- DEMOLITION PLAN

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVING PHILADELPHIA, PA 19130-4015
215.400.4730 FAX 215.400.4731

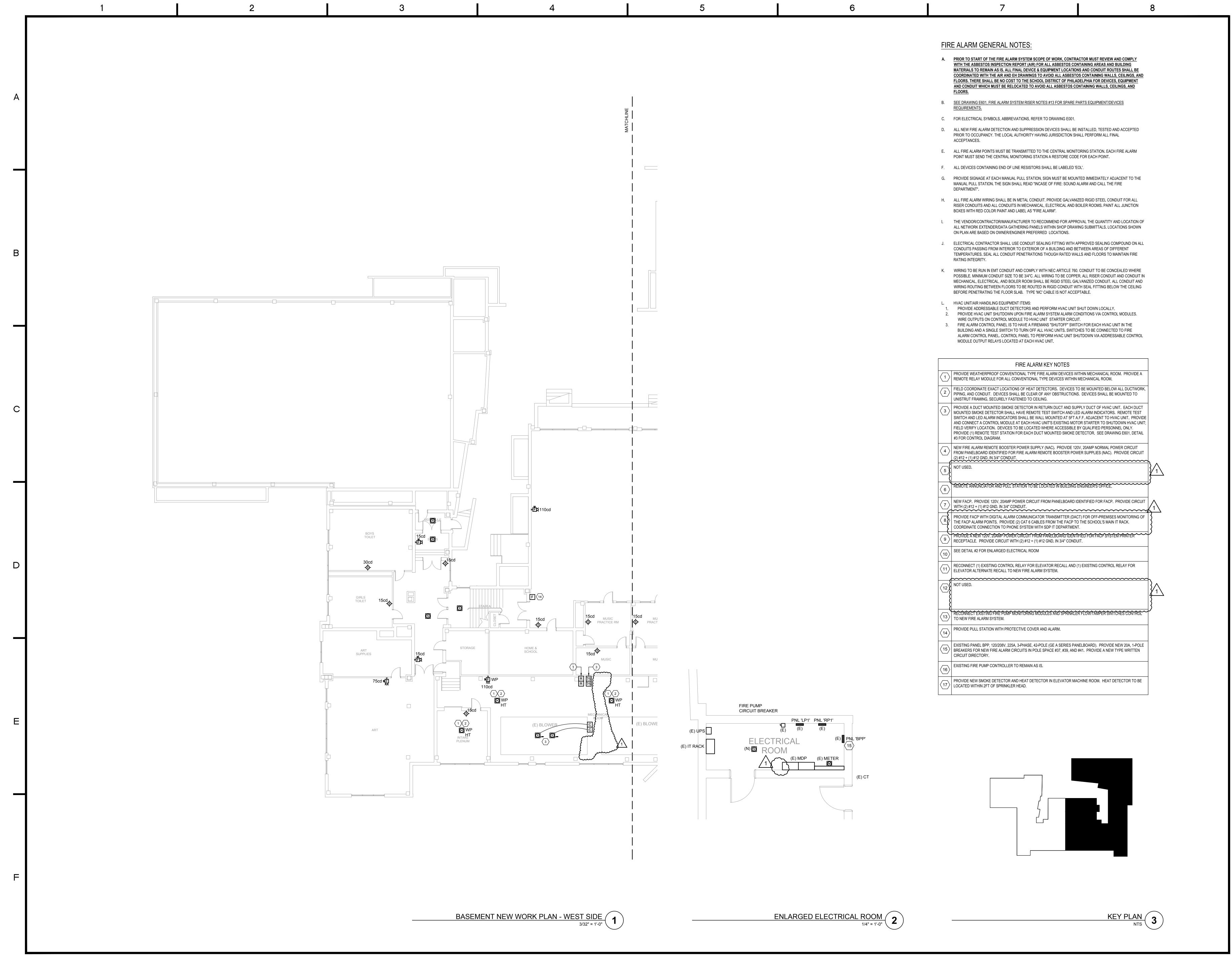
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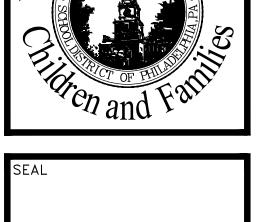
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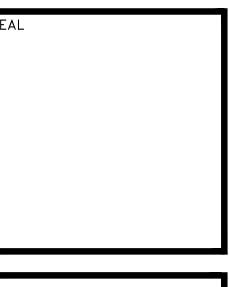
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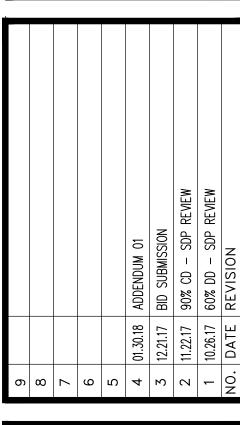
B-009C OF 2017/18



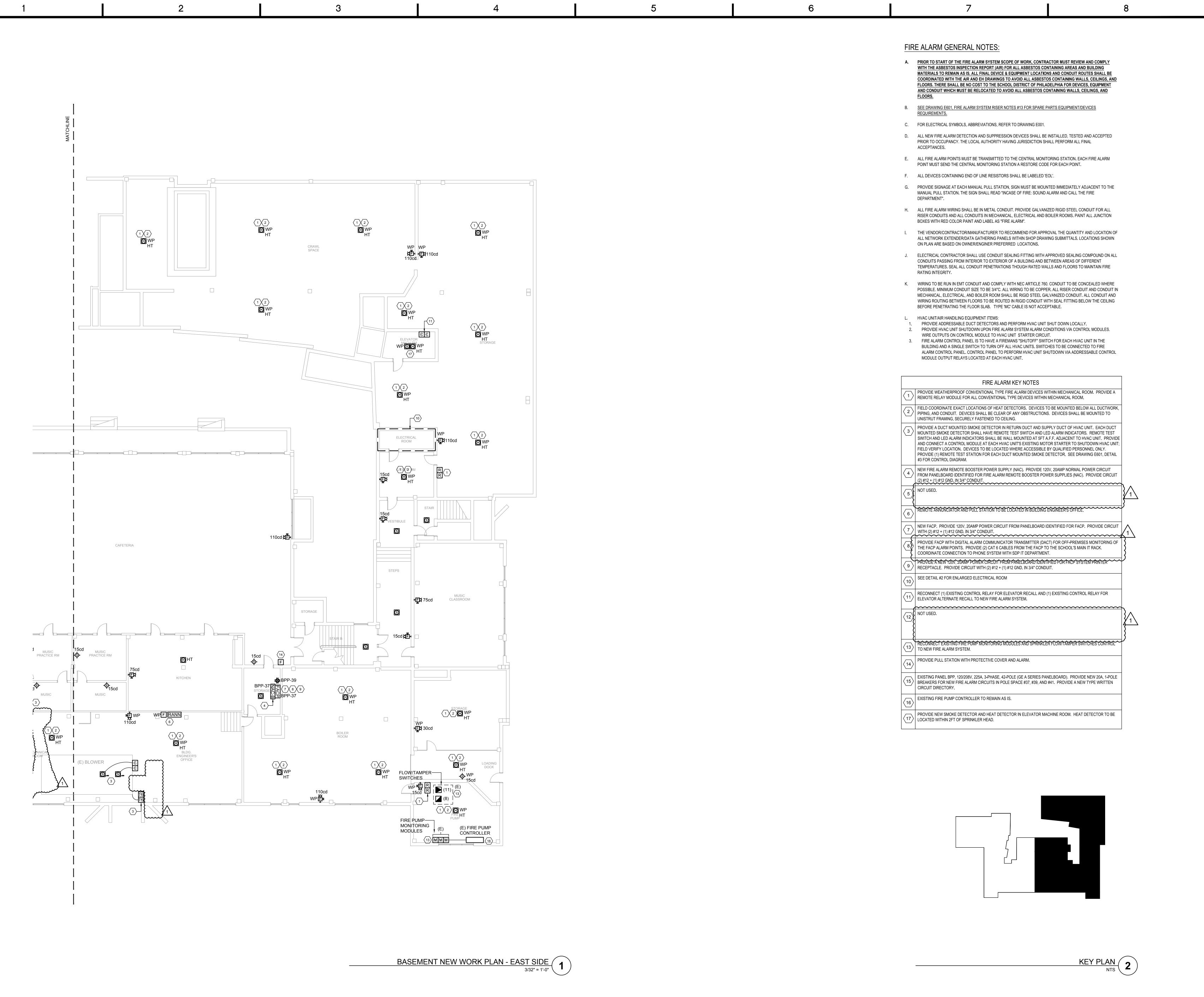




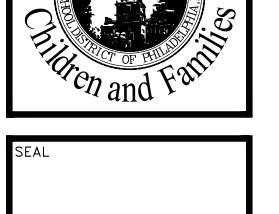


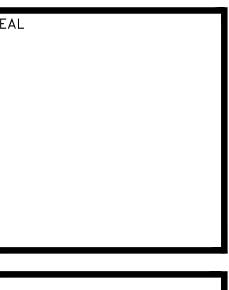


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ALARM SYSTEM REPLACEMENT

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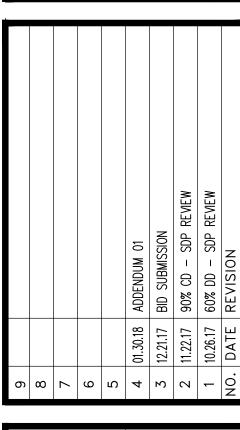
WORK PLAN - EAST SIDE

THE SCHOOL REFORM COMMISSION

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES

440 NORTH BROAD STREET
PHILADELPHIA, PA 19130-4015
215.400.4730 FAX 215.400.4731

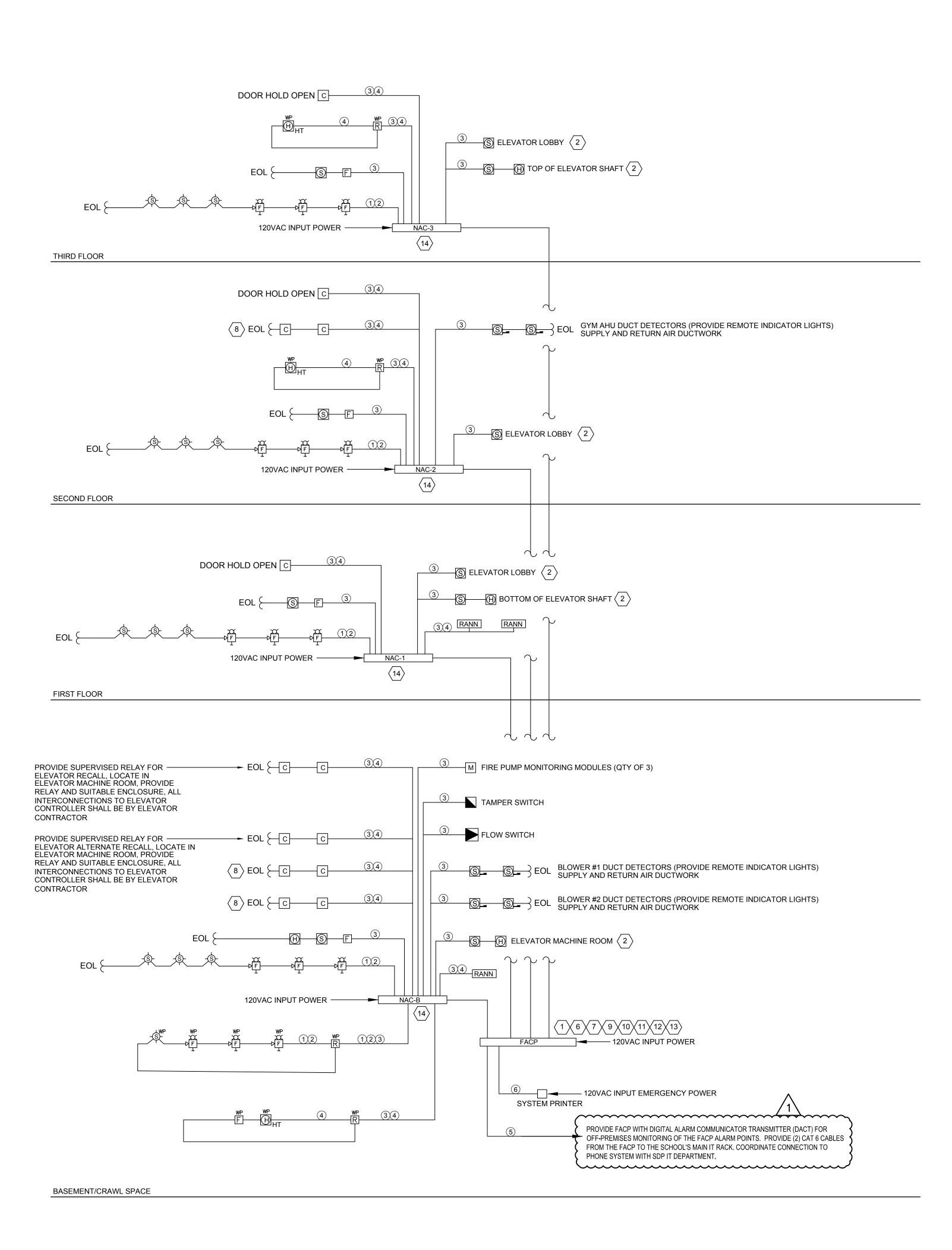
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E100B

B-009C OF 2017/18



# FIRE ALARM SYSTEM RISER NOTES:

- THE SCHEMATIC FIRE ALARM RISER IS INTENDED TO INDICATE THE MAJOR FIRE ALARM COMPONENTS AND GENERAL SEPARATION OF INDICATING, INITIATING, COMMUNICATIONS, AND ANNUNCIATION CIRCUITS AS REQUIRED BY THE PROJECT. WIRING IS TO BE PROVIDED AS REQUIRED BY THE FIRE ALARM EQUIPMENT MANUFACTURER. THE RISER DIAGRAM IS A GENERAL INDICATION OF EQUIPMENT TO BE PROVIDED AND DOES NOT NECESSARILY INDICATE ALL ITEMS OR APPURTENANCES WHICH MAY BE REQUIRED TO PROVIDE A FULLY OPERATIONAL SYSTEM. ALL SUCH ITEMS ARE TO BE PROVIDED AS INDICATED IN THE SPECIFICATIONS AND AS REQUIRED FOR OPERATION OF THE SYSTEM.
- ACTIVATION OF SMOKE DETECTOR AT TOP OF ELEVATOR SHAFT, IN LOBBIES OR IN ELEVATOR MACHINE ROOM SHALL INITIATE RECALL SEQUENCE. ACTIVATION OF HEAT DETECTOR IN ELEVATOR SHAFT OR ELEVATOR MACHINE ROOM SHALL INITIATE SHUNT TRIP OF ELEVATOR MAIN POWER AND CAB LIGHTS.
- ACTIVATION OF ANY COMMON AREA SMOKE DETECTOR, OR PULL STATION SHALL INITIATE A GENERAL ALARM FOR THE ENTIRE BUILDING.
- 4 PROVIDE FULLY ADDRESSABLE SYSTEM CAPABLE OF ADDRESSING EACH DEVICE.
- ALL CONCEALED INITIATING DEVICES SHOULD HAVE A REMOTE INDICATING LIGHT LOCATED IN AN ACCESSIBLE LOCATION.
- FACP SHALL BE SUPPLIED WITH BATTERY BACKUP TO COMPLY WITH NFPA 72. ALSO PROVIDE THE APPROPRIATE DIALER TO NOTIFY A CENTRAL MONITORING LOCATION OR CENTRAL STATION.
- THE INSTALLING ELECTRICAL CONTRACTOR SHOULD BE ADVISED TO PREPARE THE FOLLOWING DOCUMENTATION AT THE PROJECT CLOSE-OUT:
- SET OF 'AS-BUILT' DRAWINGS AS APPROVED BY THE FIRE MARSHALL.
- 2. RECORD OF COMPLETION (A DOCUMENT THAT ACKNOWLEDGES THE FEATURES OF
- INSTALLATION, OPERATION (PERFORMANCE), SERVICE AND EQUIPMENT).
- MANUAL CONTAINING A 'SEQUENCE OF ALARM' AND A MANUFACTURERS SHEET FOR EACH DEVICE INSTALLED IN THE FIRE ALARM SYSTEM INCLUDING THE MAIN CONSOLE.
- PROVIDE SUPERVISED RELAYS LOCATED ADJACENT TO HVAC UNIT MOTOR STARTER TO SHUT DOWN HVAC UNITS UPON ACTIVATION OF FIRE ALARM SYSTEM. RELAY AND SUITABLE ENCLOSURE (WEATHERPROOF IF LOCATED ON ROOF) SHALL BE FURNISHED AND INSTALLED BY E.C., ALL INTERCONNECTIONS BETWEEN RELAY AND HVAC EQUIPMENT SHALL BE BY E.C. VERIFY AND COORDINATE HVAC UNITS CONTROL VOLTAGES.

## FIRE ALARM RISER WIRING LEGEND:

- 1. 1 PAIR #16 AWG UNSHIELDED STROBE POWER 24V.DC
- 2.) 1 PAIR #16 AWG UNSHIELDED HORN POWER 24V.DC
- (3.) 1 PAIR #16 AWG SHIELDED ADDRESSABLE DATA LOOP
- (4.) 1 PAIR #16 AWG UNSHIELDED 24V POWER
- (5.) (2) CAT 6 DATA CABLES WITH RJ-45 TERMINATION(6.) (1) RS-232 PRINTER DATA COMMUNICATIONS CABLE

- FIRE ALARM SYSTEM RISER SHOWN ON THIS DRAWING IS SCHEMATIC PURPOSES ONLY AND IT MAY NOT INDICATE ALL PERIPHERAL DEVICES; REFER TO THE FLOOR PLANS FOR DEVICE/EQUIPMENT LOCATIONS AND QUANTITIES OF ALL PERIPHERAL DEVICES. PLANS AND FIRE ALARM SYSTEM RISER MAY NOT INDICATED ALL REQUIRED NETWORK EXTENDER/DATA GATHERING PANELS REQUIRED FOR A COMPLETE AND FUNCTIONAL OPERATING SYSTEM. THE CONTRACTOR/VENDOR/MANUFACTURER IS REQUIRED PROVIDE AND INSTALL ALL WIRING AND NETWORK EXTENDER/DATA GATHERING PANELS NEEDED FOR A COMPLETE AND FUNCTIONAL SYSTEM, INCLUDING ALL REQUIRED HARDWARE AND SOFTWARE. PROVIDE BATTERY CALCULATIONS FOR ALL FACP AND DATA GATHERING PANELS, PROVIDE VOLTAGE DROP CALCULATIONS.
- ALL NEW WORK TO BE DONE IN ACCORDANCE WITH:
  - 1. THE 2011 NATIONAL ELECTRIC CODE
    2. NFPA 72, NATIONAL FIRE ALARM CODE, LATEST EDITION
    3. REQUIREMENTS OF AUTHORITY HAVING JURISDICTION (AJU)
  - 4. 2012 IBC CODE5. CITY OF PHILADELPHIA 2009 FIRE ALARM CODE6. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- CONTRACTOR IS RESPONSIBLE SCHEDULE/ARRANGE, AND PAY FOR ALL PERMITS AND
- THE NEW FIRE ALARM SYSTEM IS TO BE ACCEPTABLE BY FIRE MARSHALL BEFORE THE
- CONTRACTOR SHALL PROVIDE THE FOLLOWING SPARE EQUIPMENT/DEVICES TO FURNISH AND INSTALLATION DEVICES/EQUIPMENT AT ADDITIONAL LOCATIONS IF REQUESTED BY OWNER AND/OR ENGINEER. CONTRACTOR SHALL INCLUDE THE COST OF INSTALLATION AND WIRING FOR ALL SPARE DEVICES/EQUIPMENT IN THE BASE BID:
  - 1. (15) SMOKE DETECTORS

REMOVAL OF THE EXISTING FIRE ALARM SYSTEM.

- 1. (15) SMOKE DETECTORS
  2. (5) HEAT DETECTORS, ADDRESSABLE COMBINATION TYPE
- 3. (2) HEAT DETECTORS, CONVENTIONAL COMBINATION TYPE (FOR HIGH CEILING AREAS)4. (1) HEAT DETECTORS, CONVENTIONAL TYPE FIXED HIGH TEMPERATURE SENSOR TYPE 190F DEG. RATED5. (2) MANUAL PULL STATIONS WITH PROTECTIVE COVER AND ALARM
- 6. (5) COMBINATION HORN/STROBE NOTIFICATION DEVICE 7. (5) VISUAL STROBE NOTIFICATION DEVICE.
- 7. (5) VISUAL STROBE NOTIFICATION DEVICE.
  8. (3) WEATHER PROOF HEAT DETECTORS (CONVENTIONAL TYPE, FIXED TEMP.)
- THE QUANTITY OF FIRE ALARM NAC EXTENDER POWER SUPPLY PANELS SHOWN ON THESE DRAWINGS AND THE RISER DIAGRAM ARE FOR SCHEMATIC PURPOSES ONLY. THE CONTRACTOR AND FIRE ALARM VENDOR SHALL DETERMINE THE EXACT QUANTITY OF NAC PANELS REQUIRED BASED ON THE MANUFACTURER'S NAC PANEL FUNCTION AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE QUANTITY OF NAC PANELS REQUIRED TO SUPPORT THE ENTIRE FIRE ALARM SYSTEM BASED ON THE QUANTITY OF DEVICES SHOWN ON PLAN, TOTAL POWER NEEDED TO SUPPORT THE DEVICES, VOLTAGE DROP CALCULATIONS FOR EACH CIRCUIT, BATTERY CALCULATIONS, SIZE OF BUILDING, ETC. THE CONTRACTOR SHALL PROVIDE 120V, 20A CIRCUITS FOR ALL NAC PANELS THAT ARE INSTALLED BASED ON THE FIRE ALARM VENDOR'S CALCULATIONS AT NO ADDITIONAL



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ALARM SYSTEM REPLACEME

ING TITLE

HEDULES AND DIAGRAMS

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DATE
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