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. 002

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 can not 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.

GENERAL

(E)	EXISTING EQUIPMENT TO REMAIN
(R)	EXISTING EQUIPMENT TO BE REMOVED
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(RE)	RELOCATED EXISTING EQUIPMENT
(F)	FUTURE EQUIPMENT BY OTHERS
	TERMINATION POINT OF DEMOLITION
	CONNECT NEW TO EXISTING
	SHEET NOTE
	EQUIPMENT DESIGNATION
	EQUIPMENT IDENTIFICATION
X EXXX	DETAIL CALL OUT

FIRE ALARM

	FLOW SWITCH
	TAMPER SWITCH
FACP	FIRE ALARM - CONTROL PANEL
RANN	FIRE ALARM - REMOTE ANNUNCIATOR
NACxx	FIRE ALARM - NETWORK EXTENDER/ DATA GATHERING PANEL
ANSUL	KITCHEN FIRE SUPPRESSION SYSTEM CONTROL PANEL (ANSUL)
M	ADDRESSABLE MONITORING MODULE
F	FIRE ALARM - PULL STATION W/ PROTECTIVE COVER AND ALARM
	FIRE ALARM - VISUAL LIGHT
	FIRE ALARM COMBINATION SPEAKER STROBE
	FIRE ALARM SPEAKER
S	SMOKE DETECTOR - CEILING MOUNTED
	SMOKE DETECTOR - WALL MOUNTED
	SMOKE DETECTOR - MOUNT ON DUCTWORK WITH REMOTE TEST SWITCH AND INDICATING STATION
H	HEAT DETECTOR - CEILING MOUNTED ADDRESSABLE COMBINATION TYPE
HC	HEAT DETECTOR - CEILING MOUNTED CONVENTIONAL COMBINATION TYPE W/ REMOTE ADDRESSABLE RELAY MODULE AND TEST SWITCH
HHT	HEAT DETECTOR - CEILING MOUNTED CONVENTIONAL TYPE FIXED TEMP. SENSOR RATED 190 DEG F W/ REMOTE ADDRESSABLE RELAY MODULE AND TEST SWITCH
EOL	END OF LINE DEVICE
M	MONITOR MODULE
C	CONTROL MODULE
R	RELAY MODULE & TEST SWITCH FOR CONVENTIONAL DEVICES
TS	REMOTE TEST STATION WITH KEY LOCK WALL MOUNTED AT 5 FT. A.F.F.
	DOOR HOLDER
B	FIRE ALARM BELL
CO	CARBON MONOXIDE DETECTOR
DVC	DIGITAL VOICE COMMAND

POWER

	MAGNETIC CONTACTOR OR MOTOR STARTER
	DISCONNECT SWITCH - NONFUSED
	DISCONNECT SWITCH - FUSED
	20A DOUBLE DUPLEX RECEPTACLE
	20A DUPLEX RECEPTACLE
	LIGHTING OR POWER PANEL 120V/208V OR 277/480V
T	TRANSFORMER

MOUNTING HEIGHTS

1. ALL MOUNTING HEIGHTS LIST ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED AND MUST CONFORM TO ADA, NFPA, ANSI 117.1 REQUIREMENTS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY FINAL LOCATION OF ALL DEVICES WITH ARCHITECT AND/OR INTERIOR DESIGNER.
3. WHERE DEVICES FALL ON TWO SURFACE FINISHES, RAISE THE DEVICE TO BE ON A SINGLE FINISH. COORDINATE WITH ARCHITECT.

FIRE ALARM GONG AND BELL (WALL MOUNTED)	6'-8" MAX. HT. OR 6" BELOW CLG. WHICHEVER IS LOWER
FIRE ALARM STROBE LIGHT & SIGNALING DEVICES (WALL MOUNTED)	ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER 96" AFF. WHERE LOW CEILINGS DO NOT PERMIT MOUNTING AT MIN. 80", DEVICE SHALL BE MOUNTED WITHIN 6" OF THE CEILING.
TOP OF LIGHTING AND/OR POWER PANELS IN COMMON BUILDING SPACES TOP OF TELEPHONE CABINET(MAXIMUM)	6' - 2" AFF
TOP OF LIGHTING AND/OR POWER PANELS IN LIVING UNITS	4' - 6" AFF TO HIGHEST OPERABLE DEVICE
TOP OF BACK MOUNTED EXIT FIXTURE (NOT LOCATED ABOVE DOORS)	12" BELOW FINISHED CEILING TO CENTERLINE
TOP OF SAFETY DISCONNECT SWITCH, CONTACTORS, MAGNETIC MOTOR STARTERS	6' - 0" MAXIMUM AFF
"++"	6" BELOW FINISHED CEILING
"+"	4' - 0" AFF OR 6" ABOVE COUNTER
"-"	BELOW COUNTER
TELEPHONE (TOP OF COIN SLOT) TELEPHONE OUTLET (WALL), LIGHT SWITCHES	3' - 6" AFF
MANUAL CONTROL DEVICES, THERMOSTAT, FIRE ALARM PULL STATION, FIRE PHONE JACKS	3' - 6" AFF
RECEPTACLES, TELEPHONE OUTLETS (DESK) TELEVISION OUTLETS COMPUTER OUTLETS	1' - 6" (MIN.) AFF
FINISHED FLOOR ELEV. (BASE)	0' - 0"

LIFE SAFETY SCOPE OF WORK

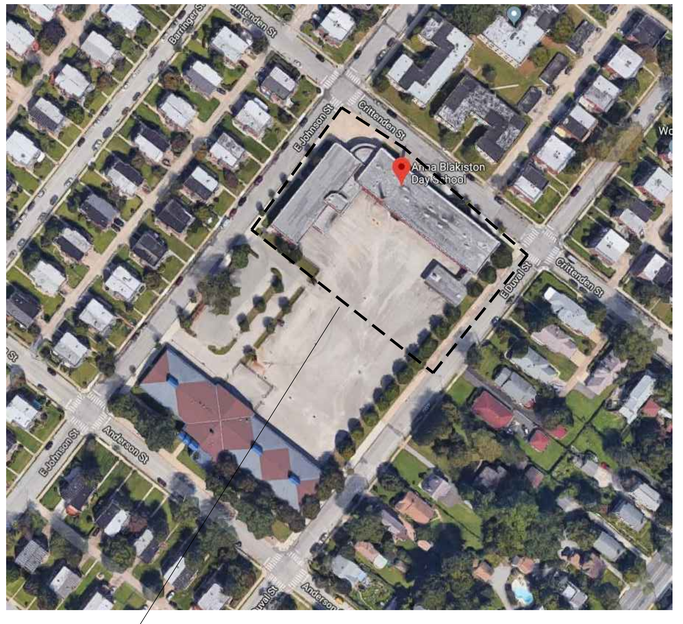
1. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO:
   - A. PULL STATIONS - ADDRESSABLE TYPE
   - B. SMOKE DETECTORS - ADDRESSABLE TYPE
   - C. STROBE LIGHTS - (WALL MOUNTED) ADA TYPE - 80" A.F.F.
   - D. AUDIBLE HORNS - SET TO 15db ABOVE AMBIENT SOUND.
   - E. WIRING FROM ALL DEVICES TO THE FACP
   - F. WIRING FROM THE FACP TO THE REMOTE ANNUNCIATOR
   - G. WIRING FROM THE FACP TO FLOW AND TAMPER SWITCHES INCLUDING ADDRESSABLE MODULES.
2. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL FIRE ALARM MANUFACTURER'S TECHNICIAN TIME IN BASE PRICE.
3. ELECTRICAL CONTRACTOR SHALL INCLUDE FEES FOR ALL TESTING INCLUDING LOCAL FIRE DEPARTMENT SMOKE TEST IN BASE PRICE.
4. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BASE PRICE ALL SOFTWARE PROGRAMMING AND FINAL PROGRAM LOADED INTO THE EXISTING FIRE ALARM SYSTEM FOR A COMPLETE OPERATIONAL SYSTEM.
5. ALL FIRE ALARM WORK SHALL COMPLY WITH THE LOCAL BUILDING CODE, NFPA 72, AND THE NATIONAL ELECTRICAL CODE.
6. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRING AND DEVICES TO PROVIDE A COMPLETE, OPERATING, AND APPROVED SYSTEM.

LEGEND DISCLAIMER

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

GENERIC ELECTRICAL ABBREVIATIONS

(R)	EXISTING DEVICE, TO BE REMOVED
(E)	EXISTING DEVICE, TO REMAIN
A	AMPERE(S)
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GUAGE
BOC	BOTTOM OF CONDUIT
BFC	BELOW FINISHED CEILING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CC	CONTROL CABINET
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DE	DUAL ELEMENT
DP	DOUBLE POLE
DS	DISCONNECT SWITCH
DT	DOUBLE THROW
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
E.HTR	ELECTRIC HEATER
EM	EMERGENCY LIGHTING
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
F	FUSED
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FL	FLOOR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPT
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HT	ELECTRIC HEAT TRACE
HW	HEAVYWALL RIGID CONDUIT
HZ	HERTZ(FREQ. IN CYCLES PER SECOND)
I	INTERCOM
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MIL(S)
KVA	KILOVOLT AMPERE(S)
KVAR	KILOVAR(S)
KW	KILOWATT(S)
LP	LIGHTING PANEL
LPS	LOW PRESSURE SODIUM
MATV	MASTER ANTENNA TELEVISION
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MIL(S)
MAGSTR	MAGNETIC STARTER
MH	MANHOLE
MIC	MICROPHONE
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MUH	MAKE-UP AIR UNIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NONFUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOAD ELEMENT
PC	PLUMBING CONTRACTOR
PE	PHOTO ELECTRIC CELL
PF	POWER FACTOR
PL	PILOT LIGHT
PP	POWER PANEL
PRI	PRIMARY
PS	PULL SWITCH
PTZ	PAN/TILT/ZOOM CAMERA
R	RELAY
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
SATV	SATELLITE ANTENNA TELEVISION
SDP	SCHOOL DISTRICT OF PHILADELPHIA
SEC	SECONDARY
SP	SINGLE POLE
SPKR	SPEAKER
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
T	TELEPHONE
TC	TIME CLOCK
TD	TIME DELAY
TDC	TIME DELAYED CLOSED
TDO	TIME DELAYED OPEN
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UG	UNDER GROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE(S)
VAR	VOLT AMPS REACTIVE
VP	VAPOR PROOF
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF



PROJECT LOCATION

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE
E-001	ELECTRICAL COVER SHEET
ED-100	BASEMENT FIRE ALARM SYSTEM - DEMOLITION PLAN
ED-101	FIRST FLOOR FIRE ALARM SYSTEM - DEMOLITION PLAN
ED-102	SECOND FLOOR FIRE ALARM SYSTEM - DEMOLITION PLAN
E-100	BASEMENT FIRE ALARM SYSTEM - NEW WORK PLAN
E-101	FIRST FLOOR FIRE ALARM SYSTEM - NEW WORK PLAN
E-102	SECOND FLOOR FIRE ALARM SYSTEM - NEW WORK PLAN
E-501	SCHEDULES AND DIAGRAMS

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PENNSYLVANIA LICENSE NO:

DATE

MEP Engineer

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Philadelphia, PA 19103 U.S.A.
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ISSUE FOR BID
APRIL 23, 2021

NO.	DATE	REVISION
10		
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1	5.21.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
ANNA B. DAY
6324 CRITTENDENT STREET
PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
ELECTRICAL COVER SHEET

DRAWING SCALE AS NOTED	
LOCATION NO. 6200	FILE NO.
DRAWN BY AD	CHECKED BY SPK

B-081C OF 2018 / 19

DRAWING NO.
E - 001.0

SHEET 1 OF 8

FIRE ALARM GENERAL NOTES

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.

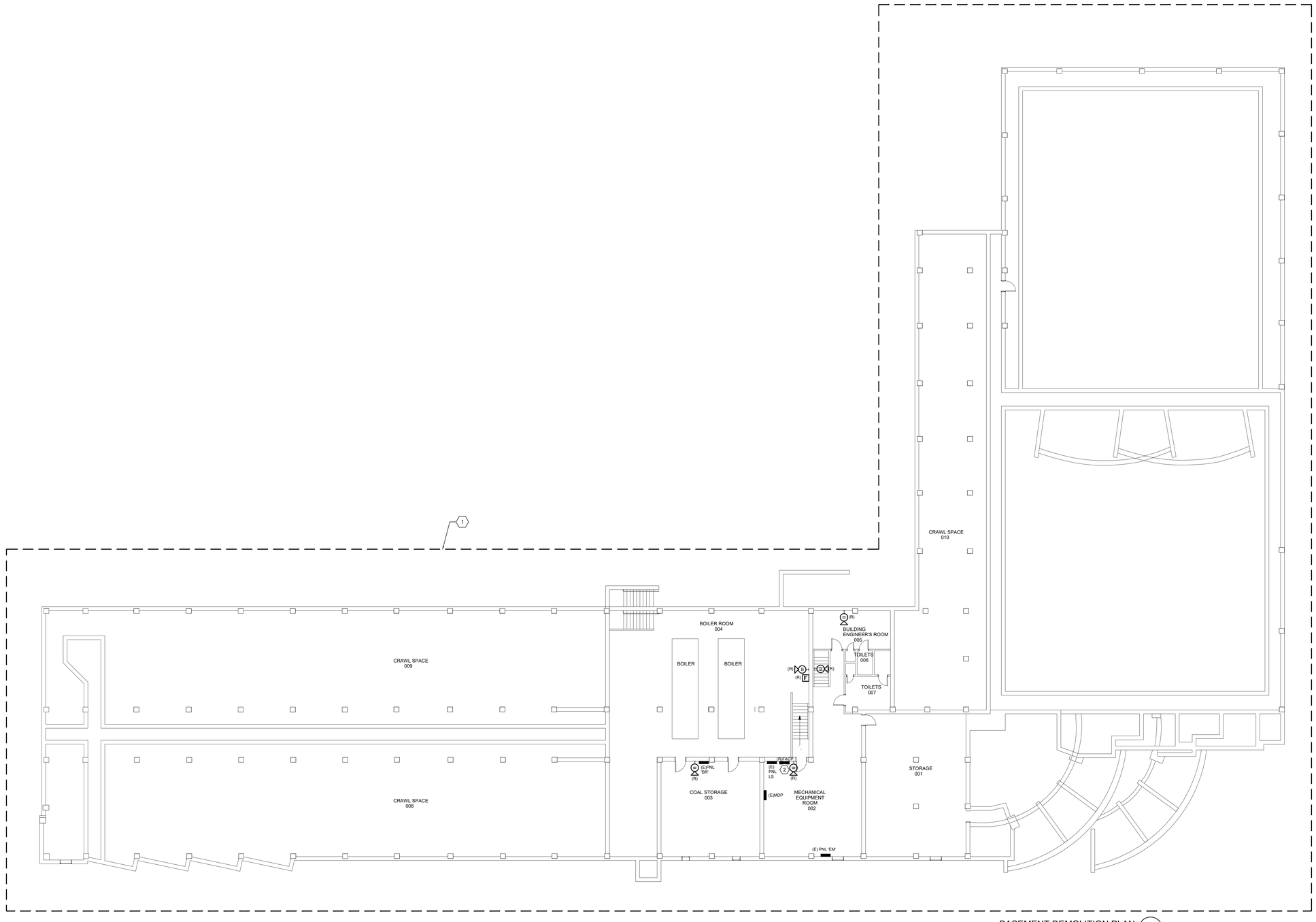
C. FLOOR PLAN SHOWN IS FOR SCHEMATIC PURPOSES ONLY. UNLESS OTHERWISE NOTED, CONTRACTOR IS TO REMOVE ALL FIRE ALARM DEVICES, WIRING, JUNCTION BOXES, CONDUITS, AND ASSOCIATED APPURTENANCES WITHIN SCOPE OF DEMOLITION. CONTRACTOR SHALL REMOVE ALL FIRE ALARM CIRCUITRY BACK TO SOURCE, FOR ALL DEVICES TO BE 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 120VOLT, 20AMP 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 KEY NOTES	
1	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).
2	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 120V, 20AMP 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 DEMOLITION PLAN
3/32" = 1'-0"

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1	4.23.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
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PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
BASEMENT FIRE ALARM SYSTEM - DEMOLITION PLAN

DRAWING SCALE AS NOTED	
LOCATION NO. 6200	FILE NO.
DRAWN BY AD	CHECKED BY SPK

B-081C OF 2018 / 19

DRAWING NO.
ED - 100.0

SHEET 2 OF 8

FIRE ALARM GENERAL NOTES

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.

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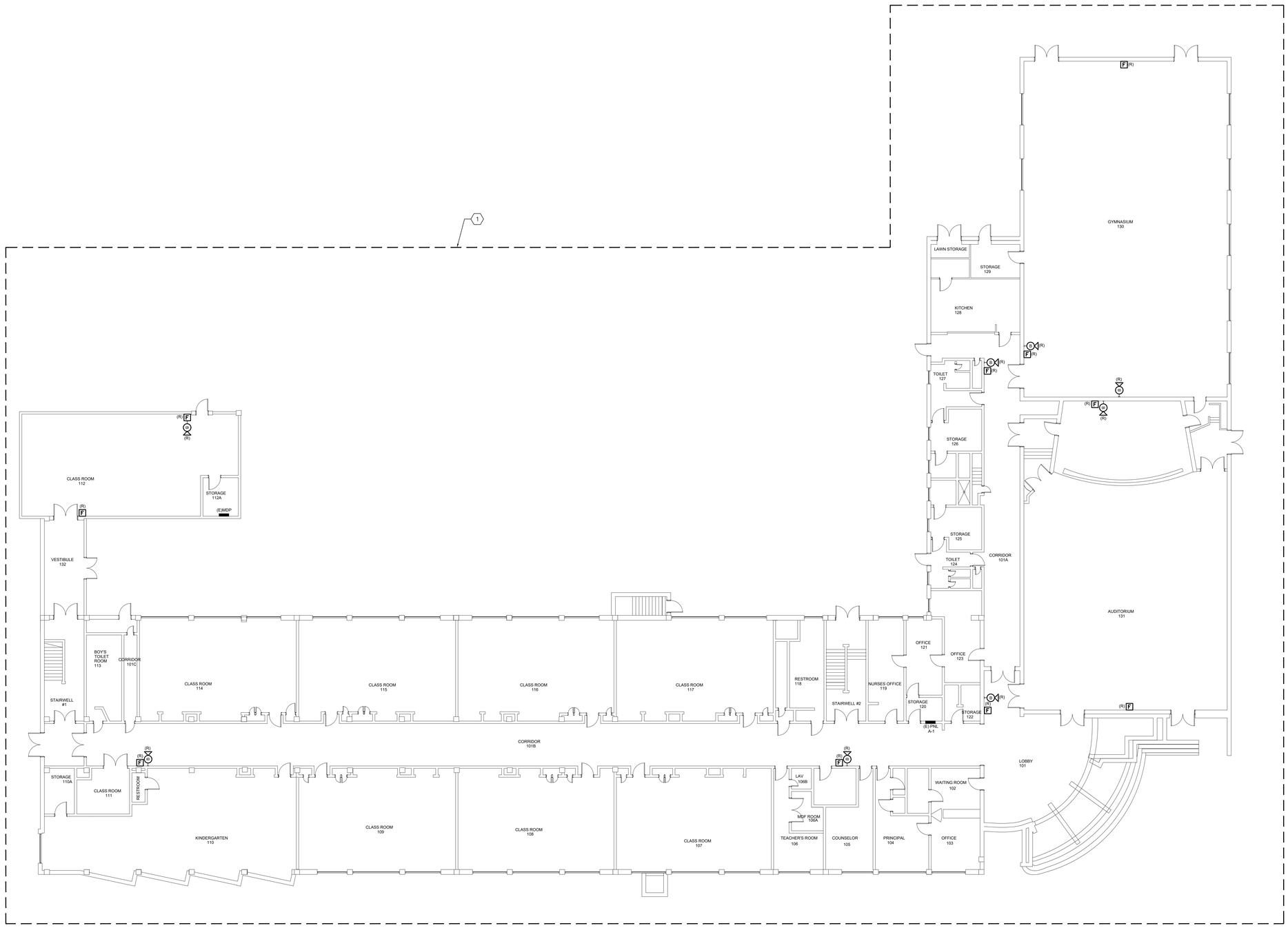

FIRST FLOOR DEMOLITION PLAN 1
3/32" = 1'-0"

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PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
FIRST FLOOR FIRE ALARM SYSTEM - DEMOLITION PLAN

DRAWING SCALE: AS NOTED	
LOCATION NO.: 6200	FILE NO.
DRAWN BY: AD	CHECKED BY: SPK

8-081C OF 2018 / 19

DRAWING NO.
ED - 101.0

SHEET 3 OF 8

FIRE ALARM GENERAL NOTES

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.

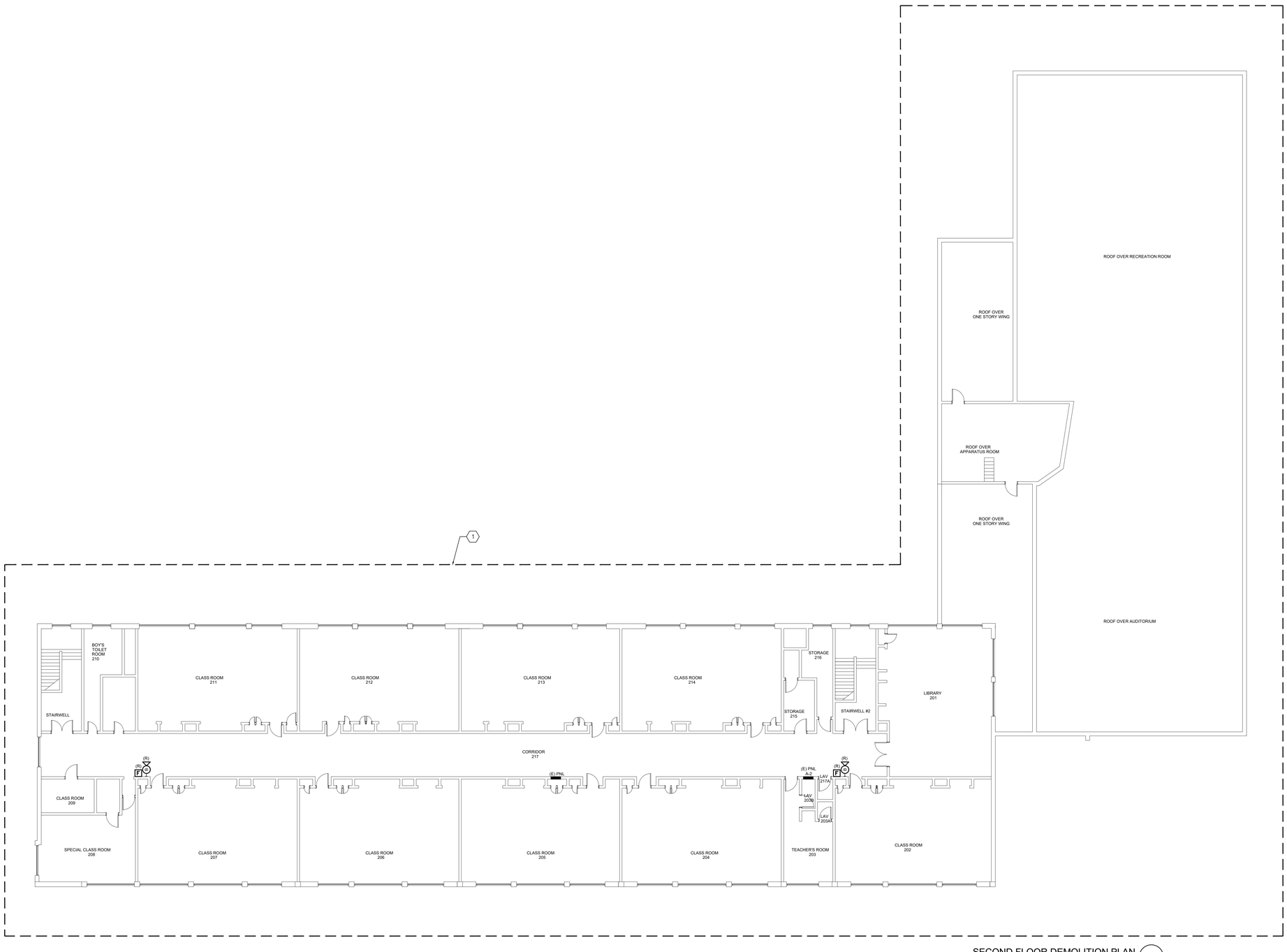
C. FLOOR PLAN SHOWN IS FOR SCHEMATIC PURPOSES ONLY. UNLESS OTHERWISE NOTED, CONTRACTOR IS TO REMOVE ALL FIRE ALARM DEVICES, WIRING, JUNCTION BOXES, CONDUITS, AND ASSOCIATED APPURTENANCES WITHIN SCOPE OF DEMOLITION. CONTRACTOR SHALL REMOVE ALL FIRE ALARM CIRCUITRY BACK TO SOURCE, FOR ALL DEVICES TO BE 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 120VOLT, 20AMP 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 KEY NOTES	
1	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).



SECOND FLOOR DEMOLITION PLAN
3/32" = 1'-0"

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET
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SEAL:

SEAN P. PIC-KELL
PENNSYLVANIA LICENSE NO: DATE

MEP Engineer

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ISSUE FOR BID
APRIL 23, 2021

NO.	DATE	REVISION
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1	5.21.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
ANNA B. DAY
6324 CRITTENDENT STREET
PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
SECOND FLOOR FIRE ALARM SYSTEM - DEMOLITION PLAN

DRAWING SCALE: AS NOTED	
LOCATION NO.: 6200	FILE NO.: XX
DRAWN BY: AD	CHECKED BY: SPK

B-081C OF 2018 / 19

DRAWING NO.
ED - 102.0

SHEET 4 OF 8

FIRE ALARM GENERAL NOTES:

A. **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. ALL FINAL DEVICE & EQUIPMENT LOCATIONS AND CONDUIT ROUTES SHALL BE COORDINATED WITH THE AIR AND ENVIRONMENTAL DOCUMENT TO AVOID ALL ASBESTOS CONTAINING WALLS, CEILINGS, AND FLOORS. THERE SHALL BE NO COST TO THE SCHOOL DISTRICT OF PHILADELPHIA FOR DEVICES, EQUIPMENT AND CONDUIT WHICH MUST BE RELOCATED TO AVOID ALL ASBESTOS CONTAINING WALLS, CEILINGS, AND FLOORS.**

B. SEE DRAWING E-501, FIRE ALARM SYSTEM RISER NOTES #13 FOR SPARE PARTS EQUIPMENT/DEVICES REQUIREMENTS.

C. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E-001.

D. ALL NEW FIRE ALARM DETECTION AND SUPPRESSION DEVICES SHALL BE INSTALLED, TESTED AND ACCEPTED PRIOR TO OCCUPANCY. THE LOCAL AUTHORITY HAVING JURISDICTION SHALL PERFORM ALL FINAL ACCEPTANCES.

E. ALL FIRE ALARM POINTS MUST BE TRANSMITTED TO THE CENTRAL MONITORING STATION. EACH FIRE ALARM POINT MUST SEND THE CENTRAL MONITORING STATION A RESTORE CODE FOR EACH POINT.

F. ALL DEVICES CONTAINING END OF LINE RESISTORS SHALL BE LABELED 'EOL'.

G. PROVIDE SIGNAGE AT EACH MANUAL PULL STATION, SIGN MUST BE MOUNTED IMMEDIATELY ADJACENT TO THE MANUAL PULL STATION. THE SIGN SHALL READ "INCASE OF FIRE: SOUND ALARM AND CALL THE FIRE DEPARTMENT".

H. ALL FIRE ALARM WIRING SHALL BE IN METAL CONDUIT. PROVIDE GALVANIZED RIGID STEEL CONDUIT FOR ALL RISER CONDUITS AND ALL CONDUITS IN MECHANICAL, ELECTRICAL AND BOILER ROOMS. PAINT ALL JUNCTION BOXES WITH RED COLOR PAINT AND LABEL AS "FIRE ALARM".

I. THE VENDOR/CONTRACTOR/MANUFACTURER TO RECOMMEND FOR APPROVAL THE QUANTITY AND LOCATION OF ALL NETWORK EXTENDER/DATA GATHERING PANELS WITHIN SHOP DRAWING SUBMITTALS. LOCATIONS SHOWN ON PLAN ARE BASED ON OWNER/ENGINEER PREFERRED LOCATIONS.

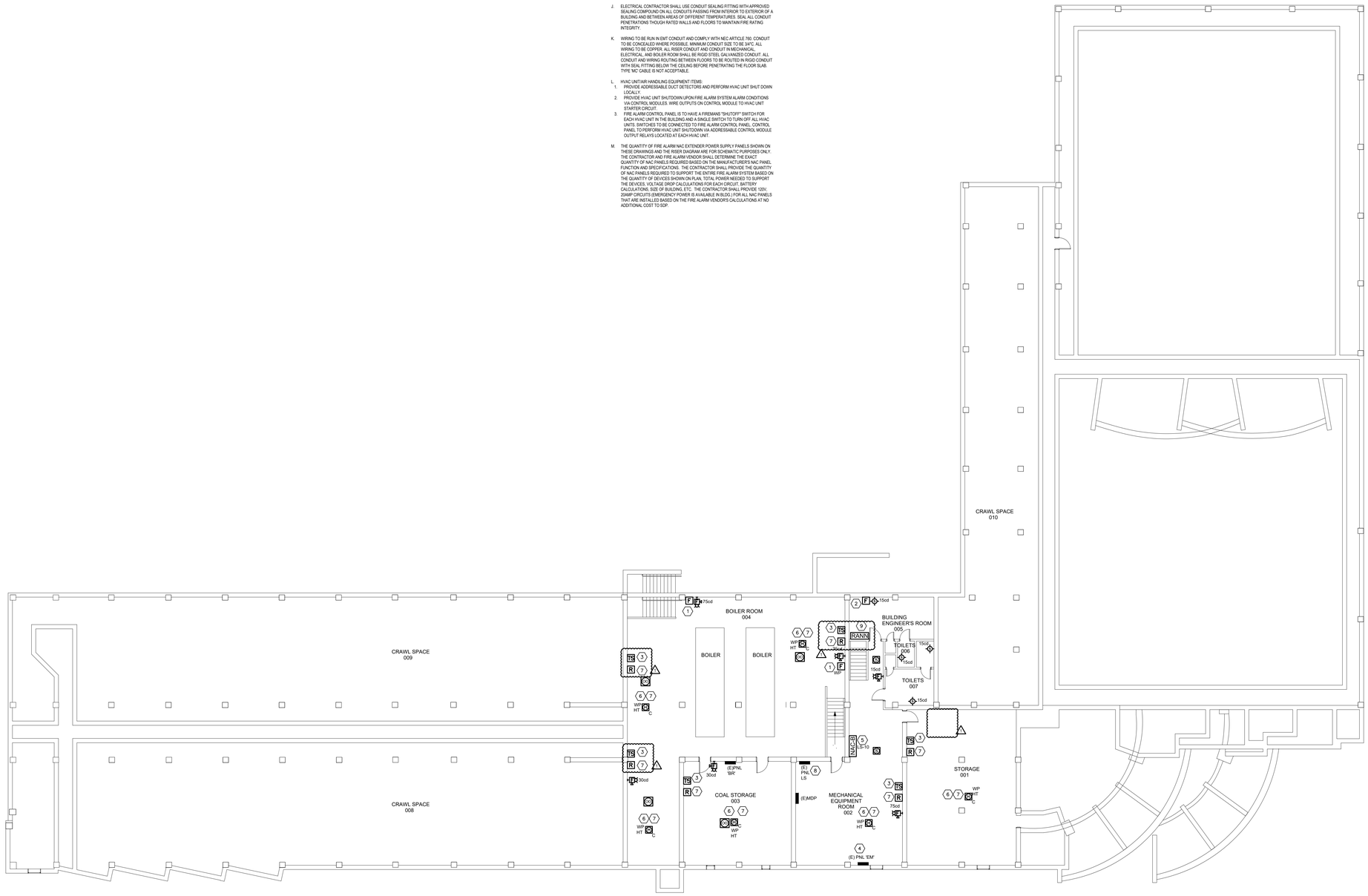
J. ELECTRICAL CONTRACTOR SHALL USE CONDUIT SEALING FITTING WITH APPROVED SEALING COMPOUND ON ALL CONDUITS PASSING FROM INTERIOR TO EXTERIOR OF A BUILDING AND BETWEEN AREAS OF DIFFERENT TEMPERATURES. SEAL ALL CONDUIT PENETRATIONS THOUGH RATED WALLS AND FLOORS TO MAINTAIN FIRE RATING INTEGRITY.

K. WIRING TO BE RUN IN EMT CONDUIT AND COMPLY WITH NEC ARTICLE 760. CONDUIT TO BE CONCEALED WHERE POSSIBLE. MINIMUM CONDUIT SIZE TO BE 3/4"C. ALL WIRING TO BE COPPER. ALL RISER CONDUIT AND CONDUIT IN MECHANICAL, ELECTRICAL, AND BOILER ROOM SHALL BE RIGID STEEL GALVANIZED CONDUIT. ALL CONDUIT AND WIRING ROUTING BETWEEN FLOORS TO BE ROUTED IN RIGID CONDUIT WITH SEAL FITTING BELOW THE CEILING BEFORE PENETRATING THE FLOOR SLAB. TYPE 'MC' CABLE IS NOT ACCEPTABLE.

L. HVAC UNIT/AIR HANDLING EQUIPMENT ITEMS:
1. PROVIDE ADDRESSABLE DUCT DETECTORS AND PERFORM HVAC UNIT SHUT DOWN LOCALLY.
2. PROVIDE HVAC UNIT SHUTDOWN UPON FIRE ALARM SYSTEM ALARM CONDITIONS VIA CONTROL MODULES. WIRE OUTPUTS ON CONTROL MODULE TO HVAC UNIT STARTER CIRCUIT.
3. FIRE ALARM CONTROL PANEL IS TO HAVE A FIREMANS "SHUTOFF" SWITCH FOR EACH HVAC UNIT IN THE BUILDING AND A SINGLE SWITCH TO TURN OFF ALL HVAC UNITS. SWITCHES TO BE CONNECTED TO FIRE ALARM CONTROL PANEL, CONTROL PANEL TO PERFORM HVAC UNIT SHUTDOWN VIA ADDRESSABLE CONTROL MODULE OUTPUT RELAYS LOCATED AT EACH HVAC UNIT.

M. 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, 20AMP CIRCUITS (EMERGENCY POWER IS AVAILABLE IN BLDG.) FOR ALL NAC PANELS THAT ARE INSTALLED BASED ON THE FIRE ALARM VENDOR'S CALCULATIONS AT NO ADDITIONAL COST TO SDP.

FIRE ALARM KEY NOTES	
1	PROVIDE PULL STATION WITH PROTECTIVE COVER AND ALARM.
2	PROVIDE A PULL STATION WITH PROVIDE COVER WITHIN BUILDING ENGINEER'S OFFICE. FIELD COORDINATE EXACT LOCATION WITH ROOM WITH SDP AND BUILDING ENGINEER.
3	EACH HEAT DETECTOR SHALL HAVE REMOTE TEST SWITCH AND LED ALARM INDICATORS. REMOTE TEST SWITCH AND LED ALARM INDICATORS SHALL BE WALL MOUNTED AT 5FT A.F.F.
4	PROVIDE A NEW 120V, 20AMP POWER CIRCUIT FROM PANELBOARD IDENTIFIED FOR FACP SYSTEM PRINTER RECEPTACLE. PROVIDE CIRCUIT WITH (2) #12 + (1) #12 GND. IN 3/4" CONDUIT.
5	NEW FIRE ALARM REMOTE BOOSTER POWER SUPPLY (NAC). PROVIDE 120V, 20AMP POWER CIRCUIT FROM PANELBOARD IDENTIFIED FOR FIRE ALARM REMOTE BOOSTER POWER SUPPLIES (NAC). PROVIDE CIRCUIT WITH (2) #12 + (1) #12 GND. IN 3/4" CONDUIT.
6	FIELD COORDINATE EXACT LOCATIONS OF HEAT DETECTORS. DEVICES TO BE MOUNTED BELOW ALL DUCTWORK, PIPING, AND CONDUIT. DEVICES SHALL BE CLEAR OF ANY OBSTRUCTIONS. DEVICES SHALL BE MOUNTED TO UNISTRUT FRAMING, SECURELY FASTENED TO CEILING.
7	PROVIDE WEATHERPROOF CONVENTIONAL TYPE FIRE ALARM DEVICES WITHIN MECHANICAL/BOILER ROOM. PROVIDE A REMOTE RELAY MODULE FOR ALL CONVENTIONAL TYPE NOTIFICATION AND INITIATION DEVICES WITHIN THE MECHANICAL/BOILER ROOM.
8	EXISTING PANEL BOARD 'LS', 100AMP, 120/240V, 1-PH, 3-W. PANEL BOARD MANUFACTURER IS PARK METAL PROD. CO., TYPE NLAB SERIAL NO. EM 28154. PROVIDE NEW 120V, 20AMP BRANCH CIRCUIT BREAKERS FOR NEW FIRE ALARM CIRCUITS. PROVIDE (2)#12 + (1)#12 GND. IN 3/4" CONDUIT FOR EACH NEW CIRCUIT IDENTIFIED ON PLAN.
9	COORDINATE EXACT LOCATION OF REMOTE ANNUNCIATOR IN ENGINEERS OFFICE WITH SDP PRIOR TO INSTALLATION. RELOCATE EXISTING FURNITURE AS NECESSARY FOR INSTALLATION OF NEW DEVICES.



BASEMENT NEW WORK PLAN 1
3/32" = 1'-0"

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

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MEP Engineer

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1	5.21.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
ANNA B. DAY
6324 CRITTENDENT STREET
PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
BASEMENT FIRE ALARM SYSTEM - NEW WORK PLAN

DRAWING SCALE AS NOTED	
LOCATION NO. 6200	FILE NO.
DRAWN BY AD	CHECKED BY SPK

B-081C OF 2018 / 19

DRAWING NO.
E - 100.0

SHEET 5 OF 8

FIRE ALARM GENERAL NOTES

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.

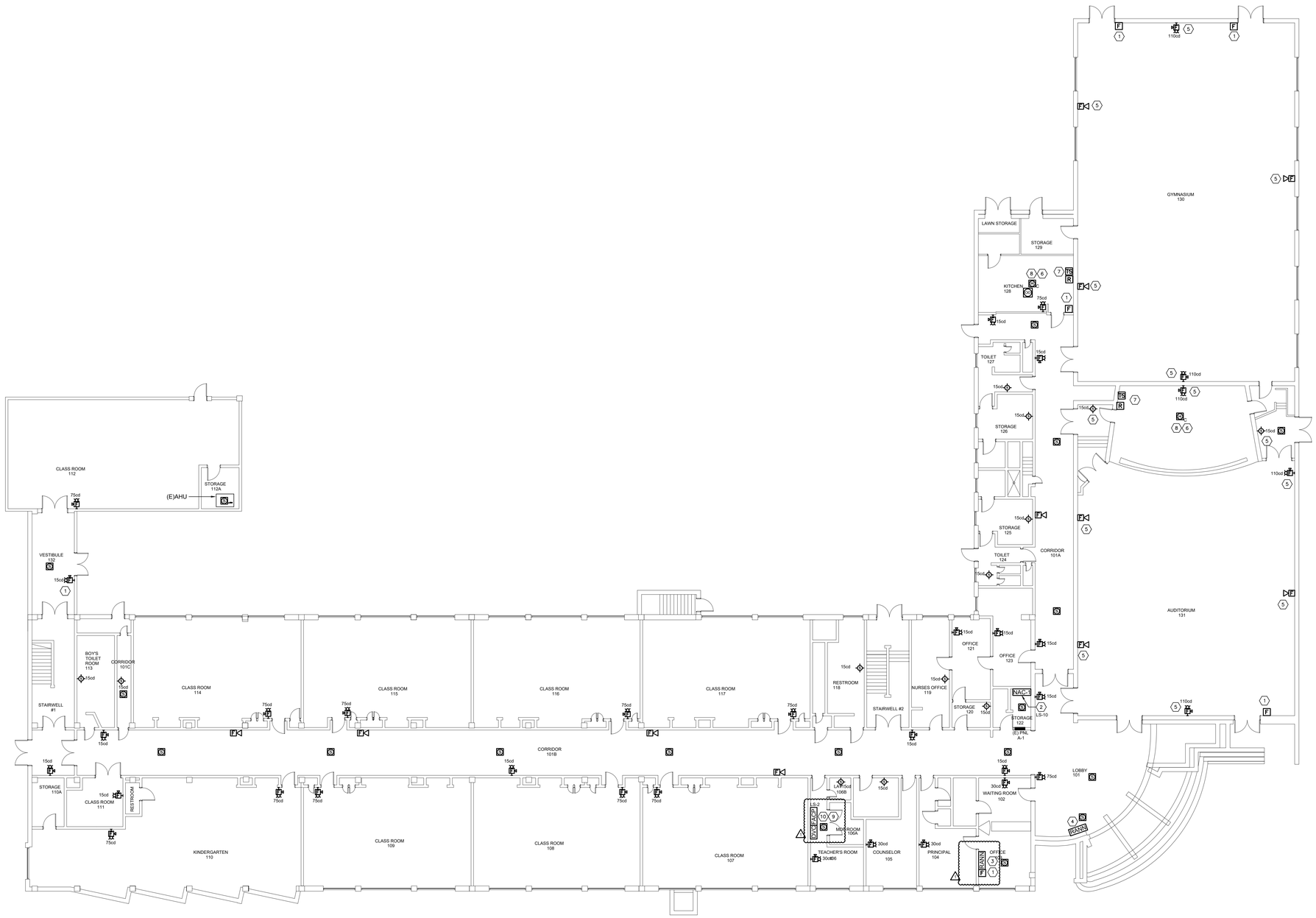
D. LEGALLY DISPOSE OF DEVICES INDICATED TO BE REMOVED. OFFER EQUIPMENT TO OWNER AND DISPOSE OF EQUIPMENT THE OWNER DOES NOT WISH TO RETAIN.

E. ALL EXISTING 120VOLT, 20AMP 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 (ABI) 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 KEY NOTES

1	PROVIDE PULL STATION WITH PROTECTIVE COVER AND ALARM.
2	NEW FIRE ALARM REMOTE BOOSTER POWER SUPPLY (NAC). PROVIDE 120V, 20AMP EMERGENCY POWER CIRCUIT FROM PANELBOARD IDENTIFIED FOR FIRE ALARM REMOTE BOOSTER POWER SUPPLIES (NAC). PROVIDE CIRCUIT WITH (2) #12 + (1) #12 GND. IN 3/4" CONDUIT.
3	COORDINATE EXACT LOCATION OF REMOTE ANNUNCIATOR AND PULL STATION IN MAIN OFFICE WITH SDP PRIOR TO INSTALLATION. REMOTE ANNUNCIATOR AND PULL STATION TO BE LOCATED NEAR PA SYSTEM MICROPHONE. RELOCATE TACK BOARD AND SHELF AS NECESSARY FOR INSTALLATION OF NEW DEVICES.
4	COORDINATE EXACT LOCATION OF REMOTE ANNUNCIATOR AND PULL STATIONS IN MAIN ENTRY LOBBY WITH SDP PRIOR TO INSTALLATION.
5	PROVIDE WIREGUARDS OVER ALL INITIATING AND NOTIFICATION DEVICES IN AUDITORIUM AND RECREATION ROOM, UNLESS PREVIOUSLY NOTED OTHERWISE.
6	PROVIDE CONVENTIONAL TYPE FIRE ALARM DEVICES . PROVIDE A REMOTE RELAY MODULE FOR ALL CONVENTIONAL TYPE NOTIFICATION AND INITIATION DEVICES WITHIN THE MECHANICAL/BOILER ROOM.
7	EACH HEAT DETECTOR SHALL HAVE REMOTE TEST SWITCH AND LED ALARM INDICATORS. REMOTE TEST SWITCH AND LED ALARM INDICATORS SHALL BE WALL MOUNTED AT 5FT A.F.F.
8	FIELD COORDINATE EXACT LOCATIONS OF HEAT DETECTORS. DEVICES TO BE MOUNTED BELOW ALL DUCTWORK, PIPING, AND CONDUIT. DEVICES SHALL BE CLEAR OF ANY OBSTRUCTIONS. DEVICES SHALL BE MOUNTED TO UNISTRUT FRAMING, SECURELY FASTENED TO CEILING.
9	NEW FACP. PROVIDE 120V, 20AMP CIRCUIT FROM PANELBOARD LS CRCUIT 2 FOR FACP. PROVIDE CIRCUIT WITH (3) #12 + (1) #12 GND. IN 3/4" CONDUIT.
10	ELECTRICAL CONTRACTOR SHOULD INCLUDED ADDITIONAL 300 FEET OF CONDUITS AND CONDUCTORS AND INSTALLATION LABOR IN BASE BID. COORDINATE EXACT FACP LOCATION WITH SDP CONSTRUCTION MANAGER.



FIRST FLOOR NEW WORK PLAN 1
3/32" = 1'-0"

THE SCHOOL DISTRICT OF PHILADELPHIA

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APRIL 23, 2021

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1	5.21.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
ANNA B. DAY
6324 CRITTENDENT STREET
PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
FIRST FLOOR FIRE ALARM SYSTEM - NEW WORK PLAN

DRAWING SCALE AS NOTED	
LOCATION NO. 6200	FILE NO. XX
DRAWN BY AD	CHECKED BY SPK

B-081C OF 2018 / 19

DRAWING NO.
E - 101.0

SHEET 6 OF 8

FIRE ALARM GENERAL NOTES

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, SOP, AND THE AUTHORITY HAVING JURISDICTION THAT THE NEW SYSTEM IS APPROVED AND THE EXISTING SYSTEM CAN BE REMOVED.

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FIRE ALARM KEY NOTES	
1	PROVIDE PULL STATION WITH PROTECTIVE COVER AND ALARM.
2	NEW FIRE ALARM REMOTE BOOSTER POWER SUPPLY (NAC). PROVIDE 120V, 20AMP EMERGENCY POWER CIRCUIT FROM PANELBOARD IDENTIFIED FOR FIRE ALARM REMOTE BOOSTER POWER SUPPLIES (NAC). PROVIDE CIRCUIT WITH (2) #12 + (1) #12 GND. IN 3/4" CONDUIT.
3	PROVIDE WEATHERPROOF CONVENTIONAL TYPE FIRE ALARM DEVICES WITHIN MECHANICAL/BOILER ROOM. PROVIDE A REMOTE RELAY MODULE FOR ALL CONVENTIONAL TYPE NOTIFICATION AND INITIATION DEVICES WITHIN THE MECHANICAL/BOILER ROOM.
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SECOND FLOOR NEW WORK PLAN (1)
3/32" = 1'-0"

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1	5.21.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
ANNA B. DAY
6324 CRITTENDENT STREET
PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
SECOND FLOOR FIRE ALARM SYSTEM - NEW WORK PLAN

DRAWING SCALE AS NOTED	
LOCATION NO. 6200	FILE NO.
DRAWN BY AD	CHECKED BY SPK

B-081C OF 2018 / 19

DRAWING NO.
E - 102.0

SHEET 7 OF 8

PANEL: (E) LS
LOCATION: BASEMENT
FED FROM:

VOLTAGE: 120/ 240V 1 PHASE 3 WIRE
MOUNTING: SURFACE □ FLUSH ■
DENOTES ARC FAULT INTERRUPTER C.B.
DENOTES GFI C.B. RESTD

MAINS
BUS: 100A AMPS 10000 A/C
■ LUGS ONLY
□ MCB ____ AMPS
COPPER BUS ONLY

CIR. #	EQUIPMENT SERVED	FEEDER SIZE Wire	GND	I.G.	Breaker Amps	Poles	LOAD KVA L1	L2	Ø	LOAD KVA L1	L2	Breaker Amps	Poles	FEEDER SIZE Wire	GND	I.G.	EQUIPMENT SERVED	CIR. #
1	(E) LOAD	12	12	-	20	1	0.3		A	1.5		20	1	12	12	-	(N) FACP, PRINTER, RAWN	2
3	(E) LOAD	12	12	-	20	1		0.6	B		0.6	20	1	12	12	-	(E) IBM EQUIPMENT	4
5	(E) PRIV. TELEPHONE	12	12	-	20	1	0.4		A	0.4		20	1	12	12	-	(E) LOAD	6
7	(E) P.A. SYSTEM	12	12	-	20	1		0.5	B		0.6	20	1	12	12	-	(E) LOAD	8
9	(E) LOAD	12	12	-	20	1	0.7		A	1.5		20	1	12	12	-	(N) NAC-B & NAC-1&2	10
Remarks:		LINE TOTAL					1.4	1.1		3.4	1.2							
		TOTAL CONN. KVA					7.1											
		TOTAL CONN. AMPS					29.6											

PANEL SHALL BE EQUIPPED WITH BUSSES FOR ALL CB'S AND SPACES SHOWN
□ 200% NEUTRAL BUS □ FEED THRU LUGS
□ ISOLATED GROUND BUS
■ GROUND BUS

PANEL: (E) EM
LOCATION: BASEMENT
FED FROM:

VOLTAGE: 120/ 240V 1 PHASE 3 WIRE
MOUNTING: SURFACE □ FLUSH ■
DENOTES ARC FAULT INTERRUPTER C.B.
DENOTES GFI C.B. RESTD

MAINS
BUS: 100A AMPS 10000 A/C
■ LUGS ONLY
□ MCB ____ AMPS
COPPER BUS ONLY

CIR. #	EQUIPMENT SERVED	FEEDER SIZE Wire	GND	I.G.	Breaker Amps	Poles	LOAD KVA L1	L2	Ø	LOAD KVA L1	L2	Breaker Amps	Poles	FEEDER SIZE Wire	GND	I.G.	EQUIPMENT SERVED	CIR. #
1	(E) AUDITORIUM	12	12	-	20	1	1.0		A	0.3		20	1	12	12	-	(E) LOAD	2
3	(E) FIRE ALARM PANEL	12	12	-	20	1		0.5	B		1.0	20	1	12	12	-	(E) 1ST FLR. CORRIDOR	4
5	(N) FIRE ALARM PANEL	12	12	-	20	1	0.5		A	1.0		20	1	12	12	-	(E) 1ST FLR. CORRIDOR	6
7	(E) EXITS BASEMENT	12	12	-	20	1		0.3	B		1.0	20	1	12	12	-	(E) GYM HALL	8
9	(E) LOAD	12	12	-	20	1	0.3		A	1.0		20	1	12	12	-	(E) 2ND FLR CORRIDOR	10
11	(E) LOAD	12	12	-	20	1		0.3	B		0.5	20	1	12	12	-	(E) LOAD	12
13	(E) EXIT LIGHTS	12	12	-	20	1	0.3		A	0.5		20	1	12	12	-	(E) LOAD	14
15	(E) EXTERIOR ENTRANCE	12	12	-	20	1		0.5	B		0.5	20	1	12	12	-	(E) LOAD	16
17	(E) GYMNASIUM	12	12	-	20	1	1.0		A	0.5		20	1	12	12	-	(E) LOAD	18
19	(E) STAIRS 1 & 2	12	12	-	20	1		1.0	B		0.5	20	1	12	12	-	(E) LOAD	20
21	(E) BASEMENT	12	12	-	20	1	1.0		A	0.5		20	1	12	12	-	(E) LOAD	22
23	(E) BACK HALLWAY	12	12	-	20	1		1.0	B		0.3	20	1	12	12	-	(E) BELL+TLN/TC. CIRC.	24
Remarks:		LINE TOTAL					4.1	3.6		3.8	3.8							
		TOTAL CONN. KVA					15.2											
		TOTAL CONN. AMPS					63.3											

PANEL SHALL BE EQUIPPED WITH BUSSES FOR ALL CB'S AND SPACES SHOWN
□ 200% NEUTRAL BUS □ FEED THRU LUGS
□ ISOLATED GROUND BUS
■ GROUND BUS

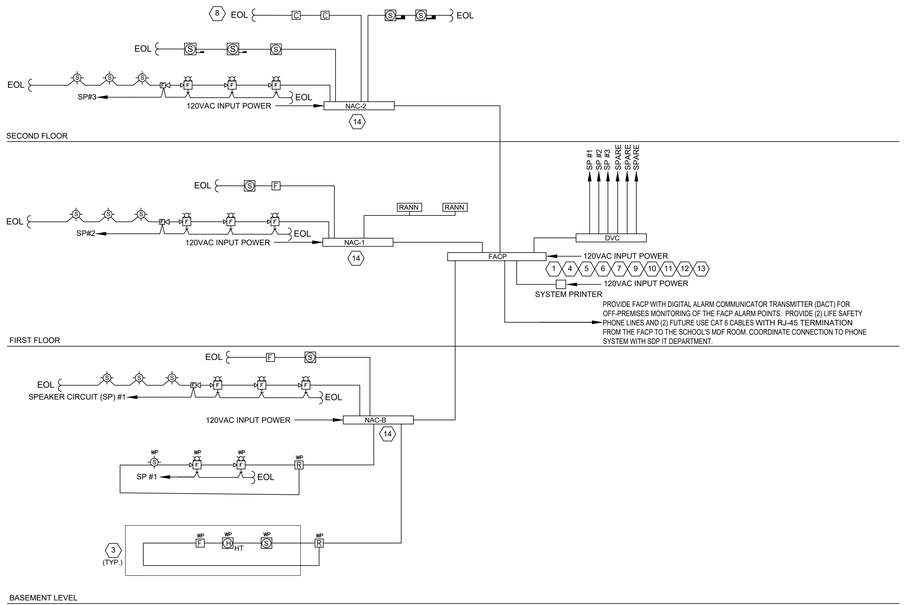
	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	SYSTEM OUTPUTS	SOUND A PULSING AUDIBLE AND FLASH THE GENERAL ALARM LED	SOUND A PULSING AUDIBLE AND FLASH THE GENERAL SUPERVISORY LED	SOUND A PULSING AUDIBLE AND FLASH THE GENERAL TROUBLE LED	VISUALLY ANNUNCIATE ZONE, LOCATION & THE TIME OF INITIATION.	RECORD EVENT AND PRINT TO SYSTEM PRINTER		ACTUATE ALL VISUAL APPLIANCES (STROBES) TO FLASH	ACTUATE ALL AUDIBLE APPLIANCES (HORNS) TO SOUND ALARM	TRANSMIT "SMOKE DETECTION ALARM" SIGNAL TO CENTRAL STATION (SDP MAIN OFFICE)	TRANSMIT "HEAT DETECTION ALARM" SIGNAL TO CENTRAL STATION (SDP MAIN OFFICE)	TRANSMIT "PULL STATION ALARM" SIGNAL TO CENTRAL STATION (SDP MAIN OFFICE)	SHUTDOWN ALL HVAC UNITS, 2,000 CFM AND LARGER.	SHUTDOWN LOCAL HVAC UNIT	RECALL RESPECTIVE ELEVATORS PRIMARY RECALL FLOOR	RECALL RESPECTIVE ELEVATORS ALTERNATE RECALL FLOOR
		'FACP' & REMOTE ANNUN.						NOTIFICATION					FIRE SAFETY CONTROL		
1	AREA SMOKE DETECTOR	•			•	•		•	•	•			•			
2	AREA HEAT DETECTOR	•			•	•		•	•		•		•			
3	DUCT MOUNTED SMOKE DETECTOR (@ AC & HV UNITS)	•			•	•				•				•		
4	MANUAL PULL STATION	•			•	•		•	•			•	•			
5	FIRE ALARM POWER FAILURE		•		•	•										
6	FIRE ALARM LOW BATTERY			•	•	•										
7	OPEN CIRCUIT			•	•	•										
8	GROUND FAULT			•	•	•										
9	NOTIFIC. APPLIANCE SHORT			•	•	•										

NOTE: SCHOOL DISTRICTS REQUIREMENTS MAY BE DIFFERENT THAN INDICATED IN EVENT MATRIX. BEFORE PROGRAMMING THE FIRE ALARM CONTROL PANEL, THE CONTRACTOR SHALL VERIFY EVENT MATRIX WITH SCHOOL DISTRICT MAINTENANCE STAFF.

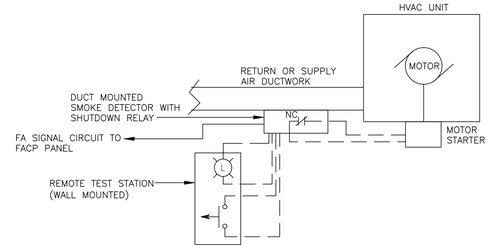
FIRE ALARM SYSTEM INPUT/OUTPUT EVENT MATRIX 2

FIRE ALARM SYSTEM RISER NOTES:

1. 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.
2. NOT USED.
3. 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.
5. ALL CONCEALED INITIATING DEVICES SHOULD HAVE A REMOTE INDICATING LIGHT LOCATED IN AN ACCESSIBLE LOCATION.
6. 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.
7. THE INSTALLING ELECTRICAL CONTRACTOR SHOULD BE ADVISED TO PREPARE THE FOLLOWING DOCUMENTATION AT THE PROJECT CLOSE-OUT:
   1. 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).
   3. MANUAL CONTAINING A 'SEQUENCE OF ALARM' AND A MANUFACTURERS SHEET FOR EACH DEVICE INSTALLED IN THE FIRE ALARM SYSTEM INCLUDING THE MAIN CONSOLE.
8. 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.
9. 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.
10. ALL NEW WORK TO BE DONE IN ACCORDANCE WITH:
    1. THE 2017 NATIONAL ELECTRIC CODE
    2. NFPA 72, NATIONAL FIRE ALARM CODE, LATEST EDITION
    3. REQUIREMENTS OF AUTHORITY HAVING JURISDICTION (AHJ)
    4. 2018 IBC CODE AND PA UNIFORM CONSTRUCTION CODE (PAUCC)
    5. CITY OF PHILADELPHIA FIRE ALARM CODE, LATEST EDITION
    6. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
11. CONTRACTOR IS RESPONSIBLE SCHEDULE/ARRANGE, AND PAY FOR ALL PERMITS AND INSPECTIONS.
12. THE NEW FIRE ALARM SYSTEM IS TO BE ACCEPTABLE BY FIRE MARSHALL BEFORE THE REMOVAL OF THE EXISTING FIRE ALARM SYSTEM.
13. 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. (10) SMOKE DETECTORS
    2. (3) 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. RATED
    5. (2) MANUAL PULL STATIONS WITH PROTECTIVE COVER AND ALARM
    6. (5) COMBINATION HORN/STROBE NOTIFICATION DEVICE
    7. (5) VISUAL STROBE NOTIFICATION DEVICE.
    8. (2) WEATHER PROOF HEAT DETECTORS (CONVENTIONAL TYPE, FIXED TEMP.)
    9. (5) SPEAKER NOTIFICATION DEVICE.
    10. (2) DUCT DETECTORS WITH HOUSING.
14. 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 COST TO SDP.



FIRE ALARM SYSTEM RISER DIAGRAM 1



HVAC UNIT SHUTDOWN CONTROL DIAGRAM - TYPICAL FOR ALL HVAC UNITS 3

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SEAL:

SEAN P. PIC-KELL
PENNSYLVANIA LICENSE NO:
DATE

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ISSUE FOR BID
APRIL 23, 2021

NO.	DATE	REVISION
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1	5.21.2021	ADDENDUM NO. 02

SCHOOL & LOCATION
ANNA B. DAY
6324 CRITTENDENT STREET
PHILADELPHIA, PA 19138

PROJECT TITLE
FIRE ALARM SYSTEM REPLACEMENT

DRAWING TITLE
SCHEDULES AND DIAGRAMS

DRAWING SCALE AS NOTED	
LOCATION NO. 6200	FILE NO.
DRAWN BY AD	CHECKED BY SPK

B-081C OF 2018 / 19

DRAWING NO.
E -501.0
SHEET 8 OF 8