ADDENDUM No. 04

Subject: Wright Elementary School – Major HVAC Renovation
SDP Contract No.

   GC: B-089(c) OF 2018/2019
   MC: B-079(c) OF 2018/2019
   PC: B-090(c) OF 2018/2019
   EC: B-080(c) OF 2018/2019

Location: 2201-51 N. 28TH ST, PHILADELPHIA, PA 19132

This ADDENDUM dated February 2, 2022 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.

1. NOTICE: BID OPENING POSTPONED TO THURSDAY, FEBRUARY 10, 2022

2. BIDDER QUESTIONS AND RESPONSES

Question #1:
GC scope calls for chimney to be pointed but there is no drawing or scope of work. Please clarify.

Response:
Repointing of the chimney is not required for this project. See revised scope of work to clarify.

Question #2:
Drawing AD 101 does not show all the roof penetrations ie. New exhaust fans and gravity fans.

Response:
New penetrations for EF-4, GRV-205, GRV-207, GRV-217, GRV-219, EF-11, and EF-18 as well as modifications to existing penetrations for EF-9, EF-19, EF-6, and EF-7 were erroneously omitted from AD105 as issued for bid. See attached revised AD105 indicating General Contractor scope to remove roofing, insulation, and deck as needed for new penetrations as well as prepare existing penetrations for reuse.

Question #3:
on drawings EL103 and EL104, please confirm the symbol “DS” refers to a daylight sensor. This symbol is not shown on the symbols list.

Response:
Confirmed, the “DS” symbol represents a daylight sensor.
Question #4:
Please confirm the lighting controls mentioned keynotes 13 and 16 on EL103 and keynotes 10 and 12 on EL104 are digital. These keynotes reference spec section 260923 (distributed in addendum #3), and the basis of design model numbers in these specs are for a digital system.

Response:
Confirmed, the controls required by the referenced drawing keynotes are digital systems as specified in Section 260923.

Question #5:
It seems keynote 16 on EL103 is cut off, as it says “…with vacancy sensing occupant detectors and low refer to specifications…” It is assumed that this keynote is meant to call for digital similar to keynote 13. Please confirm our assumption is correct. Additionally, please confirm if we are to provide on/off/dim or just on/off switches. [This question allow applies to keynotes 10 and 12 on EL104.]

Response:
Keynote #16 on EL103 is to read, “PROVIDE A LOW VOLTAGE LIGHTING CONTROL SYSTEM FOR THIS SPACE CONSISTING OF A LOCAL ROOM LIGHTING CONTROLLER; WITH VACANCY SENSING OCCUPANT DETECTOR(S) AND LOW VOLTAGE ON/OFF CONTROL SWITCH(ES). REFER TO SPECIFICATIONS, SECTION 260923.” The same is true for Keynote #12 on EL104. (To clarify, Keynotes #13 (EL103) and #10 (EL104) are digital lighting control systems with manual dimming (on/off/dim switches). Keynotes #16 (EL103) and #12 (EL104) are digital lighting control systems with manual on/off control switches.)

Question #6:
On EL103, Vestibule 100A has keynote 2 (line voltage occupancy sensor) and keynote 9 (low voltage occupancy sensor with power pack) at the occupancy sensor. Please confirm we are to provide devices per keynote 9 to match the rest of the corridors.

Response:
Since the vestibule requires only a single occupancy sensor, the design intent is to utilize a line voltage device in Vestibule 100A as per Keynote #2.

Question #7:
On EL103, please clarify what type of switch should be provided in Service Room 108A. Per keynote #2, we are to provide a line voltage occupancy sensor in this room, but the type of switch is unclear.

Response:
Keynote #2 in Service Room 108A is incorrect; this should be Keynote #16. Provide a digital lighting control system with a vacancy-sensing occupant detector and a low voltage on/off control switch.

Question #8:
On EL104, please clarify what type of switch should be provided in rooms 227, 225, 229, 229A, and 238. Per keynote #2, we are to provide a line voltage occupancy sensor in this room, but the type of switch is unclear.

Response:
Keynote #2 in Classroom 227, Classroom 225, A/V 229, and Work Room 229A is incorrect; the correct notes are Keynote #10 for Classrooms 225 & 227 (low voltage on/off/dim digital controls) and Keynote #12 for A/V 229 & Work Rm 229A (low voltage on/off digital controls). For Storage 238, provide a line voltage single-pole light switch for manual override Off.
Question #9:
On EL104, rooms 201, 202, 211, 212, 213, 214, 223, 224 have both keynotes #4 at the occupancy sensor (low voltage occupancy sensor with power pack) and keynote 10 at the daylight sensor (assuming digital sensor based on reference to spec section 260923). Please confirm the occupancy sensor should be a digital sensor, not a low voltage sensor with a power pack. If low voltage with power pack, please clarify what kind of switch to provide in these rooms.

Response:
In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #10:
On EL104, rooms 222, 220, 218, 215, 203, 206, 208, 210 have both keynotes #2 at the occupancy sensor (line voltage occupancy sensor) and keynote 10 at the daylight sensor (assuming digital sensor based on reference to spec section 260923). Please confirm the occupancy sensor should be a digital sensor, not a line voltage sensor. If line voltage, please clarify what kind of switch to provide in these rooms.

Response:
In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #11:
On EL104, rooms 219, 217, 204, 205, 207, 209 have keynote #2 at the occupancy sensor (line voltage occupancy sensor). However, we believe based on the other classroom designs in this project, that we should be providing a digital lighting control system in this room (e.g. keynote 10). Please confirm we are to provide digital devices per keynote 10. If line voltage, please clarify what kind of switch to provide in these rooms.

Response:
In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #12:
On EL104, room 216 has keynote 2 (line voltage occupancy sensor) and also keynote 4 (low voltage occupancy sensor with power pack) at the occupancy sensors. Please confirm both of these keynote references are incorrect, and that we are to provide digital devices per keynote 10. If line voltage or low voltage with power pack, please clarify which of the 2 options we should follow, and clarify what type of switch should be provided.

Response:
In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.
Question #13:
On EL104, room 221 has keynote 4 (low voltage occupancy sensor with power pack) at the occupancy sensors. Please confirm this keynote is incorrect, and that we are to provide digital devices per keynote 10. If low voltage with power pack, please clarify what kind of switch to provide in this room.

Response:
In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #14:
On EL104, the small room to the right of room 223 has keynote 2 (line voltage occupancy sensor) and keynote 12 (assuming digital sensor based on reference to spec section 260923). Please confirm keynote 2 is incorrect, and that we are to provide digital devices per keynote 12. If line voltage, please clarify what kind of switch to provide in this room.

Response:
Keynote #2 applies to this room (Keynote #12 should be deleted). Provide a line voltage single-pole light switch for manual override Off.

Question #15:
On EL103, for vestibule 124, please clarify what type of occupancy sensor should be provided, as there is no keynote to clarify low voltage with power pack, line voltage, or digital.

Response:
In Vestibule 124, provide low voltage occupancy sensors with a power pack as per Keynote #9.

Question #16:
On EL104, for room 232, please clarify what type of occupancy sensor should be provided, as there is no keynote to clarify low voltage with power pack, line voltage, or digital.

Response:
In Women’s Room 232, provide low voltage occupancy sensors with a power pack as per Keynote #4.

Question #17:
On EL104, for room 226, please clarify what type of occupancy sensor and switch should be provided. There is no keynote to clarify low voltage with power pack, line voltage, or digital occupancy sensor, and it is unclear what switch type to provide.

Response:
For TV Control Room 226, provide a digital low voltage control system with a low voltage on/off control switch, as per Keynote #12.
Question #18:
For keynotes 13 and 16 on EL103 and keynotes 10 and 12 on EL104, which reference spec section 260923, please clarify which type of occupancy sensor should be provided in these rooms: PIR, ultrasonic, or dual-tech. The spec lists all of the above [Wattstopper LMPC (PIR), LMUC (ultrasonic), LMDC (dual-tech)] so it is unclear which to provide.

Response:
Provide passive infrared (PIR) occupancy sensors for all digital control systems.

Question #19:
For keynotes 13 and 16 on EL103 and keynotes 10 and 12 on EL104, please provide basis of design model number for the digital daylight sensor, as it is not listed in spec section 260923.

Response:
Basis of Design, Wattstopper DLM Photosensor, product number LMLS-400-U.

3. DRAWING REVISIONS

1. EDIT the following sheets as attached:
   - AD105 – Architectural Second Floor Demolition Plan
   - EL001 – Electrical Lighting General Notes, Legends, and Abbreviations
   - EL101 – Electrical Lighting First Floor Demolition Plan
   - EL102 – Electrical Lighting Second Floor Demolition Plan
   - EL103 – Electrical Lighting First Floor New Work
   - EL104 – Electrical Lighting Second Floor New Work

4. SPECIFICATION REVISIONS

1. SUMMARY OF WORK
   a. DELETE 3.a.2: “Secure, repair, and repoint chimney brickwork.

End of Addendum
SECTION 01 1000 – SUMMARY OF WORK

PART 1 GENERAL

NOTE: Prime Contractors must use the Internet web-based project management communications tool, E-Builder® software, and protocols included in that software for this project. Prime Contractors shall contact the SDP Contracts Manager for information on how to secure and pay for the necessary license(s) for themselves and their Subcontractors. The estimated cost is $1,301 for an annual license. A license may be shared or individual seats purchased at an additional cost.

The use of this project management communications tool does not replace or change any contractual responsibilities of the participants

(1) NOTE: THE MECHANICAL CONTRACTOR IS DESIGNATED AS THE LEAD PRIME CONTRACTOR FOR SCHEDULING AND COORDINATION PURPOSES

(2) NOTE: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL REMEDIATION FOR THIS PROJECT REQUIRED UNDER SECTION 01 1135 ASBESTOS ABATEMENT AND SECTION 01 1145 SOILS MANAGEMENT

(3) NOTE: ALL ASBESTOS ABATEMENT OR OTHER ENVIRONMENTAL REMEDIATION IN ATTIC AREAS IS LIMITED TO THE SUMMER TIME WHEN THE SCHOOL IS NOT IN SESSION.

(4) NOTE: ALL ASBESTOS ABATEMENT AND OTHER ENVIRONMENTAL REMEDIATION IN OTHER AREAS SHALL BE LIMITED TO AFTER SCHOOL HOURS WHENEVER THE SCHOOL IS IN SESSION.

(5) NOTE: ALL AREAS NOT UNDER ABATEMENT SHALL BE AVAILABLE FOR NORMAL SCHOOL OPERATIONS ON DAYS WHEN THE SCHOOL IS IN SESSION.

(6) NOTE: ALL PRIME CONTRACTORS SHALL COORDINATE THE MARKING OF LOCATIONS IN PAINTED CEILINGS, WALLS AND VAT TILE FLOORS FOR ATTACHMENT OR CORING OF MEP CONDUIT, PIPING OR DUCTWORK WITH THE ABATEMENT CONTRACTOR.

1. GENERAL

1. SECTION INCLUDES:

   A. General Description of Project and Location.

2. SITE LOCATION

   Richard R. Wright School, 2700 W Dauphin St, Philadelphia, PA 19132
3. **WORK COVERED BY CONTRACT DOCUMENTS**

   . Design Goals and Objectives: The project intent is to renovate the finishes and HVAC System to restore the building’s suitable for occupancy.

   A. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **General Construction Contractor** includes, but is not limited to the following.
      1. Paint interior surfaces of mechanical spaces (e.g. walls, ceilings, equipment pads).
      2. Secure, repair, and repoint chimney brickwork. N/A
      3. Modify roofing and structure as needed to support new rooftop HVAC equipment.
      4. Remove existing and provide concrete equipment pads. Provide concrete floor repairs.
      5. Provide an aluminum louver fence at the new air cooled chiller.
      6. Provide steel framing for rooftop mechanical equipment.
      7. Patch and repair roof.
      8. Remove existing and provide new louvers throughout the building.
      9. Remove existing ceilings and provide ceilings.
     10. Provide penetrations for mechanical equipment.
      11. Provide doors, frames, and hardware.

   B. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **Mechanical Contractor** includes, but is not limited to the following.
      1. Act as the primary contractor for coordination of construction activities with other contractors. Coordinate and publish cohesive schedules of all activities throughout construction.
      2. Remove existing boiler plant and provide new condensing boiler plant.
      3. Provide a new air-cooled chiller plant.
      4. Remove existing steam system and provide new dual-temperature water system with dual-temperature terminal equipment (e.g. unit ventilators, variable air volume units, cabinet heaters, unit heaters, fan coils, convectors).
      5. Remove existing and provide new air handling units as well as HVAC load recovery units.
      6. Remove existing and provide new exhaust fans.
      7. Remove existing pneumatic controls in their entirety and provide a new Building Automation System (BAS) for control of all HVAC equipment.
         b. Temporarily re-insulate all exposed HVAC piping and permanently insulate all plumbing piping upon abatement of asbestos insulation.
      9. Procure a Provide Testing, Adjusting, and Balancing (TAB) subcontractor and provide all TAB Services for all HVAC equipment airside and water system.
      10. Assist SDP Commissioning Authority with commissioning of Mechanical Equipment.

   C. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **Plumbing Contractor** includes, but is not limited to the following.
      1. Provide new domestic water heaters and circulating pumps.
      2. Provide new stainless steel wall-hung sink in the boiler room.
      3. Provide new backflow preventer and water softener system for makeup water to the HVAC system.
      4. Replace floor drain covers and connect new fixtures to the sanitary system. Provide on-demand floor drain cleaning service throughout the duration of the project.
      5. Provide new floor drains and drain piping for new HVAC equipment.
      6. Assist SDP Commissioning Authority with commissioning of Plumbing Equipment.
E. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **Electrical Contractor** includes, but is not limited to the following.
1. Provide new power panels, wiring, conduit, and panels for HVAC and Plumbing Systems.
2. Remove existing and provide new lighting in mechanical spaces.
3. Perform necessary short circuit and arc flash studies. Furnish reports to owner.
4. Replace light fixtures with high efficiency LED type where designated on the plans.
5. Assist SDP Commissioning Authority with commissioning of Electrical Equipment.

4. **CONSIDED EQUIPMENT**

A. No equipment has been pre-purchased by the owner.

B. All equipment, piping, instruments, accessories, and controls required to complete the work is to be furnished and installed by the contractor.

5. **COMMISSIONING**

A. The School District of Philadelphia will procure a Commissioning Authority (CA) for this project.

   A. All Contractors are responsible for coordination with the CA to fully execute commissioning activities.

6. **DRAWINGS**

   A. Project Drawings: The drawings listed on Sheet G001 and the LIST OF DRAWINGS specification section are included as part of all Contracts. The Work relative to each Contract is indicated on each Sheet; however, the full scope of work cannot be fully and correctly interpreted without reference to all drawings.

7. **MODIFICATIONS**

   A. Owner and Engineer of Record reserve the right to make changes in order and execution of Work of Contract as, in the judgement of the Owner or Engineer, may be necessary or expedient to carry out intent of design and Contract. No increase in unit prices over Contract rates will be paid to Contractor on account of such changes.

8. **PHYSICAL DATA**

   A. Become fully informed concerning location of facilities, structures, and utilities which may interfere with Project. Contractor must prepare bid and enter into Contract with full understanding of conditions to be encountered and responsibilities in connection with that.

   A. From investigations and field surveys, location of utilities and equipment have been brought to attention of Engineer are indicated on Drawings, but locations of existing conditions are not guaranteed. Indication on Drawings of such items will not be assumed to relieve Contractor of any responsibility with respect to it nor will Owner or Engineer be held responsible for omission or failure to give notice to Contractor of any other utilities or equipment.
9. **DAMAGE**

   Any damage done by the Contractor to School Districts’ Property or adjacent property and right-of-way will be restored immediately to the School District’s satisfaction at the Contractor’s expense.

10. **CONSTRUCTION SEQUENCING**

   Refer to Section 01 3000 TIME OF COMPLETION, MILESTONES, PHASING, OR SEQUENCEING.

   A. The School District of Philadelphia intends for the facility to remain fully occupied during the 2021-2022 and 2022-2023 school years. Two classrooms and the auditorium will be designated by the school as “swing space” classrooms to facilitate construction activities of this project.

   B. Refer to G102 for draft phasing plans.

   D. The mechanical contractor is responsible to finalizing the Phasing Plan within thirty (30) days of Notice to Proceed.

      1. It is the responsibility of the mechanical contractor to solicit information from the school regarding availability of specific classrooms as planned in the Mechanical Contractor’s Phasing Plan (e.g. testing schedules).

   E. It is the responsibility of all contractors to coordinate with the School District of Philadelphia and other contractors to execute work in accordance with the Mechanical Contractor’s Phasing Plan.

   F. Interruptions to building utilities (natural gas, domestic water) must be scheduled for times when the building is unoccupied and planned with the SDP Construction manager at least three (3) business days in advance.

2. **PRODUCTS**

   NOT USED

3. **EXECUTION**

   NOT USED

END OF SECTION 01 1000
**DURING DEMOLITION**

- PROTECT EXISTING DOOR

**MECHANICAL CONTRACTOR**

- ROOF SLAB TO MATCH EXISTING. SEE EQUIPMENT AND REPAIR CONCRETE
- REMOVE EXISTING MECHANICAL WORK. SEE MECHANICAL DRAWINGS.
- PENETRATION TO RECEIVE NEW EQUIPMENT AND PREPARE EXISTING STRUCTURAL DRAWINGS
- HEIGHT OF WALL REMOVAL WITH THE STEEL DUNNAGE. COORDINATE TO FACILITATE THE CONSTRUCTION OF REMOVE EXISTING PORTION OF WALL MASONRY INFILL.
- REMOVE EXISTING LOUVER IN ITS ENTIRETY AND PREPARE OPENING FOR WATERPROOFING MECHANICAL EQUIPMENT. CENTER ACCOMMODATE INSTALLATION OF DECK AS REQUIRED TO ROOFING, INSULATION, AND ROOFING, INSULATION, AND ROOF DECK. REMOVE PORTION OF BUILT WARRANTY.

- CUSTOMER ON STATUS OF ROOF CONTRACTOR TO CONFIRM WITH DURING CONSTRUCTION.
- PROTECTION AND WEATHERPROOFING DRAWINGS. PROVIDE TEMPORARY INSTALLATION OF STEEL FRAMING. SEE REQUIRED TO ACCOMMODATE ROOFING AND INSULATION AS REMOVE PORTION OF BUILT ROOFING TO BE EXISTING PORTION DEMOLISHED EXISTING TO BE REMOVED EXISTING TO REMAIN ROOF DEMOLITION PLAN

**SCALE: 1/8" = 1'-0"**
GENERAL DEMOLITION NOTES

1. REMOVE EXISTING LIGHT ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY LOCATION OF ALL EXISTING FIXTURES.

2. DISCONNECT AND REMOVE EXIT SIGNS. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING CONTROLS, PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.

3. EXISTING SMOKE DETECTORS. MAINTAIN EXISTING LOCATION OF ALL EXISTING FIXTURES.

4. EXISTING RECESSED SPEAKERS. MAINTAIN EXISTING LOCATION OF ALL EXISTING FIXTURES.

5. VERIFY ALL EXISTING CONDITIONS AT JOB SITE.

6. DISCONNECT AND REMOVE LOCAL LIGHTING CONTROLS, PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.

7. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY LOCATION OF ALL EXISTING FIXTURES.

8. DISCONNECT AND REMOVE EXISTING EXIT SIGNS.

9. DISCONNECT AND REMOVE EXISTING LOCAL LIGHTING CONTROLS, PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.

10. VERIFY ALL EXISTING CONDITIONS AT JOB SITE.

11. DISCONNECT AND REMOVE EXISTING LIGHT ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY LOCATION OF ALL EXISTING FIXTURES.

12. DISCONNECT AND REMOVE LOCAL LIGHTING CONTROLS, PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.

13. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY LOCATION OF ALL EXISTING FIXTURES.

14. DISCONNECT AND REMOVE EXIT SIGNS.

15. DISCONNECT AND REMOVE LOCAL LIGHTING CONTROLS, PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.
GENERAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS/WIRING QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.

2. MAINTAIN EXISTING ASSOCIATED CIRCUIT/WIRING. FIELD VERIFY LOCATION OF ALL EXISTING FIXTURES.

3. DISCONNECT, REMOVE AND STORE FOR REUSE ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY EXISTING RECESSED SPEAKERS. MAINTAIN EXISTING ELECTRICAL LIGHTING.

4. PANELBOARDS WHICH ARE AFFECTED BY THE SCHEDULES REVISED.

5. ELECTRICAL CONTRACTOR SHALL VERIFY DESIGNATION AND CIRCUIT NUMBER FOR EACH DEVICE TO BE DEMO SHEET KEYNOTES

CLASSROOM BECOME SPARE.

MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:

ENGINEER OF RECORD AND NO DATE REVISION SCHOOL & LOCATION

RICHARD R. WRIGHT ELEMENTARY

MAJOR HVAC RENOVATION

DRAWING NO. 8' 16' 0'

SCALE: 1/8" = 1'-0"

SHEET 67 OF 69

BIM 360://068625-SDP_MEP-FP_IDIQ/068625.009_SDPWRIGHT_MEP_R21.rvt

Checker Author 2/1/2022 6:06:28 PM
1. Provide new passive infrared (PIR) line voltage occupancy sensor, Leviton Provolt Gannet Fleming, Inc. 1010 Adams Avenue Valley Forge, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

2. Provide new smoke detectors at indicated locations.

3. Existing smoke detectors shall be reconnected at indicated locations.

4. Reconnect existing smoke detectors at indicated locations.

5. Stair #1:
   - Checkered by Checker FJR
   - Scale: 1/8" = 1'-0"
   - Date: 2/1/2022 6:06:47 PM

6. Check existing and new wiring per manufacturer's instructions.

7. Existing circuits/wiring. Refer to architectural drawings for the limit of the ceiling replacement/Scope of Work. Field installed in Gymnasium.

8. Assure that all systems are fully operational after installation.

9. Provide new passive infrared (PIR) line voltage occupancy sensor, Leviton Provolt Gannet Fleming, Inc. 1010 Adams Avenue Valley Forge, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

10. Reconnect existing smoke detector serving this area.

11. Refer to drawing EL103 for associated low voltage sensing occupant detector(s), daylight sensor(s) and low voltage on/off/dim control switch(s), as shown. (Note, daylight sensors may not be required in all spaces.) Refer to architectural drawings for control of lights in this room area.

12. Classroom

13. Refer to associated low voltage wiring for control of lights in this room area.

14. Reflected ceiling plans.

15. Provide new passive infrared (PIR) line voltage occupancy sensor, Leviton Provolt Gannet Fleming, Inc. 1010 Adams Avenue Valley Forge, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

16. Reconnect existing smoke detector serving this area.

17. Refer to associated low voltage wiring for control of lights in this room area.

18. Classroom

19. Provide new passive infrared (PIR) line voltage occupancy sensor, Leviton Provolt Gannet Fleming, Inc. 1010 Adams Avenue Valley Forge, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

20. Reconnect existing smoke detector serving this area.

21. Refer to associated low voltage wiring for control of lights in this room area.

22. Classroom

23. Provide new passive infrared (PIR) line voltage occupancy sensor, Leviton Provolt Gannet Fleming, Inc. 1010 Adams Avenue Valley Forge, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

24. Reconnect existing smoke detector serving this area.

25. Refer to associated low voltage wiring for control of lights in this room area.