

**THE SCHOOL DISTRICT OF PHILADELPHIA**  
**Office of Capital Programs**  
**440 North Broad Street, 3<sup>rd</sup> Floor – Suite 371**  
**Philadelphia, PA 19130**

TELEPHONE: (215) 400-4730

**ADDENDUM No. 02**

**Subject:** Potter-Thomas Elementary School – Major HVAC Renovation  
SDP Contract No.  
GC: 2022-018-G  
PC: 2022-018-P  
MC: 2022-018-M  
EC: 2022-018-E

**Location:** 3001 N. 6<sup>th</sup> St. Philadelphia, PA 19133

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**This ADDENDUM dated March 10, 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.**

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**NOTICE: BID OPENING POSTPONED UNTIL THURSDAY, MARCH 24, 2020**

**Questions –**

1. Drawing E-104 Electrical New Work Note #3, Drawing E-105 Electrical New Work Note #3, and Drawing E-107 Electrical New Work Note #4 mention that the duct smoke detectors are provided by EC. Please confirm the typical delineation of scope for multiple prime projects should be followed as listed below:
  - EC furnishes duct detector and sampling tube.
  - EC provides test switch for duct detector.
  - EC provides control relay module with form-c contact if form-c contact isn't already built into duct detector.
  - MC installs duct detector & sampling tube within duct.
  - EC provides SLC wiring to duct detector.
  - MC provides control wiring from dry contact to mechanical equipment.

**Response: The scope of work will be delineated as depicted in the question above.**

- **EC furnishes duct detector and sampling tube.**
  - **EC provides test switch for duct detector.**
  - **EC provides control relay module with form-c contact if form-c contact isn't already built into duct detector.**
  - **MC installs duct detector & sampling tube within duct.**
  - **EC provides SLC wiring to duct detector.**
  - **MC provides control wiring from dry contact to mechanical equipment.**
2. Drawing E200 specifies an emergency shunt relay with 0-10V dimming bypass. Where is 0-10V dimming applicable to the project since the RAB control system sends dimming signals wirelessly to the integral Lightcloud® Controllers? Why are shunt relays specified when it appears all the

emergency lighting are fed from normal panels and have battery backup? Please confirm shunt relays should be deleted from the lighting control schedule.

**Response:**

**SDP has specified a need for a wired control system and elcu's will be needed. Revised lighting plans will be included in the upcoming Addendum 3.**

3. Drawing E601 detail #2 lists the following specifications details for VFD's in the notes. Please confirm these notes can be ignored since the MC contract furnishes the VFD's.
- Provide motor protective filter circuit
  - Breaker disconnect
  - 5% input line reactor
  - Bypass configuration
  - Overload protection
  - EMI/RFI Filters

**Response:**

**This will be provided by the Mechanical Contractor.**

4. There are new work panel schedules on drawings E501 to E503 which show very little or sometimes no branch circuit breakers. There are demolition panel schedules on drawings E511 to E514 which show the old branch circuit breaker quantities. The new work panel schedules have notes to reconnect existing circuits. The gear vendors are going to get confused figuring the branch circuit breaker counts for the new panels. Please advise if our assumptions are correct and answer questions below:
- Panel KP
    - a. Old panel was 46 pole and new panel is 42 pole so the existing branch breaker quantities cannot be matched in the new panel due to the reduced pole space. Please clarify design.
    - b. There are some spare breakers in the demolition panel schedule that do not have an ampacity listed. Please provide ampacities.
    - c. Kitchen Panel KP was not coordinated between the panel schedule and single line diagram. The single line diagram on drawing E701 calls for 250A MCB but the panel schedule calls for 200A bus / 150A MCB which conflicts. Please clarify KP requirements.
  - Panel NE
    - a. Existing panel was (34) pole with (34) 20A-1P branch circuit breakers. New panel NE is (42) pole. Is the new panel NE just supposed to have (34) 20A-1P branch circuit breakers and (8) spaces? Or are there supposed to be additional breakers added for generator accessory branch circuits?
    - b. Drawing E501 panel schedule for panel NE calls for 150A MCB and does not list the bus ampacity. Drawing E701 calls for a 125A MCB panel which conflicts. Please clarify panel NE requirements.
  - Panel P
    - a. Panel schedule P is shown on E514 as an existing panel, but it is not shown on the existing single line detail 1 on E701. Panel P is shown as a new panel only on the new work single line detail 2 on E701. Please clarify this discrepancy. Is panel P existing or new?
    - b. Notes for panel schedule P on E502 are cut off on the sheet. Please re-issue panel schedule to include notes.
    - c. There are (4) 3-pole existing to remain circuits shown on panel P panel schedule on drawing E514, and the circuit breaker ampacities are not provided. There are not enough room on new panel P as shown in the panel schedule on E502. Please clarify where these existing to remain circuits should be fed from and provide circuit breaker ampacities.
  - Panel 1F
    - a. Panel schedule 1F is shown on E513 as an existing panel with existing circuits that are to be relocated to "new panels". This panel is not shown on the existing single line detail 1 on E701. This panel is shown as a new panel on the new work single line detail 2 on E701. Please confirm panel 1F is an existing panel that should be demolished and replaced.
    - b. The "existing" circuit information for panel 1F is not shown on panel schedule on E513, so it is

unclear how many circuits we are to relocate to “new panels”. Please provide branch circuit information (quantities, poles, circuit breaker ampacities) for this panel and please clarify which panel we are to relocate these branch circuits to.

- Panel 1D
  - a. Existing panel 1D is shown with 42 circuits on E514. New panel schedule for panel 1D is shown with (1) new circuit on E502 plus a note that states “relocate existing circuits per new work lighting and power plans.” This note is not acceptable for the panelboard vendors. Panelboard vendors require quantities shown in panel schedules. Please provide complete panel schedule that includes the circuits shown on the new work lighting and power plans.
  - b. There is a note in new panel schedule 1D on E502 to “provide additional spare breakers as indicated in addition to all existing spare breakers.” The existing panel schedule on E514 shows 42 single pole circuits. New panel schedule 1D has 42 poles with (1) new single pole circuit, 3 spare single pole breakers, plus any relocated existing circuits per the new work lighting and power plans. Therefore, there is not enough room in new panel 1D for all of these circuits. Please clarify design.

**Response:**

- **Panel P is existing to be demolished and provided new. A new panel schedule will be modified to fix the view issue.**
- **Panel NE will be for emergency circuits only. A new outdoor generator will be added to the scope in addendum 3.**
- **Breaker quantity and sizes will be provided for loads that are to be re-connected. Provide additional breakers and branch circuitry for new loads. This is typical for all Panels with provisions to be replaced and depicted with existing branch circuitry to be re-used.**
- **Panel schedule spare provisions shall be updated to conform with physical spaces being specified and provided. Revisions will be made in Addendum 3.**

5. Please provide completed panel schedule for Panel 1B. There is a note on the panel schedule on E502 that states “relocate existing circuits per new work lighting and power plans.” This note is not acceptable for the panelboard vendors. Panelboard vendors require quantities shown in panel schedules. Please provide complete panel schedule that includes the circuits shown on the new work lighting and power plans.

**Response:**

**Breaker quantity and sizes will be provided for loads that are to be re-connected. Provide additional breakers and branch circuitry for new loads. This is typical for all Panels in the 1<sup>st</sup> and 2<sup>nd</sup>-floor corridor. Revisions will be made in Addendum 3.**

6. Please provide completed panel schedule for Panel 2A-2. There is a note on the panel schedule on E502 that states “relocate existing circuits per new work lighting and power plans.” This note is not acceptable for the panelboard vendors. Panelboard vendors require quantities shown in panel schedules. Please provide complete panel schedule that includes the circuits shown on the new work lighting and power plans.

**Response: Breaker quantity and sizes will be provided for loads that are to be re-connected. Provide additional breakers and branch circuitry for new loads. This is typical for all Panels in the 1<sup>st</sup> and 2<sup>nd</sup>-floor corridor. Revisions will be made in Addendum 3.**

7. Please provide completed panel schedule for Panel 2A-1. There is a note on the panel schedule on E502 that states “relocate existing circuits per new work lighting and power plans.” This note is not acceptable for the panelboard vendors. Panelboard vendors require quantities shown in panel

schedules. Please provide a complete panel schedule that includes the circuits shown on the new work lighting and power plans.

**Response:**

**Breaker quantity and sizes will be provided for loads that are to be re-connected. Provide additional breakers and branch circuitry for new loads. This is typical for all Panels in the 1<sup>st</sup> and 2nd-floor corridor. Revisions will be made in Addendum 3.**

8. Please provide panelboard schedules for the following new panels:

- 2B-1
- 2B-2
- 1A
- 1C

**Response:**

**These panelboard schedules will be added in Addendum 3. Breaker quantity and sizes will be provided for loads that are to be re-connected. Provide additional breakers and branch circuitry for new loads. This is typical for all Panels in the 1<sup>st</sup> and 2nd-floor corridor.**

9. Please clarify why existing panel 2B section 1 panel schedule is provided on E514 if the panel is to be demolished. Are we supposed to reconnect these circuits to another panel? If yes, which panel?

**Response:**

**The panel is to be demolished and replaced in-kind. Reconnect circuits that are not being provided as new for HVAC and Lighting upgrades.**

10. Please clarify why panel schedules have been provided for demolished panels RC1 and RC2 on E512. All circuits are showing as demolished, and new panels are not being provided in their place. Is there any scope regarding these panels?

**Response:**

**These panels are to be removed with the existing hvac loads associated with them. New HVAC system will be powered from another panel in the boiler room.**

11. Please provide name of the fire alarm vendor for the existing fire alarm system.

**Response:**

**Installing Vendor is Edwards and model of the panel is EST3. SDP has in-house maintenance on the fire alarm system.**

12. Drawing E001 from addendum #1 has conflicting notes in the "wiring and conduit methods" section. 2B states to provide EMT conduit in mechanical & electrical rooms. 2C states to provide RGS conduit in mechanical & electrical rooms. See screenshot below. Please clarify whether we should provide EMT or RGS conduit in the mechanical and electrical rooms.

**Response:**

**EMT is accepted in the electrical and mechanical space.**

13. New work keynote 1 on drawing E104 states that the electrical contractor is to "provide" (in this case we assume the engineer meant "furnish") a fusible disconnect switch for CH-1 and CH-2. Please confirm this is incorrect. Per general new work note #1, please confirm the MC is to furnish the disconnect switch for CH-1 and CH-2, and the EC is to install the disconnect switches.

**Response:**

**Confirmed - M.C. is responsible for providing the Chillers disconnect switches.**

14. Note at electrical room 157 on drawing E105 states to provide new door. Please confirm new door is furnished & installed by the GC.

**Response:**

**Confirmed. This scope will be removed from the electrical plans.**

15. The transformer in electrical room 157 on drawing E105 has a note that calls for a 1000KVA transformer. Single line on E701 states to provide a 750KVA transformer. Please clarify discrepancy.

**Response:**

**E105 will be updated to reflect a 750 Kva Transformer.**

16. Provide feeder tag for existing panel ITP. Feeder is shown as a bold line on E701, indicating new conduit and wire.

**Response:**

**The feeder cable will be removed from the scope in addendum 3 because this wire was recently installed in a modernization project.**

17. Electrical phasing keynote #1A states to provide new service conduits between overhead utility pole and MH-1. Utility pole location is not shown in the drawings. Please indicate location in plan or provide length between utility pole and MH-1.

**Response:**

**Addendum 1, 1/ E701 specifies a distance and additional scope per the note attached to MH-1 and MH-2.**

18. Please confirm overall grounding system as shown in detail 1 on E703 is existing. Please confirm the only new scope for the grounding system is per detail 2 on E703.

**Response:**

**Per Addendum 1 the new scope is shown in detail 2 on E703. Detail 1 on E703 does show requirements that are necessary for a fully functional system. The detail depicts typical wire sizes and appropriate connection schemes. Addendum 3 will include revised scope to include a new outside emergency generator system.**

19. Further questions and updated plans and specifications will be incorporated into addendum

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**Drawings – N/A**

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**Specifications – N/A**

**End of Addendum**