

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

TELEPHONE: (215) 400-4730

Addendum No. 2

Subject: Mechanical Plant Replacement-Pennell Elementary School
SDP Contract Nos. B-087C, B-088C, B-089C and B-090C of 2017/18

Location: Joseph Pennell Elementary School
1800 West Nedro Avenue
Philadelphia, Pennsylvania 1914

This Addendum, dated December 11, 2020, 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.

NOTICE: BID OPENING POSTPONED TO THURSDAY, DECEMBER 17, 2020

Revise ///bidding and Contract Documents as indicated below or by attachment

1 Specifications

1.1 N/A

2 Drawings

2.1 N/A

3 Contractor questions:

3.1 Fan Relay circuit BR1-8 is shown in the panel schedule on E-502, but it does not appear to be shown in plan on E-101/detail 2. Please indicate location of fan relays in plan.

RESPONSE: If not indicated on plans, locate relays adjacent to control panel or motor served.

3.2 Per the plumbing schedule on P-501, the CFU's require a corded plug for their electrical connections. On drawing P-401/detail 2, keynote 12 is shown at CFU-3 and CFU-4, which indicates that the PC is to furnish a disconnect that the EC is to install. This conflicts with the corded plug requirement. Please clarify power requirements and each prime's scope for the CFUs.

RESPONSE: The Plumbing Contractor will provide Chemical Feed Units with corded plugs; disconnect switches can be omitted for this equipment.

- 3.3 On E-101/detail 2 there are (3) unlabeled non-fused disconnects to the right of WH-2 on the south wall of Boiler Room 101. Please clarify which equipment these disconnects are for, and which prime has to furnish them.

RESPONSE: The Plumbing Contractor will provide disconnect switches for two (2) water heaters and one (1) circulator pump. The Electrical Contractor will install and wire these disconnect switches.

- 3.4 On drawing E-701 there are references where limit switches are noted as “by EC” and “provided by EC”. When these notes are used, does this mean the limit switches are furnished and installed by the GC and wired by the EC? We thought the limit switches would be included with the overhead door package that is furnished by the GC. If the EC furnishes and install the limit switches, wouldn't this violate the overhead door manufacturer warranty because the EC would not be a factory authorized dealer/installer? Also are these limit switches actually inside the operators and wired by the manufacturers? If the limit switches are furnished and installed by EC, we need to know the basis of design manufacturer/model. Please clarify design intent.

RESPONSE: The Electrical contractor will provide (furnish, install, and wire) all overhead door limit switches.

- 3.5 Drawing E-701 references the names “overhead doors” and “louver doors”. Please confirm these names are actually referencing the same thing.

RESPONSE: For purposes of the electrical contract documents, the terms “overhead doors” and “Louver doors” reference the same equipment.

- 3.6 Drawing E-701 detail #1 shows (2) limit switches per overhead door (2 per door x 7 doors = 14 limit switches). Also details 2 and 3 on that same sheet show in total 7 more limit switches. So there are 21 limit switches on the project, but the electrical floor plan E-101 only shows 7. Please confirm 21 is the correct count of limit switches.

RESPONSE: The Electrical Contractor will provide one (1) limit switch per door for a total of seven (7) limit switches.

- 3.7 Drawing E-701 detail #1 shows a pushbutton door control station. Please confirm the push button door control station is furnished by GC. If the door control station is furnished by EC, please provide basis of design manufacturer/model. Are the door control stations installed/wired by the GC's overhead door vendor or does the EC install/wire them?

RESPONSE: Push button door control station shall be furnished and installed by GC, wired by EC.

- 3.8 Drawing E-701 does not show any conduit/wire details of items that may be required for overhead doors (e.g. Exterior eye emitter, exterior eye receiver, presence sensor, safety edges etc.) Are any of these devices or other devices applicable to the project for the overhead door basis of design model? If so, are the associated conduit and wiring for these devices provided by the GC's overhead door vendor? If the conduit and wiring is by the EC, please provide details.

RESPONSE: Associated conduit and wiring for these devices shall be provided by the GC.

- 3.9 Drawing E-701 detail #1 shows conduit and wire between the door controller and the door control station. Also this detail shows conduit and wire between the door controller and the limit switches. There is no information shown on the conduit and wire requirements for this control wiring. Is this conduit and wire provided by the GC's overhead door vendor? Are these wires mentioned low voltage? If the conduit and wire has to be provided by the EC please provide wiring requirements.

RESPONSE: Per E-701 Detail #1, the Electrical Contractor will provide interconnecting wiring in accordance with overhead door manufacturer's recommendations.

- 3.10 For drawing E-701 details #2 and #3, please provide basis of design manufacturer and model numbers for control relays. Do the control relays come with integral fusing and an integral green indicating light (if so we need manufacturer and model basis of design)? Or are we supposed to provide a custom solution? An example of a custom solution would be a NEMA 1 screw junction box with a backplate and make a knockout (KO) for the indicating light on the cover and mount a fuse block and a relay inside. Please clarify design intent.

RESPONSE: Provide industrial control relays having characteristics, components, and enclosure type as follows:

1. Relay coil voltage of 120VAC.
2. One (1) normally open convertible (Form C) contact per relay or quantity as otherwise indicated on the Drawings. Contacts rated 600V, 10 Amp.
3. Enclosure Type: NEMA Standard 250 Type 12 unless indicated otherwise on the Drawings.

Acceptable Manufacturers:

- a. Square D Company
- b. Eaton Electric
- c. General Electric
- d. Siemens Industry for LV Power Distribution
- e. Or Approved Equal

- 3.11 Drawing E-701 detail 4 shows a control relay with note 1. Is this furnished and installed by EC? If so, please provide basis of design manufacturer and model number. Is the design intent to provide a 4" square junction box and mount a 120V rib relay on one of the knockouts (KO's) of the box?

RESPONSE: The Electrical Contractor will provide control relays to satisfy requirements of E-701 schematics. Refer to Question 3.10 for control relay requirements.

- 3.12 For drawing E-701/detail 5, should we provide a NEMA 1 junction box and mount on the side of the burner cabinet to contain the relays? Or do we make a knockout in the burner cabinet and mount a rib relay where the rib relay will be outside of the burner cabinet, but the actual wiring will be within the burner cabinet? Please clarify design intent.

RESPONSE: Provide wiring, conduit, and boxes external to the burner as necessary to satisfy the requirements of E-701 schematics.

- 3.13 Can SDP provide the vendor and manufacturer for existing fire alarm system? Please note when we say vendor, we mean the local company who furnished, programmed, and provides maintenance for the system. The manufacturer is the company that actually makes the equipment. We need this info to get a quote to modify the existing fire alarm system.

RESPONSE: Jack Cohen & Company installed the fire alarm system in 2018.

- 3.14 Drawing E-001 general note 20 mentions PVC coated raceway and hardware in corrosive areas. Please confirm this conduit type is not applicable to the contract. If this is not correct, please clarify what rooms this expensive conduit type is required.

RESPONSE: Provide PVC coated raceway and hardware per E-001 general note 20 throughout all areas in basement – including the boiler room, the fuel oil pump room, the water pump room, the house fan room, house fan plenum #1, and house fan plenum #2.

- 3.15 Drawing E-701 detail #1 shows a control panel for the overhead door. There are 7 overhead doors on the project so there are 7 control panels. We do not see the locations of these panels identified on drawings E-701 and A-101. Where are these control panels going to be mounted at?

RESPONSE: Refer to Basement Plan – Part B on Sheet A-101.

- 3.16 Confusion on the sump Pit – Is there an existing pit that is to be expanded or is this a new pit? Drawings indicate excavation down 42 inches but section indicate there is an existing slab at 42 inch. Also indicate an existing curb to be removed and new installed at basement floor level. Please clarify

RESPONSE: The general contractor will provide a new pit and new pit slab. Refer to 1/AD-101 and 5/A-105.

- 3.17 How many bollards are required and where will they be placed?

RESPONSE: Refer to A-104.

- 3.18 Is the GC responsible for the demo of the concrete and removal of soil? Is the GC installing the concrete after? MC is removing the underground tank and piping and installing fill?

RESPONSE: Per M-401 Keynote 16 and P-401, the mechanical contractor is responsible for excavation and removal of the underground storage tank and is responsible for storage of un-contaminated soils onsite. The mechanical contractor is responsible for backfill, providing new clean fill, and compaction of soils. Per A-104, the General Contractor is responsible for providing new concrete pavers.

- 3.19 Is the GC responsible for the Fencing and bollards?

REPSONSE: Yes.

END OF ADDENDUM #002