



THE SCHOOL DISTRICT OF PHILADELPHIA

BOARD OF EDUCATION
Office of Capital Programs
440 North Broad Street, 3rd Floor – Suite 371
Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 4

Subject: James Rhoads Elementary School Major Renovation
SDP Contracts No B-040C, B-041C, B-043C, B-043C of 2019/20

Location: James Rhoads Elementary School
4901 Parrish Street
Philadelphia, PA 19139

This Addendum, dated June 9, 2020, shall modify and become part of the Bid Documents. Any items not mentioned herein, or affected by, shall remain strictly in accordance with the original document.

CONTRACTOR RFI'S:

4. Dwg HD-100 --- Is the piping shown to be removed on this drawing existing in a crawlspace? If so, please provide details of egress, a virtual walkthrough, and any safety information such does it constitute a confined space? confined spaces. Is the lighting adequate to perform the demo? If not, who has the responsibility to provide adequate lighting? If not a crawlspace, how are we to remove and replace piping? Please confirm all insulation is being removed on the existing piping on this drawing and replaced as part of phase 1? Is the work on this floor performed during regular hours or on shift hours?

Response: Yes, the piping shown on HD-100 includes areas in crawl spaces. The access is through a man door within the Mechanical Room M-01. The virtual walkthrough will not provide video of this space. The existing crawl spaces has lighting throughout the space. It will be the contractor's individual responsibility to provide additional lighting as needed to perform the work. All abatement within the Boiler room areas, including piping shall be part of Phase 1 without disruption to the school. The Abatement Contractor will reinsulate all existing piping once they remove asbestos insulation. Mechanical Contractor to insulate only new piping. Future addendum will revise the environmental work plan.

5. Dwg H-110 --- is it the intention to have all the work performed on this drawing during regular hours? Please confirm that the piping on this drawing can be installed as part of phase 1 in order to support the remaining phases for providing heating and cooling?

Response: Yes, work to be scheduled during Phase 1. Piping can be installed as part of Phase 1 and will need to be coordinated with existing piping until heating season is complete.

6. 1. Reference the summary of work for General Construction 01 1000 section 1.2 A. The following items are noted in the summary of work as by the general construction prime to support the activities of the mechanical prime:
- Masonry openings in existing exterior walls for HVAC system.
 - CMU wall patching for HVAC.
 - Concrete infill to support new HVAC layout.
 - Demolition of boiler room slabs / curbs and New concrete slab.
 - Roof patching.

- f. Notes on the mechanical drawings conflict with the above general contractor prime scope. Reference mechanical drawing HD-100 general demolition note 4 as cutting and patching being by the mechanical contractor. Reference general demolition note 8 of HD-100 as roofing repair by mechanical contractor. Reference note 8 on H-301 stating mechanical to provide a concrete pad. Please confirm that the general prime contractor will perform all roofing, concrete pads, cutting and patching, and concrete slab demolition as needed for the mechanical and electrical contractors.

Response: Clarification and Addendum items to follow this response.

- a. General Contractor will own masonry openings in existing exterior walls for HVAC system as noted and coordinated on the Architectural Plans.
- b. General Contractor will own CMU wall patching for HVAC as documented and coordinated on the Architectural Plans. HVAC contractor to own any misc. work not shown on the architectural plans.
- c. General Contractor to own Concrete infill to support new HVAC system as shown on the architectural plans. HVAC contractor to own any misc. work not shown on the architectural plans.
- d. General Contractor to own demolition of existing concrete slab and curbs in Boiler Room area as shown on the architectural plans. GC will own new concrete slab in boiler room. HVAC will own new concrete housekeeping pads as documented on the HVAC drawings.
- e. General Contractor will own all roof patching.
- f. Question is answered in "a. through e.". Clarification and Addendum item will coordinate scope.

7. Substitution Request submit from Mechanical Contractor.

Response: Substitution requests by prospective bidders are not considered during the bidding period. Proposed substitutions of specified equipment or material are addressed at the time of required submittals by the contractor awarded the contract in question.

See General Conditions GC-4.23 SUBSTITUTIONS (OR EQUAL) for procedures and requirements.

If a bid is based on providing equipment or material other than the basis of design, whether from a named manufacturer or not, it is a substitution; and bidder/contractor assumes the risk that its proposed substitution will be approved; otherwise, the basis of design equipment or material must be provided.

8. There are lighting protection system symbols on the drawings legend. Is the lighting protection system included in this bid?

Response: There is no lighting protection in this project.

9. What trade contractor is responsible for the electrical excavation, concrete encasement, vault and backfilling?

Response: The Electrical Contractor is responsible for all new work associated with the new electrical service per the electrical drawings.

SPECIFICATIONS:

Section 23 5260 – FIRE TUBE CONDENSING BOILERS;

Refer to paragraph 1.3, delete all text associated with item C. in its entirety and replace with the following verbiage:

- C. Shop Drawings: Detail equipment assemblies and indicate dimensions, required clearances, and method of field assembly, components, and location and size of each field connection. Prior to flue vent and combustion air intake installation, provide engineered calculations and drawings to thoroughly demonstrate that size and configuration conforms to the recommended required size.

Refer to paragraph 2.1, delete all text associated with item A. in its entirety and replace with the following verbiage:

- A. Basis of Design: Benchmark condensing boilers manufactured by Aerco.

Refer to paragraph 2.1, delete all text associated with item B. in its entirety and replace with the following verbiage:

- B. Other acceptable manufacturers:
 - 1. Fulton Endura+
 - 2. Cleaver Brooks Clearfire.

CHANGES TO DRAWINGS:

Drawing: A-111 – FIRST FLOOR PLAN

Revisions:

- a. Storage Room S-1.7, New Masonry Enclosure Dimension shall be “5'-4” Wide x 5'-8” Length”.

Drawing: HD-101 FIRST FLOOR PLAN – HVAC DEMOLITION

Refer to the Keyed Drawing Notes, add a hexagon with the number 16 to the front of the last keyed drawing note.

Drawing: HD-105 ROOF PLAN – HVAC DEMOLITION

Refer to Keyed Drawing Note No. 1, delete the original text in its entirety and replace with the following verbiage:

- 1. REMOVE EXISTING EXHAUST HOOD, ROOF CURB AND ALL ASSOCIATED DUCTWORK, INSULATION, DAMPER(S), HANGERS, SUPPORTS AND CONTROLS IN THEIR ENTIRETY. COORDINATION WITH THIS WORK WITH GENERAL CONTRACTOR PRIOR TO START OF DEMOLITION.

Refer to Keyed Drawing Note No. 3, delete the original text in its entirety and replace with the following verbiage:

- 3. REMOVE OUTSIDE AIR INTAKE HOOD AND ALL ASSOCIATED DUCTWORK, DAMPER AND CONTROLS IN THEIR ENTIRETY. EXISTING ROOF CURB SHALL REMAIN AND BE CAPPED WITH (2) 3/4” LAYERS OF EXTERIOR GRADE PLYWOOD, SECURE A 2” LAYER OF POLYISO INSULATION TO UNDER SIDE OF PLYWOOD CAP AND COVER EXTERIOR WITH A WATERTIGHT FULLY WELED 16 GA. GALVANIZED STEEL METAL CAP THAT EXTEND 2” BELOW TOP OF EXISTING ROOF CURB, PROVIDE A 1/4” WIDE PERIMETER DRIP EDGE THAT IS TURNED OUT ON A 45° ANGLE ON ALL SIDES.

Drawing: H-111 FIRST FLOOR PLAN – HVAC;

Refer to Storage S-1.7, change the indicated 18” ID double wall vertical riser to 20” ID.

Drawing: H-112 SECOND FLOOR PLAN – HVAC;

Refer to Stair #1, change the indicated 18” ID double wall vertical riser to 20” ID, located to the left of the stair.

Drawing: H-113 THIRD FLOOR PLAN – HVAC;

Refer to Stair #1, change the indicated 18” ID double wall vertical riser to 20” ID, located to the left of the stair.

Drawing: H-114 FOURTH FLOOR AND PENTHOUSE PLANS – HVAC;

Refer to Stair #1, change the indicated 18” ID double wall vertical riser to 20” ID, located to the left of the stair.

Drawing: H-301 BOILER ROOM PLAN – HVAC;

Refer to the boiler exhaust vent, change the indicated vent size from 18” ID to 20” ID.

Refer to Keyed Drawing Note 6, change the indicated vent size from 18” ID to 20” ID.

Drawing: H-600 HVAC EQUIPMENT SCHEDULES – SHEET NO. 1;

Delete the Boiler Schedule in its entirety.

ADD Sketch: SKH-1 HVAC EQUIPMENT SCHEDULE;

The contents of this sketch shall become part of the contract documents and it supersedes the previously issued schedule.

CLARIFICATIONS:

a) Remove General Demolition Note 8 in its entirety from all HVAC Demolition drawings.

b) General Contractor to own all Roof Work including but not limited to patching, flashings, new penetrations as shown on the roof plan drawings. GC shall reference and coordinate all work with other primes. Coordinate timing of work with all primes works as documented in the contract drawings. GC shall employ a certified roofing contractor to patch all remaining roof penetrations. The roofing system manufacturer shall inspect all roof work upon completion and provide a certificate to Owner insuring all roof work was performed in compliance with the manufacturer and their roofing warranty has been maintained. The existing roof is a Siplast Roof system. Contractor to employ a certified contractor that is approved by the Siplast manufacturer.

c) Electrical Contractor shall be responsible for enlarging existing wall openings as required where recessed electrical panels are being replaced in-place. Contractor shall repair / patch and paint to match adjacent surface, any areas damaged (or where items were removed / demolished) by work of this contract.

END OF ADDENDUM

BOILER SCHEDULE

BASIS OF DESIGN:
AERCO

SYMBOL	TYPE	INPUT MBH	OUTPUT MBH	RELIEF VALVES	MAXIMUM WORKING PRESSURE	ELECTRICAL		MODEL	REMARKS
						VOLTAGE	FLA		
B-1	STAINLESS STEEL CONDENSING	3000	2880	75 LB.	160 PSI	208-3-60	10.0	BENCHMARK 3000	
B-2	STAINLESS STEEL CONDENSING	3000	2880	75 LB.	160 PSI	208-3-60	10.0	BENCHMARK 3000	

NOTES: 1. MODEL NUMBERS ARE INDICATED FOR REFERENCE ONLY. THE DUTIES AND CAPACITIES ARE TO BE USED FOR FINAL UNIT SELECTION BY THE MANUFACTURER.

2. PROVIDE EACH UNIT WITH A CSD-1 COMPLAINT GAS TRAIN AND CONDENSATE NEUTRALIZATION TRAP.

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JAMES RHODES E.S. - MAJOR RENOVATION

DRAWN BY	RLC
REVIEWED BY	AM
JOB #	RLC

SHEET TITLE
HVAC EQUIPMENT SCHEDULE

SHEET #
SKH-1

SCALE	AS NOTED
DATE	6.8.2020