

Appoquinimink School District

THE WORLD IS OUR CAMPUS

STATE OF DELAWARE Appoquinimink School District

March 13, 2018

- TO: ALL OFFERORS
- FROM: Bob Hershey
- SUBJECT: ADDENDUM TO REQUEST FOR PROPOSAL NO. 2: Appoquiniminink School District Fairview Campus New Middle School and High School Bid Package C

ADDENDUM NO. 2

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APPOQUINIMINK SCHOOL DISTRICT FAIRVIEW CAMPUS NEW MIDDLE SCHOOL AND HIGH SCHOOL BID PACKAGE 'C/D' TOWNSEND, DELAWARE

The bid due date for Bid Package 'C' remains unchanged. Bids are being received until 2:00 p.m. on Thursday, March 22, 2018.

The bid due date for Bid Package 'D' has been extended. Bids are being received until 2:00 p.m. on Tuesday, April 10, 2018.

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work for materials not specifically mentioned herein are to be described in the main body of the specifications and as shown on the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification. The contract documents for the above referenced project are amended as follows:

GENERAL CLARIFICATIONS:

1. None to Report

QUESTIONS AND ANSWERS:

- 10-REV. Expansion joints are included in the masonry scope of work. Is this correct?
 - a. The masonry contractor is to provide spacing for expansion joints within their installations. Expansion joint assemblies in masonry walls will be provided by the Metal Stud and Drywall Contractors. The masonry contractor is to provide 2-hour fire rated expansion joints in the masonry-to-masonry assemblies as seen on (but not limited to) Sheets A-501 and A-502.
- 14. Sheet A-002 : EW8 shows no rigid insulation or sheathing. We believe sheathing is needed at a minimum between the metal stud framing and zee channel. Also, there is no batt insulation shown in the metal stud wall. Is this correct?
 - a. No need for insulation-See Revised sheet A-002
- 15. Sheet A-002 : EW6 does not call out spray fireproofing. Please detail.
 - a. See Revised sheet A-002.
- 16. Sheet A-002 : EW7 shows the rigid insulation in the wrong location and does not call out air space.
 - a. See Revised sheet A-002
- 17. Sheet A-002 : EW17 is missing references for the sheathing and wall board. Also, is batt insulation required?
 - a. See Revised sheet A-002
- 18. Sheet A-002 : What is the substrate of roof type R.3; metal deck?a. See Revised sheet A-002
- 19. Sheets A-401 through A-409 : General Note 15 refers to G7/A401. This should be G6/A-401.
 - a. Yes drawing has been revised
- 20. Sheet A-402 : Please label the whiteboards, tackboards, and televisions on the elevations.
 - a. Drawing has been revised to show whiteboard @ left and right and TV in the middle as tagged on plans
- 21. Sheet A-405 : Room B101E is named RF-1, but is shown as a toilet room. Is this correct?a. Drawing has been revised so room is labelled "Toilet Room"

- 22. Sheet A-406 : Detail B6 shows the countertop above the bottom of the windows. Is this correct?
 - a. Window height to be adjusted to be above casework (Casework is 30" a.f.f)
- 23. Will cast stone to cast stone and cast stone to masonry caulk or point with mortar?a. See Section 047200 3.02 D-4 for listing of joints to receive sealant.
- 24. F1 on A522 does not show caulking from the PVC fascia to the masonry. Please confirm no caulking is required in this location?
 - a. Caulking is required; use Sealant Type 1.
- 25. A5 on A502 shows 2" fire rated expansion joint in the exterior brick wall and the backup wall. Please confirm the 2" fire rated expansion will be required in both locations and which contract will be responsible for this work?
 - a. 2" expansion joint (C/S model VF or equivalent) is required at both veneer and backup wall as shown. Fire rating is required at backup wall, but not at brickveneer. C/S UlraBlock or equivalent system may be used. Expansion joints at both the masonry back-up wall and masonry veneer is to be provided by the masonry contracts.
- 26. See (2) attachments including product data for EFCO curtainwall and storefront systems. Can EFCO be added to the Curtainwall & Storefront specifications as approved equals?
 - a. Yes See Addendum No 2.
- 27. See attachment including product data for FRP Architectural Doors Inc. Can this manufacturer/product be added as an approved equal?
 - a. No not approved.
- 28. There is no spec for Section 092700 (Glass Fiber Reinforced Gypsum Fabrications) in the spec book. Also, that spec section is typically for interior GFRG Columns. I believe you want us to pick up the exterior entryway columns. If so, these columns are indicated as GFRC, which is Gypsum Fiber Reinforced Concrete. That would be a totally different spec section.
 - a. Spec Section 092700 has been deleted from the project; there are no GFRG fabrications required. GFRC columns are specified in Section 034900. GFRC columns are to be provided by Contract D-24 : Carpentry & General Works.
- 29. Can you remove the Installer Qualification requiring an AISC certified erector from the specs. It is in section 051200, 1.6 Quality Assurance (B)
 - a. Removed see Addendum No 2

- 30. Warranty term specified for the EPDM Roofing assembly states 30 years. For the 30 year warranty an .090 EPDM membrane is required to meet the warranty term. Please state warranty term you desire for the project. Twenty year warranty- .060 EPDM, Thirty year warranty- .090 EPDM.
 - a. 25 year warranty term is acceptable. See Addendum No 2.
- 31. Metal Roofing Panels. Specified is Centria SDP 175. Attached is the data sheet for a Firestone Una-Clad UC-14 metal roofing panel. We could offer a single source warranty to include the Firestone panel into the low slope warranty. Sample warranty for paint finish is also attached.
 - a. Firestone Una-Clad UC-14 is acceptable. See Addendum No 2.
- 32. There are a large amount of FRP & Aluminum doors missing information on Door Schedules A-601 & A-602. Please provide this information.
 - a. See Addendum No 2 for revised door scheduled
- 33. FRP Door / Alum Frame C126B & B199HB calls for 60-Min Rated. Please provide Specification for The fire rated Doors/Frames. We recommend these frames being changed to Hollow Metal due to the fire rating.
 - a. Change these doors to hollow metal doors/frames. See Addendum No 2.
- 34. Please provide frame type and material in B113 Seminar? No Tag is Shown on Floor Plan A-115.
 - a. See keynote 10.2 and Door Schedule note O4. This is a Glazed Interior Wall Assembly. Refer to Specification Section 102310.
- 35. FRP Door B128B is shown as a single on the door schedule A-601, but a pair on the floor plan A-116. Please clarify.
 - a. These are pairs. See Addendum No. 2.
- 36. Door B120A does not have a material type on the door schedule A-601. It is listed as a 3'-6" single door on the door schedule, but the floor plan shows a pair of doors on A-116. Please Clarify.
 - a. This is a FRP door, pair configuration. See Addendum No. 2
- 37. Architectural Page A-128.A shows a 2nd floor door E201A out to roof. This is not shown on the door schedule. Please add and confirm materials.
 - a. See Addendum No 2 door schedule.
- 38. Door Schedule lists FRP Doors GH101, GH102, GH104, PB100AA, PB100AB. I cannot locate these on the floor plan. Please confirm their location and if they are in the bid package C-13.
 - a. These doors are in Bid Pac E and are not in contract.

- 39. Architectural Page A-651, Details E6, C6, E8, C8, Please advise which storefronts are required to receive the aluminium panning in these details.
 - a. See storefront elevations for locations where panning is required. These details may also be referenced in door schedule where panning/storefront is required.
- 40. Window and Storefront assembly details show a panning system. Both Subframe and Panning are listed in 085113 Specification. We are requesting to provide a subframe receptor system in lieu of the panning, with a decorative trim and clip to be attached to the head and jambs as the molding. This will provide the same look, but provide a much better watertight system. You also can't use panning with storefronts as detailed on A-651. The storefronts will need to be changed to a trim and clip system. I have also had a couple specified manufactures say that the sill panning is too large and will not work, and that they are quoting a subsill with an extension in lieu of the sill panning. Please confirm a subframe receptor system is acceptable with exterior trim and clips for the decorative moldings.
 - a. Please provide proposed details at head , sill and jamb condiitons to see if subframe receptor system can replace details shown.
- 41. 085113 Windows Spec Paragraph 2.08 Finishes, calls for a multi-coat finish. . Please advise if a 2-CT or 3-CT is required, and if we are to price a manufactures standard color range, or a custom color.
 - a. Either 2-coat or 3-coat finish is acceptable, provided coating system is 70 percent PVDF and complies with AAMA 2605. Color will be selected from manufacturer's standard range. See Addendum No 2.
- 42. 085113 Windows Spec Paragraph 3.04 Field Quality Control says to field test (1) of each type of window. There are 15 different types of windows. Please confirm you want 15 field tests done on the windows, or if we are to assume only (1) field test on (1) window.
 - a. Test one of each Window Types W1-W7, plus window W1 in exterior mockup wall specified in Section 042000. Window to be tested to be selected at random by Architect.
- 43. 085113 Windows Spec Paragraph 2.07 Glazing, calls for tempered glass where required by code or indicated. Please confirm if any windows are to receive tempered glass.
 - a. See Revised sheets A610, A611, A612 in Addendum No 2
- 44. 085113 Window Spec does not call for any insect screens. Please advise if screens are required.
 - a. Screens are not required; single-hung windows are to be fixed in place.

- 45. CW-33 falls on this 2 Hour fire rated line. Please confirm that CW-33 is not required to be 2-hour fire rated.
 - a. CW-33 is perpendicular to the fire rated wall and does not need to be rated
- 46. In volume II, I cannot find spec section 092700 GFRG fabrications, am I just missing it somehow?
 - a. Spec Section 092700 has been deleted from the project; there are no GFRG fabrications required.
- 47. Tennant Company is requesting that their resonous flooring product be accepted as an approved equal. Please review attached product data and color charts and advise if this will be acceptable.
 - a. Substitution not accepted
- 48. Graham Architectural currently offers two 3-1/4" hung window products. The Graham Series 2000 is a 3-1/4" single hung sideload with a tested U-Value of 0.40. The Graham Series S3000 is a 3-1/4" double hung tilt with a tested U-Value of 0.44. Both products would deviate from the specified maximum U-Value of 0.37, however the specification does not indicate if this is a fixed performance value, or a single hung performance value. The Graham Series 1200 fixed product does comply with all performance specifications. Graham Architectural typically supplies sideload hung windows in school applications. A double hung tilt window is usually specified to permit glass cleaning from interior. If interior glass cleaning is required, a double hung tilt window would be the correct application. The top glass of a single hung tilt widow does not tilt in. Cleaning from the interior would be very difficult. Please advise if either the Graham Series 2000 single hung side load or Series S3000 double hung side load is acceptable.
 - U-value requirements are required for fixed and single-hung windows in order to meet Energy Code requirements, and will be grounds for disapproval. Additional product data and comparison data is required in order to review substitution request further.
- 49. Per Specification 085113, Paragraph 2.05, Section F (Exterior Panning), please see the attached recommended profile of panning from Graham. Per specification, Architect must approve a panning profile 10 days prior to bid.
 - a. Received see response to question 48 above.
- 50. It is understood if a feeder conduit originates in Bid Pack C and runs into Bid Pack D, we are to include it in Bid Pack C. Will it also be safe to assume if a feeder conduit originates in Bid Pack D and terminates in Bid Pack D we are not to include it in Bid Pack C?

- a. This is correct. Any feeder conduit originating in Bid Package D areas (A, B, C) and terminating within these same areas is to be provided by Contract D-46 : Electrical.
- 51. Should the lightning protection include the whole project or just the areas pertaining to Bid Pack C?
 - Lightning protection of the entire main structure (High School, Gymnasium, Performing Arts Center, and Middle School) is to be provided by Contract C-21 : Electrical. Lightning protection is to be deleted from Contract D-46 : Electrical. See changes in Addendum #2.
- 52. On Drawing E-151, is transformer TFH-1 included in Bid Package 'C'?
 - a. No. Contract C-21 : Electric is to provide conduit and power wiring to the Field House Transformer location. Contract E-51 : Field House General Contract will provide the transformer and pad and will make final connections to the power wiring provided by Contract C-21. All conduit and wiring for the field house from TFH-1 will be provided under Contract E-51.
- 53. On Drawing E-151, are manhole and conduit for future field lighting at field house part of Bid Package 'C'?
 - a. No. The manhole and conduit for future field lighting are to be provided by Contract E-50 : Athletic Lighting, Sounds, Scoreboards.
- 54. Spec Section 011100 under the Summary of Work Contract No. C-21 it references Contract C-22 frequently. Please clarify?
 - a. This was listed in error. All references to Contract C-22 within the Summary of Work for contract C-21 was meant to reference C-21. Please see changes in Addendum #2.

MODIFICATIONS TO SPECIFICATIONS:

- 1) BID PAC C VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract C-10 : EPDM Roofing
 - a. Page 20 Bullet #13 ADD "including caulking related to the skylight assembly and installation."
- BID PAC C VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract C-12 : Metal Studs & Drywall (High School & Gymnasium)
 - a. Page 25 Bullet #22 ADD "2-hour fire rated expansion joints for masonry-tomasonry as seen on Sheets A-501 and A-502 is to be provided by Contract C-07 : Masonry."
- BID PAC C VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract C-13 : Glass & Glazing (High School & Gymnasium)

- a. Page 28 ADD Bullet #29 "Provide Glazed Interior Wall and Door Assemblies."
- 4) BID PAC C VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract C-14 : Joint Sealants
 - a. Page 29 Bullet #2d DELETE "and Skylights"
- 5) BID PAC C VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract C-21 : Electrical (High School & Gymnasium)
 - a. Page 48 Bullet #1a DELETE "C-22" and replace with "C-21"
 - b. Page 48 Bullet #1a DELETE "D-48" and replace with "D-46"
 - c. Page 48 Bullet #1a ADD "Contract C-21 is to continue/extend conduit and wire feeders above ground to final panelboard locations including those on the 2nd Floor or Mezzanine/Penthouse Areas."
 - d. Page 49 Bullet #4 DELETE "C-22" and replace with "C-21"
 - e. Page 49 Bullet #9 DELETE "C-22" and replace with "C-21"
 - f. Page 50 Bullet #21 ADD "for entire main structure (Areas A, B, C, D, E, F, G, H)."
- 6) BID PAC D VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract D-25 : Metal Studs & Drywall (P.A.C. & Middle School)
 - a. Page 20 Bullet #24 ADD "2-hour fire rated expansion joints for masonry-tomasonry as seen on Sheets A-501 and A-502 is to be provided by Contract D-22 : Masonry."
- 7) BID PAC D VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract D-27 : Glass & Glazing (P.A.C. & Middle School)
 - a. Page 26 ADD Bullet #29 "Provide Glazed Interior Wall and Door Assemblies."
- 8) BID PAC D VOL 1 SPECIFICATION SECTION 011100 : Summary of Work Contract D-46 : Electrical (P.A.C. & Middle School)
 - a. Page 63 Bullet #1a ADD "Contract C-21 is to continue/extend conduit and wire feeders above ground to final panelboard locations including those on the 2nd Floor or Mezzanine/Penthouse Areas."
 - **b.** Page 65 Bullet #20 DELETE "Provide Lightning protection with master UL certification."
- 4) SPECIFICATION SECTION 051200 STRUCTURAL STEEL Page 051200-2, Article 1.6, Paragraph B :

Delete Paragraph B.

- 5) SPECIFICATION SECTION 074113 METAL ROOF PANELS Page 074113-2, Article 2.01, Paragraph B, subparagraph 5: Add subparagraph:
 - a. Other Approved manufacturers/Products: Firestone Building Products, UNA-CLAD UC-14: www.firestonebp.com.
- 6) SPECIFICATION SECTION 075300 ELASTOMERIC MEMBRANE ROOFING Page 075300-2, Article 1.09, Paragraph C, subparagraph 1: Change to read::
 - 1. Warranty Period: 25 years from date of Substantial Completion.
- SPECIFICATION SECTION 084313 ALUMINUM-FRAMED STOREFRONTS Page 084313-3, Article 2.01, Paragraph D: Add subparagraph:
 - 3. EFCO Corporation: www.efcocorp.com

Page 084313-3, Article 2.02, Paragraph D:

Add subparagraph:

3. EFCO Corporation: www.efcocorp.com

Page 084313-3, Article 2.03, Paragraph B:

Add subparagraph:

- 3. EFCO Corporation: www.efcocorp.com
- 8) SPECIFICATION SECTION 084413 GLAZED ALUMINUM CURTAIN WALLS Page 084413-3, Article 2.01, Paragraph D: Add subparagraph:
 - 3. EFCO Corporation: www.efcocorp.com
- 9) SPECIFICATION SECTION 085113 ALUMINUM WINDOWS Page 084413-7, Article 2.08, Paragraph A, subparagraph 1: Delete text: "color and gloss as indicated on drawings" Replace with: "color as selected from manufacturers standard range."

Page 084413-7, Article 3.04, Paragraph A, subparagraph 1: Change to read:

1. Test one (1) window of each type, for Window Types W1-W7, as directed by Architect. Test one (1) W1 window in exterior mockup wall. Assume up to three (3) mobilizations for window testing.

10) SPECIFICATION SECTION 230900, AUTOMATIC TEMPERATURE CONTROLS

Page 230900-14, Delete Paragraphs 2.9.N.1, N.2, and N.3: and REPLACE with the following:

"N.1 Kitchen D105 - Hood Exhaust Fan & Make-Up Air Unit Control:

- 1. This system consists of EF-D1, MAU-D1, and ventilator item 20 as shown on the drawings.
- 2. The hood exhaust fan and make-up air unit shall be energized manually by an on/off switch provided as part of the hood. Interface with this switch in accordance with hood manufacturer's written instructions.
 - a. Mount the remote temperature sensor furnished with the hood as shown on the drawings.
- 3. The kitchen equipment manufacturer shall provide the BAS Contractor with wiring diagrams for the hood and all factory sensors.
- 4. The following items shall be provided by the make-up air unit manufacturer:
 - a. Motor starter and overload protection.
 - b. Outside air damper and actuator.
 - c. Remote control panel.
 - d. Terminal blocks for all wiring connections between equipment and control

devices.

- 5. Whenever fan switch is engaged in the 'ON' position, the exhaust fan and make-up air supply fan shall be energized.
 - a. Provide a current switch on one phase of the power feeding the exhaust fan. When current is sensed, indicating that the exhaust fan has been energized, the make-up air unit outside air damper shall open 100% and the supply fan shall be energized.
 - b. On a fall in discharge air temperature below setpoint of 65°F, adjustable, the gas heat shall stage and modulate through its unit-mounted controls to maintain setpoint. Discharge air temperature shall be manually adjustable through the remote-control panel furnished with the makeup air unit.
- 6. Provide a current switch on one phase of power feeding the supply fan for monitoring and alarm generation at the OWS.
- 7. The system shall prevent the circulation of smoke. Upon activation of the duct smoke detector in the supply air ducts in the vicinity of the hood, the unit shall stop and all dampers shall close. The Mechanical Contractor shall install duct smoke detector furnished as part of the work of Division 26 Electric.
- 8. Interface with a common fire alarm input to the BAS system from the fire alarm system (FAS). The fire alarm contact shall be provided by the fire alarm system vendor at the FAS panel. The status of the alarm contact shall be communicated throughout the BAS. When the fire alarm contact indicates an alarm condition, the BAS shall de-energize the supply fan, exhaust fan, gas heat and damper motors. When de-energized, the damper motor shall spring return the outside air damper closed. NOTE: the FAS shall also shut down the unit whenever the room CO (carbon monoxide) detector goes into alarm.
 - a. If the kitchen ventilator exhaust fan is running and the hood fire suppression

system is activated manually, the exhaust fan shall continue to run until deactivated by the FAS or manually shut down at the hood.

- b. The MAU shall shut down whenever the hood suppression system or fire alarm system is activated. Provide interface with each system.
- 9. The following items shall be displayed for each system at the OWS:
 - a. Discharge air temperature.
 - b. Discharge air temperature setpoint.
 - c. Discharge low limit alarm.
 - d. Fire alarm system status alarm.
 - e. Commanded status of fans.
 - f. Supply fan operational status via current switch.
 - g. Exhaust fan operational status via current switch.
 - h. Smoke detector status/alarm.
 - *i.* Diagram showing the layout of the equipment with major components and dynamic temperatures shown where temperature sensors exist in the system.
- N.2 Pizza Oven Hood Exhaust Fan & Make-Up Air Unit Control: Kitchen D105
 - 1. The sequence that follows is typical for two systems:
 - a. Middle School Servery includes EF-D2, MAU-D2, and ventilator item 33.
 - b. High School Servery includes EF-D4, MAU-D3, and ventilator item 33.
 - 2. The hood exhaust fan and make-up air unit shall be energized manually by an on/off switch provided as part of the hood. Interface with this switch in accordance with hood manufacturer's written instructions.
 - a. Mount the remote temperature sensor furnished with the hood as shown on the drawings.
 - 3. The kitchen equipment manufacturer shall provide the BAS Contractor with wiring diagrams for the hood and all factory sensors.
 - 4. The following items shall be provided by the make-up air unit manufacturer:
 - a. Motor starter and overload protection.
 - b. Outside air damper and actuator.
 - c. Remote control panel.
 - d. Terminal blocks for all wiring connections between equipment and control

devices.

- 5. Whenever fan switch is engaged in the 'ON' position, the exhaust fan and make-up air supply fan shall be energized.
 - a. Provide a current switch on one phase of the power feeding the exhaust fan. When current is sensed, indicating that the exhaust fan has been energized, the make-up air unit outside air damper shall open 100% and the supply fan shall be energized.
 - b. On a fall in discharge air temperature below setpoint of 65°F, adjustable, the gas heat shall stage and modulate through its unit-mounted controls to maintain setpoint. Discharge air temperature shall be manually adjustable through the remote-control panel furnished with the makeup air unit.

- 6. Provide a current switch on one phase of power feeding the supply fan for monitoring and alarm generation at the OWS.
- 7. Interface with a common fire alarm input to the BAS system from the fire alarm system (FAS). The fire alarm contact shall be provided by the fire alarm system vendor at the FAS panel. The status of the alarm contact shall be communicated throughout the BAS. When the fire alarm contact indicates an alarm condition, the BAS shall de-energize the supply fan, exhaust fan, gas heat and damper motors. When de-energized, the damper motor shall spring return the outside air damper closed. NOTE: the FAS shall also shut down the unit whenever the room CO (carbon monoxide) detector goes into alarm.
 - a. If the kitchen ventilator exhaust fan is running and the hood fire suppression system is activated manually, the exhaust fan shall continue to run until deactivated by the FAS or manually shut down at the hood.
 - b. The MAU shall shut down whenever the hood suppression system or fire alarm system is activated. Provide interface with each system.
- 8. The following items shall be displayed for each system at the OWS:
 - a. Discharge air temperature.
 - b. Discharge air temperature setpoint.
 - c. Discharge low limit alarm.
 - d. Fire alarm system status alarm.
 - e. Commanded status of fans.
 - f. Supply fan operational status via current switch.
 - g. Exhaust fan operational status via current switch.
 - *h.* Diagram showing the layout of the equipment with major components and dynamic temperatures shown where temperature sensors exist in the system.
- N.3 Culinary Arts Kitchen Hood Exhaust Fan & Make-Up Air Unit Control:
 - 1. The sequence that follows is typical for the following systems:
 - a. Culinary Kitchen (1/2) includes:
 - (1) EF-B4 and ventilator item K2.
 - (2) EF-B5 and ventilator item K1.
 - (3) MAU-B3 serves both ventilators.
 - b. Culinary Kitchen (3/4) includes:
 - (1) EF-B1, ventilator item C17, makeup air unit MAU-B1.
 - (2) EF-B2, ventilator item C30, makeup air unit MAU-B2.
 - 2. The hood exhaust fan and make-up air unit shall be energized manually by an on/off switch provided as part of the hood. Interface with this switch in accordance with hood manufacturer's written instructions.
 - a. Mount the remote temperature sensor furnished with the hood as shown on the drawings.
 - b. Units serving the Culinary Kitchen (1/2) shall operate in unison upon activation of either ventilator exhaust fan.
 - 3. The kitchen equipment manufacturer shall provide the BAS Contractor with wiring diagrams for the hood and all factory sensors.

- 4. The following items shall be provided by the make-up air unit manufacturer:
 - a. Motor starter and overload protection.
 - b. Outside air damper and actuator.
 - c. Remote control panel.
 - d. Terminal blocks for all wiring connections between equipment and control

devices.

- 5. Whenever fan switch is engaged in the 'ON' position, the exhaust fan and make-up air supply fan shall be energized.
 - a. Provide a current switch on one phase of the power feeding the exhaust fan. When current is sensed, indicating that the exhaust fan has been energized, the make-up air unit outside air damper shall open 100% and the supply fan shall be energized.
 - b. On a fall in discharge air temperature below setpoint of 65°F, adjustable, the gas heat shall stage and modulate through its unit-mounted controls to maintain setpoint. Discharge air temperature shall be manually adjustable through the remote-control panel furnished with the makeup air unit.
 - c. Provide a motor operated damper and actuator for the branch exhaust air duct in the kitchen, as shown on the drawings. Whenever the hood exhaust fan is activated, the branch exhaust air damper shall close. Whenever the hood exhaust fan is shut down, the branch damper shall open.
- 6. Provide a current switch on one phase of power feeding the supply fan for monitoring and alarm generation at the OWS.
- 7. The system shall prevent the circulation of smoke. Upon activation of the duct smoke detector in the supply air ducts in the vicinity of the hood, the unit shall stop and all dampers shall close. The Mechanical Contractor shall install duct smoke detector furnished as part of the work of Division 26 Electric.
- 8. Interface with a common fire alarm input to the BAS system from the fire alarm system (FAS). The fire alarm contact shall be provided by the fire alarm system vendor at the FAS panel. The status of the alarm contact shall be communicated throughout the BAS. When the fire alarm contact indicates an alarm condition, the BAS shall de-energize the supply fan, exhaust fan, gas heat and damper motors. When de-energized, the damper motor shall spring return the outside air damper closed. NOTE: the FAS shall also shut down the unit whenever the room CO (carbon monoxide) detector goes into alarm.
 - a. If the kitchen ventilator exhaust fan is running and the hood fire suppression system is activated manually, the exhaust fan shall continue to run until deactivated by the FAS or manually shut down at the hood.
 - b. The MAU shall shut down whenever the hood suppression system or fire alarm system is activated. Provide interface with each system.
- 9. The following items shall be displayed for each system at the OWS:
 - a. Discharge air temperature.
 - b. Discharge air temperature setpoint.
 - c. Discharge low limit alarm.
 - d. Fire alarm system status alarm.
 - e. Commanded status of fans.

- f. Supply fan operational status via current switch.
- g. Exhaust fan operational status via current switch.
- h. Smoke detector status/alarm.
- *i.* Diagram showing the layout of the equipment with major components and dynamic temperatures shown where temperature sensors exist in the system.

Page 230900-43, Delete Paragraphs 2.11, 2.12, and 2.13: REPLACE with the following:

2.11 SEQUENCE OF OPERATION: Field House

- A. Building Network Panel
 - 1. The building network control panel shall be located in the Trainer's Office, Room FH45, as shown on the drawings, or as directed by the Owner. The system shall be capable of remote monitoring from the OWS in Room D113. Coordinate with the Ethernet link between buildings as provided by Division 26 – Electric.
 - 2. Coordinate required capacity and features to accommodate this project.
 - 3. All control programs and application features shall reside in the building network panel.
 - 4. Provide subsequent levels of control capability to whatever extent necessary to achieve performance required for individual units in their respective local dedicated controllers.
 - 5. Coordinate with the Owner to establish occupied/unoccupied schedules and setpoints. Enter the schedules and setpoints into the system. Provide the required number of input/output points to achieve the specified sequences of operation and monitoring/alarm points.
 - 6. Provide space mounted temperature sensors with guards for monitoring and alarm generation at the OWS. On a fall in space temperature below the programmed low limit setpoint of 50°F, adjustable, an alarm shall be activated.
- B. Packaged Terminal Heat Pump Unit Control:
 - 1. Each of three units is equipped with a factory furnished, wall mounted programmable thermostat. Interface thermostat with each unit as shown on the drawings.
 - 2. Set unit thermostat to maintain schedule and setpoints as directed by Owner's representative.
- C. Exhaust Fan Control:
 - 1. Each exhaust fan shall be energized during the occupied period and de-energized during the unoccupied period via the BAS. The damper shall be open during the occupied mode and shall be closed during the unoccupied mode.
 - a. Interlock EF-1 with GFH-1.
 - b. Interlock EF-2 with GFH-2.
 - c. Interlock EF-4 with GF-1.
 - 2. Provide a motor operated damper and actuator for each exhaust fan as shown on the drawings. The damper shall be installed by the Mechanical Contractor.
 - 3. Subject to a limit switch on the exhaust air damper, the fan shall run continuously during the occupied mode.
 - 4. Provide a current switch on one phase of power feeding the fan for status indication

at the OWS

- 5. The following items shall be displayed at the OWS:
 - a. Fan status via current switch: on/off.
 - b. Commanded status of exhaust air damper: open/closed.
- D. Gas Fired Heater/Blower Unit Control
 - 1. Provide a wall mounted temperature sensor and guard as shown on the drawings; interface with factory controls as shown on the drawings.
 - 2. Provide motor operated damper and actuator for control of outside air at the intake louver.
 - 3. Provide motor operated dampers and actuators for control of return air at the unit.
 - 4. During the occupied mode, sensor shall open outside air damper fully, return air dampers shall remain closed, activate unit gas controls, and start unit fan to maintain space temperature at 68 °F, adjustable. Unit fan shall continue to run after the gas heat exchanger is de-energized to dissipate heat to a preset temperature. Then the fan shall stop and air damper shall close.
 - 5. During the unoccupied mode, outside air damper shall remain closed and the return air dampers at the unit shall remain fully open. Sensor shall activate the unit fan and gas heating section to maintain space temperature at 55 °F, adjustable.
 - 6. Provide the following indications to the system:
 - a. Space temperature and setpoint.
 - *b.* Low temperature alarm, 50°F, adjustable.
 - c. Commanded status of unit fan through current switch.
 - d. Commanded status of outside air and return air dampers
- E. Split System Gas Furnace Unit Control:
 - 1. The system GF-1/ACC-1 shall be controlled by its factory controls. Adjust factory controls to allow the indoor unit fan to cycle off once space temperature is achieved. Mount and wire the programmable thermostat, which is furnished by the equipment manufacturer, and interlock the controls from the indoor unit to the outdoor unit. Provide guard on thermostat.
 - 2. Provide motor operated dampers and actuators for control of outside air and return air at the unit.
 - 3. During the occupied mode, thermostat shall open outside air damper to its minimum position, return air damper shall move to maintain the balance of air in the system.
 - a. Thermostat shall activate unit gas controls and start unit fan to maintain space temperature at 68 °F, adjustable. Unit fan shall continue to run after the gas heat exchanger is de-energized to dissipate heat to a preset temperature. Then the fan shall stop and all air dampers shall close.
 - b. On a rise in space temperature above setpoint, the thermostat shall activate DX system controls, start unit fan to maintain space temperature at 75 °F, adjustable. De-energize fan once setpoint is achieved and close all dampers.
 - 4. During the unoccupied mode, outside air damper shall remain closed and the return air damper at the unit shall remain fully open. Thermostat shall activate the unit fan and gas heating section to maintain space temperature at 55 °F, adjustable. System shall remain off during the cooling season.

- 5. Provide the following indications to the system:
 - a. Space temperature and setpoint.
 - b. Low temperature alarm, 50°F, adjustable.
 - c. Commanded status of unit fan through current switch.
 - d. Commanded status of outside air and return air dampers
- F. Electric Heater Control:
 - 1. Provide control voltage relay for each unit for activation through the OWS based on the owner's occupancy schedule.
 - 2. Provide wall mounted temperature sensor with guard for each cabinet heater, ECH-1 and -2, and unit heater, EUH-1. Set to maintain 65 °F during the occupied mode and 55 °F during the unoccupied mode.
 - 3. Set unit thermostat on the wall heaters, EWH-1 to EWH-4, to maintain 65 °F when activated by the OWS.
 - 4. Provide space temperature and unit status as indications to the system.
- G. Utility Room FH49 Ventilation System Control
 - 1. This system consists of exhaust fan EF-3 and an outside air intake louver. Provide motor operated dampers and actuators for control of exhaust and outside air in the room. Provide space temperature sensor with guard as shown on the drawings.
 - 2. On a rise in space temperature above 80°F, adjustable, the exhaust air and outside air dampers shall open. Subject to a limit switch on the exhaust air damper, the exhaust fan shall start. On a fall in space temperature below setpoint, the fan shall be de-energized and all dampers shall close.
 - 3. The following items shall be displayed at the OWS:
 - a. Space temperature.
 - b. High temperature alarm, 100°F, adjustable.
 - c. Ventilation setpoint.
 - d. Commanded status of exhaust fan and dampers.
 - H. Fire Alarm System Interface
 - 1. FAS devices such as fire and smoke detection shall alarm the local FAS panel which shall initiate an alarm condition to the network panel.
 - 2. All fans shall shut down and all dampers shall close.
- 2.12 SEQUENCE OF OPERATION: Maintenance Building
 - A. Building Network Panel
 - 1. The building network control panel shall be located in the Office, Room 104, as shown on the drawings, or as directed by the Owner. The system shall be capable of remote monitoring from the OWS in Room D113. Coordinate with the Ethernet link between buildings as provided by Division 26 Electric.
 - 2. Coordinate required capacity and features to accommodate this project.
 - 3. All control programs and application features shall reside in the building network panel.
 - 4. Provide subsequent levels of control capability to whatever extent necessary to achieve performance required for individual units in their respective local dedicated

controllers.

- 5. Coordinate with the Owner to establish occupied/unoccupied schedules and setpoints. Enter the schedules and setpoints into the system. Provide the required number of input/output points to achieve the specified sequences of operation and monitoring/alarm points.
- 6. Provide a space mounted temperature sensor with guard for monitoring and alarm generation at the OWS. On a fall in space temperature below the programmed low limit setpoint of 50°F, adjustable, an alarm shall be activated.
- B. Packaged Terminal Heat Pump Unit Control:
 - 1. The unit is equipped with a factory furnished, wall mounted programmable thermostat. Interface thermostat with unit as shown on the drawings.
 - 2. Set unit thermostat to maintain schedule and setpoints as directed by Owner's representative.
- C. Electric Wall Heater Control
 - 1. The heater is furnished with a unit-mounted thermostat.
 - 2. Set thermostat to maintain 65 °F, adjustable.
 - 3. Provide control voltage relay for the unit for activation through the OWS based on the owner's occupancy schedule.
 - 4. Provide space temperature and unit status as indications to the system.
- D. Exhaust Fan Control
 - 1. Interface exhaust fan EF-2 with room occupancy sensor.
 - 2. Provide motor operated damper and actuator for control of exhaust air.
 - 3. Sensor shall open damper fully and activate fan to run continuously whenever room is in use.
- E. Gas Unit Heater Control
 - 1. Each unit is furnished with a wall mounted thermostat and guard.
 - 2. Provide control wiring between each unit and its thermostat.
 - *3.* Set thermostat to maintain 65 °F, adjustable.
- *F.* Vehicle Bay Ventilation Control
 - 1. This system consists of exhaust fan EF-1 and outside air intake louver with damper.
 - 2. Provide manual wall switch to activate the system, motor operated dampers and actuators for control of outside air at the louver, and exhaust air at the roof fan.
 - 3. Upon manual activation at the switch, air dampers shall open fully and fan shall run continuously. When deactivated, fan shall stop and all dampers shall close.
 - G. Fire Alarm System Interface
 - 1. FAS devices such as fire and smoke detection shall alarm the local FAS panel which shall initiate an alarm condition to the network panel.
 - 2. All fans shall shut down and all dampers shall close.
- 2.13 SEQUENCE OF OPERATION: Greenhouse/Headhouse Building
 - A. Building Network Panel
 - 1. The building network control panel shall be located in the Sales Office, Room GH102, as shown on the drawings, or as directed by the Owner. The system shall be

capable of remote monitoring from the OWS in Room D113. Coordinate with the Ethernet link between buildings as provided by Division 26 – Electric.

- 2. Coordinate required capacity and features to accommodate this project.
- 3. All control programs and application features shall reside in the building network panel.
- 4. Provide subsequent levels of control capability to whatever extent necessary to achieve performance required for individual units in their respective local dedicated controllers.
- 5. Coordinate with the Owner to establish occupied/unoccupied schedules and setpoints. Enter the schedules and setpoints into the system. Provide the required number of input/output points to achieve the specified sequences of operation and monitoring/alarm points.
- 6. Provide a space mounted temperature sensor with guard for monitoring and alarm generation at the OWS. On a fall in space temperature below the programmed low limit setpoint of 50°F, adjustable, an alarm shall be activated.
- B. Headhouse HVAC Control
 - 1. This system consists of gas furnace GF-1 and remote condenser ACC-1.
 - a. The furnace is furnished with a programmable wall mounted thermostat. Mount and wire the thermostat to the furnace and condensing unit per manufacturer's instructions.
 - b. Provide motor operated dampers and actuators for control of outside air and return air at the furnace as shown on the drawings.
 - 2. During the occupied mode, thermostat shall open outside air damper and return air damper to maintain the balance of air in the unit. Thermostat shall start unit fan and activate unit gas controls or cooling components in sequence to maintain space temperature at 65 °F, adjustable (heating) or 75 °F, adjustable (cooling). Unit fan shall continue to run after the gas heat exchanger is de-energized to dissipate heat to a preset temperature. Once space temperature is reached in either mode, the unit fan shall stop and all air dampers shall close.
 - 3. During the unoccupied mode, outside air damper shall remain closed and the return air damper at the unit shall remain fully open. Thermostat shall activate the unit fan and gas heating section to maintain space temperature at 55 °F, adjustable. Unit shall remain off in the cooling mode.
 - 4. Provide the following indications to the system:
 - a. Space temperature and setpoint.
 - b. Low temperature alarm, 50°F, adjustable.
 - c. Commanded status of unit fan through current switch.
 - d. Commanded status of outside air and return air dampers.
- C.1 Electric Wall Heater Control
 - 1. The heater is furnished with a unit-mounted thermostat.
 - 2. Set thermostat to maintain 65 °F, adjustable.
 - 3. Provide control voltage relay for each unit for activation through the OWS based on the owner's occupancy schedule.
 - 4. Provide space temperature and unit status as indications to the system.

- C.2 Electric Cabinet Heater Control:
 - 1. Provide control voltage relay for activation through the OWS based on the owner's occupancy schedule.
 - 2. Provide wall mounted temperature sensor with guard for cabinet heater, ECH-1. Set to maintain 65 °F during the occupied mode and 55 °F during the unoccupied mode.
 - 3. Provide space temperature and unit status as indications to the system.
- D. Headhouse Exhaust Fan Control
 - 1. Provide motor operated damper and actuator for control of exhaust air at the roof.
 - 2. During the unoccupied mode, damper shall remain closed and fan EF-1 shall be off.
 - 3. During the occupied mode specified for the gas furnace unit, damper shall open fully and fan shall run continuously subject to limit switch on the damper actuator.
 - 4. Provide the following indications to the system:
 - a. Commanded status of fan through current switch.
 - b. Commanded status of exhaust air damper.
- E. Fire Alarm System Interface
 - 1. FAS devices such as fire, smoke, and CO detection shall alarm the local FAS panel which shall initiate an alarm condition to the network panel.
 - 2. All fans shall shut down and all dampers shall close.

11) <u>SECTION 260110, RACEWAYS</u>

Page 260110-2, Paragraph 2.1.D.3: ADD Cantex, Inc.

12) <u>SECTION 260120, WIRES AND CABLES</u>

Page 260120-1, Paragraph 2.1.A: ADD Prysonian (Pirelli) as an equal manufacturer.

13) <u>SECTION 260771, INTERCOM/TELECOMMUNCAITONS SYSTEM</u>

Page 260771-3, Paragraph 1.6.A: REVISE one (1) year warranty to two (2) year warranty.

14) <u>SECTION 280721, FIRE ALARM AND DETECTION SYSTEMS</u>

Page 280721-23, Paragraph 2.4: DELETE in its entirety. Smoke purge equipment provided by ATC Contractor.

Page 280721-23, Paragraph 2.5: DELETE in its entirety. Smoke purge equipment provided by ATC Contractor.

MODIFICATIONS TO DRAWINGS:

1) <u>Architectural Drawings</u>

a. Delete Drawing A-001, and replace with Drawing A-001, Revision 3, dated 03/09/2018, attached to this Addendum.

- b. Delete Drawing A-002, and replace with Drawing A-002, Revision 3, dated 03/09/2018, attached to this Addendum.
- c. Delete Drawing A-101, and replace with Drawing A-101, Revision 2, dated 03/09/2018, attached to this Addendum.
- d. Delete Drawing A-102, and replace with Drawing A-102, Revision 2, dated 03/09/2018, attached to this Addendum.
- e. DRAWING A113:
 - Detail A1: In Rooms C107, C107A, C108, C120, C122, C124: Change exterior window tag from "W13" to "SF12"
- f. Delete Drawing A-133, and replace with Drawing A-133, Revision 2, dated 03/09/2018, attached to this Addendum.
- g. DRAWING A401:
 - At Details F1, G2, H1, and H6, Add Note: See Floor Plans for quantities, types and locations of markerboards and tackboards.
- h. DRAWING A402:
 - At Details A1, B1, C1 and E5, Add Note: See Floor Plans for quantities, types and locations of markerboards and tackboards.
- i. DRAWING A405:
 - Detail A6: Change Room Label at Room B101E to read: "TLT"
- j. Delete Drawing A-491, and replace with Drawing A-491, Revision 2, dated 03/09/2018, attached to this Addendum.
- k. Delete Drawing A-494, and replace with Drawing A-494, Revision 2, dated 03/09/2018, attached to this Addendum.
- 1. Delete Drawing A-497, and replace with Drawing A-497, Revision 1, dated 03/09/2018, attached to this Addendum.
- m. DRAWING A522:
 - At Details A1 and F1, Add note: "Provide backer rod and sealant at PVC to masonry."
- n. Delete Drawing A-601, and replace with Drawing A-601, Revision 2, dated 03/09/2018, attached to this Addendum.

- o. Delete Drawing A-602, and replace with Drawing A-602, Revision 2, dated 03/09/2018, attached to this Addendum
- p. Delete Drawing A-603, and replace with Drawing A-603, Revision 2, dated 03/09/2018, attached to this Addendum
- q. Delete Drawing A-610, and replace with Drawing A-610, Revision 2, dated 03/09/2018, attached to this Addendum.
- r. Delete Drawing A-611, and replace with Drawing A-611, Revision 2, dated 03/09/2018, attached to this Addendum.
- s. Delete Drawing A-612, and replace with Drawing A-612, Revision 2, dated 03/09/2018, attached to this Addendum.
- t. Delete Drawing A-661, and replace with Drawing A-661, Revision 1, dated 03/09/2018, attached to this Addendum.
- u. Delete Drawing A-662, and replace with Drawing A-662, Revision 1, dated 03/09/2018, attached to this Addendum.
- v. Delete Drawing A-663, and replace with Drawing A-663, Revision 1, dated 03/09/2018, attached to this Addendum.

2) <u>Structural Drawings</u>

- a. DRAWING S123:
 - Add Note: Provide Bearing Plate Type 'BP1' at each steel beam bearing on 8" cmu (unless noted otherwise).
 - Replace Deck Type 'D3' at Studio Theater Gallery Floor with Deck Type 'D4'.

3) <u>Plumbing Drawings</u>

- a. Drawing P-103, BELOW SLAB PLAN PLUMBING AREA 'C'
 - ADJUST invert elevation for the 10 inch storm drain exiting the front of the building and the two exiting the rear of the building under the electrical transformer room C104B. Refer to attached revised Drawing P-103.
- b. Drawing P-104, BELOW SLAB PLAN PLUMBING AREA 'D'
 - ADD 4 inch sanitary to serve toilet rooms D104 and D102. 4 inch sanitary pipe to exit the building next to the grease interceptor under the dry

storage room D105C and tie into Civils connection. Refer to attached revised Drawing P-104.

- ADJUST Invert elevation for the change in length of pipe of the 6 inch sanitary exiting the building under the sport medicine room D119. Refer to attached revised Drawing P-104.
- c. Drawing P-105, BELOW SLAB PLAN PLUMBING AREA 'E'
 - REMOVE 4 inch sanitary pipe running underneath the corridor serving the toilet room D104 and D102. Refer to attached revised Drawing P-105.
- d. Drawing P-114, FIRST FLOOR PLAN PLUMBING AREA 'D'
 - ADD floor cleanouts in the dry storage D105C and MS servery D105D room to serve new 4" sanitary pipe added. Refer to attached revised Drawing P-114.
 - MOVE 2-inch vent down to opposite wall in janitors D102A room. Refer to attached revised Drawing P-114.
- e. Drawing P-115, FIRST FLOOR PLAN PLUMBING AREA 'E'
 REMOVE wall cleanout removed in corridor B100G serving portion of 4" sanitary being removed. Refer to attached revised Drawing P-115.

4) <u>Mechanical Drawings</u>

- a. Drawing M-118, FIRST FLOOR PLAN MECHANICAL HVAC AREA 'H'
 - REVISE layout in Lobby E110H, Vestibule E100J and Lobby E100B. Refer to attached revised Drawing M-118.
- b. Drawing M-118A, FIRST FLOOR PLAN MECHANICAL HVAC AREA 'H' ALTERNATE
 - REVISE layout in Lobby E100H, Vestibule E100J and Lobby E100B. Refer to attached revised Drawing M-118A.
- c. Drawing M-127, SECOND FLOOR PLAN MECHANICAL HVAC AREA 'H'
 - REVISE layout in Upper Lobby E110H and Upper Lobby E100B. Refer to attached revised Drawing M-127.
- d. Drawing M-127A, SECOND FLOOR PLAN MECHANICAL HVAC AREA 'H' ALTERNATE
 - REVISE layout in Upper Lobby E100H and Upper Lobby E100B. Refer to attached revised Drawing M-127A.
- e. Drawing MP-118A, FIRST FLOOR PLAN MECHANICAL/PLUMBING AREA 'H'

ALTERNATE

 RELOCATE FCU-E1.1 and associated piping. Refer to attached revised Drawing MP-118A.

f. Drawing M-600, SCHEDULES – MECHANICAL

– <u>ROOFTOP ENERGY RECOVERY UNIT SCHEDULE (HIGH SCHOOL –</u> <u>ALTERNATE)</u>

1. REVISE ERU-E2 SUPPLY CFM & OA CFM to 4420

g. Drawing M-601, SCHEDULES - MECHANICAL

- FAN SCHEDULE (HIGH SCHOOL):

1. REVISE Note #1 to read:

"Fan shall be provided with: High temp. coating, steel isolation base and one-inch spring isolators, welded scroll with grease trap and drain, bolted access door, heat slinger, high temp shaft seals, spare belt set, and be UL762 listing for type 1 duty."

2. REVISE Note #2 to read:

"Fan shall be provided with: High temp coating, drain trough with grease trap, heat baffle, galvanized roof curb with vented extension, hinged curb cap with cables, extended lube lines, spare belt set, and be UL762 listing for type 1 duty."

- 3. Clarification to Note #3: Speed controller shall be factory mounted and wired
- 4. Clarification to Note #5: Speed controller shall be factory mounted and wired
- 5. Clarification to Note #6: Speed controller shall be factory mounted and wired
- 6. Clarification to Note #8: Speed controller shall be factory mounted and wired
- 7. Clarification to Note #10: Speed controller shall be factory mounted and wired
- 8. Clarification to Note #12: Speed controller shall be factory mounted and wired
- <u>FAN SCHEDULE (HIGH SCHOOL ALTERNATE)</u>:
 - 1. Clarification to Note #1: Speed controller shall be factory mounted and wired
- FAN SCHEDULE (MIDDLE SCHOOL):
 - 1. Clarification to Note #2: Speed controller shall be factory mounted and wired
- MAKE-UP AIR UNIT SCHEDULE (HIGH SCHOOL)

1. REVISE Note #1 to read:

"Unit shall be provided with the following features and accessories: inlet weather hood with birdscreen and temp sensor, filter section with 2" aluminum filters, motor operated inlet damper, remote panel with light/fan/heater/temp adjustment, unit control center with disconnect switch/transformer/terminal strip, dirty filter switch, BMS interface, insulated roof curb, and insulated duct curb (MAU-B1/B2)."

2. REVISE Note #6 to read:

"Unit shall be provided with the following features and accessories: inlet weather hood with birdscreen and temp sensor, filter section with 2" aluminum filters, motor operated inlet damper, remote panel with light/fan/heater/temp adjustment, unit control center with disconnect switch/transformer/terminal strip, dirty filter switch, BMS interface, insulated roof curb."

3. REVISE Note #10 to read:

"Interlock units and fans with factory mounted hood controls for a complete control system. Coordinate with the ATC sequence of operation in section 230900."

h. Drawing M-603, SCHEDULES – MECHANICAL

– <u>FAN COIL UNIT SCHEDULE (HIGH SCHOOL 1ST FLOOR)</u>:

- 1. REVISE performance data for FCU-E1.1. Refer to attached revised Drawing M-603.
- 2. REVISE performance data for FCU-E1.7. Refer to attached revised Drawing M-603.

i. Drawing M-605, SCHEDULES – MECHANICAL

- SOUND ATTENUATING UNIT SCHEDULE (HIGH SCHOOL)
 - REVISE Note #4 to read:
 "Attenuator shall be provided with mastic filled seams (outdoor
 - installation)."
- SOUND ATTENUATING UNIT SCHEDULE (DD-10 ALTERNATE)
 - 1. REVISE Note #5 to read:

"Attenuator shall be provided with mastic filled seams (outdoor installation)."

- SOUND ATTENUATING UNIT SCHEDULE (MIDDLE SCHOOL)
 - REVISE Note #4 to read: *"Attenuator shall be provided with mastic filled seams (outdoor installation)."*

5) <u>Electrical Drawings</u>

a. Drawing E-151, SITE PLAN ELECTRICAL

- CHANGE the number of conduits from 2 to 4. Refer to attached revised Drawing E-151.
- ADD notes to indicate work for Bid Pac E. Refer to attached revised Drawing E-151.
- b. Drawing E-600, SCHEDULES ELECTRICAL
 - CHANGE legend descriptions for cord reel and poke through. Refer to attached revised Drawing E-600.

ATTACHMENTS

- SHEET A-001 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
- SHEET A-002 EXTERIOR BUILDING ASSEMBLIES
- SHEET A-101 OVERALL FIRST FLOOR PLAN
- SHEET A-102 OVERALL SECOND FLOOR PLAN
- SHEET A-133 ROOF PLAN AREAS C, D & E
- SHEET A-491 STAIR A ENLARGED STAIR PLANS & SECTIONS
- SHEET A-494 STAIR F ENLARGED STAIR PLANS & SECTIONS
- SHEET A-497 PAC LOBBY STAIR & RAMP PLANS & SECTIONS
- SHEET A-601 DOOR SCHEDULE
- SHEET A-602 DOOR SCHEDULE
- SHEET A-603 DOOR AND FRAME ELEVATIONS
- SHEET A-610 GLAZING ELEVATIONS
- SHEET A-611 CURTAIN WALL ELEVATIONS
- SHEET A-612 CURTAIN WALL ELEVATIONS
- SHEET A-661 TYPICAL GLAZING HEAD, SILL AND JAMB DETAILS
- SHEET A-662 TYPICAL GLAZING HEAD, SILL AND JAMB DETAILS
- SHEET A-663 TYPICAL GLAZING HEAD, SILL AND JAMB DETAILS
- SHEET P-103 BELOW SLAB PLAN PLUMBING AREA 'C'
- SHEET P-104 BELOW SLAB PLAN PLUMBING AREA 'D'
- SHEET P-105 BELOW SLAB PLAN PLUMBING AREA 'E'
- SHEET P-114 FIRST FLOOR PLAN PLUMBING AREA 'D'
- SHEET P-115 FIRST FLOOR PLAN PLUMBING AREA 'E'
- SHEET M-118 FIRST FLOOR PLAN MECHANICAL HVAC AREA 'H'
- SHEET M-118A FIRST FLOOR PLAN MECHANICAL HVAC AREA 'H'-ALTERNATE
- SHEET M-127 SECOND FLOOR PLAN MECHANICAL HVAC AREA 'H'
- SHEET M-127A SECOND FLOOR PLAN MECHANICAL HVAC AREA 'H'-ALTERNATE

- SHEET M-603 MECHANICAL SCHEDULES
- SHEET MP-118A FIRST FLOOR MECHANICAL/PLUMBING PIPING AREA 'H' ALTERNATE
- SHEET E-151 ELECTRICAL SITE PLAN
- SHEET E-600 SCHEDULES ELECTRICAL

END OF ADDENDUM NO. 2

All other terms and conditions remain the same.