

PUBLIC BUILDING COMMISSION OF CHICAGO

**ADDENDUM NO. 1 TO PROJECT NO. 05620
For
Chicago Vocational Career Academy High School – Phase I Renovation**

DATE: January 29, 2014

NOTICE OF CHANGES IN CONTRACT DOCUMENTS

The following changes are hereby made in the Contract Documents. This Addendum forms part of the Contract Documents for the above named project and contains the following:

Changes to Book 1: Project Information and Proposal and Execution Documents

1. Change 1: The bid opening date and time is hereby changed from Tuesday, February 4, 2014 at 11:00am to Friday, February 7, 2014 at 11:00am. The apparent low bidder will be required to attend a Pre-Award Meeting Monday, February 10, 2014 at 10:00am at the PBC.
2. Change 2: Strike the Project Allowance Unit Price Schedule and accompanied notes and replace with the revised Project Allowance Unit Price Schedule (attached hereto).
3. Change 3: Revised Unit Price Schedule: (attached hereto)
 - a. Deleting Unit Price #7-#13 has been deleted and are not being used.
 - b. Notes 2 and 4 have been revised.
 - c. Note #5 has been added

Changes to Book 2: None

Changes to Book 3: Drawings and Specifications

A. ATTACHMENTS

1. This Addendum includes responses to RFIs received by prequalified bidders. RFI responses are attached at the end of this addendum document.
2. This Addendum includes the following attached Documents and Specification Sections:
 - a. Section 23 05 93 Testing, Adjusting, and Balancing for HVAC, dated 01-28-2014, reissued.
 - b. Section 23 09 26 Building Automation System-Sequence of Operation, dated 01-28-2014, reissued.
 - c. Section 23 73 13 Modular Indoor Central-Station Air-Handling Units, dated 01-28-2014, reissued.
 - d. Section 23 81 19 Self-Contained Air-Conditioners, dated 01-28-2014, reissued.
 - e. Section 26 05 33 Raceways and Boxes for Electrical Systems, dated 01-28-2014, reissued.
 - f. Section 26 12 00 Medium-Voltage Transformers, dated 01-28-2014, reissued.

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3. This Addendum includes the following attached Sheets:
 - a. General Sheets G0.1-VI and G0.1-VII, dated 01-28-2014, (reissued).
 - b. Environmental Sheets ASB1.0J, ASB1.1C, ASB1.1E, ASB1.1G, ASB1.1H, LBP1.0B, LBP1.0C, LBP1.0D, LBP1.0E, LBP1.0G, LBP1.0J, LBP1.2E, LBP1.3E, dated 01-28-2014 (reissued).
 - c. Architectural Sheets AD1.0D, AD1.1C, AD1.1G, AD1.1H, AD1.1J, AD1.2H, A1.0B, A1.0C, A1.0D, A1.0E, A1.0G, A1.0J, A1.1G, A1.2A, A1.2K, A1.2L, A3.1G, A4.2, A4.3, A4.4, A4.5, A4.6, A4.7, A4.8, A4.9, A4.10, A4.11, A5.14, A5.15, A5.16, A5.17, A5.18, A5.19, A5.20, A5.21, A5.22, A5.23, A5.24, A5.25, A5.26, A5.27, A5.28, A5.29, A6.7, A6.9, A9.1, A9.2, A10.1, A12.1, dated 01-28-2014, (reissued).
 - d. Architectural Sheets AD1.2C&D, AD1.3C, A1.3C, A12.2, dated 01-28-2014, (new).
 - e. Structural Sheets S1.1B, S1.1D, S1.1E, S1.1G, S1.2A, S1.2D, S1.2F, S1.2G, S1.2H, S1.3B, S1.3D, S1.3H, S1.3K, S1.3L, S1.4J, S3.1, S4.6, S4.7, S5.5 dated 01-28-2014 (reissued).
 - f. Mechanical Sheets M0.1, M0.2, M1.0A, M1.0B, M1.0C, M1.0E, M1.0G, M1.0K, M1.1A, M1.1F, M1.1G, M1.1H, M1.1K, M1.1L, M1.2A, M1.2D, M1.2J, M1.2K, M1.2L, M1.4E, M1.4G, M1.4J, M1.5D, M1.5E, M1.5F, M1.5G, M1.5H, M1.5J, M1.5K, M2.1J, M2.1K, M2.1L, M2.2D, M2.2K, M2.3C, M2.3J, M5.2, M6.2, M6.11, M6.14, M6.16, M7.3, M7.4, M7.5, M8.3, M8.4, M8.6, M8.14, M8.16, M8.18, MD1.0C, MD1.0K, MD1.1K, MD1.2J, dated 01-28-2014, (reissued).
 - g. Electrical Sheets E0.1, E0.2, E0.5, E1.1A, E1.1D, E1.1F, E1.1H, E1.1K, E1.1L, E1.2A, E1.2J, E1.2K, E1.2L, E2.0A, E2.0C, E2.0D, E2.0E, E2.0F, E2.0G, E2.0H, E2.0J, E2.0K, E2.1A, E2.1G, E2.1L, E2.2D, E2.2L, E4.1, E4.5, E4.6, E4.8, E4.9, E4.10, E4.12, E5.9, E6.1, E6.2, E6.3, E6.5, E6.6, E6.9, E6.10, ED1.0A, ED1.1A, ED1.1G, ED1.2J, dated 01-28-2014, (reissued).
 - h. Plumbing Sheets P0.0, P0.1A, P0.1B, P0.1C, P0.1D, P0.1E, P0.1F, P0.1G, P0.1H, P0.1J, P0.1K, P0.1L, P0.2A, P0.2B, P0.2C, P0.2D, P0.2E, P0.2F, P0.2G, P0.2H, P0.2J, P0.2K, P0.2L, P3.1, P3.2, P3.3, P3.4, P3.13, P3.14, P4.5, P4.7, dated 01-28-14 (reissued).

B. REVISIONS TO BOOK 3, DIVISIONS 02 - 49 SPECIFICATION SECTIONS

1. Specification Section 000110 – TABLE OF CONTENTS, (not reissued).
 - a. DELETE Section 329311 "Plantings".
2. Specification Section 011411 – CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN, (not reissued)
 - a. Modify Diagram attachment to spec as follows:
 1. Change dates in legend for Areas 1B, 2B and 3 to be "03/2014 – 12/2014" on all pages.
3. Specification Section 096516 – RESILIENT SHEET FLOORING, (not reissued).
 - a. Change 2.1.A.1.c to say "Gerflor Mipolam: Troplan 100."
4. Specification Section 092116 – GYPSUM BOARD ASSEMBLIES, (not reissued).
 - a. Delete Paragraph 2.2.D, and substitute with the following:

"D. Abuse/Impact-Resistant Board: Moisture- and mold-resistant gypsum board complying with ASTM C 1629. Use where indicated, type X where shown and required by Chicago Building Code;

1. Manufacturers:

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- a. Georgia Pacific; DensArmor Plus Impact-Resistant Gypsum Panel.
 - b. National Gypsum; Hi-Impact XP
 - c. USG; Sheetrock Mold Tough VHI"
5. Specification Section 260533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS (reissued)
 - a. Formatting changes
 - b. Art. 3.2.L added to specify sound proofing at outlets installed at opposite sides of the wall.
 - c. Art. 2.6.C.2 spec section reference revised to section 26 05 05
6. Specification Section 261200 - MEDIUM VOLTAGE TRANSFORMERS (reissued)
 - a. Art. 2.1.B revised to clarify manufacturer of existing medium voltage transformer and "Engineer approved equal" is added to the list of manufacturers
7. Specification Section 230926 - BUILDING AUTOMATION SYSTEM-SEQUENCE OF OPERATION (reissued)
 - a. Art. 3.7.G.5 changed from "Zone Damper Control" to "Zone Damper Controls and Electric Reheat Control"
 - b. Add section 3) to art. 3.7.G.5.a that states: When the space requires heating and the zone damper is in full hot deck and the dual temperature system is not in HW mode and the space cannot maintain setpoint energize the electric heat and modulate the SCR modulating control to maintain space temperature setpoint."
 - c. Three (3) sections are deleted in entirety and replaced with four (4) new sections. The deleted sections are: 3.16 "Condensing Variable Primary HW Heating Systems", 3.17 "Chilled Water System – Air Cooled Chiller, Primary Only CV Pumps", and 3.18 "Dual Temp System". The new sections are 3.16 "Dual Temperature Water System", 3.17 "Hot Water System", 3.18 "Chilled Water System", and 3.19 "Condenser Water System". Remaining five (5) sections were shifted in the numbering system: 3.19 "Exhaust Fans" changed to 3.20, 3.20 "Sump Pumps" changed to 3.21, etc.
8. Specification Section 230593 - TESTING ADJUSTING AND BALANCING FOR HVAC (reissued)
 - a. Art. 1.1.A.1 – list of air systems revised to add additional systems and delete systems not in scope.
 - b. Art. 1.1.A.2 – list of hydronic piping systems revised to add additional systems and delete systems not in scope.
 - c. Art 1.1.A.7 added to read: "Working directly with the BAS contractor and providing fan speed setpoints, pump speed setpoints, damper position setpoints, and pressure setpoints under specific conditions to be used by the BAS contractor in programming the temperature control system to achieve the sequence of operation as defined in the specification section 230926 and on the temperature controls drawings. See specification section 230626 and temperature controls drawings for additional requirements."
 - d. Art. 1.3 Submittals revised to include the following statement "BAS Coordination TAB Report: Provide a report detailing the fan speed setpoints, pump speed setpoints, damper position setpoints, and pressure setpoints that were given to the BAS contractor during the coordination when these setpoints were determined. Include all pertinent conditions of the system when these setpoints were determined. For example, when a hydronic pressure setpoint is determined, which pumps were on/off, what were the positions of isolation valves and control valves, etc."
9. Specification Section 230700 - HVAC INSULATION, (not reissued)
 - a. Section 3.17.B.Note 8: "Provide flexible elastomeric polyisocyanurate board insulation for outdoor ductwork.

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10. Specification Section 237313 - MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS, (reissued)
 - a. See spec for modifications
11. Specification Section 238119 - SELF-CONTAINED AIR CONDITIONERS, (reissued)
 - a. See spec for modifications
12. Specification Section 231513 - COMPRESSED-AIR PIPING, (not reissued)
 - a. Add section 2.7 (QUICK COUPLINGS) and 2.8(HOSE ASSEMBLIES) as indicated below:

"2.7 QUICK COUPLINGS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Aeroquip Corporation.
 2. Parker Hannifin Corp.
 3. Pressure Connections Corporation.
 4. Schrader-Bridgeport/Standard Thomson.
 5. Swagelok.
- B. General Requirements for Quick Couplings: Assembly with locking-mechanism feature for quick connection and disconnection of compressed-air hose.
- C. Automatic-Shutoff Quick Couplings: Straight-through brass body with O-ring or gasket seal and stainless-steel or nickel-plated-steel operating parts.
 1. Socket End: With one-way valve and threaded inlet for connection to piping or threaded hose fitting.
 2. Plug End: Straight-through type with barbed outlet for attaching hose.
- D. Valveless Quick Couplings: Straight-through brass body with stainless-steel or nickel-plated-steel operating parts.
 1. Socket End: With O-ring or gasket seal, without valve, and with barbed inlet for attaching hose.
 2. Plug End: With barbed outlet for attaching hose.

2.8 HOSE ASSEMBLIES

- A. Description: Compatible hose, clamps, couplings, and splicers suitable for compressed-air service, of nominal diameter indicated, and rated for 300-psig minimum working pressure, unless otherwise indicated.
 1. Hose: Reinforced double-wire-braid, CR-covered hose for compressed-air service.
 2. Hose Clamps: Stainless-steel clamps or bands."

C. REVISIONS TO DRAWING SHEETS

1. Sheet G0.1-VI – SHEET INDEX, (reissued)
 - a. Modifications to drawing index per attached sheet.
2. Sheet G0.1-VII – SHEET INDEX, (reissued)
 - a. Modifications to drawings index per attached sheet.
3. Sheet ASB1.0F– ASBESTOS ABATEMENT FLOOR PLAN, BASEMENT LEVEL, AREA F (not reissued).
 - a. Gross removal of all asbestos-containing cooler insulation from existing walk-in coolers will be performed in this project. This work will be performed regardless of whether this area is impacted by other work under this contract.

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4. Asbestos Abatement Sheets (not reissued).
 - a. Add the following notes to all ASB sheets:
 - A1: The scope of work includes necessary selective demolition to expose thermal system insulation or wiring requiring asbestos abatement. Contractor will coordinate with other trades for patching of any demolished areas.
 - A2: Multiple layers of floor tile, mastic and underlayment may be present. When floor tile and mastic removal is required, contractor is required to remove all layers as necessary.
 - A3: At locations of radiator removal, the scope calls for the removal of up to two floor tiles and mastic, however, the contractor is responsible for removal of as much flooring as is required to complete the scope of renovation work.
 - b. Add the following note to all ASB sheets for basement levels:
 - A4: Stored chemicals in abatement areas are to be removed and disposed of by contractor in accordance with specification section 02 86 13 Hazardous and Universal Waste Management. Existing items will not be removed/disposed of by CPS. Refer to Environmental Scope Sheets and previous reports for list of chemicals, however, the contents may have changed since these inventories and may change prior to work. Contractor will be responsible for all chemicals present in the areas at the time the work is conducted.
 - c. Add the following note to all ASB sheets for first, second and third levels:
 - A5: Floor tile and mastic (including multiple layers) in the corridors on first, second and third levels is asbestos-containing.
5. Lead-Based Paint Mitigation Sheets (not reissued).
 - a. Add the following note to all LBP sheets:
 - L1: All work that impacts a LBP component will be performed by IDPH-licensed lead abatement personnel in accordance with specification section 02 83 19.13. This includes intact component removal and is not predicated on whether the LBP is disturbed during the process.
 - b. Add the following note to all LBP sheets for basement levels:
 - L2: Stored chemicals in abatement areas are to be removed and disposed of by contractor in accordance with specification section 02 86 13 Hazardous and Universal Waste Management. Existing items will not be removed/disposed of by CPS. Refer to Environmental Scope Sheets and previous reports for list of chemicals, however, the contents may have changed since these inventories and may change prior to work. Contractor will be responsible for all chemicals present in the areas at the time the work is conducted.

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6. Building Abatement Sheets (not reissued).

a. Add the following note to all BA sheets for basement levels:

BA1: Stored chemicals in abatement areas are to be removed and disposed of by contractor in accordance with specification section 02 86 13 Hazardous and Universal Waste Management. Existing items will not be removed/disposed of by CPS. Refer to Environmental Scope Sheets and previous reports for list of chemicals, however, the contents may have changed since these inventories and may change prior to work. Contractor will be responsible for all chemicals present in the areas at the time the work is conducted.

7. Environmental Scope Sheets (not reissued).

Page 6 "Cooler wall insulation (Area F)" – Revise Response Action to read: "ACM removal and disposal" and revise Comment to read: "Removal to be performed in accordance with specification section 02 82 14".

Page 7 Basement, Other – Add "Stored chemicals" to the list with the same Response Action and Comments as other items.

Page 24 "Corridors on First, Second and Third Levels" list the component as "Asbestos containing insulation floor tile and mastic (2 layers of tiles)" - delete the word "insulation".

The following rooms also have asbestos-containing floor tile and/or mastic: 009A, 010A, 012A, 023A, 024A, 132, 135A, 145A. ACM removal and disposal should be performed in accordance with specification section 02 82 14 as required to perform the scope of work in contract documents.

The following rooms also have asbestos-containing black countertops: 010, 010A, 011, 012A, 013, 020, 024B. ACM removal and disposal should be performed in accordance with specification section 02 82 14 as required to perform the scope of work in contract documents.

Lead-based paint is present on mechanical equipment (air handling units, fan housing, etc.) on the basement level. LBP mitigation and/or abatement and/or remove/dispose as LBP waste should be performed in accordance with specification section 02 83 19.13 as required to perform the scope of work in contract documents.

8. Sheet AD1.0B TO AD1.3C – DEMOLITION FLOOR PLANS (not reissued).

a. Drawing Demolition Plan Key Note 19: Delete description and replace with, "REMOVE ALL DEBRIS AND POWERWASH WALLS, LOUVERS, CONCRETE FLOORS, AND EXPOSED STRUCTURES".

9. Sheet AD1.2L – DEMOLITION FLOOR PLAN, SECOND LEVEL – AREA L (not reissued).

a. Drawing GYMNASIUM #203: Add key note 4 to plan north diagonal hatch region

10. Sheet A1.0B TO A1.3C - FLOOR PLANS (not reissued).

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- a. Drawing Floor plan Key Note 13: Delete description and replace with, "PROVIDE FLOOR FINISH TRANSITION STRIP. SEE SCHEDULE FOR FLOOR FINISH. SEE TRANSITION DETAIL 11/A12.2".
11. Sheet A1.1E – FLOOR PLAN, FIRST LEVEL – AREA E (not reissued).
 - a. Drawing TOILET 132C: Delete wall tag S40, replace with wall tag S42 (see Mechanical for access panel)
12. Sheet A1.1H – FLOOR PLAN, FIRST LEVEL – AREA H (not reissued).
 - a. Drawing ELECTRICAL ROOM 025H: Delete section detail callout 1/A10.1 and replace with section detail callout 44/A10.1
 - b. Drawing ELECTRICAL ROOM 025H: Delete TYP. FIN. FL. 94'-0" and replace with TYP. FIN. FL. 93'-6"
13. Sheet A3.1J – REFLECTED CEILING PLAN, FIRST LEVEL – AREA J
 - a. Delete sheet.
14. Sheet A3.2C – REFLECTED CEILING PLAN, SECOND LEVEL – AREA C
 - a. Delete sheet.
15. A4.1 – OVERALL ROOF PLAN, (not reissued)
 - a. Revise General Roofing Note No. 13 to say: "Temporary Roof A&B: A: Base-Ply (2 Ply Sheets):
....
16. A4.2 THROUGH A4.8 – PARTIAL ROOF PLAN(S), (reissued)
 - a. Notes for existing roof removal have been updated. Lead flashing at roof drains changed to a 36"x36". Note regarding vapor/temporary roof system changed to match Specification 075113.13
17. A4.9 THROUGH A4.11 – ROOF DETAILS, (reissued)
 - a. Notes for vapor / temporary roofing system changed on details to match Specification 075113.13. Note regarding 96"x96" lead flashing at roof drain changed to 36"x36". Note regarding replacement of metal siding was removed.
18. A4.12 THROUGH A4.13 - MANSARD ROOFS (not reissued)
 - a. Revise Demolition Note #5 to read: "See elevation for scope of work."
19. A5.2 THROUGH A5.13 – EXTERIOR ELEVATIONS (not reissued)
 - a. Revise note 4.06 to read: "Remove one (1) outer wythe of brick, back up, flashing and limestone masonry to expose structural steel. Salvage limestone trim for reinstallation. Rebuild masonry. Provide new brick & reinstall salvaged limestone to match original. Coordinate with parapet rebuilding and steel scope of work."
20. A5.14 THROUGH A5.28 – PARAPET DETAILS (reissued)
 - a. Corresponding masonry hatch graphic added to General Parapet/Masonry Notes #1, #2 and #3.
21. A5.14 – PARAPET DETAILS (reissued)
 - a. Details 1/A5.14 & 4/A5.14: Revise note to read: "Remove and replace 100% of wood blocking/sheathing to match original."

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22. A5.15 – PARAPET DETAILS (reissued)
 - a. Detail 4/A5.15: Revise note to read: “Remove and replace 100% of wood blocking/sheathing to match original.”
23. A5.16 – PARAPET DETAILS (reissued)
 - a. Details 1/A5.16, 2/A5.16, 5/A5.16: Revise note to read: “Remove and replace 100% of wood blocking/sheathing to match original.”
24. A5.17 – PARAPET DETAILS (reissued)
 - a. Details 1/A5.17, 4/A5.17, 5/A5.17: Revise note to read: “Remove and replace 100% of wood blocking/sheathing to match original.”
25. A5.20 – PARAPET DETAILS (reissued)
 - a. Detail 2/A5.20: Extend backup brick graphic down to bearing steel.
26. A5.21 – PARAPET DETAILS (reissued)
 - a. Detail 6/A5.21: Revise note to read: “Remove and replace 100% of wood blocking/sheathing to match original.”
 - b. Drawings 1/A5.21, 2/A5.21, 4/A5.21, 7/A5.21: General Parapet/Masonry Note #3 added.
27. A5.23- PARAPET DETAILS (reissued)
 - a. Details 2/A5.23, 3/A5.23: General Parapet/Masonry Note #3 added.
28. A5.24 – PARAPET DETAILS (reissued)
 - a. Details 1/A5.24, 3/A5.24, 4/A5.24: General Parapet/Masonry Note #3 added.
29. A5.25 – PARAPET DETAILS (reissued)
 - a. Detail 5/A5/25: General Parapet/Masonry Note #3 added.
30. A5.27 – PARAPET DETAILS (reissued)
 - a. Details 5/A5.27, 6/A5.27: General Parapet/Masonry Note #3 added.
31. A5.28 – PARAPET DETAILS (reissued)
 - a. Details 4/A5.28, 6/A5.28: General Parapet/Masonry Note #3 added.
32. A5.29 – MASONRY DETAILS (reissued)
 - a. Add detail 16/A5.29 “Stone Tie” to set.
33. A6.7 – STAIR DETAILS (reissued)
 - a. Elevation tag added to details 2/A6.7 & 4/A6.7.
34. A6.9 – STAIR DETAILS (reissued)
 - a. Elevation tag added to details 2/A6.9 & 4/A6.9.
35. A8.0 – DOOR SCHEDULE (not reissued)
 - a. Door Schedule
 1. Add Note 8 and omit Note 9 at Door No. 1A, 1B, 1C, 5A, 5B, 5C.
 2. Add Note 12 at Door No. 12, 13, 14, 18, 20, 23, 24, 25, 26, 32, 35, 36, 37, 38, 39
 - b. Add Note 12 to Door Schedule Notes to read: “12. Demolish 100% of existing door and frame.”
36. S1.1D – FRAMING PLAN, FIRST LEVEL – AREA D, (reissued)
 - a. Added mechanical wall opening

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37. S1.1E – FRAMING PLAN, FIRST LEVEL – AREA E, (reissued)
 - a. Revised mechanical wall opening and floor openings.
38. S1.1G – FRAMING PLAN, FIRST LEVEL – AREA G, (reissued)
 - a. Revised mechanical floor opening
39. S1.2A – FRAMING PLAN, SECOND LEVEL – AREA A, (reissued)
 - a. Revised section cut near gridline DV.
 - b. Removed section cut near gridline DDB.
40. S1.2D – FRAMING PLAN, SECOND LEVEL – AREA D, (reissued)
 - a. Revised section cut near gridline B31.
41. S1.2F – FRAMING PLAN, SECOND LEVEL – AREA F, (reissued)
 - a. Removed section cuts near gridlines C41 and C43.
 - b. Revised section cuts near gridlines C42 and C45.
 - c. Added section cut near gridline C49.
42. S1.2G – FRAMING PLAN, SECOND LEVEL – AREA G, (reissued)
 - a. Revised mechanical roof opening
43. S1.2H – FRAMING PLAN, SECOND LEVEL – AREA H, (reissued)
 - a. Revised extents of floor grating infill and details
44. S1.3B – FRAMING PLAN, THIRD LEVEL – AREA B, (reissued)
 - a. Added section cut near gridline D5.
 - b. Revised section cut near gridline D24.
45. S1.3D – FRAMING PLAN, THIRD LEVEL – AREA D, (reissued)
 - a. Revised mechanical floor opening
46. S1.3H – FRAMING PLAN, THIRD LEVEL – AREA H, (reissued)
 - a. Revised roof repairs.
 - b. Revised cooling tower platform information and notes.
 - c. Revised floor grating infill information and details.
47. S1.3K – FRAMING PLAN, THIRD LEVEL – AREA K, (reissued)
 - a. Revised section cut near gridline AD.
48. S1.3L – FRAMING PLAN, THIRD LEVEL – AREA L, (reissued)
 - a. Mechanical roof opening deleted.
49. S1.4J – FRAMING PLAN, FOURTH LEVEL – AREA J, (reissued)
 - a. Mechanical equipment deleted.
50. S3.1 – CONCRETE FOUNDATION DETAILS, (reissued)
 - a. Revised notes on concrete details and schedule.
51. S3.4 – CONCRETE FLOOR DETAILS, (not reissued)
 - a. Revise note on detail 1/S3.4 and 2/S3.4 to say, "CONTRACTOR TO PROVIDE AND INSTALL ANCHOR HOIST RODS PER MANUFACTURER'S REQUIREMENTS FOR EXISTING ENGINE HOIST POST ATTACHMENT TO EXISTING STEEL BRACKET. CONTRACTOR SHALL LOCATE

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ENGINE HOIST POSTS SO THAT CORING THROUGH EXISTING CONCRETE JOISTS IS AVOIDED."

52. S4.1 – CLAY TILE FLOOR DETAILS, (not reissued)
 - a. Add note #2 below detail 2/S4.1 to say, "CONTRACTOR SHALL VERIFY IN FIELD THAT STEEL TIE RODS ARE PRESENT AND ATTACHED TO EXISTING STEEL BEAMS WITHIN CLAY TILE FLAT ARCH SLABS AT LOCATIONS ADJACENT TO ENTIRE BAYS OF CLAY TILE THAT ARE BEING REMOVED. IF STEEL TIE RODS ARE NOT PRESENT IN BAYS ADJACENT TO THE LOCATION OF THE NEW OPENINGS, CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD BEFORE REMOVING PORTION OF CLAY TILE FLAT ARCH SLAB."
53. S4.3 – CLAY TILE ROOF DETAILS, (not reissued)
 - a. Add note #2 below detail 3/S4.3 to say, "CONTRACTOR SHALL VERIFY IN FIELD THAT STEEL TIE RODS ARE PRESENT AND ATTACHED TO EXISTING STEEL BEAMS WITHIN CLAY TILE FLAT ARCH SLABS AT LOCATIONS ADJACENT TO ENTIRE BAYS OF CLAY TILE THAT ARE BEING REMOVED. IF STEEL TIE RODS ARE NOT PRESENT IN BAYS ADJACENT TO THE LOCATION OF THE NEW OPENINGS, CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD BEFORE REMOVING PORTION OF CLAY TILE FLAT ARCH SLAB."
54. S4.5 – PRECAST ROOF DETAILS, (not reissued)
 - a. Revise note on detail 4/S4.5 to say, "CONT. 3/8"x2"x5" BENT PLATE"
55. S4.6 – STEEL DETAILS
 - a. Revised notes on steel details.
56. S4.7 – STEEL DETAILS
 - a. Revised notes on steel details.
57. S5.1 – EXTERIOR WALL CONSTRUCTION DETAILS, (not reissued)
 - a. Revise Note 2 for details 1 through 15 to say, "REFERENCE THE EXTERIOR FAÇADE RESTORATION DRAWINGS AND SPECIFICATIONS FOR AUXILIARY STEEL INFORMATION AND MODIFICATIONS. INFORMATION FOR EXISTING PRIMARY STEEL MEMBERS IS INCLUDED ON THE PLANS SHEETS AND SECTION."
58. S5.2 – EXTERIOR WALL CONSTRUCTION DETAILS, (not reissued)
 - a. Revise Note 2 for details 1 through 10 to say, "REFERENCE THE EXTERIOR FAÇADE RESTORATION DRAWINGS AND SPECIFICATIONS FOR AUXILIARY STEEL INFORMATION AND MODIFICATIONS. INFORMATION FOR EXISTING PRIMARY STEEL MEMBERS IS INCLUDED ON THE PLANS SHEETS AND SECTION."
59. S5.3 – EXTERIOR WALL CONSTRUCTION DETAILS, (not reissued)
 - a. Revise note #3 on 1/S5.3 to say, "REFERENCE THE EXTERIOR ARCHITECTURAL FAÇADE RESTORATION DRAWINGS AND SPECIFICATIONS FOR ALL STEEL CLEANING, PRIMING, AND PAINTING REQUIREMENTS. REFERENCE DETAILS 9 AND 10 ON A5.29 FOR MASONRY INFORMATION."
 - b. Revise note #4 on 2/S5.3 to say, "REFERENCE THE EXTERIOR ARCHITECTURAL FAÇADE RESTORATION DRAWINGS AND SPECIFICATIONS FOR ALL STEEL CLEANING, PRIMING, AND PAINTING REQUIREMENTS. REFERENCE DETAILS 9 AND 10 ON A5.29 FOR MASONRY INFORMATION."
 - c. Revise note #5 on 3/S5.3 to say, "REFERENCE THE EXTERIOR ARCHITECTURAL FAÇADE RESTORATION DRAWINGS AND SPECIFICATIONS FOR ALL STEEL CLEANING, PRIMING,

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- AND PAINTING REQUIREMENTS. REFERENCE DETAILS 9 AND 10 ON A5.29 FOR MASONRY INFORMATION."
- d. Revise note #6 on 4/S5.3 to say, "REFERENCE THE EXTERIOR ARCHITECTURAL FAÇADE RESTORATION DRAWINGS AND SPECIFICATIONS FOR ALL STEEL CLEANING, PRIMING, AND PAINTING REQUIREMENTS. REFERENCE DETAILS 9 AND 10 ON A5.29 FOR MASONRY INFORMATION."
 - e. Remove note #3 below 8/S5.3.
60. S5.4 – STEEL DETAILS
- a. Revise note #1 on 4/S5.4 to say, "EXISTING GUSSET PLATES ARE TO BE REMOVED AND REPLACED WITH NEW PLATE(S) TO MATCH EXISTING SHAPE AND DIMENSIONS AS NECESSARY."
 - b. Revise note #2 for 4/S5.4 to say, "EXISTING RIVETS ARE TO BE REPLACED WITH NEW ASTM A325-SC BOLTS TO MATCH EXISTING RIVET DIAMETER AS NECESSARY."
 - c. Revise note #1 for 5/S5.4 to say, "EXISTING GUSSET PLATES ARE TO BE REMOVED AND REPLACED WITH NEW PLATE(S) TO MATCH EXISTING SHAPE AND DIMENSIONS AS NECESSARY."
 - d. Revise note #2 for 5/S5.4 to say, "EXISTING RIVETS ARE TO BE REPLACED WITH NEW ASTM A325-SC BOLTS TO MATCH EXISTING RIVET DIAMETER AS NECESSARY."
61. S5.5 – EXTERIOR STAIR FOUNDATIONS
- a. Revised detail 3A/S5.5
62. M0.1 – MECHANICAL SYMBOLS AND ABBREVIATIONS
- a. Modified "CA" abbreviation.
 - b. Added "CA" pipe system.
 - c. Added identification symbol.
63. M0.2 – MECHANICAL NOTES
- a. Modified demolition note #1, general note #1, # 66, #76, and #77.
 - b. Added general note #78.
64. MD1.0C – Mechanical Demolition Ventilation Plan, Lower Level – Area C
- a. Demo scope for existing pool heat exchanger and condensate pump is added.
65. MD1.0K – MECHANICAL DEMOLITION VENTILATION PLAN, LOWER LEVEL – AREA K
- a. Removed "NIC" hatch from "Switchboard Room B114".
66. MD1.1K – MECHANICAL DEMOLITION PLAN, FIRST LEVEL – AREA K
- a. Remove existing supply grilles in Classroom 112 and Classroom 114.
67. M1.0A – MECHANICAL VENTILATION PLAN, LOWER LEVEL – AREA A
- a. Add EF-D for vault
68. M1.0B – MECHANICAL VENTILATION PLAN, LOWER LEVEL – AREA B
- a. Add transfer grille for EF-D Vault fan.
69. M1.0C – MECHANICAL VENTILATION PLAN, LOWER LEVEL – AREA C
- a. Add electric duct heaters for pool and locker room.

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70. M1.0E – MECHANICAL VENTILATION PLAN, LOWER LEVEL – AREA E
 - a. Remove note for clarification.
71. M1.0G – MECHANICAL VENTILATION PLAN, LOWER LEVEL – AREA G
 - a. Remove note for clarification.
72. M1.0K – MECHANICAL VENTILATION PLAN, LOWER LEVEL – AREA K
 - a. Remove NIC hatch for clarification.
73. M1.1A – MECHANICAL VENTILATION PLAN, FIRST LEVEL – AREA A
 - a. Adjust Ductwork and diffusers.
74. M1.1F – MECHANICAL VENTILATION PLAN, FIRST LEVEL – AREA F
 - a. Adjusted exhaust ductwork and accessories associated with EF-016.
75. M1.1G – MECHANICAL VENTILATION PLAN, FIRST LEVEL – AREA G
 - a. Modified plenum door note in Toilet 132C.
 - b. Provided new transfer opening with fire damper between Office 128 and Office 128A.
76. M1.1H – MECHANICAL VENTILATION PLAN, FIRST LEVEL – AREA H
 - a. Volume dampers shown for supply ducts to Classroom 008 and Teachers' Lounge 008A.
 - b. Duct size shown for exhaust duct through Lockers 008B.
77. M1.1K – MECHANICAL VENTILATION PLAN, FIRST LEVEL – AREA K
 - a. Modified supply to Classroom 112 and Classroom 114.
78. Volume dampers shown for Culinary Lab 113.
 - a. Modified supply to Art 002.
79. M1.1L – MECHANICAL VENTILATION PLAN, FIRST LEVEL – AREA L
 - a. Included elevation for UH-4 serving Classrooms 106B and Classroom 106C.
 - b. Remove fin tube and added unit heater (UH-2) to Office 100.
 - c. Included duct size for existing return ducts in Cosmetology Salon 104.
 - d. Modified ductwork distribution in Classroom 105 and Classroom 105A.
80. M1.2A – MECHANICAL VENTILATION PLAN, SECOND LEVEL – AREA A
 - a. Clarified existing supply air duct risers.
81. M1.2D – MECHANICAL VENTILATION PLAN, SECOND LEVEL – AREA D
 - a. Added "TO 6" AFF" to 20x20 duct drop (PE SUPPORT 246B).
 - b. Remove fin tube and added UH-1 to IT 240.
82. M1.2J – MECHANICAL VENTILATION PLAN, SECOND LEVEL – AREA J
 - a. Adjusted supply/return diffusers/grilles to ceiling grid.
83. M1.2K – MECHANICAL VENTILATION PLAN, SECOND LEVEL – AREA K
 - a. Clarified existing supply air duct risers.
 - b. Adjusted supply diffusers in Collaboration Lab 209A, Stem Web & Gaming lab 209B, Classroom 216, and Classroom 216A.
 - c. Adjusted UH-2 location in Science 213B.
84. M1.2L – MECHANICAL VENTILATION PLAN, SECOND LEVEL – AREA L

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- a. Volume damper for new return in Stem Database Lab 205C shown.
 - b. Return grilles in Teacher Planning Center 205A adjusted.
 - c. Changed duct size from 14x12 to 14 round.
 - d. Adjusted supply diffusers in Stem Comp. Lab 204 and Stem Comp. 204A.
85. M1.4E – MECHANICAL VENTILATION PLAN, ATTIC LEVEL – AREA E
- a. Added note “ROUTE NEW DUCT CLOSE TO THE NORTH WALL. COORDINATE DUCT DIMENSIONS TO MAINTAIN SIMILAR FREE AREA” to new return ductwork in attic.
 - b. Modified return duct routing south of EF-2/AHU-6 OAI.
86. M1.4G – MECHANICAL VENTILATION PLAN, ATTIC LEVEL – AREA G
- a. Added note “ROUTE NEW DUCT CLOSE TO THE NORTH WALL. COORDINATE DUCT DIMENSIONS TO MAINTAIN SIMILAR FREE AREA” to new return ductwork in attic.
 - b. Modified return duct routing south of EF-1/AHU-5 OAI.
 - c. Modified RF-5 return ductwork.
87. M1.4J – MECHANICAL VENTILATION PLAN, ATTIC LEVEL – AREA J
- a. Modified RF-5 return ductwork.
 - b. Added “PICTURE #1” to illustrate roof structure/constraints.
88. M1.5D – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA D
- a. Removed “DOUBLE-WALL” from outdoor ductwork note.
89. M1.5E – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA E
- a. Removed “DOUBLE-WALL” from outdoor ductwork note.
90. M1.5F – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA F
- a. Removed “DOUBLE-WALL” from outdoor ductwork note.
91. M1.5G – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA G
- a. Removed “DOUBLE-WALL” from outdoor ductwork note.
 - b. Modified 28x14 return duct dn.
 - c. Removed “DOUBLE-WALL” from outdoor ductwork note.
92. M1.5H – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA H
- a. Removed “DOUBLE-WALL” from outdoor ductwork note.
93. M1.5J – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA J
- a. Removed roof opening above auditorium roof.
94. M1.5K – MECHANICAL VENTILATION PLAN, ROOF LEVEL – AREA K
- a. Removed “DOUBLE-WALL” from outdoor ductwork note.
95. M2.1J – MECHANICAL PIPING PLAN, FIRST LEVEL – AREA J
- a. Show thermostat associated with CU-3 in Storage 117K and Storage 117J.
96. M2.1K – MECHANICAL PIPING PLAN, FIRST LEVEL – AREA K
- a. Modified pipe penetration up to second floor (north of Men’s Toilet 114T).
97. M2.1L – MECHANICAL PIPING PLAN, FIRST LEVEL – AREA L
- a. Replaced FTR in Office 100 with UH-2.

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98. M2.2D – MECHANICAL PIPING PLAN, SECOND LEVEL – AREA D
 - a. Replaced FTR in IT 204 with UH-1.
99. M2.2K – MECHANICAL PIPING PLAN, SECOND LEVEL – AREA K
 - a. Relocated FTR-C in Faculty Lounge 214A from East wall to South wall.
100. M2.3C – MECHANICAL PIPING PLAN, THIRD LEVEL – AREA C
 - a. Relocated FTR-C in Office 343 from South wall to East wall.
101. M2.3J – MECHANICAL PIPING PLAN, THIRD LEVEL – AREA J
 - a. Relocated FTR-C in Office 343 from West wall to North wall.
102. M5.2 – MECHANICAL DETAILS
 - a. Modified detail #9.
103. M6.2 – TEMPERATURE CONTROLS
 - a. Added general note #10.
104. M6.11 – TEMPERATURE CONTROLS
 - a. AHU-7 Pool And Locker Room Multi-Zone Air Handling Units; Added electric heaters with SCR controllers to three (3) branch ducts.
105. M6.14 – TEMPERATURE CONTROLS
 - a. Detail 1 – Rooftop unit control has been revised from communicating thermostat control to internal DDC controls in the rooftop unit with remote space temperature sensor. The BAS comm bus will be connected to the rooftop unit instead of the thermostat. Note: These changes are indicated via narrative only.
106. M6.14 – TEMPERATURE CONTROLS
 - a. Detail 5 - Baseboard Radiator detail was revised from wall mounted thermostat to valve mounted thermostat with remote bulb.
107. M6.16 – TEMPERATURE CONTROLS
 - a. Exhaust Fan Matrix – exhaust fan EF-D was added to the Exhaust Fan Matrix
108. M7.3 – MECHANICAL SCHEDULES
 - a. Modified "Air Handling Unit Schedule".
 - b. Added existing exhaust fan schedule
 - c. Added EF-D to exhaust fan schedule.
 - d. Modified DTC-205A &B
109. M7.4 – MECHANICAL SCHEDULES
 - a. Modified "Roof Top HVAC Unit Schedule (Gas Heating)".
 - b. Added Electrical Duct Heater Schedule
110. M7.5 – MECHANICAL SCHEDULES, VENTILATION SCHEDULES
 - a. Modified control damper schedule title.
 - b. Modified control damper schedule note #1.
111. M8.3 – MECHANICAL ENLARGED PLAN, BOILER ROOM
 - a. Location of existing condensate pipe trench in boiler room is added.

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- b. Modified general note
- 112. M8.4 – MECHANICAL ENLARGED PLAN, BOILER ROOM
 - a. Revised duct size for intake duct interlocked with exhaust fan EF-25.
 - b. Modified pool heater flue size.
 - c. Modified general note
- 113. M8.6 MECHANICAL ENLARGED PLAN, BOILER ROOM
 - a. Indicate location for neutralizing basin shown for B-1 thru B-5.
 - b. Changed natural gas pipe size to domestic water heaters.
- 114. M8.14 – MECHANICAL ENLARGED PLANS AND DETAILS
 - a. Indicate demolished louvers shown on AHU-7 demolition plan.
 - b. Removed “EXISTING” from new AHU-7/AHU-9 louver note.
- 115. M8.16 – MECHANICAL ENLARGED PLANS AND DETAILS
 - a. Demo’d louvers shown on AHU-9 demolition plan.
 - b. Removed “EXISTING” from new AHU-7/AHU-9 louver note.
 - c. Modify note to include wall and ceiling for AHU-9.
- 116. M8.18 – MECHANICAL ENLARGED CARPENTRY
 - a. Adjusted pipe and exhaust ductwork in Carpentry Lab 142.
 - b. Modified/add general note #3, #5, & #6.
- 117. E0.1 – ELECTRICAL SYMBOLS AND ABBREVIATIONS
 - a. Symbol list revised
 - b. Voltage drop table revised to add new duct heater panel feeder P-Base-D4
- 118. E0.2 – ELECTRICAL NOTES
 - a. Boiler room non-heating loads power transfer note 6 revised
 - b. Quantity assumptions panel repair note 10 revised
 - c. Added general note #41
- 119. E0.5 – ELECTRICAL LOAD CALCULATIONS 1
 - a. Added load calculations for distribution panel DP-D3 (Vault D-1 expansion)
- 120. ED1.0A – ELECTRICAL DEMOLITION PLAN, LOWER LEVEL - AREA A
 - a. Keyed note 1 at heat detector revised to keyed note 2
- 121. ED1.1A – ELECTRICAL DEMOLITION PLAN, FIRST LEVEL - AREA A
 - a. Panel LP-EMD revised from EXM (existing to be modified) to EXRPL (existing to be replaced)
- 122. ED1.1G – ELECTRICAL DEMOLITION PLAN, FIRST LEVEL - AREA G
 - a. Existing emergency shower revised to existing eye wash
 - b. Keyed note 14 added for Toilet room 132C.
- 123. ED1.2J – ELECTRICAL DEMOLITION PLAN, FIRST LEVEL - AREA A
 - a. Revised existing fixtures in rooms 215A and 215B to be demolished.
- 124. E1.1A – ELECTRICAL LIGHTING PLAN, FIRST LEVEL - AREA A
 - a. Clarified occupancy sensor coverage type

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125. E1.1D – ELECTRICAL LIGHTING PLAN, FIRST LEVEL - AREA D
 - a. Revised Light fixture placement room 142 & 144.
 - b. General note number 7 was added for coordination clarification.
 - c. Light switch relocation in room 140
126. E1.1F – ELECTRICAL LIGHTING PLAN, FIRST LEVEL - AREA F
 - a. Revised Light fixture placement room 016 & 018.
 - b. Clarified occupancy sensor coverage type.
127. E1.1H – ELECTRICAL LIGHTING PLAN, FIRST LEVEL - AREA H
 - a. Clarified occupancy sensor coverage type.
128. E1.1K – ELECTRICAL LIGHTING PLAN, FIRST LEVEL - AREA K
 - a. Clarified occupancy sensor coverage type.
129. E1.1L – ELECTRICAL LIGHTING PLAN, FIRST LEVEL - AREA L
 - a. Added Light fixture type, placement and amount; room 105 and 105A.
 - b. Revised occupancy sensor layout in room 105 and 105A.
 - c. Clarified occupancy sensor coverage type.
130. E1.2A – ELECTRICAL LIGHTING PLAN, SECOND LEVEL - AREA A
 - a. Revised Light fixture placement, rooms 257B and 256B
131. E1.2J – ELECTRICAL LIGHTING PLAN, SECOND LEVEL - AREA J
 - a. Keyed note number 7 is added clarifying mounting height of auditorium chandeliers
 - b. Key note number 2 not used.
 - c. Added new lighting fixtures, lighting controls and exit signs to rooms 215A and 215B.
132. E1.2K – ELECTRICAL LIGHTING PLAN, SECOND LEVEL - AREA K
 - a. Revised Light fixture placement room 209B
 - b. Revised Light fixture type and placement room 213A and 213B
 - c. Clarified occupancy sensor coverage type.
133. E1.2L – ELECTRICAL LIGHTING PLAN, SECOND LEVEL - AREA L
 - a. Revised Light fixture type and placement room 204A and 204B
 - b. Revised mounting height of lighting fixtures in Rooms 203 and 203A.
 - c. Clarified occupancy sensor coverage type.
134. E2.0A – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA A
 - a. Emergency battery units are added in electrical room and vault D1.
 - b. New 2.4 kV/240V transformer and distribution panel are added in vault D1.
 - c. Existing 2.4 kV switchgear is expanded
135. E2.0C – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA C
 - a. New distribution panel and power for electric duct unit heaters added
 - b. Steam condensate pump electrical demolition scope indicated
 - c. Notes regarding electrical installation in corrosive environment added
136. E2.0D – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA D
 - a. Emergency battery units are added in electrical room and vault B.
 - b. Heat detectors are added in air handling tunnel

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137. E2.0DE – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA E
 - a. Heat detectors are added in air handling tunnel
138. E2.0F – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA F
 - a. Steam condensate pump electrical demolition scope indicated
139. E2.0G – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA G
 - a. Emergency battery units are added in electrical room and vault A2.
 - b. Revised equipment layout in Vault A2
 - c. Heat detectors are added in air handling tunnel
140. E2.0H – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA H
 - a. Emergency battery units are added in electrical room and vault C2.
 - b. Steam condensate pump electrical demolition scope indicated
141. E2.0J – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA J
 - a. Emergency battery units are added in electrical room and vault A1.
 - b. Heat detectors are added in air handling tunnel
142. E2.0K – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA K
 - a. Emergency battery units are added in electrical room and vault C1.
143. E2.1A – ELECTRICAL POWER AND SYSTEMS PLAN, FIRST LEVEL - AREA A
 - a. Panel LP-EMD revised from EXM (existing to be modified) to EXRPL (existing to be replaced)
144. E2.1G – ELECTRICAL POWER AND SYSTEMS PLAN, FIRST LEVEL - AREA G
 - a. New emergency shower power and alarms are added in room #013.
 - b. Existing visual fire alarm device relocated in room #132C
145. E2.1L – ELECTRICAL POWER AND SYSTEMS PLAN, FIRST LEVEL - AREA L
 - a. Power for UH-2 added in room #100
146. E2.2D – ELECTRICAL POWER AND SYSTEMS PLAN, SECOND LEVEL - AREA D
 - a. Power for UH-1 added in room #240
147. E2.2L – ELECTRICAL POWER AND SYSTEMS PLAN, SECOND LEVEL - AREA L
 - a. New IT concentrator in room 203A is relocated from the north wall to the south wall
148. E4.1 – ELECTRICAL POWER RISER DIAGRAM VAULT A-1
 - a. Revised power supply information for roof top unit RTU-10
149. E4.5 – ELECTRICAL POWER RISER DIAGRAM VAULT D-1
 - a. Panel LP-EMD revised from EXM (existing to be modified) to EXRPL (existing to be replaced)
150. E4.6 – ELECTRICAL POWER RISER DIAGRAM VAULT C-1
 - a. Revised power supply information for roof top units RTU-1, 2
151. E4.8 – EXISTING ELECTRICAL VAULT B EXPANSION RISER DIAGRAM
 - a. Drawing title revised to EXISTING ELECTRICAL VAULT B and D1 EXPANSION RISER DIAGRAM
 - b. Riser diagram for vault D1 is added
 - c. Information on existing medium voltage switchgear and transformers is added
 - d. Revised new grounding conductor sizes

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152. E4.9 – 2.4 KV POWER DISTRIBUTION SYSTEM RISER DIAGRAM
 - a. Vault D1 diagram revised to reflect expansion
153. E4.10 – TELECOMMUNICATIONS RISER DIAGRAM
 - a. TV cable connection to MDF room added.
 - b. Conduit size for concentrator in room 209A identified
154. E4.12 – FIRE ALARM RISER DIAGRAM
 - a. Heat detectors are added in air handling tunnels
 - b. Requirement to revise existing fire alarm annunciators (FAA) as required by new scope is specified
155. E5.9 – ELECTRICAL DETAILS 9
 - a. Clarified where timeclock control is required within LRSP panels.
156. E6.1 – LIGHTING FIXTURE SCHEDULE
 - a. Emergency battery units tag EBU1, remote heads tag RH1, Area of rescue Assistance Signage ARA and ARA-WP added
 - b. Revised LRSP schedules to clarify timeclock control, sensor control and additional details on relay panel performance requirements.
157. E6.2 – LIGHTING RELAY PANEL SCHEDULE AND CONTROL NOTES 1
 - a. Revised Light Control Summary schedule
 - b. Revised LRSP schedules to clarify timeclock control, sensor control and additional details on relay panel performance requirements.
158. E6.3 – LIGHTING RELAY PANEL SCHEDULE AND CONTROL NOTES 2
 - a. Added Relay Panel schedules for rooms 215A and 215B.
 - b. Revised LRSP schedules to clarify timeclock control, sensor control and additional details on relay panel performance requirements.
159. E6.5 – MOTOR/EQUIPMENT WIRING SCHEDULE
 - a. Motor/Equipment wiring schedule revised to coordinate with plumbing and mechanical revisions
160. E6.6 – ELECTRICAL EMERGENCY PANEL SCHEDULES
 - a. Emergency power panels LP-EMA, LP-EMB, LP-EMC, LP-EMD circuits for A.R.A. signs are added
 - b. Panel LP-EMD revised from EXM (existing to be modified) to EXRPL (existing to be replaced)
161. E6.9 – ELECTRICAL PANEL SCHEDULE 3
 - a. Panel schedule 1CP-1 revised to reflect revisions to circuiting in room #013.
162. E6.10 – ELECTRICAL PANEL SCHEDULE 4
 - a. Panel schedule HDP-A1 revised to incorporate plumbing revisions
163. P0.0 – PLUMBING NOTES
 - a. Additional piping symbols added
164. P0.1A – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA A
 - a. Plumbing plan revised for clarification.
165. P0.1B - SANITARY PLUMBING PLAN BASEMENT LEVEL AREA B
 - a. Plumbing plan revised for clarification.

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166. P0.1C – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA C
 - a. Plumbing plan revised for clarification²

167. P0.1D – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA D
 - a. Plumbing plan revised for clarification

168. P0.1E – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA E
 - a. Plumbing plan revised for clarification

169. P0.1F – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA F
 - a. Plumbing plan revised for clarification.

170. P0.1G – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA G
 - a. Plumbing plan revised for clarification.

171. P0.1H – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA H
 - a. Plumbing plan revised for clarification.

172. P0.1J - SANITARY PLUMBING PLAN BASEMENT LEVEL AREA J
 - a. Plumbing plan revised for clarification.

173. P0.1K – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA K
 - a. Plumbing plan revised for clarification..

174. P0.1L – SANITARY PLUMBING PLAN BASEMENT LEVEL AREA L
 - a. Plumbing plan revised for clarification.

175. P0.2A – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA A
 - a. Domestic water pipe sizes added.

176. P0.2B – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA B
 - a. Domestic water pipe sizes added.

177. P0.2C – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA C
 - a. Domestic water pipe sizes added.

178. P0.2D – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA D
 - a. Domestic water pipe sizes added.

179. P0.2E – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA E
 - a. Domestic water pipe sizes added.

180. P0.2F – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA F
 - a. Domestic water pipe sizes added.

181. P0.2G – ELECTRICAL POWER AND SYSTEMS PLAN, LOWER LEVEL - AREA G
 - a. Domestic water pipe sizes added.

182. P0.2H – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA H
 - a. Domestic water pipe sizes added.

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183. P0.2J – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA J
 - a. Domestic water pipe sizes added.
184. P0.2K – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA K
 - a. Domestic water pipe sizes added.
185. P0.2L – DOMESTIC WATER PLUMBING PLAN, BASEMENT LEVEL AREA L
 - a. Domestic water pipe sizes added.
186. P3.1 – ENLARGED BASEMENT SANITARY PIPING DEMOLITION PLAN
 - a. Pipe sizes added
187. P3.2 – ENLARGED BASEMENT SANITARY PIPING PLAN
 - a. Plumbing equipment layout revised
 - b. Pipe sizes added.
188. P3.3 – ENLARGED BASEMENT DOMESTIC WATER PIPING DEMOLITION PLAN
 - a. Pipe sizes added.
189. P3.4 – ENLARGED BASEMENT DOMESTIC WATER PIPING PLAN
 - a. Plumbing equipment layout revised.
 - b. Additional pipe sizes added.
190. P3.13 – SCIENCE LAB 013 PLUMBING PLAN
 - a. New emergency shower added #013.
191. P3.14 – CULINARY LAB 113 PLUMBING PLAN
 - a. Revised keyed notes added.
192. P4.5 – PLUMBING DETAILS
 - a. Water heater detail revised to reduce the number of water heaters from three to two.
193. P4.7 – PLUMBING SCHEDULES
 - a. Water heater schedule revised.
 - b. Water heater storage tank schedule revised.

END OF ADDENDUM NO.1

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Contract No.C1557

CHICAGO VOCATIONAL CAREER ACADEMY HIGH SCHOOL – PHASE I RENOVATION

PROJECT WORK ALLOWANCE UNIT PRICE SCHEDULE (Addendum 1 Revised)

Item No.	Description of Work	Unit(s)	Unit Price
1	Roof Clay Tile Slab and Concrete Topping Patching and Repairs	Square Feet	\$13.00
2	Structural Steel Column/Beam Repairs – Grind/Clean	Linear Feet	\$44.00
3	Structural Steel Column Repairs – Cover Plating	Linear Feet	\$315.00
4	Structural Steel Column Repairs – Splice Plates	Lump Sum per each	\$5,200.00
5	Structural Steel Beam Repairs – Cover Plating	Linear Feet	\$300.00
6	Structural Steel Beam Repairs - Bearing Plate Replacement	Lump Sum per each	\$7,500.00
7	Not Used		
8	Not Used		
9	Not Used		
10	Not Used		
11	Not Used		
12	Not Used		
13	Not used		
14	Roof Drain Repair: repair and/or replacement of damaged roof drains based on the results of the video graphic inspection	Lump Sum per each drain	\$1,100.00
15	Floor Drain Repair: repair and/or replacement of damaged floor drains based on the results of the video graphic inspection	Lump Sum per each drain	\$900.00
16	Manhole Repair: repair and/or replacement of damaged manholes based on the results of the video graphic inspection	Lump Sum per each Manhole	\$5,750.00
17	Catch Basin Repair (Inside and Outside of the Building): repair and/or replacement of damaged catch basins based on the results of the video graphic inspection	Lump Sum per each Basin	\$5,750.00
18	Repair Sewer Piping Lines – Building Interior Underslab	Linear Feet	\$200.00
19	Repair Sewer Piping Lines – Building Interior Suspended	Linear Feet	\$158.00
20	Repair Sewer Piping Lines - Exterior site	Linear Feet	\$84.00
Total Project Work Allowance Fund =			\$3,490,000.00

PUBLIC BUILDING COMMISSION OF CHICAGO

Contract No.C1557

CHICAGO VOCATIONAL CAREER ACADEMY HIGH SCHOOL – PHASE I RENOVATION

NOTES: (Addendum 1 Revised)

1. Expenditure of Project Work Allowance Fund and Work associated shall be approved in writing by the Commission Representative prior to proceeding with work.
2. The Unit Prices shown on this Project Work Allowance Unit Price Schedule are full compensation for costs to perform all work shown in the corresponding detail (including Contractor's overhead and profit) except that these unit prices do not include any costs associated with shoring that may be required to safely perform the work detailed. Contractor costs for required shoring will be paid through use of the Commission's Contract Contingency.
3. All unused portions of the Allowance Fund must be returned to the Commission in the form of a deductive change order prior to Final Completion and Acceptance of the Work.
4. These Unit Prices apply to each unit of work ordered by the Commission Representative, and quantities required will be determined in the reasonable discretion of the Commission Representative.
5. The Plans and Specifications for this Project include none of the work described in this Project Work Allowance Unit Price Schedule. Bidders should therefore not include any costs for such Unit Price work in the bid for the Work as provided on Line 1. of the Bid Form.

RFI# Question

Answer

1	Does the temporary covered walkway need to be enclosed? Lighted? Heated?	The temporary covered walkway will at a minimum be accessible, protected, lighted and provide for a safe passage of students, faculty and staff from the 87th to the Anthony Wing. A full heated enclosure is not required.
2	Please clarify the completion dates for Area 1B and Area 3. Specification Section 01 14 11 "Construction Operations and Site Utilization Plan" pages 2 & 3 indicate 3/2014 through 12/19/2014. The phasing plans located at the end of the same specification indicate 3/2014 through 1/2015. Please advise.	The completion dates for Areas 1B and 3 is December 19, 2014. See Addendum 1 for further information.
3	Can a bid extension to 1/6/2014 be considered?	See Change 1 in Addendum 1
4	Please key/coordinate the unit price schedule to structural plan details.	Unit price #1 applies to details 1, 2, 3, and 4 of sheet S4.4 and the repairs specified in the structural clay tile roof deck repair specification. Unit price #3 applies to details 1 and 2 on sheet S5.3. Unit price #4 applies to details 3 and 4 on sheet S5.3. Unit price #5 applies to details 5, 6, 7, 8, 9, and 10 on sheet S5.4. Unit price #6 applies to details 11 and 12 on sheet S5.3. Unit price #7 applies to details 1, 2, 3, 4, and 5 on sheet S5.4. Unit price #8 applies to details 1, 2, 3, 4, and 6 on sheet S3.5. Unit price #9 applies to detail 5 on sheet S3.5. Unit price #10 applies to detail 13 on sheet S3.5. Unit price #11 applies to detail 1 on sheet S4.2. Unit price #12 applies to details 2, 3, 4, 5, 6, 7, 8, and 9 on sheet S3.3.
5	Drawing MD 1.50 shows to remove and replace EF-3 & 4. Drawing MD1.50 doesn't show these two (2) fans but has a new EF -13. Please advise which is correct.	New work is correct. Demo notes on MD1.5G will be revised in addendum to delete text: "... AND REPLACE EXISTING..."
6	Drawing MD1.5E indicates to remove and replace eight (8) relief vents at the north most wing. Drawing M1.5E shows for (4) replacement fans and one (1) gooseneck. Please confirm which is correct.	New work is correct. Demo notes on MD1.5E will be revised in addendum.
7	Note 3 on MD 1.0J indicates to provide new control dampers on "wild zones" as indicated on plans. Since there is no specific indication on which zones are wild nor do any dampers appear in the control damper schedule is it safe to assume there are no wild zones? Please advise.	New dampers are required. New dampers for "wild zones" are indicated on M1.0E and M1.0G.
8	Confirm the zone boxes are to remain and only be refurbished per details 4 & 6 on M5.5. Drawing M1.0G states to refer to M2.0G for zone box scope. Please clarify.	Yes, zone boxes are to remain and be refurbished per details. Note Referring to M2.0G will be deleted in addendum.
9	Please provide contractors with a name or list of names of companies that the Plbg. engineer would recommend to perform the cleaning and televising of the existing sewer system out at CVS----- I believe there are contractors who have already put time in preparing to familiarize themselves with this project---(mentioned at the walk thru by the plbg. engineer) Please advise---	The following were contractors that provided proposals for the scoping and repair of the plumbing piping that was sent to PBC for review: 1. H. R. Stewart 2. Cardno ATC 3. Design Consulting Engineers 4. C.J. Erickson
10	Formal request for a bid extension of at least one (1) week.	See change 1 in Addendum 1
11	It appears that a majority of the main water lines on the P0.1 drawings (tunnel/basement) are not sized. Most of the branch piping sizes called out. Are there risers or some other drawings that show the sizes of the water mains located in the tunnels/basement?	Pipe sizes will be included in Addendum 1, including branch piping.
12	Can copper piping be used for water piping 3" and larger instead of gray iron?	Piping shall be per plans and specs. All piping 4 inches and larger shall be gray pipe, as specified..
13	Intentionally left blank	Intentionally left blank

RFI# Question

Answer

14	Please verify the epoxy flooring in room 150 (room finish schedule calls for it in comments while flooring specified is rubber sheet flooring)	Where noted "EPOXY" in the Comments column of the room finish schedule...this pertains to wall paint, not floor finish. This will be clarified in Addendum 1.
15	Please specify the sizes of projection screens in the following rooms: 012, 019, 023, 106A, 114, 116 and 136.	012 projection screen is to be 7' and will be clarified in Addendum 1. 019, 023, 106A, 114, 116, and 136 are existing projection screens to remain
16	Intentionally left blank	Intentionally left blank
17	Cooling tower structural integrity each tower is 35,000 lbs. operating weight and on the roof of the existing boiler room. Please verify the structural integrity of the tower/roof.	The existing building structure and the new cooling tower steel support platform can support the two 35,000 lb cooling towers as is indicated on sheet S1.3H and associated structural details.
18	In the drawings (sheets A4.2 thru A4.8), 'Notes' item 3 requires wire brush or grinding the concrete topping. Roof cores taken during the pre-bid walkthrough revealed that the base layer of coal tar pitch was mopped directly to the concrete; this will be a very difficult and time consuming process which may not be 100% effective. Is this an absolute requirement for the project or can the roof manufacturer propose an alternative solutions while keeping the same warranty requirements?	The removal of the existing CTP roof membrane on the concrete deck surface shall be removed by whatever means necessary to properly prepare the concrete substrate to receive the new vapor retarder. The approval of the concrete deck preparation, on a daily basis, shall be determined by the independent roof quality control manager (RRO). A standard for acceptable deck preparation will be established by the Architect (roof consultant), manufacturer' technical representative and RRO at the start of the project. Note 3 is revised in the addendum.
19	Regarding staging, are we able to set cranes/equipment on the building grounds off 87th Street and Chappel Avenue? We would provide ground protection and landscape repair if required. Such staging would be helpful when working on building sections B, C, D, E, F, G and H	Yes, staging on grounds around the building will be allowed from NTP to Milestone #2. Coordination will be done with the School when and where the contractor can utilize.
20	Our contractors are participating in another walk thru at the site today until 11:00 am and some won't get back to their offices until 12 noon to get their RFIs turned in. Is it possible for us to turn them in by the end of today (3:00 or 4:00)?	The deadline for submitting RFI's to PBC was extended to Friday, January 24, 2014 at 3:30 pm.
21	The specifications 230700-29 insulation schedule states to insulate the exterior duct with R8 Insulation and Per Note #8 in the schedule Poly-Iso is to be used. The City Master Spec was changed last year to use rubber in lieu of the Poly-Iso since this product does not meet the Flame/Smoke of 75/150 in the specifications 230700 1.4 B2. The Spec section and the datasheet from one of the approved manufacturers is attached for your use. The other listed approved manufacturers also	Specification modified in addendum to indicate flexible elastomeric insulation or double-wall ductwork for exterior ductwork.
22	Spec Section 230700-29 Insulation schedule states to Externally Insulate the Exterior Duct. Spec Section 233113.3.1B6 states the Exterior Duct is to be Double Wall. Drawing Detail M5.2#7 "Roof Mounted Exhaust Fan" shows the fan & ductwork externally insulated. Drawing Detail M5.1 #6 "Roof Duct Support" states to insulate over the angle iron supports and seal in a weather type manner. Drawing Detail M5.1 #9 "Interior to Exterior Wall penetration" states Jacketed External Insulation. The most cost effective way to insulate duct is externally per the City Master Spec. Are the bidders picking the most cost effective method or will an addendum be issued to clarify this issue? Is it the city's intent to have both double wall AND external insulation?	Specification modified in addendum to indicate flexible elastomeric insulation or double-wall ductwork for exterior ductwork. Bidders may pick either of these methods to insulate exterior/roof mounted ductwork. It is not the intent to have both double wall AND external insulation.
23	It appears that a majority of the main water lines on the P0.1 drawings (tunnel/basement) are not sized. Most of the branch piping has sizes called out. Are there risers or some other drawings that show the sizes of the water mains located in the tunnel/basement?	The sizes will be included in the addendum. All branch sizes will be included in the addendum.

RFI# Question

Answer

24 Can copper piping be used for water piping 3" and larger instead of gray iron? Original Question: It appears that a majority of the main water lines on the P0.1 drawings (tunnel/basement) are not sized. Most of the branch piping has sizes called out. Are there risers or some other drawings that show the sizes of the water mains located in the	Piping shall be per plans and specs. All piping 4 inches and larger shall be gray pipe, as specified.
25 There does not appear to be a specification section for pool water piping. Is the piping for pool water to be the same as domestic (i.e., copper)?	A spec section will be added for pool piping in the addendum. Copper piping will not be allowed.
26 The wet weight of each cooling tower is 35,000 lbs. Two of them shown to be placed on the existing boiler room roof. Will the existing structure take this load? Plus the weight of supporting steel and a couple thousand pounds of pipe?	The existing building structure and the new cooling tower steel support platform can support the two 35,000 lb cooling towers as is indicated on sheet S1.3H and associated structural details.
27 On drawing A1.1G – rooms 009 & 012 – note 89 states 100% - is that supposed to say 100 sq. ft?	An estimated SF quantity will be clarified in Addendum 1
28 The CVCA HS project is very labor intense, with the potential of 200 to 300 workers on-site weekly. Many of the subs will be MBE/WBE firms and will be required to finance considerable payroll. Has the PBC considered implementing a front-end, quick pay process similar to what was used in the School Improvement Program during the summer of	PBC will work with the low bidder on an approval and payment process to help alleviate those concerns
29 L1.0 overall landscape plan shows circle-dot "existing trees to remain and be protected"; can we assume this note is limited to the boundaries in detail L1.1?	Tree protection is not limited to the area shown on Sheet L1.1. Per Specification 31 13 00, tree protection is to be provided for any trees that "interfere with, or are affected by, execution of the Work, whether temporary or new construction." Not every tree on site needs to be protected, only those that interfere with exterior work on the building façade, ramps, site improvements, etc. shall be protected according to Specification 31 13 00 and tree protection details on the project specifications and details on sheet L1.1.
30 Please clarify the number of plies in the vapor retarder (temporary roof). •System notes on A4.1 ("temporary roof A & B") call for a base ply and a cap sheet (2 total plies) • All the roofing details (A4.9-A4.10-A4.11) indicate "vapor retarder (temporary roof) – two (2) roofing ply sheets" • Specification (075113.13-3.25) says "install a continuous vapor retarder consisting of two (2) roofing composite plies, . . . lapping 19" . . . , with a modified bitumen cap sheet" which is three (3) plies. A cap sheet cannot be lapped with a base ply, so 19" laps have to be two plies of the same membrane (and a "composite ply" is different than a "cap sheet").	Follow Specification Section 075113.13 (2 composite plies and 1 cap sheet). Drawings will be corrected.
31 Please clarify the requirement for removal of the existing roofing from the New existing tile/concrete roof deck. Note #3 on all the Roof Plans (A4.2-A4.8) states to "remove existing coal tar built-up roofing system; grind or wire wheel brush as necessary to expose concrete". Who is going to determine the acceptable cleanliness of the concrete deck for the new roof? What is acceptable for the deck? Will the roof system manufacturer have the final say? Old pitch roofs can never be completely removed from a concrete deck; some residue and even felts can never be removed without extraordinary means, if at all. Applying grinders or wire wheel brushes to 220,000sf of roof deck is impractical and cost-prohibitive. Applying grinders or wire wheels to coal tar pitch will only cause it to soften/melt. And, from years of roofing experience, old clay tile roof decks with a "thin" concrete topping cannot be chipped-at with spades or similar tools to clean off tar, nor can they be shot-blasted or scarified, without fear of cracking or damaging the deck.	The removal of the existing CTP roof membrane on the concrete deck surface shall be removed by whatever means necessary to properly prepare the concrete substrate to receive the new vapor retarder. The approval of the concrete deck preparation, on a daily basis, shall be determined by the independent roof quality control manager (RRO). A standard for acceptable deck preparation will be established by the Architect (roof consultant), manufacturer technical representative and RRO at the start of the project. Note 3 is revised in the addendum.

RFI# Question

Answer

32 Please clarify removal of roof systems to the concrete deck; the existing roof system is 'stuck' to the deck (this was seen firsthand at the walkthrough since one of the contractor's took several cores – the architect witnessed the cores). Will 100% removal be required or only what is required by the manufacturer?	The removal of the existing CTP roof membrane on the concrete deck surface shall be removed by whatever means necessary to properly prepare the concrete substrate to receive the new vapor retarder. The approval of the concrete deck preparation, on a daily basis, shall be determined by the independent roof quality control manager (RRO). A standard for acceptable deck preparation will be established by the Architect (roof consultant), manufacturer' technical representative and RRO at the start of the project. Note 3 is revised in the addendum.
33 At the walk-through it was found that electrical panels in a couple rooms were missing covers at blank circuits. Please clarify the extent to which blank circuits need to be covered specific to Phase 1 rooms.	Contractor shall refer to Quantity assumptions notes located on dwg. E0.2 for the panels repair scope. Only panels affected by BP1 work shall be repaired including blank
34 Can any abatement or environmental remediation work in the basement tunnels or boiler room can occur during school hours or must all abatement occur when schools is not in session	PBC will work with the IDPH and CPS to receive approval to abate or and conduct asbestos abatement or other environmental remediation work in the basement tunnels or boiler room during school hours. The PBC cannot guarantee "all" abatement can occur when schools is in
35 Spec 028214-1.6–A Per this spec section the Environmental Contractor- Consultant New (EC) hired by the PBC will be will provide inspection, testing, & design services, Will these abatement design drawings be available prior to the bid due date of 2/4/14?	No, the design drawings will be prepared by the PBC's Envrionmental Consultant (EC) based on the scope and schedule of work as in coordination with the successful bidder.
36 Per Drawing A3.1A, Note (M), Projectors are listed as N.I.C. (BY OWNERS), however the screens are listed as being installed by contractor. Are the projector screens also being supplied by owner?	Projection screens are not being provided by owner – they are to be provided by contractor, see specification
37 Roof Construction Note #11 on the Roof Plans (A4.2-A4.8) and Detail 2/A4.9 both require 96" x 96" square 4# lead flashings at the drains. This is unheard of – there is a universal standard 36" x 36" lead flashing. The lead flashing's sole purpose is to have something soft & malleable under the drain clamping ring to conform when the ring is tightened down. 36" x 36" makes it just large enough so after it is centered you can strip in the perimeter 18" away from the drain. The issues with an 8'x8' lead (IF it can even be procured) are: *that it will weigh 256#, impossible to handle and install *almost all the existing roof drains are in corners, ~12" away from parapets, which means you can't center an 8' square lead sheet *legend note 3B on the roof plans and detail 2/A4.9 also indicate a 96" x 96" square tapered insulation sump --- this is fine and not unusual, but the sump size does not require a matching lead flashing size	Lead flashing at roof drains to be 36"x36".
38 In the spec section for door hardware it is calling for Yale cores, locksets, and keying. During the walk thru we noticed that almost all of the existing hardware is either Best or Corbin, can we use either Best or Corbin in lieu of Yale in order to match existing hardware?	Follow specifications
39 We would like to confirm that unit cost #7 applies to details 1,2,&3 on	This unit cost applies to details 1, 2, 3, 4, and 5 on sheet S5.4.
40 We would like to confirm that unit cost #6 applies to details 11 & 12 on S5.3.	Correct. This unit cost applies to details 11 and 12 on sheet S5.3.
41 We would like to confirm that unit cost #5 applies to details 5 thru 10 on S5.3, if so can the unit price be adjusted to \$537.94/lf (material \$129.59, shop time \$93.75, and field labor based on 2 hours \$314.60)?	Correct. This unit cost applies to details 5, 6, 7, 8, 9, and 10 on sheet S5.4. The unit price is intended to cover large quantities of cover plating and not sporadic locations. Unit cost will remain as published in Book 1.
42 We would like to confirm that unit cost #4 applies to detail 3 on S5.3.	This unit cost applies to details 3 and 4 on sheet S5.3.
43 We would like to confirm that unit cost #3 applies to detail 1 and 2 on S5.3	Correct. This unit cost applies to details 1 and 2 on sheet S5.3.

RFI# Question

Answer

44	Can unit cost #2 be adjusted to \$82.50/lf (1/2 hour)?	PBC has taken the recommendation under advisement. Allowance estimates 15min/lf for large quantities of work. Unit cost will remain as published in Book 1.
45	Drawing M.02 general note #74 state "all piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs" The specs 220700-32 3.21C1 states "pipe below 8" Is it all pipe exposed to view below 8; or ALL pipe exposed to view? Is the pipe in the crawl space exempt?	Note #74 stated "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs" not from current set. Note had been revised in 1/17/14 "Issued for Bid" set. Refer to specification 230700-3.21-A.
46	After reviewing the plan sheets and speaking with the architect, there is not an obvious scop of work for the terrazzo., he explained that they placed terrazzo repair in the specs in case they need it. Please confirm if it will be needed and if so please specify quantities and locations.	No interior terrazzo work
47	Will there be new toilet accessories installed? If so, please provide specifications.	No new toilet accessories in the project.
48	On Sheet A8.0, Door Hardware note 9 appears to concern overhead doors, but has been listed on the door schedule for several man door openings. Please review.	Door schedule note 9 for doors 1A/B/C and 5A/B/C is not required. See revised Door Schedule. Note 8, scrape, prime, and painting is required at these doors.
49	Drawing A1.1H shows a new door 025A, but it is not listed on the door schedule	See Addendum 1
50	Detail 10 on Sheet A4.9 calls out for metal siding to be removed and replaced, but no metal siding specification was issued.	Omit siding removal and replacement from the scope of work.
51	There are numerous locations on the demolition drawings where either doors (See Sheet AD1.1E, to the Left of Science Lab) or Access doors (AD1.1A, Room 157, below note 35) where an architectural item is shown dashed, but there are not any notes associated with it. Should these be left in place or removed?	Items shown dashed on Architectural demolition plans but not key noted are shown for reference in coordination with other disciplines/consultants. See Electrical drawings for Electrical Panels to be removed. See Addendum 1 Door Schedule on A8.0 for exterior doors to be removed. Items shown dashed on Architectural demolition plans but not key noted are shown for reference in coordination with other disciplines/consultants. See revised Door Schedule on A8.0 for exterior
52	Drawing M.02 General Note #74 states "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs". The specs 220700-32 3.21C1 states - pipe below 8". Is it all pipe exposed to view below 8' or ALL pipe exposed to view?	Note #74 stated "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs" not from current set. Note had been revised in 1/17/14 "Issued for Bid" set. Refer to specification 230700-3.21-A.
53	The glass in the transoms on doors that are being removed are shown as having asbestos containing glazing. In the removal of these transoms, what will be the procedure? Will there need to be full containment on the removal, or would removing them whole and bagging be sufficient?	Fire doors may be removed intact by licensed asbestos personnel under procedures detailed in Section 855.330 -Operations and Maintenance (O&M) of the Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois (77 Ill. Adm. Code 855). At this time, transoms with asbestos-containing glazing must be removed under gross removal procedures, however, a variance will be requested from IDPH to allow this work to be performed under the O&M procedures as well, but PBC cannot guarantee that the variance will be granted or that the response will be received prior to the date set for opening bids.
54	Is the pipe in the tunnel exempt from PVC jacket? Related to the following question: Item Drawing M.02 General Note #74 states "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs". The specs 220700-32 3.21C1 states - pipe below 8". Is it all pipe exposed to view below 8' or ALL pipe exposed to view?) Is the pipe in the tunnel exempt from PVC jacket?	Note #74 stated "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs" not from current set. Note had been revised in 1/17/14 "Issued for Bid" set. Refer to specification 230700-3.21-A.

RFI# Question

Answer

55 Is the pipe in the crawl space exempt? Related to the following question: Item Drawing M.02 General Note #74 states "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs". The specs 220700-32 3.21C1 states - pipe below 8". Is it all pipe exposed to view below 8' or ALL pipe exposed to view?) Is the pipe in the tunnel exempt from PVC jacket?	Note #74 stated "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs" not from current set. Note had been revised in 1/17/14 "Issued for Bid" set. Refer to specification 230700-3.21-A.
56 Depending on the above responses, and the reality that the M drawings do not identify room finish, each mechanical page will have to be cross referenced against the "A" drawings to determine PVC jacketing. Related to the following question: Item Drawing M.02 General Note #74 states "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs". The specs 220700-32 3.21C1 states - pipe below 8". Is it all pipe exposed to view below 8' or ALL pipe exposed to view?) Is the pipe in the tunnel exempt from PVC	Note #74 stated "All piping exposed to view in mechanical room, equipment room, boiler room, fan room classrooms and other areas on the first, second, and third floor to have a PVC jacket see specs" not from current set. Note had been revised in 1/17/14 "Issued for Bid" set. Refer to specification 230700-3.2-A.
57 The drawings do not contain a signage schedule. Please provide one.	See column "SIGN TYPE" in ROOM FINISH SCHEDULE ON A12.1
58 With expansion loops in place recommendation of this note will be impossible to fulfill. Please advise on how to achieve this.	Based on the schematic routing shown on design drawings we do not anticipate need for expansion loop. However, Construction drawings are schematic in nature, and contractor is required to analyze requirements on actual layout and provide design for expansion compensation/supports as necessary.
59 And how to deal with the cooling tower? Steel will be required to transfer load down there appears to be no provision for this. Please advise.	The existing building structure and the new cooling tower steel support platform can support the two 35,000 lb cooling towers as is indicated on sheet S1.3H and associated structural details.
60 Are there any structural calculations available to verify that the cooling towers are capable of handling the new loads.	The existing building structure and the new cooling tower steel support platform can support the two 35,000 lb cooling towers as is indicated on sheet S1.3H and associated structural details.
61 Berglund Construction is contesting the Project Site Allowance unit pricing currently in Book 1. See attached document.	See Change 3 in Addendum 1 for Unit Cost #13
62 Per Drawing A1.0H - There is a cut section 1/A10.1 - There is no Detail 1	See Addendum 1
63 Please provide Elevations for Existing Foundations to Remain in Place for the existing stairs?	Elevation tags added to entries #15 and #34.
64 Are dowel bars to be drilled and epoxied into limestone landings?	For the new exterior foundations indicated in the sections on sheets S5.5 and S5.6, all dowels shall be installed into existing concrete foundations. Dowel bars are to be provided at limestone landings per detail 6/A0.6
65 Are all expansion joints in exterior concrete work to be sealed?	Expansion joints in exterior concrete work are to be sealed per details and specifications
66 Stairs shown in the structural drawings indicate reinforcement bars, while all the stairs shown in architectural drawings indicate wwf. Please confirm this is accurate.	For the new exterior stairs indicated in the sections on sheets S5.5 and S5.6, all required reinforcement is shown on the structural drawings.

67 The detail on the fin tube valve (detail 1 page M5.6) states to provide a "2-way non-ddc thermostatic modulating control valve w/remote limit in return air stream (similar to a Danfloss valve)". Detail 5 on M6.14 shows a N.O. valve with a line voltage thermostat for baseboard radiator control. Is this detail in reference to the fin tube radiation? The sequence of operations also states the FTR shall have a space temperature setpoint of 68F adjustable, which would match the detail on M6.14 but contradict the detail on M5.6. Please clarify how the fin tube radiators are to be controls and if a line voltage thermostat is required or a self contained thermostatic valve. If it is a thermostatic valve please clarify if the sensing element is to be located in the fin tube enclosure per the detail or in the space per the sequence of operations	2- Control of fin tube radiator shall be as indicated on M5.6 detail 1 and specification 238236. Disregard fin tube control as shown on M6.14.
68 In talking to our supplier we know the engineers talked with the design team regarding all equipment sizing for the install. Has any of the obstructions found during design (for the installation or removal of equipment) been identified on the "A" drawings for work needed by others for the mechanicals to perform their work.	Maximum dimensions for equipment , we understand will fit, indicated on AHU's schedule and Return fan's schedule on drawing M7.3. All dimensions shall be verified in field by installing contractor.
69 Dampers at the top of the outside air intake shafts - Are there currently OSHA compliant platforms currently installed or being installed during the project for access of the install and maintenance of these dampers.	Contractor shall be in compliance with OSHA regulation for installation of new dampers.
70 M5.1 Detail 6 – Two of the notes states for the support to be as per SMACNA. This detail is not as per SMACNA. Please provide a detail of what is wanted per SMACNA	Install supports as shown on Detail drawing M5.1
71 M5.3 Detail 8 – Several of the notes and all of the pipe specialties are in conflict with Mfg. install guidelines. Also Note 8 is in conflict with the CPS spec for insulation thickness.	Delete note 8. Follow specification 230700 for insulation requirements.
72 M1.0A – General Note 4 – What certificates or qualifications should the person have to perform this work. Should this be a certified balancer as part of his pre-reads.	Work shall be performed by T & B contractor. Follow general requirements in T & B specification for contractor qualifications.
73 M1.0A Note 6 – In what format are you looking for with this documentation with the photos? Is this to be a report categorized by room/floor? There are hundreds of grills to be cleaned, this reporting and documentation will likely exceed the cost of the cleaning. Is there a purpose for the reporting like this or is grills count cleaned by room	Our experience on previous CPS projects, that without documentation this scope of work is not completed. Purpose of documentation to provide a proof that work is done. If grilles will be dirty during observation of completion of the project, contractor will be responsible for cleaning.
74 Drawing M8.16 General note 3 AHU9 calls for us to reuse plenum walls roof, & floor Blowup drawing of AHU #9 M8.16 states to install new plenum walls. Same detail calls for a new double wall. Which method are we to use?	For AHU-9 provide new double wall sheet metal enclosure. Refer to revision in Addendum 1.
75 Do all HM door frames get grouted at the head and the jamb at masonry and drywall partitions? If not, please identify which frames receive grout.	All HM door frames in masonry are to be grouted solid at the head & jamb. All HM door frames in steel stud/drywall partitions are NOT to be grouted solid. This will be clarified in Addendum #1
76 In talking to our supplier, we know they talked with the design team regarding all equipment sizing for the install. Has any obstructions found during design for the installation or removal of equipment been identified on the "A" drawings for work needed by others for the mechanicals to perform their work?	Maximum dimensions for equipment , we understand will fit, indicated on AHU's schedule and Return fan's schedule on drawing M7.3. All dimensions shall be verified in field by installing contractor.
77 Dampers at the top of the outside air intake shafts. Are there currently OSHA compliant platforms currently installed or being installed during the project for access of the install and maintenance of these dampers?	Contractor shall be in compliance with OSHA regulation for installation of new dampers.

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Answer

78	M5.1 Detail 6. Two of the notes states for the support to be as per SMACNA. This detail is not as per SMACNA. Please provide a detail of what is wanted per SMACNA.	Install supports as shown on Detail drawing M5.1
79	M5.3 Detail 8. Several of the notes and all of the pipe specifications are in conflict with Mfg. install guidelines. Also Note 8 is in conflict with the CPS spec for insulation thickness.	Delete note 8. Follow specification 230700 for insulation requirements.
80	Spec Section 230700-29 Insulation schedule states to Externally Insulate the Exterior Duct. Spec Section 233113.3.1B6 states the Exterior Duct is to be Double Wall. Drawing Detail M5.2#7 "Roof Mounted Exhaust Fan" shows the fan & ductwork externally insulated. Drawing Detail M5.1 #6 "Roof Duct Support" states to insulate over the angle iron supports and seal in a weather type manner. Drawing Detail M5.1 #9 "Interior to Exterior Wall penetration" states Jacketed External Insulation. The most cost effective way to insulate duct is externally per the City Master Spec. For example, the Bulletin Credit to the city on the Morgan Park High School project to use external insulation in lieu of double wall was over \$100,000. Are the bidders picking the most cost effective method or will an addendum be issued to clarify this issue? Is it the city's intent to have both double wall AND external insulation?	Specification modified in Addendum to allow indicate flexible elastomeric insulation, or double-wall ductwork for exterior ductwork. Bidders may pick either of these methods to insulate exterior/roof mounted ductwork. It is not the intent to have both double wall and external insulation.
81	M1.0A – General Note 4. What certificates or qualifications should person have to perform this work? Should this be a certified balancer the as part of his pre-reads.	Work shall be performed by T & B contractor. Follow general requirements in T & B specification for contractor qualifications.
82	M1.0A Note 6. In what format are you looking for with this documentation with the photos? Is this to be a report categorized by room/floor?	Our experience on previous CPS projects, that without documentation this scope of work is not completed. Purpose of documentation to provide a proof that work is done. If grilles will be dirty during observation of completion of the project, contractor will be responsible for cleaning.
83	Drawing M8.16 General Note 3. AHU9 calls for us to reuse plenum walls roof & floor. Blowup drawing of AHU #9 M8.16 states to install new plenum walls. Same detail calls for a new double wall. Which method are we to use?	For AHU-9 provide new double wall sheet metal enclosure. Refer to revision in Addendum 1.
84	All lower level prints calls for patching of air tunnels. Walls are constructed of lathe, plaster & concrete. This is not sheet metal work. Should this be on the A drawings?	Patching of air tunnel walls are included in the A series drawings. See Addendum #1 for clarification
85	What is their interpretation of the Heating by October 1st? Is it expected to use the new boilers for heating the school or complete heating controlled by BAS?	All spaces shall be heated by October 1. All spaces serviced by new boiler plant shall be controlled by new BAS, all spaces remained serviced by existing pneumatic system shall be controlled by existing
86	Feedback from the subcontractor market indicates that unit cost #13 cannot be performed at the unit cost provided. Attached is backup indicating a proposed revision to this unit cost? Please confirm \$116.30/sf is acceptable.	See Change 3 in Addendum 1 for Unit Cost #13
87	Note 3 on M1.1D states Provide new OAI louvers. Drawing M8.14 says existing louvers. Please clarify.	Drawing M8.14 had been revised in Addendum 1. Provide new OAI louvers.
88	Please confirm the four (4) 36"x14" RA Ducts from AHU-4 penetrate the floor with fire dampers and stop at that point and do not continue.	Confirm. The four (4) 36"x14" RA ducts from AHU-4 penetrate the floor with fire dampers and stop at that point. Refer to drawing M1.1G for RA duct from Cafeteria.
89	Please confirm UV-1, shown on M1.2E, room 238 and located in the center of the room is not scheduled to receive a new louver.	Confirm. There is no OAI louver for UV-1 in the center of the room.
90	Multiple details on drawing pages A5.14 – A5.28 indicate to remove and repair 100% of wood blocking/sheathing to match original. Please clarify. This is an unknown until the roof is removed. Are we to assume 100% replacement or can an allowance be established?	Wood blocking/sheathing is to be removed and replaced to match the original construction. Assume 100% replacement. Wood blocking and sheathing is indicated at parapet wall details where it occurs.

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91	Note 3 on drawing page A4.2 – A4.8 references patching concrete roof deck. Currently this is an unknown. Are we to include a cost in our bid for roof patching or will be handled on a unit costs basis? For bidding purposes if we are to include cost please provide a quantity.	Unit Cost #1. See Book 1 of the Project Manual.
92	General note 1 on drawing page A4.1 states the contractor will only be allowed to removed enough roofing that can be replaced that same day. Please confirm that the contractor will be allowed to remove as much as they required but it is up to our means and methods to keep the roof water tight before the new system is installed.	No phasing will be allowed. The vapor retarder (in its entirety) will be used as the temporary roof for the same day production.
93	Roof Construction Note 2 on drawing page A4.12 and A4.13 references patching roof deck. Currently this is an unknown. Are we to include a cost in our bid for roof patching or will be handled on a unit costs basis? For bidding purposes if we are to include cost please provide a quantity.	Unit Cost #1. See Book 1 of the Project Manual.
94	General Note 5 on drawing page A4.12 and A4.13 references tuckpointing backside of parapet wall. Are we to assume that the backsides of all parapet walls are to be tuckpointed 100% and this cost need to be included in our base bid?	Omit General note 5 on sheets A4.12 and A4.13. See details 8/9/10/11 on sheet A5.11 for scope of work at these areas. Parapet walls are to be removed and rebuilt per keynote 4.03 and associated details.
95	General Exterior Elevation Note 9 on drawing page A5.2 – A5.13 references replacing damaged brick masonry units. For bidding purposes please provide a quantity to include in our bid or will this work be performed on a unit cost basis	Damaged brick masonry units/areas are identified on the elevations by legend symbols and keynotes at the elevations.
96	General Exterior Elevation Note 11 on drawing page A5.2 – A5.13 states to tuckpoint 100% of the remaining masonry to be included in alternate #1. If alternate #1 is excepted are we to include tuckpointing the remaining masonry not already repaired in the base bid?	Alternate #1 includes grinding and pointing of masonry not addressed by other general exterior elevation notes and keynotes below the elevation of the water table. The cost of work includes tuckpointing all other masonry not being repaired.
97	General Exterior Elevation Note 10 on drawing page A5.2 – A5.13 states to remove & rebuild back up masonry steel locations. Please confirm that the extent of any repairs to the backup brick masonry to be included in our bid is what is shown in the details. Any additional work is an unknown and will be handled on a unit coast basis	The design intent as indicated by general note 10 and associated details is to remove and rebuild back up masonry to the extent that the indicated scope of work at the structural steel may be performed. See architectural and structural drawings for steel locations.
98	The exterior legend on drawing page A5.2 – A5.13 includes repair quantities. The same repair quantities are listed on each of the drawing pages. Is the intent to add all the quantities on all pages and include that total quantity in our bid or only include the repair quantities listed on 1 of the drawing pages?	Quantities on the individual sheets/elevations do not need to be added together. Repair quantities in the legend represent project totals for those symbols.
99	The exterior legend on drawing page A5.2 – A5.13 has a line items for different repair types. Several of the line items have multiple types of repairs listed. For bidding purposes we need to know a specific quantity for each repair. For example 1 repair ask us to include 700 SF of repair to brick / limestone / concrete. A specific quantity needs to be provided for each item.	Repair quantities as indicated in the legend on sheets A5.2-A5.13 are total quantities as indicated by symbol on the building elevation sheets. Specific locations for each repair type and façade material are indicated in the documents. See elevations.
100	Will the architect or engineer require access to the façade during our repair work. If so how many house should be included in our proposal?	Access to the façade will be required to review the existing steel conditions and determine where repairs are required.
101	Multiple details on drawing pages A5.14 – A5.28 indicate to patch existing limestone reglet. Please clarify. Can an allowance be established for this work? Is the depth of the existing reglet joint to scale?	The coping stones at the building possess a reglet which was used to terminate the original roof system. This reglet is not required for the new roof system and is to be patched. Do not scale drawings. Reglet is exposed and can be viewed on site at several locations.
102	Multiple details on drawing pages A5.14 – A5.28 indicate to patch 100% of holes at removed anchor locations. Please clarify. Can an allowance be established for this work currently the amount of patching is an unknown	Anchors for the existing roof system, lighting, and conduit, to be removed are present at the entire length of the limestone copings. Other miscellaneous items to be removed are also present. The removal of each item is indicated in the documents. The intent is for holes at removed items to be patched.
103	Are we to assume that all steel repairs including new hangers shown on drawing pages A5.14 – A5.28 are to be included in the work tasks and not used towards the allowance dollars?	New steel elements as indicated on sheets A5.14 – A5.28 are to be included in the cost of work, not as part of unit price values.

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104	Multiple details on drawing pages A5.14 – A5.28 indicate new limestone window heads to be 4". Currently the existing are 8". Are we to assume cost need to be included for cutting and reuse of existing?	Existing limestone window heads are to be modified and reused. See keynotes and details.
105	Section 04 01 20 of the project manual includes information that references repairs and or replacement to existing terra cotta. No terra cotta was observed on the drawings. Please clarify	Terra cotta is present at the Exhibition Hall, See Sheet A9.4. Assume 20SF of patching is required at removed acoustic ceilings/misc locations.
106	Detail 13a/A5.29 indicates a new angle supporting the brick masonry with a downward member that is checked into the masonry. Is this angle new? Please provide additional information as to what the downward member is to be and how many will be required per stone.	Detail 13a/A5.29 includes the new stone tie as called out in the details on sheets A5.14-A5.28. This tie is to be spaced every 4'-0" as indicated. Existing limestone units to be reused are to be modified to accommodate the downward leg of the tie. See detail16/A5.29
107	Drawing P3.14 indicated FD's to be raised to match floor. No FD's are shown. How many floor drains need to be raised to match the floor elevation.	There are eight (8) floor drains and or CO to be raised.
108	Drawing PO.2H, no pipe sizes are shown on the waters. Please provide pipe sizes for the waters on drawing PO,2H.	Pipe sizes will be included in Addendum 1, including branch piping.
109	Drawing PO.2E, no pipe sizes are shown on the waters. Please provide pipe sizes for the waters on drawing PO.2E.	Pipe sizes will be included in Addendum 1, including branch piping.
110	Drawing PO,2F, no pipe sizes are shown on the waters, Please provide pipe sizes for the waters on drawing PO.2F.	Pipe sizes will be included in Addendum 1 including branch piping.
111	Please confirm if the existing curbs at replacement goosenecks are to remain or be replaced with new. Are the new goosenecks to be the same size as the existing or per the plans?	All curbs on this project are to be new and set at a minimum 14" above roof height. The new goosenecks shall be sized per plans.
112	If an approved General Contractor intends to bid this project as a Joint Venture (JV) with a Minority Business Enterprise (MBE) partner, please explain how to calculate the percentage of the JV that may be attributed toward the MBE goal.	See Book 2 Section 23.01(3)(8) – Definition of Joint Venture which states in part the following: "Joint venture" means an association of two or more persons or entities or any combination of two or more business enterprises and persons numbering two or more, proposing to perform a single for-profit business enterprise, in which each joint venture partner contributes property, capital, efforts, skill and knowledge, and in which the MBE or WBE is responsible for a distinct, clearly-defined portion of the work of the contract and whose share in the capital contribution, control, management, risks and profits of the joint venture is equal to its ownership interest. Joint ventures must have an agreement in writing specifying the terms and conditions of the relationships between the parties and their relationship and responsibilities to the contract." See Book 2 Section 23.01(4)(d) – Determining MBE/WBE Utilization which states in part "a Contractor may count toward its MBE or WBE goal the portion of the total dollar value of a contract with an eligible joint venture equal to the percentage of the ownership and control of the MBE or WBE partner in the joint venture. A joint venture seeking to be credited for MBE participation may be formed among certified MBE and WBE firms, or between certified MBE and WBE firms and a non-MBE/WBE firm. A joint venture satisfies the eligibility standards of this Program if the certified MBE or WBE participant of the joint venture: (1) Shares in the ownership, control, management responsibilities, risks and profits of the joint venture; and (2) Is responsible for a clearly defined portion of work to be performed in proportion to the MBE or WBE ownership percentage.

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See Book 2 Section 23.01(4)(e)(f)(g)(h) – Determining MBE/WBE Utilization which states in part the following:

- A Contractor may count toward its MBE and WBE goals only expenditures to firms that perform a commercially useful function in the work of a contract. A firm is considered to perform a commercially-useful function when it is responsible for execution of a distinct element of the work of a contract and carries out its responsibilities by actually performing, managing, and supervising the work involved. To determine whether a firm is performing a commercially useful function, the Commission will evaluate the amount of work subcontracted, industry practices and other relevant factors.

- Consistent with normal industry practices, a MBE or WBE firm may enter into subcontracts. If a MBE or WBE contractor subcontracts a significantly greater portion of the work of a contract than would be expected on the basis of normal industry practices, the MBE or WBE will be rebuttably presumed not to be performing a commercially-useful function.

- A Contractor may count toward its goals expenditures to MBE or WBE manufacturers (i.e., suppliers that produce goods from raw materials or substantially alters them before resale).

- A Contractor may count toward its goals expenditures to MBE or WBE suppliers provided that the supplier performs a commercially useful function in the supply process. Expenditures to suppliers will only be counted if the supplies are sold to the contractor or subcontractor that installs those supplies in the Work.

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See Book 2 Section 23.01(5)(2) – Submission of Bid Proposals which states in part the following: Schedule B must be submitted at the time of the bid or proposal or within such extended period as provided in Article 23. An Affidavit of MBE/Non-MBE or WBE/Non-WBE Joint Ventures. Where the Bidder's MBE/WBE compliance proposal includes participation of any MBE or WBE as a joint venture participant, the Bidder must submit a "Schedule B: Affidavit of MBE/Non-MBE or WBE/Non-WBE Joint Venture" with an attached copy of the joint venture agreement proposed among the parties. The Schedule B and the joint venture agreement must clearly evidence that the MBE or WBE participant will be responsible for a clearly defined portion of the work to be performed and that the MBE or WBE firm's responsibilities are in proportion with its ownership percentage.
