



**Notice of Addendum No.2**

**Date of Addendum No.2: March 17, 2023**

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**Arlington Public Schools  
Procurement Office**

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**Invitation to Bid 95FY23**

**Invitation to Bid Title:** Barcroft Elementary School HVAC Replacement Project

**Invitation to Bid Number:** 95FY23

**Invitation to Bid Issue Date:** February 28, 2023

**Pre-Bid Conference:** February 9, 2023, at 10:00 A.M

**Bid Closing Date/Time:** March 24, 2023, No Later Than 11:59 P.M. (Local Prevailing Time)

**Bid Opening Date/Time:** March 27, 2023, at 10:00 A.M. (Local Prevailing Time)

**Procurement Office Representative:** Brandon Christian, VCA Senior Procurement Specialist (703) 228-7649 [brandon.christian@apsva.us](mailto:brandon.christian@apsva.us)

- A. **Responses to Bidder Questions:** The following information is provided to help Bidders submit a Bid in response to ITB 95FY23. Any updates to Drawings and Specifications for this Project will be available electronically as PDF file format by the Owner’s Representative (Engineer), CMTA Engineering. To access updated Drawings and Specifications, please contact Owner’s Representative (Engineer), Brice Watson via email at [bwatson@cmta.com](mailto:bwatson@cmta.com).

No.	Contract Document Reference	Bidder Questions	Response
1	230700	Section 230700 pg. 4 - 5.8 pipe insulation. 5.8.1 Hydronic chilled water, 5.8.2 Hydronic hot water, 5.8.3 Domestic water fill lines, 5.8.4 Condensate drain lines, 5.8.5 Refrigerant suction lines. Q:Is the Heat Pump water supply & return or the Condenser water supply & return piping to be insulated? If so, please provide the type of insulation and the thickness required?	Added clarifying section to 232200 in Addendum 2 that allows heat pump piping to be HDPE with copper runouts. HDPE piping mains for the heat pump piping does not require insulation, while copper piping for all systems will require insulation. Added heat pump loop and condenser loop insulation requirement to 5.8 of section 230700.

		the Heat Pump water supply & return or the Condenser water supply & return piping to be insulated? If so, please provide the type of insulation and the thickness required?	insulation. Added heat pump loop and condenser loop insulation requirement to 5.8 of section 230700.
2	M230	M230 show the two OAAHUs to have screen walls, we need structural steel design. Is there a specification on the screen wall?	Design work is currently underway on this change, but is not expected to be completed before the final addendum time. Addendum 2 will include an allowance for this scope to carry through bid.
3	M701	Cooling tower tons is listed on mechanical schedule as 200 tons, the stated performance conditions are 500gpm at 95/85/78. Please confirm the cooling tower should be sized for the stated performance conditions which is less than 200 cooling tower tons(15,000btu/h)	Flow of 500 gpm is correct. tower schedule has been corrected in addendum 2 to show 170 nominal tons to match.
4	M701	The cooling tower sump tank WT-1 is listed on the mechanical schedule with a 4,500-gal capacity. The dimensions are called out to be 8'x8'x8', this volume would only be 3,381 gallons. Please advise on the requirement for the tank including confirmation on the internal volume and external dimensions	Corrected schedule and tank to show 10' in height to match total capacity. While the tank may sit with 9' filled height normally and the bottom ~2' might not be usable fill this will equate to 3,350 gallons nominally. This will be 6+ minutes of pump operation at full flow and more roughly 3x the estimated volume of the tower, piping, and heat exchanger.
5	E100 E101	All old light features on cafeteria, library, and gym will be replace on phase 2 , 2024.	This is correct. This information has also been added to drawings. Alternate note changed Addendum 1 Narrative.
6	APS	Please confirm replace carpet on corridors and rooms where they are going to add closets and equipment. Phase 2, 2024	Per Addendum #02 drawings, carpet in hallway is to be replaced as part of the base bid. Classroom carpet replacement/pathcing is to occur as indicated in the drawings.
7	APS	Please confirm staging areas will be half of the basketball court and part of the field can we stage materials etc.	A sketch has been provided for informational purpose to define construction laydown areas that may be used by the contractor. The sketch defines areas that may be used during construction for school unoccupied (Summer) and occupied times (Fall, Winter, Spring).

**B. Clarifications:**

No.	Contract Document Reference	Revised Drawing or Specification Attachment	Revisions Narrative
1	All		Construction Documents have been updated with Addendum 1 Narratives and included in Addendum 2
2	012300 - ALTERNATES		<b>ADD</b> Alternate Specification 01 2300
3	F-100, F101		<b>DELETE</b> drawing note, "DASHED LINE INDICATES AREA WHERE EXISTING SPRINKLER SYSTEM SHALL

		<p>BE COMPLETELY MODIFIED TO MATCH THE NEW ARCHITECTURAL FLOOR AND CEILING PLANS AND TO COORDINATE WITH NEW DUCTWORK AND PIPING ABOVE CEILING. ALL PIPING FOUND TO BE LEAKING OR DAMAGED SHALL BE REMOVED AND REPLACED.”</p> <p><b>REPLACE</b> note with, "DASHED LINE INDICATES AREA WHERE EXISTING SPRINKLER SYSTEM MAY NEED TO BE MODIFIED TO MATCH THE NEW ARCHITECTURAL FLOOR AND CEILING PLANS AND TO COORDINATE WITH NEW DUCTWORK AND PIPING ABOVE CEILING. THE INTENT IS TO LEAVE EXISTING SPRINKLER HEADS IN THEIR EXISTING LOCATION TO THE EXTENT POSSIBLE AND ADD NEW SPRINKLER HEADS TO ACCOMMODATE NEWLY CONSTRUCTED HEAT PUMP CLOSETS. CONTRACTOR SHALL INCLUDE COSTS IN THEIR BASE BID FOR PROVIDING NEW SPRINKLER HEADS, INCLUDING BRANCH PIPING, HANGERS, SUPPORTS, FITTINGS, AND ESCUTCHEONS AT THE HEAT PUMP CLOSETS. POTENTIAL WORK REQUIRED TO RELOCATE EXISTING SPRINKLER HEADS WILL BE PERFORMED VIA ALLOWANCE. REFERENCE SPECIFICATION SECTION 01 2100 - ALLOWANCES.”</p>
4	F-100, F101	<p><b>DELETE</b> drawing note, “SPRINKLERS SHALL BE “TURNED UP” WHERE EXISTING CEILING ARE REMOVED TEMPORARILY.”</p> <p><b>REPLACE</b> note with, "SHOULD THE CONTRACTOR ELECT TO LEAVE THE CORRIDOR CEILINGS OUT WHILE SCHOOL IS IN SESSION, SPRINKLERS SHALL BE "TURNED UP" AS REQUIRED BY THE AHJ. CEILINGS MUST BE INSTALLED IN CLASSROOMS WHILE SCHOOL IS IN SESSION.”</p>
5	F-100, F101	<p><b>ADD</b> drawing note “SALVAGE AND REINSTALL ALL EXISTING SPRINKLER ESCUTCHEON PLATES. MISSING OR DAMAGED ESCUTCHEONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE.”</p>
6	F-100	<p><b>DELETE</b> drawing note, “SPRINKLER RUNOUTS IN ADMIN AREA SHOW SOME LEAKAGE AND DAMAGE DUE TO DISIMILAR METALS AT UNIONS. ALL LINES FOUND TO BE LEAKING, SHOWING RUST AND CORROSION, OR OTHERWISE DAMAGED SHALL BE REPLACED.”</p> <p><b>REPLACE</b> note with, "IMMEDIATELY AFTER EXISTING CEILING SYSTEMS ARE DEMOLISHED, CONTRACTOR SHALL SURVEY EXISTING ABOVE CEILING SPRINKLER PIPING AND REPORT IN WRITING TO THE OWNER OR OWNER'S REPRESENTATIVE ANY LEAKING OR DAMAGED PIPING. ANY SPRINKLER PIPING FOUND TO BE LEAKING OR DAMAGED SHALL BE REMOVED AND REPLACED</p>

			VIA ALLOWANCE. REFERENCE SPECIFICATION SECTION 01 2100 - ALLOWANCES.”
7	E-001		<b>DELETE</b> drawing note “ALL FIRE ALARM, VOICE, DATA AND INTERCOM SYSTEMS SHALL BE PRE AND POST TESTED BY OWNER. THE OWNER WILL NOTIFY THE CONTRACTOR OF THE TEST DATES AND ALLOW THEM TO WITNESS THE TESTING. REPORTS WILL BE GENERATED BY THE OWNER FOR THE FIRE ALARM AND INTERCOM SYSTEMS.” <b>REPLACE</b> note with “ALL FIRE ALARM, VOICE, DATA AND INTERCOM SYSTEMS SHALL BE PRE AND POST TESTED BY OWNER. THE OWNER WILL NOTIFY THE CONTRACTOR OF THE TEST DATES AND ALLOW THEM TO WITNESS THE TESTING. REPORTS WILL BE GENERATED BY THE OWNER FOR THE FIRE ALARM, VOICE, DATA AND INTERCOM SYSTEMS.”
8	E-001		Added duct detector test switch symbol to legend.
9	E-100		<b>DELETE</b> drawing note “CAFETERIA AND KITCHEN LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” <b>REPLACE</b> note with “CAFETERIA AND KITCHEN LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
10	E-100		<b>DELETE</b> drawing note “GYM LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” <b>REPLACE</b> note with “GYM LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
11	E-101		<b>DELETE</b> drawing note “MEDIA CENTER LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” <b>REPLACE</b> note with “MEDIA CENTER LIGHTING DEMOLITION SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
12	E-100 E-101 E-110 E-111 E-120		<b>DELETE</b> GENERAL NOTES (DEMOLITION) drawing note “K, CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.” <b>REPLACE</b> note with” K. CONTRACTOR SHALL SEAL ALL ABANDONED AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE

			RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.”
13	E-100 E-101 E-110 E-111 E-120		<b>DELETE</b> GENERAL NOTES (DEMOLITION) drawing note “O. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.” <b>REPLACE</b> note with “O. REMOVAL OF ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED BY OTHERS, NOT IN CONTRACT. COORDINATE WITH OWNER.”
14	E-100		Exit sign to be relocated.
15	E-200		<b>DELETE</b> drawing note “CAFETERIA AND KITCHEN LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” <b>REPLACE</b> note with “CAFETERIA AND KITCHEN LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
16	E-200		<b>DELETE</b> drawing note “GYM LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” <b>REPLACE</b> note with “GYM LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
17	E-200		Updated admin to include egress lighting and relocated exit sign.
18	E-201		<b>DELETE</b> drawing note “MEDIA CENTER LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED.” <b>REPLACE</b> note with “MEDIA CENTER LIGHTING NEW WORK SHALL ONLY BE DONE IF ADD ALTERNATE#1 IS ACCEPTED. ALTERNATE #1 WORK SHALL OCCUR SUMMER 2024”
19	E-101 E-110 E-111		Added existing to be demolished projectors.
20	E-300		Updated speaker symbol to 1’x2’ and added speakers to admin/corridors.
21	E-301 E-302 E-311		Added speakers to corridors.
22	E-500		Added owner furnished note to fixture schedule.
23	23 09 00 Temperature Control and Sequence of Operations for HVAC		<b>DELETE</b> Part 22- Refrigerant Monitoring System, Not in Contract
24	M-501		VARIABLE VOLUME DAMPER <b>DELETE</b> “ZONE UNOCCUPIED OVERRIDE:A TIMED LOCAL OVERRIDE

			CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.”
25	M-502		WATER SOURCE HEAT PUMP <b>DELETE</b> “ZONE UNOCCUPIED OVERRIDE:A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.”
26	M-504		DOMESTIC WATER HEATER PIPING SCHEMATIC <b>REVISE</b> Temperature to Kitchen from 140 to 120. <b>ADD</b> Second Tour and Anderson Electronic Tempering Valve requirement on on “To Kitchen” supply line.
27	01 3200		Incorrect footer. <b>DELETE</b> “SCOPE OF THE FIRE SUPPRESSION WORK 21 0501” <b>REPLACE</b> with “CONSTRUCTION PROGRESS DOCUMENTATION 01 3200”
28	01 5000		Incorrect footer. <b>DELETE</b> “SCOPE OF THE FIRE SUPPRESSION WORK 21 0501” <b>REPLACE</b> with “TEMPORARY FACILITIES AND CONTROLS GENERAL”
29	M212		Adjusted locations of new CUHs in 222s & 223s to match existing cabinet locations in wall.
30	M222		Adjusted locations of new CUHs in 222s & 223s to match existing cabinet locations in wall.
31	23 2200 – HVAC Piping		Added section for heat pump loop piping to include HDPE piping.
32	23 0700 – HVAC Insulation, Equipment, Ductwork and Piping		Added heat pump loop and condenser loop insulation to section 5.8
33	M601		Updated Roof Curb Detail
34	M700		Updated OA Unit Remarks
35	M701		Corrected cooling tower schedule to reference 170 nominal tons Updated tower notes to clarify controls to be provided by TCC Corrected WT-1 schedule and tank to show 10' in height to match total capacity
36	S100		New Steel and Screen Wall to be included in allowance, Ref. 01 2100
37	01 2100 Allowances		Updated specification to include allowance for Construction of Roof Top Equipment Screen Walls.
38	A001		Updated dimensions indicated in detail 1/A001
39	A002		Added Add Alternate #3 description.
40	A031		-Added demolition note #11. -Updated 1/A031 Demolition Plan – Level 1 – Area A to show demolition of existing carpet and rubber base in all corridors as part of the base bid scope of work.
41	A032		-Added Detail 3/A032. -Added demolition note #11.

			-Updated 1/A032 Demolition Plan – Level 1 – Area B to show demolition of existing carpet and rubber base in all corridors as part of the base bid scope of work.
42	A041		-Added demolition note #11. -Updated 1/A041 Demolition Plan – Level 2 – Area A to show demolition of existing carpet and rubber base in all corridors as part of the base bid scope of work.
43	A042		-Updated chase wall in Rm 230. -Added demolition keyed note to Rm 231. -Added demolition section callout 3/A032 to Rm 231. -Added demolition note #11. -Updated 1/A042 Demolition Plan – Level 2 – Area B to show demolition of existing carpet and rubber base in all corridors as part of the base bid scope of work.
44	A062		Updated chase wall and ceiling demolition in Rm 230.
45	A111		-Update to Floor Plan General Notes. Items #3, #12 and #14 changed to not used. -Updated 1/A111 Level 1 – Area A floorplan to show CPT-1 and RB-1 in all corridors as part of base bid scope of work.
46	A112		-Update to Floor Plan General Notes. Items #3, #12 and #14 changed to not used. -Updated Elevation General Note #12 to reference sheet A002. -Added detail 3/A112. -Updated 1/A112 Level 1 – Area B floorplan to show CPT-1 and RB-1 in all corridors as part of base bid scope of work.
47	A121		-Update to Floor Plan General Notes. Items #3, #12 and #14 changed to not used. -Updated 1/A121 Level 2 – Area A floorplan to show CPT-1 and RB-1 in all corridors as part of base bid scope of work.
48	A122		-Update to Floor Plan General Notes. Items #3, #12 and #14 changed to not used. -Updated chase wall at Rm 230. -Added cmu infill at demolished interior unit ventilator. -Added detail callout 3/A112 -Updated 1/A122 Level 2 – Area B floorplan to show CPT-1 and RB-1 in all corridors as part of base bid scope of work.
49	A211		Speaker symbol added to legend and updated in RCPS. Review RCPs for locations as they have adjusted slightly to work within ceiling grids.
50	A212		Speaker symbol added to legend and updated in RCPS. Review RCPs for locations as they have adjusted slightly to work within ceiling grids.
51	A221		Speaker symbol added to legend and updated in RCPS. Review RCPs for locations as they have adjusted slightly to work within ceiling grids.
52	A222		-Speaker symbol added to legend and updated in RCPS. Review RCPs for locations as they have adjusted slightly to work within ceiling grids. -Updated chase wall and ceiling at Rm 230.
53	09 6519		<b>ADD Resilient Tile Flooring Specification for Add Alt #3</b>

**\*Addendum No.2 must be signed, dated, and submitted via the secure cloud-based file sharing platform specified in the ITB prior to the Bid Closing Date/Time stated above OR acknowledgment of receipt of this Addendum may be noted on the Bid Form.**

**Name of Bidder:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

Issued By:

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