

January 9, 2024

ADDENDUM #2

East Hartford Public Schools Invitation to Bid #1847-24 Exterior Door and Window Replacement and HVAC Upgrades at Goodwin and Pitkin Elementary Schools

Note: If similar questions were received by multiple parties, questions were combined to form one question representing intent and answered below. In most instances, questions retain wording verbatim, so grammatical and other errors are not on behalf of EHPS.

Addendum #2 Also Includes the following:

- A. Specification for Goodwin: Section #123661 – Solid Surface Materials - 8 Pages*
- B. Specification for Pitkin: Section #123661 – Solid Surface Materials - 8 Pages*
- C. Architects Note on Goodwin Plans (See Page 5)*

Questions and Answer

1. **Question:** It looks like the specification section file for Goodwin is missing some pages in Section 087100 ?

Answer: Yes, there was an omission sighted in missing pages for Goodwin under section 087100 “DOOR HARDWARE” and Section 088853 “Security Glass” which was addressed and published in Addendum #1. (spec. available on the EHPS Website)

2. **Question:** Do the specifications require “School Guard” glazing for the entire project ?

Answer: No, the specifications only require “School Guard” glazing for just the entrances. See specification section 085113 Part 2.02.D Glass for information safety glass.

3. **Question:** Will the United Ernertech Model #EL-1-FR grille be acceptable as a match to the existing? This aluminum with Kynar finish and the order is large enough for custom colors at no additional charge so it can match the new window color.

Answer: Contractors are required to present their submittals after contract award. No submittal can be officially approved prior to the bid. However, this could be considered as a possibility, but there may be other manufacturers that could also be considered.

4. **Question:** Refer to Invitation to Bid Instructions and Requirements Item #4.
“After the opening of the bid, no bid can be withdrawn for a period of 90 days”.
Due to material lead times and project schedule, it is not feasible to hold our bid for that long. Can this requirement be revised to (30) days?
Answer: No, however it is the intent of the School District to award this bid, barring any unforeseen issues that would prolong the decision, in February of 2024 so that materials can be ordered in time to meet the project schedule.
5. **Question:** Refer to Invitation to Bid Instructions and Requirements Item #5.
“ The right is reserved to purchase either by option or the total options indicated, split awards and act as it seems in the best interest of the East Hartford Public School.”
Is that is the intent, it would seem a “Combination Price” to be awarded both schools would be in the best interest of the town. Is there a possibility of a bidder being awarded only one of the two schools?
Answer: It is the intent of the School District to award **both schools** to the lowest cost qualified and responsible contractor.
6. **Question:** Are contractors required to submit bids for both projects or is it permissible to submit for only one school?
Answer: It is the intent of the School District to award **both schools** to the lowest cost qualified and responsible contractor. District reserves the right to award as indicated in the bid.
7. **Question:** Refer to Section 011000-Summary 1.6.G Employee Screening. Please provide the Owner’s screening requirements so it can be determined if there are any associated costs with them.
Answer: For this specific project, due to the school being closed during construction to students under 18 years of age, this requirement is waved. However, contractors must show evidence when required, that their employees meet all applicable requirements set forth by CT Dept of Labor.
8. **Question:** Provide a material specification and color group range for the solid surface interior sills.
Answer: See attached specifications. Color selection shall be from manufacturers full color range.
9. **Question:** Provide a material thickness for the solid surface interior sills.
Answer: Material thickness shall be 3/4”

10. **Question:** Please provide specs for the existing ACT tiles and grid, as demo of the windows will effect adjacent tiles and need to be replaced.

Answer: It is not anticipated that existing ACT and grid will need to be replaced if the work is performed carefully with regards to salvaging. However, in the event these materials need to be replaced, refer to the owner for attic stock and manufacturer information.

11. **Question:** Please provide a spec for existing floors for flooring needed to be repaired after installation of new doors as per note H. under general construction notes on pages A-101

Answer: Flooring shall be provided by the owner from attic stock

12. **Question:** Please clarify the process of turning over the salvaged AC units. Where is the contractor to bring them to be stored?

Answer: Owner shall be notified when AC units are removed. Storage will be within the school district and a specified location will be determined at that time.

13. **Question:** Please provide a spec for the break metal that is to match the new window assembly.

Answer: Provide .125" break metal sill flashing to match exterior window finish.

14. **Question:** The invitation to Bid has start and completion dates listed as the year "2023, is this a mistake?

Answer: Project start date is June 10, 2024, (unless last day of school is pushed back due to Weather of other event that would cause a delay, and must be completed by August 26, 2024 for both schools.

15. **Question:** Are the new FRP doors and Aluminum sidelites in the courtyard part of the Deduct Alternative #1?

Answer: Yes

16. **Question:** Is there a budget you can share with this project?

Answer: There is a budget but feel its in the best interest of the school district if this remains unpublished.

17. **Question:** Will the award for this project be based on base bid or with alternative deduct? When will we know if the alternative deduct would be accepted?

Answer: It is the intent of the district to award the total project, the alternative deduct is only there in the event the lowest qualified total bid is over the budget, in which case the deduct may allow a better chance for the bid to be awarded.

18. **Question:** Are there any unit prices for abatement on the bid form?

Answer: No

19. **Question:** Per Addendum #1, "Security Glazing (SG\$) is required on entrance doors only".

Does this statement apply to the entrance doors only, not sidelites? Required in Courtyard Doors and sidelights?

Answer: Security Glazing is required at all glazing on Entrance Doors and frames, including Sidelites.

20. **Question:** Are the shades for window only? Not on storefront glass.

Answer: Shades are for windows only, not for storefront glass.

21. **Question:** Does each horizontal glass lite require an individual shade? Meaning not one large shade per window opening or spanning across two mullions

Answer: Each window gets its own individual shade.

22. **Question:** What is the finish required on FRP doors? Section 081743 lists both Anodized and paint finishes. Also, will the FRP face sheet have a manufacturer's standard color or custom color?

Answer: Finish for frames shall be painted. FRP face sheet color will be selected from Manufacturers full range of standard colors.

23. **Question:** Can you provide us with a list of sign-ins from the mandatory walk-thru?

Answer: List can be found on the East Hartford School website

24. **Question:** Does the mandatory walk-thru imply that no other general bidders will be allowed to bid on this project?

Answer: Yes, however those who attended the pre-bid meeting may use subcontractors who were not in attendance, all sub's will be subject to approval from the School District.

25. **Question:** Do you require the general bidders to sign each addenda issued and submit it with our bid documents? If so, would it be the last page (signature page) of the addendum only?

Answer: Yes.

27. **Question:** ITB Page 10 of 563. Bid proposal 4. "Completed required submittal forms". Are these simply the bid forms.

Answer: Referencing all required bid documents as stated in pages one (1) through fourteen (14) of the ITB listing the Bid forms and other Documents required for submittal.

28. **Question:** Are permit fees waved.

Answer: Yes, but there is a nominal CT School fee (.026%) which the awarded bidder will pay.

29. **Question:** In the project CHRO?

Answer: This project is federally funded, required compliance with Federal statues regarding Owned business as stated in the ITB.
minority

30. **Question:** What is the amount of liquidated damages?

Answer: None

31. **Question:** Is a proposed project schedule required with our quote.

Answer: No, required project timelines are outlined in the ITB

32. **Question:** Is a DAS pre-qualified certificate required with our quote?

33. **Answer:** Not required

End of Questions and Answers

Architects Note on Goodwin Plans:

Regarding Goodwin Elementary School, Sheet A-301, C2 Exterior Door Types, Frame F1 should be labeled F1A, and the frame immediately adjacent to the right should be labeled F1B.

22014

**EAST HARTFORD PUBLIC SCHOOLS
JOSEPH O. GOODWIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Provide solid surfacing fabrications including but not limited to following:
1. window sills.
- B. Related Sections: Following description of work is included for reference only and shall not be presumed complete:
1. Waste management and disposal requirements: Section 01 74 19, Waste Management and Disposal.
 2. Provision of elastomeric joint sealants: Section 07 92 00, Joint Sealants.
- C. Definitions:
1. Solid Surface: Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment.
- D. Reference Standards:
1. ANSI/NPA A208.2-09 - Medium Density Fiberboard (MDF) For Interior Applications
 2. ASTM C920-14a - Standard Specification for Elastomeric Joint Sealants
 3. ASTM D638-10 - Standard Test Method for Tensile Properties of Plastics
 4. ASTM D785-08 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials
 5. ASTM D790-10 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
 6. ASTM D5420-10 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)
 7. ASTM E84-14 - Standard Test Method for Surface Burning Characteristics of Building Materials
 8. ASTM E228-11 - Standard Test Method for Linear Thermal Expansion of Solid Materials with a Push-Rod Dilatometer
 9. ASTM G21-13 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
 10. ASTM G22-76(96) - Standard Practice for Determining Resistance of Plastics to Bacteria
 11. ASTM G155-13 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

22014

**EAST HARTFORD PUBLIC SCHOOLS
JOSEPH O. GOODWIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

- | | | |
|-----|--|--|
| 12. | CSA B45.5-11/
IAPMO Z124-2011 | - Plastic Plumbing Fixtures |
| 13. | NFPA 255-06 | - Standard Method of Test of Surface Burning Characteristics of Building Materials |
| 14. | NSF/ANSI 51-07 | - Food Equipment Materials |
| 15. | SCAQMD Rule 1168 | - Adhesive and Sealant Applications (amended January 2005) |
| 16. | UL 723 | - Standard for Test for Surface Burning Characteristics of Building Materials |
| 17. | UL Environment/
Materials,
GREENGUARD
UL 2818 | - Standard for Chemical Emissions for Building

- Finishes and Furnishings, Section 7.1 |
| 18. | UL Environment/
Materials,
GREENGUARD
UL 2818 | - Gold Standard for Chemical Emissions for Building

- Finishes and Furnishings, Section 7.1 and 7.2 |
| 19. | UL 2824 | - GREENGUARD Certification Program, Method for Measuring Microbial Resistance from Various Sources Using Static Environmental Chambers |

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meetings: Arrange preinstallation meeting 1 week prior to commencing work with all parties associated with trade as designated in Contract Documents or as requested by Architect. Presided over by Contractor, include Architect who may attend, Subcontractor performing work of this trade, Owner's representative, testing company's representative and consultants of applicable discipline. Review Contract Documents for work included under this trade and determine complete understanding of requirements and responsibilities relative to work included, storage and handling of materials, materials to be used, installation of materials, sequence and quality control, Project staffing, restrictions on areas of work and other matters affecting construction, to permit compliance with intent of work of this Section.

1.03 SUBMITTALS

- A. Product Data: Indicate Product description including solid surface sheets, sinks, bowls and illustrating full range of standard colors, fabrication information and compliance with specified performance requirements. Submit Product data with resistance to list of chemicals.
- B. Shop Drawings: Submit Shop Drawings for work of this Section in accordance with Section 01 30 00. Indicate plans, sections, dimensions, component sizes, edge details, thermosetting requirements, fabrication details, attachment provisions, sizes of furring, blocking, including concealed blocking and coordination requirements with adjacent work. Show locations and sizes of cutouts and holes for plumbing fixtures, faucets, soap dispensers, waste receptacles and other items installed in solid surface.
- C. Coordination Drawings: Submit coordination drawings indicating plumbing and miscellaneous steel work indicating locations of wall rated or non-rated, blocking requirements, locations and recessed wall items and similar items.

22014

**EAST HARTFORD PUBLIC SCHOOLS
JOSEPH O. GOODWIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

- D. Samples: Submit samples in accordance with Section 01 30 00. Submit minimum 6" x 6" samples. Cut sample and seam together for representation of inconspicuous seam. Indicate full range of color and pattern variation. Approved samples will be retained as standards for work.
- E. Test and Evaluation Reports: Submit flammability test reports [and food preparation zone certifications/listing confirming compliance with NSF/ANSI 51. Refer to www.nsf.org for the latest compliance to NSF/ANSI 51 for Food Zone — all food types.]

1.04 CLOSEOUT SUBMITTALS

- A. Operational and Maintenance Data:
 - 1. Submit manufacturer's care and maintenance data, including repair and cleaning instructions. Include in Project closeout documents.
 - 2. Provide a commercial care and maintenance kit and video. Review maintenance procedures and warranty details with Owner upon completion.

1.05 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installers: Provide work of this Section executed by competent installers with minimum 5 years experience in the application of Products, systems and assemblies specified and with approval and training of the Product manufacturers.
- B. Mock-Ups:
 - 1. Prior to final approval of Shop Drawings, erect 1 full size mock-up of each component at Project site demonstrating quality of materials and execution for Architect review.
 - 2. Should mock-up not be approved, rework or remake until approval is secured. Remove rejected units from Project site.
 - 3. Approved mock-up will be used as standard for acceptance of subsequent work.
 - 4. Approved mock-ups may remain as part of finished work.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver no components to Project site until areas are ready for installation.
- B. Storage and Handling Requirements:
 - 1. Store components indoors prior to installation.
 - 2. Handle materials to prevent damage to finished surfaces.

1.07 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer's standard warranty for material only for period of 10 years against defects and/or deficiencies in accordance with General Conditions of the

22014

**EAST HARTFORD PUBLIC SCHOOLS
JOSEPH O. GOODWIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

Contract. Promptly correct any defects or deficiencies which become apparent within warranty period, to satisfaction of Architect and at no expense to Owner.

PART 2 - PRODUCTS**2.01 MANUFACTURERS**

A. Manufacturer List: Products of following manufacturers are acceptable subject to conformance to requirements of Drawings, Schedules and Specifications:

1. Corian® by DuPont; www.corian.com
2. Samsung Chemical USA; www.staron.com
3. Wilsonart Contract; www.wilsonartcontract.com

B. Substitution Limitations: This Specification is based on Corian® Products. Comparable Products from manufacturers listed herein will be accepted provided they meet requirements of this Specification.

2.02 MATERIALS

A. Description:

B. Solid Surface Material:

C. Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment; not coated, laminated or of composite construction; meeting following criteria:

D. Flammability: Class 1 and A when tested to UL 723.

E. Adhesive for Bonding to Other Products: One component silicone to ASTM C920.

F. Sealant: A standard mildew-resistant, FDA/UL® [and NSF/ANSI 51 compliant in Food Zone area,] recognized silicone color matched sealant or clear silicone sealants.

G. Heat Reflecting Tape: Manufacturer's standard aluminum foil tape, with required thickness, for use with cutouts near heat sources.

H. Insulating Nomex® Fabric: Manufacturer's standard for use with conductive tape in insulating solid surface material from adjacent heat source.

2.03 COMPONENTS

A. Window Sills: 3/4" thick solid surfacing material, adhesively joined with inconspicuous seams, edge details as indicated on Drawings. Color selected later by Architect and Owner from manufacturer's full color range.

B. Fabrication:

22014

**EAST HARTFORD PUBLIC SCHOOLS
JOSEPH O. GOODWIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

1. Fabricate components in shop to greatest extent practical to sizes and shapes indicated, in accordance with approved Shop Drawings and solid polymer manufacturer requirements. Form joints between components using manufacturer's standard joint adhesive without conspicuous joints. Provide factory cutouts for plumbing fittings and bath accessories as indicated on Drawings.
2. Where indicated, thermoform corners and edges or other objects to shapes and sizes indicated on Drawings, prior to seaming and joining. Cut components larger than finished dimensions and sand edges to remove nicks and scratches. Heat entire component uniformly prior to forming.
3. Ensure no blistering, whitening and cracking of components during forming.
4. Fabricate joints between components using manufacturer's standard joint adhesive. Ensure joints are inconspicuous in appearance and without voids. Attach 50 mm (2") wide reinforcing strip of solid polymer material under each joint. Reinforcing strip of solid polymer material is not required when using DuPont™ Joint Adhesive 2.0.
5. Provide holes and cutouts for plumbing and bath accessories as indicated on Drawings or required by field conditions.
6. Rout and finish component edges to a smooth, uniform finish. Rout cutouts, then sand edges smooth. Repair or reject defective or inaccurate work.
7. Finish: Ensure surfaces have uniform finish:
 - a. Matte, with a 60° gloss rating of 5 - 20.
8. Fabrication Tolerances:
 - a. Variation in Component Size: +/-1/8".
 - b. Location of Openings: +/-1/8" from indicated location.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions:
 1. Examine substrates and conditions, with fabricator present for compliance with requirements for installation tolerances and other conditions affecting performance of work. Proceed with installation only after unsatisfactory conditions have been corrected.
 2. Verify actual site dimensions and location of adjacent materials prior to commencing work.
 3. Notify Architect in writing of any conditions which would be detrimental to installation.
- B. Evaluation and Assessment: Commencement of work implies acceptance of previously completed work.

3.02 INSTALLATION

- A. Install components plumb, level, rigid, scribed to adjacent finishes in accordance with reviewed Shop Drawings and Product installation details.
- B. Fabricate field joints using manufacturer's recommended adhesive, with joints being inconspicuous in finished work. Exposed joints/seams are not permitted. Keep components and

22014

**EAST HARTFORD PUBLIC SCHOOLS
JOSEPH O. GOODWIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

hands clean when making joints. Reinforce field joints as specified herein. Cut and finish component edges with clean, sharp returns.

- C. Route radii and contours to template. Anchor securely to base component or other supports. Align adjacent components and form seams to comply with manufacturer's written recommendations using adhesive in color to match work. Carefully dress joints smooth, remove surface scratches and clean entire surface.
- D. Seal between wall and components with joint sealant as specified herein and in Section 07 92 00, as applicable.
- E. Keep components and hands clean during installation. Remove adhesives, sealants and other stains. Ensure components are clean on date of Substantial Completion of the Work.

3.03 REPAIR

- A. Repair minor imperfections and cracked seams and replace areas of severely damaged surfaces in accordance with manufacturer's "Technical Bulletins".

3.04 SITE QUALITY CONTROL

- A. Non-Conforming Work: Replace damaged work which cannot be satisfactorily repaired, restored or cleaned, to satisfaction of Architect at no cost to Owner.

3.05 CLEANING

- A. Remove excess adhesive and sealant from visible surfaces.
- B. Clean surfaces in accordance with manufacturer's "Care and Maintenance Instructions".

3.06 PROTECTION

- A. Provide protective coverings to prevent physical damage or staining following installation for duration of Project.
- B. Protect surfaces from damage until date of Substantial Completion of the Work.

END OF SECTION

22013

**EAST HARTFORD PUBLIC SCHOOLS
GOVERNOR WILLIAM PITKIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Provide solid surfacing fabrications including but not limited to following:
1. window sills.
- B. Related Sections: Following description of work is included for reference only and shall not be presumed complete:
1. Waste management and disposal requirements: Section 01 74 19, Waste Management and Disposal.
 2. Provision of elastomeric joint sealants: Section 07 92 00, Joint Sealants.
- C. Definitions:
1. Solid Surface: Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment.
- D. Reference Standards:
1. ANSI/NPA A208.2-09 - Medium Density Fiberboard (MDF) For Interior Applications
 2. ASTM C920-14a - Standard Specification for Elastomeric Joint Sealants
 3. ASTM D638-10 - Standard Test Method for Tensile Properties of Plastics
 4. ASTM D785-08 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials
 5. ASTM D790-10 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
 6. ASTM D5420-10 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)
 7. ASTM E84-14 - Standard Test Method for Surface Burning Characteristics of Building Materials
 8. ASTM E228-11 - Standard Test Method for Linear Thermal Expansion of Solid Materials with a Push-Rod Dilatometer
 9. ASTM G21-13 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
 10. ASTM G22-76(96) - Standard Practice for Determining Resistance of Plastics to Bacteria
 11. ASTM G155-13 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

22013

**EAST HARTFORD PUBLIC SCHOOLS
GOVERNOR WILLIAM PITKIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

- | | | |
|-----|--|--|
| 12. | CSA B45.5-11/
IAPMO Z124-2011 | - Plastic Plumbing Fixtures |
| 13. | NFPA 255-06 | - Standard Method of Test of Surface Burning Characteristics of Building Materials |
| 14. | NSF/ANSI 51-07 | - Food Equipment Materials |
| 15. | SCAQMD Rule 1168 | - Adhesive and Sealant Applications (amended January 2005) |
| 16. | UL 723 | - Standard for Test for Surface Burning Characteristics of Building Materials |
| 17. | UL Environment/
Materials,
GREENGUARD
UL 2818 | - Standard for Chemical Emissions for Building

- Finishes and Furnishings, Section 7.1 |
| 18. | UL Environment/
Materials,
GREENGUARD
UL 2818 | - Gold Standard for Chemical Emissions for Building

- Finishes and Furnishings, Section 7.1 and 7.2 |
| 19. | UL 2824 | - GREENGUARD Certification Program, Method for Measuring Microbial Resistance from Various Sources Using Static Environmental Chambers |

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meetings: Arrange preinstallation meeting 1 week prior to commencing work with all parties associated with trade as designated in Contract Documents or as requested by Architect. Presided over by Contractor, include Architect who may attend, Subcontractor performing work of this trade, Owner's representative, testing company's representative and consultants of applicable discipline. Review Contract Documents for work included under this trade and determine complete understanding of requirements and responsibilities relative to work included, storage and handling of materials, materials to be used, installation of materials, sequence and quality control, Project staffing, restrictions on areas of work and other matters affecting construction, to permit compliance with intent of work of this Section.

1.03 SUBMITTALS

- A. Product Data: Indicate Product description including solid surface sheets, sinks, bowls and illustrating full range of standard colors, fabrication information and compliance with specified performance requirements. Submit Product data with resistance to list of chemicals.
- B. Shop Drawings: Submit Shop Drawings for work of this Section in accordance with Section 01 30 00. Indicate plans, sections, dimensions, component sizes, edge details, thermosetting requirements, fabrication details, attachment provisions, sizes of furring, blocking, including concealed blocking and coordination requirements with adjacent work. Show locations and sizes of cutouts and holes for plumbing fixtures, faucets, soap dispensers, waste receptacles and other items installed in solid surface.
- C. Coordination Drawings: Submit coordination drawings indicating plumbing and miscellaneous steel work indicating locations of wall rated or non-rated, blocking requirements, locations and recessed wall items and similar items.

22013

**EAST HARTFORD PUBLIC SCHOOLS
GOVERNOR WILLIAM PITKIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

- D. Samples: Submit samples in accordance with Section 01 30 00. Submit minimum 6" x 6" samples. Cut sample and seam together for representation of inconspicuous seam. Indicate full range of color and pattern variation. Approved samples will be retained as standards for work.
- E. Test and Evaluation Reports: Submit flammability test reports [and food preparation zone certifications/listing confirming compliance with NSF/ANSI 51. Refer to www.nsf.org for the latest compliance to NSF/ANSI 51 for Food Zone — all food types.]

1.04 CLOSEOUT SUBMITTALS

- A. Operational and Maintenance Data:
 1. Submit manufacturer's care and maintenance data, including repair and cleaning instructions. Include in Project closeout documents.
 2. Provide a commercial care and maintenance kit and video. Review maintenance procedures and warranty details with Owner upon completion.

1.05 QUALITY ASSURANCE

- A. Qualifications:
 1. Installers: Provide work of this Section executed by competent installers with minimum 5 years experience in the application of Products, systems and assemblies specified and with approval and training of the Product manufacturers.
- B. Mock-Ups:
 1. Prior to final approval of Shop Drawings, erect 1 full size mock-up of each component at Project site demonstrating quality of materials and execution for Architect review.
 2. Should mock-up not be approved, rework or remake until approval is secured. Remove rejected units from Project site.
 3. Approved mock-up will be used as standard for acceptance of subsequent work.
 4. Approved mock-ups may remain as part of finished work.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver no components to Project site until areas are ready for installation.
- B. Storage and Handling Requirements:
 1. Store components indoors prior to installation.
 2. Handle materials to prevent damage to finished surfaces.

1.07 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer's standard warranty for material only for period of 10 years against defects and/or deficiencies in accordance with General Conditions of the

22013

**EAST HARTFORD PUBLIC SCHOOLS
GOVERNOR WILLIAM PITKIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

Contract. Promptly correct any defects or deficiencies which become apparent within warranty period, to satisfaction of Architect and at no expense to Owner.

PART 2 - PRODUCTS**2.01 MANUFACTURERS**

- A. Manufacturer List: Products of following manufacturers are acceptable subject to conformance to requirements of Drawings, Schedules and Specifications:
1. Corian® by DuPont; www.corian.com
 2. Samsung Chemical USA; www.staron.com
 3. Wilsonart Contract; www.wilsonartcontract.com
- B. Substitution Limitations: This Specification is based on Corian® Products. Comparable Products from manufacturers listed herein will be accepted provided they meet requirements of this Specification.

2.02 MATERIALS

- A. Description:
- B. Solid Surface Material:
- C. Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment; not coated, laminated or of composite construction; meeting following criteria:
- D. Flammability: Class 1 and A when tested to UL 723.
- E. Adhesive for Bonding to Other Products: One component silicone to ASTM C920.
- F. Sealant: A standard mildew-resistant, FDA/UL® [and NSF/ANSI 51 compliant in Food Zone area,] recognized silicone color matched sealant or clear silicone sealants.
- G. Heat Reflecting Tape: Manufacturer's standard aluminum foil tape, with required thickness, for use with cutouts near heat sources.
- H. Insulating Nomex® Fabric: Manufacturer's standard for use with conductive tape in insulating solid surface material from adjacent heat source.

2.03 COMPONENTS

- A. Window Sills: 3/4" thick solid surfacing material, adhesively joined with inconspicuous seams, edge details as indicated on Drawings. Color selected later by Architect and Owner from manufacturer's full color range.
- B. Fabrication:

22013

**EAST HARTFORD PUBLIC SCHOOLS
GOVERNOR WILLIAM PITKIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

1. Fabricate components in shop to greatest extent practical to sizes and shapes indicated, in accordance with approved Shop Drawings and solid polymer manufacturer requirements. Form joints between components using manufacturer's standard joint adhesive without conspicuous joints. Provide factory cutouts for plumbing fittings and bath accessories as indicated on Drawings.
2. Where indicated, thermoform corners and edges or other objects to shapes and sizes indicated on Drawings, prior to seaming and joining. Cut components larger than finished dimensions and sand edges to remove nicks and scratches. Heat entire component uniformly prior to forming.
3. Ensure no blistering, whitening and cracking of components during forming.
4. Fabricate joints between components using manufacturer's standard joint adhesive. Ensure joints are inconspicuous in appearance and without voids. Attach 50 mm (2") wide reinforcing strip of solid polymer material under each joint. Reinforcing strip of solid polymer material is not required when using DuPont™ Joint Adhesive 2.0.
5. Provide holes and cutouts for plumbing and bath accessories as indicated on Drawings or required by field conditions.
6. Rout and finish component edges to a smooth, uniform finish. Rout cutouts, then sand edges smooth. Repair or reject defective or inaccurate work.
7. Finish: Ensure surfaces have uniform finish:
 - a. Matte, with a 60° gloss rating of 5 - 20.
8. Fabrication Tolerances:
 - a. Variation in Component Size: +/-1/8".
 - b. Location of Openings: +/-1/8" from indicated location.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions:
 1. Examine substrates and conditions, with fabricator present for compliance with requirements for installation tolerances and other conditions affecting performance of work. Proceed with installation only after unsatisfactory conditions have been corrected.
 2. Verify actual site dimensions and location of adjacent materials prior to commencing work.
 3. Notify Architect in writing of any conditions which would be detrimental to installation.
- B. Evaluation and Assessment: Commencement of work implies acceptance of previously completed work.

3.02 INSTALLATION

- A. Install components plumb, level, rigid, scribed to adjacent finishes in accordance with reviewed Shop Drawings and Product installation details.
- B. Fabricate field joints using manufacturer's recommended adhesive, with joints being inconspicuous in finished work. Exposed joints/seams are not permitted. Keep components and

22013

**EAST HARTFORD PUBLIC SCHOOLS
GOVERNOR WILLIAM PITKIN ELEMENTARY SCHOOL
EXTERIOR DOOR & WINDOW REPLACEMENTS
AND HVAC UPGRADES**

hands clean when making joints. Reinforce field joints as specified herein. Cut and finish component edges with clean, sharp returns.

- C. Route radii and contours to template. Anchor securely to base component or other supports. Align adjacent components and form seams to comply with manufacturer's written recommendations using adhesive in color to match work. Carefully dress joints smooth, remove surface scratches and clean entire surface.
- D. Seal between wall and components with joint sealant as specified herein and in Section 07 92 00, as applicable.
- E. Keep components and hands clean during installation. Remove adhesives, sealants and other stains. Ensure components are clean on date of Substantial Completion of the Work.

3.03 REPAIR

- A. Repair minor imperfections and cracked seams and replace areas of severely damaged surfaces in accordance with manufacturer's "Technical Bulletins".

3.04 SITE QUALITY CONTROL

- A. Non-Conforming Work: Replace damaged work which cannot be satisfactorily repaired, restored or cleaned, to satisfaction of Architect at no cost to Owner.

3.05 CLEANING

- A. Remove excess adhesive and sealant from visible surfaces.
- B. Clean surfaces in accordance with manufacturer's "Care and Maintenance Instructions".

3.06 PROTECTION

- A. Provide protective coverings to prevent physical damage or staining following installation for duration of Project.
- B. Protect surfaces from damage until date of Substantial Completion of the Work.

END OF SECTION

END OF ADDENDUM #1

East Hartford Public Schools
Invitation to Bid # 1847-24
**Exterior Door and Window Replacement and HVAC Upgrades at
Goodwin and Pitkin Elementary Schools**

Addendum #2 Also Includes the following:

- a. Specification for Goodwin: Section #123661 – Solid Surface Materials*
- b. Specification for Pitkin: Section #123661 – Solid Surface Materials*
- c. Questions & Answers*
- d. Architects Note on Goodwin Plans*

**Bidders must acknowledge and include this Addendum page as part of
their bid package. The bidder acknowledges receipt of Addendum #2:**

Date: _____

Name of Bidder: _____

Title: _____

Address: _____