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BY: ..... addendum #1  
7-14

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to ALL BIDDERS from David Bushnell, A.I.A., LEED AP date 07.06.09  
company project **Music Classroom Building** pages 3 including this page  
Round Valley Unified School District  
76290 High School Street  
Covelo, CA 95428

project # 614

- urgent  
 please review  
 please reply

re: ADDENDUM #1

**General:**

The information provided in this addendum shall supersede the original drawings and specifications and addenda wherein it contradicts the same. All other conditions remain the same.

Bidder shall acknowledge and incorporate into their bid package the following changes and special information:

1. Project Manual:

**Item No.1** (Section 00010-Notice Inviting Bids, page 1):

Delete: "upon deposit of (\$50.00) per set"

Add: "also available at Ford Graphics, Public Planwell- Public Planroom <http://www.fordsfoplanwell.com/>"

**Item No.2** (Section 00010-Notice Inviting Bids, page 2):

Delete: "A mandatory pre-bid conference will be held on July 7, 2009 at 10:00 PM"

Add: "A mandatory pre-bid conference will be held on July 7, 2009 at 10:00 AM"

**Item No.3** (Section 00500.4- Time of Completion):

Delete: "thirty (30) calendar days"

Add: "one hundred (100) calendar days"

**Item No.4** (Section 00100.21):

Add: As the reconstruction of this building is based on the original documents, dated May 1989, some of the material specified in the original documents may no longer be available. All material substitutions shall be clearly identified and incorporated into Bid Price. No Change Orders will be accepted for substitution for specified products or materials.

2. Contract Documents & Specifications

The following revisions shall be made to the original Contract Document and Specifications, dated May 1989 incorporated into the Project Manual:

**Item No.1** (Section 00100, 00200, 00300, 00400, 00500, 00600, 00700, 00800):

Delete these sections in the 1989 Contract Document & Specifications. These sections are superseded by same sections in the Project Manual.

**Item No.2** (Section 01000-4.5 Structural Tests and Inspections):

Delete page with May 18, 1989 requirements. Structural Testing and Inspection requirements superseded by current requirements under current, approved 2009 DSA Application # 110238

**Item No.3** (Section 01000-6.01000.2.5- Deductive Bid Items):

Delete: Entire section. There are no deductive bid items

**Item No.4** (Section 01000-7.100.25- Asbestos Sub Contractor):

Delete: Entire section.

**Item No.5** (Section 06100- Rough Carpentry):

Add: "Exterior and interior wood products shall be Forest Steward Certified (FSC) Certified. Plywood used in the building interior must be listed on the Collaborative for High Performance Schools (CHPS) website ([www.chps.net/manual/lem\\_table.htm](http://www.chps.net/manual/lem_table.htm)). Contractor shall provide submittal of product data to Architect for review and approval.

**Item No.6** (Section 07232-4.1- Insulation):

Add: Insulation shall be Formaldehyde-Free material. Johns-Manville or equal.

**Item No.7** (Section 07920- Sealants and Caulking):

Add: "07920-2.1.1.1- VOC Content of Interior Sealants: Provide interior sealants and sealant primers that Comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Sealants: 250g/L.
2. Sealants and Primers for Nonporous Substrates: 250 g/L.
3. Sealant Primers for Porous Substrates: 775 g/L.

**Item No.-8** (Section 08520- Aluminum Windows):

Delete: Section 08520-2.1.1 through 08520.2.1.1.7

Add: Torrance Aluminum, Series 2500 (AAP-AW65) Project-Out Window, dated 7/3/09 attached

**Item No.-9** (Section 08800.2.1):

Add: "d. Solarban 60 Low-E"

**Item No.10** (Section 09561- Gymnasium- Type hardwood Strip Flooring Systems):

Delete: Entire section.

**Item No.11** (Section 09653- Resilient Wall Base and Accessories):

Add: Section 09653- Resilient Wall Base and Accessories, dated 7/3/09 attached

**Item No.12** (Section 09654- Resilient Sheet Floor Coverings):

Add: Section 09654- Resilient Sheet Floor Coverings, dated 7/3/09 attached

RVUSD- Music Classroom  
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3. Drawings:

**Item No.1** (Sheet A6):

Delete: Deductive Alts.

Add: "one hundred-fifty (150) days"

**Item No.2** (Sheet A11- Interior Finish Schedule):

Room 101 & 102 shall include Linoleum Flooring as part of the Base Bid. There shall be no deductive Alternatives for interior finish items.

**Item No.3** (Sheet S4):

Delete Detail E.

**Item No.4** (Sheet L1):

Add note:" The extent of the landscape work does not include shed, or any landscape improvements Unless otherwise shown on Sheet A0.5"

END OF ADDENDUM #1

**Torrance Aluminum**  
**Series 2500 (AP-AW65) Project-Out Window**

Section 08520 – Aluminum Windows

**PART 1: GENERAL**

**1.01 WORK INCLUDED**

- A. The conditions of the contract and applicable sections of division 1 hereby form a part of this section.  
Provide all labor, materials, tools, equipment and services to furnish and install aluminum windows and related components as shown on drawings and specified herein.

**1.02 PERFORMANCE REQUIREMENTS**

A. General

1. Provide certified independent laboratory test reports in full accord with section 1.02 paragraph C below.
2. Windows and component structural tests shall equal or exceed "Voluntary guide specifications for Aluminum Architectural Windows" as published by AAMA/NWWDA 101 I.S. 2-97 unless more stringent requirements are specified.
3. Windows shall be designed to meet Thermal Performance as certified by an accredited NFRC test laboratory. Tests shall be in accordance with NFRC 102-2001 test procedure.

B. Test Units

1. Perform all tests unless otherwise noted on projects largest size window or, to equal or exceed requirements set forth in AAMA 101-97., Sect. 2.2.4.4.

C. Test Procedures

1. Thermal Transmittance Test
  - (a) Units shall achieve standardized U-factor of 0.50 Btu/hr.ft<sup>2</sup>.F when tested in accordance per 1.02.A.3.
2. Air Infiltration Test ( Perform before Water Test )
  - (a) Air Infiltration maximum 0.3 cfm per foot of crack length at 6.24 psf pressure differential when tested in accordance with ASTM E283-99.
3. Water Resistance Test
  - (a) No uncontrolled water leakage shall occur at 12.0 psf pressure differential with water rate 5 gallons/hr./sf. when tested in accordance with ASTM E331-00.
4. Uniform Load Deflection Test
  - (a) No glass breakage, permanent damage to fasteners, hardware parts, or damage to make window inoperable or deflection of any unsupported span (meeting rails, muntins, frames, mullions, etc.) in excess of L/175 at both a positive and negative load of 65.0 psf (\*design wind pressure) when tested in accord with ASTM E330-97
5. Uniform load structural test
  - (a) Unit to be tested at specified wind pressure, both positive and negative, acting normal to plane of wall in accord with ASTM E330-97.
  - (b) No Glass breakage, permanent damage to fasteners, hardware parts, or damage to make window inoperable or permanent deformation of any main frame or ventilator section in excess of 0.4% of it's span.
6. Horizontal and Vertical Concentrated Load Tests on Ventilator Latch Rail
  - (a) Deflection at point of load application maximum 0.062" when tested per 1.02, A.2.
7. Vertical Concentrated Load Test on Intermediate Frame Rails
  - (a) Deflection at point of load application maximum 0.070" when tested per 1.02, A.2.
8. Balance Arm load Test
  - (a) Balance Arms shall function normally without apparent damage after loads are removed, when tested per 1.02.A.

**1.03 SUBMITTALS**

A. Shop Drawings/ Samples

1. Shop drawings complete and full scale where practical showing construction and components, dimensions and details.
2. Samples of anodized aluminum finishes shall be submitted on 6" sections of aluminum as required.
3. Samples of painted aluminum finishes shall be submitted on manufacturer's standard paint chips.

B. Test Reports/ Calculations (Optional)

- C. Certified independent laboratory test reports verifying compliance with all test requirements of section 1.03, Paragraph C above.

**1.04 WARRANTY**

- A. Aluminum windows and related materials: One year warranty on materials and workmanship.
- B. Glass: Five year warranty of thermal and physical integrity of insulated glass units.
- C. Factory Glazing: when applicable

**PART 2: PRODUCTS**

**2.01 QUALITY ASSURANCE**

- A. Torrance Aluminum Series 2500 (AP-AW65) Project-Out Window , Perris, CA, Tel (951) 943-0430 are approved.
- B. Other manufacturers desiring approval to bid must furnish certified test reports indicating full compliance with section 1.02, Paragraphs A, B & C and all other requirements of this specification 30 days prior to bid date.
- C. Manufacturers shall have been engaged in the manufacture of aluminum windows of monumental grade not less than 10 years.
- D. Insulated Glass: ¼" clear, ½" air space, ¼" SolarBan 60 #3 surface, 5 year warrantec.

**2.02 MATERIALS**

- A. Aluminum windows and Components
  - 1. Extruded aluminum prime billet 6063T5, aluminum sheet 5005H34.
  - 2. Minimum principal window member wall thickness shall be 1/8".
  - 3. Minimum frame and vent depth front to back shall be 2 1/2".
  - 4. Receptor and Sub-sill installation.
- B. Hardware-General
  - 1. All steel components 300 series stainless steel (SS) i.e. strikes, fasteners, hold open arms, etc.
  - 2. All aluminum components shall be 6063T5 (T6).
  - 3. Locking handles and cases, white bronze.
- C. Weatherstrip
  - 1. Extruded bulb vinyl meeting ASTM C509-70

**2.03 FABRICATION**

- A. General
  - 1. Fabricate and shop assemble frame and sash members into complete windows under responsibility of one manufacturer.
  - 2. No bolts, screws or fastenings to impair independent frame movement.
  - 3. Provide thermal break by the pour & de-bridge method using solid urethane block.
- B. Projected Ventilator
  - 1. Miter all corners and mechanically stake over solid aluminum corner block minimum ¼" thick, set and sealed in epoxy leaving hairline joinery then seal weather-tight. Joinery methods must not discolor finish or be unsightly.
- C. Projected Frame
  - 1. Miter or cope all corners and mig weld or mortise and tenon each corner then seal weather-tight. Joinery methods must not discolor finish or be unsightly.
- D. Weatherstripping
  - 1. Two rows (both inner & outer overlap contacts) of bulb type extruded vinyl weatherstrip in extruded races about perimeter of operating sash.
  - 2. securely stake and join at corners.
- E. Glass Drainage
  - 1. Provision shall be made to insure that water will not accumulate and remain in contact with the perimeter areas of sealed insulating glass.
- F. Hardware
  - 1. Balance Arms
    - (a) Two stainless steel concealed four-bar adjustable friction hinges each ventilator meeting AAMA 904.1
  - 2. Locks
    - (a) Stainless steel construction locks, strikes and keepers for manual and/or custodial key operation to secure sash in closed position.
    - (b) Provide two locks at sill of project-out sash or head of project-in ventilator when dimension exceeds 48".

3. Egress (OPTIONAL)

- (a) Equip one window minimum in each room with locking handles and strikes suitable for hand operation to secure and/or release sash from closed position.
- (b) Hardware to meet provisions of the NFPA Life Safety Code 101.

4. Limit Stops

- (a) Provide special hold-open device (if sash height permits application) or an incorporated stop with the four-bar friction hinge to permit sash to open approximately 6" and automatically stop. Operation past this point by custodial key only. See drawing for locations to receive this hardware.
- (b) Hold-open devices utilizing spring type mechanisms not permitted.
- (c) Awning windows over path of travel shall be limited to 4" projection

5. Note: Other types of hardware are available. For information and details consult Torrance Aluminum Window Co.

G. Finish

- 1. Finish of all exposed areas of aluminum windows and components shall be (choose from below) done in accord with the appropriate AAMA Voluntary Guide Specification shown.

**ANODIZED FINISHES**

AA M12C22 A44 Medium Bronze .7 Mil, Class I

Color as selected by the Architect from manufacturer's standard colors. Special colors are available.  
For detailed specifications and other surface treatments and finishes, contact Torrance Aluminum Window Co.

**PART 3: EXECUTION**

**3.01 ERECTION**

- A. Install square, plumb and in true alignment and in accord with details and reviewed shop drawings. Surfaces free from dents, buckles, dimples, or other defects.
- B. Anchor frames and other items securely to continuous construction to result in a rigid installation and in accord with Required safety factors. Where anchorage involves other work, provide setting drawings for proper installation.
- C. Install hardware and adjust for proper operation. Seal metal to metal joints to prevent entrance of water except at points where frame members are designed to drain water to the exterior.
- D. At juncture between frames and adjacent materials, seal entire perimeter on both sides. Use Dow Corning 795 Sealant. Sealant and backing Materials shall be as specified in section 07900-Sealants.
- E. Protection of contact surfaces: Protect aluminum surfaces in contact with dissimilar metals or with incompatible Materials such as, concrete and cementitious materials, by painting contact surfaces with bituminous paint before installation or isolate with non-absorptive tape or gaskets.
- F. Expansion and contraction: Install aluminum work so as to avoid objectionable distortion or overstress of parts and Fastenings resulting from thermal expansion and contraction.
- G. Glazing
  - 1. Determine glass sizes and edge clearances by measuring actual openings.
  - 2. Set glass on glazing blocks to equally support the full glass height and prevent any give or fracture.
  - 3. Set glass with specified materials in accord with reviewed shop drawings and manufacturer's instructions.

**3.02 PROTECTION AND CLEANING**

- A. After installation, clean metal and glass surfaces, on both interior and exterior, of all mortar, paint and other contaminants. Use no abrasives. Use mild soap and water.
- B. After cleaning, protect all work against damage until date of Substantial Completion.

SECTION 09653

RESILIENT WALL BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
  - 1. Wall base.
  - 2. Stair accessories.
  - 3. Molding accessories.

1.2 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Samples: For each type of product indicated, in manufacturer's standard-size Samples but not less than 12 inches long, of each resilient product color, texture, and pattern required.
- C. Environmental Submittals:
  - 1. Product Data: Manufacturers' product data for adhesives, including printed statement of VOC content.

1.3 PROJECT CONDITIONS

- A. Maintain temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive floor tile during the following time periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 48 hours after installation.
- B. After postinstallation period, maintain temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
- C. Install resilient products after other finishing operations, including painting, have been completed.

1.4 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

**PART 2 - PRODUCTS**

**2.1 COLORS AND PATTERNS**

- A. Colors and Patterns: As specified in Division 9 Section "Interior Finish Schedule" and indicated on the Drawings.

**2.2 RESILIENT WALL BASE**

- A. Wall Base: ASTM F 1861.
  - 1. Basis-of-Design Product: The design for resilient wall base is based on products by Burke Mercer Flooring Products.
  - 2. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
    - a. Johnsonite.
    - b. Musson, R. C. Rubber Co.
    - c. Roppe Corporation.
    - d. Accepted equal.
- B. Type (Material Requirement): TS (rubber, vulcanized thermoset) or TP (rubber, thermoplastic).
- C. Group (Manufacturing Method): I (solid, homogeneous) or II (layered).
- D. Style:
  - 1. For Use with Resilient Sheet Floor Coverings: Cove (with top-set toe).
  - 2. For Use with Carpet Tile: Straight (toeless).
- E. Minimum Thickness: 0.125 inch.
- F. Height: 4 inches, unless otherwise indicated on the Drawings.
- G. Lengths: Coils in manufacturer's standard length.
- H. Outside Corners: Job formed.
- I. Inside Corners: Job formed.
- J. Surface: Smooth.

**2.3 RESILIENT STAIR ACCESSORIES**

- A. Resilient Stair Accessories:
  - 1. Basis-of-Design Product: The design for resilient stair accessories is based on products by Burke Mercer Flooring Products.
  - 2. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
    - a. Johnsonite.
    - b. Musson, R. C. Rubber Co.
    - c. Roppe Corporation.
    - d. Accepted equal.

- B. Material: Rubber, Composition A.
- C. Treads: FS RR-T-650.
  - 1. Surface Design: Type 1 design (smooth) or 2 design (designed).
    - a. Type 2 Design: One of the following, as selected:
      - 1) Raised-disc pattern.
      - 2) Raised-square pattern.
      - 3) Raised-chevron pattern.
      - 4) Raised-diamond pattern.
      - 5) Raised-rib pattern.
      - 6) Raised-rib pattern with abrasive strips.
  - 2. Nosing Style: Square, adjustable to cover angles between 60 and 90 degrees.
  - 3. Nosing Height: As indicated.
  - 4. Thickness: 0.125 inch.
  - 5. Size: Lengths and depths to fit each stair tread in one piece.
- D. Risers: Smooth, flat, toeless, height and length to cover risers; produced by same manufacturer as treads and recommended by manufacturer for installation with treads.
  - 1. Thickness: 0.125 inch.
- E. Stringers: Of same thickness as risers, height and length after cutting to fit risers and treads and to cover stair stringers; produced by same manufacturer as treads and recommended by manufacturer for installation with treads.
- F. Fire-Test-Response Characteristics:
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm per ASTM E 648.

#### 2.4 RESILIENT MOLDING ACCESSORIES

- A. Description: Nosings, edges, reducer strips, joiners, or other shapes as indicated or as required.
  - 1. Basis-of-Design Products: The design for resilient molding accessories is based on products by Burke Mercer Flooring Products.
  - 2. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
    - a. Johnsonite.
    - b. Musson, R. C. Rubber Co.
    - c. Roppe Corporation.
    - d. Accepted equal.
- B. Material: Rubber.
- C. Profile and Dimensions: As indicated or as required.

#### 2.5 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic cement based formulation provided or approved by resilient product manufacturers for applications indicated.

- B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
  - 1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
    - a. Cove Base Adhesives: 50 g/L.
    - b. Rubber Floor Adhesives: 60 g/L.
- C. Stair-Tread-Nose Filler: Two-part epoxy compound recommended by resilient tread manufacturer to fill nosing substrates that do not conform to tread contours.

### PART 3 - EXECUTION

#### 3.1 PREPARATION

- A. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of resilient products.
- B. Concrete Substrates for Stair Accessories: Prepare according to ASTM F 710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
  - 3. Moisture Testing:
    - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
    - b. Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
- C. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
- D. Use trowelable leveling and patching compound to fill cracks, holes, and depressions in substrates.
- E. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
  - 1. Do not install resilient products until they are the same temperature as the space where they are to be installed.
- F. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 RESILIENT WALL BASE INSTALLATION

- A. Apply wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

- B. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
- C. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- D. Do not stretch wall base during installation.
- E. Job-Formed Corners:
  - 1. Outside Corners: Use straight pieces of maximum lengths possible. Form without producing discoloration (whitening) at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.
  - 2. Inside Corners: Use straight pieces of maximum lengths possible. Form by cutting an inverted V-shaped notch in toe of wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.

### 3.3 RESILIENT ACCESSORY INSTALLATION

- A. Resilient Stair Accessories:
  - 1. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
  - 2. Tightly adhere to substrates throughout length of each piece.
- B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor coverings that would otherwise be exposed.

### 3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after completing resilient product installation:
  - 1. Remove adhesive and other blemishes from exposed surfaces.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.
    - a. Do not wash surfaces until after time period recommended by manufacturer.
- B. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by manufacturer.

END OF SECTION 09653