EL MONTE UNION HIGH SCHOOL DISTRICT

Purchasing Department

3537 JOHNSON AVENUE, EL MONTE, CA 91731

Phone: (626) 444-9005

Email: purchasing@emuhsd.org

November 20, 2023

TO	:	All Bidders
FROM	:	El Monte Union High School District
BID #	:	Bid No. 2023-24(B5)
PROJECT	:	Rosemead High School Gymnasium HVAC Project
SUBJECT	:	Addendum No. 2

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

REVISIONS/CLARIFICATIONS TO BID DOCUMENTS

Bid due date has been changed to**:** ***Tuesday, November 28, 2023, at 1:00 PM***

All addendum items refer to the plans and specifications unless specifically noted otherwise.

PART A - BIDDING AND CONTRACT REQUIREMENTS

No changes to Part A – Bidding and Contract Requirements are part of this Addendum

PART B – PROPOSERS' CLARIFICATION REQUESTS

AD2-B-1: *Question:* Please provide specification for the Ladder & Roof Hatch
Response: Ladder specifications provided per this addendum 05 5133-Metal Ladders. Roof Hatch specifications per bid specifications 07 7100 Roof Specialties.

AD2-B-2: *Question:* What is the existing fire alarm system? contact information for the company monitoring the fire alarm system.
Response: Notifier. FIRE ALARM CENTRAL STATION INFORMATION

APPLE VALLEY COMMUNICATIONS INC
21845 CA-18, Apple Valley, CA 92307
TEL (760) 247-2668
LICENCE# 542642
UL ID#S7375

AD2-B-3: *Question:* Should the fire alarm shut down the unit in case of activation of the fire alarm?
Response: Yes, See reference note 3, sheet E331

AD2-B-4: *Question:* What is the existing BMS system?
Response: Units are to be controlled by new Pelican wireless thermostats as indicated on schedule. There is no existing BMS.

AD2-B-5: *Question:* Do the units work stand-alone with the thermostat or are the units controlled by BMS?
Response: Units are wired to and controlled by new Pelican wireless thermostats.
AD2-B-6: *Question:* Please provide some photos of the existing skylight since we do not have access to the roof.
Response: See attached photos per this addendum.

AD2-B-7: *Question:* Please confirm if air balance is required.
Response: Confirmed. Air balance indicated total supply air, return air, and outside air is required for all new ac units.

PART C – PROPOSERS' SUBSTITUTION REQUESTS

No changes to Part C – Proposers' Substitution Requests are part of this Addendum

PART D – SPECIFICATIONS

AD2-D-1: Specifications 05 5133-Metal Ladders has been added and is included as part of this Addendum:

AD2-D-1: Specifications 05 5133-Metal Ladders has been added and is included as part of this Addendum:

PART E – DRAWINGS

No changes to Part E – Drawings are part of this Addendum

PART F – ALTERNATES

No changes to Part F – Alternates are part of this Addendum

PART G – ALLOWANCES

No changes to Part G – Allowances are part of this Addendum

PART H – MISCELLANEOUS

AD1-H-1: Existing roof photos, is included as part of this Addendum:

ATTACHMENTS

02 Addendum No 2 – List of Specifications
05 5133-Metal Ladders

03 Addendum No 2 – Roof Photos

END OF ADDENDUM NO. 2

SECTION 00010

TABLE OF CONTENTS

DIVISION 00 – INTRODUCTORY REQUIREMENTS Number of Pages

00 0001 Project Manual Cover Front....02
00 0002 Title Page....02
00 0003 Project Directory List....02
00 0004 Stamp Page....02
000010 Table of Contents....04

DIVISION 01 - GENERAL REQUIREMENTS

01 1100 Summary of Work....04
01 2513 Product Procedures For Substitution And “or Equal”....02
01 2613 Request for Clarification....02
01 2973 Schedule of Values....04
01 2976 Progress Payment Procedures....04
01 3113 Project Coordination....04
01 3119 Project Meetings....06
01 3129 Partnering....04
01 3216 Construction Schedule Small Projects....10
01 3229 Project Forms....06
01 3300 Submittal Procedures....08
01 3546 Indoor Air Quality Procedures....12
01 4523 Testing Inspection....14
01 5000 Construction Facilities Temporary Controls....20
01 6000 Product Requirements....06
01 7123 Field Engineering....06
01 7329 Cutting Patching....06
01 7700 Contract Close Out....06
01 7836 Warranties....03
01 7900 Maintenance-Operations Staff Demonstration and Training....10

DIVISION 02 - SITE WORK

02 2600 Abatement of Haz Materials....04
02 4116 Demolition....04
02 8213 Asbestos Abatement Asbestos Related Disturbance....26
02 8219 Asbestos Abatement Non Friable Roofing Material....10
02 8333 Lead Abatement Lead Related Const Work....30

DIVISION 03 - CONCRETE

03 0130 Maintenance of Cast-In-Place Concrete....07
03 1000 Concrete Forming Accessories....06
03 2000 Concrete Reinforcing....04
03 3000 Cast in Place Concrete....18

DIVISION 04 – MASONRY

04 0000 Not Used……00

DIVISION 05 - METALS

05 0513 Hot-Dip Galvanizing 06
05 1200 Structural Steel Framing 14
05 5000 Metal Fabrications 08
05 5133 Metal Ladders 05

DIVISION 06 - WOOD AND PLASTICS

06 0000 Not Used 00

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07 5419 Adhered Thermoplastic (PVC) Feltback Membrane Roofing 14
07 6000 Flashing and Sheet Metal 06
07 7100 Roof Specialties 04
07 9200 Joint Sealants 08

DIVISION 08 - DOORS AND WINDOWS

08 6223 Tubular Skylight 20

DIVISION 09 - FINISHES

09 2900 Gypsum Board 08
09 9000 Painting Coating 10
09 9013 Painting Existing 28

DIVISION 10 - SPECIALTIES

10 0000 Not Used 00

DIVISION 11 – EQUIPMENT

11 0000 Not Used 00

DIVISION 12 - FURNISHINGS

12 0000 Not Used 00

DIVISION 13 - SPECIAL CONSTRUCTION

13 0000 Not Used 00

DIVISION 22 – PLUMBING

22 0529 Hangers and Supports for Plumbing Piping and Equipment 18
22 0719 Plumbing Piping Insulation 29
22 1616 Condensate Drain Piping 16

DIVISION 23 – MECHANICAL

23 0529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT	16
23 0553	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT	08
23 0593	TESTING, ADJUSTING, AND BALANCING FOR HVAC	32
23 0719	HVAC PIPING INSULATION	30
23 0922	CLIMATE MANAGEMENT CONTROL FOR HVAC	16
23 2300	REFRIGERANT PIPING	08
23 3113	METAL DUCTS	28
23 3300	AIR DUCT ACCESSORIES	26
23 3423	HVAC POWER VENTILATORS	12
23 3713	DIFFUSERS, REGISTERS, AND GRILLES	10
23 8126	SPLIT SYSTEM AIR CONDITIONERS	14

DIVISION 26 - ELECTRICAL

26 0500	COMMON WORK RESULTS FOR ELECTRICAL	20
26 0519	LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	06
26 0526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	10
26 0533	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	12
26 0543	UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS	14
26 0544	SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING	06
26 0550	BASIC ELECTRICAL MATERIALS AND METHODS	08
26 0553	IDENTIFICATION FOR ELECTRICAL SYSTEMS	16
26 2416	PANELBOARDS	12
26 2726	Wiring Devices	08
26 9600.D	TESTING REQUIREMENTS	06

DIVISION 27 – COMMUNICATIONS

27 0000	Not Used	00

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

28 3100	Fire Alarm Systems	4

DIVISION 31 – EARTHWORK

31 2323	Excavation Fill Utilities	06

DIVISION 32 - EXTERIOR IMPROVEMENTS

32 0113	Rolled Slurry Seal Existing Pavement	02
32 0117	Asphalt Pavement Repair	04
32 1216	Asphalt Paving	06
32 1236	Seal Bituminous Surfacing	04
32 1313	Site Concrete Work	10
32 1723	Pavement Markings	02

END OF TABLE OF CONTENTS

SECTION 05 5133
ALUMINUM LADDERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Aluminum access ladders.

B. Aluminum ship's ladders.

C. Aluminum cage ladders.

1.2 RELATED SECTIONS

A. Section 05500 – Metal Fabrications: Fasteners and installation requirements used to attach ladders to structure.

B. Section 14200 – Elevators: For pit ladders.

C. Section 15050 – Basic Electrical Materials and Methods: For electrical grounding of ladders.

1.3 REFERENCES

A. AA – Aluminum Association.

B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

D. OSHA 1910.27 – Fixed Ladders.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product.

C. Shop Drawings:

1. Detail fabrication and erection of each ladder indicated. Include plans, elevations, sections, and details of metal fabrications and their connections.

2. Provide templates for anchors and bolts specified for installation under other Sections.

3. Provide reaction loads for each hanger and bracket.

D. Qualification Data:

1. Refer to Quality Assurance provisions for submittal requirements evidencing experience, certifications and resources.

E. Selection Samples: For each finish specified, two complete sets of color chips representing manufacturer's full range of available colors.

F. Verification Samples: For each finish specified, two samples, minimum size 6 inches (150 mm) square, represent actual product color.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm experienced in producing aluminum metal ladders similar to those indicated for this Project.

1. Record of successful in-service performance.

2. Sufficient production capacity to produce required units.

3. Professional engineering competent in design and structural analysis to fabricate ladders in compliance with industry standards and local codes.

B. Installer Qualifications: Competent and experienced firm capable of selecting fasteners and installing ladders to attain designed operational and structural performance.

C. Product Qualification: Product design shall comply with OSHA 1910.27 minimum standards for ladders.

D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

1. Install ladder in area designated by Architect.

2. Do not proceed with remaining work until workmanship and installation are approved by Architect.

3. Rework mock-up as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

1.7 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions by field measurement before fabrication.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, indicate established dimensions on shop drawing submittal and proceed with fabrication.

1.8 WARRANTY

A. A. Manufacturer has responsibility for an extended Corrective Period for work of this Section for a period of 5 years commencing on the shipment date of the product against all the conditions indicated below, and when notified in writing from Owner, manufacturer shall promptly and without inconvenience and cost to Owner correct said deficiencies.

1. Defects in materials and workmanship.

2. Deterioration of material and surface performance below minimum OSHA standards as certified by independent third party testing laboratory. Ordinary wear and tear, unusual abuse or neglect excepted.

3. Within the warranty period, the manufacturer shall, at its option, repair, replace, or refund the purchase price of defective ladder.

B. Manufacturer shall be notified immediately of defective products, and be given a reasonable opportunity to inspect the goods prior to return. Manufacturer will not assume responsibility, or compensation, for unauthorized repairs or labor. Manufacturer makes no other warranty, expressed or implied, to the merchantability, fitness for a particular purpose, design, sale, installation, or use, of the ladder; and shall not be liable for incidental or consequential damages, losses of or expenses, resulting from the use of ladder products.

1.9 EXTRA MATERIALS

A. Furnish touchup kit for each type and color of paint finish provided.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: O'Keeffe's, Inc.; 100 N Hill Drive, Suite 12, Brisbane, CA 94005. Toll Free Tel: (888) 653-3333. Tel: (415) 824-4900. Fax: (415) 824-5900. Email: info@okeeffes.com. Web: http://www.okeeffes.com.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 APPLICATIONS/SCOPE

2.3 FINISHES

A. Mill finish. As extruded.

B. Clear Anodic Finish: AA-M10C22A41 Mechanical finish as fabricated. Architectural Class I, clear coating 0.018 mm or thicker.

C. Paint. Urethane over chemically pretreated substrate.

1. Fire Red (RAL 2002).
2. Alert Orange (RAL 2003).
3. Warning Blue (RAL 5005).
4. Caution Yellow (RAL 1018).
5. Safety Green (RAL 6001).
6. As scheduled on drawings.

2.4 MATERIALS

A. Aluminum Sheet: Alloy 5005-H34 to comply with ASTM B209.

B. Aluminum Extrusions: Alloy 6063-T6 to comply with ASTM B221.

2.5 FABRICATION

A. Rungs: Not less than 1-1/4 inches (32 mm) in section and 18–3/8 inches (467mm) long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.

1. Rungs shall withstand a 1,500 pound (454 kg) load without deformation or failure.

B. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.

C. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces.

D. Ship Ladders: Not less than 1-1/4 inches (32mm) high, 4-1/8 inch (105 mm) deep and 2 feet (610 mm) wide; tread spacing shall be 1 foot (305 mm) on center. Handrails shall be aluminum pipe, not less than 1-1/2 inches (38 mm) in diameter with hemispheric end caps.

E. Walk-Through Rail and Roof Rail Extension: Not less than 3 feet 6 inches (1067 mm) above the landing and shall be fitted with deeply serrated, square, tubular grab rails.

F. Landing Platform: 1-1/2 inches (38 mm) or greater diameter, tubular aluminum guardrails and decks of serrated aluminum treads.

G. Security Doors: Formed 1/8 inch (3 mm) thick aluminum sheet. Security panels shall extend on both sides, perpendicular to the door face, to within 2 inches (51 mm) of the wall. Security door shall be furnished with continuous aluminum piano hinge and heavy duty forged steel locking hasps.

H. Ship Ladder Seismic Bottom Support: Manufacturer's standard; two isolation bearings per stringer.

I. Ladder Safety Post: Retractable hand hold and tie off.

J. Rail and Harness Fall Arrest System: Supplied where specified as alternate to safety cage and landing platforms, in accordance with OSHA regulation 1910.27; permanently mounted to ladder rungs and complete with necessary components.

K. Safety Cages:

1. Fabricate ladder safety cages to comply with authority having jurisdiction. Assemble by welding. Spacing of primary hoops, secondary hoops and vertical bars shall not exceed that required by code.

2. Safety cage hoops and vertical bars: 3/16 inch (5 mm) by 2 inches (51 mm) aluminum bar.

PART 3 EXECUTION

3.1 EXAMINATION

A. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.

B. Do not begin installation until supporting structure is complete and ladder installation will not interfere with supporting structure work.

C. If supporting structure is the responsibility of another installer, notify Architect of unsatisfactory supporting work before proceeding.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

3.3 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

RESPECTFUL
RESILIENT
HOME OF THE PANTHER

RESPECTFUL
RESILIENT

ECOLOGY

ECOLOGY

HOME OF THE PANTHERS

ECOLOGY

HOME OF THE PANTHERS

HOME OF THE PANTHERS

HOME OF THE

Mobil

Mobil

Mobil

HOME OF THE PANTHERS

HOME OF THE PANTHERS

Mobil

Mobil