



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DEFK10022

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
BUYER 32
304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DIV ENGINEERING & FACILITIES
CAMP DAWSON ARMY TRAINING SITE
240 ARMY ROAD

KINGWOOD, WV
26537-1077 304-329-4417

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/16/2010				

BID OPENING DATE: **08/31/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	<p>*****ADDENDUM NO. 3*****</p> <p>ADDENDUM ISSUED FOR THE VOLKSTONE LIVE FIRE SHOOT HOUSE PROJECT TO DISTRIBUTE THE VENDOR Q/A SUBMITTED AFTER THE PRE-BID MEETING AND THE REVISED SPECIFICATIONS PER THE ATTACHED.</p> <p>BID OPENING DATE AND TIME REMAIN 08/31/2010 AT 1:30 PM.</p> <p>*****NO OTHER CHANGES*****</p>					
0001	1	JB		968-20		
	BUILDING CONSTRUCTION					
***** THIS IS THE END OF RFQ DEFK10022 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

ADDENDUM NO. 3

**WVWANG LIVE FIRE EXERCISE SHOOTHOUSE
 PHASE 2 – SUPPORTING FACILITIES CONSTRUCTION**
ADDENDUM ITEMS

The following are items of clarification to questions submitted by responding Bidders for the Live Fire Exercise Shoot House Phase 2 – Supporting Facilities Construction Project at the West Virginia Army National Guard, Volkstone Training Area, in Kingwood, WV. These clarifications shall be included in each Contractor's bid and shall become a part of the Construction Contract.

1. Detail 2 & 3 on A301 shows 5/8" drywall on top of trusses (under plywood sheathing). Is this type X drywall, or an exterior gypsum sheathing?

The 5/8" type 'X' Gypsum board base provides a smooth surface for adhering the membrane roof material to the substrate and is installed over the 5/8" plywood deck. The contractor shall provide an exterior, (type 'X') gypsum sheathing product similar to "GlassRoc" Type X by Certainteed (or equal), for its density and weather resistance characteristics.

2. Drawings call for exterior walls (types 1 and 1A) to be 3-5/8" x 20ga. Cold Formed Metal Specifications call for metal gauge to be at least 18ga. Which is correct?

The Specifications are correct. Provide 18 Ga. cold formed metal studs for exterior walls.

3. Do the exterior load bearing walls need to be engineered?

No.

4. I see no specification on alternates (ABI-2). Are there any specifications on the bulletproof wall (note 1 on A403) or the bulletproof ceiling tiles (notes 5 & 6 on A403)?

Specifications for the Live Fire Exercise Shoot House Equipment are in the Specifications Book after Section 10801-Toilet and Bath Accessories, and before Section 15010-Basic Mechanical Requirements.

5. Are the fan coil units ran off of the programmable thermostat only, or is their a ddc system that is going to control them and if so who is the control contractor for the base?

Stand alone programmable T-stats.

6. Exhaust fan 5, what are we tying the duct into at the ceiling level, it shows the 14" drops but not what they are tying into or who is supplying it?

The 14" diameter drops transition to the openings in the LFSH ceiling. Attach the duct to the shoot house ceiling per mechanical section 1 on sheet M-201 and SMACNA standards as referenced in spec section 15810. Refer to sheet key note 5 on architectural sheet A-403. Coordinate with shoot house provider.

7. Specification Section 08520 Aluminum Windows, 1.05 A. 2. C: 20 year finish warranty standard warranty for anodized is 3 years, please clarify.

Refer to attached revised Spec Section 08520 - Aluminum Windows.

8. Specification Section 08520 Aluminum Windows, 2.02 I: Windborne debris resistance is for a hurricane window, window specified is not. Please clarify.

Refer to attached revised Spec Section 08520 - Aluminum Windows.

9. Specification Section 08800
 1. Insulated glass make up is not provided. Please clarify.

Refer to attached revised Spec Section 08520 - Aluminum Windows for insulated glass specification.

2. Reflective, coated vision glass works in reverse when light in room is brighter than outside, is this glass required in windows?

Reflective, coated, vision glass is required only in interior window between Classroom 110 and AAR Control room 112 in AAR building.

3. Self cleaning glass only works if glass is in direct sunlight most of the day. Please clarify with insulating glass make up.

Delete references to self-cleaning glass in Section 08800 - Glazing. Refer to attached revised Spec Section 08520 – Aluminum Windows for information on insulated glass.

10. Delete Spec Section 08840 – Plastic Glazing and all references to 1/4” Polycarbonate glazing on the Drawings. Polycarbonate glazing is not required. Refer to revised Section 08520 – Aluminum Windows and Section 08800 – Glazing, for all glazing required in this Contract.
11. Request for Substitution for TRACO windows in lieu of window specified shall be based on requirements included in Spec Section 08520 – Aluminum Windows (Revised 13 August 2010).

END OF ADDENDUM

SECTION 08520 - ALUMINUM WINDOWS (Revised 13 August 2010)

PART 1 GENERAL

1.01 Work Included

- A. Furnish and install aluminum architectural windows complete with hardware and related components as shown on drawings and specified in this section.
 - 1. All windows shall be HC50 commercial grade Double Hung windows.
- B. Glass and Glazing
 - 1. All units shall be factory glazed according to 2.01 E of this specification.
- C. Single Source Requirement
 - 1. All products listed in Section 2.01 shall be by the same manufacturer.

1.02 Performance Requirements

- A. Windows shall conform to all AAMA/NWWDA 101/L.S.2 - 97 requirements for the window type referenced in 1.01.A. In addition, the following specific performance requirements shall be met.
 - 1. Air Infiltration Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 283 at a static air pressure difference of 1.56 psf (75 Pa).
 - b. Air infiltration shall not exceed .10 cfm/SF (.50 l/s•m²) of unit.
 - 2. Water Resistance Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 331/ASTM E 547 at a static air pressure difference of 12.0 psf (575 Pa).
 - b. There shall be no uncontrolled water leakage.
 - 3. Uniform Load Deflection Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 330 at a static air pressure difference of 50.0 psf (2394 Pa), positive and negative pressure.
 - b. No member shall deflect over L/175 of its span.
 - 4. Uniform Load Structural Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 330 at a static air pressure difference of 75.0 psf (3591 Pa), both positive and negative.
 - b. At conclusion of test there shall be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms, nor any other damage that would cause the window to be inoperable.
 - 5. Forced Entry Resistance
 - a. Windows shall be tested in accordance to ASTM F 588 or AAMA 1302.5 and meet the requirements of performance level 10.
 - 6. Condensation Resistance Test (CRF)
 - a. With ventilators closed and locked, test unit in accordance with AAMA 1503.1.
 - b. Condensation Resistance Factor (CRF) shall not be less than 51 (frame) and 59 (glass) when glazed with 1" (25 mm) insulated – 1/4" (6 mm) clear, 1/2" (12 mm) air, 1/4" (6 mm) clear low emissivity glass
 - 7. Thermal Transmittance Test (Conductive U-Value)
 - a. With ventilators closed and locked, test unit in accordance with AAMA 1503.1.
 - b. Conductive thermal transmittance (U-Value) shall not be more than 0.56 BTU/hr•ft²•°F (3.17 W/m²•K) when glazed with 1" (25 mm) insulated – 1/4" (6 mm) clear, 1/2" (12 mm) air, 1/4" (6 mm) clear low emissivity glass.

8. Thermal Transmittance Test (Conductive U-Value)
 - a. With ventilators closed and locked, test unit in accordance with NFRC-102.
 - b. Conductive thermal transmittance (U-Value) shall not be more than 0.52 BTU/hr•ft²•°F (2.95 W/m²•K) when glazed with 1" (25 mm) insulated – 1/4" (6 mm) clear, 1/2" (12 mm) air, 1/4" (6 mm) clear low emissivity glass.
- B. Project Wind Loads
 1. The system shall be designed to withstand the following loads normal to the plane of the wall:
 - a. Positive pressure of 50 psf at non-corner zones.
 - b. Negative pressure of 50 psf at non-corner zones.
 - c. Negative pressure of 75 psf at corner zones.

1.03 Quality Assurance

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.02.
- B. Test reports shall be accompanied by the window manufacturer's letter of certification, stating the tested window meets or exceeds the referenced criteria for the appropriate AAMA/NWDA 101/I.S.2 - 97 window type.

1.04 Submittals

- A. Contractor shall submit shop drawings; furnish samples, test reports, and warranties.
 1. Samples of materials shall be provided without cost to owner, i.e., metal, glass, fasteners, anchors, frame sections, mullion section, corner section, etc.

1.05 Warranties

- A. Total Window System
 1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total window installation which includes that of the windows, hardware, glass (including insulated units), glazing, anchorage and setting system, sealing, flashing, etc., as it relates to air, water, and structural adequacy as called for in the specifications and approved shop drawings.
 2. Any deficiencies due to such elements not meeting the specifications shall be corrected by the responsible contractor at their expense during the warranty period.
- B. Material and Workmanship
 1. Per AAMA standard 601, provide written guarantee against defects in materials and workmanship, including anodic finish.
 2. Warranty period shall be for 5 years from the date of substantial completion.
- C. Glass
 1. Provide written warranty for insulated glass units, that they will be free from obstruction of vision as a result of dust or film formation on the internal glass surfaces caused by failure of the hermetic seal due to defects in material and workmanship.
 2. Warranty period shall be for 10 (ten) years.

PART 2 PRODUCTS

2.01 Materials

A. Aluminum

1. Extruded aluminum shall be 6063-T5 alloy and tempered.

B. Hardware

1. Sweep latches shall be of white bronze with a US25D brushed finish.
2. An extruded aluminum spring catch shall be provided at the head of the windows to securely hold the top sash in position.
3. An extruded aluminum spring catch shall be provided at the sill of the lower sash.
4. Windows with spring latches shall also have standard sweep latches at the meeting rail.

C. Balances

Class 1, Block & Tackle

1. Balances shall be of appropriate size and capacity to hold sash in position in accordance with AAMA 101, Section 2.2.1.3.2 and AAMA 902, Section 8.1.
2. Balances shall be tested in accordance with AAMA 902, "Voluntary Specification for Sash Balances".
3. Balances shall meet all minimum AAMA 902 Class 1 requirements with a minimum .70 Manually Applied Force ratio (MAF).

D. Weather-Strip

1. All primary weather-strip shall be FIN-SEAL[®] or equal.

E. Glass

1. Insulated, laminated glass shall be ASTM E774, Dual Seal, ANSI Z97.1, or CPSC 16 CRF 1201, consisting of 1/4" laminated glass exterior pane, 1/2" air space, and 1/4" clear, tempered glass interior pane. Laminated panes shall consist of 1/8" clear glass with .060" PVB interlayer and 1/8" clear, heat strengthened glass. Outboard glass ply of the laminated pane shall be heat strengthened.

F. Thermal Barrier

1. All exterior aluminum shall be separated from interior aluminum by a rigid, structural thermal barrier. For purposes of this specification, a structural thermal barrier is defined as a system that shall transfer shear during bending and, therefore, promote composite action between the exterior and interior extrusions.
2. Sills are thermally broken with 2 thermal struts, consisting of glass reinforced polyamide nylon, mechanically crimped in raceways extruded in the exterior and interior extrusions. All other frames and sash are thermally broken using the latest technology in two-part, high-density polyurethane. A nonstructural thermal barrier is unacceptable.

2.02 Fabrication

A. General

1. All aluminum frame and vent extrusions shall have a minimum wall thickness of .080" (2 mm). Frame sill members shall have a minimum wall thickness of .094" (2.3 mm).
2. Mechanical fasteners, welded components, and hardware items shall not bridge thermal barriers.
3. Depth of frame shall not be less than 3 7/8" (98 mm).

B. Frame

1. Frame components shall be mechanically fastened.

C. Sash

1. All sash extrusions shall have a minimum wall thickness of .080" (2 mm).
2. All horizontal sash extrusions shall be tubular.
3. Corner connections shall be mechanically fastened.

D. Screens

1. Screen frames shall be extruded aluminum tubular framing sections and cross braces, roll formed from aluminum sheet, complying with SMA 1004 or SMA 1201. Fabricate frames with mitered or coped joints or corner extrusions, concealed fasteners, and removable PVC spline/anchor concealing edge of frame.
2. Aluminum wire fabric shall be 18-by-16 (1.1-by-1.3-mm) mesh of 0.011-inch- (0.28-mm-) diameter, coated aluminum wire, finish to be charcoal gray.
3. Screen mounting holes in the window frame shall be factory drilled.

E. Glazing

1. All units shall be glazed with the manufacturer's standard sealant process provided the glass is held in place by a removable, extruded aluminum, glazing bead. The glazing bead must be isolated from the glazing material by a gasket.

F. Finish

1. Anodic
 - a. Finish all exposed areas of aluminum windows and components with electrolytically deposited color in accordance with Aluminum Association Designation AA-M10-C22-A-41, Architectural Class 1. Color shall be clear anodized.

PART 3 EXECUTION

3.01 Inspection

A. Job Conditions

1. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface, and are in accordance with approved shop drawings.

3.02 Installation

- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.
- B. Plumb and align window faces in a single plane for each wall plane, and erect windows and materials square and true. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.
- C. Adjust windows for proper operation after installation.
- D. Furnish and apply sealants to provide a weather tight installation at all joints and intersections and at opening perimeters. Wipe off excess material and leave all exposed surfaces and joints clean and smooth.

3.03 Anchorage

- A. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.

3.04 Protection and Cleaning

- A. After completion of window installation, windows shall be inspected, adjusted, put into working order and left clean, free of labels, dirt, etc. Protection from this point shall be the responsibility of the general contractor.

END OF SECTION