



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

# Solicitation

NUMBER
DEFK13007

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE 304-558-2544

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

SHIP TO

DIV ENGINEERING & FACILITIES  
 ARMORY BOARD SECTION  
 1707 COONSKIN DRIVE  
 CHARLESTON, WV  
 25311-1099 304-341-6368

DATE PRINTED
02/05/2013

BID OPENING DATE: 02/14/2013 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 4		
				SEE ATTACHED PAGES.		
				END OF ADDENDUM NO. 4		
0001	1	JB		968-20		
				BUILDING CONSTRUCTION		
***** THIS IS THE END OF RFQ DEFK13007 ***** TOTAL:						

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

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

**SOLICITATION NUMBER: DEFK13007**  
**Addendum Number: 4**

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The purpose of this addendum is to modify the solicitation identified as DEFK13007 ("Solicitation") to reflect the change(s) identified and described below.

**Applicable Addendum Category:**

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

**Description of Modification to Solicitation:** To provide the Prefabricated Structures specifications (Pages 13 34 23 -1 through 13 34 23 -5) inadvertently omitted from the bid documents. The bid opening has moved from 02/07/2013 to 02/14/2013.

**Additional Documentation:** Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

**Terms and Conditions:**

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

**SECTION 13 34 23**  
**PREFABRICATED STRUCTURES**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section includes prefabricated steel control booths.
- B. Related Sections:
1. Division 03 Section "Cast-in-Place Concrete" for installing anchor bolts.
  2. Division 05 Section "Metal Fabrications" for pipe bollards to protect control booths.

**1.3 PERFORMANCE REQUIREMENTS**

- A. Structural Performance: Control booths shall withstand the effects of gravity loads as well as loads and stresses as indicated on structural drawings and according to ASCE/SEI 7.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

**1.4 SUBMITTALS**

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for control booths.
- B. Shop Drawings: For control booths. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples for Initial Selection: For control booths with factory-applied color finishes.
- D. Samples for Verification: For exposed finishes, in manufacturer's standard sizes.
- E. Delegated-Design Submittal: For control booths indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- F. Welding certificates.

- G. Maintenance Data: For control booths to include in maintenance manuals.
- H. Warranty: Sample of special warranty.

#### 1.5 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to the following:
  - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
  - 2. AWS D1.3, "Structural Welding Code - Sheet Steel."
- B. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Safety Glazing Products: Category II materials complying with testing requirements in 16 CFR 1201.
  - 1. Subject to compliance with requirements, obtain safety glazing products permanently marked with certification label of SGCC or another certification agency acceptable to authorities having jurisdiction.
- E. Preinstallation Conference: Conduct conference at Project site.

#### 1.6 COORDINATION

- A. Coordinate installation of anchorages for control booths. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

#### 1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace wall panels that fail in materials or workmanship within specified warranty period.
  - 1. Warranty Period: Five years from date of Substantial Completion.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, commercial quality, G90 coating designation; mill phosphatized.
- B. Galvanized, Rolled Steel Tread Plate: ASTM A 786/A 786M, rolled from steel plate complying with ASTM A 572/A 572M, Grade 55; hot-dip galvanized according to ASTM A 123/A 123M.

- C. Steel Structural Tubing: ASTM A 500, Grade B.
- D. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- E. Steel Mechanical Tubing: ASTM A 513, welded steel mechanical tubing.
- F. Zinc-Coated (Galvanized) Steel: Hot-dip galvanized according to ASTM A 123/A 123M.
- G. Tinted Tempered Float Glass: ASTM C 1048, Kind FT, Condition A, Type I, Class 1, and Quality q3.
- H. Ballistics-Resistant Glazing: Glazing material shall comply with applicable ASTM F1233, NIL 0108.01 or UL 752 Standards for bullet resistance level 3.
- I. Anchorages: Anchor bolts; hot-dip galvanized according to ASTM A 153/A 153M or ASTM F 2329.

## 2.2 PREFABRICATED CONTROL BOOTHS, GENERAL

- A. General: Provide a complete, integrated set of mutually dependent components that form a completely assembled, prefabricated control booth, ready for installation on Project site.
  - 1. Building Style: Configured with dimensions as indicated on Drawings.
  - 2. Doors: Sliding doors on both sides.
- B. Frame Finish: Painted Galvanized Steel – Color as selected by Architect..
  - 1. Provide insect screens for each operable window.
  - 2. Provide galvanized-steel security screens for each window.
  - 3. Corner Shape: Round.
- C. Work Counters: Full width of control booth, reinforced; with 16-inch- wide drawer below each counter, and an access opening for electrical cords at each rear corner of counter.
  - 1. Material: 0.078-inch- thick, stainless-steel sheet.
  - 2. Depth: 22 inches.
- D. Electrical Power Service: 125-A, 120/240-V ac, 8-pole, single-phase, three-wire load center, with no fewer than four open circuits; located under one end of work counter. Run copper wiring in 1/2-inch EMT conduit.
  - 1. Provide three 120-V ground-fault circuit interrupter (GFCI) power receptacle(s).
- E. Lighting Fixtures: Two ceiling-mounted fluorescent lighting fixture(s), 48 inches long, with acrylic lens and two 40-W lamps in each fixture. Provide single-pole switch mounted adjacent to door to control lighting fixture.
- F. Heating and Cooling Unit: Wall-mounted, thermostatically controlled, 230-V, heating and cooling unit with fan-forced operation and with capacity of not less than 11,600 Btu/h. Enclose in enameled-steel cabinet and mount under work counter. Unit power connection is to be cord and plug connected to dedicated 240v wall outlet.
- G. Accessories: Provide the following for each control booth:
  - 1. Antifatigue mats.

2. Ventilation fan.
3. Intercom.

### 2.3 PREFABRICATED STEEL CONTROL BOOTHS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide B.I.G. Enterprises Model No. DRE410B or comparable product by one of the following:
1. AustinMohawk and Company, Inc.
  2. Canada Kiosk; an NRB company.
  3. Delta Scientific Corporation.
  4. Keystone Structures, Inc.
  5. Little Buildings, Inc.
  6. Mardan Fabricators.
  7. Parking Booth Company, Inc.
  8. Par-Kut International, Inc.
  9. Porta-King Building Systems.
- B. Structural Framework: Fabricated from 2-by-2-by-0.083-inch A-500 galvanized steel structural mechanical tubing. Connect framework by welding.
- C. Base/Floor Assembly: 2-inch high R-10 insulated A-569, 11 gauge steel plate floor covered with heavy duty 1/8 inch x 19 inch square black raised rubber tiles and base cove. Perimeter frame is to be welded to structural framework of booth. Fabricate frame from 2-by-2-by-0.083-inch galvanized-steel structural tubing. Include anchor clips fabricated from 1/4-inch-thick galvanized-steel plate, predrilled and welded to exterior of integral floor frame.
- D. Wall Panel Assembly: To be a minimum of A-527, 16ga. cold rolled galvanized steel interior and exterior panels MIG welded between frame and mullions for self aligning unitized system, insulated to R-10. Booth to have full 24" radius at each end.
- E. Flat Roof/Ceiling Assembly: To be all steel construction, designed for exterior use, insulated to R-19. Roof to have 18" parapet style fascia with no overhang. Roof to be designed to drain through scupper system formed into the fascia at each end.
1. Downspouts: Integral, extending 3 inches beyond booth walls.
- F. Horizontal Sliding Door: Galvanized steel sash frames glazed with 6 mm tinted ballistics-resistant glazing, UL 752 Level 3. Top of door suspended from galvanized steel track with ball-bearing rollers; 1-3/4 inches thick; tubular-frame design fabricated from galvanized steel; with top half of door glazed. Equip door with deadlock, lock support, guide hardware, and full weather stripping.
1. Deadlock: Mortised, laminated-hook bolt type with removable cylinder capable of being master keyed.
- G. WINDOWS: Unit to have steel window frame system with flush mounted corners and welded fastening. Unit to have fixed windows on all sides, all flat windows to be glazed with 6 mm tinted ballistics-resistant glazing, UL 752 Level 3.
- H. Finish: Finish exposed metal surfaces, including structural framework, walls, canopy, and ceiling with high-build, rust-inhibitive primer, and two finish coats of industrial two-part catalyst polyurethane enamel.

1. Color: As selected by Architect from manufacturer's full range.

#### 2.4 FABRICATION

- A. Fabricate control booths completely in factory.
- B. Preglaze windows and doors at factory.
- C. Prewire control booths at factory, ready for connection to service at Project site.
- D. Fabricate control booths with [forklift pockets in base of booth] [removable lifting eye centered in roof].

#### 2.5 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

- A. Install control booths according to manufacturer's written instructions.
- B. Set control booths plumb and aligned. Level base plates true to plane with full bearing on concrete bases.
- C. Fasten control booths securely to [cast-in anchor bolts] [concrete bases with expansion anchors].
- D. Connect electrical power service to power distribution system according to requirements specified in Division 26 Sections.

#### 3.3 ADJUSTING

- A. Adjust doors, operable windows, and hardware to operate smoothly, easily, properly, and without binding. Confirm that locks engage accurately and securely without forcing or binding. Lubricate hardware and other moving parts.
- B. After completing installation, inspect exposed finishes and repair damaged finishes.

### END OF SECTION

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: DEFK13007**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |   |  |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

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Company

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Authorized Signature

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Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.  
 Revised 6/8/2012