Procurement and Contracting Services

Request for Proposals for
Student Success District Signage and Graphics

Please mark all proposal submission
Envelopes with the following information

Sealed RFP #S132012
Due on April 16 2124, 2020 no later than 2:00 PM, MST

The following addendum is issued due to error in specification. Please refer to both pages 2 and 3.

In addition the date for submittals has changed to April 24, 2020 at 2:00 PM, MST.

In response to the current COVID-19 Pandemic, an exception will be made for RFP L132012 section 3.8. Email proposal responses will be accepted until the due date and time of April 24, 2020 no later than 2:00PM. Proposals may be emailed to Lilas@email.arizona.edu and should be titled in the following format:
RFP L132012 (Vendor Name) Response
**SSD Graphics and Signage RFP #S132012**

**Additional Bidder Questions and Responses**

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<tr>
<th>QUESTIONS</th>
<th>RESPONSES</th>
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<tr>
<td>Drawings indicate digitally printed wall covering with graffiti overlam and vertical seams. Is graffiti overlam required?</td>
<td>Delete “graffiti” from drawings and provide material described in specifications.</td>
</tr>
<tr>
<td>What is Sign Type H product?</td>
<td>See revised specification section 2.3 (i) Page 6 powder coated graphic information to the Bear Down specification.</td>
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PART 1 - GENERAL

1.1 DESCRIPTION

A. This section describes the fabrication and installation of interior signage scheduled in the drawings.

B. Design Requirements: Provide signage that complies with the Americans With Disabilities Act (ADA) Accessibility Guidelines.

1.2 SUBMITTALS

A. Product Data:

1. Submit manufacturer's product specifications, anchor details and installation instructions for products used in sign fabrication, including paint products, lighting and electrical devices.

2. Submit qualification data for firms and persons specified in "Quality Assurance" article to demonstrate their capabilities and experience. Include list of completed projects identifying project name, address, Designer and Owner.

B. Shop Drawings:

1. Submit complete shop drawings for fabrication and installation of signs and related work including plans, elevations and details of components and attachments to other work. Indicate materials and profiles of each member, fitting, joinery, finishes, fasteners, anchorages and accessory items.

2. For structural elements include details of cuts, connections, camber, holes and other pertinent data. Indicate welds by standard AWS symbols and show size, length and type of each weld.

3. Provide setting drawings, templates and directions for the installation of anchor bolts and other anchorages to be installed in work described in other sections.

C. Material & Finish: Submit samples of each sign component material showing finishes, colors and surface textures. Component material samples must be approved before completed product samples are fabricated. Each submittal must be labeled with all applicable sign types.

D. Sign Layouts: Submit layout to architectural scale large enough to review letterspacing for each sign scheduled. In addition, submit full size representative sign layouts for each sign type.

E. Completed Product Samples: Upon approval of all material & finish samples, submit full-size sample units of completed product for the following sign types. Completed product samples must be approved before fabrication begins on remaining signs. Samples shall be retained by the Owner unless noted otherwise.

1. Sign Type A1 (Area ID, Wall Mount): Partial sign assembly including, graphics, edge finish and hardware.

2. Sign Type A2 (Area ID, Overhead): Partial sign assembly including, finish, graphics, and mounting system hardware.


4. Sign Type B1 (Directory, Large): Partial sign assembly showing backer panel, rails (3), and plates with graphics.


6. Sign Type C (Flag Sign): Completed product sample with mounting hardware. Approved product may be installed.

7. Sign Type D (Directional): Completed product sample including graphics. Approved product may be installed.

8. Sign Type E (Graphic Wallcovering): 2ft x 6ft sample of each color scheme = Total 3. Allow for 3 rounds of color adjustments for each.

9. Sign Type F (Vinyl on Glass): No sample required.

10. Sign Type G.001 (Block A Logo): Representative acrylic sample at half scale.

11. Sign Type G.002 (Block A Logo): Representative copper and aluminum sample, same size as G.001 sample.

12. Sign Type H – (ADD ALTERNATE): Partial sample showing representative graphics.

F. Maintenance Data: Include cleaning recommendations. Provide information on methods and products for field paint repair and graffiti removal.

1.3 CODES, ORDINANCES AND REGULATIONS

A. The completed installation shall conform to all applicable Federal, State and local codes, ordinances and regulations.

B. Obtain all necessary permits and inspections required by the governing authorities having jurisdiction over this work. Include associated fees in initial proposal.

C. Furnish to the Architect a certificate of approval from the inspection authority at the
completion of the work prior to the application for final payment.

D. Where specified materials or methods exceed minimum standards allowed by applicable codes, the more stringent requirement shall apply.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: For each sign form and graphic image process indicated furnish products from manufacturers regularly engaged in work of this magnitude and scope for minimum of five years.

B. Uniformity of Manufacturers: For each sign form and graphic image process indicated furnish products of a single manufacturer.

C. Fabrication Observation: Notify Owner 15 days prior to 90 percent completion of the shop fabrication, so that the work may be observed prior to delivery to the job site.

1.5 PERFORMANCE REQUIREMENTS

A. Expansion & Contraction: Design, fabricate and install component parts to provide for expansion and contraction of the material over a temperature range of 100 degrees F. (83.3 degrees C.), without buckling, sealant joint failure, glass breakage, undue stress on members and anchors, or other detrimental effects.

B. Fabrication Tolerances: Sign panels shall show no visual distortion when viewed in installed position.

C. Panel Alignment at Butt Joints: Sign panels shall align parallel and flat without visible variation when viewed from the normal viewing distance.

D. Installation Alignment: Signs will be reviewed by Owner for acceptance. Criteria will include plumbness, trueness, alignments and relationships with adjacent work.

1.6 PROJECT CONDITIONS

A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication, where possible, to insure proper fitting of work.

1.7 DELIVERY, STORAGE AND HANDLING

A. Delivery of Materials: Deliver work to project site when adjacent finishes are complete and ready for immediate installation.

B. Handling Materials and Equipment: Handle finished product in careful manner in order not to damage or mar surfaces of finished product or adjacent finished surfaces.

1.8 OWNER PROVIDED INFORMATION

A. The Owner shall provide paper inserts for the following Sign Type:


PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

A. Sign Type A1 – Area ID, Wall Mount: Standoff hardware, 5/8” x 5/8” through grip standoffs, round, stainless steel, silver. Displays2Go – SKU: SO625SS or equal.

B. Sign Type A2 – Area ID, Overhead: Griplock – Black Grip for 3/32” & 1/8” cable with locking pin. ShopMtn.com, 30-FORK-10X10-V6B-5 or equal.

2.2 METALS

A. Aluminum: Provide aluminum in the form indicated complying with the following American Society for Testing Materials (ASTM) requirements:

2. Extruded Bar and Shapes: ASTM B221, Alloy 6063-T6.

B. Copper: Provide copper in the form indicated complying with the following requirements:

1. Sheet and Plate: C1100 Alloy.

C. MISCELLANEOUS PRODUCTS AND MATERIALS

D. Fasteners: Of same basic metal and alloy as fastened metal, unless otherwise indicated. Do not use metals which are corrosive or otherwise incompatible with metals joined.
1. Fastening devices between dissimilar materials shall be 300 Series non-magnetic stainless steel.
3. Finish: Where exposed to view match adjacent material.
4. Provide concealed fasteners for interconnection of metal work components and for their attachment to other work except where exposed fasteners are indicated on the drawings.
5. Provide socket flat-head machine screws or bolts for exposed fasteners, unless otherwise indicated.

E. Adhesives:
1. General: Provide low or no VOC adhesives.
2. Very High Bond (VHB) Adhesive: 3M Company, product as recommended by manufacturer for type of use, materials and fabrication; or equal.
3. Foam Tape: Double faced pressure sensitive foam tape, 3M Company, product in width and thickness as recommended by manufacturer for type of use, materials and fabrication; or equal.
5. Epoxy: Epoxy shall be two-component thermosetting epoxy adhesive with 100% solids content. Acceptable products include #NP-428, Miracle Adhesives Corporation; Chemlok #304, Hughson Chemical Division of Lord Corporation; or equal.
6. Contact Adhesive: Contact adhesive normally associated with high pressure decorative laminates for both flat and curved surfaces.
7. Magnetic Tape: Scotch Brand, or equal, self-adhesive magnetic tape in size and quantity to assure adhesion.

2.3 GRAPHIC COMPONENTS AND PROCESSES

A. General:
1. All graphics, including text, symbols and arrows shall be executed in such a manner that all edges and corners are true and clean.
2. Type Sizes: As indicated on drawings for particular units.
3. Typefaces: All work to precisely replicate the typefaces as indicated on drawings.
4. Typographic Spacing: Match letter, word and line spacing as indicated on drawings for all text configurations.
5. Symbols and Arrows: Match artwork as indicated on the drawings.

B. Pressure Sensitive Vinyl Graphics:
1. Provide pressure sensitive vinyl messages installed at finished surfaces in the sizes, mounting heights, letter-spacing and alignment indicated on drawings.
2. Sign messages shall be provided pre-spaced in type sizes, colors and typeface as shown on the drawings and specified herein. All lettering shall be executed in such a manner that all edges and corners of letter forms are true, clean, photographically precise and accurately reproduce the typeface. Messages shall be smooth and free of air bubbles, open cuts, bulging and foreign matter between message and application surface.
3. Material: 3-M or Oracal vinyl sheeting; or equal.
4. Color: As indicated on drawings.
5. Type & Finish: As indicated on drawings.

C. Digitally Printed Vinyl Wallcovering:
1. Substrate: 3M print wrap film J180mC-10.
2. Printing: All pictorials to be printed consistently using solvent or UV Ink Jet Printer output.
3. Lamination: 3M Decor overlaminate 8600M-102, Knit. Lamination to be performed on laminator with proper heat, speed and pressure to ensure maximum adhesion.
4. Resolution: true 1200 x 1200 dpi.
5. Delivery & Storage: Store in flat position to avoid damage to end of rolls. Store in clean, dry storage area with temperature maintained above 55 degrees with normal humidity. Do not cross stack this material.
6. Install Conditions: Install area shall have a constant minimum temperature of not less than 60 degrees for at least seven days prior to and throughout the installation period for seven days after.
7. Installation: Graphics shall be installed by certified installer per manufacturer recommendation to preserve warranty.
9. Warranty: Minimum of 5 years against fading, cracking, chipping and peeling.

D. Painted Graphics:
1. Use adhesive vinyl stencils to paint graphics on walls.
2. Font, size, and color as indicated on drawings.
3. Wall paint appropriate for unfinished interior CMU wall.

E. Acrylite Signs:
1. Fabricate units to configurations and sizes as indicated on the drawings. Edges and surfaces to be straight, smooth and true.
2. Finish: Satinice Velvet Texture
3. Thickness as indicated on drawings.
4. Color: Colorless OF00 SC
5. Typeface: As indicated on drawings.

F. Acrylic Window Signs:
1. Fabricate units to configurations and sizes as indicated on the drawings. Edges and surfaces to be straight, smooth and true.
2. Face: Clear, non-glare (except where indicated otherwise on drawings), optically corrected, cast virgin acrylic sheet ready for second surface (backside) application of graphics. Thickness as indicated on drawings.
3. Assembly: Laminate acrylic sign panel to acrylic backer with Very High Bond adhesive.
4. Tolerances: Edge alignment of acrylic sign panel to acrylic backer to be square and flush with hairline seams.
5. Color: As indicated on drawings.

G. Dimensional Acrylic Letters:
1. Construction: Precision cut in the thickness and sizes indicated on the drawings. Edges shall be square to face of letter and free from cut marks or other imperfections. Corners and kerfs shall be square, or as indicated on the drawings.
2. Material: As indicated on drawings.
4. Edges: Finish to match face of letter, unless noted otherwise on the drawings.

H. Dimensional Metal Letters:
1. Material: As indicated on drawings.
2. Construction: Precision cut from sheet or plate in the thickness and sizes indicated on drawings. Edges shall be square to face of letter and free from cut marks or other imperfections. Corners and kerfs shall be square, or as indicated on the drawings.

I. Powder Coated Graphics:
1. Substrate: as indicated on drawings.
3. Resolution: true 1200 x 1200 dpi or better.
4. Finish: exterior matte or interior use.
5. Warranty: Minimum of 5 years against fading, cracking, chipping for interior use.
6. Manufacturer:
   a. 5H Immersive Product: Alto
      https://www.altoaluminum.com/
   b. Direct Embed Coating Systems, Inc.
      https://www.directembedcoating.com/

2.4 METAL FABRICATION

A. General:
1. Use materials of size and thickness indicated or, if not indicated, as required to produce strength and durability in finished product for use intended. Work to dimensions shown or accepted on shop drawings, using proven details of fabrication and support. Use type of materials shown or specified for various components of work.
2. For exposed work fabricate true to line and level with accurate angles and surfaces and straight sharp edges. Exposed edges shall be square unless otherwise shown.
3. Ease corners and edges where exposed to public touch. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
4. Provide metal work composed of metals of the forms and types which comply with requirements of referenced standards and which are free from surface blemishes where exposed to view in the finished unit. Exposed-to-view surfaces exhibiting pitting, seam marks, roller marks, “oil canning”, stains, discolorations or other
imperfections on finished units will not be accepted.

4. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type shown or, if not shown, socket flat-head screws or bolts.

5. Provide for anchorage of type shown, coordinated with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.

6. Cut, reinforce, drill and tap miscellaneous metal work as indicated to receive finish hardware and similar items.

B. Metal Protection:

1. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

C. Miscellaneous Trim and Hardware:

1. Provide shapes and sizes as required for profiles shown. Except as otherwise noted, fabricate units from structural steel shapes, plates and bars, with continuously welded joints and smooth exposed edges. Use concealed field splices wherever possible. Provide cutouts, fittings and anchorages as required for coordination of assembly and installation with other work.

2. Furnish bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels and other miscellaneous steel and iron shapes as required for supporting of signage.

3. Fabricate items to sizes, shapes and dimensions required.

D. Shop Assembly:

1. Fabricate units to configurations indicated on reviewed shop drawings.

2. Provide required text and artwork as indicated on reviewed shop drawings.

3. Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

E. Surface Preparation: After inspection and before finishing, clean metal work to be painted. Clean metal by “wheel abrader” process or other method to achieve results defined by Steel Structures Painting Council (SSPC) for “SP-6 Commercial Blast Cleaning”.

F. Preparation for Shipping and Handling: Provide strippable protective coating or wrapping.

2.5 METAL FINISHES

A. General:

1. Complete cutting, fitting, forming, drilling and grinding of metal work prior to cleaning, finishing, surface treatment and application of finishes.

2. Comply with National Association of Architectural Metal Manufacturers (NAAMM) “Metal Finishes Manual” for finish designations and application recommendations to match sheet finish specified above, except where more stringent requirements are indicated.

3. Finish all joints, bends, abrasions, and other surface blemishes to match the sheet finish. Finish free of tool or construction marks, or dents.

4. Spray apply sound deadening mastic (with flame spread of 75 or less) to concealed surfaces of formed metal and other areas of flat sheets not laminated to backing as indicated on drawings.

5. Protect mechanical finishes on exposed surfaces from damage by application of removable temporary protective covering prior to shipment.

B. Anodized Aluminum:


2. Color: Clear and Black.

C. Copper:

1. Finish: Fine satin brushed, with satin finish clearcoat.

2.6 COATINGS FOR METAL, ACRYLIC AND PHOTOPOLYMER

A. Acceptable Manufacturers and Products: Matthews Acrylic Polyurethane (MAP), or equal.

B. Recommended System:
1. Aluminum: Matthews Acrylic Polyurethane (MAP), Ultra Low VOC product. Primers, catalysts and reducers are to be per manufacturer’s recommendations. Match colors and gloss as indicated.

2. Acrylic: Matthews Tie Bond, 74-777SP or as per manufacturer’s recommendations. Followed by Matthews Acrylic Polyurethane (MAP), Ultra Low VOC product. Match colors and gloss as indicated.

3. Clearcoat: Provide protective clearcoat over all painted surfaces. Use Matthews Acrylic Polyurethane (MAP), Super Satin Clear 290 228SP.

C. Field Repair: Provide system recommended by manufacturer for field repair by untrained applicators employed by Owner.

D. Application:

1. Substrates to be cleaned and surface prepared as recommended by paint manufacturer.

2. The number of coats and paint film thickness required is the same regardless of the application method. Do not apply succeeding coats until previous coat has flashed off as recommended by coating manufacturer. Sand between coat applications where required to produce an even, smooth surface in accordance with coating manufacturer’s directions.

3. Apply additional coats when undercoats or other conditions show through final coat until the cured film is of uniform finish, color and appearance.

4. Minimum Coating Thickness: Dry film thickness and application procedures to be in strict accordance with manufacturer’s recommendations. Apply each material at not thinner than manufacturer’s recommended spreading rate. Provide a total dry film thickness of entire coating system as recommended by manufacturer, unless otherwise indicated.

5. Apply an even film, free of surface imperfections.

6. Completed work: Match approved samples for color, gloss, texture and coverage. Remove, refinish, or recoat work not in compliance with specified requirements.

E. Color Schedule: As indicated on drawings.

2.7 INSTALLATION

A. General: Locate sign units and accessories where shown or scheduled, using mounting methods of the type described and in compliance with the manufacturer’s instructions. Install sign units level, plumb and at the height indicated, with sign surfaces free from distortion or other defects in appearance. Notify Owner of installation conflicts.

B. Foam Tape Mounting: Use 3M product as specified for mounting signs to smooth, non-porous surfaces as indicated on the drawings. Do not use this method for vinyl-covered or rough surfaces. Position tape at back of sign for optimum performance and hidden from view.

C. Silicone Adhesive Mounting: Use liquid silicone adhesive as specified to attach sign units to irregular, porous or vinyl-covered surfaces as indicated on the drawings. Use foam tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured. Remove visible adhesive.

D. Mechanical Fastener Mounting: Install signs securely to wall with fasteners and anchoring devices as indicated on drawings and as specified.

E. VHB Adhesive Mounting: Install signs with full sheet VHB adhesive where indicated on the drawings. Trim adhesive flush to exposed edges of material being installed.

F. Bracket Mounted Units: Provide fittings and hardware as appropriate for mounting signs from ceiling. Attach brackets and fittings securely to ceiling with fasteners and anchoring devices as indicated on drawings.

2.8 PROTECTION

A. Protect finishes from damage during construction period, field handling and installation by use of temporary protective coverings. Protect adjacent surfaces from damage during field fabrication and installation. Remove protective covering at time of substantial completion.

B. Restore finishes damaged during installation and construction period so that no evidence remains of corrective work. Touch up any exposed fasteners and connecting hardware to match color and finish of surrounding surface. Touch up damaged surfaces carefully, using airbrush technique where necessary. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units as required.

2.9 CLEANING

A. Clean all exposed surfaces just prior to date of substantial completion in accord with manufacturer’s written cleaning instructions. Protect units from damage until acceptance.