



**ADDENDUM NO. 02
September 21, 2022**

To Drawings and Specifications dated September 7, 2022.

**WINDSONG ELEMENTARY SCHOOL ADDITION & RENOVATION ISSUE FOUR PROPOSAL
FOR FRIENDSWOOD I.S.D.**

Prepared by: PBK
11 Greenway Plaza, 22nd Floor
Houston, TX 77046-1104
PBK Project No: 20380

Notice to Bidders

- A. Receipt of this Addendum shall be acknowledged on the Bid Form.
- B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.
- C. Each bidder shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

RFI / CLARIFICATIONS

General

Item No. 1 Pre-proposal conference sign-in sheet added in this addendum.

Specifications

- Item No. 2 **Section 00 11 00 - 1 Request For Competitive Sealed Proposals**
Bid and Alternate Opening at 3:30 PM at
FISD Administration Annex Building Board Room
402 Laurel Dr,
Friendswood, Texas 77456 77546
- Item No. 3 **Section 10 14 00 – 1 Graphics**
Sections 1.3C and 2.3 removed.

Attachments include 9 additional sheets ending with Section 10 14 00-8.



Melissa Turnbaugh
September 19, 2022

SECTION 10 14 00 - GRAPHICS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes: Requirements including but not limited to:
 1. Panel signs.
 2. Room identification signs.
 3. Field applied, vinyl character signs.
 4. Cast character for exterior signage.
 5. Illegally Parking Signs in Accessible Spaces.
 - ~~6. Dedication plaque.~~
 7. Reverse Channel Letter Sign.
 8. Accessories necessary for a complete installation.

1.3 SUBMITTALS

- A. Product Data: Technical data for each type of signage.
- B. Signage Shop Drawings: Submit fabrication and installation details and attachments to other Work.
 1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 2. Show message list, typestyles, graphic elements, including raised characters and Braille, and layout for each sign at least half size.
- ~~C. Dedication Plaque Shop Drawings: Submit fabrication and installation details and attachments to other Work.
 1. Indicating materials, sizes, and finishes, details of fabrication and installation, fasteners and hardware, attachments, related and adjacent Work.
 2. Rubbing of actual pattern of cast metal plaque for Architect's approval prior to casting.~~
- D. Certifications: Submit letter of certification from manufacturer that installer and manufacturer is in compliance and meets specified requirements.
- E. Samples:
 1. One (1) 6 inch x 6 inch sample of cast metal plaque material with specified finish.

1.4 QUALITY ASSURANCE

- A. Regulatory Requirements:
 1. Building Code/City Code: Comply with building code and local ordinances for exterior signage.
 2. Accessibility Requirements: Comply with applicable requirements.
 - a. U.S. Architectural and Transportation Barriers Compliance Board Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG) 2010.
 - b. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.
 - c. Texas Accessibility Standards (TAS) 2012.

- B. Installer Qualifications: Installer has minimum 5 Years documented experience in the manufacture of signage and who employs installers and supervisors trained and approved in installation methods for each type of signage.
- C. Thermal Movements: For exterior fabricated channel dimensional characters, allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), material surfaces.

1.5 FIELD CONDITIONS

- A. Field Measurements: Verify locations of anchorage devices and electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.6 WARRANTY

- A. Written warranty signed by manufacturer in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of finishes beyond normal weathering.
 - b. Deterioration of embedded graphic image.
 - c. Separation or delamination of sheet materials and components.
 - 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Basis of Design Manufacturer: South Texas Graphics; (713) 467-4499. Other manufacturers shall have a minimum of five (5) years experience manufacturing products meeting or exceeding those specified and shall comply with Division 1 requirements for substitutions in order to be considered.
 - 1. A.R.K. Ramos Architectural Signage Systems; (405) 235-5505.
 - 2. InPro Corporation (IPC); (800) 222-5566.
 - 3. ProWorx Architectural Signage; (713) 666-3131.
 - 4. Riot Creative Imaging; (713) 988-9200.
 - 5. Stanley Signature Signs; (281) 395-6106.
 - 6. The Southwell Co.; (210) 223-1831.
- B. Aluminum Castings: ASTM B 26/B 26M, alloy and temper recommended by sign manufacturer for casting process used and for type of use and finish indicated.
- C. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- D. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- E. Acrylic Sheet: ASTM D 4802, category standard with manufacturer for each sign, Type UVF (UV filtering).
- F. Plastic Laminate Sheet: NEMA LD 3, general purpose HGS grade, 0.048-inch (1.2-mm) nominal thickness.

- G. Vinyl Film: UV resistant vinyl film of nominal thickness indicated, with pressure sensitive, permanent adhesive on back; die cut to form characters or images indicated and suitable for exterior applications.
- H. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.
- I. Accessories:
 - 1. Fasteners and Anchors: As necessary for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:
 - a. Use concealed fasteners and anchors unless indicated to be exposed.
 - b. Exposed Metal Fastener Components: Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
 - 2. Sign Mounting Fasteners:
 - a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly, unless otherwise indicated.
 - 3. Adhesive: Recommended by sign manufacturer.
 - 4. Two Face Tape: High bond, foam core tape, 0.045 inch (1.14 mm) thick, with adhesive on both sides.
 - 5. Bituminous Paint: Cold applied asphalt emulsion complying with ASTM D 1187.

2.2 SIGNAGE

- A. General:
 - 1. Constructed of one (1) or two (2) high pressure laminate in colors selected by Architect / Owner, laminated to an 1/8" inch thick acrylic backer.
 - 2. Signage shall have radius or square corners with square cut edges painted a color as selected by Architect / Owner.
 - 3. Demarcation lines, if any, can be raised 1/32" inch to match copy or engraved and infilled with a color as selected by Architect / Owner.
 - 4. Signs shall comply with all state and federal codes, including but not limited to, the 2012 ADA and TAS requirements.
 - 5. Refer to drawings for details of types, dimensions, colors, graphic layouts and mounting/height specifications.
- B. Room Numbers, Symbols, Lower or Secondary Copy, and Pictograms:
 - 1. Copy shall be matte finished acrylic, raised 1/32" inch of a color contrasting to the face laminate.
 - 2. Characters and pictograms shall be chemically welded to the acrylic backing, through the face laminate, to assure permanent adhesion.
 - 3. Room numbers and restroom copy shall be copy shall be accompanied by Grade II Braille by means of 'VisiTouch DuraDot System'. Glass or metallic 'DuraDots' shall have

.059 inch surface diameter with body of sphere pressure secured below face laminate. Routed boxes or glued on dots are not acceptable.

4. Secondary copy shall be a minimum of 5/8" inch high, matte finished acrylic, raised 1/32" inch san serif font.
 5. Acceptable ADA compliant fonts are Arial, Helvetica, Optima, Futura as selected by Architect, in all caps.
- C. Restroom Pictograms:
1. Pictograms shall appear on a minimum 6" inch, unobstructed square.
- D. Window (Slotted) Signs:
1. Window / Slotted signs shall be open at both ends for changeable insert provided by Owner. Window shall be a non-glare Lexan acrylic lens, with an exposed color laminate behind in color as selected by Architect/Owner.
- E. Fasteners and Accessories:
1. 1/8" inch thick, double-sided foam tape of type recommended to suite application and commercial grade silicone sealant.
 2. Back-up plates shall be supplied, when shown or required, for signage mounted on glass.
- F. Provide all materials required for a complete installation.
- G. Approved manufacturers:
1. Signage:
 - a. Basis of Design: South Texas Graphic Specialties, Inc. Houston, TX 713.467.4499.
 - b. Refer to 2.1.A. of Section 10 14 00 for approved manufacturers.
 2. Plastic Laminate:
 - a. WilsonArt International, Temple, TX 800.433.3222
 - b. Nevamar Company, LLC, Shelton, CT 877.726.6526
 - c. Formica, 1.800.367.6422
 - d. Pionite, Shelton, CT 203.925.1556
- B. Cast Characters: Characters with uniform faces, sharp corners, and precisely formed lines and profiles:
1. Character Material: Cast aluminum.
 2. Character Height: Indicated on Drawings.
 3. Finishes:
 - a. Baked Enamel or Powder Coat Finish: Color to match school colors and logo.
 - b. Overcoat: Baked on clear coating.
 4. Mounting: Concealed studs.

5. Typeface: Selected by Architect.
- C. Field Applied, Vinyl Character Sign: Prespaced characters die cut from 3 mil to 3.5 mil (0.076 mm to 0.089 mm) thick, weather resistant vinyl film with release liner on the back and carrier film on the front for on site alignment and application.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allen Markings.
 - b. APCO Graphics, Inc.
 - c. Mohawk Sign Systems.
 - d. Seton Identification Products.
 2. Size: Indicated on Drawings.
 3. Substrate: Indicated on Drawings.
- D. Reverse Channel Letter Sign :
1. Basis of Design : Aria Signs or comparable product approved by Architect.
 2. Character Material: Cast aluminum.
 3. Character Height: Indicated on Drawings.
 4. Mounting: Mounted on raceway.
 5. Finishes:
 - a. Baked Enamel or Powder Coat Finish: Color to match school colors and logo.
 - b. Overcoat: Baked on clear coating.
- E. Illegally Parking Signs in Accessible Spaces:
1. Sign for Illegally parking in a paved accessible parking space.
 2. Minimum state "Violaters Subject to Fine and Towing" in a letter height of at least one inch.
 3. Mounted on a pole, post, wall or freestanding board as shown on the Drawings.
 4. No more than eight (8) inches below a sign required by ADA and TAS standards.
 5. Installed so bottom edge of sign is no lower than 48 inches and no higher than 80 inches above ground level.
- F. Post and Panel
1. Basis of Design: iZone Imaging or comparable product approved by Architect.
 2. Signage Material: CHPL 1/8" XT Exterior Panel Signage sided with matte finish – exterior and standard eased edge.
 3. Sizes: As indicated in Drawings.
 4. Frame: Frame with double cantilever pedestal, 1/8" T MAX.
 5. Mounted: 54" black powder post with required arms.
 6. Footing: In ground as required by manufacturer.
 7. Accessories: Provide all materials required for signage and proper installation.

2.3 — DEDICATION PLAQUE

A. — Cast Metal Dedication Plaque:

1. **Material and Fabrication:**
 - a. ~~Casting: Prime bronze ingots of Alloy 220 Commercial bronze free of pits and gas holes and all letters shall be sharp and hand tooled.~~
 - b. ~~Border Style: Single line standard border design.~~
 - c. ~~Letter Style/Sizes: Shall be Helvetica Medium in both upper and lower case letters, unless shown otherwise. Letter sizes shall be as shown on drawings.~~
 - d. ~~Finishes:~~
 - 1) ~~Borders and Letter Faces: satin finish.~~

- ~~2) — Plaque Background: Dark oxidized finish with baked on acrylic coating.~~
- ~~3) — Plaque shall be chemically cleaned.~~
- ~~4) — Completed plaque shall be sprayed with two (2) coats of clear hardened acrylic polyurethane.~~

- ~~e. — Size: As shown on drawings.~~

- 2. ~~Fasteners and Attachment Hardware: Concealed fasteners and hardware of size and type recommended by manufacturer for attachment of plaque on brick wall where indicated on drawings.~~
- 3. ~~Provide all materials required for a complete installation.~~
- 4. ~~Approved Manufacturers:~~
 - ~~a. — A.R.K. Ramos Architectural Signage Systems, Oklahoma City, OK; (405) 235-5505~~
 - ~~b. — Best Manufacturing Sign Systems, Montrose, CO; (800) 235-2378~~
 - ~~c. — York Bronze Company, Bryan, TX; (800) 488-4662~~
 - ~~d. — Gemini Incorporated, Cannon Falls, MN; (800) 538-8377~~
 - ~~e. — Matthews Bronze, Pittsburgh, PA; (800) 950-1317~~
 - ~~f. — Metal Arts, Division of L & H Mfg. Co., Mandan, ND; (800) 237-8069~~
 - ~~g. — ProWorx Architectural Signage, Houston, Texas; (713) 666-3131~~
 - ~~h. — The Southwell Co., San Antonio, TX; (210) 223-1831 (Basis of Specification).~~

2.4 FABRICATION

- A. Provide sign assemblies according to requirements indicated.
 - 1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
 - 2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
 - 3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
 - 4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
 - 5. Internally brace signs for stability and for securing fasteners.
 - 6. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing Work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
 - 7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

- B. Brackets: Fabricate brackets, fittings, and hardware for bracket mounted signs to suit sign construction and mounting conditions indicated. Modify brackets as necessary.
 - 1. Aluminum Brackets: Factory finish brackets with baked enamel or powder coat finish to match sign background color unless otherwise indicated.

2.5 FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- 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.
- C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.
- D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.
- E. Aluminum Finishes:
 - 1. Clear Anodic Finish: AAMA 611, Class I, 0.018 mm or thicker.
 - 2. Baked Enamel or Powder Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of signage Work. Verify sign support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- B. Proceed with installation after correcting unsatisfactory conditions.

3.2 INSTALLATION

- A. Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
 - 3. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches (75 mm) of sign without encountering protruding objects or standing within swing of door.
 - a. Comply with all applicable accessibility requirements for mounting height and location of each sign.
 - 4. Before installation, verify sign surfaces are clean and free of materials or debris that impair installation.
 - 5. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

- B. Mounting Methods:
1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
 - b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.
 2. Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.
 3. Shim Plate Mounting: Provide 1/8 inch (3 mm) thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other direct mounting methods are impractical. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach signs to plate using method specified above.
- C. Field Applied, Vinyl Character Signs: Clean and dry substrate. Align sign characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fishmouths. Remove carrier film without disturbing applied vinyl film.
- D. Signs Mounted on Glass: Provide opaque sheet matching sign material and finish onto opposite side of glass to conceal back of sign.
- ~~E. Cast Metal Dedication Plaque:~~
- ~~1. Install in accordance with manufacturer's instructions.~~
 - ~~2. Install in location shown on drawings.~~
 - ~~3. Install with concealed fasteners of threaded bolt screwed into back of plaque and inserted into hole drilled in brick at an angle and filled with cement.~~

3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 14 00