

ADDENDUM NO. 4

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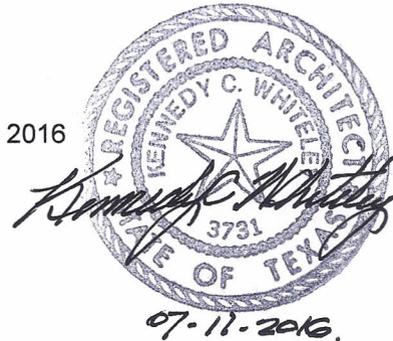
FOR: WEBB COUNTY YOUTH VILLAGE REHABILITATION CENTER
FOR WEBB COUNTY
111 CAMINO NUEVO ROAD, HWY 359
LAREDO, TEXAS 78041

TO: DRAWINGS AND SPECIFICATIONS DATED APRIL 7, 2016

PREPARED BY: AUSLAND ARCHITECTS + METAFORM STUDIO

ADDENDUM DATE: July 11, 2016

ARCHITECTS PROJ. NO.: 1401



This addendum shall be considered part of the Contract Documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.

Addendum No. 4 consists of the following:

- Addendum No. 4
- Specifications
074113 – Metal Soffit, Wall Panels & Roof Panels (1-7)
- End of Addendum No. 4

Bidders are hereby notified that they shall make any necessary adjustment in their estimates on account of this addendum. It will be construed that each bidder has submitted with full knowledge of all modifications and supplemental data specified herein.

Note: Invitation For Competitive Sealed Proposals Revision

COMPETITIVE SEALED PROPOSALS WILL BE RECEIVED UNTIL 2:00 PM, CST, Thursday, July 21, 2016

Mark Proposal: Proposal No. 2016-03: "Webb County Youth Village Rehabilitation Center," Laredo, Texas

**Hand delivered or mailed to:
Webb County Clerk's Office
County Clerk
1110 Victoria St., Suite 201
Laredo, Texas 78040**

Proposals must be delivered no later than Thursday, July 21, 2016 – 2:00 p.m. to the attention of the Webb County Clerk. Proposals will be opened and publicly read at 2:00 p.m.

A Proposal Security in the amount of five percent (5%) of the Proposer amount must accompany each proposal in the form of a payment bond, cashier's check, or bank money order made payable to the County of Webb. Performance and Payment Bonds each in the amount of (100) % of the contract amount will be required from the successful Proposer.

Proposals must be submitted with one (1) ORIGINAL and eight (8) COPIES in sealed envelopes to the Webb County Clerk's Office. Sealed envelopes must be marked (Sealed- Proposal) with proposal name on envelope.

ADDENDUM NO. 4

Jose Angel Lopez III, Purchasing Agent

CLARIFICATIONS:

Item		Clarification
C4-1	Section 087100 Door Hardware	Contractor may bid this item as "Approved Equal".
C4-2	Section 074113 Metal Soffit, Wall Panels & Roof Panels	Addendum No. 03 Issued July 6, 2016 did not include Specification Section 074113 Metal Soffit, Wall Panels, & Roof Panels sheets 1-7.

SPECIFICATIONS:

Item	Reference Specifications	Description
S4-1	Section 074113 Metal Soffit, Wall Panels & Roof Panels	Add Specification Section 074113 Metal Soffit, Wall Panels, & Roof Panels, Sheets 1-7.

END OF ADDENDUM NO. 4

SECTION 074113

Metal Soffit, Wall Panels and Roof Panels

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes metal soffit panels, metal wall panels, and standing seam metal roof at canopies.
- B. Section includes miscellaneous trim, flashing, closures, drip flashing, and accessories.

1.2 RELATED SECTIONS

- A. Section 05120: Structural Steel Framing.
- B. Section 05500: Miscellaneous metal fabrication.
- C. Section 06100: Rough Carpentry.
- D. Section 07631: Flashing and Sheet Metal Gutters.

1.3 ASSEMBLY DESCRIPTION

- A. The assembly includes preformed sheet metal panels, related accessories, corners, miscellaneous flashing and attaching devices.

1.4 PREINSTALLATION MEETINGS

- A. Pre-installation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
- C. Samples: For each type of metal panel indicated.

1.6 INFORMATIONAL SUBMITTALS

- A. Product test reports.
- B. Warranties: Samples of special warranties.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. UL-Certified, Portable Roll-Forming Equipment: UL-certified, portable roll-forming equipment capable of producing metal panels warranted by manufacturer to be the same as factory-formed products. Maintain UL certification of portable roll-forming equipment for duration of work.
- C. Manufacturer: Company specializing in Architectural Sheet Metal Products with ten (10) years minimum experience.
- D. No product substitutions shall be permitted without meeting specifications.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Upon receipt of panels and other materials, installer shall examine the shipment for damage and completeness.
- B. Panels should be stored in a clean, dry place. One end should be elevated to allow moisture to run off.
- C. Panels with strippable film must not be stored in the open, exposed to the sun.
- D. Stack all materials to prevent damage and to allow for adequate ventilation.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592:
 - 1. Wind Loads: As indicated on Drawings.

2. Other Design Loads: As indicated on Drawings.

- B. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. (0.3 L/s per sq. m) when tested according to ASTM E 283.
- C. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E 331.
- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. 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 (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.2 SHEET MATERIALS

- A. Prefinished Metal shall be Hot-Dipped Galvanized - ASTM A446-85 Grade C G90 Coating A525-86 24 Gauge core steel or prefinished Galvalume - ASTM A792-86 AZ-55.
- B. Unfinished Metal shall be Grade C Galvalume ASTM 792-86, AZ 55, "Satin Finish".
- C. Finish shall be full strength Kynar 500 Fluoropolymer coating coating, applied by the manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.70 to 0.90 mil over 0.25 to 0.35 mil prime coat, to provide a total dry film thickness of 0.95 to 1.25 mil. Bottom side shall be coated with primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by the Kynar 500 finish supplier.
- D. Strippable film shall be applied to the top side of the painted coil to protect the finish during fabrication, shipping and field handling. This strippable film must be removed before installation.

2.3 METAL SOFFIT PANELS (AT ENTRY CANOPY & UNDERSIDE OF 2ND STORY)

- A. General: Provide metal soffit panels designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.
- B. Flush-Profile Metal Soffit Panels: Solid panels formed with vertical panel edges and a flat pan between panel edges; with flush joint between panels.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide the following:
 - a. Berridge L soffit and fascia system
 - b. MBCI; a division of NCI Building Systems, L.P. Artisan Series – L-12 Metal Soffit Panel
 - c. Finish: Match finish and color of metal wall panels. Standard color as selected by Architect.
 - 2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.

- a. Nominal Thickness: 24 gauge with smooth surface
 - b. Exterior Finish: Smooth, two-coat fluoropolymer
 - c. Color: To match existing roof trim colors. Contractor to coordinate with the Architect.
3. Panel Width: 12 inches (305 mm).
 4. Panel Thickness: 1 inches (25 mm).

2.4 METAL WALL PANELS (INTERIOR & EXTERIOR)

- A. General: Provide metal wall panels designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.
- B. Flush-Profile Metal Wall Panels: Solid panels formed with vertical panel edges and a flat pan between panel edges; with flush joint between panels.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide the following:
 - a. Berridge Manufacturing Company
Berridge Vee-Panel
 2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
 - a. Nominal Thickness: 22 gauge with smooth surface
 - b. Exterior Finish: Smooth, two-coat fluoropolymer
 - c. Pre-finished metal panels, standard color as selected by Architect.
 3. Panel Width: 10 7/8 inches (305 mm).
 4. Panel Thickness: 3/8 inches (25 mm).

2.5 STANDING SEAM METAL ROOF (AT CANOPIES)

- A. Standing Seam Metal Roof Panels: Similar to Berridge ZEE-Lock Double Lock Panel System. Formed with ribs at panels edges and between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels and engaging opposite edge of adjacent panels. Include accessories required for weathertight installation. Refer to Manufacturer recommendations for installation requirements.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide the following:
 - a. Berridge Manufacturing Company
Berridge ZEE Lock
 2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
 - a. Nominal Thickness: 22 gauge with smooth surface
 - b. Exterior Finish: Smooth, two-coat fluoropolymer
 - c. Color: Pre-finished metal panel, standard colors as selected by Architect.

2.6 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A 792/A 792M, Class AZ50 (Class AZM150) aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
 - 1. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Finish flashing and trim with same finish system as adjacent metal panels.
- D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.
- E. Panel Sealants: Provide sealant types recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
 - 1 Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/8 inch (3 mm) thick.
 - 2 Joint Sealant: ASTM C 920; as recommended in writing by metal panel manufacturer.
 - 3 Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.

2.7 FABRICATION

- A. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown.
- C. All exposed adjacent flashing shall be the same material and finish as the wall panels.
- D. Hem all exposed edges of flashing on underside, 1/2".
- E. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

- F. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weather tight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- G. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect substrate to certify clean and smooth, free of depressions, waves, or projections, level to +/- 1/4" in 20 feet.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.
 - 1. Soffit Framing: Wire tie or clip furring channels to supports, as required to comply with requirements for assemblies indicated.

3.3 METAL PANEL INSTALLATION

- A. Metal Soffit Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.
 - 1 Apply panels and associated items true to line for neat and weather tight enclosure.
 - 2 Install starter and edge trim before installing panels.
 - 3 Remove protective strippable film prior to installation of roof panels.
 - 4 Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal panels.
 - 5 Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
 - 6 Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
 - 7 Do not allow panels and trim to come into contact with dissimilar materials.
 - 8 Remove and replace any panels or components which are damaged beyond successful repair.
 - 9 Flash and seal metal wall panels with weather closures at eaves, rakes, and at perimeter of all openings. Fasten with self-tapping screws.
 - 10 Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete, and elsewhere as indicated; or, if not indicated, as necessary for waterproofing.
 - 11 Align bottom of metal wall panels and fasten with blind rivets, bolts, or self-drilling or self-tapping screws.
 - 12 Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.
 - 13 Installation shall be per manufacturer requirements as required for warranty.
- B. Watertight Installation:
 - 1 Apply a continuous ribbon of sealant or tape to seal lapped joints of metal panels, using sealant or

- tape as recommend by manufacturer on side laps of nesting-type panels and elsewhere as needed to make panels watertight.
- 2 Provide sealant or tape between panels and protruding equipment, vents, and accessories.
 - 3 At panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with sealant and fastened together by interlocking clamping plates.

- C. Accessory Installation: Install accessories with positive anchorage to building and weather tight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
- D. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.

3.4 METAL PANEL INSTALLATION

- A. Provide metal soffit panels the full width of soffits. Install panels perpendicular to support framing.
- B. Flash and seal metal soffit panels with weather closures where panels meet walls and at perimeter of all openings.
- C. Installation shall be per manufacturer requirements as required for warranty.

3.5 CLEANING

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. Clean any grease, finger marks, or stains from the panels per manufacturer's recommendations.
- C. Remove all scrap and construction debris from the site.

3.5 FINAL INSPECTION

- A. Final inspection will be performed by a firm appointed and paid for by the owner in accordance with Section 013100.

END OF SECTION 074213