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## NOTICE TO PROSPECTIVE CONTRACTORS

### Alpine Animal Shelter Construction, Alpine, Texas Addendum #2, March 2, 2010

This addendum shall be considered as part of the Drawings, General Documents, and Specifications for the above referenced project as though the items had been issued at the same time and incorporated integrally with the Drawings, General Documents, and Specifications. Wherein provisions of the following amendments contained in this Addendum differ from the provisions of the original Drawings, General Documents and Specifications, the provisions of this Addendum shall govern and take precedence.

Contractors are hereby notified that they are to make any adjustments in their estimates that they may deem necessary on account of this Addendum. It will be considered that each Contractor's Bid Proposal is submitted with full knowledge of all modifications and changes specified herein. This Addendum shall become a component of the Contract Documents.

This Addendum shall be inserted inside the front cover of the Contract Documents Project Manual by each prospective contractor.

**Item #1** – Section 11 00 00 EQUIPMENT: The Dryer specified in 2.2 H, Equipment and Appliances, in Section 11 00 00 EQUIPMENT is no longer available. The Dryer specification shall be changed to:

Kenmore White 7.3 cu. ft. Electric Dryer  
Sears Item #02680311000, Model #80311  
Kenmore White 13.7 inch Pedestal/Drawer  
Sears Item #02651022000, Model #51022

**Item #2** – Section 10 00 00 SPECIALTIES: The Pen Enclosures specified in 2.2 A, Components, in Section 10 00 00 SPECIALTIES are specified to be a non-standard height of 96 inches. The standard height of 78 inches shall be acceptable. The (24) Guillotine Doors specified in 2.2 B, Components, in Section 10 00 00 SPECIALTIES are specified with a back panel. The Guillotine Doors do not require a back panel, and shall be ordered as Guillotine Door Kits to install against the full height masonry wall.



# NaismithEngineering,Inc

**ENGINEERING ■ ENVIRONMENTAL ■ SURVEYING**

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**Item #3** – Alliance Steel Building Systems' AllianceLok 16 Panel with a Flat Pan is approved as a metal roof panel if installed over a solid substrate and if the metal roof panel can be supplied with a Satin Galvalume finish (not a paint finish).

**Item #4** – Frontier Steel Buildings Corporation is an approved manufacturer of the pre-engineered steel building. Their contact information is: Frontier Steel Buildings Corporation, 10940 South Parker Road, Parker, CO, 80134, (303) 754-1000, fax (720) 529-9000, www.frontierbuildings.com.

**Item #5** – The Affidavit of Non-Collusion form was inadvertently omitted from the initial bid package. The form is included with this addendum and shall be completed and included with each bid.

**Item #6** – A revised bid tabulation sheet is included with this addendum which includes blanks for bidder's company, contact person, etc. This revised form shall be used for the bids. An electronic version of the bid sheet in Microsoft Excel format is available on the project website.

**Item #7** – The attached specification "SECTION 13 34 19 METAL BUILDING SYSTEMS" shall be included in the project manual.

**Item #8** – As discussed in the pre-bid meeting, the City of Alpine or Brewster County may perform the site work and building pad construction to reduce overall costs. This is why "Earthwork and Site Preparation" is listed separately as Add Alternate No. 4 on the Bid Tabulation sheet. If the City or County performs the site work and building pad construction, the City, Contractor, and testing firm shall complete the attached "Subgrade Acceptance Form" prior to building construction.

**Item #9** – Question: Is this a Davis-Bacon wage scale job? Answer: No. Because the project is funded by City money, Davis-Bacon wages do not apply.



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**Item #10** – Question: Does this project require apprenticeship compliance? Answer: No. Because the project is funded by City money, apprenticeship compliance is not required.

**Item #11** – Question: What is the number of days to complete project? Are there liquidated damages? Answer: Per section §3.3 of AIA Document A101-2007 in the project manual, “the Contractor shall achieve Substantial Completion of the entire Work not later than Two Hundred Forty (240) days from the date of commencement”. Liquidated damages will be \$500 per day.

**Item #12** – Question: Is the geotechnical report available? Answer: Yes. The geotechnical report by Renewable Resource Consultants will be available at the project website at [www.neionline.com](http://www.neionline.com).

**Item #13** – Question: Is there a detail for the guillotine kennel doors? Answer: No. The kennel doors come as a complete unit and are already manufactured.

**Item #14** – Question: Please discuss in more detail the expansion joint between the office area and kennel area? Answer: The expansion joint shall be filled with pre-formed flexible joint filler. A metal cover is not required.

**Item #15** – Question: Where are suppliers for the decomposed granite parking lot? Answer: Most of the decomposed granite used in Texas comes from the Marble Falls area. A large supplier there is Collier Materials.

**Item #16** – Question: What provides the support of the crematorium exhaust fan as well as the roof curb? If it’s supported by the building how much does it weigh? The building provides support for these items. According to the Greenheck website, the GB-081-6 exhaust fan model weighs 58 pounds.

**Item #17** – Question: What is Pre-Weathered Galvalume? Answer: This is Berridge Manufacturing Company’s metallic finish per Section 07 42 13 Metal Wall Panels.



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**Item #18** – Question: Who will be providing the roof skylights and curbs? Answer: The General Contractor will.

**Item #19** – Question: Will you be using plywood deck or metal? Answer: The structural drawings specify metal decking.

**Item #20** – Question: If the deck is metal will you install insulation? If so how thick and what is it? Answer: Section 07 21 00 Thermal Insulation calls for single bubble, double foil reflective insulation between purlins and the metal deck.

**Item #21** – Question: Drawings A-16 and 17 show special shape gutter and rake details. Are we doing this or our own standard? Answer: Gutter and rake details shall be per architectural details on A16 and A17.

**Item #22** – Question: Sheet C06 specifies that the utility pipe casing extending 30 feet away from the building be steel. That will be expensive and require welding. Can PVC be used instead? Answer: Yes, PVC will be acceptable for utility casing.

**Item #23** – Question: Applicable code indicates that the gas line extending from the meter to the crematorium be 4-inch diameter pipe, but the plans call for 3-inch pipe. Please discuss. Answer: As provided by Mr. John Currie, P.E. "Our plans show a 3 inch (low pressure line 7" WC at 0.5" WC pressure drop) for piping from a pressure regulator on the outside of the crematorium building into the crematorium to the furnace, which by the 2006 IFGC is correct for approximately 40 feet in length.. We anticipated the piping from the main building to the crematorium building to be higher pressure. If the piping from the main building to the crematorium is to be low pressure (low pressure line 7" WC at 0.5" WC pressure drop) then it will have to be a 4 inch if the length is over 80 feet. If 2 PSI is used the piping can be as small as 1-1/2 inch from building to building for 80 LF up to 175 LF. Then with a regulator at the crematorium as we show it the piping would be increased to 3 inch for low pressure within the building." This issue shall be decided between the City, Contractor, and Southwest Texas Municipal Gas as utility construction begins. The City will install the gas and water lines up to the animal shelter building and crematorium.

SECTION 00311

**NON-COLLUSION AFFIDAVIT OF BIDDER**

State of \_\_\_\_\_ §

County of \_\_\_\_\_ §

\_\_\_\_\_, being duly sworn, deposes and says that:

- (1) He (she) is \_\_\_\_\_ of \_\_\_\_\_  
\_\_\_\_\_, the Bidder submitting the attached Proposal;
- (2) He (she) is fully informed respecting the preparation and contents of the attached Bid and any and all appurtenances thereof;
- (3) Such Bid is genuine and is not a collusive Bid;
- (4) Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with another Bidder, firm or person to submit a collusive Bid in connection with the Contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix an overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City or any other person interested in the proposed contract; and

- (5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Title)

**Subscribed and sworn** to me this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

By:

Notary Public in and for \_\_\_\_\_  
County, Texas

My Commission Expires

\*\*\* END OF SECTION \*\*\*

**CITY OF ALPINE, TEXAS  
 NAISMITH ENGINEERING, INC.  
 NEW ALPINE ANIMAL SHELTER CONSTRUCTION BID TABULATION  
 NEI JOB NO: 7846-26**

March 10, 2010, 3:00 p.m.  
 Alpine City Hall, 100 North 13th Street, Alpine, Texas 79830

BIDDERS INFORMATION
Company Name:
Address:
Primary Contact Person:
Phone and Email:

SIGNATURE OF BIDDER
DATE SUBMITTED

BIDDERS CHECKLIST	CHECK
Addendum Acknowledged	<input type="checkbox"/>
Statement of Bidder Qualifications	<input type="checkbox"/>
Affidavit of Non-Collusion	<input type="checkbox"/>
Bid Bond	<input type="checkbox"/>

Item No.	DESCRIPTION	Approximate Quantity	Unit	Unit Price	Total Amount
	<b>BASE BID</b>				
1	Cast-in-Place Concrete				
2	CMU Masonry				
3	Native Stone Masonry				
4	Structural Steel Framing				
5	Metal Fabrications				
6	Rough Carpentry				
7	Finish Carpentry				
8	Architectural Wood Casework				
9	Countertops				
10	FRP Paneling				
11	Water Repellants				
12	Thermal Insulation				
13	Weather Barriers				
14	Metal Wall Panels				
15	Standing Seam Metal Roofing				
16	Sheet Metal Flashing and Trim				
17	Ridge Ventilators				
18	Joint Sealants				
19	Hollow Metal Doors and Frames				
20	Wood Doors				
21	Aluminum Frame Windows				
22	Unit Skylights				
23	Door Hardware				
24	Gypsum Board Assemblies				
25	Non-Metal Structural Framing				
26	Plastering				
27	Tiling				
28	Acoustical Tile Ceilings and Baffles				
29	Painting and Coatings				
30	Specialties				
31	Signage				
32	Flagpoles				
33	Toilet Room Accessories				
34	Equipment				
35	Plumbing				
36	HVAC				
37	Electrical				
38	Exterior Improvements				
39	Pre-Cast Concrete Unit Pavers				
40	Site Utilities				
	<b>Total Base Bid</b>				
A1	<b>Add Alternative No. 1</b> Aboveground Rainwater Storage Tanks (Provide unit price for between one and six tanks)		EA		
B1	<b>Add Alternative No. 2</b> Crematorium - Includes Steel Building, Overhead Coiling Door, Crematory Incinerator, and Walk-in Freezer		EA		
C1	<b>Add Alternative No. 3</b> Landscape Planting		EA		
D1	<b>Add Alternative No. 4</b> Earthwork and Site Preparation		EA		

SECTION 13 34 19  
METAL BUILDING SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Structural-steel framing.
2. Coordinate Standing Seam Metal Roofing supplied under Section 07 61 03.
3. Coordinate installation of Corrugated Metal Wall Panels specified in Section 07 42 13.
4. Coordinate installation of Thermal Insulation specified in Section 07 21 00.
5. Coordinate installation of Doors and Frames specified in Section 08 11 13 and in Section 08 33 23.
6. Coordinate installation of Windows as specified in 08 41 13.
7. Coordinate Masonry Wainscot and Door Surrounds with erection of Steel.
8. Accessories.

1.2 SUBMITTALS

- A. Product Data: For each type of metal building system component.
- B. Shop Drawings: For metal building system components. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples: For each type of exposed finish required.
- D. Delegated-Design Submittal: For metal building systems indicated to comply with performance requirements and design criteria, including analysis data and calculations signed and sealed by the qualified professional engineer responsible for their preparation.
- E. Welding certificates.
- F. Metal Building System Certificates: For each type of metal building system, from manufacturer.
  1. Letter of Design Certification: Signed and sealed by a qualified professional engineer. Include the following:
    - a. Name and location of Project.
    - b. Order number.
    - c. Name of manufacturer.

- d. Name of Contractor.
- e. Building dimensions including width, length, height, and roof slope.
- f. Indicate compliance with AISC standards for hot-rolled steel and AISI standards for cold-rolled steel, including edition dates of each standard.
- g. Governing building code and year of edition.
- h. Design Loads: Include dead load, roof live load, collateral loads, roof snow load, deflection, wind loads/speeds and exposure, seismic design category or effective peak velocity-related acceleration/peak acceleration, and auxiliary loads (cranes).
- i. Load Combinations: Indicate that loads were applied acting simultaneously with concentrated loads, according to governing building code.
- j. Building-Use Category: Indicate category of building use and its effect on load importance factors.
- k. AISC Certification for Category MB: Include statement that metal building system and components were designed and produced in an AISC-Certified Facility by an AISC-Certified Manufacturer.

- G. Material test reports.
- H. Source quality-control reports.
- I. Field quality-control reports.
- J. Maintenance data.
- K. Warranties: Sample of special warranties.

### 1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer and member of MBMA.
  - 1. AISC Certification for Category MB: An AISC-Certified Manufacturer that designs and produces metal building systems and components in an AISC-Certified Facility.
  - 2. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.
- B. Erector Qualifications: An experienced erector who specializes in erecting and installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer.
- C. 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."
- D. Structural Steel: Comply with AISC 360, "Specification for Structural Steel Buildings," for design requirements and allowable stresses.

- E. Cold-Formed Steel: Comply with AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members" for design requirements and allowable stresses.
- F. Preinstallation Conference: Conduct conference at Project site.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Ceco Building Systems; Division of NCI Building Systems, L.P.
  - 2. Metallic Building Company; Division of NCI Building Systems, L.P.
  - 3. Nucor Building Systems.

### 2.2 METAL BUILDING SYSTEM PERFORMANCE

- A. Delegated Design: Design metal building system, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
  - 1. Design Loads: As indicated on Drawings.
  - 2. Deflection Limits: Design metal building system assemblies to withstand design loads with deflections no greater than the following:
    - a. Purlins and Rafters: Vertical deflection of 1/240 of the span.
    - b. Girts: Horizontal deflection of 1/240 of the span.
    - c. Metal Roof Panels: Vertical deflection of 1/240 of the span.
    - d. Metal Wall Panels: Horizontal deflection of 1/240 of the span.
    - e. Design secondary-framing system to accommodate deflection of primary framing and construction tolerances, and to maintain clearances at openings.
  - 3. Drift Limits: Engineer building structure to withstand design loads with drift limits no greater than the following:
    - a. Lateral Drift: Maximum of 1/300 of the building height.
  - 4. Metal panel assemblies shall withstand the effects of gravity loads and loads and stresses within limits and under conditions indicated according to ASTM E 1592.
- B. Seismic Performance: Metal building systems shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
- C. Thermal Movements: Allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling,

opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base engineering 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.
- D. Air Infiltration for Metal Wall Panels: Air leakage through assembly of not more than 0.06 cfm/sq. ft. of wall area when tested according to ASTM E 283 at static-air-pressure difference of 1.57 lbf/sq. ft.
- E. Water Penetration for Metal Roof Panels: No water penetration when tested according to ASTM E 1646 at test-pressure difference of 2.86 lbf/sq. ft.
- F. Water Penetration for Metal Wall Panels: No water penetration when tested according to ASTM E 331 at a wind-load design pressure of not less than 2.86 lbf/sq. ft.
- G. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for Class 90.
- H. Energy Performance: Provide roof panels with Solar Reflectance Index not less than 29 when calculated according to ASTM E 1980 based on testing identical products by a qualified testing agency.

### 2.3 STRUCTURAL-STEEL FRAMING

- A. Primary Framing: Manufacturer's standard primary-framing system, designed to withstand required loads and specified requirements. Primary framing includes transverse and lean-to frames; rafter, rake, and canopy beams; sidewall, intermediate, end-wall, and corner columns; and wind bracing.
1. General: Provide frames with attachment plates, bearing plates, and splice members. Factory drill for field-bolted assembly.
  2. Frame Configuration: Single gable.
  3. Exterior Column Type: Tapered.
  4. Rafter Type: Tapered.
- B. End-Wall Framing: Manufacturer's standard primary end-wall framing fabricated for field-bolted assembly.
- C. Secondary Framing: Manufacturer's standard secondary framing, including purlins, girts, eave struts, flange bracing, base members, gable angles, clips, headers, jamps, and other miscellaneous structural members. Unless otherwise indicated, fabricate framing from either cold-formed, structural-steel sheet or roll-formed, metallic-coated steel sheet, prepainted with coil coating.
- D. Bolts: Provide plain-finish bolts for structural-framing components that are primed or finish painted. Provide zinc-plated or hot-dip galvanized bolts for structural-framing components that are galvanized.

- E. Finish: Factory primed. Apply specified primer immediately after cleaning and pretreating.

## 2.4 ACCESSORIES

- A. General: Provide accessories as standard with metal building system manufacturer and as specified. Fabricate and finish accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes. Comply with indicated profiles and with dimensional and structural requirements.
  - 1. Form exposed sheet metal accessories that are without excessive oil-canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
- B. Pipe Flashing: Premolded, EPDM pipe collar with flexible aluminum ring bonded to base.

## 2.5 SOURCE QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to evaluate product.
- B. Special Inspector: Owner will engage a qualified special inspector to perform the following tests and inspections and to submit reports. Special inspector will verify that manufacturer maintains detailed fabrication and quality-control procedures and will review the completeness and adequacy of those procedures to perform the Work.
  - 1. Special inspections will not be required if fabrication is performed by manufacturer registered and approved by authorities having jurisdiction to perform such Work without special inspection.
    - a. After fabrication, submit copy of certificate of compliance to authorities having jurisdiction, certifying that Work was performed according to Contract requirements.
- C. Testing: Test and inspect shop connections for metal buildings according to the following:
  - 1. Bolted Connections: Shop-bolted connections shall be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
  - 2. Welded Connections: In addition to visual inspection, shop-welded connections shall be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at inspector's option:
    - a. Liquid Penetrant Inspection: ASTM E 165.
    - b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
    - c. Ultrasonic Inspection: ASTM E 164.

d. Radiographic Inspection: ASTM E 94.

- D. Product will be considered defective if it does not pass tests and inspections.
- E. Prepare test and inspection reports.

## 2.6 FABRICATION

- A. General: Design components and field connections required for erection to permit easy assembly.
  - 1. Mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and instruction manuals.
  - 2. Fabricate structural framing to produce clean, smooth cuts and bends. Punch holes of proper size, shape, and location. Members shall be free of cracks, tears, and ruptures.
- B. Tolerances: Comply with MBMA's "Metal Building Systems Manual" for fabrication and erection tolerances.
- C. Primary Framing: Shop fabricate framing components to size and section, with baseplates, bearing plates, stiffeners, and other items required for erection welded into place. Cut, form, punch, drill, and weld framing for bolted field assembly.
- D. Secondary Framing: Shop fabricate framing components to size and section by roll-forming or break-forming, with baseplates, bearing plates, stiffeners, and other plates required for erection welded into place. Cut, form, punch, drill, and weld secondary framing for bolted field connections to primary framing.

## PART 3 - EXECUTION

### 3.1 ERECTION OF STRUCTURAL FRAMING

- A. Erect metal building system according to manufacturer's written erection instructions and erection drawings.
- B. Do not field cut, drill, or alter structural members without written approval from metal building system manufacturer's professional engineer.
- C. Set structural framing accurately in locations and to elevations indicated, according to AISC specifications referenced in this Section. Maintain structural stability of frame during erection.
- D. Base and Bearing Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
  - 1. Set plates for structural members on wedges, shims, or setting nuts as required.

2. Tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
  3. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
- E. Align and adjust structural framing before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with framing. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
1. Level and plumb individual members of structure.
  2. Make allowances for difference between temperature at time of erection and mean temperature when structure will be completed and in service.
- F. Primary Framing and End Walls: Erect framing level, plumb, rigid, secure, and true to line. Level baseplates to a true even plane with full bearing to supporting structures, set with double-nutted anchor bolts. Use grout to obtain uniform bearing and to maintain a level base-line elevation. Moist-cure grout for not less than seven days after placement.
1. Make field connections using high-strength bolts installed according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for bolt type and joint type specified.
    - a. Joint Type: Snug tightened or pretensioned.
- G. Secondary Framing: Erect framing level, plumb, rigid, secure, and true to line. Field bolt secondary framing to clips attached to primary framing.
1. Provide rake or gable purlins with tight-fitting closure channels and fasciae.
  2. Locate and space wall girts to suit openings such as doors and windows.
  3. Locate canopy framing as indicated.
  4. Provide supplemental framing at entire perimeter of openings, including doors, windows, louvers, ventilators, and other penetrations of roof and walls.
- H. Bracing: Install bracing in roof and sidewalls where indicated on erection drawings.
1. Tighten rod and cable bracing to avoid sag.
  2. Locate interior end-bay bracing only where indicated.
- I. Framing for Openings: Provide shapes of proper design and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical and electrical work. Securely attach to structural framing.
- J. Erection Tolerances: Maintain erection tolerances of structural framing within AISC 303.
1. Install surface-mounted items after finishes have been completed on substrates involved.

### 3.2 ACCESSORY INSTALLATION

- A. General: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
  - 1. Install components required for a complete metal roof panel assembly, including trim, copings, ridge closures, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.
  - 2. Install components for a complete metal wall panel assembly, including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.
  - 3. Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with corrosion-resistant coating, by applying rubberized-asphalt underlayment to each contact surface, or by other permanent separation as recommended by manufacturer.
- B. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to panel as recommended by manufacturer.

### 3.3 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a qualified special inspector to perform special inspections.
- B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- C. Tests and Inspections:
  - 1. High-Strength, Field-Bolted Connections: Connections shall be tested and inspected during installation according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
  - 2. Welded Connections: In addition to visual inspection, field-welded connections shall be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at inspector's option:
    - a. Liquid Penetrant Inspection: ASTM E 165.
    - b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
    - c. Ultrasonic Inspection: ASTM E 164.
    - d. Radiographic Inspection: ASTM E 94.
- D. Product will be considered defective if it does not pass tests and inspections.
- E. Prepare test and inspection reports.

END OF SECTION 13 34 19

SECTION 13250

**BUILDING PAD CONSTRUCTION AND SUBGRADE  
ACCEPTANCE FORM**

**1. GENERAL**

This specification shall govern the installation of the compacted subgrade of the building pad for the Alpine Animal Shelter project. The City of Alpine and/or Brewster County may perform the rough site work and preparation of the compacted building pad subgrade to reduce overall costs of the project. If this occurs, this form shall be used to confirm that the contractor accepts the building pad construction prior to constructing the building.

**2. QUALITY CONTROL PERSONNEL REQUIREMENTS**

If site work is done by the City or County, the City will hire a Quality Control Organization (QCO) whose role and responsibilities are outlined in AIA Document A201-2007. The QCO will provide the quality control personnel meeting the requirements as set forth in the drawings and specifications.

**3. MATERIAL CONFORMANCE TESTS**

The City is responsible for coordinating the conformance sampling of the building subgrade materials. The QCO is responsible for coordinating the testing of the material samples and densities.

**4. REQUIRED MATERIAL PROPERTIES**

The building subgrade shall be constructed of material as shown on the plans. The City shall make adequate submittals to allow the Engineer/QCO to test the soil materials and determine that the soil materials comply with the specifications. The City shall obtain written concurrence from the Engineer/QCO that the material submittals conform to the specifications.

**5. INSTALLATION PROCEDURES**

The City is responsible for installing the building subgrade in accordance with the plans and specifications.

**6. QUALITY CONTROL TESTING REQUIREMENTS**

The QCO shall be responsible for performing the necessary quality assurance test prior to and during subgrade preparation. The QCO will be required to certify that, based on the testing they performed, the material was installed according to the plans and specifications.

## 7. ACCEPTANCE

The Contractor, QCO, and City shall complete the attached “subgrade acceptance form” prior to building construction.

\*\*\* END OF SECTION \*\*\*

DRAFT

ALPINE ANIMAL SHELTER  
THE CITY OF ALPINE, TEXAS  
**SUBGRADE ACCEPTANCE FORM**

PROJECT:

INSTALLER NAME:

INSTALLER ADDRESS:

SUBGRADE LOCATION:

**CONTRACTOR CERTIFICATION**

I, the undersigned representative of the Contractor, do hereby accept the surface of the compacted building pad to the limits described above as being suitable for building placement, in accordance with the project specifications.

SIGNATURE:

NAME:

TITLE:

DATE:

CERTIFICATION RECEIVED BY QUALITY CONTROL ENGINEER

SIGNATURE:

NAME:

TITLE:

DATE:

CERTIFICATION RECEIVED BY CITY (OWNER)

SIGNATURE:

NAME:

TITLE:

DATE: