ADDENDUM

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Weatherford High School Additions Multi-Purpose Activity Center and New Ag Science Center

CLIENT NAME: Weatherford Independent School District

LOCATION: Weatherford, Texas

PROJECT NUMBER: 1689-13-01 and 02

PROPOSAL DATE: Tuesday, September 12, 2017, 2:00 PM

ADDENDUM DATE: Wednesday, September 6, 2017

For additional information regarding this project, contact Tim Hopkins at 800.687.1229.

THIS ADDENDUM INCLUDES:

- Civil Items: 0 Pages
- Landscape Items: 0 Pages
- Structural Items: 0 Pages
- Architectural Items: 18 Pages
- Plumbing Items: 4 Pages
- Mechanical Items: 0 Pages
- Electrical Items: 3 Pages

AND ALL ATTACHED REVISED DRAWING REFERENCES IN THE ADDENDUM
ARCHITECTURAL ITEMS FOR ADDENDUM NO. 2

NOTICE TO PROPOSERS:

A. 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 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.

B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 2, Arch. Item 1: To the Project Manual Volume 2, Sections as listed below, Part 2 – Products;

Products listed herein are considered acceptable for conformance with the design concept of the project and general compliance with the information given in the contract documents. The manufacturer, supplier and installer are responsible for meeting all requirements given in the contract documents unless specifically noted in the written approval.

1) To Section 13 3419, "METAL BUILDING SYSTEMS,"
   Model Metal Building Systems as manufactured by American Standard Steel Building Systems.

AD No 2, Arch. Item 2: To the Project Manual Volume 1, Section 00 2116, “Instructions to Proposers,”

For Clarification, form 1295 is not to be turned in with the proposal. The awarded contractor will submit form 1295 during the contract negotiations.

AD No 2, Arch. Item 3: To the Project Manual Volume 1, Section 00 4200, “Proposal Form, Base Bid and Alternates,”

Replace the following specification section to Volume 1 in its entirely.

AD No 2, Arch. Item 4: To the Project Manual Volume 3, Section 07 2100, “Thermal Insulation,”

To 2.02, A, a., replace the Brand “PERIMATE” with CAVITYMATE.

AD No 2, Arch. Item 5: To the Project Manual Volume 3, Section 07 4213, “Metal Wall Panels,”

To 2.02, B, 1, a., replace “Santa Fe Wall Panel” with “Tuff Wall Panel”.

AD No 2, Arch. Item 6: To the Project Manual Volume 2, Section 08 4500, “Translucent Wall and Roof Assemblies,”

Replace the following specification section to Volume 2, New Multi-Purpose Activity Center, Section 08 4500 Translucent Wall and Roof Assemblies in its entirely.

AD No 2, Arch. Item 7: To the Project Manual Volume 3, Section 08 4500, “Translucent Wall and Roof Assemblies,”

Add the following specification section to Volume 3, New Ag Science Center, Section 08 4500 Translucent Wall and Roof Assemblies in its entirely.
AD No 2, Arch. Item 8: To the Project Manual Volume 2, Section 13 3419, “Metal Building Systems,”
To 2.04, B., 1., a, replace “Santa Fe Wall Panel” with “Tuff Wall Panel”.

DRAWINGS:

AD No 2, Arch. Item 9: To the Drawings, Sheet A6.1, “Wall Sections,”
To wall section A6.1/1, remove note “2” Rigid insul. Board over continuous weather barrier” in its entirely.

END OF ARCHITECTURAL ADDENDUM
SECTION 00 4200
PROPOSAL FORM
BASE BID AND ALTERNATES

DATE

1.01 TO: SHARON LANDRUM, DIRECTOR OF PURCHASING, WEATHERFORD ISD,

A. Having carefully examined the project manual, drawings, and related documents entitled: Weatherford High School Additions - New Multi-Purpose Activity Center and New Ag Science Center as prepared by Huckabee, as well as the premises and conditions affecting the work, the undersigned proposes to furnish all materials, labor and equipment, and perform all work required by the contract documents for the construction of the Weatherford High School Additions - New Multi-Purpose Activity Center and New Ag Science Center project, in accordance with said documents, of which this Proposal is a part, for the following sum:

Contractors shall submit Proposals for each Item; 1, 2 and a combination proposal price for both one and two if applicable. The Owner reserves the right to award each Proposal Item to an individual Contractor or the combination Proposal to a single Contractor to provide the best value to the District.

B. PROPOSAL ITEM NO. 1: For the construction of Weatherford High School Additions - New Multi-Purpose Activity Center for Weatherford ISD in compliance with and as shown on the drawings and herein specified for the sum of:

$__________________________

C. PROPOSAL ITEM NO. 2: For the construction of Weatherford High School Additions - New Ag Science Center for Weatherford ISD in compliance with and as shown on the drawings and herein specified for the sum of:

$__________________________

D. PROPOSAL ITEM NO. 3: For the construction of Weatherford High School Additions - New Multi-Purpose Activity Center and New Ag Science Center for Weatherford ISD in compliance with and as shown on the drawings and herein specified for the sum of:

$__________________________

E. ALTERNATES: New Multi-Purpose Activity Center
1. Alternate No. 1: Provide ACIP Piles as specified in Section 31 6316 and as detailed on the drawings in lieu of Drilled Piers, (choose one) Add / Deduct the sum of:

$__________________________

(choose one) Add / Deduct __________ consecutive calendar days if alternate is accepted.
F. **ALTERNATES: New Ag Science Center**
   1. Alternate No. 1: Provide relocation of existing pre-engineered canopy to south end of Ag Science Center. Refer to AS1.1 for current and new location. (choose one) Add / Deduct the sum of:

      $\underline{\text{__________________________}}$

      (choose one) **Add / Deduct** \underline{\text{__________}} consecutive calendar days if alternate is accepted.

   2. Alternate No. 2: Provide structural engineered canopy to the south end of Ag Science Center. (choose one) Add / Deduct the sum of:

      $\underline{\text{__________________________}}$

      (choose one) **Add / Deduct** \underline{\text{__________}} consecutive calendar days if alternate is accepted.

G. Refer to Section 01 1400 Work Restrictions for specific project schedule. The Contractor acknowledges that they have read and understand the project schedule as stated in Section 01 1400. Please initial as acknowledged \underline{\text{__________}} (initials).

H. The undersigned acknowledges \underline{\text{__________}} addenda to the project manual and drawings.

I. The undersigned agrees, if awarded the contract, to execute and deliver to the Owner, at the time of the signing of the contract, a Performance and Payment Bond of approved form through an approved bonding company duly authorized to do business in the State of Texas, and currently listed in the Department of Treasury Federal Register, which is acceptable surety within their Uni underwriting limitations on bonds, in favor of the Weatherford ISD as specified in the Instructions To Proposers contained in the project manual.

J. The undersigned further agrees that the Certified Check, Cashier’s Check, or Proposal (Bid) Bond in the amount of five (5%) percent of his Proposal, payable to the Weatherford ISD, accompanying this Proposal, is left in escrow with the Architect, that it’s amount is the measure of liquidated damages the Owner will sustain by the failure of the undersigned to execute and deliver the above-named agreement, or in furnishing the 100% Payment and Performance Bonds within ten (10) days of written notification of the award of the contract to him, then the Certified Check, Cashier’s Check, or Proposal Bond shall become the property of the Owner; but if this Proposal is not accepted within forty-five (45) days of the time set for the submission of proposals, or if the undersigned executes and delivers said contract and bonds, the check shall be returned to him on receipt thereof.

K. There shall be a built in contingency fund and allowance for each project within the proposers submission as specified in Section 01 2100-Allowances.

L. For each day that the completion of the project extends beyond the stipulated completion dates, the Contractor agrees to pay to the Owner the sum of one thousand and no/100 Dollars ($1,000.00) per day, and that this is the amount of liquidated damages the Owner will sustain for each day the time of completion of the project extends beyond the stipulated dates.

M. If he is notified of the acceptance of this Proposal within forty-five (45) days of the time set for the opening of proposals, he agrees to execute a contract for the above work for the above-stated compensation in the form of the Standard Agreement of the American Institute of Architects.

N. The undersigned agrees that the following unit prices may apply on any additions to, or deductions from the work, which prices shall include overhead, profit, taxes, and all other related costs. The unit prices shall be installed, in-place prices for materials/systems as specified. The quoted unit prices will be valid, and the quoted unit prices will be in force on any work. A singular cost shall be provided below to be used for both additions and deductions. If
different prices are provided for additions and deductions the average of the absolute values will be used. The materials and work shall be in compliance with the specifications. The Contractor shall not be compensated for work that is not authorized by the Architect or Owners Laboratory (e.g. over drilling of piers and additional concrete and reinforcement for over drilled piers)

### NEW MULTI-PURPOSE ACTIVITY CENTER

<table>
<thead>
<tr>
<th>UNIT PRICING MATERIAL/SYSTEM</th>
<th>UNITS</th>
<th>COST ($) /UNIT</th>
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<tr>
<td>Excavation (Dirt or Caliche)</td>
<td>Cubic Yard</td>
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<tr>
<td>Excavation (Rock)</td>
<td>Cubic Yard</td>
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<td>Backfilling (On Site)</td>
<td>Cubic Yard</td>
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<td>Reinforcing Steel, Straight or Bent</td>
<td>Pound</td>
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<td>Structural Concrete</td>
<td>Cubic Yard</td>
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<td>Uncased Drilled Piers - Complete including reinforcing, concrete, accessories and drilling</td>
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<td>18&quot; Diameter</td>
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<td>Auger Cast Grout Piles - Complete including reinforcing, grout, accessories and drilling</td>
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NEW AG SCIENCE CENTER

UNIT PRICING MATERIAL/SYSTEM | UNITS | COST ($) / UNIT
---|---|---
Excavation (Dirt or Caliche) | Cubic Yard | ______________________

Excavation (Rock) | Cubic Yard | ______________________

Backfilling (On Site) | Cubic Yard | ______________________

Reinforcing Steel, Straight or Bent | Pound | ______________________

Structural Concrete | Cubic Yard | ______________________

Uncased Drilled Piers - Complete including reinforcing, concrete, accessories and drilling
18" Diameter | Lineal Foot | ______________________

24" Diameter | Lineal Foot | ______________________

30" Diameter | Lineal Foot | ______________________

Cased Drilled Piers - Complete including reinforcing, concrete, accessories, drilling and casing
18" Diameter | Lineal Foot | ______________________

24" Diameter | Lineal Foot | ______________________

30" Diameter | Lineal Foot | ______________________

O. It is further agreed that extended periods of labor strikes, unusual and destructive weather conditions that are beyond the normal weather patterns, and other generally recognized "Acts of God" will be cause for an approved extension of the above-stipulated completion of time schedule. It is also agreed that a request for extension of time will be made in writing by the Contractor to the Architect within fifteen (15) days after the time of occurrence for any consideration to be given the request. It is agreed that no additional funds are allowed for Extensions of Time.

P. Contractor has read and agrees with all provisions and articles of the contract documents. Respectfully submitted,

Contractor: __________________________________________

Per: __________________________________________

Huckabee
VENDOR COMPLIANCE TO STATE LAW

Weatherford ISD

Please answer the following questions and return with this bid:

Texas law prohibits cities and governmental units from awarding contracts to a non-resident unless the amount of such proposal by a Texas resident by the amount the Texas resident would be required to underbid in the non-resident bidder's state. For information regarding this series of questions, see Article 601g of the Texas Civil Statutes.

Is your principal place of business in Texas? Yes  No  (Circle One)

If no, in which state is your principal place of business? __________

If your principal place of business is not Texas, does your state favor resident bidders in your state by some dollar increment or percentage? Yes  No  (Circle One)

If yes, what is that dollar increment or percentage? _____

AUTHORIZED SIGNATURE__________________________________________

NAME OF COMPANY_______________________________________

ADDRESS______________________________________

CITY_________________ STATE____ ZIP CODE____

DATE______________________
NOTIFICATION OF HAZARDOUS MATERIALS AFFIDAVIT

STATE OF TEXAS

_________ COUNTY

Before me, undersigned authority on this day personally appeared ______________________, known to me to be the person whose name is subscribed below, who, on oath stated:

“As the appropriate official of the company, contractor, or subcontractor submitting this affidavit in conjunction with a bid submitted to the Weatherford ISD, I acknowledge that this company, contractor, or subcontractor has been notified that copies of the Asbestos Hazard Emergency Response Act (AHERA) for the school(s) where such company, contractor or subcontractor has been contracted to perform work are available at the Weatherford ISD, Weatherford, Texas. I understand that it is our responsibility to familiarize ourselves with such plans and that it is our responsibility to inform every worker that we use on this project as to the availability of these plans.

We also acknowledge that we will be required to obtain clearance from the Weatherford ISD, prior to executing any work on this project.”

Name of Company: ____________________________________________________________

By: ________________________________________________________________

Title: ________________________________________________________________

STATE OF TEXAS

COUNTY OF ________

Sworn to and subscribed before my hand at ________________, Texas this the day of ________________, 20______, A.D.

______________________________________________________________

Notary Public in and for _________ County, Texas

END OF SECTION
CONFLICT OF INTEREST QUESTIONNAIRE  
For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

1. Name of vendor who has a business relationship with local governmental entity.

2. Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3. Name of local government officer about whom the information is being disclosed.

   _______________________________________________________________________

   Name of Officer

4. Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

   A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

      [ ] Yes  [ ] No

   B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

      [ ] Yes  [ ] No

5. Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6. Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7. _______________________________________________________________________

   Signature of vendor doing business with the governmental entity

   Date

---

FORM CIQ

OFFICE USE ONLY

Date Received

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www.ethics.state.tx.us

Revised 11/30/2015
CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): “Business relationship” means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:
(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
(B) a transaction conducted at a price and subject to terms available to the public; or
(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):
(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:
***
(2) the vendor:
(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds $2,500 during the 12-month period preceding the date that the officer becomes aware that
(i) a contract between the local governmental entity and vendor has been executed; or
(ii) the local governmental entity is considering entering into a contract with the vendor;
(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than $100 in the 12-month period preceding the date the officer becomes aware that:
(i) a contract between the local governmental entity and vendor has been executed; or
(ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)
(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:
(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
(3) has a family relationship with a local government officer of that local governmental entity.
(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:
(1) the date that the vendor:
(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or
(2) the date the vendor becomes aware:
(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
(B) that the vendor has given one or more gifts described by Subsection (a); or
(C) of a family relationship with a local government officer.
SECTION 08 4500
TRANSLUCENT WALL AND ROOF ASSEMBLIES

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes the translucent sandwich panel canopy system and accessories as shown and specified. Work includes providing and installing:
   1. 2 ¾” factory prefabricated structural translucent sandwich panels
   2. Aluminum installation system
   3. Aluminum flashing attached to canopies

1.02 SUBMITTALS

A. Submit manufacturer’s product data. Include construction details, material descriptions, profiles and finishes of canopy components.
B. Submit shop drawings. Include elevations and details.
C. Submit manufacturer's color charts showing the full range of colors available for factory-finished aluminum.
   1. When requested, submit samples for each exposed finish required, in same thickness and material indicated for the work and in size indicated below. If finishes involve normal color variations, include sample sets consisting of two or more units showing the full range of variations expected.
      a. Sandwich panels: 14” x 28” units
      b. Factory finished aluminum: 5” long sections
D. Submit Installer Certificate, signed by installer, certifying compliance with project qualification requirements.
E. Submit product reports from a qualified independent testing agency indicating each type and class of panel system complies with the project performance requirements, based on comprehensive testing of current products. Previously completed reports will be acceptable if for current manufacturer and indicative of products used on this project.
   1. Reports required are:
      b. Flame Spread and Smoke Developed (UL 723) - Submit UL Card
      c. Burn Extent (ASTM D 635)
      d. Color Difference (ASTM D 2244)
      e. Impact Strength (UL 972)
      f. Bond Tensile Strength (ASTM C 297 after aging by ASTM D 1037)
      g. Bond Shear Strength (ASTM D 1002)
      h. Beam Bending Strength (ASTM E 72)
      i. Fall Through Resistance (ASTM E 661)
      j. Insulation U-Factor (NFRC 100)
      k. Solar Heat Gain Coefficient (NFRC or Calculations)
      l. Class A Roof Covering Burning Brand (ASTM E 108)
      m. UL Listed Class A Roof System (UL 790) - Submit UL Card
      n. LEED Credits

1.03 QUALITY ASSURANCE

A. Manufacturer's Qualifications
   1. Material and products shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a period of at least ten consecutive years and which can show evidence of those materials being satisfactorily used on at least six projects of similar size, scope and location. At least three of the projects shall have been in successful use for ten years or longer.
2. Panel system must be listed by an ANSI accredited Evaluation Service, which requires quality control inspections and fire, structural and water infiltration testing of sandwich panel systems by an accredited agency.
3. Quality control inspections shall be conducted at least once each year and shall include manufacturing facilities, sandwich panel components and production sandwich panels for conformance with AC177 “Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems” as issued by the ICC-ES.

B. Installer’s Qualifications: Installation shall be by an experienced installer, which has been in the business of installing specified systems for at least two consecutive years and can show evidence of satisfactory completion of projects of similar size, scope and type.

1.04 PERFORMANCE REQUIREMENTS
A. The manufacturer shall be responsible for the configuration and fabrication of the complete canopy panel system.
1. When requested, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
2. Structural Loads; Provide canopy system capable of handling the following loads:
   a. Live Load: 20 PSF
   b. Snow Load: 5 PSF; Drift Load: 20 PSF
   c. Wind Load: 25 PSF (ASD)

1.05 DELIVERY STORAGE AND HANDLING
A. Deliver panel system, components and materials in manufacturer's standard protective packaging.
B. Store panels on the long edge; several inches above the ground, blocked and under cover in accordance with manufacturer's storage and handling instructions.

1.06 WARRANTY
A. Submit manufacturer's and installer's written warranty agreeing to repair or replace panel system work, which fails in materials or workmanship within one year of the date of delivery. Failure of materials or workmanship shall include excessive deflection; deterioration of finish on metal in excess of normal weathering; and defects in accessories, translucent sandwich panels, and other components of the work.

PART 2 - PRODUCTS

2.01 MANUFACTURER
C. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PANEL COMPONENTS
A. Face Sheets
1. Translucent faces (Exterior and Interior): Manufactured from glass fiber reinforced thermoset resins, formulated specifically for architectural use.
   a. Thermoplastic (e.g. polycarbonate, acrylic) faces are not acceptable.
   b. Face sheets shall not deform, deflect or drip when subjected to fire or flame.
   c. Flame spread: Underwriters Laboratories (UL) listed, which requires periodic unannounced retesting, with flame spread rating no greater than 25 when tested in accordance with UL 723.
   d. Burn extent by ASTM D 635 shall be no greater than 1”.
   e. Exterior face sheets:
      1) Color stability: Full thickness of the face sheets shall not change color more than 3 CIE Units DELTA E by ASTM D 2244 after 3 years outdoor South Florida weathering at 5° facing south, determined by the average of at least three white
samples with and without a protective film or coating to ensure long-term color stability. Color stability shall be unaffected by abrasion or scratching.

2) Strength: Exterior face sheet shall be uniform in strength, impenetrable by hand held pencil and repel an impact minimum of 70 ft. lbs. without fracture or tear when impacted by a 3-1/4" diameter, 5 lb. free-falling ball per UL 972.

f. Appearance:
1) Exterior face sheets: Smooth, .070 thick and "crystal" in color,
2) Interior face sheets: Smooth, .045 thick and "white" in color,
3) Face sheets shall not vary more than ± 10% in thickness and be uniform in color.

B. Grid Core
1. Aluminum I-beam grid core shall be of 6063-T6 or 6005-T5 alloy and temper with provisions for mechanical interlocking of muntin-mullion and perimeter. Width of I-beam shall be no less than 7/16".

C. Laminate Adhesive
1. Heat and pressure resin type adhesive engineered for structural sandwich panel use, with minimum 25-years field use. Adhesive shall pass testing requirements specified by the International Code Council "Acceptance Criteria for Sandwich Panel Adhesives".
2. Minimum tensile strength of 750 PSI when the panel assembly is tested by ASTM C 297 after two exposures to six cycles each of the aging conditions prescribed by ASTM D 1037.
3. Minimum shear strength of the panel adhesive by ASTM D 1002 after exposure to four separate conditions:
   a. 50% Relative Humidity at 68° F: 540 PSI
   b. 182° F: 100 PSI
   c. Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI
   d. Accelerated Aging by ASTM D 1037 at 182° F: 250 PSI

2.03 PANEL CONSTRUCTION
A. Provide non-thermally broken sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge.
1. Thickness: 2-3/4"
2. Light transmission: 15%
3. Panel U-factor: .22
4. Grid pattern: Nominal size: 12x 24; Pattern "Shoji"

B. Standard panels shall deflect no more than 1.9" at 30 PSF in 10’ 0” span without a supporting frame by ASTM E 72.

C. Standard panels shall withstand 1200° F fire for minimum one hour without collapse or exterior flaming.

2.04 BATTENS AND PERIMETER CLOSURE SYSTEM
A. Closure system:
1. Extruded aluminum 6063-T6 and 6063-T5 alloy and temper clamp-tite screw type closure system.

B. Sealing tape: Manufacturer's standard, pre-applied to closure system at the factory under controlled conditions.

C. Fasteners: 300 series stainless steel screws for aluminum closures, excluding final fasteners to the building.

D. Finish:
1. Manufacturer's factory applied finish, which meets the performance requirements of AAMA 2604. Color to be selected from manufacturer's standards.
PART 3 - EXECUTION

3.01 EXAMINATION
A. Installer shall examine substrates, supporting structure and installation conditions.
B. Do not proceed with panel installation until unsatisfactory conditions have been corrected.

3.02 PREPARATION
A. 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.
   2. Where aluminum will contact concrete, masonry or pressure treated wood, protect against corrosion by painting contact surfaces with bituminous paint or method recommended by manufacturer.

3.03 INSTALLATION
A. Install the system in accordance with the manufacturer's suggested installation recommendations and approved shop drawings.
   1. Anchor component parts securely in place by permanent mechanical attachment system.
   2. Accommodate thermal and mechanical movements.
   3. Set perimeter framing in a full bed of sealant compound, or with joint fillers or gaskets to provide weather-tight construction.
B. Install joint sealants at perimeter joints and within the panel system in accordance with manufacturer's installation instructions.

3.04 CLEANING
A. Clean the canopy system interior and exterior, immediately after installation.
B. Refer to manufacturer's written recommendations.

END OF SECTION
SECTION 08 4500
TRANSLUCENT WALL AND ROOF ASSEMBLIES

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes the translucent sandwich panel canopy system and accessories as shown and specified. Work includes providing and installing:
   1. 2 ¾” factory prefabricated structural translucent sandwich panels
   2. Aluminum installation system
   3. Aluminum flashing attached to canopies

1.02 SUBMITTALS

A. Submit manufacturer’s product data. Include construction details, material descriptions, profiles and finishes of canopy components.

B. Submit shop drawings. Include elevations and details.

C. Submit manufacturer’s color charts showing the full range of colors available for factory-finished aluminum.
   1. When requested, submit samples for each exposed finish required, in same thickness and material indicated for the work and in size indicated below. If finishes involve normal color variations, include sample sets consisting of two or more units showing the full range of variations expected.
      a. Sandwich panels: 14” x 28” units
      b. Factory finished aluminum: 5” long sections

D. Submit Installer Certificate, signed by installer, certifying compliance with project qualification requirements.

E. Submit product reports from a qualified independent testing agency indicating each type and class of panel system complies with the project performance requirements, based on comprehensive testing of current products. Previously completed reports will be acceptable if for current manufacturer and indicative of products used on this project.
   1. Reports required are:
      b. Flame Spread and Smoke Developed (UL 723) - Submit UL Card
      c. Burn Extent (ASTM D 635)
      d. Color Difference (ASTM D 2244)
      e. Impact Strength (UL 972)
      f. Bond Tensile Strength (ASTM C 297 after aging by ASTM D 1037)
      g. Bond Shear Strength (ASTM D 1002)
      h. Beam Bending Strength (ASTM E 72)
      i. Fall Through Resistance (ASTM E 661)
      j. Insulation U-Factor (NFRC 100)
      k. Solar Heat Gain Coefficient (NFRC or Calculations)
      l. Class A Roof Covering Burning Brand (ASTM E 108)
      m. UL Listed Class A Roof System (UL 790) - Submit UL Card
      n. LEED Credits

1.03 QUALITY ASSURANCE

A. Manufacturer's Qualifications
   1. Material and products shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a period of at least ten consecutive years and which can show evidence of those materials being satisfactorily used on at least six projects of similar size, scope and location. At least three of the projects shall have been in successful use for ten years or longer.
2. Panel system must be listed by an ANSI accredited Evaluation Service, which requires quality control inspections and fire, structural and water infiltration testing of sandwich panel systems by an accredited agency.

3. Quality control inspections shall be conducted at least once each year and shall include manufacturing facilities, sandwich panel components and production sandwich panels for conformance with AC177 “Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems” as issued by the ICC-ES.

B. Installer’s Qualifications: Installation shall be by an experienced installer, which has been in the business of installing specified systems for at least two consecutive years and can show evidence of satisfactory completion of projects of similar size, scope and type.

1.04 PERFORMANCE REQUIREMENTS

A. The manufacturer shall be responsible for the configuration and fabrication of the complete canopy panel system.

1. When requested, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

2. Structural Loads; Provide canopy system capable of handling the following loads:
   a. Live Load: 20 PSF
   b. Snow Load: 5 PSF; Drift Load: 20 PSF
   c. Wind Load: 25 PSF (ASD)

1.05 DELIVERY STORAGE AND HANDLING

A. Deliver panel system, components and materials in manufacturer's standard protective packaging.

B. Store panels on the long edge; several inches above the ground, blocked and under cover in accordance with manufacturer's storage and handling instructions.

1.06 WARRANTY

A. Submit manufacturer's and installer's written warranty agreeing to repair or replace panel system work, which fails in materials or workmanship within one year of the date of delivery. Failure of materials or workmanship shall include excessive deflection; deterioration of finish on metal in excess of normal weathering; and defects in accessories, translucent sandwich panels, and other components of the work.

PART 2 - PRODUCTS

2.01 MANUFACTURER


C. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PANEL COMPONENTS

A. Face Sheets

1. Translucent faces (Exterior and Interior): Manufactured from glass fiber reinforced thermoset resins, formulated specifically for architectural use.
   a. Thermoplastic (e.g. polycarbonate, acrylic) faces are not acceptable.
   b. Face sheets shall not deform, deflect or drip when subjected to fire or flame.
   c. Flame spread: Underwriters Laboratories (UL) listed, which requires periodic unannounced retesting, with flame spread rating no greater than 25 when tested in accordance with UL 723.
   d. Burn extent by ASTM D 635 shall be no greater than 1”.
   e. Exterior face sheets:
      1) Color stability: Full thickness of the face sheets shall not change color more than 3 CIE Units DELTA E by ASTM D 2244 after 3 years outdoor South Florida weathering at 5° facing south, determined by the average of at least three white
samples with and without a protective film or coating to ensure long-term color stability. Color stability shall be unaffected by abrasion or scratching.

2) Strength: Exterior face sheet shall be uniform in strength, impenetrable by hand held pencil and repel an impact minimum of 70 ft. lbs. without fracture or tear when impacted by a 3-1/4” diameter, 5 lb. free-falling ball per UL 972.

f. Appearance:
   1) Exterior face sheets: Smooth, .070 thick and "crystal" in color,
   2) Interior face sheets: Smooth, .045 thick and "white" in color,
   3) Face sheets shall not vary more than ± 10% in thickness and be uniform in color.

B. Grid Core
   1. Aluminum I-beam grid core shall be of 6063-T6 or 6005-T5 alloy and temper with provisions for mechanical interlocking of muntin-mullion and perimeter. Width of I-beam shall be no less than 7/16”.

C. Laminate Adhesive
   1. Heat and pressure resin type adhesive engineered for structural sandwich panel use, with minimum 25-years field use. Adhesive shall pass testing requirements specified by the International Code Council “Acceptance Criteria for Sandwich Panel Adhesives”.
   2. Minimum tensile strength of 750 PSI when the panel assembly is tested by ASTM C 297 after two exposures to six cycles each of the aging conditions prescribed by ASTM D 1037.
   3. Minimum shear strength of the panel adhesive by ASTM D 1002 after exposure to four separate conditions:
      a. 50% Relative Humidity at 68° F: 540 PSI
      b. 182° F: 100 PSI
      c. Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI
      d. Accelerated Aging by ASTM D 1037 at 182° F: 250 PSI

2.03 PANEL CONSTRUCTION
A. Provide non-thermally broken sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge.
   1. Thickness: 2-3/4”
   2. Light transmission: 15%
   3. Panel U-factor: .22
   4. Grid pattern: Nominal size: 12x 24; Pattern "Shoji"

B. Standard panels shall deflect no more than 1.9” at 30 PSF in 10’ 0” span without a supporting frame by ASTM E 72.

C. Standard panels shall withstand 1200° F fire for minimum one hour without collapse or exterior flaming.

2.04 BATTENS AND PERIMETER CLOSURE SYSTEM
A. Closure system:
   1. Extruded aluminum 6063-T6 and 6063-T5 alloy and temper clamp-tite screw type closure system.

B. Sealing tape: Manufacturer’s standard, pre-applied to closure system at the factory under controlled conditions.

C. Fasteners: 300 series stainless steel screws for aluminum closures, excluding final fasteners to the building.

D. Finish:
   1. Manufacturer’s factory applied finish, which meets the performance requirements of AAMA 2604. Color to be selected from manufacturer’s standards.
PART 3 - EXECUTION

3.01 EXAMINATION
   A. Installer shall examine substrates, supporting structure and installation conditions.
   B. Do not proceed with panel installation until unsatisfactory conditions have been corrected.

3.02 PREPARATION
   A. 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.
      2. Where aluminum will contact concrete, masonry or pressure treated wood, protect against corrosion by painting contact surfaces with bituminous paint or method recommended by manufacturer.

3.03 INSTALLATION
   A. Install the system in accordance with the manufacturer's suggested installation recommendations and approved shop drawings.
      1. Anchor component parts securely in place by permanent mechanical attachment system.
      2. Accommodate thermal and mechanical movements.
      3. Set perimeter framing in a full bed of sealant compound, or with joint fillers or gaskets to provide weather-tight construction.
   B. Install joint sealants at perimeter joints and within the panel system in accordance with manufacturer's installation instructions.

3.04 CLEANING
   A. Clean the canopy system interior and exterior, immediately after installation.
   B. Refer to manufacturer's written recommendations.

END OF SECTION
PLUMBING ITEMS FOR ADDENDUM NO. 2

NOTICE TO PROPOSERS:

A. 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 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.

B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer’s proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 2, Plumb. Item 1: To the Project Manual Volume 2, Section 223000, “Plumbing”;
Refer to Paragraph 2.08 and change to read as follows:
“2.08 TRAP GUARDS
A. Provide trap guards at each p-trap. Trap guards shall be “Pro-Set” trap guards, or approved equal.”

AD No 2, Plumb. Item 2: To the Project Manual Volume 3, Section 223000, “Plumbing”;
Refer to Paragraph 2.09 and change to read as follows:
“2.09 TRAP GUARDS
B. Provide trap guards at each p-trap. Trap guards shall be “Pro-Set” trap guards, or approved equal.”

DRAWINGS:

AD No 2, Plumb. Item 3: To the Drawings, Sheet P2.1, “Floor Plan - Plumbing,” A New Ag Science Center
Drawing is reissued, as follows:
1) Delete requirement for “RPZ” backflow preventer and anti-flood valve. The backflow preventer is now located outside of the building under the civil part of the contract. Refer to civil drawings.
2) Added “General Notes” for trench & backfill.

AD No 2, Plumb. Item 4: To the Drawings, Sheet FP1.1, “Master Plan – Fire Protection,” A New Ag Science Center
Drawing is reissued, as follows:
1) Changed size of fire department connection service line to 4” on the Fire Riser Diagram.
2) Delete requirement for double detector check valve on Fire Riser Diagram. The backflow preventer is now located outside of the building under the civil part of the project. Refer to civil drawings.

AD No 2, Plumb. Item 5: To the Drawings, Sheet P2.2, “Floor Plan – Sections 2 & 3 - Plumbing,” A New Multi-Purpose Activity Center
Drawing is reissued, as follows:
1) Added “General Notes” for trench and backfill.
2) Added note for floor drain “trap guard” to be provided in Rooms Riser 2.10 and Ext. Storage 2.11.

END OF PLUMBING ADDENDUM
ELECTRICAL ITEMS FOR ADDENDUM NO. 2

NOTICE TO PROPOSERS:

A. 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 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.

B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer’s proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

DRAWINGS:

AD No 2, Elec. Item 1: To the Drawings, Sheet MEP1.1, “Site Plan – Mechanical & Electrical,” A New Ag Science Center. Drawing is reissued, revising drawing to depict new routing of electrical service.

AD No 2, Elec. Item 2: To the Drawings, Sheet E2.1, “Floor Plan – Power,” A New Multi-Purpose Activity Center. Drawing is reissued, revising drawing to support play clock.

END OF ELECTRICAL ADDENDUM
REQUIREMENTS PRIOR TO ROUGH-IN.

A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER FOR PLAY CLOCK MOUNTED BEHIND CLOCK AT APPROX. 10'-0" A.F.F.

B. TECHNOLOGY OUTLETS INDICATED ARE ROUGH-IN ONLY. DEVICES AND CABLING ARE TO BE PROVIDED BY OTHERS. RUN 1" CONDUIT TO OFFICE 2.05. TERMINATE PER OWNER'S INSTRUCTION.

C. PROVIDE DEDICATED 120V, 20A POWER CIRCUITS AS REQUIRED FOR FIRE ALARM, EMS, ACCESS CONTROLS, SOUND AND SECURITY SYSTEMS. VERIFY INFORMATION.

D. PROVIDE AND INSTALL JUNCTION BOX WITH (1) 3/4" CONDUIT PATHWAY TO AN ACCESS CONTROL PANEL LOCATION IN ELECTRIC ROOM 2.09. COORDINATE CONDUIT PATHWAY WITH OTHERS. RUN 1" CONDUIT TO ACCESS CONTROL PANEL LOCATION IN ELECTRIC ROOM 2.09. COORDINATE CONDUIT PATHWAY WITH OTHERS. PROVIDE J-BOX AT 18" A.F.F. FOR MICROPHONE (BY OTHERS). RUN 1" CONDUIT TO OFFICE 2.05. TERMINATE PER OWNER'S INSTRUCTION.

E. TECHNOLOGY CONDUITS FOR INTERCONNECTING BUILDINGS ARE TO BE COORDINATED QUANTITY AND LOCATION OF ALL CONDUIT NIPPLES. CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE ON SITE TO EXTEND TO DECK. AT EACH LOCATION, SEAL WITH FIRE-RESISTIVE SEALANT TO WITHIN 12'-0" A.F.F. CONTRACTOR SHALL VERIFY EXACT MOUNTING HEIGHT BEFORE INSTALLATION.

F. ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE WITH OWNER'S REPRESENTATIVE AT JOBSITE ALL TECHNOLOGY LOCATIONS AND F. ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE WITH OWNER'S REQUIRED AND INDICATED ON PLANS. REFER TO MEP SITE PLAN FOR ROUTING.