This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, material suppliers and other parties shall be responsible for the entire addenda. The failure to list an item or items in all affected sections of the addenda does not relieve any party affected from performing as per instructions, provided the information is set forth one time in any place in the addenda. This document shall become part of the construction documents.

SPECIFICATIONS

TITLE PAGE – REPLACE WITH THE ATTACHED.

TABLE OF CONTENTS – DELETE SECTION 11 11 17 ELECTRONIC INTERACTIVE WHITE BOARDS.

01 10 00 ALTERNATES
1. Add the following:
   2.3 ALTERNATE NUMBER THREE:
   A. Provide all labor, materials, equipment, etc., for complete installation of CONCRETE FLATWORK in lieu of 02 51 40 - Paving Unit Pavers.

08 44 13 PRESSBOX GLAZED ALUMINUM CURTAIN WALLS
1. Add this section.

08 81 00 GLAZING
1. Replace Paragraph 2.1: B; 4. With the Following:
   4. Press Box Laminated Glass:
      a) Outer Layer Glass: 3/8” Glazing –
         (1) PPG Solargray Glass
         (2) Tempered ASTM C1048
      b) Ionoplast Interlayer: Kuraray SentryGlas® (SG5000) structural interlayer (90 Mil)
      c) Inner Layer Glass: 3/8” Glazing
         (1) Tempered ASTM C1048
         (2) #4 Surface Low-E Coating: “Solarban” 70XL Solar Control (Sputtered) by PPG Industries
      d) Structural Silicone Glazing: Dow Corning 895 Structural Glazing Sealant or equal

DRAWINGS

SHEET 1.7
1. Trees indicated as NEW TREE in LEGEND shall be: MONTERREY OAK – BURLAP BAGGED (6” CALIPER SHADE TREE) QUERCUS POLYMORPHA
2. Trees indicated as NEW TREE WITH CAST IRON GRATE shall be: MONTERREY OAK – BURLAP BAGGED (3” CALIPER SHADE TREE) QUERCUS POLYMORPHA
3. Clarification that permanent irrigation is provided to the new trees with grates. Per Legend note and per irrigation control panel note on sheet 8.1
4. Clarification that irrigation system can tie into existing water supply at or near frame house to be removed on demolition plan (sheet 1.3) along street Boren Ave (sheet 2.01).

SHEET 2.10 REPLACEMENT SHEET
1. French Drain Detail Revised.
2. Typical Safety Rail Detail: Change detail so that fall protection is vertical instead of horizontal. Verticals are 4” o.c. max; galvanized. Support Verticals into conc. base at top of wall shall be 48” o.c. Concrete base to be 12” dia x36” deep at top of segmented wall. Coord with segmented wall manufacturer.

SHEET 2.22
1. Delete detail for bollards. There are no bollards on the project.

SHEET 2.32 REPLACEMENT SHEET
1. French Drain Plan Provided.
SHEET 2.34 REPLACEMENT SHEET
  1. Square footage of rip-rap at outfall provided.

SHEET 2.40 REPLACEMENT SHEET
  1. Sanitary Sewer service press box revised.

SHEET 3.13
  1. Modify dimension from gridline C.8 to D to 1'-7".

SHEET 3.14
  1. Press Box Roof Framing Plan 1 - Modify dimension from gridline C.8 to F to 13'-10".

SHEET 3.42
  1. Section 01 - Modify note at window sill “C6x8.2 cont.” to “Sloped C6x8.2 cont.”. Slope to be 11 degrees.

SHEET 3.51
  1. Section 10 - Modify note at window head “L3x3x1/4 cont.” to “Sloped L3x3x1/4 cont.”. Slope to be 11 degrees.

SHEET 4.2
  1. Press Box Plan – Lower Level 1 - Modify dimension from gridlines C to C.8 to 10'-9" & C.8 to D to 1'-7".

SHEET 4.10
  1. Detail 04 - indicated wainscot tile to be 12"x12" WALL TILE, 7A.

SHEET 5.12
  1. Section 2 - Modify dimension near gridlines C.8 from 5" to 8".

SHEET 5.52 REPLACEMENT SHEET
  1. Replace details 15, 16, 17 & 18.

SHEET 8.1
  1. Keyed notes 7 and 8 are a part of alternate #1A. Keyed notes 18 and 19 are a part of alternate #1B.
  2. Keyed notes 15 & 16 are part of Alternate #s 1A & 1B.

END OF ADDENDUM
TITLE PAGE

PROJECT NUMBER:  21650
PROJECT NAME:  LIONS STADIUM RENOVATION - PHASE II
PROJECT LOCATION:  HENDERSON, TEXAS

NAME AND ADDRESS OF OWNER
KEITH BOLES, SUPERINTENDENT
HENDERSON ISD
200 N. MAIN ST.
HENDERSON, TX 75652
P: (903) 655-5000

NAME AND ADDRESS OF ARCHITECT
CLAYCOMB ASSOCIATES, INC.
6600 LBJ FREEWAY, SUITE #200
DALLAS TX  75240
P: (972) 233-6100

TITLE OF DOCUMENTS BOUND HEREWITH
Title Page
Table of Contents
Proposal Requirements
Contract Documents

DATE:  09/21/2017
PART 1. GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Aluminum curtain wall systems, complete with reinforcing, shims, anchors and attachment devices.
   2. Accessories necessary to complete Work.

1.2 REFERENCES

A. Aluminum Association (AA):
   1. DAF-45 Designation System for Aluminum Finishes.

B. American Architectural Manufacturers Association (AAMA):
   2. 501.2 Field Check of Metal Curtain Walls for Water Leakage.
   5. 607.1 Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
   7. 701.2 Specifications for Pile Weatherstripping.
   8. Manual #10 Care and Handling of Architectural Aluminum From Shop to Site.

C. American National Standards Institute (ANSI):

D. American Society for Testing and Materials (ASTM):
   1. A36 Structural Steel.
   2. B209 Aluminum and Aluminum-Alloy Sheet and Plate.
   5. C509 Cellular Elastomeric Pre-formed Gasket and Sealing Material.
   6. C864 Dense Elastomeric Compression Seal Gaskets, Setting Blocks and Spacers.
   8. E283 Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors.

E. Federal Specifications (FS):
   1. TT-P-645A Primer, Paint, Zinc Chromate, Alkyd Type.

F. Flat Glass Marketing Association (FGMA):

1.3 SYSTEM REQUIREMENTS

A. General Standard: In addition to requirements shown or specified, comply with applicable provisions of Aluminum Curtain Wall Design Guide Manual for design, materials, fabrication and installation of component parts.

B. Design Requirements:
   1. Metal stick framed systems with interior and exterior exposed metal framing.
   2. System manufacturer shall provide curtain wall systems, including necessary modifications to meet specified requirements and maintaining visual design concepts.
   3. Fabricate glazing systems for [interior] [exterior] glazing at vision areas and [interior] [exterior] glazing at spandrel areas.
   4. Perimeter conditions shall allow for installation tolerances, expansion and contraction of adjacent materials, and sealant manufacturer's recommended joint design.
   5. Drawings are diagrammatic and do not purport to identify nor solve problems of thermal or structural movement, glazing, anchorage or moisture disposal.
   6. Requirements shown by details are intended to establish basic dimension of unit, sight lines and profiles of members.
7. Do not assume glass, sealants and interior finishes contribute to framing member strength, stiffness or lateral stability.
8. Assemblies shall be free from rattles, wind whistles and noise due to thermal and structural movement and wind pressure.
9. Attachment considerations are to take into account site peculiarities and expansion and contraction movements so there is no possibility of loosening, weakening or fracturing connection between units and building structure or between units themselves.
10. Anchors, fasteners and braces shall be structurally stressed not more than 50% of allowable stress when maximum loads are applied.
11. Allow for expansion and contraction without detriment to appearance or performance.
12. System shall drain to the exterior of system any water entering system.
13. Provide concealed fastening.
14. Metal faces are required to be visually flat under all lighting conditions, subject to acceptance of Architect.
15. Provide uniform color and profile appearance at components exposed to view.
16. [Stresses placed on structural silicone sealants shall be kept within sealant manufacturer's recommended maximum.]
17. Not Permitted: Vibration harmonics, wind whistles, noises caused by thermal movement, thermal movement transmitted to other building elements, loosening, weakening, or fracturing of attachments or components of system.

C. Performance Requirements:
1. Air infiltration: Air leakage shall not exceed 0.06 cfm per square foot (0.0003 m3/sm2) of surface area when tested in accordance with ASTM E283 at differential static pressure of 6.24 psf (300 Pa).
2. Water infiltration: No uncontrolled water penetration when tested in accordance with ASTM E 331 at test pressure of 15.0 psf 479, or 20 percent of full positive design wind load, whichever is greater.

D. Structural Requirements:
1. Wind loading: Resist wind pressure per the tables on sheet 3.3
2. Deflection under uniform loading: When tested in accordance with ASTM E330 at design pressure, maximum deflection of exterior member shall not exceed 1/175 of span.
3. Deflection of members parallel to the plane of the wall, when carrying its full dead load, shall not exceed an amount that will reduce glass bite by less than 75 percent of the design dimension and shall not reduce edge clearance between itself and the panel, glass or other fixed member immediately below to less than 1/8 inch (3.2 mm).
4. Do not regard points of contraflexure as lateral braces or as end points of unbraced length; unbraced length is actual distance between effective lateral braces as defined above.
5. Where framing member reaction is resisted by continuous element, maximum assumed effective length of the resisting element is 4 times bearing length, but not more than 12 inches (305 mm).

E. Seismic Loads: Provide glazed aluminum curtain wall system, including anchorage, capable of withstanding the effects of earthquake motions. The curtain wall system shall exceed maximum seismic lateral displacement requirements specified in section 1628.8.2 of the Uniform Building Code, 1994 edition. Upon successful completion of Phase I seismic testing, the curtain wall shall once again be subjected to a must successfully pass the specified air and water tests before proceeding to Phase II seismic testing.

F. Thermal Requirements: Framing systems shall accommodate expansion and contraction movement due to surface temperature differential of 180 degree Fahrenheit (82 degree Celsius) without causing buckling, stress on glass, failure of joint seals, excessive stress on structural elements, reduction of performance or other detrimental effects.

G. Interface:
1. Furnish inserts and anchoring devices which need to be preset and built into structure to appropriate trade.
2. Supply on timely basis to avoid delay in Work.
3. Instruct other trades of proper location and position.
4. Furnish setting drawings, diagrams, templates and installation instructions.

1.4 SUBMITTALS
A. General: Submit in accordance with Section 01300.
B. Product Data:
1. Submit manufacturer's descriptive literature for each manufactured product.
2. Include information for factory finishes, accessories and other required components.
C. Shop Drawings:
1. Submit drawings indicating elevations, detailed design, dimensions, member profiles, joint locations, arrangement of units and member connections.
2. Show following items:
   a) Details of special shapes.
   b) Reinforcing.
   c) Anchorage system.
   d) Interfacing with building construction.
   e) Provisions for expansion and contraction.
3. Clearly indicate locations of exposed fasteners and joints for Architect's acceptance.
4. Clearly show where and how manufacturer's system deviates from Contract Drawings and these Specifications.

D. Samples:
   1. Submit samples indicating quality of finish, in required colors, on alloys used for work, in sizes as standard with manufacturer.
   2. Where normal texture or color variations are expected, include additional samples illustrating range of variation.
   3. [Submit samples of structural glazing gaskets, 12 inch (300 mm) lengths.]

1.5 QUALITY ASSURANCE
   A. Single Source Responsibility:
      1. To ensure quality of appearance and performance, obtain materials for each system from either a single manufacturer or from manufacturer approved by each system manufacturer.
   B. Installer Qualifications: Certified in writing by Contractor as qualified for installation of specified systems.
   C. Perform Work in accordance with manufacturer's written instructions.
   D. Conform to requirements of ANSI A117.1 and local amendments.

1.6 DELIVERY, STORAGE AND HANDLING
   A. Comply with requirements of Section 01600.
   B. Protect finished surfaces to prevent damage.
   C. Do not use adhesive papers or sprayed coatings which become firmly bonded when exposed to sun.
   D. Do not leave coating residue on surfaces.

1.7 PROJECT CONDITIONS
   A. Ensure ambient and surface temperatures and joint conditions are suitable for installation of materials.

1.8 WARRANTY
   A. Provide written manufacturer's warranty, executed by company official, warranting against defects in materials and products for 2 years from date of Substantial Completion. Warrant door corner construction for the life of the project.
   B. Provide written installer's warranty, warranting work to be watertight, free from defective materials, defective workmanship, glass breakage due to defective design, and agreeing to replace components which fail within 2 years from date of Substantial Completion.
      1. Warranty shall cover following:
         a) Complete watertight and airtight system installation within specified tolerances.
         b) Completed installation will remain free from rattles, wind whistles and noise due to thermal and wind pressure.
         c) System is structurally sound and free from distortion.
         d) Glass and glazing gaskets will not break or "pop" from frames due to design windload pressure, expansion or contraction movement, or structural loading.
   C. Provide a written thermal integrity warranty for 2 years from date of Substantial Completion against thermal barrier system failure resulting from the following:
      1. Longitudinal and transverse thermal barrier shrinkage.
      2. Thermal barrier cracking.
      3. Structural failure of the thermal barrier material.
      4. Loss of adhesion or loss of prescribed edge pressure on glazing material resulting in excessive air and water infiltration.
PART 2. PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

A. Subject to compliance with requirements indicated, provide products by one of following:
   1. U.S. Aluminum 2450 E. Vernon Ave Los Angeles, California 90058-1802 Toll Free Phone: (800) 262-5151 www.usalum.com

B. Acceptable Systems:
   1. Series 2200 Curtain Wall System Is a stick-erected Captured Vertical glazed curtain wall utilizing a pocket set design and E.P.D.M. compression glazing gaskets with reduced sightlines for low to mid-rise applications where exterior glazing is desired.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>FACE WIDTH</th>
<th>BACK MEMBER DEPTH</th>
<th>OVERALL DEPTH</th>
<th>GLAZING INFILL</th>
<th>GLAZING METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100</td>
<td>2&quot; (50.8)</td>
<td>2-7/8&quot; (73)</td>
<td>4&quot; (101.6)</td>
<td>4-15/16&quot; (125.4)</td>
<td>Exterior</td>
</tr>
<tr>
<td>2200</td>
<td>2&quot; (50.8)</td>
<td>2-7/8&quot; (73)</td>
<td>4&quot; (101.6)</td>
<td>4-15/16&quot; (125.4)</td>
<td>Exterior</td>
</tr>
</tbody>
</table>

2.2 FRAMING MATERIALS AND ACCESSORIES

A. Aluminum:
   1. ASTM B 221, alloy 6063-T5 for extrusions; ASTM B 209, alloy 5005-H34 for sheets; or other alloys and temper recommended by manufacturer appropriate for specified finish.

B. Internal Reinforcing:
   1. ASTM A 36 for carbon steel; or ASTM B 308 for structural aluminum.
   2. Shapes and sizes to suit installation.
   3. Shop coat steel components after fabrication with alkyd type zinc chromate primer complying with FS TT-P-645.

C. Inserts and Anchorage Devices:
   1. Manufacturer's standard formed or fabricated assemblies, steel or aluminum, of shapes, plates, bars or tubes.
   2. Shop coat steel assemblies after fabrication with alkyd type zinc chromate primer complying with FS TT-P-645

D. Fasteners:
   1. Aluminum, non-magnetic stainless steel or other materials warranted by manufacturer to be non-corrosive and compatible with components being fastened.
   2. Do not use exposed fasteners, except where unavoidable for application of hardware.
   3. For exposed locations, provide countersunk Phillips head screws with finish matching items fastened.
   4. For concealed locations, provide manufacturer's standard fasteners.
   5. Provide nuts or washers of design having means to prevent disengagement; deforming of fastener threads is unacceptable.

E. Expansion Anchor Devices: Lead-shield or toothed-steel, drilled-in, expansion bolt anchors.

F. Shims: Non-staining, non-ferrous, type as recommended by system manufacturer.

G. Protective Coatings: Cold applied asphalt mastic complying with SSPC-Paint 12, compounded for 30 mil (0.77 mm) thickness for each coat; or alkyd type zinc chromate primer complying with FS TT-P-645.

H. Glazing Gaskets:
   1. Compression type design, replaceable, molded or extruded neoprene, or ethylene propylene diene monomer (EPDM).
   2. Comply with ASTM C509 or C864.
   3. Profile and hardness as necessary to maintain uniform pressure for watertight seal.
   4. Provide in manufacturer's standard black color.
   5. Factory molded corners required at exterior.

I. Internal Sealants: Types recommended by sealant manufacturer to remain permanently elastic, tacky, non-drying, non-migrating and weathertight.

J. "Anti-Walk" Edge Blocking: "W" shaped E.P.D.M. blocks for use in keeping glazing material stationary under vibration or seismic loading. Edge blocking may be used for pressure plate systems.

K. Take accurate field measurements to verify required dimensions prior to fabrication.

L. Provide rigid, thermal break isolators to prevent exterior and interior aluminum framing members from being in contact with each other.

PRESSBOX GLAZED ALUMINUM CURTAIN WALLS 08 44 13
M. Fabricate components in accordance with approved shop drawings. Remove burrs and smooth edges. Shop fabricate to greatest extent practicable to minimize field cutting, splicing and assembly. Disassemble only to extent necessary for shipping and handling limitations.

N. Steel Components:
1. Clean surfaces after fabrication and immediately prior to application of primer in accord with SSPC-SP2 or SSPC-SP3 at manufacturer's option.
2. Apply specified shop coat primer in accord with manufacturer's instructions to provide 2.0 mil (0.050 mm) minimum dry film thickness.

O. Fabricate components true to detail and free from defects impairing appearance, strength or durability. Fabricate custom extrusions indicated and as necessary for complete installation.

P. Fabricate components to allow for accurate and rigid fit of joints and corners. Match components carefully ensuring continuity of line and design. Ensure joints and connections will be flush and weathertight. Ensure slip joints make full, tight contact and are weathertight.

Q. Reinforce components as required at anchorage and support points, at joints, and at attachment points for interfacing work.

R. Provide structural reinforcing within framing members where required to maintain rigidity and accommodate design loads.

S. Provide holes or slots, deflector plates, water deflectors, and sealants to accommodate internal weep and drainage to the exterior of curtain wall system.

T. Allow for adequate clearance around perimeter of system to enable proper installation and for thermal movement within system.

U. Separate dissimilar metals with protective coating or pre-formed separators to prevent contact and corrosion.

2.3 FINISH

A. Clear Anodized: Conforming to AA-M12C22A31 and AAMA 607.1.

PART 3. EXECUTION

3.1 EXAMINATION

A. Examine conditions and proceed with Work in accordance with Section 01400.
B. Verify dimensions, tolerances and method of attachment with other Work.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions and applicable provisions of AAMA Aluminum Curtain Wall Design Guide Manual.
B. Align assemblies plumb and level, free of warp or twist, aligning with adjacent Work.
C. Tolerances:
   1. Limit variations from plumb and level:
      a) 1/8 inch in 20 feet (3 mm in 6 M) vertically and horizontally.
      b) 1/4 inch in 40 feet (6 mm in 12 M) either direction.
   2. Limit offsets in theoretical end-to-end and edge-to-edge alignment:
      a) 1/16 inch (2 mm) where surfaces are flush or less than 1/2 inch (13 mm) out of flush and separated by not more than 2 inches (51 mm).
      b) 1/8 inch (3 mm)
      c) for surfaces separated by more than 2 inches (51 mm).
   3. Step in face: 1/16 inch (2 mm) maximum.
   4. Jog in alignment: 1/16 inch (2 mm) maximum.
   5. Location: 1/4 inch (6 mm) maximum deviation of any member at any location.
   6. Tolerances are not accumulative.
D. Provide attachments and shims to permanently fasten system to building structure.
E. Anchor securely in place, allowing for required movement, including expansion and contraction.
F. Separate dissimilar materials at contract points, including metal in contact with masonry or concrete surfaces, with protective coating or pre-formed separators to prevent contact and electrolytic action.
G. Seal perimeter members as shown on manufacturer's installation instructions or as required for unique job conditions. Set other members with internal sealants and baffles as called for in manufacturer's installation instructions.
H. Provide adequate support for all the aluminum frames, glass deadloads, and for the end reactions to specified windloads.
I. Glazing:
   1. Install glazing gaskets and sealants in accordance with manufacturer’s instructions without exception, including surface preparations. Refer to Section 08810 for additional requirements. Utilize “anti-walk” edge blocking on all vertical edges of glazing.

3.3 FIELD TESTS:
   A. Independent testing laboratory will perform [air infiltration,] [water infiltration] [and] hose test; refer to Section 01400 for requirements.

3.4 CLEANING
   A. Clean surfaces in compliance with manufacturer’s recommendations; remove excess mastic, mastic smears and other foreign materials.
   B. Clean metal surfaces exercising care to avoid damage.

END OF SECTION