This Addendum forms a part of the Contract Documents. It modifies the original Project Manual and Drawings, as well as any Addendum previously issued, as noted below. Bidders are required to acknowledge receipt of this Addendum in the space provided in the proposal form. Failure to acknowledge receipt of each addendum may subject bidder to disqualification.

**CLARIFICATIONS:**

**Item No. 2-01:** The bid period has been extended. Bids will be opened on May 24, 2019 at 2:00pm.

*Time is of the essence in this contract. Time of completion for this project shall be 64 Calendar Days. WORK TO BEGIN ON JUNE 14, 2019 AND COMPLETED ON OR BEFORE AUGUST 17, 2019. Both portions of work to be completed within this timeframe.*

**Item No. 2-02:** Pre-Bid Walk Attendees Sign-In Sheet.

**Item No. 2-03:** Contractor to protect all floors from all equipment and damage throughout construction. Photographs and video of existing condition to be provided to the district prior to construction starting. All damage to be repaired by
the contractor at contractor's cost. Minimum 6 mill plastic sheet to be provided under work areas.

Item No. 2-04: The metal panel installed on the project is Centria BR5-36 and MR3-36. Technical data sheets are attached.

DRAWINGS:

Item No. 2-05: Refer to Plan Sheet M0.2 – Mechanical Schedules

A. Add Pump and VFD Schedules per attached Addendum drawing M0.2A, see EXHIBIT 2-01. The equipment is provided by the owner and shall be picked up by Contractor at District Warehouse. The equipment is already at Warehouse. The demolition of existing pumps, piping and valves shall be by Contractor. The installation of pumps, VFD’s, piping and valves shall also be by Contractor.

Item No. 2-06: Refer to Plan Sheet M0.4 – Mechanical Details

A. Add Pump Detail 6/M0.4 per attached Addendum drawing M0.4A, see EXHIBIT 2-02.
B. Add VFD Rack Detail 7/M0.4 per attached Addendum drawing M0.4B, see EXHIBIT 2-03.

Item No. 2-07: Refer to Plan Sheet M0.5 thru M0.9 – EMS Details

A. Details on drawings are for Basis of design only and to show general idea of how new EMS system is to be incorporated with all new wiring/ controllers/ points. EMS shall be N4 Titan JACE with downgrade to the Niagara AX platform and open to all Vendors that have this platform.
B. Provide two (2) ¾” Water Meters connected to EMS, One on each Make-up water line for each Central Plant system.
C. The Exhaust Fans (EF) and Make-up Air Fans (MAF) that are connected to Fume Hoods are controlled by Hood Switch and do not need EMS connection.

Item No. 2-08: Refer to Plan Sheet M3.2 – Mechanical Floor Plan

A. Revise Lecture Room area per attached Addendum drawing M3.2A for the Base Bid only, see EXHIBIT 2-04. Keynote 5 on this plan shall read as follows: Frame opening per 1/S1.2, cut 1-stud only. See sheet M3.4 for Add. Alt. Bid #1 work.

Item No. 2-09: Refer to Plan Sheet M5.1 – Mechanical Floor Plan
A. Add Pump and VFD detail call-outs along with keynotes 4 and 5 per attached Addendum drawing M5.1A, see EXHIBIT 2-05. Expansion Tanks were also updated to match existing layout.
B. Contractor option to mount VFD’s to block wall between both sets of pumps and relocate ET-1 on new concrete equipment pad to maintain VFD clearance requirements. If contractor chooses this option details will need to be provided and submitted to DSA prior to starting any work, Engineer will provide these details. No change order will be accepted for this option, this is only for competitive bidding if contractor feels this may reduce cost.

Item No. 2-10: Refer to Plan Sheet E0.0 – Electrical General Notes, DWG Index
A. Added verbiage to the notes addressing the addendums

Item No. 2-011: Refer to Plan Sheet E3.2 – Electrical Floor Plan - 2
A. Added power to the FSD and motorized damper to coordinate with what is shown on M3.2.

Item No. 2-12: Refer to Plan Sheet E3.3 – Electrical Floor Plan
A. Added power to the FSD's to coordinate with what is shown on M3.3.

Item No. 2-013: Refer to Plan Sheet E6.1 – Site Lighting Controls Schematics 1
A. New sheet provided

Item No. 2-14: Refer to Plan Sheet E6.2 – Site Lighting Controls Schematics 2
A. New sheet provided

Item No. 2-15: Refer to Plan Sheet E6.3 – Site Lighting Controls Schematics 3
A. New sheet provided
**Item No. 2-16:** Refer to Plan Sheet E6.4 – *Existing LRC and Panel Locations*

A. Added building plan to show where the existing panels are located and added a general note to include the exterior building lighting to the lighting control.

**Item No. 2-17:** Refer to Plan Sheet E6.4 – *Existing LRC and Panel Locations*

A. Added building plan to show where the existing panels are located and added a general note to include the exterior building lighting to the lighting control.

**Item No. 2-18:** Refer to Plan Sheet AX1.1 detail 7 & 6.

A. Add metal closure flange to entire perimeter of louver as shown in detail 3/AX1.1. The intent is for the new louver penetrations to look like the original louver penetrations which have a flange going around the edge of the louver. GC to field verify thickness and size of flange.

**Item No. 2-19:** Refer to Plan Sheet A3.1 detail 7 & 2

A. General contractor to field verify roofing material, and tie new penetrations into existing roof with minimum of 4 feet of new, similar roofing material lapping old roofing material all around new penetration. Install new roof material as recommended by manufacturer and provide all flashing, sealant, as required to provide a water tight roof.

**SPECIFICATIONS:**

**Item No. 2-20:** Refer to district bid package 2779 Cost Analysis Page:

A. Remove and replace with attached page. This page adds a line for installation of district provided pump, and language regarding the allotted time for construction.

**Item No. 2-21:** Refer to Specification Section 23 00 01 – Heating Ventilating and Air Conditioning

A. Paragraph 3.07, E, 1 Clarification: The entire system shall be drained, cleaned and re-filled by current chemical treatment company San Joaquin Chemicals, Inc. Contact J.R. Huffman at 559-252-3727. The small Central Plant system...
has approximately 600 Gallons and the large Central plant system has approximately 1400 Gallons.

Item No. 2-22: Refer to Specification Section 23 09 23 – Direct Digital Control and Energy Management System

B. Specification is for Basis of design only and to show general idea of how new EMS system is to be incorporated with all new wiring/ controllers/ points/ etc. EMS shall be N4 Titan JACE with downgrade to the Niagra AX platform and open to all Vendors that have this platform.

C. Paragraph 1.03, B clarification: Existing cable trays may be used to run new communication wiring as long as there is no interference with other systems. These cable trays are exposed up high around the perimeter of the open corridors and above ceilings at classrooms.

END OF ADDENDUM
BID 2779

COST ANALYSIS FORM

CART FAN COIL MODERNIZATION

Base Bid

**Fan Coil Modernization**

_________________________________________________________________________ Dollars $________________

**Installation of District Provided Pump**

_________________________________________________________________________ Dollars $________________

Item 1 – Additive Alternate 1 – Vertical Fan Coil Unit, New Ceilings, & Reworked Duct Work In Lecture Hall

_________________________________________________________________________ Dollars $________________

Item 2 – Additive Alternate 2 – Exterior Lighting Control

_________________________________________________________________________ Dollars $________________

Item 3 – Additive Alternate 3 – Duct Cleaning

_________________________________________________________________________ Dollars $________________

**Total Bid**

_________________________________________________________________________ Dollars $________________

Low bidder to be determined by total of base bid plus all add alternates. Bid will be awarded in total to one successful bidder.

Time is of the essence in this contract. Time of completion for this project shall be 64 Calendar Days. WORK TO BEGIN ON JUNE 14, 2019 AND COMPLETED ON OR BEFORE AUGUST 17, 2019. Both portions of work to be completed within this timeframe.
<table>
<thead>
<tr>
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<th>Co. Name</th>
<th>Phone No.</th>
<th>Fax No.</th>
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<td>Kevin</td>
<td>Lurie &amp; Sirm-PCRC</td>
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**SIGN IN SHEET**

MANDATORY JOB WALK - MAY 14, 2019 @ 10:00 A.M.

**Project #: 18-27**

**Clovis USD**

**CARF HVAC MOD**

6847 2779
Description

BR5-36 is a sturdy panel with 36" [914 mm] coverage, and uniformly spaced ribs at 7.2" [183 mm] o/c. As a wall panel BR5-36 laps in the low cell. As a roof panel, BR5-36 is inverted so that the side lap occurs in the high cell.

All Exposed Fastener wall panels may be installed in a variety of rainscreen applications to form a complete wall system. Systems may vary from an uninsulated screenwall to MetalWrap® Series, an insulated composite backup panel system with Advanced Thermal and Moisture Protection (ATMP®). Refer to CENTRIA Technical bulletin TB-05-10 for all rainscreen applications.

Notes

A. For information on special applications, contact your local CENTRIA Representative.
B. Minimum of roof slope = 1" in 12" [25mm in 305mm].
C. Panel length tolerance is ± or -1/4" [6mm].
D. For protective coatings - see CENTRIA Color Chart or visit www.CENTRIA.com.
E. Oil canning within mill tolerances will not be cause for rejection.
F. Panels must be ordered as “roofing” or “siding” to ensure painting of proper surfaces.
G. BR5-36 must be inverted for roofing.

General Design Options

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<tr>
<th></th>
<th>GALVANIZED¹ (G90)</th>
<th>STAINLESS STEEL¹ (304)</th>
<th>ALUMINUM¹ (3003-H14)</th>
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<tr>
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<td>1 1/2&quot; [38mm]</td>
<td>1 1/2&quot; [38mm]</td>
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<tr>
<td>PANEL COVERAGE</td>
<td>36&quot; [914mm]</td>
<td>36&quot; [914mm]</td>
<td>36&quot; [914mm]</td>
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<tr>
<td>SIDE LAP</td>
<td>Overlapping</td>
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<td>Overlapping</td>
</tr>
<tr>
<td>END LAPS</td>
<td>Overlapping, Flash, MicroLine Extrusion²</td>
<td>Overlapping, Flash</td>
<td>Overlapping, Flash, MicroLine Extrusion²</td>
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<td>GAGES (STANDARD)</td>
<td>20 [.91mm], 22 [.76mm], 24 [.60mm]</td>
<td>20 [.91mm], 22 [.76mm], 24 [.60mm]</td>
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<td>See CENTRIA Color Chart</td>
<td>#4 Brushed</td>
<td>See CENTRIA Color Chart</td>
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1. Alternate base material, panel lengths and gages may also be available. Contact CENTRIA.
2. Embossing is non-directional.
3. MicroLine Extrusions can be used with horizontally installed panels only.
MR3-36
Exposed Fastener Panel • Wall and Roof System

Description

The 3” [76 mm] depth MR3-36 provides sturdy construction which allows for longer spans and a reduction in the number of supports required. As a wall panel, MR3-36 side laps in the low cell. As a roof panel, MR3-36 is inverted and side laps in the high cell.

All Exposed Fastener wall panels may be installed in a variety of rainscreen applications to form a complete wall system. Systems may vary from an uninsulated screenwall to MetalWrap® Series, an insulated composite backup panel system with Advanced Thermal and Moisture Protection (ATMP®). Refer to CENTRIA Technical bulletin TB-05-10 for all rainscreen applications.

Notes

A. For information on special applications, contact your local CENTRIA Representative.
B. Minimum of roof slope = 1” in 12” [25mm in 305mm].
C. Panel length tolerance is + or - 1/4” [6mm].
D. For protective coatings - see CENTRIA Color Chart or visit www.CENTRIA.com.
E. Oil canning within mill tolerances will not be cause for rejection.
F. Panels must be ordered as “roofing” or “siding” to ensure painting of proper surfaces.
G. MR3-36 must be inverted for roofing.

General Design Options

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<td>Overlapping, Flash</td>
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<td>GAGES (STANDARD)</td>
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<td>20 [.91mm], 22 [.76mm], 24 [.60mm]</td>
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<td>GAGES (OPTIONAL)</td>
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<td>5 [1.524m] - 40 ft. [12.192m]</td>
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<td>OPTIONAL LENGTH</td>
<td>1 [.305m] - 5 ft. [1.524m], 40 [12.192m]</td>
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<tr>
<td>FINISHES</td>
<td>See CENTRIA Color Chart</td>
<td>See CENTRIA Color Chart</td>
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1. Alternate base material, panel lengths and gages may also be available. Contact CENTRIA.
2. Embossing is non-directional.
### PUMP SCHEDULE (OWNER FURNISHED CONTR. INSTALLED)

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>CHP-1</th>
<th>CHP-2</th>
<th>CP-1 &amp; 2</th>
<th>CP-3 &amp; 4</th>
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<tbody>
<tr>
<td>TYPE</td>
<td>CENTRIFUGAL</td>
<td>CENTRIFUGAL</td>
<td>SPLIT COUPLED</td>
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<tr>
<td>MOUNTING</td>
<td>VERT. IN-LINE</td>
<td>VERT. IN-LINE</td>
<td>VERT. IN-LINE</td>
<td>VERT. IN-LINE</td>
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<tr>
<td>HORSEPOWER/BHP</td>
<td>2.0/1.14</td>
<td>3.0/2.63</td>
<td>5.0/3.21</td>
<td>7.5/6.44</td>
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<tr>
<td>RPM</td>
<td>1170</td>
<td>1765</td>
<td>3530</td>
<td>3540</td>
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<td>GPM/TDH (FT. WC.)</td>
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<td>140/100</td>
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<td>SERVICE</td>
<td>CH-1</td>
<td>CH-2</td>
<td>CH-1 DIST.</td>
<td>CH-2 DIST.</td>
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<tr>
<td>OPER. WT. (LBS.)</td>
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<td>290</td>
<td>250</td>
<td>320</td>
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<td>MANUFACTURER</td>
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<td>ARMSTRONG</td>
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<tr>
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<td>1.5x1.5x6</td>
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**NOTES:**
1. PUMPS HAVE VARIABLE FREQUENCY DRIVES (VFD) FOR MAIN DIST. PUMPS (CP-1 THRU 4) IN WEATHER TIGHT ENCLOSURE AND SHALL BE MOUNTED ON RACK, SEE SCHEDULE BELOW.
2. MOTORS ARE TEFC AND PREMIUM EFFICIENCY MOTORS.
3. CONTRACTOR SHALL PURGE AND CLEAN ENTIRE HYDRONIC PIPING SYSTEM, ADD CHEMICALS AS REQUIRED, SEE SPEC. SECTION 23 00 01.
4. CP-1 & 2 GPM & TDH LISTED IS WITH BOTH PUMPS RUNNING AND ALL VALVES OPEN TO COILS. WITH (1) OF THESE PUMPS RUNNING THE MAX. FLOW IS 112 GPM AT 65 FT. HD.
5. CP-3 & 4 GPM & TDH LISTED IS WITH BOTH PUMPS RUNNING AND ALL VALVES OPEN TO COILS. WITH (1) OF THESE PUMPS RUNNING THE MAX. FLOW IS 240 GPM AT 85 FT. HD.

### VFD SCHEDULE (OWNER FURNISHED CONTR. INSTALLED)

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<td>5/CP-1 &amp; 2</td>
<td>7.5/CP-3 &amp; 4</td>
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<tr>
<td>ENCLOSURE RATING</td>
<td>UL TYPE 3R</td>
<td>UL TYPE 3R</td>
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<td>HARMONIC MITIGATION</td>
<td>5% IMPEDANCE</td>
<td>5% IMPEDANCE</td>
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<tr>
<td>VFD MIN. SCCR</td>
<td>50 KA</td>
<td>50 KA</td>
</tr>
<tr>
<td>MANUFACTURER</td>
<td>ABB</td>
<td>ABB</td>
</tr>
</tbody>
</table>

**NOTES:**
1. VFD’S INCLUDE 5% IMPEDANCE VIA 5% AC LINE REACTOR OR DUAL DC BUS CHOKES. REACTORS OR CHOKES ARE SWINGING DESIGN.
2. VFD’S HAVE UL1449 TYPE 2 SURGE SUPPRESSION DEVICE.
3. VFD’S INCLUDE ALPHA–NUMERIC KEYPAD INTERFACE WITH DISPLAY IN Plain ENGLISH.
4. VFD’S HAVE EMI/RFI FILTER PER IEC 61800–3. INPUT AMPS DO NOT EXCEED OUTPUT AMPS.
5. VFD’S ARE BTL LISTED FOR BACNET MS/TP & ALSO INCLUDE MODBUS/N2.
6. VFD’S INCLUDE REAL TIME CLOCK WITH BATTERY BACKUP WITH 10 YEAR BATTERY.
7. FACTORY AUTHORIZED START-UP WITH 2-YEAR PARTS & LABOR WARRANTY IS PROVIDED BY TRANE.
1. IN-LINE CENTRIFUGAL PUMP WITH SUPPORT BRACKET EACH END.
2. BUTTERFLY VALVE (TYPICAL).
3. PETE'S PLUG (TYPICAL).
4. STRAINER WITH BLOWDOWN VALVE & HOSE THREAD.
5. REDUCER (TYPICAL).
6. (E) 6" CONC. PAD ON TOP OF 6" CONC. SLAB.
7. MOUNT ANGLE DOWN TO CONC. WITH (2) 3/8" HILTI KWIK BOLT TZ-SS 304 W/ 2-5/16" EMBEDMENT PER ESR-1917, SEE DET. 15/S1.2.
8. NON-SLAM CHECK VALVE.
9. PRESSURE GAGE (TYPICAL).
10. L2"x2"x1/4" WELDED AT ALL CONNECTIONS, TYP. 4 SIDES.
11. WELDED L2"x2"x1/4" VERTICAL EACH CORNER.
12. L2-1/2"x2-1/2"x1/4"x0"-4".
13. L2"x2"x1/4" CROSS BRACING WELDED TO SUPPORT LEGS, TYP. 4 SIDES.
15. CHAMFER ENDS AS REQUIRED.

NOTE: VERIFY UNIT DIMENSIONS AND COORDINATE FRAME SIZE TO BE BUILT ACCORDINGLY.
1. 3/8"Ø THRU BOLTS WITH LOCK WASHER AND NUT, TYP. OF 4 AT EACH VFD.
2. UNISTRUT P1000 HOT DIP GALVANIZED.
3. EXPANSION JOINT, TYP.
4. CONCRETE FOOTING, TYP.
5. CAP PLATE, TYP.
6. VFD, TYP.
7. 3/8"Ø BOLT WITH WATER TIGHT WASHER BETWEEN POST & UNISTRUT.
8. HSS3x3x3/16 POST, TYP.
9. (E) CONCRETE SLAB.
10. SLOPE TOP SLIGHTLY FOR DRAINAGE AWAY FROM POST, TYP.

NOTES:
A. MAINTAIN CLEARANCES REQUIRED BY MANUFACTURER.
B. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.
C. ALL HSS POSTS SHALL BE GALVANIZED AND/ OR PROTECTED WITH WEATHER RESISTANT PAINT.

VFD MOUNTING TO RACK
KEY NOTES

4 REMOVE (E) BASE MOUNT PUMP WITH VALVES AND PIPING RISER BACK TO POC'S. INSTALL NEW VERTICAL IN-LINE PUMP WITH ALL NEW VALVES AND PIPING AS SHOWN TO POC'S. PROVIDE ALL NEW EMS CONTROLS.

5 REMOVE (E) BASE MOUNT PUMP WITH VALVES, PIPING RISER AND PIPING OVERHEAD BACK TO POC'S. INSTALL NEW VERTICAL IN-LINE PUMP WITH ALL NEW VALVES AND PIPING AS SHOWN TO POC'S. PROVIDE ALL NEW EMS CONTROLS. WIRE TO NEW VFD MOUNTED ON RACK.

SCALE: 1/8" = 1'-0"

C.A.R.T.
FAN COIL MODERNIZATION

5-17-2019

M5.1A
GENERAL NOTES:

1. PROVIDE NEW 20A/1P, 120V POWER TO MOTORIZED DAMPER AND FIRE SMOKE DAMPER FROM EXISTING PANEL BOARD. SEE PANEL SCHEDULE E4.1

CONTRACTOR IS REQUIRED TO COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND Service BOARD.

GENERAL NOTES:

1. PROVIDE NEW 20A/1P, 120V POWER TO MOTORIZED DAMPER AND FIRE SMOKE DAMPER FROM EXISTING PANEL BOARD. SEE PANEL SCHEDULE E4.1

CONTRACTOR IS REQUIRED TO COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND Service BOARD.

GENERAL NOTES:

1. PROVIDE NEW 20A/1P, 120V POWER TO MOTORIZED DAMPER AND FIRE SMOKE DAMPER FROM EXISTING PANEL BOARD. SEE PANEL SCHEDULE E4.1

CONTRACTOR IS REQUIRED TO COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND Service BOARD.