Project: Adna School District
Adna High School Gym Addition
Project Number 2019-14

Date: August 18TH, 2022

Notice to Contractor:
The following changes in the Contract Documents, including the Drawings and Specifications, constitute this Addendum. All changes included in Addenda shall become a part of the Contract Documents for this Project. Any changes herein offset only the specific Drawings or Notes on Drawings or words or paragraphs in Specifications referenced to and the balance of the Drawings shall remain in full force.

ARCHITECTURAL SPECIFICATION

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<th>ITEM</th>
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<td>A1.0</td>
<td>See highlighted items on page 2 which show the new site work to be done. The rest of the items on the page are existing.</td>
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<td>4.1</td>
<td>M1.0, M2.0</td>
<td>See Rev 4 clouded changes on pages 3-4.</td>
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<td>E3.0, E4.0, E4.1</td>
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<td>4.3</td>
<td>BIDDERS</td>
<td>Berschauer Construction has been added as a prospective bidder for this project.</td>
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Product Approvals:

Specified Product                  Approved Product
Metal Panel Siding                  The Bryer Company – Partial Approval – see Page 8.

END OF ADDENDUM 4
## Revision Schedule

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<td>8/18/2022</td>
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### OUTSIDE AIR VENTILATION SINGLE ZONE SYSTEMS

#### UNIT DESCRIPTION

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<th>UNIT DESCRIPTION</th>
<th>SCHEDULES - HVAC</th>
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#### SYSTEM SPECIFICATIONS

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<th>SYSTEM</th>
<th>PANEL</th>
<th>TYPE</th>
<th>ROOM</th>
<th>AREA (SQ FT)</th>
<th>MAX DECAY (CFM)</th>
<th>ACTUAL DECAY (CFM)</th>
<th>AIR OUTDOOR-HEAT</th>
<th>AIR OUTDOOR-COOL</th>
<th>AIR HEAT</th>
<th>AIR COOL</th>
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#### ENERGY RECOVERY UNIT

**Energy Recovery Unit**

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<th>COMPONENT</th>
<th>DESCRIPTION</th>
<th>UNIT TYPE</th>
<th>MAX. RATE (%)</th>
<th>MAX. TFP (CFM)</th>
<th>MAX. FPR (%)</th>
<th>MAX. FPR (CFM)</th>
<th>FACTOR</th>
<th>MAX. FPR (CFM)</th>
<th>ENERGY LOSS (%)</th>
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#### ELECTRIC FURNACE

**Electric Furnace**

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<th>MAX. FPR (%)</th>
<th>MAX. FPR (CFM)</th>
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<th>ENERGY LOSS (%)</th>
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#### OUTDOOR HEAT PUMP - AIR TO AIR

**Outdoor Heat Pump**

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<th>MAX. FPR (%)</th>
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**Electric Duct Heater**

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<th>MAX. FPR (CFM)</th>
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**Exclusions:**

1. *Note: Details provided in the document are specific to the HVAC system for ADNA High School GYM Addition.*

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**ADENA HIGH SCHOOL GYM ADDITION**

121 ADNA SCHOOL ROAD
CHEHALIS, WA 98532

**BID SET**

07/22/2022

**SCHEDULES - HVAC**

2019-14

**SHEET NO.**

M1.0

**DATE:** 9/7/2022

**REV:** 04

**EQUIPMENT SCHEDULES FOR ADD#4**: PAGE 3 OF 8

**REV. SIGNED**:

1. *Collins Architecture Group*

2. *Have reviewed and verified the information provided in the equipment schedules.*
1. PROVIDE PROTECTIVE ENCLOSURE FOR ALL THERMOSTATS AND CONTROLS IN GYM AREA.

2. RECESSED WALL HEATER WITH INTEGRAL THERMOSTAT. SET AT 68°F. KING MODEL LPW, 208, 1Ø. PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL.

3. NOT USED.

4. PROVIDE 16" UL181 FLEXIBLE DUCT CONNECTION TO EACH.

5. ROUTE 12"Ø SA DUCT THROUGH STRUCTURE TO CEILING DIFFUSER IN RESTROOM.

6. RECESSED VANDAL-PROOF HEATER WITH INTEGRAL THERMOSTAT. SET AT 68°F. KING MODEL LPW, 208, 1Ø. PROVIDED BY MECHANICAL AND INSTALLED BY ELECTRICAL.

7. 12X12 EXHAUST TO ERV INLET. SEE M2.1.

8. ROUTE 10"Ø SA DUCT THROUGH STRUCTURE TO CEILING DIFFUSER IN HALL.

KEYED NOTES:

A. THE CONTRACT DOCUMENTS ENDEAVOR TO PROVIDE THE CONTRACTOR WITH A REASONABLE REPRESENTATION OF THE WORK TO BE PERFORMED. NOT ALL OFFSETS AND BENDS REQUIRED IN THE DUCT AND PIPING SYSTEMS CAN BE ANTICIPATED OR SHOWN. DO NOT RELY ON THE SCALE OF THE DRAWINGS FOR MATERIAL TAKE-OFFS OR COST ESTIMATION. CAREFULLY INVESTIGATE CONDITIONS SURROUNDING INSTALLATION TO PROVIDE CODE REQUIRED AND MANUFACTURER'S CLEARANCES. ALL WORK SHOWN IS DIAGRAMMATIC AND SHALL BE ROUTED TO FIT WITHIN STRUCTURE. COORDINATE WITH ALL TRADES.

B. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES, GRID AND LIGHT LOCATIONS FOR COORDINATION.

C. PROVIDE MAINTENANCE ACCESS POSSIBLE AT ALL EQUIPMENT, PROVIDE ACCESS POINTS AND ALL OTHER ACCESS REQUIRED PER MANUFACTURER'S INSTRUCTIONS.

D. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL PIPES AND DUCT SHALL BE ROUTED TO CONCEAL AS SPACES DO NOT SUPPORT DUCT OR PIPE IN DIRECT CONTACT WITH THE BUILDING STRUCTURE WITHOUT ADEQUATE MEASURES TO PREVENT NOISE DUE TO VIBRATION OF NORMAL SYSTEM USE.

E. PROVIDE ACCESS TO VALVES, REGULATORS, DAMPERS AND ALL OTHER SUCH DEVICES REQUIRING ACCESS OR ADJUSTMENT IN PLAIN VIEW AND WITHIN REASONABLE REACH FROM LADDERS, ACCESS DOORS AND THE LIKE. IF VALVES, REGULATORS, DAMPERS AND THE LIKE CAN NOT BE LOCATED IN AN ACCESSIBLE POSITION, REMOTE ACTUATORS SHALL BE PROVIDED.

F. PROVIDE MINIMUM 10'-0" DISTANCE BETWEEN ALL OSA INTAKES AND EXHAUST FANS, FLUE VENTS, PLUMBING VENTS, ETC.

GENERAL NOTES:

4. SHEET NO.

950 12th AVE., SUITE 200
LONGVIEW, WA 98632
PHONE: 360-425-0000
E-MAIL: craigc@collinsarchgroup.com
AT J-BOX. LEAVE C.B. AT PANEL IN “OFF” POSITION. CONTROL PANEL WILL BE LIFT CONTROL PANEL. PROVIDE CONDUCTOR FOR CIRCUIT INDICATED AND SAFE-OFF 16' 1/8"=1'-0"

COORDINATE REQUIRED ELECTRICAL CONNECTION OF FIRE SPRINKLER DRY PIPE LOCATED REMOTE FROM FAN. CONTROL PANEL PROVIDED WITH INTEGRAL COVER.

FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL.

PROVIDE 120V ELECTRICAL CONNECTION FOR VOICE EVAC. FIRE ALARM PANEL.

PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH (1) 1/2'' CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

PROJECTOR RECEPTACLES SHALL BE “CONTROLLED” TERMINATED DATA CABLE TO J-BOX WITH MIN. OF 36" OF LOOPED CABLE IN DOUBLE DEEP J-BOX WITH COVER PLATE WITH COVER PLATE WITH MEZANINE PLAN - POWER & SIGNAL

GENERAL NOTES:
1. ELECTRICAL CONSULTANT SHALL BE OTHER CONSULTANT IN THE ROOM CIRCULAR, ROOM WIRING IS ACCESSIBLE CURB AREAS ONLY WITH PRIOR APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
2. COORDINATE AND COORDINATE POWER LOCATIONS AND ELEVATOR ROOMS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
3. CONDUCTOR DESIGNATIONS “TIC MARKS” MAY NOT APPEAR ON THIS DRAWING OR ON THE J1-43 PANEL "J2"

KEYED NOTES:
1. MEASUREMENTS ARE DRAWING EXCEPT AS MAY BE NECESSARY TO ACCOMPLISH THE INTENT OF THE CIRCUITING.
2. REPLACE EXISTING RECEPTACLE WITH NEW DEVICE AND COVER PLATE. CONNECT TO EXISTING CIRCUIT.
3. PROVIDE AT APPROXIMATELY 16" OF SURPLUS RECEPTACLE AND A DOUBLE GAGES CORD RECEPTACLE. PROVIDE 3" OF GAGING AND PULL STRING TO J-BOX. PROVIDE TWO CIRCUIT BREAKERS AS SHOWN. PROVIDE (1) 120V ELECTRICAL CONNECTION WITH MIN. OF 36" OF LOOPED CABLE TO J-BOX WITH BLANK COVER PLATE.
4. PROVIDE (1) 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

COORDINATE EXACT LOCATION OF POWER OUTLETS AND EQUIPMENT WITH MECHANICAL EQUIPMENT INSTALLER. MAINTAIN NEC RECOMMENDED WORKING CLEARANCE.

VOLTAGE DESIGNATION:
1. PROVIDE DOUBLE GANG, DOUBLE DEEP JUNCTION BOX WITH 1-GANG MUD RING, COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

2. PROVIDE NEW  PAGING SPEAKER, RE-USE- BACK-BOX AND WIRING AS MUCH AS NECESSARY FOR SWITCH CONTROL AS RECOMMENDED BY THE BACKBOARD TERMINATION DATA CABLE TO J-BOX WITH MIN. OF 36" OF LOOPED CABLE IN DOUBLE DEEP J-BOX WITH COVER PLATE WITH COVER PLATE WITH (1) 1/2'' CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH MEZANINE PLAN - POWER & SIGNAL

3. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

4. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

5. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

6. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

7. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

8. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

9. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

10. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

11. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.

12. PROVIDE 120V ELECTRICAL CONNECTION TO DIGITAL CLOCK CONVERTER. LOCATE UP AND (1) 2" CONDUIT STUBBED INTO ACCESSIBLE CEILING OF STEM CLASSROOM, AND (1) 1/2" CONDUIT WITH PULL STRING TO A J-BOX WITH BLANK COVER PLATE WITH 2" GROMMET OPENING FOR A/V DEVICES. SPEAKER: RAULAND #US0188, COVER: RAULAND #ACC1004.
REVISED ONE-LINE DIAGRAM

MECHANICAL EQUIPMENT SCHEDULE

CALCULATION SCORING

EQUIPMENT | SCORING
---|---

GENERAL NOTES:

1. The Existing panel is not ideal as the panel is oversized. Reducing the capacity of the panel will allow for proper load and conductor sizing.

2. Existing panels are not ideal as the panels are oversized. Reducing the capacity of the panels will allow for proper load and conductor sizing.

3. Existing panels are not ideal as the panels are oversized. Reducing the capacity of the panels will allow for proper load and conductor sizing.

4. Existing panels are not ideal as the panels are oversized. Reducing the capacity of the panels will allow for proper load and conductor sizing.

5. Existing panels are not ideal as the panels are oversized. Reducing the capacity of the panels will allow for proper load and conductor sizing.

KEYED NOTES:

1. Panel #1 is oversized. Reducing the capacity of the panel will allow for proper load and conductor sizing.

2. Panel #2 is oversized. Reducing the capacity of the panel will allow for proper load and conductor sizing.

3. Panel #3 is oversized. Reducing the capacity of the panel will allow for proper load and conductor sizing.

4. Panel #4 is oversized. Reducing the capacity of the panel will allow for proper load and conductor sizing.

5. Panel #5 is oversized. Reducing the capacity of the panel will allow for proper load and conductor sizing.

COPPER ALUMINUM

UNLESS OTHERWISE NOTED ALL NEW CONDUCTORS SPECIFIED AS COPPER. ALUMINUM MAY BE USED FOR SIZES #1/0 AND LARGER.

PROVIDE ALL CIRCUIT BREAKERS TO MEET OR EXCEED 3Ø SYM. RATED SYSTEM.

THE ELECTRICAL DISTRIBUTION SYSTEM IS DESIGNED AS A FULLY EQUIPPED SYSTEM.

UTILITY.

FAULT CURRENT. CONTRACTOR TO OBTAIN FAULT CURRENT FROM LOCAL UTILITY.

CONTRACTOR IS RESPONSIBLE FOR ADJUSTING CONDUCTOR AND TERMINATION TO REDUCE CONDUCTOR SIZE. CONDUCTOR TERMINATION VOLTAGE DROP. AS NECESSARY TO ACCOMMODATE FEEDER CONDUCTOR OVERSIZED TO ACCOMMODATE REDUCTION DEVICES.

WIREWAY AS NECESSARY TO HOUSE CONDUCTOR TERMINATION TO REDUCE CONDUCTOR SIZE. CONDUCTOR TERMINATION VOLTAGE DROP. AS NECESSARY TO ACCOMMODATE FEEDER CONDUCTOR OVERSIZED TO ACCOMMODATE REDUCTION DEVICES.

NEW PANEL AND FEEDER BACK TO SPARE CIRCUIT BREAKER.

EXISTING TO REMAIN FEEDERS USE THE CONDUIT SYSTEM AS THE EQUIPMENT GROUNDING PATH.

DROP ACROSS COMBINED FEEDERS AND BRANCH CIRCUITS DOES NOT EXCEED 5%.

FEEDERS SIZED WITH THE INTENT THAT THE MAXIMUM VOLTAGE SWING WILL NOT EXCEED 5%.

FEEDERS SIZED WITH THE INTENT THAT THE MAXIMUM VOLTAGE SWING WILL NOT EXCEED 5%.

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SUBSTITUTION REQUEST FORM

JOB NAME

JOB ADDRESS

CITY, STATE, ZIP CODE

ARCHITECT: Collins Architectural Group, p.s.  
CONTRACTOR/MANUFACTURER: The Bryer Company

119 Clay St NW Auburn, WA
98020  
D. Tom Van Alstine 253-735-1824

PROJECT NAME: ADNA HIGH SCHOOL GYM ADDITION  
DATE OF REQUEST: 8/10/22

PROJECT #: 2019-14

The undersigned requests consideration of the following:

SPECIFIED ITEM: Metal Wall Panels - Vertical & Horizontal / Metal Soffit Panels

07-4213 2 2.01 & 2.02 Metal Wall & Soffits

PROPOSED SUBSTITUTION: The Bryer Company's - 7/8" Corrugated, 7.2 Panel, 12" Flush Panel

Attach complete technical data, including laboratory tests, if applicable.

Include complete information on changes to Drawings and/or Specifications which proposed substitution will require for its proper installations.

Fill in Blanks Below:

1. Does the substitution affect dimensions shown on drawings? no

2. Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution? yes

3. What affect does substitution have on other trades? no

4. Differences between proposed substitution and specified item? similar profiles, different manufacturer

5. Manufacturer’s guarantees of the proposed and specified items are:

   [ ] SAMR  [ ] DIFFERENT (explain on attachment)

The undersigned further states that the function, appearance and quality of the Proposed Substitution are equivalent or superior to the Specified Item.

Signature: D. Tom Van Alstine

Firm: The Bryer Company

Address: 119 Clay St NW Auburn, WA

Date: 8/10/22

Telephone: 253-735-1824

Attachments: Product Data Sheets of 3 Profiles
               Standard Color Chart
               Kynar Tech Data

For use by Design Consultant:

[ ] Accepted  [ ] Accepted as noted
[ ] Not Accepted  [ ] Received too late

By____  
Date____  
Remarks____

7.2 RIB SIDING IS REJECTED. MORE COLOR OPTIONS REQUIRED TO CORRESPOND WITH EXISTING BRICK ONSITE. STEELSCAPE DESIGN SOLUTION COLORS IS AN EXAMPLE. SOFFIT PANELS AND 7/8 CORRUGATED ARE ACCEPTED.

JARED BV 8/11/2022

ADD#4: PAGE 8 OF 8