#### ARCHITECHNICS, INC. 510 MAINE STREET QUINCY, ILLINOIS 62301

PROJECT NO. : 5917C

#### ADDENDUM NO.: 1

ISSUED: <u>4/27/2020</u>

Project: NEW INSULATION, INSULATION REPLACEMENT AND AIR FLOW MEASURES IN GYM AT BROWN COUNTY ELEMENTARY SCHOOL BROWN COUNTY COMMUNITY UNIT SCHOOL DISTRICT #1 503 NW CROSS STREET MT. STERLING, IL 62353

This addendum becomes a part of the bidding and contract documents and modifies the drawings and specifications dated April 24, 2020. Acknowledge receipt of this addendum by noting such on the Contractor's Proposal (Bid) Form.

#### FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION

ITEM		DESCRIPTION				
SPECIFICATIONS						
1.0	Table of Contents	Replace	Replace with attached section.			
2.0	Section 00 1113 Ad for Bids	Replace	Replace with attached section.			
3.0	Section 07 7213 Retrofit PEMB Insulation	Add	Add attached section.			
DRAWINGS:						
1.0	Sheets G100, A100	Replace	Replace with attached sheet at accurate scale.			

Attachments: Specification SectionsTOC, 00 1113, 07 7213; Sheet G100, A100.

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#### SECTION 00 1113 ADVERTISEMENT FOR BIDS

#### 1.1 **PROJECT INFORMATION**

- A. Notice to Bidders: Qualified bidders may submit bids for project as described in this Document. Submit bids according to the Instructions to Bidders.
- B. Project Identification: New Insulation, Insulation Replacement and Air Flow Measures in Gym at Brown County Elementary School
- C. Owner: Brown County CUSD #1.
- D. Architect: Architechnics, Inc.
- E. Project Description: Project consists of new insulation systems installed in existing preengineered metal building and installation of air flow equipment.
- F. Construction Contract: Bids will be received for the following Work:
  - 1. General Contract (all trades).

#### 1.2 BID SUBMITTAL AND OPENING

- A. Owner will receive sealed lump sum bids until the bid time and date at the location given below. Owner will consider bids prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:
  - 1. Bid Date: May 14, 2020
  - 2. Bid Time: 2:00 p.m. local time.
  - 3. Location: Brown County Community School District #1, Board Office, 501 NW Cross St., Mt. Sterling, IL 62353
- B. Bids will be thereafter publicly opened and read aloud.

#### 1.3 BID SECURITY

A. Bid security shall be submitted with each bid in the amount of 5 percent of the bid amount. No bids may be withdrawn for a period of 60 days after opening of bids. Owner reserves the right to reject any and all bids and to waive informalities and irregularities.

#### 1.4 DOCUMENTS

A. Online Procurement and Contracting Documents: Obtain access after April 24, 2020 by contacting the Architect. Online access will be provided to all registered bidders and suppliers.

#### 1.5 TIME OF COMPLETION

A. Successful bidder shall begin the Work on receipt of the Notice to Proceed and shall complete the Work within the Contract Time.

#### 1.6 BIDDER'S QUALIFICATIONS

A. Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work. A Performance Bond, separate Labor and Material Payment Bond, and Insurance in a form acceptable to Owner will be required of the successful Bidder.

#### 1.7 NOTIFICATION

A. This Advertisement for Bids document is issued by Brown County CUSD #1.

#### END OF DOCUMENT 00 1113

New Insulation, Insulation Replacement and Air Flow Measures in Gym at Brown County Elementary School 5917C

#### SECTION 07 7213 RETROFIT PRE-ENGINEERED BUILDING INSULATION

#### PART 1 - GENERAL

#### **1.1 SECTION INCLUDES**

A. Pre-Engineered Building Insulation for Existing Construction.

#### **1.2 REFERENCES**

- A. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E 96 Standard Test Method for Water Vapor Transmission of Materials in Sheet Form (Procedure B).
- C. ASTM C 665 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
- D. NFPA 255 Standard Method of Test of Surface Burning Characteristics of Building Materials.
- E. UL 723 Tests for Surface Burning Characteristics of Building Materials.
- F. ASTM C 1136 Standard Specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation.

#### **1.3 DESIGN REQUIREMENTS**

A. Insulating system shall have a continuous vapor barrier inside of building purlins, girts, and insulation to provide complete isolation from inside conditioned air.

#### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation instructions.
- C. Shop Drawings: Indicate locations of connections and attachments, general details, anchorages and method of anchorage and installation.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches square or long, representing actual products required for this project.
- E. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing product systems specified in this section with minimum five years documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section.
- C. Insulation system components to include a ten-year limited material warranty.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products indoors and protect from moisture, construction traffic, and damage.

#### 1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environ mental conditions outside manufacturer's absolute limits.

#### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS – BASIS OF DESIGN

- A. Acceptable Manufacturer: Thermal Design, Inc., Simple Saver System. P.O. Box 468, 601 N. Main Street, Madison, NE 68748. ASD. Tel: (800) 255-0776 or (402) 454-6591. Fax: (402) 454-2708. Email: sales@thermaldesign.com, www.thermaldesign.com.
- B. Substitutions: As approved according to section 01 2500.

#### 2.2 MATERIALS

- A. Simple Saver System consists of Roof Insulation, Vapor Barrier Liner Fabric, Thermal Breaks, Straps, and other devices and 07213-3 components in a proprietary insulation sys tem as follows:
  - 1. Batt or Blow Insulation: ASTM C 991 Type 1; preformed formaldehyde-free glass fiber batt conforming to the following:
    - a. Thermal Resistance: R of 25 minimum or maximum R that the purlin cavity al lows.
    - b. Batt Size: Equal to purlin/girt spacing by manufacturer's standard lengths.
    - c. Unfaced.
  - Roof Insulation: Formaldehyde-free fiberglass batt, blanket or blown complying with ASTM C 991 Type 1 and ASTM E 84 with a thermal resistance and thickness as follows:
    - a. R-25; 8 inches or maximum R that the purlin cavity allows.
  - 3. Vapor Barrier Liner Fabric: Syseal® type woven, reinforced, high-density polyethylene yarns coated on both sides with a continuous white or colored polyethylene coatings, as follows:
    - a. Product complies with ASTM C 1136, Types I through Type VI.
    - b. Syseal liner system fabric perm rating shall (choose) not function as a vapor retarder but shall be perforated with 3/16" minimum holes spaced not more than four (4") inches apart in each direction (or) be  $\leq 0.02$  for fabric and for seams in accordance with ASTM E 96.
    - c. Flame/Smoke Properties:
      - 1) 25/50 in accordance with ASTM E 84.
      - 2) Self-extinguishes with field test using matches or butane lighter.
    - d. Ultra violet radiation inhibitor to minimum UVMAX® rating of 8.
    - e. Size and seaming: Manufactured in large custom pieces by extrusion welding from roll goods, and fabricated to substantially fit defined building area with minimum practicable job site sealing.
    - f. Provide with factory triple, extrusion welded seams. Stapled seams or heatmelted seams are not acceptable due to degradation of fabric.
    - g. Factory-folded to allow for rapid installation.
    - h. Color:
      - 1) White.

- 4. Vapor Barrier Lap Sealant: Solvent-based, Simple Saver polyethylene fabric sealant.
- 5. Syseal® Sticky Tape: Double-sided sealant tape 3/4 inch wide by 1/32 inch thick.
- 6. Syseal® Patch Tape: Single-sided, adhesive backed sealant tape 3 inches wide made
- from same material as Syseal® type liner fabric.
- 7. UVMAX® Straps:
  - a. 100 KSI minimum yield tempered, high-tensile-strength steel.
  - b. Size: Not less than 0.020 inch thick by 1 inch by continuous length.
  - c. Galvanized, primed, and painted to match specified finish color on the exposed side.
  - d. Color:
    - 1) White.
- 8. Fasteners:
  - a. For light gage steel: #12 by 3/4 (19 mm) inch plated Tek 2 type screws with sealing washer, painted to match specified color.
  - b. For heavy gage steel: #12 by 1-1/2 inch plated Tek 4 type screws with sealing washer, painted to match specified color.

#### PART 3 - EXECUTION

#### **3.1 EXAMINATION**

- A. Verify that building structure including all bracing and any concealed building systems are completed and approved prior to installing liner system and insulation in the structure.
- B. Correct any unsatisfactory conditions before proceeding.
- C. If conditions are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 3.2 INSTALLATION - GENERAL

- A. Install pre-engineered building insulation system in accordance with manufacturer's installation instructions and the approved shop drawings.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Install in exterior spaces without gaps or voids. Do not compress insulation.
- D. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- E. Fit insulation tight in spaces and tight to exterior side of the sealed liner fabric and around mechanical and electrical services within plane of insulation.

#### 3.3 ROOF INSULATION INSTALLATION

- A. Straps:
  - 1. Cut straps to length and install in the pattern and spacings indicated on shop drawings.
  - 2. Tension straps to required value.
- B. Vapor Barrier Fabric:
  - 1. Install vapor barrier fabric in large one-piece custom fabricated pieces to substantially fit defined building areas with minimum practicable job site sealing.
  - 2. Position pre-folded fabric on the strap platform along one eave purlin.
  - 3. Clamp the two bottom corners at the eave and also centered on the bay.
  - 4. Pull the other end of the pleat-folded fabric across the building width on the strap platform, pausing only at the ridge to fasten the straps and fabric in position where plane of roof changes and to release temporary fasteners on the opposite ridge purlins.
  - 5. Once positioned, install fasteners from the bottom side at each strap/purlins intersection.

New Insulation, Insulation Replacement and Air Flow Measures in Gym at Brown County Elementary School 5917C

- 6. Trim edges and seal along the rafters.7. All seams must be completely sealed and stapled seams not acceptable.
- C. Insulation:
  - 1. Place on the vapor barrier liner fabric without voids or gaps.
  - 2. Place new insulation between purlins at the required thickness for the R-value specified.
- D. Seal vapor barrier fabric to the wall fabric and elsewhere as required to provide a continuous vapor barrier.

#### 3.4 CLEANING

- A. Clean dirt or exposed sealant from the exposed vapor barrier fabric.
- B. Remove scraps and debris from the site.

#### 3.5 PROTECTION

- A. Protect system products until completion of installation.
- B. Repair or replace damaged products before completion of insulation system installation.

END OF SECTION

# NEW INSULATION, INSULATION REPLACEMENT AND AIR FLOW MEASURES IN GYM AT BROWN COUNTY ELEMENTARY SCHOOL **BROWN COUNTY COMMUNITY UNIT SCHOOL DISTRICT #1**

### MT. STERLING, BROWN COUNTY, ILLINOIS

### **GENERAL NOTES**

- 1. CONTRACTOR TO VERIFY ALL DIMENSIONS.
- 2. ANY DISCREPANCIES BETWEEN STATED AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THOSE AREAS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN SAFETY AT THE CONSTRUCTION SITE, AND HE IS SOLELY RESPONSIBLE FOR SAFETY MEASURES. THE CONTRACTOR IS ALSO SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND TECHNIQUES REGARDING EXECUTION OF THE WORK.
- 5. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE CODES AND RECEIVE LOCAL AND STATE APPROVAL WHERE NECESSARY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY, AND STATE BUILDING LAWS, ORDINANCES, OR REGULATIONS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAMAGE DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, CAUSED BY HIMSELF, HIS SUBCONTRACTOR, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.
- 9. THE CONTRACTOR MUST UNDERSTAND THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SAME IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY.
- 10. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY TEMPORARY WORKS FOR THE PROTECTION OF THE WORK, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS, ETC.

nRd	
Damon Rd Here School & Winscriptory Winscriptory School & Winscri	
n County (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	NWA
Buchlann ad W Sauth St W Trankin ST W Cheatinut St W Cheatinut St W Cheatinut St W Cheatinut St Rulinad St	Bu

MT. STERLING, IL NO SCALE

			ABBREV	ΙΑΙΙ	<b>UN 5</b>	
ABV	ABOVE	DWG	DRAWING			
A.F.F.	ABOVE FINISHED FLOOR	D.F.		M.H. MFGR.	MANHOLE MANUFACTURER	
ADD'N.	ADDITION	EA.	EACH	MFGR. M.T.	MARBLE TILE	
A.C.		E.W. E.M.R.	EACH WAY ELASTOMERIC MEMBRANE	MK.	MARK	
A.H.U.		E.M.R.	ROOFING	M.O.	MASONRY OPENING	
ALT ALUM	ALTERNATE ALUMINUM	ELEC.	ELECTRIC	MATL.	MATERIAL	
ALUM A.D.A.	AMERICANS WITH	E.P.	ELECTRIC PANELBOARD	MECH.	MECHANICAL	
A.D.A.	DISABILITIES ACT	EL	ELEVATION	MET.	METAL	
ANCS.	ANCHORS	ELEV.	ELEVATOR	MIN.	MINIMUM	
AUTO.	AUTOMATIC	EXH.	EXHAUST	MISC.	MISCELLANEOUS	
BM.	BEAM	E.F.	EXHAUST FAN	M.R.	MOISTURE RESISTANT	
BR'G	BEARING	EXIST	EXISTING	MTD.	MOUNTED	
BITUM.	BITUMINOUS	E. J.	EXPANSION JOINT	N.D.	NAPKIN DISPENSER	
BLK'G.	BLOCKING	EXT	EXTERIOR	N.I.C.	NOT IN CONTRACT	
BLDG	BUILDING	E.I.F.S.	EXTERIOR INSULATION	NOM.	NOMINAL	
BD.	BOARD	E 14/ O		NO.	NUMBER	
BTM.	BOTTOM	F.W.C.		OFC. O.C.		
B.P.	BRICK PAVERS	F.V. FIN.	FIELD VERIFY FINISH	OPG.	ON CENTER OPENING	
BLDG.	BUILDING	FIN. F.E.C.	FINISH FIRE EXTINGUISHER		OPPOSITE HAND	
BUR	BUILT-UP ROOF	Γ.Ε.Ο.	CABINET	OFF. HND. OH.	OVERHEAD	
CA.	CARPET	FIX.	FIXTURE	PT.	PAINT	
C.I. CAT	CAST IRON CATALOG	FL.	FLOOR	PR.	PAIR	
CAT CLG.	CEILING	F.D.	FLOOR DRAIN	PARTN.	PARTITION	
C.T.	CERAMIC TILE	FLOUR.	FLOURESCENT	PERF.	PERFORATED	
C.W.B.	CERAMIC WALL BASE	FTG.	FOOTING	P.D.	PRESSURE DROP	
C.B.	CHALK BOARD	FND.	FOUNDATIION	PLAS.	PLASTIC	
CLOS.	CLOSET	G.P.M.	GALLONS PER MINUTE	P.S.	PLUMBING STACK	
C.O.	CLEAN OUT	GALV	GALVANIZED	P.V.	PLUMBING VENT	
CO.	COMPANY	GA.		PLYWD.	PLYWOOD	
COMP.	COMPOSITION	G.W.T. G.B.	GLAZED WALL TILE GRAB BAR	P.V.C.	POLYVINYL CHLORIDE	
CONC	CONCRETE	G.F.B.	GROUND FACE BRICK	P.S.F.	POUNDS PER SQUARE FOOT	
C.M.U.	CONCRETE MASONRY	GYP. BD.	GYPSUM WALLBOARD	PREFIN.	PREFINISHED	
		H.D.	HAIR/HAND DRYER		PROJECT MANUAL	
COND CONN.	CONDENSATION CONNECTION	HC	HANDICAPPED	QTY.	QUANTITY	
CONST.	CONSTRUCTION	HR.	HANDRAIL	Q.T.	QUARRY TILE	
C.J.	CONSTRUCTION JOINT	HDWE.	HARDWARE	RAD.	RADIUS	
CONT	CONTINUOUS	H.V.A.C.	HEATING, VENTILATING,	RECEP.	RECEPTACLE	
CONTR.	CONTRACTOR		& AIR CONDITIONING	REF.	REFERENCE	
COR'D	CORRUGATED	HT.	HEIGHT	R.A.	RETURN AIR	
CORR.	CORRIDOR	H.C.	HOLLOW CORE	R.H.	RIGHT HAND	
CNTR.	COUNTER	H.M.	HOLLOW METAL	R.	RISERS	
C.R.	CRUSHED ROCK	HORIZ.	HORIZONTAL	R.D.	ROOF DRAIN	
C.F.M.	CUBIC FEET PER	INC.		R.B.	RUBBER BASE	
	MINUTE	INSUL. INSUL.G.	INSULATION INSULATED GLASS	R.C.B.	RUBBER COVE BASE	
DEMO	DEMOLITION	JAN.	JANTOR	REQD.	REQUIRED	
DET	DETAIL	JT.	JOINT	R.O.W.	RIGHT OF WAY	
DIA		J.F.	JOINT FILLER	RM. R.I.	ROOM ROUGH IN	
DIM.		JST.	JOIST	R.I. R.O.	ROUGH IN ROUGH OPENING	
DISP. DIV.	DISPENSER DIVISION	J.B.	JUNCTION BOX	R.O. R.S.T.	RUBBER STAIR TREAD	
DR.	DOOR	LAM.	LAMINATE	R.T.	RUBBER TILE	
DR. DBL.	DOUR	LAV.	LAVATORY	SAN.	SANITARY (SEWER)	
DBL. D.S.	DOUBLE DOWNSPOUT	L.H.	LEFT HAND	SCHED.	SCHEDULE	
2.0.		LG.	LONG	• • • • •		

G100 A100



NORTH

PROJECT SITE: BROWN COUNTY ELEMENTARY SCHOOL 501 NW CROSS STREET MOUNT STERLING, IL 62353 AREA OF WORK - MAIN LEVEL AND PARTIAL LOWER LEVEL

SECT.	SECTION
SHT. SIM.	SHEET SIMILAR
S.C. SPEC.	SOLID CORE SPECIFICATION
SPEC. S.& V.	SPECIFICATION STAIN AND VARNISH
S.S.	STAINLESS STEEL
STD. STL.	STANDARD STEEL
STOR.	STORAGE
ST. S. S.G.T.	STORM SEWER STRUCTURAL GLAZED
	TILE
S.A.P.	SUSPENDED ACCOUSTICAL PANELS
Т.В. Т. О. О	TACK BOARD
T. & S. T.D.D.	TAPE AND SAND TELECOMMUNICATIONS
то	DEVICE FOR DEAF
T.G. T.R.G.	TEMPERED GLASS TEMPERED REFLECTIVE
TZ.	GLASS TERRAZZO
T.T.	TERRAZZO TILE
THK. T'HOLD	THICK/THICKNESS THRESHOLD
T.P.	TOILET PAPPER
T. & G. T. & B.	TONGUE AND GROOVE TOP AND BOTTOM
TRANS	TRANSITION
T. TYP	TREADS TYPICAL
U.L.	UNDERWRITERS
U.N.O.	LABORATORIES UNLESS NOTED
0.11.0.	OTHERWISE
U.P. V.P.	UTILITY POLE VAPOR BARRIER
VERT.	VERTICAL
VEST. V.C.T.	VESTIBULE VINYL COMPOSITION
V.O.T.	TILE
V.W.C.	VINYL WALL COVERING
V.C.P.	VITRIFIED CLAY PIPE
W.C. W.W.F.	WATER CLOSET WELDED WIRE FABRIC
W.	WIDTH
WDW. W.G.	WINDOW WIRE GLASS
W/	WITH
W/O WD.	WITH OUT WOOD
Т.	TREADS
TYP. U.L.	TYPICAL UNDERWRITERS
U.L.	GINDERWINHERS

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### **COVER SHEET**

ELEMENTARY SCHOOL MAIN LEVEL PLAN





