

Community Safe Room Billings R-IV School District 118 W. Mt. Vernon Billings, Missouri 65610

ADDENDUM #2

Date: June 2, 2017

Prepared For: Billings R-IV School District

Project Number: 16008

Architect: Dickinson Hussman Architects

11 East Lockwood Avenue

Suite 200

St. Louis, Missouri 63119

314-727-8500

This addendum is hereby made part of the contract documents of the above referenced project. This addendum supplements and/or amends the originally issued documents and all related addenda.

ARCHITECTURAL SPECIFICATION ADDENDUM:

07542 - Fully Adhered TPO

1. Roof system membrane to be a .060 TPO roofing membrane. Delete any reference to a fleece-backed system.

09250 - Gypsum board

1. Section 09250-Gypsum Board to be inserted into the Division 9 - Finishes section of the project manual – **See attached specification section**

09646 - Wood Athletic Flooring

- 1. In Part 1-General/1.03 Quality Assurance/A. Floor System Manufacture Qualifications/1 Basis of Design, ADD subparagraph a. to read as follows
 - a. Additional acceptable manufactures. (Subject to compliance with project manual)
 - i. Action Floor Systems GreenFlex Anchored System

11490 – Gymnasium Equipment

1. All backboards to have an electric height adjuster to allow adjustment from 8'-0" to 10'-0" – See attached specification

May 26, 2017 Community Safe Room Billings R-IV School District Project Number 16008 Addendum #1 Page 2 of 2

ARCHITECTURAL DRAWING ADDENDUM:

- Sheet A2.0 Note "Logo to be determined by school district" only pertains to Alternate No. 3 scope. The final logo graphic will be supplied by the school district. This will be a multi-color graphic.
- Sheet A2.0 Delete key note 6 and key note 12. Floor drains indicated and called out on the Floor Plan per key note 13 – See attached SDA-01
- 3. Sheet A3.0 Key note 19 to be re-labeled to key note 20 near the North scupper along Column line A. Gas piping location indicated on the Roof Plan **See** attached SDA-02
- Sheet A4.0 Gas piping location indicated on the Exterior Elevation (West) See attached SDA-03
- 5. Sheet A6.0 Delete key note 6 and remove the roof hatch from the Reflected Ceiling Plan. Key note 4 to be re-labeled as key note 5 in both Room 104 and Room 105 on the Reflected Ceiling Plan. **See attached SDA-04**
- Sheet A9.1 Revise the Room Finish Schedule / Room Finish Schedule (Alternate Bid) – See attached SDA-05
- 7. Sheet A9.1 Revise Finish Specification List See attached SDA-06

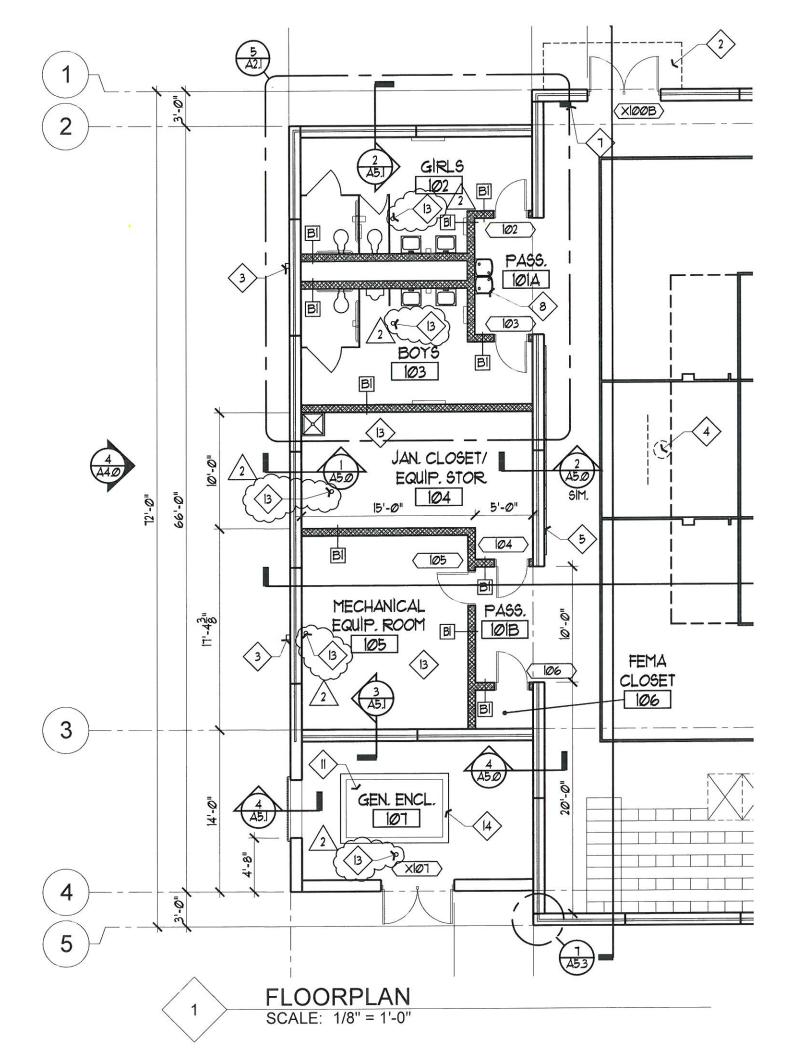
ELECTRICAL DRAWING ADDENDUM:

See attached from G&W Engineering Corporation dated 06/02/2017

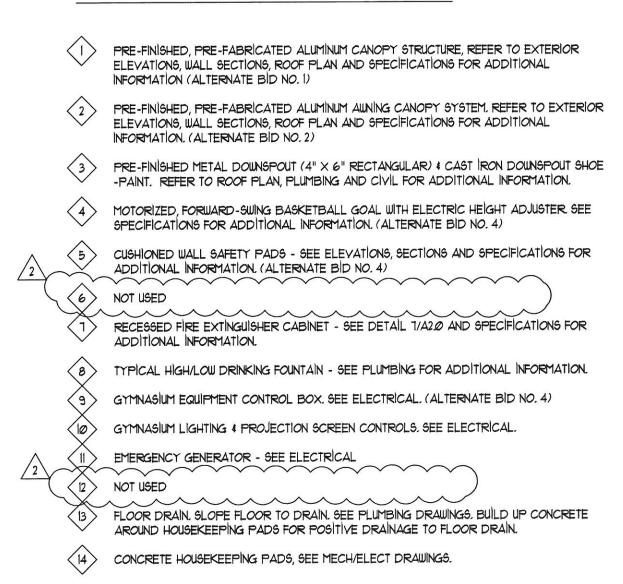
ATTACHMENTS:

- 1. Supplemental Architectural Drawings (6 Pages)
- 2. Specification Section 09250 Gypsum Board (8 Pages)
- 3. Alco Height Adjuster Specification (1 Page)
- 4. G&W Engineering Corporation Addendum No. 2 (3 Pages)

END OF ADDENDUM 2



FIRST FLOOR PLAN KEY NOTES



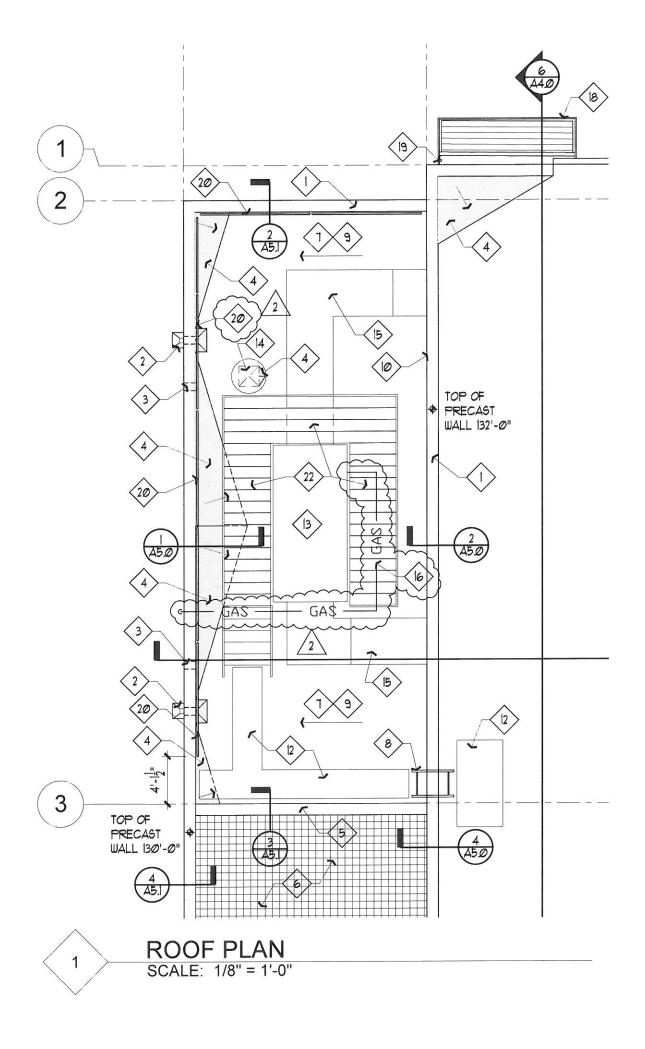


Project For:

FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon Billings, Missouri 65610

> DATE PROJ. NO.





FEMA Shelter Community Safe Room Billings R-IV School District

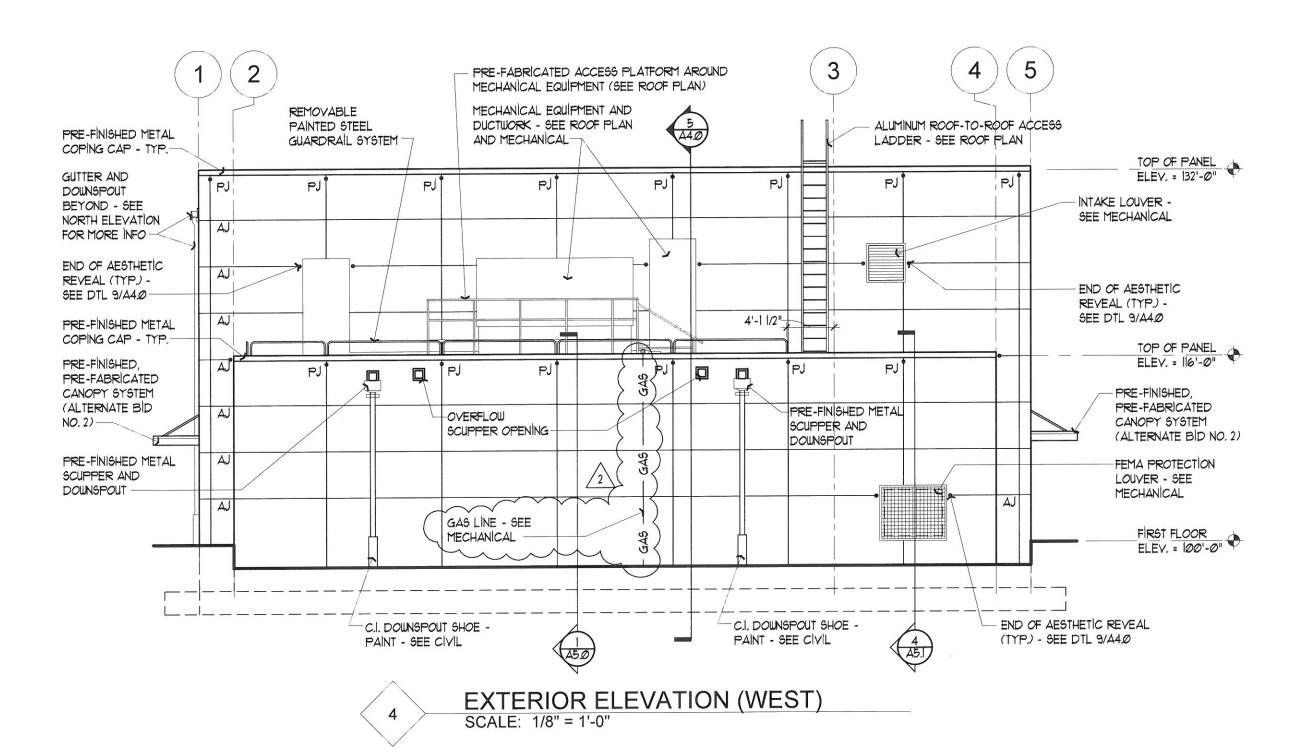
118 West Mount Vernon
Billings, Missouri 65610

DATE PROJ. NO. June 2, 2017

11 East Lockwood Avenue, Ste. 200 St. Louis, MO 63119 T 314 727 8500 F 314 727 4040 www.dharch.com DICKINSON HUSSMAN ARCHITECTS

ORIGINAL DRAWING ORIGINAL DRAWING DATE

A3.0 May 18, 2017

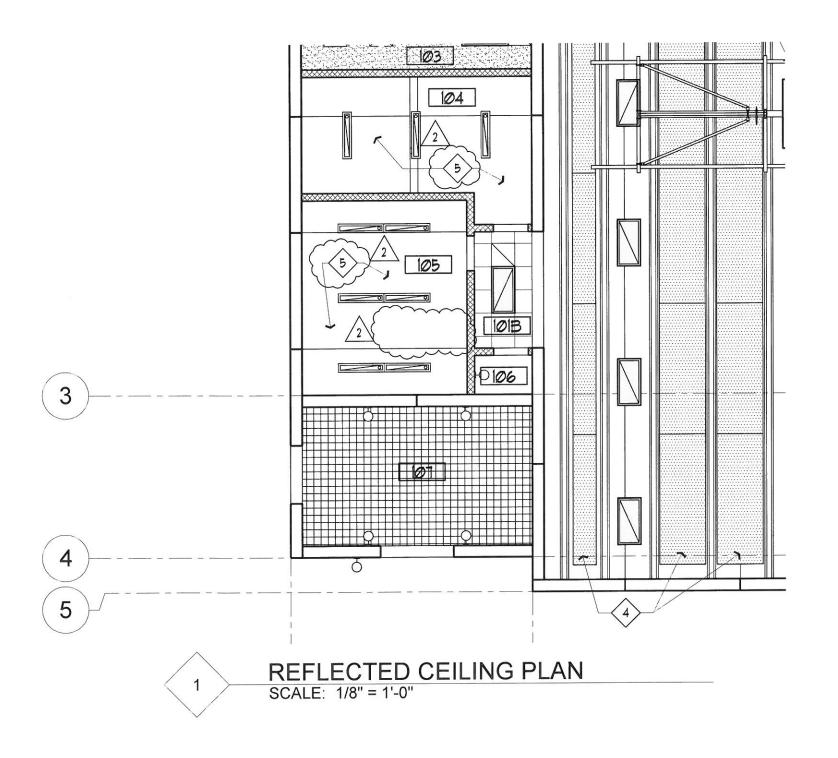




FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon Billings, Missouri 65610

> DATE PROJ. NO.



REFLECTED CEILING PLAN KEY NOTES

- PRE-FINISHED, PRE-FABRICATED ALUMINUM CANOPY STRUCTURE, REFER TO EXTERIOR ELEVATIONS, WALL SECTIONS, ROOF PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (ALTERNATE BID NO. 1)
- PRE-FINISHED, PRE-FABRICATED ALUMINUM AUNING CANOPY SYSTEM. REFER TO EXTERIOR ELEVATIONS, WALL SECTIONS, ROOF PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. (ALTERNATE BID NO. 2)
- MOTORIZED, FORWARD-SWING BASKETBALL GOAL WITH ELECTRIC HEIGHT ADJUSTER. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. (ALTERNATE BID NO. 4)
- ACOUSTICAL CEILING PANELS (AT-2) HUNG IN BAYS WITHOUT LIGHT FIXTURES ONLY (ALTERNATE BID NO. 5)
- 5 EXPOSED STRUCTURE (NO CEILING)

 NOT USED



Project For:

FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon Billings, Missouri 65610

> DATE PROJ. NO.

			T	NISH SCHEDULE (BASE BID											
ROOM		FLOOR	BASE	NORTH		EAST		50	SOUTH		ST	CEILING			
NO.	ROOM NAME			MATL.	FINISH	MATL.	FINISH	MATL.	FINISH	MATL.	FINISH	MATL.	FINISH	HEIGHT	REMARKS
BASE B	IID		100												
100	GYMNASIUM	SCONC		PCONC	EPT-1	PCONC	EPT-I	PCONC	EPT-1	PCONC	EPT-1	PCONC	PT-5	VARIES	SEE ALT, SCHEDULE
1Ø1A	PA99AGE	2 (SCONC)		PCONC	EPT-1	PCONC	EPT-I	PCONC	EPT-1	PCONC	EPT-1	ACP-1		9'-Ø"	
101B	PASSAGE	SCONC		PCONC	EPT-1	PCONC	EPT-I	PCONC	EPT-1	PCONC	EPT-1	ACP-1		9'-Ø"	
102	GIRL'S RESTROOM	SCONC		CMU	EPT-1	CMU	EPT-I	CMU	EPT-1	CMU	EPT-I	GB	EPT-2	9'-Ø"	
103	BOY'S RESTROOM	SCONC		cMu	EPT-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	GB	EPT-2	9'-0"	
104	JAN. CLOSET/EQUIP. STORAGE	SCONC		CMU	EPT-I	CMU	EPT-1	CMU	EPT-1	CMU	EPT-I	PCONC	EPT-2	VARIES	
105	MECHANICAL EQUIPMENT ROOM	SCONC		PCONC	PT-IA	PCONC	PT-1A	PCONC	PT-IA	PCONC	PT-IA	PCONC	PT-2	VARIES	
106	FEMA CLOSET	SCONC		PCONC	PT-IA	PCONC	PT-IA	PCONC	PT-1A	CMU	PT-IA	PCONC	PT-2	VARIES	
107	GENERATOR ENCLOSURE	CONC		PCONC		PCONC		PCONC		PCONC		GRATE			

		ROOM	I FII	VIS	H S	SCH	IED	UL	E (A	\LT	ERN	IATE I	BID)		
				WALLS											
ROOM	8			NORTH		EAST 50		UTH WEST		CEILING					
NO.	ROOM NAME	FLOOR	BASE	MATL.	FINISH	MATL.	FINISH	MATL.	FINISH	MATL	FINISH	MATL.	FINISH	HEIGHT	REMARKS
ALTERN	IATE BID			2				SINVALO SE							•
100	GYMNASIUM	WF-1 (В-1	(SEE BA	SE BID	BCHEDUL	E INFORT	1ATÌON)							ALTERNATE BID NO. 3
101A	PASSAGE	(SEE BASE BID	6CHEDUL	E INFOR	MATION)										
101B	PASSAGE	(SEE BASE BID	3CHEDUL	E INFOR	MATION)										
102	GIRL'S RESTROOM	(SEE BASE BID	6CHEDUL	E INFOR	MATION)										
103	BOY'S RESTROOM	(SEE BASE BID	6CHEDUL	E INFOR	MATÌON)										
104	JAN. CLOSET/EQUIP. STORAGE	(SEE BASE BID	6CHEDUL	E INFOR	MATION)										
105	MECHANICAL EQUIPMENT ROOM	(SEE BASE BID	BCHEDUL	E INFOR	MATION)					1003					
106	FEMA CLOSET	(SEE BASE BID	6CHEDUL	E INFOR	MATION)										
107	GENERATOR ENCLOSURE	(SEE BASE BID	3CHEDUL	E INFOR	MATION)										



FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon
Billings, Missouri 65610

DATE PROJ. NO.

ALTERNATE BID, NO 3 GYMNASIUM FLOOR WF-I WOOD FLOOR MFR: ROBBINS SPORTS SURFACES STYLE: ECLIPSE (ANCHORED) SEE PROJECT MANUAL

FLOORING: MFMA NORTHERN HARD MAPLE UPGRADED 25/32" CONTINUOUS STRIP

XL PLUS FINGER-JOINTED (FJ)

2ND AND BETTER GRADE: 2 1/4" WIDE PLANKS SIZE:

VENTILATING BASE B-1: ROBBINS SPORTS SURFACES MFR:

3" WIDE x 4" HIGH SIZE:

COLOR: BLACK

BASKETBALL COURT PAINT: COLOR: 2" WIDE BLACK LINES PAINT: VOLLEYBALL COURT 2" WIDE WHITE LINES COLOR:

MULTI-COLOR SCHOOL LOGO PAINT:

ARTWORK: PROVIDED BY THE SCHOOL DISTRICT

CONTACT: MISSOURI FLOOR COMPANY

ALEX VERSEMAN (3|4) 432-2260

PAINT

PT-I WALL PAINT MFR: PORTER TYPE: SEE SPEC MANUAL

COLOR: A: TBD

PT-2 CEILING / SOFFIT PAINT

PORTER SEE SPEC MANUAL

TYPE: PPGI001-1 DELICATE WHITE COLOR:

INTERIOR HM. DOORS AND FRAMES / PT-3

INTERIOR LINTELS / MFR: PORTER TYPE: SEE SPEC MANUAL

COLOR: A: TBD

EXTERIOR LINTELS PT-4

MFR: PORTER TYPE: SEE SPEC MANUAL

COLOR: TBD

PT-5 DRYFALL CEILING PAINT

MFR: PORTER TYPE: SEE SPEC MANUAL

COLOR: TBD

PT-6 EXTERIOR FACE HM. DOORS

MFR: PORTER

SEE SPEC MANUAL TYPE:

TBD COLOR:

EPT-I EPOXY WALL PAINT

MFR: PORTER

TYPE: SEE SPEC MANUAL

COLOR:

EPT-2 EPOXY CEILING PAINT

MFR: PORTER

TYPE: SEE SPEC MANUAL

PPGIOOI-I DELICATE WHITE COLOR:

CONTACT: JANIE FARMER (502) 216-8997

ACOUSTICAL CEILING PANEL

ACOUSTICAL CEILING PANEL ACP-

MFR:

STYLE:

RADAR CLIMAPLUS (HIGH NRC)

SQUARE EDGE TYPE:

22111 NUMBER:

SIZE: 24" x 24" GRID: 15/16" DONN DXT SQ

COLOR: WHITE

REP:

MFR:

CHRIS BECHT

(636) 399-1853

TOILET PARTITIONS

BOBRICK

SIERRA SERIES

STYLE: TYPE: SOLID COLOR REINFORCED COMPOSITE

SCØ2 DESERT BEIGE COLOR:

MICHAEL HANLEY REP:

(800) 397-6622

ALTERNATE BID. NO 5

ACOUSTICAL TREATMENT @ GYMNASIUM

ACOUSTICAL WALL PANELS AT-1 MFR: GOLTERMAN & SABO

NUMBER: AP2 (SQUARE EDGES & CORNERS)

THICKNESS: 2 INCH NRC:

FABRIC XORE

STYLE: METEOR 6427 COLOR: TBD

ACOUSTICAL CEILING BANNERS AT-2

GOLTERMAN & SABO MFR:

NUMBER: BN2N

THICKNESS: 2" FIBERGLASS

NRC: FABRIC: NYLON WRAPPED

COLOR:

MOUNTING: PAINTED WASHERS, STIFFENERS REFER TO REFLECTED CEILING PLAN *NOTE:

FOR LAYOUT

CONTACT: GOLTERMAN & SABO CYNDI WALKER (800) 781-2036

FINISH SPECIFICATIONS LIST

SCALE: NONE

6



Project For:

FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon Billings, Missouri 65610

> DATE PROJ. NO.

June 2, 2017 16008

11 East Lockwood Avenue, Ste. 200 St. Louis, MO 63119 T 314 727 8500 F 314 727 4040 www.dharch.com DICKINSON HUSSMAN ARCHITECTS

ORIGINAL DRAWING ORIGINAL DRAWING DATE

A9.1 May 18, 2017 SDA-06

SECTION 09250 - GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Interior gypsum board.
 - 2. Exterior gypsum board for ceilings and soffits.
 - 3. Exterior aluminum vents for ceilings and soffits.
 - 4. Metal suspension system for ceilings and soffits.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For the following products:
 - 1. Trim Accessories: Full-size Sample in 12-inch- long length for each trim accessory indicated.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- 1. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
- 2. Interior suspended ceilings and soffits: Maximum deflection of 1/360 of distance between supports.
- 3. Exterior soffits: Withstand minimum positive and negative pressure of 20 psf with maximum deflection of 1/360 of distance between supports.
- 4. Nonstructural components that are permanently attached to structures and their support attachments, shall be designed and constructed to resist the effects of earthquake motions in accordance to local jurisdiction.

2.2 INTERIOR GYPSUM BOARD

- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. American Gypsum Co.

- b. CertainTeed.
- c. Georgia-Pacific Gypsum,LLC.
- d. Lafarge North America Inc.
- e. National Gypsum Company.
- f. PABCO Gypsum.
- g. Temple-Inland.
- h. USG Corporation.
- B. Regular Type: ASTM C 1396/C 1396M.
 - 1. Thickness: As shown on Drawings.
 - 2. Long Edges: Tapered.
- C. Type X:
 - 1. Thickness: As shown on Drawings.
 - 2. Long Edges: Tapered.
- D. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
 - 1. Thickness: As shown on Drawings.
 - 2. Long Edges: Tapered.
- E. Abuse-Resistant Type: ASTM C 1629/C 1629M. Manufactured to produce greater resistance to surface indentation and through-penetration (impact resistance) than standard, regular-type.
 - 1. Core: As indicated on Drawings, equal to Fiberock by USG.
 - 2. Long Edges: Tapered.
- F. Moisture- and Mold-Resistant Type: With moisture- and mold-resistant core and surfaces and equal to Aqua-Tough by USG.
 - 1. Core: As shown on Drawings.
 - 2. Long Edges: Tapered.
 - 3. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.

2.3 EXTERIOR GYPSUM BOARD FOR CEILINGS AND SOFFITS

- A. Glass-Mat Gypsum Sheathing Board: ASTM C 1177/C 1177M.
 - 1. Product: Subject to compliance with requirements, provide "Dens-Glass Gold" by Georgia-Pacific Gypsum.
 - 2. Core: As indicated.

2.4 CEILING AND SOFFIT SUPPORT MATERIALS

A. Hanger Anchorage Devices: Screws, clips, bolts or other devices compatible with indicated structural anchorage for ceiling hangers and whose suitability has been proven through standard construction practices or by certified test data.

B. Powder-Actuated Fasteners in Concrete: Fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers [and with capability to sustain, without failure, a load equal to 10x calculated loads].

C. Hangers:

- a. Steel wire or rods, sizes to comply with requirements of ASTM C754 for ceiling or soffit area and loads to be supported.
- b. Wire: ASTM A 641, soft, Class 1 galvanized.
- c. Rods and flats:
 - i. Mild steel components.
 - ii. Finish: Galvanized or painted with rust-inhibitive paint for interior work; galvanized for exterior work.

D. Framing System:

- a. Main runners:
 - 1. Cold-rolled, "C" shaped steel channels, 16 gauge minimum.
 - 2. Finish: Galvanized with G40 hot-dip galvanized coating per ASTM A525 [for exterior work]; galvanized or painted with rust-inhibitive paint for other interior work.
 - 3. Form to required radius at curved ceilings.
- b. Cross furring: Hat-shaped steel furring channels, ASTM C645, 7/8 inch high, 25 gauge, galvanized.
- c. Furring anchorages: 16 gauge galvanized wire ties, manufacturer's standard wire-type clips, bolts, nails or screws recommended by furring manufacturer and complying with ASTM C754.
- d. Provide compression posts and other accessories as required to comply with seismic requirements.

E. Proprietary Framing System:

- 1. Framing system for gypsum board panels consisting of cold-rolled steel members conforming to ASTM C635, with exposed surfaces finished in manufacturer's standard enamel paint finish.
- 2. Components: Main tees, furring cross channels, furring cross tees, and cross tees.

3. Accessories:

- a. U-shaped channel molding.
- b. Galvanized carbon steel (12 ga.) hanger wire.

4. Acceptable product: Equivalent to Drywall Suspension System by USG.

2.5 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
 - 1. Material: Paper-faced galvanized steel sheet.
 - 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. L-Bead: L-shaped; exposed long flange receives joint compound.
 - d. Expansion (control) joint.
- B. Exterior Trim: ASTM C 1047.
 - 1. Material: Hot-dip galvanized steel sheet, plastic, or rolled zinc.
 - 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. Expansion (Control) Joint: One-piece, rolled zinc with V-shaped slot and removable strip covering slot opening.
 - 3. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Fry Reglet Corp.
 - b. Gordon, Inc.
 - c. Pittcon Industries.
- C. Exterior Vent Louvers for Ceilings and Soffits:
 - 1. Aluminum Vent Louver: Equal to Model DCS-XX-V-300 (thickness as required) as manufactured by Fry Reglet Corporation. Aluminum shall be 6063 T5 extruded alloy.
 - a. Finish: Clear Anodized Aluminum
 - b. Accessories: Insect Screen
 - c. Reveal Width: 3"

2.6 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:

- 1. Interior Gypsum Wallboard: Paper.
- 2. Exterior Gypsum Soffit Board: Paper.
- 3. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.
 - 3. Fill Coat: For second coat, use setting-type, sandable topping compound.
 - 4. Finish Coat: For third coat, use setting-type, sandable topping compound.
- D. Joint Compound for Exterior Applications:
 - 1. Glass-Mat Gypsum Sheathing Board: As recommended by sheathing board manufacturer.

2.7 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
 - 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 - 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
- C. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from rock wool. Fiberglass batts will not be acceptable. Acceptable products are Therma Fiber, SAFB, Fibrex, and Roxul.
 - 1. Density: 2.5pcf
 - 2. Flame Spread: 0
 - 3. Smoke Developed: 0
- D. Acoustical Joint Sealant: As specified in Division 7 Section "Joint Sealants".
- E. Thermal Insulation: As specified in Division 7 Section "Building Insulation."
- F. Vapor Retarder: As specified in Division 7 Section "Building Insulation."

PART 3 - EXECUTION

3.1 METAL SUPPORT INSTALLATION

- A. Ceiling and Soffit Support Systems:
 - 1. Secure hangers or rods to structural support by connecting directly to structure where possible; otherwise connect to inserts, clips or other anchorage devices or fasteners indicated.
 - 2. Space main runners, hangers and furring according to requirements of ASTM C754, except as otherwise indicated.
 - 3. Where spacing of structural members, or width of ducts or other equipment, prevents regular spacing of hangers, provide supplemental hangers and suspension members and reinforce nearest affected hangers to span extra distance.
 - 4. Attach directly to structural elements only; do not attach to metal deck. Loop hangers and wire-tie directly or provide anchors or inserts.
 - 5. Install compression posts, splay wires and other accessories as required to comply with seismic requirements.
 - 6. Extend runners to within 6 inches of walls.
 - 7. Wire-tie or clip furring members to main runners and to other structural supports indicated. In fire resistance rated assemblies, wire-tie furring members; do not clip.
 - 8. Do not permit furring or runners to contact masonry or concrete walls.
 - 9. Provide 1 inch clearance between furring or runners and abutting walls and partitions.
 - 10. For proprietary framing system, comply with manufacturer's instructions.

3.2 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

3.3 APPLYING INTERIOR GYPSUM BOARD

A. Install interior gypsum board in the following locations:

- 1. Regular Type: As indicated on Drawings.
- 2. Type X: As indicated on Drawings.
- 3. Ceiling Type: As indicated on Drawings.
- 4. Abuse-Resistant Type: As indicated on Drawings.
- 5. Moisture- and Mold-Resistant Type: As indicated on Drawings.

3.4 APPLYING EXTERIOR GYPSUM PANELS FOR CEILINGS AND SOFFITS

- A. Apply panels perpendicular to supports, with end joints staggered and located over supports.
 - 1. Install with 1/4-inch open space where panels abut other construction or structural penetrations.
 - 2. Fasten with corrosion-resistant screws.

3.5 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints at locations indicated on Drawings and according to ASTM C 840 and in specific locations approved by Architect for visual effect.
- C. Interior Trim: Install in the following locations:
 - 1. Cornerbead: Use at outside corners.
 - 2. LC-Bead: Use at exposed panel edges.
 - 3. L-Bead: Use where indicated.
- D. Exterior Trim: Install in the following locations:
 - 1. Cornerbead: Use at outside corners.
 - 2. LC-Bead: Use at exposed panel edges.

3.6 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below:
 - 1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 - 2. Level 2: Panels that are substrate for tile.

- 3. Level 4: At panel surfaces that will be exposed to view, unless otherwise indicated.
 - a. Primer and its application to surfaces are specified in other Division 9 Sections.
- E. Glass-Mat Gypsum Sheathing Board: Finish according to manufacturer's written instructions for use as exposed soffit board.

3.7 PROTECTION

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 09250

#BHA-E (Electric) Backboard Height Adjuster Specifications

Provide electric-powered backboard goal height adjustment mechanism equal to the BHA-E by AALCO Manufacturing Co. of St. Louis, MO. Mechanism shall provide infinite vertical adjustment of the backboard and goal over a 2' range (typically 8' to 10') by means of a telescoping tubular steel framework powered by a 120 VAC, 22.5 inch/minute linear actuator having automatic travel cutoff at the up and down limits.

The mechanism shall be configured to mount to most types of ceiling or wall mounted backstop supports and so constructed as to support goal in a rigid, vibration-free manner in all positions. Power and up/off/down control shall be supplied by one or more mechanisms in a gym by means of 50 ft. extension cord and 5 ft. long portable "wand" equipped with control switch and tipped with a single female receptacle. The electric actuator of each mechanism shall be equipped with a matching male three prong, 5-15P plug easily accessible from floor level to the hand-held wand that plugs into any 110 volt AC electric outlet.

Optional wiring to remote control key switch available upon request.



ADDENDUM No. 2

Date: June 2, 2017 **Project Number:** 2016-0529.00

Project Name: Billings – FEMA Shelter **From:** Electrical: Kevin Brown

This addendum narrative forms a part of the Contract Documents and modifies the original Bid Documents dated 05/18/2017.

ELECTRICAL DRAWINGS

SHEET E0.1

A. "Revise" panel schedule for panel "P1" per attached sketch SDE-01.

SHEET E2.0

A. "Revise" drawing per attached sketch SDE-02.

END OF ADDENDUM NO. 2

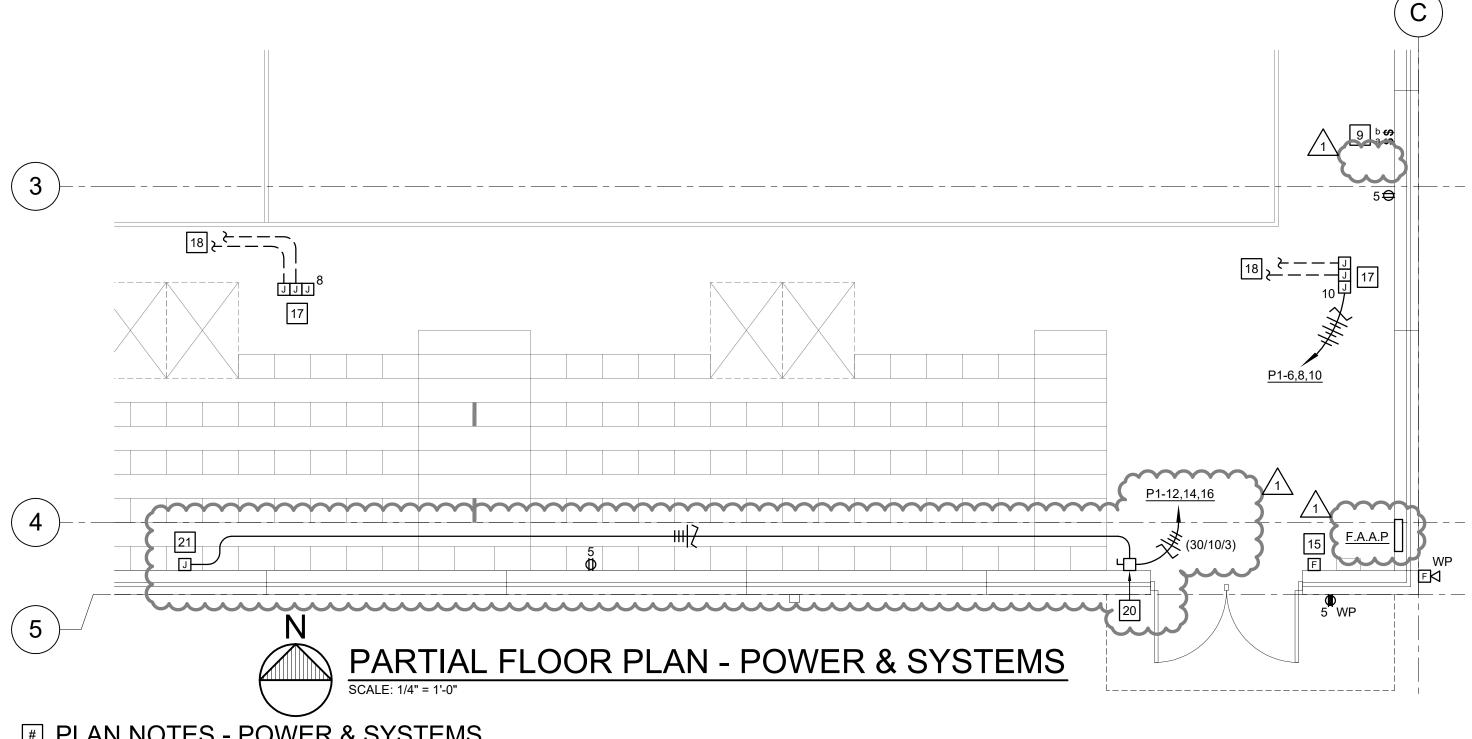
DE	SIGNATI	ON/I.D:		P1		TYPE OF PANEL: CIRCUIT B	REAKER ** MOUNTI	NG: SI	JRFACE				
VO	LTAGE:	120 /	208	/3PH-4W	(BUS SIZE (AMPS):	400 MAIN SV	/ITCH:	400A MC	B MAII	N RATING	AIC 22I	k
POLES: 3PSN LUGS: STANDARD		RD	TOTAL SPACE REQUIRED:	42 NOTES:	/	055							
FEEDER: SEE RISER DIAGRAM				λM		POWER SOURCE: UTILITY XF	MR	SERVICE ENTRANCE RATED					
C K T	C/B	LC	DAD (WAT	` '		LOAD DESCRIPTION	LOAD DESCRIPTION	LC	OAD (WAT	ΓS)	C/B	C K T	
#		AØ	BØ	CØ	S			S	AØ	BØ	CØ		#
1	20/1	1500			M1	MOTORIZED BBALL GOAL	MOTORIZED BBALL GOAL	M.	1500			20/1	2
3	20/1		500		M1	MOTORIZED PROJ. SCREEN	REC - GYM PROJECTOR	R		500		20/1	4
5	20/1				R	SPARE	REC - GYM FLOOR NORTH	R			360	20/1	6
7	20/1	180			R	REC - RTU-1	REC - GYM FLOOR SOUTH	R	360			20/1	8
9	25/1		2300		R	GIRLS - HAND DRYER	REC - GYM FLOOR EAST	R	2006	360	222	20/1	10
11	25/1			2300	R	BOYS - HAND DRYER	MOTORIZED BLEACHERS	M			865	20/3	12
13	20/1				R	SPARE		M3	865			-	14
15	20/1				R	SPARE	L	M3		865			16
17	20/1				R	SPARE	SPARE	R				20/1	18
19	20/1				R	SPARE	SPARE	R				20/1	20
21	20/1				R	SPARE	SPARE	R				20/1	22
23	20/1				R	SPARE	SPARE	R				20/1	24
25	20/2	1150			Н	UH-3	SPARE	R				20/1	26
27	-		1150		Н		SPARE	R				20/1	28
29	30/2			2000	Н	DWH-1	UH-4	Н			2500	30/2	30
31	-	2000			Н			H	2500			-	32
33	20/2		1500		Н	UH-1	UH-2	Н		1500		20/2	34
35	-			1500	Н			H			1500	-	36
37	175/3	13630			А3	RTU-1	PANEL "EM"	XF	6700			100/3	38
39	-		13630		А3			XF		7150		-	40
41	-			13630	А3			XF			6480	-	42
T	OTALS	18460	19080	19430			11925	10375	11705	TOTAL	LS		
	ONNECTI VOLT-AN	ED LOAD: MPERE)	90,9	75VA		NOTES: * PROVIDE L' ** 10,000 A.I.(CALC. DEMAND LOAD AMPERE:			231A			



FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon Billings, Missouri 65610

> DATE PROJ. NO.



PLAN NOTES - POWER & SYSTEMS

- 20. PROVIDE DISCONNECT SWITCH ON WALL FOR MOTORIZED BLEACHERS. MAKE FINAL CONNECTIONS VIA LOCAL DISCONNECT SWITCH. EXTEND WIRING TO JUNCTION BOX AS SHOWN. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND REQUIREMENTS WITH EQUIPMENT INSTALLER.
- 21. PROVIDE JUNCTION BOX MOUNTED AT 60" A.F.F. FOR MOTORIZED BLEACHERS. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND REQUIREMENTS WITH **EQUIPMENT INSTALLER.**



Project For:

FEMA Shelter Community Safe Room Billings R-IV School District

118 West Mount Vernon Billings, Missouri 65610

> DATE PROJ. NO.

June 02, 2017 16008

11 East Lockwood Avenue, Ste. 200 St. Louis, MO 63119 T 314 727 8500 F 314 727 4040 www.dharch.com DICKINSON HUSSMAN ARCHITECTS

ORIGINAL DRAWING ORIGINAL DRAWING DATE

E2.0 May 18, 2017

SDE-02