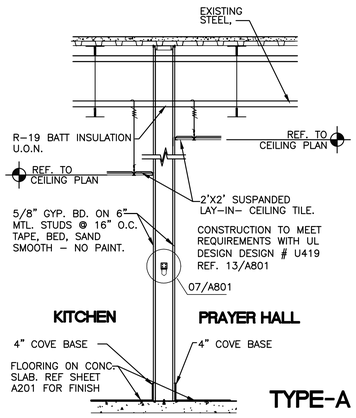
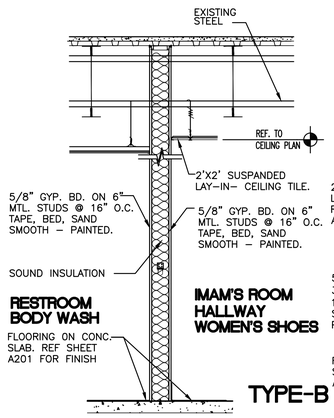


01 WALL SECTION
P-1 RATED WALL
1 HR RATED/UL # U419

SCALE : 1/2" = 1'-0"
C:\Projects\17041\details\WS01



02 WALL SECTION

SCALE : 1/2" = 1'-0"
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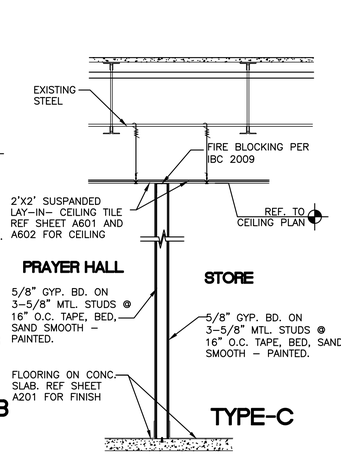

03 WALL SECTION

SCALE : 1/2" = 1'-0"
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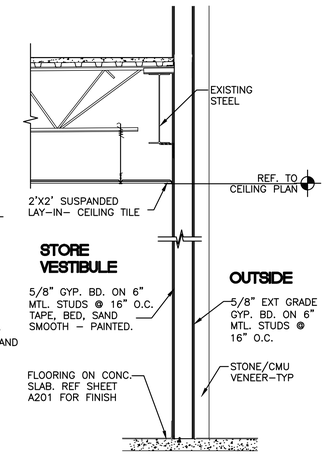

04 WALL SECTION

SCALE : 1/2" = 1'-0"
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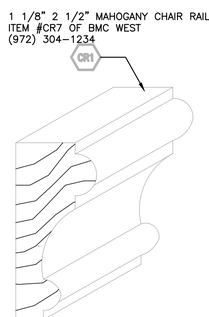
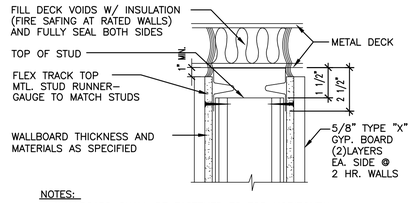


05 SECTION DETAIL

SCALE :12" = 1'-0"
C:\Projects\17041\Details\MD01

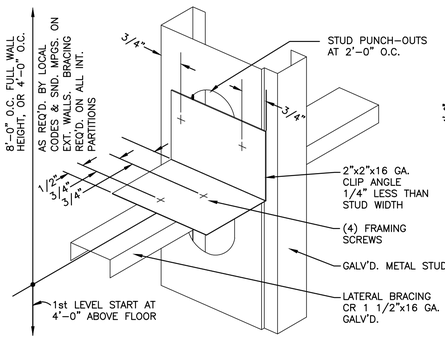


NOTES:

- WALLBOARD SHALL BE FASTENED TO TOP HORIZONTAL RUNNER LEG BELOW BELLOWS.
- FIRE TAPE ALL DRYWALL JOINTS ABOVE CEILINGS. SEAL AROUND ALL PENETRATIONS THRU OR INTO WALLS.
- PROVIDE FIRE STOP CAULKING AT ALL U.L. RATED PARTITIONS.
- AT WALL/JOIST INTERSECTIONS: CUT GYP. BOARD AROUND JOIST, 1" CLR. AT VERTICAL GAPS, 1/2" CLR. AT HORIZONTAL GAPS. FILL IN WITH SEALANT. DO NOT ATTACH STUDS OR STUD TRACKS TO JOISTS.

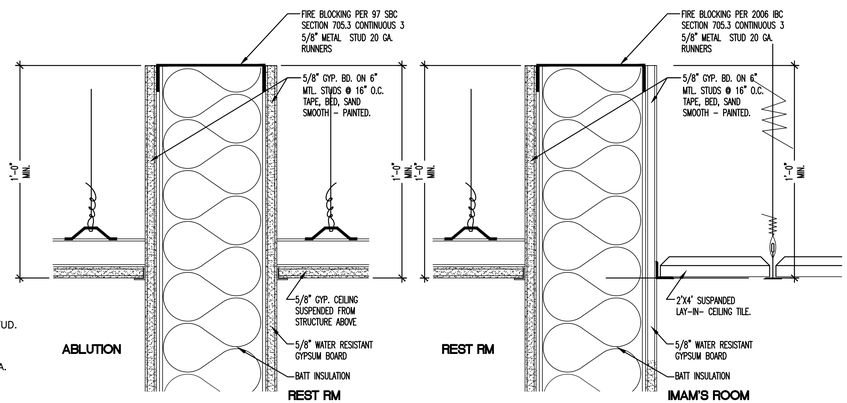
06 WALL DETAIL

SCALE : 3" = 1'-0"
C:\Projects\17041\details\WD01



07 LATERAL BRACING DETAIL

SCALE : 3" = 1'-0"
C:\Projects\17041\details\WD02

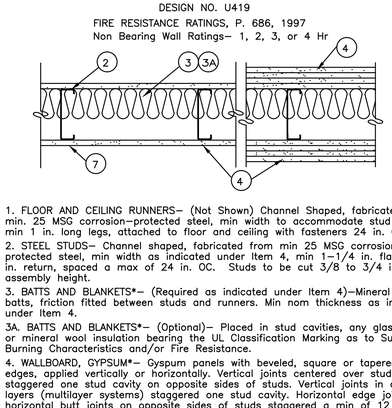


08 WALL DETAIL
• REST ROOM CEILING

SCALE : 3" = 1'-0"
C:\Projects\17041\details\WD03

09 WALL DETAIL
• REST ROOM CEILING

SCALE : 3" = 1'-0"
C:\Projects\17041\details\WD04



1. FLOOR AND CEILING RUNNERS- (Not Shown) Channel Shaped, fabricated from min. 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. STEEL STUDS- Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in less than assembly height.
3. BATTS AND BLANKETS*- (Required as indicated under Item 4)-Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4.

3A. BATTS AND BLANKETS*- (Optional)- Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

4. WALLBOARD, GYPSUM*- Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2hr, 3hr, and 4hr ratings are as follows:

WALLBOARD PROTECTION ON EACH SIDE OF WALL

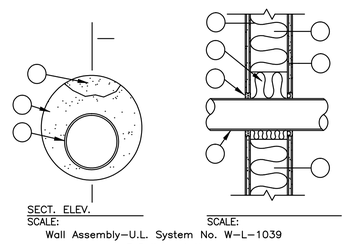
RATING	MIN. STUD DEPTH	NO. OF LAYERS AND THICKNESS OF PANELS	MIN. THICKNESS OF INSULATION
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

United States Gypsum Co.-1/2 in thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRK, IP-X1, AR, C, WRC, or IP-X2; 3/4 in thick ULTRACODE or Type IP-X3

5. FASTENERS- (Not Shown)-Type S or S-12 self drilling, self-tapping steel screws, used to attach panels to studs (Item 2) or furring channels (Item 6)
SINGLE LAYER SYSTEMS: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in long for 3/4 in. thick panels, spaced 8 in. OC. when panels are applied horizon. or 12 in. O.C. when panels are applied vertically.
TWO LAYER SYSTEMS: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1 1/4 in. long for 3/4 in thick panels, spaced 16 in. O.C. Second layer- 1-5/8 in. long for 1/2 in thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.
THREE LAYER SYSTEMS: First layer-1 in. long for 1/2 in. thick panels, spaced 24 in. O.C. Second layer- 1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. O.C. Third layer- 2-1/4 in. long for 1/2 in. thick panels, spaced 12 in. O.C. Screws long for 1/ 2 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
FOUR LAYER SYSTEMS: First layer- 1 in. long for 1/2 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. O.C. Third layer- 2-1/ 4 in long for 1/ 2 in. thick panels, spaced 24 in. O.C. Fourth layer- 2- 5/8 in. long for 1/ 2 in. thick panels, spaced 12 in. O.C. Screws offset min 6 in. from layer below.

6. FURRING CHANNELS- (Optional, not shown, for single or double layer systems) Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 panhead steel screws.
7. JOINT TAPE AND COMPOUND- Vinyl or Casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer panels.

TYPE-A



Wall Assembly-U.L. System No. W-L-1039
F Rating- 1 Hr.
(formerly 605)

1. Wall Assembly – The fire rated gypsum wallboard/ stud wall assem shall be constructed of the materials and in the manner specified in the individual U300 and U400 Series Wall and Partition Designs in the U Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. O.C. Steel studs to be min. 2 1/2 in. wide and spaced max 24 in. O.C.
   B. Batts and Blankets* – Nom 1-1/2 in. thick mineral wool batts friction fitted to fill interior of stud cavities.
   C. Wallboard, Gypsum* – The gypsum wallboard type, thickness, numb of layers and orientation shall be as specified in the individual Wall and Partition Design. Max dia. of opening is 6 in.
2. Through Penetrations – One metallic pipe, conduit or tubing to be installed in either concentrically or eccentrically within the firestop system. Pipe conduit or tubing to be rigidly supported on both sides of wall assembly The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be min 1/4 to max 1-5/8 in. When steel pipe is used T Rating is 0 hr.
   B. Conduit – Nom 4 in diam or smaller steel electrical metallic tubing or steel conduit. The annular space shall be min 1/4 to max 1-5/8 in. When conduit is 1/2 in diam or less, T Rating is 1 hr.
   C. Copper Tubing – Nom 4 in diam (or smaller) Type M (or heavier) copper tubing. The annular space shall be min 1/4 to max 1-5/8 in. When copper tubing is used, T Rating is 0 hr.
3. FORMING MATERIAL* – Min. 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   USG Interiors Inc. – type SAF
4. FILL, VOID OR CAVITY MATERIAL* – Min. 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed at a rate of 2.1 parts dry mix to 1 part water by weight in accordance with the accompanying installation instructions.
   United States Gypsum CO. – Type FC

4A. FILL, VOID OR CAVITY MATERIAL* – Not Shown – Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation instructions.
   United States Gypsum CO. – Type RFC

*Bearing the UL Classification Marking

5. Batts & Blankets

13 U.L. DESIGN NO. U 419 (RATED WALLS)
(OCCURS • ALL INTERIOR RISER ROOM WALLS + INTERIOR PARTITIONS

SCALE 1/4"=1'-0"
C:\Projects\17041\details\UL-419

14 U.L. DESIGN NO. W-L-1039

SCALE :1 1/2" = 1'-0"
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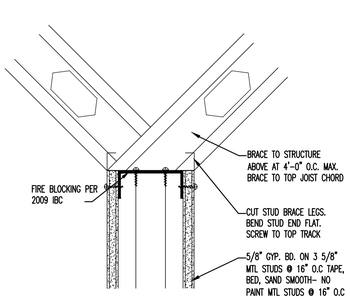
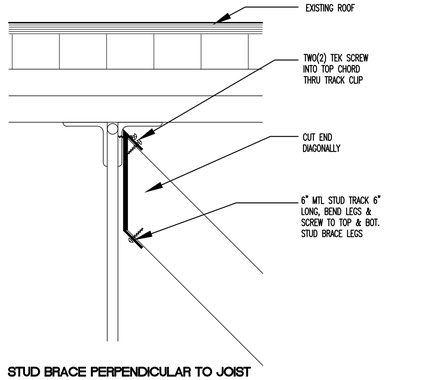


STUD BRACE AT WALL TOP



STUD BRACE PERPENDICULAR TO JOIST

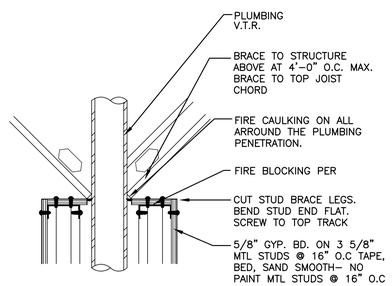
BRACING DETAIL

10 WALL DETAIL

SCALE :3" = 1'-0"
C:\Projects\17041\details\WD05

11 WALLDETAIL

SCALE :3" = 1'-0"
C:\Projects\17041\details\WD06



12 DETAIL SECTION

SCALE : 1 1/2" = 1'-0"
C:\Projects\17041\details\WD07

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Original Date:
JUNE 22, 2017

Issue Log

ISSUED FOR REVIEW	06/30/2017
ISSUED FOR REVIEW	07/05/2017
ISSUED FOR REVIEW	07/06/2017
ISSUED FOR REVIEW	07/08/2017
ISSUED FOR REVIEW	08/02/2017
ISSUED FOR PERMIT	08/07/2017
OWNER'S COMMENT	10/05/2017

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FACE UPLIFT AND INTERIOR FINISH OUT

MASJID

ISLAMIC ASSOCIATION OF FORT WORTH

AT 4500 COLUMBUS TRAIL, FORT WORTH, TEXAS 76133

Sheet Number:
A801

Project Number:
17-041