FIRESTOP JOINT SPRAY DETAIL

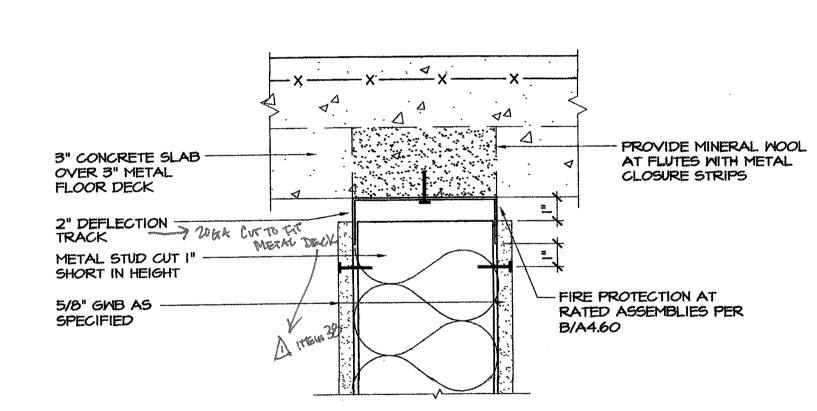
- 1/2" MAX. GAP 'S' STEEL SCREWS 24" o/c STEEL STUD. NOTE: REFER TO WALL TYPES FOR G.W.B. ATTACHMENT METHODS. -VINYL OR METAL CONTROL JOINT NOTE: FIRE RATING AS PER

DEMISING WALLS, TYPICAL GYPSUM WALL CONTROL JOINT DETAIL

GYPSUM ASSOCIATION REQUIREMENTS

FIRE RATING: 1-HOUR NON-COMBUSTIBLE

LOCATE ALONG CORRIDOR .



DEFLECTION TRACK DETAIL SCALE: 3'' = 1'-0''

4" 'C-H' SHAPED STUDS OF 25 MSG GALV. STEEL GUT TO LENGTHS 3/8" TO 1/2" LESS THAN FLOOR/CEILING HEIGHT & SPACED 24" o/c

SHAFT SIDE 4" MIDE 'J' SHAPED FLOOR, SIDE & CEILING RUNNERS W/UNEQUAL LEGS OF 1" \$ 2", FABRICATED FROM MIN. 24 MSG GALV. STEEL. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. ATTACHED TO STRUCTURAL SUPPORTS W/STEEL FASTENERS LOCATED NOT GREATER THAN 2" FROM ENDS & NOT MORE THAN 24 o/c.

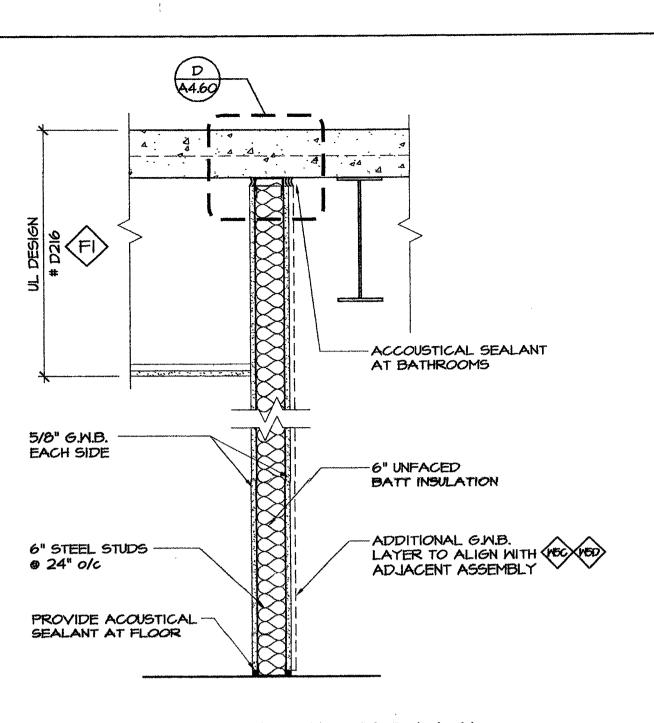
(I) LAYER 5/8" G.N.B.-TYPE 'X' APPLIED VERT. OR HORIZ. ATTACHED TO STUDS W/I" LONG TYPE S STEEL SCREWS SPACED 24" o/c WHEN INSTALLED VERTICALLY OR 16" O/C WHEN INSTALLED HORIZONTALLY.

GYPSUM LINER PANELS TYPE 'X', NOM. I" THICK, 24" WIDE. PANELS CUT I" LESS IN LENGTH THAN FLOOR/CEILING HEIGHT. VERTICAL EDGES INSERTED IN 'H' PORTION OF 'C-H' STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF VERTICAL 'J' RUNNERS WITH 1-5/8" LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12" O/C WHEN WALL HEIGHT EXCEEDS LINER PANEL LENGTH, LINER PANEL MAY BE BUTTED TO EXTEND TO FULL HEIGHT OF WALL. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING

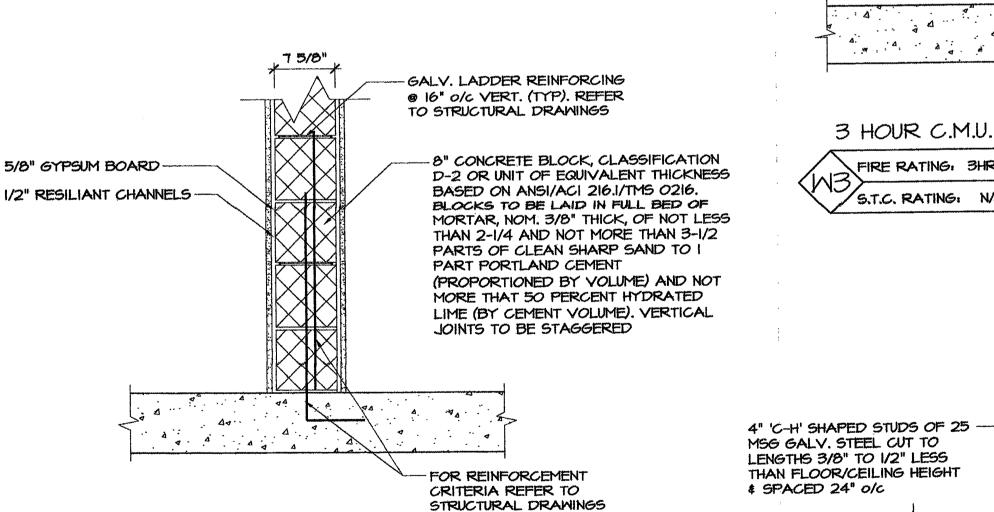
HORIZONTAL SECTION

I HOUR SHAFT WALL - SYSTEM A

FIRE RATING: I HR DESIGN: UL #U-415 (A) NON-LOAD BEARING S.T.C. RATING:

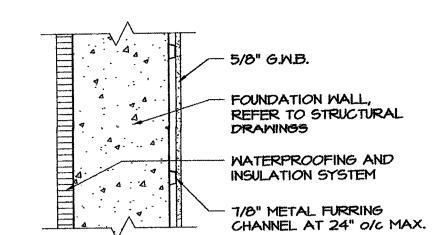


TYP. NON-RATED INT. PARTITION FIRE RATING: N/A DESIGN: N/A S.T.C. RATING: N/A NON-LOAD BEARING N5A > 3 5/8" METAL STUDS AT 24" o/c 3 5/8" STUD, W/O BATT INSULATION, ONE LAYER G.W.B. ONE SIDE ONLY 3 5/8" STUD, W/O BATT INSULATION, TWO LAYERS G.W.B. ONE SIDE ONLY 2 5/8" STUD, W/O BATT INSULATION, ONE LAYER G.M.B. ONE SIDE ONLY 6" METAL STUDS, ONE LAYER G.M.B. ONE SIDE ONLY



2 HOUR CMU WAL

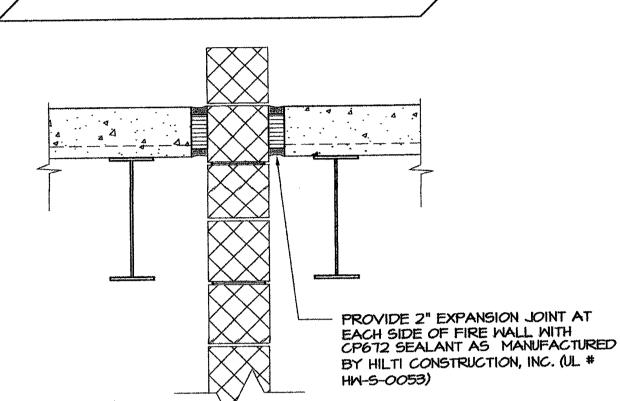
2 1001 0.1 1.0. 7 17 12 12		
ING FIRE RATING: 2HR	DESIGN: UL# U906	
S.T.C. RATING: N/A	8" NON-LOAD BEARING	_/
AIG A FIRE RATING: 2HR	DESIGN: UL# U906	
CHANNELS AND GMB ON ONE SIDE ONLY		
FIRE RATING: 2HR	DESIGN: UL# U906	
WO CHANNELS AND I		



NON-RATED PARTITION

(M4A) 15/8" L.G.M.F. @ 24" O.C.

FIRE RATING: NA	DESIGN: N/A
S.T.C. RATING: NA	LOAD BEARING



-GALV. LADDER REINFORCING @ 16" o/c VERT. (TYP). REFER TO STRUCTURAL DRAWINGS

-8" CONCRETE BLOCK, CLASSIFICATION D-3 OR UNIT OF EQUIVALENT THICKNESS BASED ON ANSI/ACI 216.1/TMS 0216. BLOCKS TO BE LAID IN FULL BED OF MORTAR, NOM. 3/8" THICK, OF NOT LEGS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND TO I PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAT SO PERCENT HYDRATED LIME (BY CEMENT VOLUME), VERTICAL JOINTS TO BE STAGGERED

FOR REINFORCEMENT CRITERIA REFER TO STRUCTURAL DRAWINGS

3 HOUR C.M.U. FIRE WALL

FIRE RATING.	3HR	DESIGN: UL# U904
S.T.C. RATING:	N/A	6" NON-LOAD BEARING

(2) LAYERS 5/8" G.W.B.-TYPE 'X' APPLIED VERT. OR HORIZ. BASE LAYER ATTACHED TO STUDS W/I" LONG TYPE S STEEL SCREWS SPACED 24" O/C WHEN INSTALLED VERTICALLY OR 16" O/C WHEN INSTALLED HORIZONTALLY. OUTER LAYER ATTACHED TO STUDS W/1-5/8" LONG TYPE S STEEL SCREWS SPACED 12" o/c WHEN INSTALLED VERTICALLY & STAGGERED 8" FROM BASE SCREMS, OR 8" O/C WHEN INSTALLED HORIZONTALLY & STAGGERED 8" FROM BASE SCREMS. HORIZONTAL JOINTS BETWEEN INNER & OUTER LAYERS STAGGERED A MIN. OF 12". VERTICAL JOINTS CENTERED OVER STUDS & STAGGERED 24"

> GYPSUM LINER PANELS TYPE 'X', NOM. I" THICK, 24" MIDE. PANELS CUT I" LESS IN LENGTH THAN FLOOR/CEILING HEIGHT. VERTICAL EDGES INSERTED IN 'H' PORTION OF 'C-H' STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF VERTICAL 'J' RUNNERS WITH 1-5/8" LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12" O/C WHEN WALL HEIGHT EXCEEDS LINER PANEL LENGTH, LINER PANEL MAY BE BUTTED TO EXTEND TO FULL HEIGHT OF WALL. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING

HORIZONTAL SECTION

SHAFT SIDE

4" WIDE 'J' SHAPED FLOOR, SIDE & CEILING

FABRICATED FROM MIN. 24 MSG GALV. STEEL.

TOWARD FINISHED SIDE OF WALL. ATTACHED

FASTENERS LOCATED NOT GREATER THAN 2"

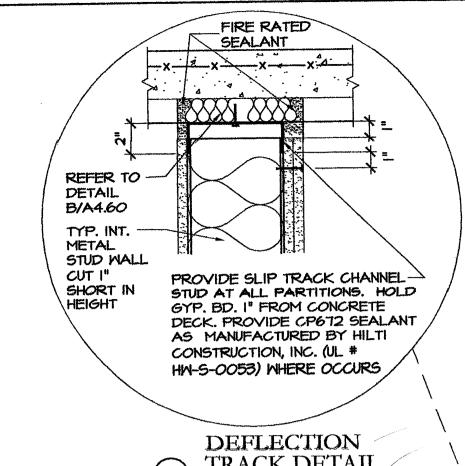
RUNNERS W/UNEQUAL LEGS OF I" \$ 2",

TO STRUCTURAL SUPPORTS W/STEEL

RUNNERS POSITIONED WITH SHORT LEG

FROM ENDS & NOT MORE THAN 24 o/c.

2 HOUR SHAFT	WALL - SYSTEM B	
FIRE RATING: 2 HR	DESIGN: UL #U-415 (B)	_
S.T.C. RATING:	NON-LOAD BEARING	
FIRE RATING: 2 HR	DESIGN: UL #U-415 (B)	\
2 1/2" C-H METAL STUDS		



TRACK DETAIL

CEILING WITH FASTENERS 24" O/C MAX. DEFLECTION TRACK -FASTENERS - TYPE 'S' OR 'S-12' STEEL SCREWS. FIRST LAYER - I" LONG FOR 1/2" AND 5/8" THICK PANELS, SPACED 16" o/c SECOND A.C.T OR G.M.B. CEILING. REFER TO REFLECTED CEILING LAYER 1-5/8" LONG SCREMS FOR 1/2" AND 5/8" THICK PANELS,

PLAN FOR CEILING TYPE GLASS FIBER OR MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS, BEARING THE UL CLASSIFICATION MARKING

CHANNEL SHAPED RUNNER TRACK MIN .--

25 GA. CORROSION PROTECTED STEEL

W/MIN. 2" LONG LEGS, ATTACHED TO

(2) LAYERS OF 5/8" TYPE 'X' 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 STAGGERED ONE STUD CAVITY. HORIZONTAL EDGE JOINTS

AND BUTT JOINTS IN ADJACENT

6" CHANNEL SHAPED STEEL STUDS, FABRICATED FROM 25 MSG. CORROSION-PROTECTED STEEL MIN. 1-1/4" FLANGES AND 1/4" RETURN, SPACED 24" o/c MAXIMUM. STUDS TO BE OUT 3/8" TO 3/4" LESS THAN ASSEMBLY HEIGHT

SPACED 16" o/c WITH SCREMS

OFFSET 8" FROM FIRST LAYER

-CHANNEL SHAPED RUNNER TRACK MIN. 25 GA. CORROSION PROTECTED STEEL WMIN. I" LONG LEGS, SET ON BEAD OF ACOUSTICAL SEALANT, ATTACHED TO FLOOR WITH FASTENERS 24" o/c MAX.

-FLOOR SLAB

LAYERS STAGGERED A MINIMUM OF 12" TYPICAL FIRE RATED PARTITION

FIRE RATING: 2 HR. DESIGN: #U419 S.T.C. RATING: N/A NON-LOAD BEARING FIRE RATING: I HR. DESIGN: #U419 6" STUD, ONE LAYER OF G.M.B. BOTH SIDES FIRE RATING: 2 HR. | DESIGN: #U419 3 5/8" METAL STUDS FIRE RATING: I HR. DESIGN: #U419

3 5/8" STUDS, ONE LAYER OF G.W.B. BOTH SIDES FIRE RATING: 2 HR. | DESIGN: #U419 WO BATT INSULATION

FIRE RATING: I HR. DESIGN: #U419 W/O BATT INSULATION, G.W.B. BOTH SIDES

GENERAL NOTES:

I. ALL PENETRATIONS THROUGH THE FIRE RATED ASSEMBLIES BOTH HORIZONTALLY AND VERTICALLY SHALL BE SEALED WITH FIREPROOFING MATERIALS TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY RATING.

2. WHERE A TESTING LAB DESIGN NUMBER IS DESIGNATED (i.e., UL, GYPSUM ASSOC., ETC.), PARTITIONS MUST BE CONSTRUCTED IN STRICT ACCORDANCE W/THE TESTED DESIGN ASSEMBLY. REFER TO THE TESTING LABORATORY'S DIRECTORY (I.E., UL FIRE RESISTANCE DIRECTORY - 2006 OR GYPSUM ASSOC. FIRE RESISTANCE DESIGN MANUAL - 17TH EDITION) FOR DETAILS ON MATERIALS AND FASTENER REQUIREMENTS.

3. REFER TO TESTING AGENCY REFERENCED FOR FASTENING CRITERIA AND BACKBLOCKING OF G.W.B. JOINTS. ALL JOINTS AND SCREW HEADS FINISHED.

4. COORDINATE LOCATIONS OF WIRING AND PLUMBING WITHIN THE FRAMING.

5. ELECTRICAL BOXES LOCATED ON OPPOSITE SIDES OF WALL OR RATE PARTITIONS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES. THE MINIMUM SEPARATION DISTANCE BETWEEN BOXES IN REDUCED WHEN "WALL OPENING PROTECTIVE MATERIALS" (CLIV) THE SURFACE AREA OF THE INDIVIDUAL BOXES SHALL NOT FICE EDILO SQ. IN.
THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCELL TOO SQ. IN.
IN. PER 100 SQ. FT. OF WALL SURFACE.

REFER TO SPECIFICATIONS FOR

SYSTEMS.

PROJECT ARCHITECT: MW

DRAWN BY:

DO NOT SCALE DRAWING. USE WRITTEN DIMENSIONS. WHERE NO WRITTEN DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

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