BRICK WALL
CONTROL JOINT

1" = 1'-0"

04A-3001

- SASH UNIT
- PREFORMED GASKET
- SOLID GROUTED CELLS
- STRUCTURAL BRICK
- RAKE JOINT 3/4" (TYP.) AND SEAL WITH LATEX CAULKING
CORE FILLED WITH MORTAR FOR LATERAL STABILITY
SEAL VERTICAL MORTAR JOINT WITH LATEX CAULKING

BUILDING FELT ON ONE SIDE ONLY OR COAT OF ASPHALT PAINT

8” STRUCTURAL BRICK

BRICK WALL CONTROL JOINT

1” = 1’-0”
1. BRICK WALL.
2. 3 5/8" METAL STUDS.
3. R-11 BATT INSULATION.
4. CERAMIC TILE.
5. MORTAR BED AND METAL LATH.
6. CEMENTITIOUS BOARD.

2 HOUR FURRED BRICK WALL

3” = 1’-0”
Framing Section

3/4" = 1'-0"

2 x 6 Studs @ 16" O.C.

1/2" Ext. Wall Sheathing

2 x 6 Continuous, w/ 0.145" Ø Drive Pins @ 16" O.C., Staggered

L 4" x 4" x 1/4" Cont.

Standard AISC Double Angle Shear Connection with Maximum Number of 3/4" Ø Bolts

W12, See Plan

L 6" x 3-1/2" x 5/16" Continuous (LLV) Brick Ledge

Beam, See Plan

Brick Hanger Assembly

L 4" x 4" x 1/4" x 0'-8" Horizontal & L 4" x 4" x 1/4" Vertical Welded with 1/4" Fillet at Lap at 3'-0" O.C. (Stiffen Beam Web)

Note: At Locations Where Beam is Dropped, Cut Out Web of W12 to Make Moment Connection.
BRACKET ASSEMBLY
L 3” X 3” X 1/4” HORIZONTAL WITH
L 4” X 3” X 1/4” X 0’-4” (LLV) HANGERS. WELD WITH
1/4” FILLET ALL AROUND

STANDARD AISC DOUBLE ANGLE SHEAR CONNECTION
WITH MAXIMUM NUMBER OF
3/4” φ BOLTS

FRAMING SECTION
3/4” = 1’-0”

04A-2002
6", 18 GA. STRUCTURAL 'C' STUD @ 16" O.C.

6", 18 GA. TRACK, WITH 0.145 Ø DRIVE PINS @ 16" O.C. STAGGERED

4" CONC. SLAB, SEE PLAN.

4" BRICK VENEER, SEE ARCHITECTURAL

1/2" EXTERIOR SHEATHING

#4 DOWEL X @ 48" O.C.

3'-6" MIN. FROST PROTECTION

4" 10" 4" 1'-6"

4" 10" 4"

2'-8"

3' CLR.

4" 10" 4"

3'-6"

(2) #5 CONT. TOP AND BOT.

FOOTING & STEM WALL

3/4" = 1'-0"

04A-2003
4" BRICK VENEER, SEE ARCHITECTURAL

4" CONCRETE SLAB, SEE PLAN.

#4 @ 24" O.C. EACH WAY, CENTERED IN FULLY GROUTED CENTER.

3" C.L.B. 2'-8" 10" 4" 1'-6"

#5 CONTINUOUS TOP AND BOT.

#4 DOWEL X 2'-0" 48" O.C.

INTERIOR FOOTING & STEM WALL

3/4" = 1'-0"

04A-2004
1. 15# FELT UNDERLAYMENT UNDER COMPOSITION SHINGLES.
2. ROOF DECKING.
3. 2 X RAFTERS.
4. DOUBLE TOP PLATE.
5. 2 X 4 RETURN.
6. 3/4" FASCIA.
7. 2 X FASCIA
8. 1/4" PLYWOOD SOFFIT.
9. 1 X FREIZE BOARD.
10. INSULATION BOARD.
11. AIR SPACE.
12. BRICK WITH BRICK TIES PER MANUFACTURER’S SPECIFICATIONS.
13. 1/2" X 15" ANCHOR BOLTS, 6'-0" O.C., 12" FROM CORNERS.
14. FLASHING WITH WEEP HOLES @ 48" O.C.
15. FINISHED GRADE.
16. (4) #4 REBARS ALL IN SOLID FOOTING 3" OFF BOTTOM.
17. TYPICAL 4" CONCRETE POST, 4'-0" O.C. UNDER LOAD-BEARING WALLS.
18. COMPACTED EARTH FILL.
19. 1" STYROFOAM WITH 6 MIL VAPOR BARRIER.
20. 4" CONCRETE SLAB, 3,000 P.S.I. WITH 6" X 6" 10 GA. X 10 GA. WELDED WIRE FABRIC.
21. 1/2" GYPSUM BOARD.

EXTERIOR WALL SECTION

1/2" = 1'-0"
1. 2 X 6 WOOD STUD WALL.
2. CULTURED STONE VENEER.
3. CULTURED STONE LEDGE.
4. CAULKING.
5. 24 GAUGE GALVANIZED METAL FLASHING.
6. HARDBOARD SIDING OR STUCCO.
7. 1/2” GYPSUM BOARD.
8. 1/2” SHEATHING.
1. 2 X 6 WOOD STUD WALL.
2. CULTURED STONE VENEER.
3. CULTURED STONE LEDGE.
4. CAULKING.
5. 24 GAUGE GALVANIZED METAL FLASHING.
6. HARDBOARD SIDING OR STUCCO.
7. 1/2" GYPSUM BOARD.
8. 1/2" SHEATHING.

STONE LEDGE

1 1/2” = 1’-0”
1. Continuous footing with (2) #4 rebar.
2. 8” CMU ‘BOND BEAM’ course.
3. 4” Concrete slab over 4” aggregate base course.
4. 2 x 4 stud wall with 1/2” gypsum board at interior and 1/2” O.S.B. exterior sheathing.
5. Face brick - see elevations.
7. #4 rebar at 6’-0” O.C.
8. Finished grade.

FOOTING

1” = 1’-0”
1. CONTINUOUS FOOTING WITH (2) #4 REBAR.
2. 8" CMU 'BOND BEAM' COURSE.
3. 4" CONCRETE SLAB OVER 4" AGGREGATE BASE COURSE.
4. 2 X 4 STUD WALL WITH 1/2" GYPSUM BOARD AT INTERIOR AND 1/2" O.S.B. EXTERIOR SHEATHING.
5. FACE BRICK - SEE ELEVATIONS.
6. SOLE PLATE.
7. #4 REBAR AT 6'-0" O.C.
8. FINISHED GRADE.
1. 6" CMU WALL – GROUT SOLID.
2. HOLLOW FRAME WITH JAMB ANCHORS – GROUT SOLID.
3. FACE BRICK.
4. CAVITY WALL INSULATION.
5. SILICONE SEALANT.
1. 6" CMU WALL - GROUT SOLID.
2. HOLLOW FRAME WITH JAMB ANCHORS - GROUT SOLID.
3. FACE BRICK.
4. CAVITY WALL INSULATION.
5. SILICONE SEALANT.
1. 4" FACE BRICK.
2. 6" CMU.
3. SEALANT AT BOTH SIDES OF FRAME.
4. ALUMINUM WINDOW.
5. 1/4" TEMPERED GLASS.

WINDOW JAMB

3" = 1'-0"
1. 4" FACE BRICK.
2. 6" CMU.
3. SEALANT AT BOTH SIDES OF FRAME.
4. ALUMINUM WINDOW.
5. 1/4" TEMPERED GLASS.

WINDOW JAMB
3" = 1'-0"
04A-2010
1. 4" FACE BRICK.
2. 6" CMU.
3. SEALANT AT BOTH SIDES OF FRAME.
4. ALUMINUM WINDOW.
5. 1/4" TEMPERED GLASS.
6. CONCRETE SILL.

WINDOW SILL

3" = 1’-0”

04A-2011
1. 4" FACE BRICK.
2. 6" CMU.
3. SEALANT AT BOTH SIDES OF FRAME.
4. ALUMINUM WINDOW.
5. 1/4" TEMPERED GLASS.
6. CONCRETE SILL.

WINDOW SILL
3" = 1'-0"
THINSET PLASTER

BRICK PAVERS

MORTAR UNIT

GROUTING

PLYWOOD SUBFLOOR

PAPER/WIRE MESH

FLOOR JOISTS

BRICK_PAVERS

3" = 1'-0"

04A-5001
BRICK PAVERS

THINSET

WEATHERPROOF MEMBRANE
(IF REQUIRED)

GROUTING

CONCRETE SLAB

3" = 1'-0"

04A-5002
45° CORNER OR 135° CORNER

1. FLAT BRICK COURSE ON PLANTER WALL.
2. MITERED CORNERS.
3. GROUT JOINT.
4. 1/2 BRICK AT 90° CORNERS.
5. PLANTER WALL BELOW.

PLANTER CAP

1” = 1’-0”

04A-5003
1. Flat brick course on planter wall.
2. Mitered corners.
4. 1/2 brick at 90° corners.
5. Planter wall below.

Planter Cap

1" = 1'-0"
BRICK PILASTER

GROUT CAVITY
SOLID

(4) #4 VERTICAL CONTINUOUS

(4) REBAR TIES @ 48” O.C.

BRICK PILASTER-GROUT SOLID

1" = 1’-0”
8" BRICK CAVITY WALL

BRICK TIES @ 24" O.C., STAGGERED

8" BOND BEAM, CROUT SOLID WITH (2) #4 REBAR, TOP AND BOTTOM

26 GAUGE SHEET METAL

4" CANT STRIP

MODIFIED BITUMEN REINFORCED SHEET ROOFING ON PLYWOOD DECK

REGLET AND COUNTERFLASHING

2 X ROOF JOISTS

LEDGER WITH ANCHOR BOLTS, SEE STRUCTURAL

2'-6" MINIMUM
1. (2) #5 CONTINUOUS BOND BEAM.
2. #5 REBAR AT 48” O.C.
3. SOLID GROUT ALL CELLS BELOW GRADE.
4. CONTINUOUS FOOTING WITH (2) #4 REBARS CONTINUOUS.
5. SOLID BOTTOM LINTEL BLOCK TURNED UPSIDE DOWN.
6. 8 X 8 X 16 CMU – PAINTED.
7. FINISH GRADE.
8. 5” CONCRETE SLAB ON 4” A.B.C.
9. 8 X 8 X 16 SPLITFACE CMU.
1. (2) #5 REBARS CONTINUOUS @ BOND BEAM.
2. #5 REBAR AT 48” O.C.
3. SOLID GROUT ALL CELLS BELOW GRADE.
4. CONTINUOUS FOOTING WITH (3) #4 REBARS CONTINUOUS.
5. SOLID BOTTOM LINTEL BLOCK TURNED UPSIDE DOWN – PAINTED.
6. 8 X 8 X 16 CMU – PAINTED.
7. CONCRETE SLAB ON A.B.C.
8. ASPHALTIC CONCRETE PAVEMENT OVER A.B.C.
9. WAINSCOT OF 8 X 8 X 16 SPLITFACE CMU.
1. 6” CMU SCREEN WALL.
2. CMU TO BE SEALED AND PAINTED ON ONE SIDE ONLY.
3. #4 REBAR FULL HEIGHT AND GROUT SOLID @ 48’ O.C.
4. EXPANSION JOINT.
5. STUCCO FINISH OR SPLIT FACE CMU.

CMU SCREEN WALL

SCALE: 3/4” = 1’-0”

04B-1003
EXPANSION JOINT @ FURRED C.M.U. WALL

3" = 1’-0”

1. SEALANT.
2. JOINT FILLER.
3. PREMOLDED CONTROL JOINT.
4. MASONRY WALL.
5. METAL STUDS.
6. R-11 BATT INSULATION.
7. 1/4” CERAMIC TILE ON 1” CEMENT MORTAR SETTING BED ON METAL LATH.

Samples from www.AutoCADDetails.net
1. MASONRY WALL.
2. 5/8" GYPSUM BOARD.
3. 3-5/8" METAL STUD.
4. ALUMINUM STOREFRONT BREAK METAL ANGLE, SECURED TO MASONRY ONLY.
5. 1" EXPANSION JOINT.
1. SOLID GROUTED CMU.
2. "BALCO" 6000 SERIES EXPANSION JOINT TYPE 6TWC-1.
3. PRE-MANUFACTURED COMPRRESSIBLE EXPANSION JOINT FILLER.
4. FILL EXPANSION JOINT VOID W/ BATT INSULATION.
5. FLOOR EXPANSION JOINT BELOW.
6. ROLLING STEEL DOOR JAMB. SEE DOOR SCHEDULE.
1. Masonry Wall.
2. Weld Plate.
3. Concrete Tees parallel to Wall.
1. MASONRY WALL.
2. WELD PLATE.
3. METAL DECK, FLUTES PERPENDICULAR TO WALL.
4. FIRE SAFING MATERIAL.
5. CONCRETE FLOOR SLAB.
1. SOLID GROUTED CMU.
2. "BALCO" 6000 SERIES EXPANSION JOINT TYPE 6TW-1.
3. PRE-MANUFACTURED COMPRESSIBLE EXPANSION JOINT FILLER.
4. FILL EXPANSION JOINT VOID W/ BATT INSULATION.
5. FLOOR EXPANSION JOINT BELOW.
1. SEALANT.
2. HOLLOW METAL FRAME.
3. 26 GAUGE GALVANIZED SHEET
   METAL COUNTERFLASHING.
4. MODIFIED BITUMEN
   REINFORCED COMPOSITE
   SHEET ROOFING.
5. 4” CANT STRIP.
6. PLYWOOD ROOF DECK.
7. 2 X 4 FIRE RETARDANT
   WOOD LEDGER, CONTINUOUS.

FLASHING AT WINDOW

SCALE: 1 1/2” = 1’-0”

04B-1010
1. PREFORMED METAL ROOF SYSTEM.
2. WOOD BLOCKING.
3. WOOD RIM JOISTS.
4. PLYWOOD SHEATHING.
5. UNFACED THERMAL BATT INSULATION.
6. 2x WOOD NAILED.
7. LAYER; 5/8" TYPE 'X' GYPSUM BOARD AT BOTTOM OF JOISTS.
8. 5/8" TYPE 'X' GYPSUM BOARD.
9. METAL DRIP EDGE - SIMILAR ON ALL SIDES.
1. Masonry wall.
2. Metal roofing.
3. Metal deck.
4. Rigid insulation.
5. 24 GA. Drip edge.
1. CEMENT PLASTER.
2. 'J' MOLDING.
3. REGLET.
4. COUNTERFLASHING.
5. METAL FLASHING.
6. METAL DECK.
7. STRUCTURAL ANGLE.
8. NEOPRENE AND METAL CLOSER.
9. MASONRY WALL.
10. EXPANSION ANCHOR.

METAL DECK ROOF EDGE
SCALE: 1 1/2" = 1'-0"
04B-1013
1. Asphalt shingles with waterproof underlayment per manufacturer’s specifications.
2. Masonry wall.
4. Sealant.
5. 1x6 Trim.
6. 2 x 10 wood fascia.

ROOF OVERHANG

3” = 1’-0”
1. CERAMIC TILE.
2. SEALANT.
3. 5/8" MOISTURE-RESISTANT GYPSUM BOARD.
4. METAL STUD. DO NOT ATTACH TO MASONRY WALL.
5. MASONRY WALL.
6. EXPANSION JOINT SPACE.
7. 5/8" TYPE 'X' GYPSUM BOARD.
8. METAL STUDS.
9. FIRE SAFING MATERIAL.

1 HOUR EXPANSION JOINT

SCALE: 3" = 1'-0"

04B-1015
1. Masonry wall.
2. Sealant, 7/8” min. depth.
4. 1-1/2” min. ceramic fiber blanket insulation.
5. 5/8” gypsum board. Wrap around end stud.
6. 3-5/8” metal stud.
7. 3-5/8” metal stud. Secure to masonry.
8. Casing bead.
9. Do not secure walls together at corner.
10. 4” wide x 1/4” thick steel plate closure. Secured to masonry at one side only with 1/4” flat head expansion screws in countersink holes at 24” o.c. Plate continuous from top of base to ceiling.
11. Expansion joint.
12. 1 hour rated construction per UL design no. U465.
1. Masonry wall.
2. Sealant, 7/8" min. depth.
4. Ceramic fiber blanket insulation.
5. Plaster slip joint.
6. Cement plaster.
7. 5/8" x 5/8" gypsum board.
8. 3-5/8" metal studs. Secure to masonry.
10. Do not secure furred walls together at corner.
11. Plaster corner bead.

2 & 4 HOUR EXP. JOINT
SCALE: 3" = 1'-0"
04B-1017
1. Masonry Wall.
2. Expansion Joint Material.
3. Fully Grouted Cell Both Sides of Joint.
4. Sealant.
5. Backer Rod.
6. Wall Finish As Scheduled.
7. Metal Studs.
8. Batt Insulation.
9. Gypsum Board Control Joint.
1. FIRE STOPPING SEALANT, 'TREMCO' DYMERIC, POLYTREMDYNE TERPOLYMER.
2. JOINT FILLER - POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
3. 'CERABLANKET-FS' - CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
4. CMU WALL.
5. METAL CONTROL JOINT.
6. METAL STUDS.
7. R-11 BATT INSULATION.
8. 5/8" GYPSUM BOARD.

1 & 2 HOUR CONTROL JOINT

3" = 1'-0"

04B-1019
1. Masonry.
2. Compressible joint material.
3. Fully grouted cell both sides of joint.
4. Sealant.
5. Backer rod.
6. Wall finish as scheduled.
7. Metal studs.
8. Batt insulation.
1. MASONRY WALL.
2. SEALANT, 7/8" MIN. DEPTH.
3. BACKER ROD.
4. CERAMIC FIBER BLANKET INSULATION: 1-1/2" AT 1 HOUR WALL, 4-1/2" AT 4 HOUR RATED WALL.
5. 5/8' TYPE 'X' GYPSUM BOARD WHERE OCCURS.
6. 3-5/8" METAL STUDS, WHERE OCCURS.
7. 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURE AT EXTERIOR WITH 1/4" FLAT HEAD EXPANSION ANCHORS IN COUNTERSUNK HOLES AT 24" O.C. SECURE AT INTERIOR WITH #12 SHEET METAL SCREWS AT 6" O.C. IN COUNTERSUNK HOLES. SECURE AT ONE SIDE OF EXPANSION JOINT ONLY.
8. WALL INSULATION BATTs, WHERE OCCURS.
9. STEEL CLOSURE LOCATION AT INTERIOR MASONRY CONDITION.

2 & 4 HOUR EXPANSION JOINT

3" = 1'-0"

04B-1021
1. MASONRY WALL.
2. 3-5/8” X 18 GAUGE METAL STUDS AT 16” O.C.
3. 5/8” TYPE ‘X’ GYPSUM BOARD.
4. 1 HOUR WALL SYSTEM.
   UL DESIGN NO. U465, WHERE OCCURS.
5. ACOUSTICAL CEILING.
6. 6” METAL STUDS AT 16” O.C.
   UL DESIGN NO. U465.
7. HOLLOW METAL FRAME.
8. FULL SOUND DEADENING INSULATION.
9. (2) LAYERS OF 1/2” TYPE ‘X’ GYPSUM BOARD.
10. EDGE OF WALL BEYOND.
11. 1/2” REVEAL.
12. 1 HOUR CEILING SIMILAR TO UL DESIGN NO. L524.
1. Masonry Wall.
2. 3-5/8" x 18 gauge metal studs at 16" O.C.
3. 5/8" Type 'X' gypsum board.
4. 1 hour wall system.
   UL Design No. U465, where occurs.
5. Acoustical ceiling.
6. 6" metal studs at 16" O.C.
   UL Design No. U465.
7. Hollow metal frame.
8. Full sound deadening insulation.
9. (2) Layers of 1/2" Type 'X' gypsum board.
10. Edge of wall beyond.
11. 1/2" reveal.
12. 1 hour ceiling similar to UL Design No. L524.

Door Alcove Section
Scale: 1" = 1'-0"
04B-1022
1. FINISH GRADE.
2. EXTERIOR FINISH SYSTEM.
3. 8" MASONRY WALL.
4. 2 X 8 BEVELED SILL BLOCK PAINTED TO MATCH ALUMINUM FRAME.
5. PLASTIC LAM. SILL.
6. 12" BLOCK.
7. CERAMIC TILE OVER THINSET TO 48" A.F.F.
8. 1/2" FILLED EXPANSION CAULK AROUND ENTIRE PERIMETER.
9. FINISH FLOOR (SEE SCHEDULE).
10. 4" CONCRETE SLAB.
11. 12" C.M.U. STEM.
12. 1-1/2" CELLULAR GLASS INSULATION.
13. CAULK AROUND WINDOW FRAME SEALANT COLOR TO MATCH ALUMINUM FRAME.

WINDOW SILL
SCALE: 1" = 1'-0"
04B-1023
1. PAINTED 5/8" CEMENT PLASTER.
2. PLASTER 'J' MOLD (TYPICAL).
3. 8" MASONRY WALL: PAINT EXPOSED MASONRY.
1. CONTROL JOINT.
2. 7/8" CEMENT PLASTER.
3. CASING BEAD.
4. MASONRY WALL.

PLASTER FINISH
SCALE: 3” = 1’-0”
04B-1025
1. MASONRY WALL.
2. 3/4" CEMENT PLASTER.
3. JOIST.

PLASTER SOFFIT
SCALE: 3" = 1’-0’’
1. EXISTING ROOF STRUCTURE.
2. METAL LATH.
3. 2x NAILER.
4. 5/8" CEMENT PLASTER APPLIED DIRECTLY TO BLOCK.
5. LAY-IN CEILING PANEL.
6. 5/8" TYPE ‘X’ GYP. BOARD.
7. 3-5/8" METAL STUDS.
8. METAL CORNER BEAD.
9. R-11 BATT INSULATION.
10. MASONRY WALL.
1. MASONRY WALL.
2. STEEL SUPPORT: SEE STRUCTURAL.
3. CEILING WHERE APPLICABLE.
4. FURRED WALL WHERE APPLICABLE.

CEILING AT CMU WALL

SCALE: 3” = 1’-0”

04B-1028
1. MASONRY WALL.
2. 3/4" CEMENT PLASTER.
3. CEILING JOIST.
4. SUSPENDED ACOUSTICAL CEILING SYSTEM.
3/8" STUCCO ON METAL LATH ON 1" RIGID INSULATION

METAL WEEP SCREED

FINISHED GRADE

(1) #4 REBAR VERTICAL @ 32" O.C. GROUT SOLID FULL HGT OF WALL

(2) #4 REBAR CONTINUOUS

1/2" GYP. BD. OVER 2 X 4 FURRING @ 24" O.C. WITH R-11 INSULATION

8" CMU WALL WITH #4 REBAR @ 32" O.C. WITH 18" LAP

4" CONC. SLAB OVER ABC

8" CMU STEM WALL

CONTINUOUS FOOTING

BELOW UNDISTURBED SOIL

C.M.U. STEM & EXT. WALL

1" = 1'-0"

04B-1030
1. 8" Bond Beam with (2) #5 Rebars.
2. #5 Rebar at 48" O.C.
3. Solid Grout all Cells Below Grade.
4. Continuous Footing with (2) #4 Rebars Continuous.
5. 8 x 8 x 16 Concrete Block.
6. Finish Grade.
7. Concrete Slab over 4" ABC.
8. Waterproofing.

MASONRY PLANTER WALL

3/4" = 1'-0"

04B-1031
2 X 12 LEDGER WITH (2) 7/8" Ø ANCHOR BOLTS @ 16" O.C.

PREFAB WOOD TRUSS @ 16" O.C.

(2) #4 REBAR CONTINUOUS IN BOND BEAM

"SIMPSON" HUS JOIST HANGER

MASONRY WALL

(2) LAYERS 5/8" TYPE "X" GYPSUM BOARD

LEDGER @ CMU WALL

1 1/2" = 1' - 0"

04B-1032
1. 8 X 8 X 16 CMU BLOCK, SEE ARCHITECTURAL FOR FINISH.
2. #5 VERTICALS @ 32" O.C. (U.N.O.), Dowels to match and lap.
3. 1/2" EXPANSION JOINT.
4. CONCRETE SLAB OVER 4" ABC; 4" SLAB @ OFFICE, 5" SLAB @ WAREHOUSE.
5. (2) #5 REBARS, CONTINUOUS.
6. (3) #4 REBARS, CONTINUOUS.
7. FINISHED GRADE.
1. 8 X 8 X 16 CMU BLOCK, SEE ARCHITECTURAL FOR FINISH.
2. #5 VERTICALS @ 32" O.C. (U.N.O.), DOWELS TO MATCH AND LAP.
3. 1/2" EXPANSION JOINT.
4. CONCRETE SLAB OVER 4" ABC; 4" SLAB @ OFFICE, 5" SLAB @ WAREHOUSE.
5. (2) #5 REBARS, CONTINUOUS.
6. (3) #4 REBARS, CONTINUOUS.
7. FINISHED GRADE.
1. 8 X 8 X 16 CMU BLOCK, SEE ARCHITECTURAL FOR FINISH.
2. #5 VERTICALS @ 32" O.C. (U.N.O.), DOWELS TO MATCH AND LAP.
3. 1/2" EXPANSION JOINT.
4. CONCRETE SLAB OVER 4" ABC; 4" SLAB @ OFFICE, 5" SLAB @ WAREHOUSE.
5. (2) #5 REBARS, CONTINUOUS.
6. (2) #4 REBARS, CONTINUOUS.
7. FINISHED GRADE.
8. ALTERNATE BENDS.
1. 8 X 8 X 16 CMU BLOCK, SEE ARCHITECTURAL FOR FINISH.
2. #5 VERTICALS @ 32" O.C. (U.N.O.), DOWELS TO MATCH AND LAP.
3. 1/2" EXPANSION JOINT.
4. CONCRETE SLAB OVER 4" ABC; 4" SLAB @ OFFICE, 5" SLAB @ WAREHOUSE.
5. 2 #5 REBARS, CONTINUOUS.
6. 2 #4 REBARS, CONTINUOUS.
7. FINISHED GRADE.
8. ALTERNATE BENDS.
1. 3'-0" X 3'-0" X 12" THICK PAD
   WITH (2) #5 REBARS EACH WAY.
2. 8 X 8 X 16 CMU WITH (1) #5 REBAR AT EACH CORNER.
1. 8 X 8 X 16 CMU.
2. #5 VERTICALS AT 16" O.C. WITH BENT ENDS.
3. (1) #5 REBAR.
4. SOLID GROUT.
5. (2) #5 REBARS.
6. VERTICAL REINFORCEMENT HOOK AT BOTTOM.
7. LINTEL 'U' HOOK.

NOTE: SHORE ALL MASONRY LINTELS UNTIL REACHING THE DESIGN STRENGTH.
1. 8 X 8 X 16 CMU.
2. (2) #5 VERTICALS, FULL HEIGHT.
3. (3) #5 VERTICALS, FULL HEIGHT.
1. TOP OF WALL, WHERE APPLICABLE.
2. BOND BEAM REINFORCEMENT.
3. CONTINUE VERTICAL WALL REINFORCEMENT THROUGH BOND BEAM.
4. GROUTED BOND BEAM, MINIMUM DEPTH PER DETAILS AND GENERAL STRUCTURAL NOTES.
5. LAP TO BE MINIMUM 48 X REBAR DIAMETER.

STEPPED BOND BEAM

3/4” = 1’-0”
1. 8 X 8 X 16 CMU WALL.
2. CONTROL JOINT PER ARCHITECTURAL DRAWINGS.
3. (1) #5 REBAR EACH SIDE OF JOINT IN SOLID GROUTED CELLS, DOWELS TO MATCH VERTICAL WALL REINFORCEMENT.
4. WRAP REINFORCING WITH MASTIC FOR BOND BREAK.
5. (2) #5 REBARS AT BOND BEAM, DO NOT LAP WITHIN 8'-0" OF THE CONTROL JOINT.
1. 8 X 8 X 16 CMU.
2. (1) #5 CORNER REBAR IN FOOTING AND STEM WALL AT 48” O.C. ABOVE.
3. (3) #5 VERTICALS IN CORNER CELLS, GROUT SOLID, SIMILAR AT FOOTING.

NOTES:
A. USE (2) #5 REBARS AT BOND BEAM WITH A 2’-0” LAP, U.N.O.
B. TYPICAL UNLESS NOTED OTHERWISE, SEE FOUNDATION PLAN.
1. #6 REBAR, 30” LONG, WELD 6” TO THE WEB.
2. #5 VERTICALS @ 32” O.C.
3. 1/4” X 7 1/2” CONTINUOUS PLATE.
4. 1/2” X 7 1/2” X 12” LONG BEARING PLATE WITH (4) 3/4” Ø X 12” LONG ANCHOR BOLTS.
5. (4) #5 VERTICALS WITH #3 TIES @ 8” O.C.

NOTE: ON SL1, BEARING PLATE CAN BE OMITTED.
1. 5/8” PLYWOOD.
2. SIMPSON ‘HW’ TYPE HANGER.
3. SIMPSON PATM25 PURLIN ANCHOR WITH MINIMUM (13) 16d’s.
4. 4 X 12 DOUGLAS FIR #1 LEDGER WITH (6) 3/4” Ø ANCHOR BOLTS AT EACH PURLIN, SEE 25/S-5.
5. TRU-TRUSS TT444 46” OPEN WEB WOOD TRUSS, SEE SCHEDULE.
6. (2) #5 REBARS, CONTINUOUS, IN 1’-4” SOLID GROUTED SLOPED BOND BEAM.

WOOD PURLIN @ LEDGER

1” = 1’-0”

04B-1044
1. 8" CMU WALL.
2. 1'-4" SOLID GROUTED BOND BEAM.
3. GALVANIZED 1" X 16 GAUGE VENEER ANCHORS AT 16" O.C. EACH SIDE.
4. 7-1/2" X 1/4" CONTINUOUS PLATE.
5. W8 X 18 WIDE FLANGE BEAM, SEE SCHEDULE ON SHEET S-2.

NOTES:
A. WELD VERTICAL WALL REINFORCEMENT TO STEEL LINTELS.
B. SHORE LINTEL AT MIDSPAN UNTIL CMU REACHES FULL STRENGTH.
C. SEE ROOF FRAMING PLAN ON SHEET S-2 FOR LINTEL LOCATIONS.
1. (2) #5 REBARS, CONTINUOUS, IN 1'-4" SOLID GROUTED BOND BEAM.
2. 4 X 6 DOUGLAS FIR LEDGER WITH 3/4" @ ANCHOR BOLTS @ 4'-0" O.C., MAXIMUM.
3. SIMPSON HUS26 HANGER, OR EQUAL.
4. 2 X 6 DOUGLAS FIR SUB-PURLIN.
5. SIMPSON PATM25 PURLIN ANCHOR WITH MINIMUM (13) 16d'S.
6. 5/8" PLYWOOD.
7. 3" X 3" X 1/4" PLATE WASHER @ 48" O.C., MAXIMUM.
8. BOUNDARY NAFLING.
9. CMU WALL.
1. 8" CMU WALL.
2. 4" X 4" X 1/4" STEEL ANGLE BRACE
   AT 8'-0" O.C.
3. (1) 3/4" MACHINE BOLT.
4. 6" X 6" X 3/8" STEEL ANGLE WITH
   (2) 3/4" 'RED-HEADS' OR N.S.

SECTION

BRACE @ MASONRY WALL
1 1/2" = 1'-0"

04B-1047
1. 5/8" PLYWOOD.
2. SIMPSON GLB5A BEAM SEAT.
3. 5-1/8" X 12" GLU-LAM BEAM.
4. 8" CMU WALL.
5. 3/4" DRY PACK.
6. FIRECUT.
7. BOND BEAM.

BEAM BEARING @ MASONRY WALL
1" = 1'-0"
1. WIDE FLANGE BEAM – SEE STRUCTURAL.
2. BASE PLATE – SIZE TO 6" X FLANGE WIDTH + 3" (MINIMUM 8") X 1/2", UNLESS NOTED OTHERWISE.
3. 1" (MINIMUM) NON-SHRINK GROUT.
4. CENTER LINE OF WALL AND BASE PLATE.
5. MASONRY WALL.
6. FILL BLOCK SOLID WITH MORTAR AS SHOWN.

STEEL BEAM BEARING ON MASONRY WALL

3/4" = 1'-0"
1. WIDE FLANGE BEAM - SEE STRUCTURAL.
2. BASE PLATE - SIZE TO 6" X FLANGE WIDTH + 3" (MINIMUM 8") X 1/2", UNLESS NOTED OTHERWISE.
3. 1" (MINIMUM) NON-SHRINK GROUT.
4. CENTER LINE OF WALL AND BASE PLATE.
5. MASONRY WALL.
6. FILL BLOCK SOLID WITH MORTAR AS SHOWN.

STEEL BEAM BEARING ON MASONRY WALL

3/4" = 1'-0"

04B-1049
1. ALUMINUM BASE FLASHING WITH DRIP EDGE.
2. SEALANT NO. 2 OR 4.
3. STEEL GIRT - TYPICAL POSITION WHERE WINDOWS DO NOT EXIST.
4. 16 GAUGE GALVANIZED SHEET METAL CLOSURE, PAINT TO MATCH C.M.U. WAINSCOT.
5. FILL VOID WITH FIBERGLASS INSULATION.
6. 8" C.M.U. BLOCK CUT TO 4", GROUTED FULL.
7. 8" C.M.U. WAINSCOT.
8. FACTORY FINISHED INSULATED METAL WALL PANEL.
9. ALUMINUM SILL FLASHING WITH DRIP ANCHOR WITH CONTINUOUS HOLD DOWN CLIP AT DRIP EDGE.
10. TREATED WOOD BLOCKING ANCHORED TO 4" C.M.U. WITH 3/8" EXPANDING BOLTS AT 16" O.C. (TYPICAL).
11. 4" C.M.U. WAINSCOT.
12. R-11 BATT INSULATION.
1. Aluminum base flashing with drip edge.
2. Sealant No. 2 or 4.
3. Steel girt — typical position where windows do not exist.
4. 16 gauge galvanized sheet metal closure; paint to match C.M.U. wainscot.
5. Fill void with fiberglass insulation.
6. 8" C.M.U. block cut to 4", grouted full.
7. 8" C.M.U. wainscot.
8. Factory finished insulated metal wall panel.
9. Aluminum sill flashing with drip anchor with continuous hold down clip at drip edge.
11. 4" C.M.U. wainscot.
12. R-11 batt insulation.
1. 8 X 8 X 16 MASONRY.
2. W8 X 10 WDE FLANGE COLUMN.
3. 5" X 2" #4 REBAR COLUMN ANCHORS @ 32" O.C.
4. 3/8" STEEL COLUMN BASE PLATE.
5. #4 REBAR VERTICAL AT CORNERS.
6. SOLID GROUTED CELLS.
1. 8 X 8 X 16 MASONRY.
2. WB X 10 WIDE FLANGE COLUMN.
3. 5" X 2" #4 REBAR COLUMN ANCHORS @ 32" O.C.
4. 3/8" STEEL COLUMN BASE PLATE.
5. #4 REBAR VERTICAL AT CORNERS.
6. SOLID GROUTED CELLS.
1. 6" C.M.U. WALL
2. 1/2" GYPSUM BOARD ON 2 X 2 FURRING.
3. (2) 2 X STUDS WITH 0.0145" Ø DRIVE PINS AT 48" O.C.
4. #4 REBAR, VERTICAL, IN SOLID GROUT AT 48" O.C.
1. 6” C.M.U. WALL.
2. 1/2” GYPSUM BOARD ON 2 X 2 FURRING.
3. (2) 2 X STUDS WITH 0.0145” Ø DRIVE PINS AT 48” O.C.
4. #4 REBAR, VERTICAL, IN SOLID GROUT AT 48” O.C.
1. SCREW ATTACH GALVANIZED HAT CHANNEL TO LEDGER.
2. 1 1/2" GALVANIZED HAT CHANNELS SPACED FOR 50% SCREEN.
3. 3 X 6 LEDGER WITH 1/2" ANCHOR BOLTS AT 48" O.C., MAXIMUM - SET ENDS INTO GROUTED CELL.
4. 8" C.M.U. ENCLOSURE - SEE SITE PLAN FOR HEIGHT AND LOCATION.

C.M.U. POOL EQUIPMENT FENCE

1" = 1'-0"

04B-1053
1. SCREW ATTACH GALVANIZED HAT CHANNEL TO LEDGER.
2. 1 1/2" GALVANIZED HAT CHANNELS SPACED FOR 50% SCREEN.
3. 3 X 6 LEDGER WITH 1/2" ANCHOR BOLTS AT 48" O.C., MAXIMUM - SET ENDS INTO GROUTED CELL.
4. 8" C.M.U. ENCLOSURE – SEE SITE PLAN FOR HEIGHT AND LOCATION.
1. CMU WALL.
2. STUCCO ON CMU.
3. SHAPED RIGID FOAM.
4. STUCCO ON LATH.
5. SLOPE TO DRAIN, APPLY (3) COATS WATERSEAL.
6. PLYWOOD SHEATHING.
7. SHAPED 2 X NAILER.

1 1/2” = 1’-0”
1. CMU WALL.
2. STUCCO ON CMU.
3. SHAPED RIGID FOAM.
4. STUCCO ON LATH.
5. SLOPE TO DRAIN, APPLY (3) COATS WATERSEAL.
6. PLYWOOD SHEATHING.
7. SHAPED 2 X NAILER.
1. FOAM "POP-OUT" WITH CEMENT STUCCO FINISH OVER METAL LATH.
2. 1/2 ROUND MASONRY OPENING.
3. CEMENT STUCCO OVER MASONRY.
4. (1) #5 REBAR HORIZONTAL - FULL WIDTH OF WALL.
5. (1) #5 REBAR DIAGONALLY AT EACH SIDE OF OPENING.
6. (1) #5 REBAR VERTICALLY AT EACH SIDE OF OPENING.
7. (2) #5 REBAR HORIZONTAL ABOVE OPENING.

PEDIMENT REINFORCING

1/2" = 1'-0"
1. FOAM "POP-OUT" WITH CEMENT STUCCO FINISH OVER METAL LATH.
2. 1/2 ROUND MASONRY OPENING.
3. CEMENT STUCCO OVER MASONRY.
4. (1) #5 REBAR HORIZONTAL – FULL WIDTH OF WALL.
5. (1) #5 REBAR DIAGONALLY AT EACH SIDE OF OPENING.
6. (1) #5 REBAR VERTICALLY AT EACH SIDE OF OPENING.
7. (2) #5 REBAR HORIZONTAL ABOVE OPENING.

PEDIMENT REINFORCING

1/2" = 1'-0"
1. 1 1/2” THICK RIGID INSULATION.
2. CEMENT STUCCO FINISH OVER METAL LATH.
3. 1/2 ROUND MASONRY OPENING.
4. CEMENT STUCCO OVER MASONRY.
5. (1) #5 REBAR HORIZONTAL – FULL WIDTH OF WALL.
6. (1) #5 REBAR DIAGONALLY AT EACH SIDE OF OPENING.
7. (2) #5 REBAR HORIZONTAL ABOVE OPENING.
1. 1 1/2" THICK RIGID INSULATION.
2. CEMENT STUCCO FINISH OVER METAL LATH.
3. 1/2 ROUND MASONRY OPENING.
4. CEMENT STUCCO OVER MASONRY.
5. (1) #5 REBAR HORIZONTAL - FULL WIDTH OF WALL.
6. (1) #5 REBAR DIAGONALLY AT EACH SIDE OF OPENING.
7. (2) #5 REBAR HORIZONTAL ABOVE OPENING.
1. 4" MASONRY COLUMN CAP.
2. GLU-LAM BEAM.
3. BEAM SEAT WITH 3 1/4" WIDE THROAT.
4. MASONRY COLUMN.
5. HURRICANE TIE (TYPICAL).
6. PREFABRICATED WOOD TRUSSES AT 24" ON CENTER.

BEAM SEAT AT CMU COLUMN

1" = 1'-0"
Beam Seat at CMU Column

1. 4" Masonry Column Cap.
2. Glu-Lam Beam.
3. Beam Seat with 3 1/4" wide throat.
4. Masonry Column.
5. Hurricane Tie (Typical).
6. Prefabricated Wood Trusses at 24" on center.

1" = 1'-0"
1. 8” CMU WALL.
2. 2” x 8” TOP PLATE.
3. STUCCO SYSTEM.
4. 5/8” EXTERIOR GRADE GYPSUM BOARD CEILING.
5. 5/8” GYPSUM BOARD.
6. PREFABRICATED WOOD TRUSS.
7. HURRICANE TIE.

TRUSS AT CMU WALL

1 1/2” = 1’-0”

04B-1058
1. 8" CMU WALL.
2. 2" x 8" TOP PLATE.
3. STUCCO SYSTEM.
4. 5/8" EXTERIOR GRADE GYPSUM BOARD CEILING.
5. 5/8" GYPSUM BOARD.
6. PREFABRICATED WOOD TRUSS.
7. HURRICANE TIE.

TRUSS AT CMU WALL

1 1/2" = 1'-0"
1. 8" CMU.
2. (2) 5" x 3" x 1/4" ANGLES, INTEL WITH 4" BEARING AT EACH END.
3. CONTINUOUS BOND BEAM.
4. 3/8" OSB OR PLYWOOD.
5. 1" RIGID INSULATION.
6. PREFABRICATED WOOD TRUSS.
7. 3/4" STUCCO OVER METAL LATH.
8. WEEP SCREED STUCCO STOP.

TRUSS AT CMU OPENING
1 1/2” = 1’-0”

04B-1059
1. 8" CMU.
2. (2) 5" X 3" X 1/4" ANGLES UNTEL WITH 4" BEARING AT EACH END.
3. CONTINUOUS BOND BEAM.
4. 3/8" OSB OR PLYWOOD.
5. 1" RIGID INSULATION.
6. PREFABRICATED WOOD TRUSS.
7. 3/4" STUCCO OVER METAL LATH.
8. WEEP SCREED STUCCO STOP.

TRUSS AT CMU OPENING

1 1/2" = 1'-0"
1. EXPOSED FACE OF WALL SPLIT FACE BLOCK.
2. CONCRETE FOOTING - SEE STRUCTURAL.
3. TYPICAL GUARD RAIL.
4. FINISH GRADE.
5. SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.
1. RETAINING WALL.
2. CONCRETE FOOTING - SEE STRUCTURAL
3. GUARD RAIL.
4. FINISH GRADE.
5. WATERPROOFING.
6. SLOPE TOP OF WALL WHERE APPLICABLE.
   SAW CUT BLOCK AS REQUIRED.
7. EXPOSED FACE OF WALL - SPLIT FACE BLOCK.
1. RETAINING WALL - SEE STRUCTURAL.
2. CONCRETE FOOTING - SEE STRUCTURAL.
3. GUARD RAIL.
4. FINISH GRADE.
5. WATERPROOFING.
6. SOLID CAP BLOCK.
7. WEEP HOLE.
8. SLOPE TOP OF WALL WHERE APPLICABLE
   SAW CUT BLOCK AS REQUIRED.

RETAILING WALL
WITH OFFSET FOOTING

SCALE: 1/2” = 1’-0”
1. CONCRETE FOOTING—SEE STRUCTURAL.
2. EXPOSED FACE OF WALL SPLIT FACE BLOCK.
3. FINISH GRADE.
4. SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.
5. #5 REBAR AT 48” O.C.
6. #4 REBAR CONT.
6" CMU PLANTER WALL SEAL AND PAINT TO MATCH BUILDING COLOR

2" DRAINAGE PORT

CONCRETE DRIVE OR SIDEWALK

FINISH GRADE

1'-0"

1'-0"

1'-6" MIN.

AGGREGATE FOR DRAINAGE

GROUT TOP COURSE SOLID

C.M.U. PLANTER SECTION

3/4" = 1'-0"

04B-2005
MASONRY RETAINING WALL

8X8X16 CMU STEM WALL
GROUT CELLS SOLID @ 32" O.C.
GROUT TOP CELL FOR CONTINUOUS BOND BEAM

#4 REBAR @ 32" O.C.
ALTERNATE BENDS

(2) #5 CONTINUOUS

1 1/2" = 1'-0"

04B-2006
1. MORTAR CAP SLOPE TO DRAIN.
2. SINGLE SCORED C.M.U.
   SEE STRUCTURAL PLAN FOR
   REINFORCING.
3. #4 REBAR CONTINUOUS.
4. GROUT SOLID – TOP
   2 COURSES
1. "Fry" type reglet
2. Fiber cant strip.
3. Class "A" built up roofing.
4. Plywood sheathing.
1. MASONRY WALL.
2. REGLET & COUNTER FLASHING.
3. 12 GA. GI CONT. FLASHING.
4. 4" CANT STRIP.
5. MEMBRANE ROOFING OVER
   LIGHTWEIGHT FILL OVER
   1 1/2" METAL DECKING.

scale: 3" = 1'-0"
1. Modified bitumen reinforced composite sheet roofing.
2. Expansion joint cover, coat all neoprene material with white elastomeric coating after installation.
3. 4" cant strip.
4. 2 x 8 fire retardant treated wood curb.
5. Structural nailer.
7. Plywood roof deck.
8. Flashing system by roofing manufacturer.
10. Reglet and counterflushing.
1. Structural Slip Joint.
2. Masonry Wall.
3. Plywood Deck.
4. Continuous Nailer.
5. Metal Roofing System.
6. Metal Flashing by Metal Roofing Manufacturer.
7. Reglet and Counter Flashing Surface Attached Under Stucco.
9. Casing Bead Parallel to Plane of Roof.
10. 40 Mil Elastomeric Membrane.

**Expansion Joint**

SCALE: 3” = 1’-0”

04B-3005
1. PRE-MANUFACTURED COMPRESSIBLE EXP. JOINT FILLER.
2. TOP OF PARAPET WALL.
3. FLASHING.

EXPOSED JOINT

SCALE: 3” = 1’-0”

04B-3006
1. 24 GA G.I. PARAPET CAP.
2. 24 GA G.I. EXP. JOINT PLATE
   UNDER CAP-SCREW ATTACH TO
   WOOD NAILED.
3. INSTALL 2 ROWS SEALANT UNDER EACH
   SIDE LAP AND AT 1/4" JOINT.
4. PREFABRICATED CORNERS W/ ALL
   JOINTS SOLDERED.

CAP FLASHING
SCALE: 3” = 1’-0”

04B-3007
1. MASONRY WALL.
2. TAPERED WOOD NAILER W/ 1/2" Ø X 8" A.B.'s @ 48" O.C. COUNTERSUNK.
3. 24 GA G.I. CAP FLASHING.
4. 12 GA X 2" WIDE CONCEALED CLIPS @ 24" O.C.-SCREW ATTACH TO NAILER W/ #8 X 1" COATED SCREWS.
5. 24 GA G.I. HEMMED FLASHING SCREW ATTACH W/ #8 X 1" COATED SCREWS @ 24" O.C.
6. #8 X 1 1/2" COATED SCREWS @ 24" O.C.

PARAPET CAP
SCALE: 3” = 1’-0”
04B-3008
1. MASONRY WALL.
2. TREATED WOOD NAILER W/ 1/2" X 8" ANCHOR BOLTS @ 48" O.C. COUNTERSUNK.
3. PREFABRICATED METAL COPING.
4. 12 GA X 2" WIDE CONCEALED CLIPS @ 24" O.C.-SCREW ATTACH TO NAILER W/ #8 X 1" COATED SCREWS.
5. 24 GA. METAL HEMMED FLASHING. SCREW ATTACH W/ #8 X 1" COATED SCREWS @ 24" O.C.
6. #8 X 1 1/2" COATED SCREWS @ 24" O.C.
7. ELASTOMERIC COATING ON BACK OF PARAPET WALL OR COMPOSITE SHEET ROOFING WHERE OCCURS.

METAL COPING
SCALE: 1" = 1’-0”

04B-3009
1. Run elastomeric coating over top of wall.
2. 24 ga. G.I. cap flashing.
3. CMU wall.

Parapet Cap
Scale: 3” = 1’-0”

04B-3010
1. MASONRY WALL.
2. ELASTOMERIC COATING.
3. 22 GA. G.I. COPING.
4. SEALANT CONTINUOUS.
5. 5/8" CEMENT PLASTER.
1. ROOF DRAIN WITH DOUBLE DECK CLAMP.
2. OVERFLOW DRAIN WITH DOUBLE DECK CLAMP AND 2" HIGH STANDPIPE.
3. LEAD FLASHING 24" SQUARE.
4. MODIFIED BITUMEN REINFORCED SHEET ROOFING ON RIGID INSULATION.
5. RIGID INSULATION CRICKETS WHERE REQUIRED, SEE ROOF PLAN, MIN 1/4"/LF AT CRICKET VALLEY.
6. METAL DECK.
7. ROOF DRAIN PIPE.
8. STEEL ANGLE LEDGER.
9. 4" CANT STRIP.
10. FACE OF MASONRY WALL.

ROOF & OVERFLOW DRAIN

SCALE: 1 1/2" = 1'-0"
1. ROOF DRAIN WITH DOUBLE DECK CLAMP.
2. 20 GA. OVERFLOW SCUPPER AT PARAPET WALL, 2" MAX. ABOVE ROOF DRAIN INVERT.
3. LEAD FLASHING 24" SQUARE.
4. MODIFIED BITUMEN REINFORCED SHEET ROOFING ON RIGID INSULATION.
5. RIGID INSULATION CRICKETS WHERE REQUIRED, SEE ROOF PLAN, MIN. 1/4" / LF AT CRICKET VALLEY.
6. METAL DECK.
7. ROOF DRAIN PIPE.
8. STEEL ANGLE LEDGER.
9. 4" CANT.
10. FACE OF CONCRETE WALL.
11. SEALANT.
1. WALL (PRIME MASONRY SURFACES).
2. METAL CLAD MODIFIED BITUMEN FLASHING (TORCH & FASTEN 9” O.C.).
3. MODIFIED BITUMEN CAP SHEET (PREPARE GRANULAR SURFACE).
4. MODIFIED BITUMEN REINFORCING SHEET.
5. MODIFIED BITUMEN BASE PLY.
6. METAL FLASHING/COUNTERFLASHING ASSEMBLY.
7. PLYWOOD ROOF SHEATHING.
8. METAL DECK.
1. WALL (PRIME MASONRY SURFACES).
2. METAL CLAD MODIFIED BITUMEN FLASHING (TORCH & FASTEN 9" O.C.).
3. MODIFIED BITUMEN CAP SHEET (PREPARE GRANULAR SURFACES).
4. MODIFIED BITUMEN REINFORCING SHEET.
5. MODIFIED BITUMEN BASE PLY.
6. METAL FLASHING/COUNTERFLASHING ASSEMBLY.

REGLET AT CMU WALL

SCALE: 3" = 1'-0"

04B-3015
1. BUILT-IN TYPE MA FRY REGLET & SPRINGLOCK COUNTERFLASHING.
2. SEALANT.
3. MASONRY WALL.
4. 4" CANT STRIP.
5. ROOF MEMBRANE OVER LIGHTWEIGHT FILL.
1. BUILT-IN TYPE MA FRY REGLET IN MORTAR JOINT & SPRINGLOCK COUNTERFLASHING.
2. SEALANT.
3. MASONRY WALL.
4. 4" CANT STRIP.
5. MODIFIED BITUMEN REINFORCED COMPOSITE SHEET ROOFING.
6. STEP FLASHING DOWN WITH SLOPE OF ROOF. PROVIDE TERMINATION BARS AT VERTICAL EDGES OF ROOFING MEMBRANE.
7. MORTAR JOINT.

FLASHING AT CANT
SCALE: 3" = 1'-0"
04B-3017
1. 8" C.M.U PARAPET WITH ELASTOMERIC COATING.
2. G. I. REGLET & COUNTER FLASHING.
3. 22 GA. G. I. SHEET METAL FLASHING WITH CONTINUOUS HEM.
4. 4" FIBER CANT.
5. WOOD LEDGER.
6. ASPHALT SHINGLES.
7. 3/4" PLYWOOD CRICKET ON 2 X WOOD SUPPORTS AT 48" O.C.
8. PLYWOOD ROOF DECK.
1. MASONRY WALL.
2. REGLET FLASHING
   SAW CUT MASONRY PARALLEL TO ROOF.
3. 5/8" GYP. BOARD OVER
   PLYWOOD SHEATHING.
4. METAL FRAMING.
5. STANDING SEAM METAL ROOFING.
6. LEAD SHIM.
7. SEALANT.

REGLET AT METAL ROOF

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

04B-3019
1. MASONRY WALL.
2. REGLET & COUNTER FLASHING.
3. 12 GA. GI CONT. FLASHING.
4. METAL ROOFING.
5. 3/4" GYP. BOARD.
6. 5/8" FIRE TREATED PLYWOOD DECK.
7. 3/4" PLASTER.
8. 6" X 18 GA. STEEL JOISTS AT 12" O.C. W/ 18 GA. STEEL TRACK AT EACH END.
9. 6" X 2" X 3/16" STEEL TUBE.
10. CONT. 9" X 1/4" STEEL PLATE EMBED.

METAL ROOF FLASHING

SCALE: 1" = 1'-0"

04B-3020
1. MASONRY WALL.
2. PARAPET CAP.
3. RIGID INSULATION OVER METAL DECK.
4. STEEL ANGLE LEDGER.
5. METAL ROOFING.

METAL ROOF AT PARAPET

1 1/2” = 1’-0”

04B-3021
1. MASONRY WALL.
2. REGLET AND COUNTER FLASHING.
3. RIGID INSULATION OVER METAL DECK.
4. STEEL ANGLE LEDGER.
5. STANDING SEAM METAL ROOF.
1. MASONRY WALL.
2. REGLET & COUNTER FLASHING.
3. 12 GA. GI CONT. FLASHING.
4. RIGID INSULATION.
5. METAL DECK.
6. CONT. STEEL BENT PLATE BOLTED TO WALL.
7. METAL ROOFING.
1. LEDGER.
2. MASONRY WALL.
3. PLYWOOD DECK.
4. 1-1/2” DEEP X 3/8” WIDE SAWCUT, CONTINUOUS PARALLEL TO PLANE OF ROOF.
5. METAL ROOFING SYSTEM.
6. METAL FLASHING BY METAL ROOFING MANUFACTURER.
7. REGLET AND COUNTERFLASHING.
8. 40 MIL ELASTOMERIC MEMBRANE.
1. BUILT-IN TYPE REGLET, SPRINGLOCK, AND 25 GAUGE COUNTERFLASHING WITH PAINTED FINISH.
2. MASONRY WALL.
3. PARAPET OF ADJACENT STRUCTURE.

FLASHING AT C.M.U. WALL

3” = 1’-0”
1. BUILT-IN TYPE REGLET, SPRINGLOCK, AND 25 GAUGE COUNTERFLASHING WITH PAINTED FINISH.
2. MASONRY WALL.
3. PARAPET OF ADJACENT STRUCTURE.
1. 8” MASONRY WALL.
2. 1 1/2” THICK RIGID INSULATION.
3. CEMENT STUCCO OVER METAL LATH.
4. (2) #5 REBAR HORIZONTAL CONTINUOUS.
5. #5 VERTICAL SEE STRUCTURAL.
6. PREFABRICATED FASCIA.
7. PREFABRICATED DENTIL MOLDING.
8. METAL WEEP SCREED / STUCCO STOP.

3/4” = 1'-0"
1. 8" MASONRY WALL.
2. 1 1/2" THICK RIGID INSULATION.
3. CEMENT STUCCO OVER METAL LATH.
4. (2) #5 REBAR HORIZONTAL CONTINUOUS.
5. #5 VERTICAL SEE STRUCTURAL.
6. PREFABRICATED FASCIA.
7. PREFABRICATED DENTIL MOLDING.
8. METAL WEEP SCREED / STUCCO STOP.
1. 1/2" EXTERIOR GRADE PLYWOOD.
2. 4" X 18 GAUGE METAL STUDS @ 24" O.C.
3. (3) SHEET METAL SCREWS AT 1 1/2" LONG - TYPICAL.
4. 3" X 3" X 1/4" CONTINUOUS ANGLE WITH 3/4" N.S. @ 24" O.C.
5. (2) #5 REBAR CONTINUOUS.
6. STEEL PLATE JOIST SEAT IN WALL POCKET - SEE STRUCTURAL.
7. 4" X 13 GAUGE METAL STUD RAIL BLOCK.
8. 8" CMU WALL.
9. 1/2" CLEAR.
10. 4" X 18 GAGE CONTINUOUS BOTTOM TRACK - DO NOT ATTACH TO ROOF DECK.
11. 1" RIGID INSULATION.
12. TAPERED RIGID INSULATION.
13. CEMENT STUCCO OVER METAL LATH.
14. COPPER FOILED ASPHALT COMPOSITION SHINGLES OVER 30 lb. ROOFING FELT.
15. COPPER FLASHING.
16. SINGLY PLY MEMBRANE ROOFING.

PARAPET WALL

3/4" = 1'-0"

04B-3027
1. 1/2” EXTERIOR GRADE PLYWOOD.
2. 4” X 18 GAUGE METAL STUDS @ 24” O.C.
3. (3) SHEET METAL SCREWS AT 1 1/2” LONG - TYPICAL.
4. 3” X 3” X 1/4” CONTINUOUS ANGLE WITH 3/4” N.S. @ 24” O.C.
5. (2) #5 REBAR CONTINUOUS.
6. STEEL PLATE JOIST SEAT IN WALL POCKET – SEE STRUCTURAL.
7. 4” X 13 GAUGE METAL STUD RAIL BLOCK.
8. 8” CMU WALL.
9. 1/2” CLEAR.
10. 4” X 18 GAUGE CONTINUOUS BOTTOM TRACK – DO NOT ATTACH TO ROOF DECK.
11. 1” RIGID INSULATION.
12. TAPERED RIGID INSULATION.
13. CEMENT STUCCO OVER METAL LATH.
14. COPPER FOILED ASPHALT COMPOSITION SHINGLES OVER 30 lb. ROOFING FELT.
15. COPPER FLASHING.
16. SINGLY PLY MEMBRANE ROOFING.

Parapet Wall
3/4” = 1’-0”
1. 8 X 8 X 16 MASONRY PARAPET WALL.
2. PRECAST PARAPET CAP.
3. BOND BEAM.
4. #4 REBAR CONTINUOUS.
1. 8 X 8 X 16 MASONRY PARAPET WALL.
2. PRECAST PARAPET CAP.
3. BOND BEAM.
4. #4 REBAR CONTINUOUS.
1. 20 GAUGE GALVANIZED IRON FLASHING SET IN MASONRY MORTAR JOINT.
2. 20 GAUGE COUNTERFLASHING.
3. CANT STRIP.
4. ROOF DECK.
5. LEDGER.
6. MASONRY WALL.
1. 20 GAUGE GALVANIZED IRON FLASHING SET IN MASONRY MORTAR JOINT.
2. 20 GAUGE COUNTER-FLASHING.
3. CANT STRIP.
4. ROOF DECK.
5. LEDGER.
6. MASONRY WALL.
1. 24 GAUGE GALVANIZED IRON CAP FLASHING WITH DRIP EDGE.
2. STUCCO ON MASONRY.
3. 8X8X16 MASONRY WALL.
4. ANCHOR BOLT AT 72" O.C.
5. CONTINUOUS SILICONE SEALANT.
6. SHAPED RIGID FOAM "POP-OUT".
7. SCREW WITH REINFORCED NEOPRENE WASHER AT 2'-0" O.C., CAULK SCREW HEADS (TYPICAL).
8. 8X10X16 CMU COURSE.
9. 8X12X16 CMU COURSE.
10. 8X8X16 CMU COURSE.
11. SLOPED WOOD CAP.

NOTE: PROVIDE ROOFING FELT UNDERLAYMENT 3" OVERLAP AT SEAMS (UNDER FLASHING).
1. 24 GAUGE GALVANIZED IRON CAP FLASHING WITH DRIP EDGE.
2. STUCCO ON MASONRY.
3. 8X8X16 MASONRY WALL.
4. ANCHOR BOLT AT 72” O.C.
5. CONTINUOUS SILICONE SEALANT.
6. SHAPED RIGID FOAM "POP-OUT".
7. SCREW WITH REINFORCED NEOPRENE WASHER AT 2’-0” O.C., CAULK SCREW HEADS (TYPICAL).
8. 8X10X16 CMU COURSE.
9. 8X12X16 CMU COURSE.
10. 8X8X16 CMU COURSE.
11. SLOPED WOOD CAP.

NOTE: PROVIDE ROOFING FELT UNDERLAYMENT 3” OVERLAP AT SEAMS (UNDER FLASHING).
1. CMU WALL.
2. SCUPPER OPENING.
3. 22 GAUGE GALVANIZED IRON DOWNSPOUT.
4. LEADER BOX.
5. GALVANIZED METAL FLASHING ALL AROUND.
6. PLYWOOD ROOF DECK.
7. 22 GAUGE GALVANIZED IRON SCUPPER FLASHING.
8. OVERFLOW BEYOND.
9. LEDGER.
1. CMU WALL.
2. SCUPPER OPENING.
3. 22 GAUGE GALVANIZED IRON DOWNSPOUT.
4. LEADER BOX.
5. GALVANIZED METAL FLASHING ALL AROUND.
6. PLYWOOD ROOF DECK.
7. 22 GAUGE GALVANIZED IRON SCUPPER FLASHING.
8. OVERFLOW BEYOND.
9. LEDGER.
1. FOUNDERS BLOCK MASONRY.
2. RIGID FOAM POP-OUT.
3. METAL STUD & FOAM POP OUT.
4. RIGID FOAM BRACKET.
5. 8" X 16 GAUGE METAL STUDS AT 24" O.C.
6. 5/8" φ X 6" WEDGE ANCHOR AT 32" O.C.
7. 1/2" GYPSUM SHEATHING.
8. 2 X 8" CONTINUOUS TOP PLATE.
9. 3 5/8" X 18 GAUGE METAL STUDS AT 24" O.C.

NOTE: CEMENT STUCCO OVER METAL LATH TO COVER ALL RIGID FOAM POP OUTS NOT SHOWN FOR CLARITY

PARAPET CAP

1/2" = 1'-0"

04B-3032
1. FOUNDERS BLOCK MASONRY.
2. RIGID FOAM POP-OUT.
3. METAL STUD & FOAM POP OUT.
4. RIGID FOAM BRACKET.
5. 8” X 16 GAUGE METAL STUDS AT 24” O.C.
6. 5/8” φ X 6” WEDGE ANCHOR AT 32” O.C.

7. 1/2” GYPSUM SHEATHING.
8. 2 X 8 CONTINUOUS TOP PLATE.
9. 3 5/8” X 18 GAUGE METAL STUDS AT 24” O.C.

NOTE: CEMENT STUCCO OVER METAL LATH TO COVER ALL RIGID FOAM POP OUTS NOT SHOWN FOR CLARITY

PARAPET CAP
1/2” = 1’-0”

04B-3032
1. CMU SEALED AND PAINTED ON ONE SIDE ONLY.
2. EXPANSION JOINT MATERIAL.
3. STUCCO FINISH.
4. EXPANSION JOINT.
1. SUSPENDED ACOUSTIC TILE CEILING SYSTEM.
2. P.V.C. EXPANSION FILLER.
3. CMU WALL.

CONTROL JOINT AT CLG.
SCALE: 3” = 1’-0” 04B-4002
1. SOLID GROUTED CMU.
2. "BALCO" 6000 SERIES EXPANSION JOINT TYPE 6TWC-1.
3. PRE-MANUFACTURED COMPRESSIBLE EXPANSION JOINT FILLER.
4. FILL EXPANSION JOINT VOID W/ BATT INSULATION.
5. FLOOR EXPANSION JOINT BELOW.
6. ROLLING STEEL DOOR JAMB. SEE DOOR SCHEDULE.

EXP. JOINT @ CMU WALL
SCALE: 1” = 1’-0”

04B-4003
1. SEALANT.
2. JOINT FILLER.
3. PREMOLDED CONTROL JOINT.
4. MASONRY WALL.
5. METAL STUDS.
6. R-11 BATT INSULATION.
7. 1/4” CERAMIC TILE ON 1” CEMENT MORTAR SETTING BED ON METAL LATH.

EXPANSION JOINT @ FURRED C.M.U. WALL

3” = 1’-0”

04B-4004

Samples from www.AutoCADDetails.net
1. MASONRY.
2. COMPRESSIBLE JOINT MATERIAL. BOTH SIDES OF JOINT.
3. SEALANT.
4. BACKER ROD.
5. PREMOLDED NEOprene GASKET.

MASONRY CONTROL JOINT

SCALE: 3" = 1'-0"

04B-4005
1. SOLID GROUTED CMU.
2. "BALCO" 6000 SERIES EXPANSION JOINT TYPE 6TW-1.
3. PRE-MANUFACTURED COMPRESSIBLE EXPANSION JOINT FILLER.
4. FILL EXPANSION JOINT VOID W/ BATT INSULATION.
5. FLOOR EXPANSION JOINT BELOW.
1. MASONRY WALL.
2. EPOXY JOINT MATERIAL.
3. FULLY GROUTED CELL
   BOTH SIDES OF JOINT.
4. SEALANT.
5. BACKER ROD.
6. WALL FINISH AS
   SCHEDULED.

CMU EXPANSION JOINT
SCALE: 3″ = 1′-0″
04B-4007
1. MASONRY WALL.
2. SEALANT, 7/8" MIN. DEPTH.
3. BACKER ROD.
4. CERAMIC FIBER BLANKET INSULATION: 1-1/2" AT 1 HOUR WALL,
   4-1/2" AT 4 HOUR RATED WALL.
5. 5/8' TYPE 'X' GYPSUM BOARD WHERE OCCURS.
6. 3-5/8" METAL STUDS, WHERE OCCURS.
7. 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURE AT EXTERIOR WITH
   1/4" FLAT HEAD EXPANSION ANCHORS IN COUNTERSUNK HOLES AT 24" O.C.
   SECURE AT INTERIOR WITH #12 SHEET METAL SCREWS AT 6" O.C. IN COUNTER-
   SUNK HOLES. SECURE AT ONE SIDE OF EXPANSION JOINT ONLY.
8. WALL INSULATION BATTS, WHERE OCCURS.
9. STEEL CLOSURE LOCATION AT INTERIOR MASONRY CONDITION.

2 & 4 HOUR EXPANSION JOINT

3" = 1'-0"

04B-4008
1. Masonry wall.
2. Sealant, 7/8" min. depth.
4. 1-1/2" min. ceramic fiber blanket insulation.
5. 3-5/8" metal studs secure to masonry.
6. 5/8" gypsum board.
7. Casing bead.
8. Do not secure furred walls together at corner.
9. 4" wide x 1/4" thick steel plate closure. Secured at one side only with 1/4" flat head expansion screws in countersunk holes at 24" o.c. Plate continuous from top of base to ceiling.

1 Hour Expansion Joint

Scale: 3" = 1'-0"

04B-4009
1. Masonry Wall.
2. Sealant, 7/8” min. depth.
4. 1-1/2” min. ceramic fiber blanket insulation.
5. 5/8” gypsum board. Wrap around end stud.
6. 3-5/8” metal stud.
7. 3-5/8” metal stud. Secure to masonry.
8. Casing bead.
9. Do not secure walls together at corner.
10. 4” wide x 1/4” thick steel plate closure. Secured to masonry at one side only with 1/4” flat head expansion screws in countersink holes at 24” o.c. Plate continuous from top of base to ceiling.
11. Expansion joint.
12. 1 hour rated construction per UL design no. U465.

1 Hour Expansion Joint

3" = 1’-0"

04B-4010
1. MASONRY WALL.
2. SEALANT, 7/8" MIN. DEPTH.
3. BACKER ROD.
4. CERAMIC FIBER BLANKET INSULATION.
5. PLASTER SUP JOINT.
6. CEMENT PLASTER.
7. 5/8" "X" GYPSUM BOARD.
8. 3-5/8" METAL STUDS. SECURE TO MASONRY.
9. CASING BEAD.
10. DO NOT SECURE FURRED WALLS TOGETHER AT CORNER.
11. PLASTER CORNER BEAD.

2 & 4 HOUR EXP. JOINT

3" = 1'-0"
1. Masonry Wall.
2. Expansion Joint Material.
3. Fully Grouted Cell Both Sides of Joint.
4. Sealant.
5. Backer Rod.
6. Wall Finish as Scheduled.
7. Metal Studs.
8. Batt Insulation.
9. Gypsum Board Control Joint.
1. FIRE STOPPING SEALANT, ‘TREMCO’ DYMETRIC, POLYTRENDYNE TERPOLYMER.
2. JOINT FILLER — POLYETHYLENE CLOSED-CELL FOAM, BY ‘DOW CHEMICAL’.
3. ‘CERABLANKET-FS’ — CERAMIC FIBER BLANKET INSULATION, BY ‘JOHNS-MANVILLE’.
4. CMU WALL.
5. METAL CONTROL JOINT.
6. METAL STUDS.
7. R-11 BATT INSULATION.
8. 5/8” GYPSUM BOARD.
1. 8 x 8 x 16 CMU WALL.
2. CONTROL JOINT PER
ARCHITECTURAL DRAWINGS.
3. (1) #5 REBAR EACH SIDE OF
JOINT IN SOLID GROUTED CELLS,
DOWELS TO MATCH VERTICAL
WALL REINFORCEMENT.
4. WRAP REINFORCING WITH MASTIC
FOR BOND BREAK.
5. (2) #5 REBARS AT BOND BEAM,
DO NOT LAP WITHIN 8'-0" OF
THE CONTROL JOINT.
1. EXPOSED FACE OF WALL SPLIT FACE BLOCK.
2. CONCRETE FOOTING - SEE STRUCTURAL.
3. TYPICAL GUARD RAIL.
4. FINISH GRADE.
5. SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.

GUARD RAIL @ RET. WALL
1/2” = 1’-0”
04B-5001
1. RETAINING WALL.
2. CONCRETE FOOTING - SEE STRUCTURAL.
3. GUARD RAIL.
4. FINISH GRADE.
5. WATERPROOFING.
6. SLOPE TOP OF WALL WHERE APPLICABLE.
   SAW CUT BLOCK AS REQUIRED.
7. EXPOSED FACE OF WALL - SPLIT FACE BLOCK.

GUARD RAIL @ RET. WALL

1/2” = 1’-0”

04B-5002
1. RETAINING WALL - SEE STRUCTURAL.
2. CONCRETE FOOTING - SEE STRUCTURAL.
3. GUARD RAIL.
4. FINISH GRADE.
5. WATERPROOFING.
6. SOLID CAP BLOCK.
7. WEEP HOLE.
8. SLOPE TOP OF WALL WHERE APPLICABLE
   SAW CUT BLOCK AS REQUIRED.

RETAINING WALL
WITH OFFSET FOOTING

1/2” = 1’-0”
1. CONCRETE FOOTING—SEE STRUCTURAL.
2. EXPOSED FACE OF WALL SPLIT FACE BLOCK.
3. FINISH GRADE.
4. SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.
5. #5 REBAR AT 48” O.C.
6. #4 REBAR CONT.
6” CMU PLANTER WALL SEAL AND PAINT TO MATCH BUILDING COLOR

2” Ø DRAINAGE PORT

CONCRETE DRIVE OR SIDEWALK

FINISH GRADE

1’-6” MIN.

1’-0”

8”

1’-0”

C.M.U. PLANTER SECTION

3/4” = 1’-0”

04B-5005
1. SOLID CAP BLOCK.
2. 8" C.M.U.
3. #4 VERTICALS 4" FROM OPENINGS AND CORNERS AT 49" O.C. WITH 6" HOOK.
4. #4 CONTINUOUS.
5. FINISH GRADE.

CMU FENCE
1" = 1'-0"

04B-5006
1. SOLID CAP BLOCK.
2. 8" C.M.U.
3. #4 VERTICALS 4" FROM OPENINGS AND CORNERS AT 49" O.C. WITH 6" HOOK.
4. #4 CONTINUOUS.
5. FINISH GRADE.

CMU FENCE
1" = 1'-0"
1. Masonry Wall.
2. Weld Plate.
3. Concrete Tees parallel to Wall.
1. MASONRY WALL.
2. WELD PLATE.
3. METAL DECK, FLUTES PERPENDICULAR TO WALL.
4. FIRE SAFING MATERIAL.
5. CONCRETE FLOOR SLAB.
1. 5/8" TYPE 'X' GYPSUM BOARD
2. INSULATION WHERE OCCURS.
3. MASONRY WALL.
4. 3-5/8" METAL STUDS
5. TAPE ALL JOINTS.
6. 1 HR CONSTRUCTION NON-BEARING WALL ASSEMBLY.
UL DESIGN NO. U465.

RESISTIVE WALL AT CMU

SCALE: 3" = 1'-0"

04B-6003
UL THROUGH-PENETRATION FIRESTOP
SYSTEMS DESIGN NO. 327.

1. FIRE RESISTANT MASONRY WALL UL NO. U905.
2. FIRE SAFING INSULATION.
3. COMPOSITE SHEET ROOFING SYSTEM ON PLYWOOD DECK OR
   (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD ATTACHED TO
   UNDERSIDE OF STRUCTURAL TRUSSES.
4. 1/2" 'TREMCO' FYRE-SIL SEALANT.
5. 5/8" TYPE 'X' GYPSUM BOARD, CONTINUOUS
   AT ALL EXPOSED LOCATIONS.

WALL @ ROOF DECK

3'' = 1'-0''
ASTM-E814 (UL 1479) AND UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 208

1. 8" CONCRETE MASONRY UNIT OR CONCRETE – 1 OR 2 HOUR WALL.
2. ENCASE SLEEVE IN GROUT.
3. STEEL PIPE SLEEVE – SCHEDULE 40.
4. 6" DIA MAX STEEL PIPE OR CONDUIT.
5. POLYURETHANE BACKER ROD.
6. 1/2" MIN "TREMC" FYRE-SHIELD SEALANT.

1 OR 2 HR PENETRATION

SCALE: 3" = 1’-0”
ASTM-E814 (UL 1479) AND
UL THROUGH-PENNETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 208

1. 8" CONCRETE MASONRY UNIT FIRE RATED.
2. ENCASE SLEEVE IN GROUT.
3. STEEL PIPE SLEEVE - SCHEDULE 40.
4. 6" DIA MAX STEEL PIPE OR CONDUIT.
5. POLYURETHANE BACKER ROD.
6. 1/2" MIN 'TREMCO' FYRE-SHIELD SEALANT.

2 HR PIPE PENETRATION
SCALE: 3” = 1’-0”
1. 8" CONCRETE MASONRY UNIT (MIN.) OR CONCRETE – 1 OR 2 HOUR RATED WALL.
2. ENCASE SLEEVE IN GROUT.
3. STEEL PIPE SLEEVE – SCHEDULE 40.
4. 6" DIA MAX STEEL PIPE OR CONDUIT.
5. POLYURETHANE BACKER ROD.
6. 1/2" MIN 'TREMCO' FYRE-SHIELD SEALANT.

ASTM-E814 (UL 1479) AND UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 208

FIRE-RESISTIVE CONSTRUCTION

GENERAL NOTE:
ALL PENETRATIONS OF FIRE-RESISTANT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING TO THE ARCHITECT, AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL BUILDING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.

PIPE PENETRATION
SCALE: 3" = 1'-0"

04B-6007
1. RATED MASONRY WALL OR CONCRETE WALL ONE OR TWO HOURS, SEE PLAN FOR LOCATION.
2. MASONRY OR CONCRETE LINTEL WHERE APPLICABLE.
3. FIRE OR LEAKAGE (SMOKE) DAMPER, SEE MECHANICAL FOR TYPE AND LOCATION.
4. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" BEYOND THE FIRE WALL AND NOT MORE THAN 9" ON THE OPERATOR/ACTUATOR SIDE.
5. ANGLE 1-1/2" X 1-1/2" X 14-GAGE.
6. 20 GA. G. I. SLEEVE.

UL SAFETY STANDARD 555 AND NFPA 90A

1 & 2 HR. PENETRATION

\[ 3'' = 1' - 0'' \]

04B-6008
1. MASONRY WALL.
2. SEALANT, 7/8" MIN. DEPTH.
3. BACKER ROD.
4. CERAMIC FIBER BLANKET INSULATION: 1-1/2" AT 1 HOUR WALL,
   4-1/2" AT 4 HOUR RATED WALL.
5. 5/8' TYPE 'X' GYPSUM BOARD WHERE OCCURS.
6. 3-5/8" METAL STUDS, WHERE OCCURS.
7. 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURE AT EXTERIOR WITH
   1/4" FLAT HEAD EXPANSION ANCHORS IN COUNTERSUNK HOLES AT 24" O.C.
   SECURE AT INTERIOR WITH #12 SHEET METAL SCREWS AT 6" O.C. IN COUNTER-
   SUNK HOLES. SECURE AT ONE SIDE OF EXPANSION JOINT ONLY.
8. WALL INSULATION BATTs, WHERE OCCURS.
9. STEEL CLOSURE LOCATION AT INTERIOR MASONRY CONDITION.

2 & 4 HOUR EXPANSION JOINT

3" = 1'-0"

04B-6009
1. FIRE STOPPING SEALANT, 'TREMCO' DYMETRIC, POLYTRENDYNE TERPOLYMER.
2. JOINT FILLER - POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
3. 'CERABLANKET-FS' - CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
4. CMU WALL.
5. METAL CONTROL JOINT.
6. METAL STUDS.
7. R-11 BATT INSULATION.
8. 5/8" GYPSUM BOARD.

1 & 2 HOUR CONTROL JOINT

3" = 1'-0"
1. METAL STRAP FROM PLATE TO WOOD JOIST.
2. 2 LAYERS 5/8" TYPE 'X' CYP. BD. ON BOTTOM OF WOOD JOIST.
3. 1/2" MIN. DEPTH OF 3M FIRE BARRIER CP 25N/S (UL DES. NO. J900C) OR TREMCO FIRE-SIL SEALANT (UL DES. NO. 327).
4. MINERAL WOOD FIRE-SAFING.
5. 5/8" TYPE 'X' CYP. BD. STRIP.
   ON EACH SIDE OF WOOD PLATE.
6. WOOD PLATE.
7. MASONRY WALL.

C.M.U. WALL @ JOIST

3” = 1’-0”

04B-6011
1. MASONRY WALL.
2. WELD PLATE.
3. CEILING WHERE APPLICABLE.
4. SEE ROOM FINISH SCHEDULE & WALL TYPES FOR MATERIAL & FINISH.
5. METAL ROOF DECK.
6. 1/2" 'TREMCO' FYRE-SIL SEALANT EACH SIDE ON FIRE SAFING UL DESIGN NO. 327 AT RATED WALL.
7. ROOFING SYSTEM ON RIGID INSULATION.
8. CASING BEAD AND SEALANT AT GYPSUM BOARD.
UBC TABLE 43-B ITEM 5-11.

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL GROUTED SOLID.
2. MORTAR - BLOCKS LAID IN FULL BED OF MORTAR, NOMINAL 3/8" THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.
3. SOLID GROUT OR LOOSE FILL INSULATION.

4 HOUR MASONRY WALL

SCALE: 1 1/2" = 1'-0"
UL DESIGN NO. U901

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL GROUTED SOLID.
2. MORTAR - BLOCKS LAID IN FULL BED ON MORTAR, NOMINAL 3/8" THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.
UL DESIGN NO. U905

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL.
2. MORTAR – BLOCKS LAID IN FULL BED ON MORTAR, NOMINAL 3/8" THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.

2 HOUR C.M.U. WALL
SCALE: 1 1/2” = 1’-0”

04B-6015
1. FIRE STOPPING SEALANT, 'TREMCO' DYMERIC, POLYTREMDYNE TERPOLYMER.
2. JOINT FILLER - POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
3. 'CERABLANKET-FS' - CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
4. RATED MASONRY WALL.
UBC TABLE 43-B ITEM 5-1.1.

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL.
2. MORTAR - BLOCKS LAID IN FULL BED OF MORTAR, NOMINAL 3/8" THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.

1 OR 2 HOUR CMU WALL

SCALE: 1 1/2" = 1'-0"
1. FIRE STOPPING SEALANT, 'TREMCO' DYMETRIC, POLYTRENDYNE TERPOLYMER.
2. JOINT FILLER - POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
3. 'CERABLANKET-FS' - CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
4. CMU WITH LIGHTWEIGHT COURSE AGGREGATE, 2 HOUR FIRE RESISTANCE.

GENERAL NOTE

ICBO EVALUATION REPORT NO. 3196

ALL PENETRATIONS OF FIRE-RESISTANT FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING TO THE ARCHITECT, AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.

1-1/2 AND 3 HOUR CMU

SCALE: 3" = 1'-0"

04B-6018
1. MASONRY WALL.
2. SEALANT, 7/8" MIN. DEPTH.
3. BACKER ROD.
4. 1-1/2" MIN. CERAMIC FIBER BLANKET INSULATION.
5. 3-5/8" METAL STUDS SECURE TO MASONRY.
6. 5/8" GYPSUM BOARD.
7. CASING BEAD.
8. DO NOT SECURE FURRED WALLS TOGETHER AT CORNER.
9. 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE. SECURED AT ONE SIDE ONLY WITH 1/4" FLAT HEAD EXPANSION SCREWS IN COUNTERSUNK HOLES AT 24" O.C. PLATE CONTINUOUS FROM TOP OF BASE TO CEILING.

1 HOUR EXPANSION JOINT

SCALE: 3" = 1'-0"

04B-6019
1. MASONRY WALL.
2. SEALANT, 7/8" MIN. DEPTH.
3. BACKER ROD.
4. 1-1/2" MIN. CERAMIC FIBER BLANKET INSULATION.
5. 5/8" GYPSUM BOARD. WRAP AROUND END STUD.
6. 3-5/8" METAL STUD.
7. 3-5/8" METAL STUD. SECURE TO MASONRY.
8. CASING BEAD.
9. DO NOT SECURE WALLS TOGETHER AT CORNER.
10. 4" WIDE X 1/4" THICK STEEL PLATE CLOSURE.
    SECURED TO MASONRY AT ONE SIDE ONLY WITH 1/4" FLAT HEAD EXPANSION SCREWS IN COUNTER-SINK HOLES AT 24" O.C. PLATE CONTINUOUS FROM TOP OF BASE TO CEILING.
11. EXPANSION JOINT.
12. 1 HOUR RATED CONSTRUCTION PER UL DESIGN NO. U465.

11. EXPANSION JOINT.

3" = 1'-0"
1. MASONRY WALL.
2. SEALANT, 7/8” MIN. DEPTH.
3. BACKER ROD.
4. CERAMIC FIBER
   BLANKET INSULATION.
5. PLASTER SUP JOINT.
6. CEMENT PLASTER.
7. 5/8” "X" GYPSUM BOARD.
8. 3–5/8” METAL STUDS.
   SECURE TO MASONRY.
9. CASING BEAD.
10. DO NOT SECURE FURRED WALLS TOGETHER AT CORNER.
11. PLASTER CORNER BEAD.

2 & 4 HOUR EXP. JOINT

SCALE: 3” = 1’-0”

04B-6021
3/8" THK. FIBROUS GLASS EXPANSION STRIP

8" X 8" X 3 1/8" PITTSBURGH-CORNING "VUE" GLASS BLOCK UNITS

FIRE RESISTANT SEALANT

ALL SCREWS @ 8" O.C.

3 5/8" X 16 GA. DOUBLE METAL STUDS

5/8" TYPE "X" GYPSUM BOARD

1 3/4" C 24 P-C PANEL ANCHOR @ 16" O.C.

U.L. LABS # R2556, 91NK10106

RATED GLASS BLOCK

6" = 1'-0"

04B-7001
1. RATED C.M.U. WALL.
2. FIRE SAFING INSULATION.
3. METAL DECK.
4. CLASS A ROOFING SYSTEM OVER LIGHT WEIGHT CONCRETE FILL.
5. 1/2” "TREMCO" FYRE-SIL SEALANT.
UL THROUGH-PENETRATION FIRESTOP SYSTEMS DESIGN NO. 327.

1. FIRE RESISTANT MASONRY WALL UL NO. U905.
2. FIRE SAFING INSULATION.
3. COMPOSITE SHEET ROOFING SYSTEM ON PLYWOOD DECK OR (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD ATTACHED TO UNDERSIDE OF STRUCTURAL TRUSSES.
4. 1/2" 'TREMCO' FYRE-SIL SEALANT.
5. 5/8" TYPE 'X' GYPSUM BOARD, CONTINUOUS AT ALL EXPOSED LOCATIONS.
ASTM-E814 (UL 1479) AND
UL THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 208

1. 8" CONCRETE MASONRY UNIT FIRE RATED.
2. ENCASE SLEEVE IN GROUT.
3. STEEL PIPE SLEEVE – SCHEDULE 40.
4. 6" DIA MAX STEEL PIPE OR CONDUIT.
5. POLYURETHANE BACKER ROD.
6. 1/2" MIN 'TREMCO' FYRE-SHIELD SEALANT.

2 HR PIPE PENETRATION

SCALE: 3" = 1’-0”
ASTM-E814 (UL 1479) AND UL THROUGH- PENE TRATION FIRESTOP SYSTEMS (XHEZ) SYSTEM NO. 208

FIRE—RESISTIVE CONSTRUCTION

GENERAL NOTE:
ALL PENETRATIONS OF FIRE—RESISTANT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH—PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING TO THE ARCHITECT, AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL BUILDING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.

PIPE P E N E TRATION

SCALE: 3” = 1′-0”
1. Rated masonry wall or concrete wall one or two hours, see plan for location.
2. Masonry or concrete lintel where applicable.
3. Fire or leakage (smoke) damper. See mechanical for type and location.
4. Damper sleeve shall not extend more than 6" beyond the fire wall and not more than 9" on the operator/actuator side.
5. Angle 1-1/2" x 1-1/2" x 14 gauge.
6. 20 ga. g. i. sleeve.

UL Safety Standard 555 and NFPA 90A

1 & 2 HR. PENETRATION
3" = 1'-0"

04D-1005
1. Metal roof system over plywood deck.
2. 5/8" type 'A' gyp. board in 4 ft. wide sheets installed perpendicular to steel roof deck with joints staggered and occurring over the crests of roof deck. Secure to deck with adhesive bearing U.L. classification marking.
3. 1-1/2" minimum thickness steel roof deck.
4. Cementitious sprayed-on fire-proofing - minimum 7/8" thick over both steel beam and steel deck.

Note: Detail provides one-hour fire resistive rating for beam and deck per U.L. #710.
2 HOUR
WELDED TO TORCEMENTITIOUS
2-7/16 TO ONE SIDE OF EACH JOIST WEB MEMBER. THE METHOD OF ATTACHING THE MESH MUST BE SUFFICIENT TO HOLD THE MESH AND THE SPRAY-APPLIED CEMENTITIOUS MIXTURE MATERIAL IN PLACE DURING APPLICATION UNTIL IT HAS CURED. AN ACCEPTABLE METHOD TO ATTACH THE MESH IS BY EMBEDDING THE MESH IN MIN. 1/4"-LONG BEADS OF HOT-MELTED GLUE. THE BEADS OF GLUE SHALL BE PLACED A MAX. OF 12" O.C. ALONG THE TOP CHORD OF THE BAR JOIST. ANOTHER METHOD TO SECURE THE MESH IS BY 1-1/4" LONG BY 1/2" WIDE HAIRPIN CLIPS FORMED FROM NO. 18 GA. OR HEAVIER STEEL WIRE. CEMENTITIOUS MIXTURE - SPRAY APPLIED TO BEAM OR JOIST IN MORE THAN ONE COAT TO A FINAL THICKNESS OF 1-3/8" MINIMUM BEAM SIZE W6X16 MINIMUM JOIST SIZE 12X4. CREST AREAS OF STEEL ROOF UNITS SHALL BE FILLED WITH CEMENTITIOUS MIXTURE ABOVE THE BEAM OR JOIST. BEAM OR JOIST SURFACES MUST BE CLEAN AND FREE OF DIRT, LOOSE SCALE AND OIL. MINIMUM AVERAGE DENSITY OF 15/14PCF RESPECTIVELY. FOR METHOD OF DENSITY DETERMINATION, REFER TO DESIGN INFORMATION SECTION. ZONOLITE CONSTRUCTION PRODUCTS DIVISION, W. R. GRACE & CO. TYPE MK-6/CBF FOR TYPE 12X4 STEEL JOISTS, THE JOIST PROTECTION SHALL CONSIST OF THE ABOVE CEMENTITIOUS MIXURES APPLIED IN A MANNER AND AT THE THICKNESSES SHOWN BELOW. WHEN METAL LATH (ITEM 7) IS USED, LATH SECURED TO ONE SIDE OF JOIST WITH 18 GA. GALVANIZED WIRE AT JOIST WEB AND BOTTOM CHORD MEMBERS SPACED 15" O.C. THICKNESS OF UNRESTRAINED ASSEMBLY TYPE OF CEMENTITIOUS MIXTURE, INCHES
1-1/8 APPLIED TO LATH 2 HOUR WRAPPED ON ONE SIDE OF JOIST APPLIED DIRECTLY TO JOIST IN A CONTOUR MANNER
2-7/16 11 STEEL BRIDGING - IN ACCORDANCE WITH ANSI CURRENT SPECIFICATIONS. CONTINUOUS STEEL ANGLE, MIN. SIZE 1-1/4" BY 1-1/4" BY 5/8" WELDED TO TOP AND BOTTOM CHORDS. BRIDGING COATED WITH 3" THICKNESS OF CEMENTITIOUS MIXTURE FOR THE 3 ASSEMBLY AND BEAM RATINGS.
1. METAL STRAP FROM PLATE TO WOOD JOIST.
2. 2 LAYERS 5/8" TYPE 'X' CYP. BD. ON BOTTOM OF WOOD JOIST.
3. 1/2" MIN. DEPTH OF 3M FIRE BARRIER CP 25N/S (UL DES. NO. J900C) OR TREMCO FIRE-SIL SEALANT (UL DES. NO. 327).
4. MINERAL WOOD FIRE-SAVING.
5. 5/8" TYPE 'X' CYP. BD. STRIP.
   ON EACH SIDE OF WOOD PLATE.
6. WOOD PLATE.
7. MASONRY WALL.
UBC TABLE 43-B ITEM 5-1.1.

1. 8” NOMINAL CONCRETE MASONRY UNIT (CMU) WALL GROUTED SOLID.
2. MORTAR - BLOCKS LAID IN FULL BED OF MORTAR, NOMINAL 3/8” THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.
3. SOLID GROUT OR LOOSE FILL INSULATION.
UL DESIGN NO. U901

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL GROUTED SOLID.
2. MORTAR - BLOCKS LAID IN FULL BED ON MORTAR, NOMINAL 3/8" THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.

4 HOUR CMU WALL

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

04D-1010
UL DESIGN NO. U905

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL.
2. MORTAR – BLOCKS LAID IN FULL BED ON MORTAR, NOMINAL 3/8" THICK, OF
   NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND
   TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN
   50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS
   STAGGERED.
ICBO EVALUATION REPORT NO. 3196

1. FIRE STOPPING SEALANT, 'TREMCO' DYMETRIC, POLYTRENDYNE TERPOLYMER.
2. JOINT FILLER - POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
3. 'CERABLANKET-FS' - CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
4. RATED MASONRY WALL.
UBC TABLE 43-B ITEM 5-1.1.

1. 8" NOMINAL CONCRETE MASONRY UNIT (CMU) WALL.
2. MORTAR - BLOCKS LAID IN FULL BED OF MORTAR, NOMINAL 3/8" THICK, OF NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS STAGGERED.
1. FIRE STOPPING SEALANT, 'TREMCO' DYMERIC, POLYTREMODYNE TERPOLYMER.
2. JOINT FILLER - POLYETHYLENE CLOSED-CELL FOAM, BY 'DOW CHEMICAL'.
3. 'CERABLAcket-FS' - CERAMIC FIBER BLANKET INSULATION, BY 'JOHNS-MANVILLE'.
4. CMU WITH LIGHTWEIGHT COURSE AGGREGATE, 2 HOUR FIRE RESISTANCE.

GENERAL NOTE

ALL PENETRATIONS OF FIRE-RESISTANT FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING TO THE ARCHITECT, AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.

SCALE: 3" = 1'-0"

04D-1014
1. MASONRY WALL.
2. SEALANT, 7/8” MIN. DEPTH.
3. BACKER ROD.
4. 1-1/2”, MIN. CERAMIC FIBER BLANKET INSULATION.
5. 3-5/8” METAL STUDS SECURE TO MASONRY.
6. 5/8” GYPSUM BOARD.
7. CASING BEAD.
8. DO NOT SECURE FURRED WALLS TOGETHER AT CORNER.
9. 4” WIDE X 1/4” THICK STEEL PLATE CLOSURE, SECURED AT ONE SIDE ONLY WITH 1/4” FLAT HEAD EXPANSION SCREWS IN COUNTERSUNK HOLES AT 24” O.C. PLATE CONTINUOUS FROM TOP OF BASE TO CEILING.

1 HOUR EXPANSION JOINT

SCALE: 3” = 1’-0”

04D-1015
STONE WALL

1" = 1'-0"

04C-1001
STONE / MASONRY WALL

4 X 4 X 16 MASONRY
GROUT CAVITY SOLID

(2) #4 VERTICAL @ 48" O.C.
QUARRIED STONE

FINISHED GRADE

5/8" GYPSUM BOARD
TRUSS WIRE JOINT REINFORCING

3 5/8" METAL STUDS @ 24" O.C.

4" CONCRETE SLAB OVER 4" ABC

(2) #4 REBAR CONTINUOUS

(2) #4 REBAR CONTINUOUS

BELOW UNDISTURBED SOIL

1" = 1'-0"

04C-1002
5/8" METAL STUDS @ 24" O.C.

4" CONCRETE SLAB OVER 4" ABC

5/8" GYPSUM BOARD

JOINT REINFORCING

GROUT CAVITY

SOLID

(2) #4 VERTICAL @ 48" O.C.

FINISHED GRADE

BETWEEN UNDISTURBED SOIL

LIMESTONE WALL

1" = 1'-0"

04C-1003
1. BALTER - 7” Ø MAXIMUM WITH 7” Ø TOP AND BOTTOM.
2. 3/8” Ø X 4” STAINLESS STEEL DOWELS (2 PER BALUSTER), FIELD DRILL.
3. CAST STONE CAP.
4. CAST STONE PIER.
5. KEY SLOT.

NOTE: PIER ANCHORAGE (NOT SHOWN) PROVIDES STRUCTURAL RESTRAINT FOR FULL BALUSTRADE.
1. BALUSTER – 7” Ø MAXIMUM WITH 7” Ø TOP AND BOTTOM.
2. 3/8” Ø X 4” STAINLESS STEEL DOWELS (2 PER BALUSTER), FIELD DRILL.
3. CAST STONE CAP.
4. CAST STONE PIER.
5. KEY SLOT.

NOTE: PIER ANCHORAGE (NOT SHOWN) PROVIDES STRUCTURAL RESTRAINT FOR FULL BALUSTRADE.

STONE RAILING

1/2” = 1’-0”

04C-1004
1. STONE TREAD.
2. STONE RISER.
3. RETAINING PIN.
4. FINE STONE SAND.
5. SOIL.
6. BULLNOSE.
1. STONE TREAD.
2. STONE RISER.
3. RETAINING PIN.
4. FINE STONE SAND.
5. SOIL.
6. BULLNOSE.

EXTerior STONE STEPS

N.T.S.

04C-1005
STONE VENEER CORNERS
N.T.S.
04C-1006
CONTINUOUS STRUT

LIMESTONE PANEL

SEALANT AND BACKER ROD

ANCHORING CUP SYSTEM

GYPSUM SHEATHING

LIMESTONE VENEER

3" = 1'-0"

04C-2001
LIMESTONE VENEER

3" = 1'-0"

04C-2002
1. STONE TREAD.
2. STONE RISER.
3. RETAINING PIN.
4. FINE STONE SAND.
5. SOIL.
6. BULLNOSE.

EXTERIOR STONE STEPS
N.T.S.

04C-2003
1. STONE TREAD.
2. STONE RISER.
3. RETAINING PIN.
4. FINE STONE SAND.
5. SOIL.
6. BULLNOSE.

EXTERIOR STONE STEPS
N.T.S.
04C-2003
1. BALUSTER – 7” ø MAXIMUM WITH 7” ø TOP AND BOTTOM.
2. 3/8” ø X 4” STAINLESS STEEL DOWELS (2 PER BALUSTER), FIELD DRILL.
3. CAST STONE CAP.
4. CAST STONE PIER.
5. KEY SLOT.

NOTE: PIER ANCHORAGE (NOT SHOWN) PROVIDES STRUCTURAL RESTRAINT FOR FULL BALUSTRADE.
1. BALUSTER – 7" Ø MAXIMUM WITH 7" Ø TOP AND BOTTOM.
2. 3/8" Ø X 4" STAINLESS STEEL DOWELS (2 PER BALUSTER), FIELD DRILL.
3. CAST STONE CAP.
4. CAST STONE PIER.
5. KEY SLOT.

NOTE: PIER ANCHORAGE (NOT SHOWN) PROVIDES STRUCTURAL RESTRAINT FOR FULL BALUSTRADE.
STONE VENEER CORNERS
N.T.S. 04C-3003
STONE VENEER CORNERS
N.T.S.
04C-3003
2 x 10 ledger with (2) 7/8" Ø anchor bolts @ 16" o.c.

2 (2) #4 rebar continuous in bond beam

Prefab wood truss @ 16" o.c.

"Simpson" Hus joist hanger

(2) layers 5/8" type "X" gypsum board

Masonry wall

04C-4001
2 X 6 STUD WALL
4" COIN CRETE SLAB
OVER 4" ABC
AIR SPACE
1" RIGID INSULATION
LIMESTONE VENEER
MASONRY TIE
FINISHED GRADE
BELOW UNDISTURBED SOIL
PER FDN. PLAN
(2) #4 REBAR CONTINUOUS
(2) #4 REBAR CONTINUOUS

LIMESTONE VENEER
1" = 1’-0”
04C-5001
5002

- 4" CONCRETE SLAB
OVER 4" ABC

3-5/8" METAL STUDS
@ 24" O.C.

4" CONCRETE SLAB
OVER 4" ABC

LIMESTONE VENEER

MASONRY TIE

FINISHED GRADE

BELOW UNDISTURBED SOIL

PER FDN. PLAN

LIMESTONE VENEER

1" = 1'-0"

(2) #4 REBAR
CONTINUOUS

(2) #4 REBAR
CONTINUOUS

Samples from
www.AutoCADDetails.net
5/8" METAL STUDS @ 24" O.C.

4" CONCRETE SLAB OVER 4" ABC

3 5/8" METAL STUDS

5/8" GYPSUM BOARD

JOINT REINFORCING

GROUT CAVITY SOLID

{(2) #4 VERTICAL @ 48" O.C.}

(2) #4 REBAR CONTINUOUS

FINISHED GRADE

BELOW UNDISTURBED SOIL

LIMESTONE WALL

1" = 1'-0"

04C-5003
1. 1/2” Ø anchor bolts at 4’-0” O.C. and each end (minimum 2 per board), unless noted otherwise.
2. Bottom track.
3. Metal stud wall – see plan.
4. RC-1 channels spaced at 24” O.C. attached with 1” type “S” screws.
5. Stone siding – see elevations for specifications.
6. 4” concrete slab on 4” A.B.C., reinforced per foundation plan.
7. (2) #4 rebar, continuous.
8. (2) #5 rebar, top and bottom, continuous.
9. #5 rebar vertical at 24” O.C.
10. 5/8” type ‘X’ one hour gypsum wall board, taped, textured, and painted.

FOOTING WITH STONE VENEER LEDGE

3/4” = 1’-0”
1. 1/2” φ ANCHOR BOLTS AT 4'-0” O.C. AND EACH END (MINIMUM 2 PER BOARD), UNLESS NOTED OTHERWISE.
2. BOTTOM TRACK.
3. METAL STUD WALL – SEE PLAN.
4. RC-1 CHANNELS SPACED AT 24” O.C. ATTACHED WITH 1” TYPE "S" SCREWS.
5. STONE SIDING – SEE ELEVATIONS FOR SPECIFICATIONS.
6. 4" CONCRETE SLAB ON 4" A.B.C., REINFORCED PER FOUNDATION PLAN.
7. (2) #4 REBAR, CONTINUOUS.
8. (2) #5 REBAR, TOP AND BOTTOM, CONTINUOUS.
9. #5 REBAR VERTICAL AT 24” O.C.
10. 5/8” TYPE ‘X’ ONE HOUR GYPSUM WALL BOARD, TAPED, TEXTURED, AND PAINTED.
LIMESTONE WALL

1" = 1'-0"

GROUT CAVITY SOLID

(2) #4 VERTICAL @ 48" O.C.

MODULAR CUT LIMESTONE

FINISHED GRADE

BETWEEN UNDISTURBED GRADE

4" CONCRETE SLAB OVER 4" ABC

(2) #4 REBAR CONTINUOUS

JOINT REINFORCING

(2) #4 REBAR CONTINUOUS

PER PLAN

PER PLAN

LIMESTONE WALL 04C-7003
LIMESTONE WALL

1” = 1’-0”

5/8” METAL STUDS @ 24” O.C.

4” CONCRETE SLAB OVER 4” ABC

(2) #4 VERTICAL @ 48” O.C.

3 5/8” METAL STUDS @ 24” O.C.

GROUT CAVITY SOLID

JOINT REINFORCING

(2) #4 REBAR CONTINUOUS

FINISHED GRADE

(2) #4 REBAR CONTINUOUS

BELOW UNDISTURBED SOIL

LIMESTONE WALL

1” = 1’-0”

04C-7004
LIMESTONE WINDOW TREATMENT

1. LIMESTONE FACE.
2. WINDOW – SEE SCHEDULE.
3. HEADER.
4. SILL.
5. 2 X STUD WALL.
6. MASONRY TIES.

1/2” = 1’-0”
LIMESTONE WINDOW TREATMENT

1/2" = 1'-0"

 Samples from www.AutoCADDetails.net

1. LIMESTONE FACE.
2. WINDOW – SEE SCHEDULE.
3. HEADER.
4. SILL.
5. 2 X STUD WALL.
6. MASONRY TIES.
THINSET
FLOOR TILE
GROUTING
MORTAR UNIT
WOOD SUBFLOOR
FLOOR JOISTS

SYNTHETIC STONE VENEER

3” = 1’-0”

04C-8001