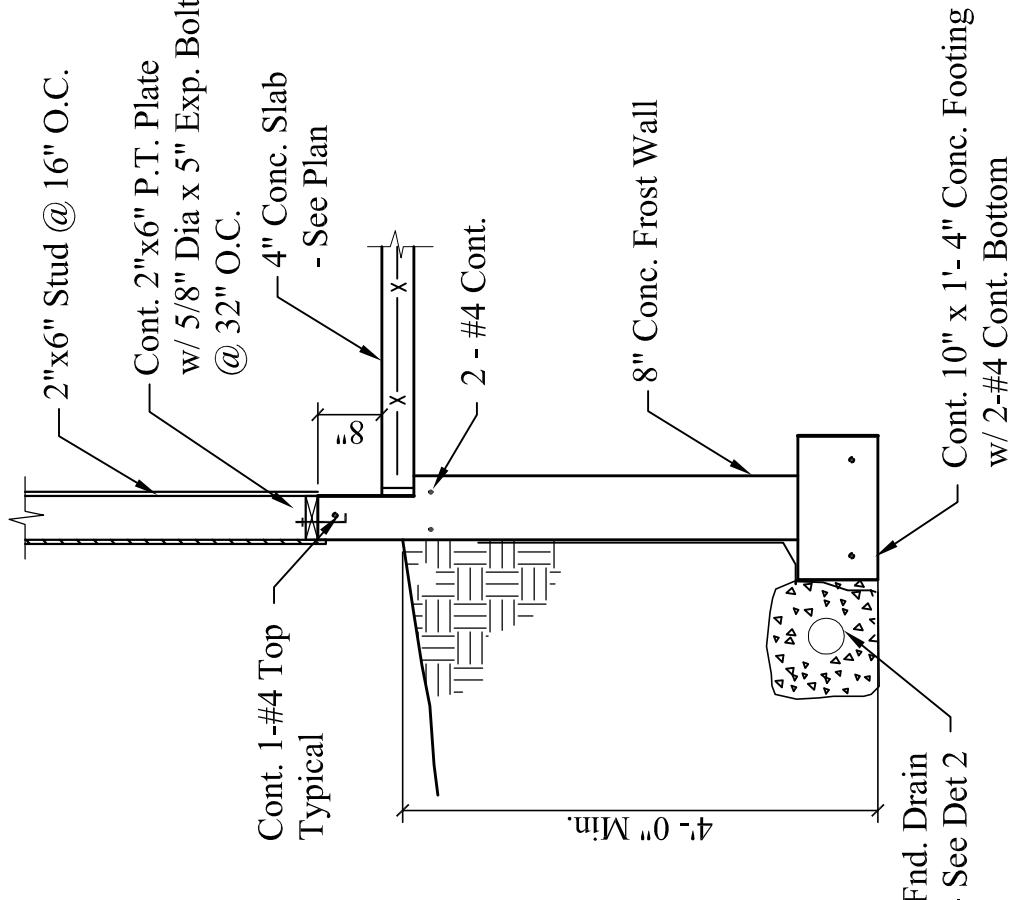
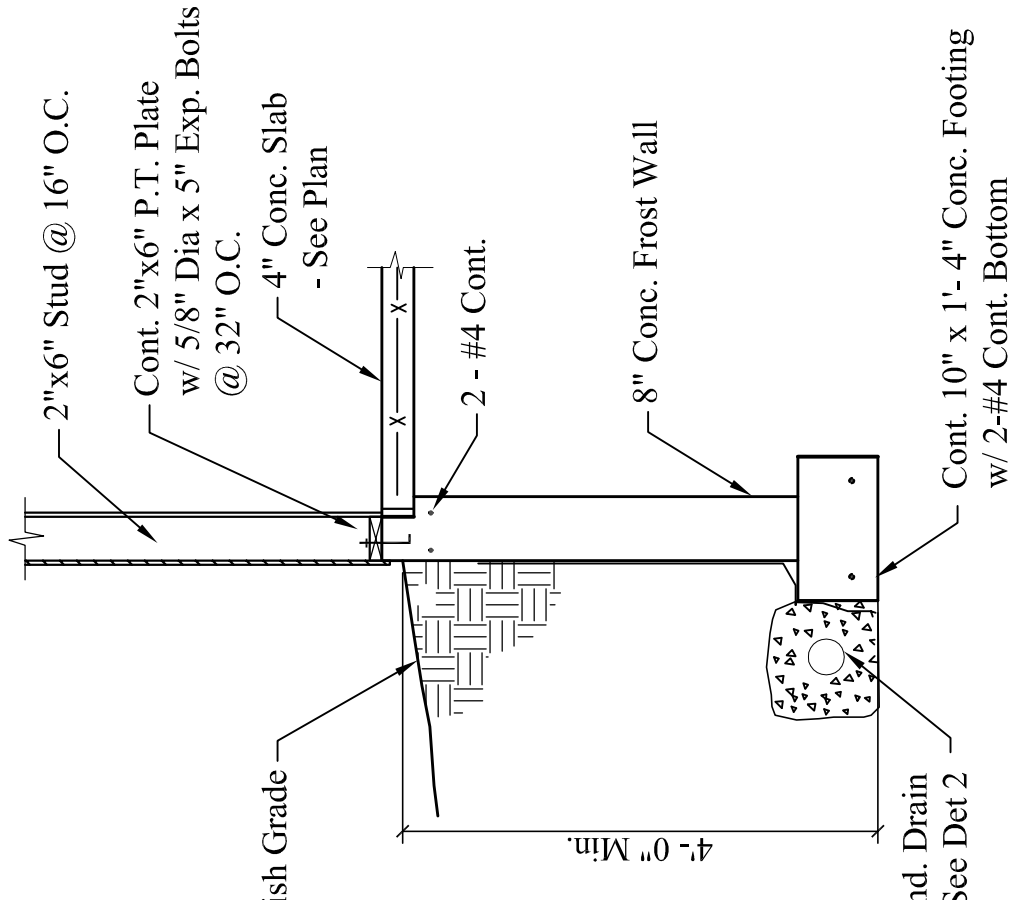


STRUCTURAL NOTES:

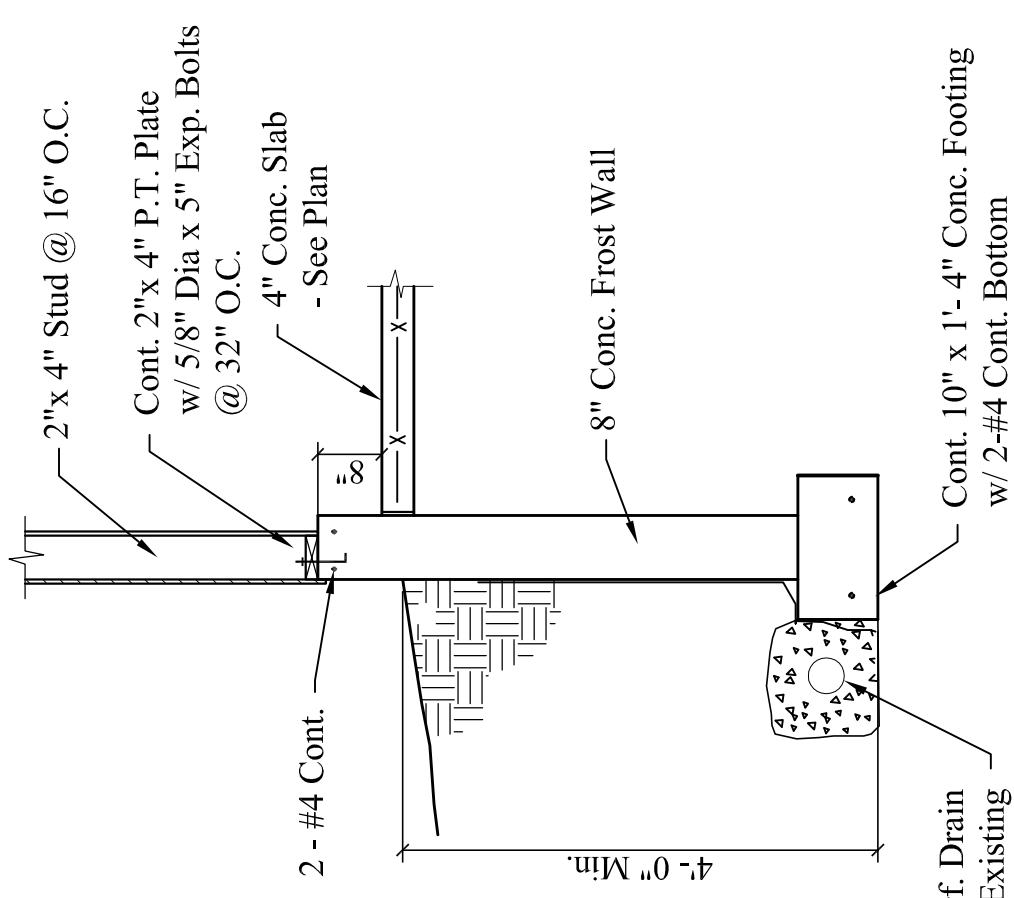
- CODE: Comply with the 2012 International Residential Building Code.
- DESIGN LOADS:
Dead Loads: Roof = 15.0 psf, Floor = 10.0 psf.
Live Loads: Roof = 30.0 psf (Plus Drift), 1st Floor = 40.0 psf, 2nd Floor = 35.0 psf.
Wind Load: Building = 28.0 psf
- FOUNDATIONS:
1. Bear footings on firm, undisturbed dense native soil at 4" - 0" minimum below lowest adjacent finish or natural grade, which ever is lower. Step footings to achieve these depths as required.
2. Assume soil bearing pressure = 2,000 psf.
3. Footings shall be cast in firm, dry bearing material.
4. Engineer shall be notified if some ledge or marine clay is found during excavation.
5. See architectural drawings for additional information not shown.
- CONCRETE:
1. Concrete regular weight (144 pcf) with Type II cement per ASTM C150, aggregate per ASTM C33, and sand per ASTM C602. Minimum compressive strength = 3,000 psi. Maximum water-cement ratio = 0.50. Minimum air content = 5% for air-entrained concrete. Minimum slab thickness = 4" for footings and slabs. Minimum compressive strength = 3,000 psi for slabs on grade and 4,000 psi for exterior slabs and sidewalks.
2. Saw cuts for floor slab control joints (CJ) shall be made as soon as the slab can support the weight of the saw, but no more than 12 hours after placing concrete. Max. 24 sq. ft. of per saw cut area.
3. Back all garage floor slabs 1/4 ft. toward outside head door.
4. Slabs shall bear on 2" rigid insulation with 8" deep compacted crushed stone below.
- REINFORCING:
1. ASTM A 615-S1, Grade 60 except #2 and #3 bars ASTM A615-S1; Grade 40.
2. Provide bent corner reinforcing to match and lap with horizontal reinforcing at corners.
4. Reinforcing shall be placed with 3" clearance at all surfaces.
- STEEL:
1. Rolled sections and plates: ASTM A-36, Fy = 36 ksi.
2. Steel Lally Columns: ASTM A513, Fy = 32 ksi; 16 gage steel filled w/ 3,000 psi concrete.
3. Steel Decking: ASTM A992, Fy = 50 ksi; ASTM A-36, Fy = 36 ksi.
4. Bolts and plain anchors: ASTM A 307.
5. Submit shop drawings. Fabricate after Engineers review.
- WOOD:
1. General:
a. Each piece of lumber shall be "S, DRY" and bear the grade stamp of a grading rules agency approved by the American Lumber Standards Committee.
b. Double up studs at jacks and under beams.
c. Do not notch or drill joists, beams or load bearing studs without approval.
2. Connections:
a. Nail roof plywood with 8d common at 6" o.c. at all edges and boundary members and 10" o.c. at intermediate supports.
b. Nail roof plywood with all framing members and nail with 8d common at 6" o.c. at all plywood edges and boundary members and 10" o.c. at intermediate supports.
c. Nail wall plywood with 10d common nails at 6" o.c. at all edges and boundary members and 12" o.c. at intermediate supports.
3. Structural Sawn Lumber:
a. 2 x 6 thru 2 x 14 joists: Spruce Pine Fir No. 2 with Fb (repetitive) = 1200 p.s.i.
b. Studs: Spruce Pine Fir No. 2 with Fb (repetitive) = 200 p.s.i.
c. Lumber Veneer Lumber (LVL): Fb = 2800 psi; Fv = 285 psi; E = 2,000 ksi
4. Plywood:
a. 48/24. Lay up with face grain perpendicular to supports. Stagger joints. Each plywood piece to be continuous over a minimum of two spans with a minimum width of 1'-0" unless blocking is provided at all joints.
b. Sheathing: C-D INT-APA (PSI-04) with exterior glue; 5/8" with Identification Index provided at all joints. Lay up with face grain perpendicular to supports. Stagger joints. Each plywood piece to be continuous over a minimum of two spans with a minimum width of 1'-0" unless blocking is provided at all joints.
c. Wall Sheathing: C-D INT-APA (PSI-74) with exterior glue, 1/2" with Identification Index 24/0. All panel edges backed with 2" nominal or wider framing.
- SUPPLEMENTARY NOTES:
1. Verify all dimensions and conditions with architectural drawings prior to starting work. Notify the Engineer of any discrepancies or inconsistencies.
2. Provide all necessary temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction.



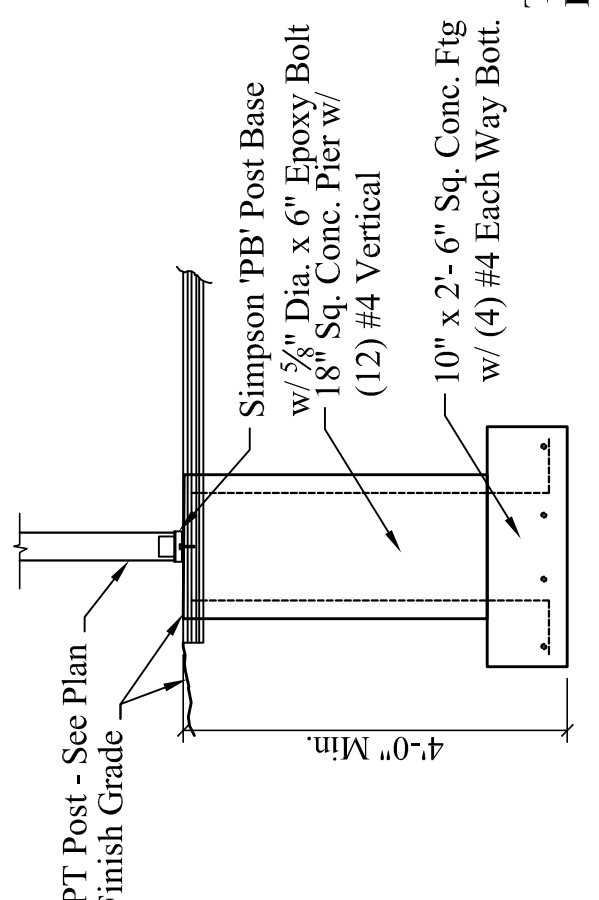
4 FOUNDATION @ STUD WALL
Scale: 1/2" = 1'-0"



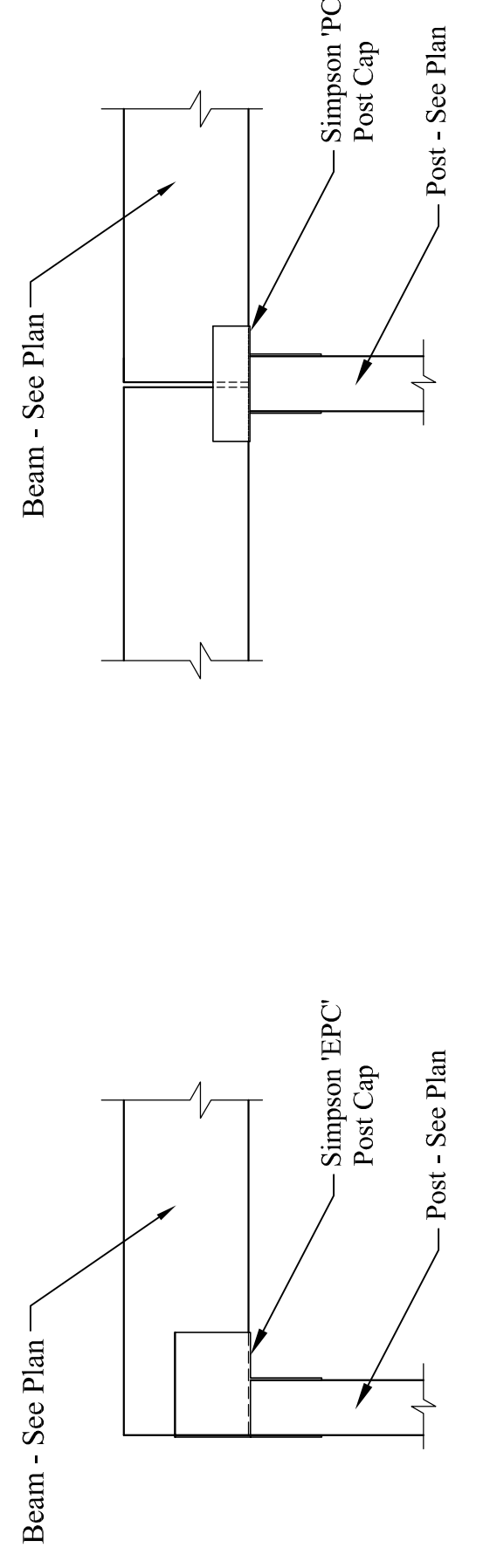
3 FOUNDATION @ STUD WALL
Scale: 1/2" = 1'-0"



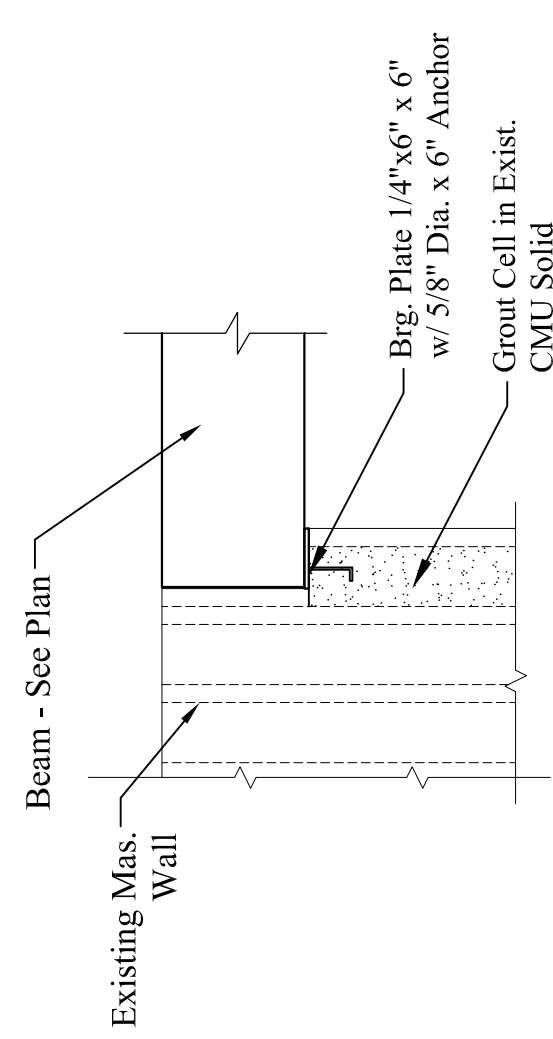
2 FOUNDATION @ STUD WALL
Scale: 1/2" = 1'-0"



1 POST @ CONCRETE PIER
Scale: 1/2" = 1'-0"



9 WOOD BM. TO WOOD POST CONN.
Scale: 3/4" = 1'-0"

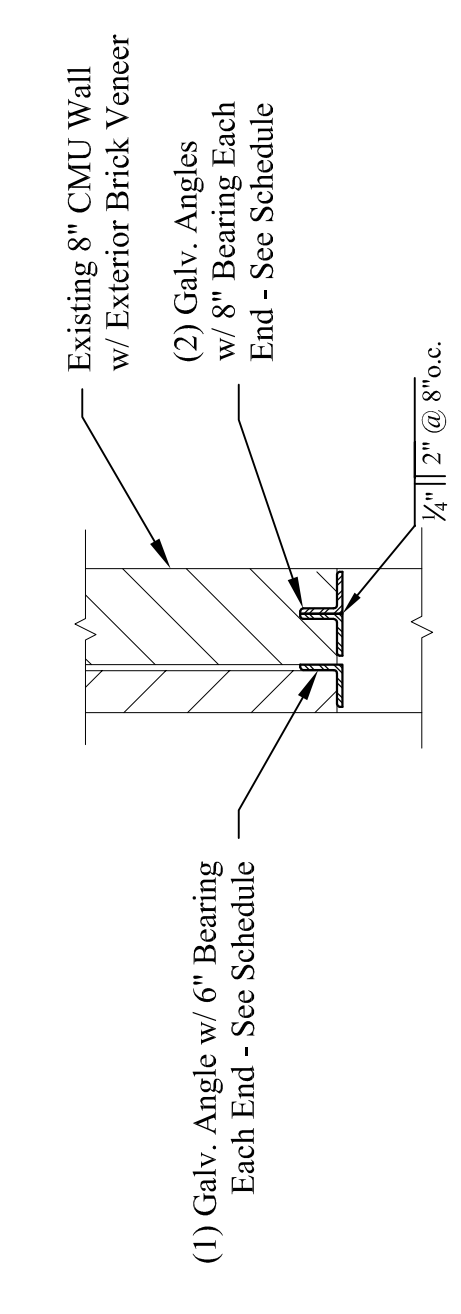


11 WOOD BM. TO MASONRY WALL
Scale: 3/4" = 1'-0"

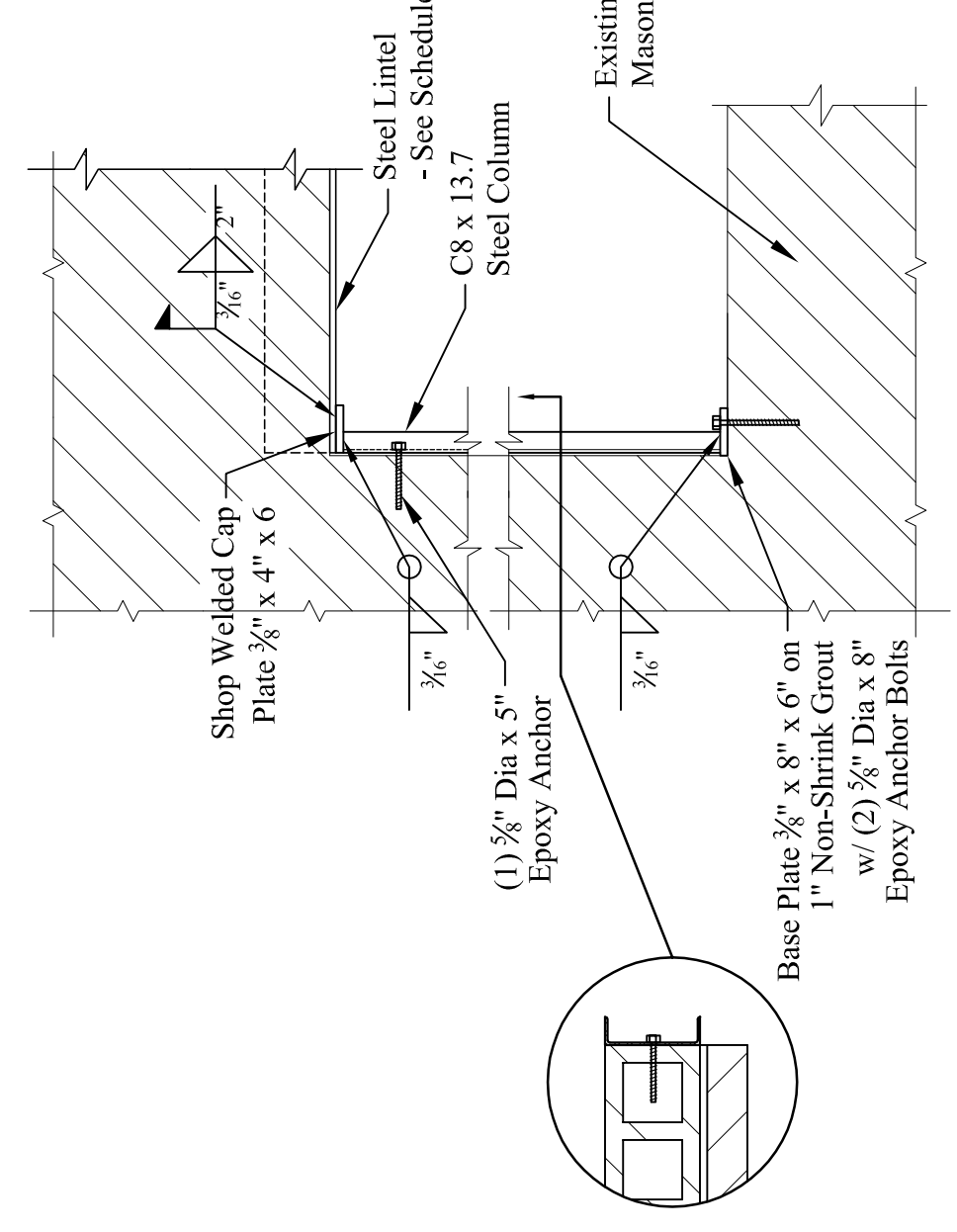
MASONRY HEADER SCHEDULE

NOTE: Field verify thickness of brick masonry wall prior to fabricating steel.

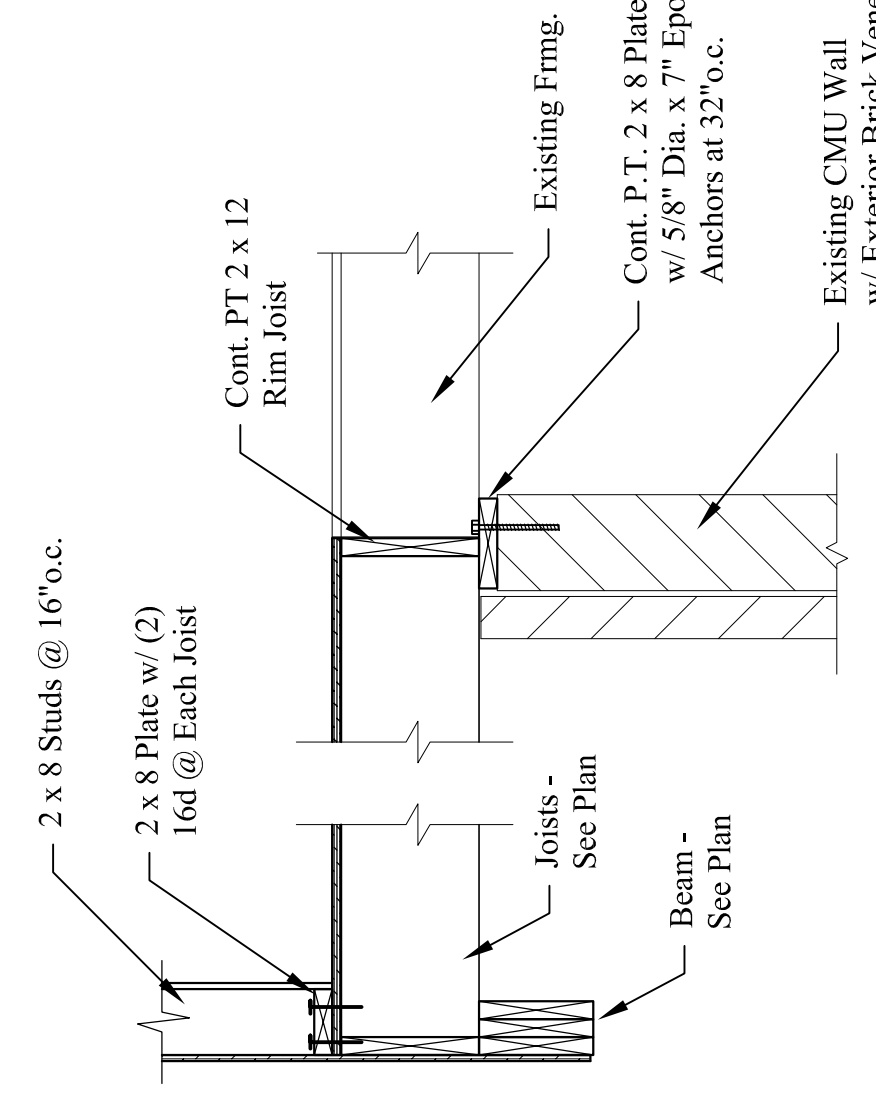
MARK	MAX. WIDTH	MEMBER SIZE	WALL TYPE	NOTES
MH-1	3'-1"	(2) 3 1/2" x 3 1/2" x 3/8" w/ (1) 3/2" x 3/2" x 3/8"	8" CMU Wall w/ Brick Veneer	See Detail 14/S1 & Bear 6" at Jamb
MH-2	6'-1"	(2) 4" x 3 1/2" x 3/8" (LLV) w/ (1) 4" x 3 1/2" x 3/8" (LLV)	8" CMU Wall w/ Brick Veneer	See Detail 14/S1 & Bear 8" at Jamb
MH-3	8'-2"	(2) 6" x 3 1/2" x 3/8" (LLV) w/ (1) 6" x 3 1/2" x 3/8" (LLV)	8" CMU Wall w/ Brick Veneer	See Detail 14/S1 & Bear 8" at Jamb
MH-4	13'-2"	(1) W8 x 28	8" CMU Wall w/ Brick Veneer	Steel Support - See Details 13/S1 & 15/S1



14 TYPICAL MASONRY WALL SUPPORT
Scale: 3/4" = 1'-0"



13 STEEL HEADER SUPPORT DET.
Scale: 3/4" = 1'-0"



16 FLR. JOISTS @ (E) MAS. WALL
Scale: 3/4" = 1'-0"