

FEMA P-320 SAFE ROOM CONSTRUCTION PLANS TAKING SHELTER FROM THE STORM: BUILDING A SAFE ROOM IN YOUR HOME OR SMALL BUSINESS *

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* SAFE ROOMS FOR SMALL BUSINESSES OR RESIDENTIAL USE WITH MORE THAN 16 OCCUPANTS ARE COMMUNITY SAFE ROOMS THAT HAVE ADDITIONAL REQUIREMENTS THAT THESE CONSTRUCTION PLANS DO NOT PROVIDE FOR. SEE SECTION 4.2 OF FEMA P-320 FOR FURTHER DETAILS.

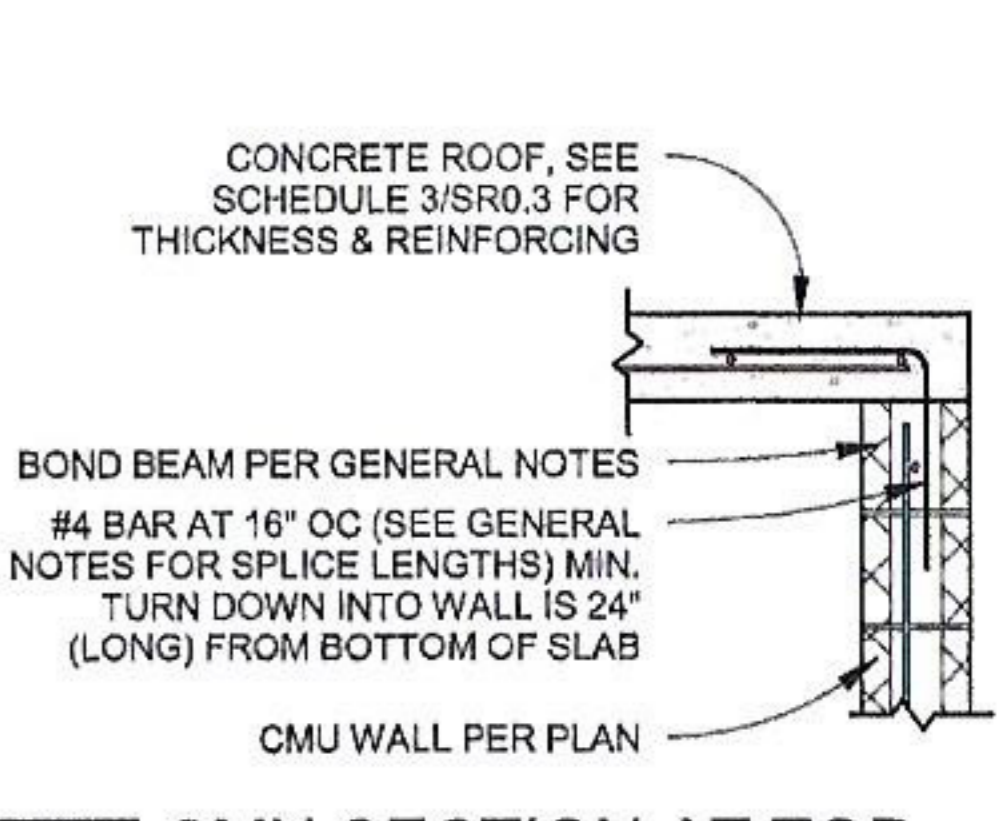
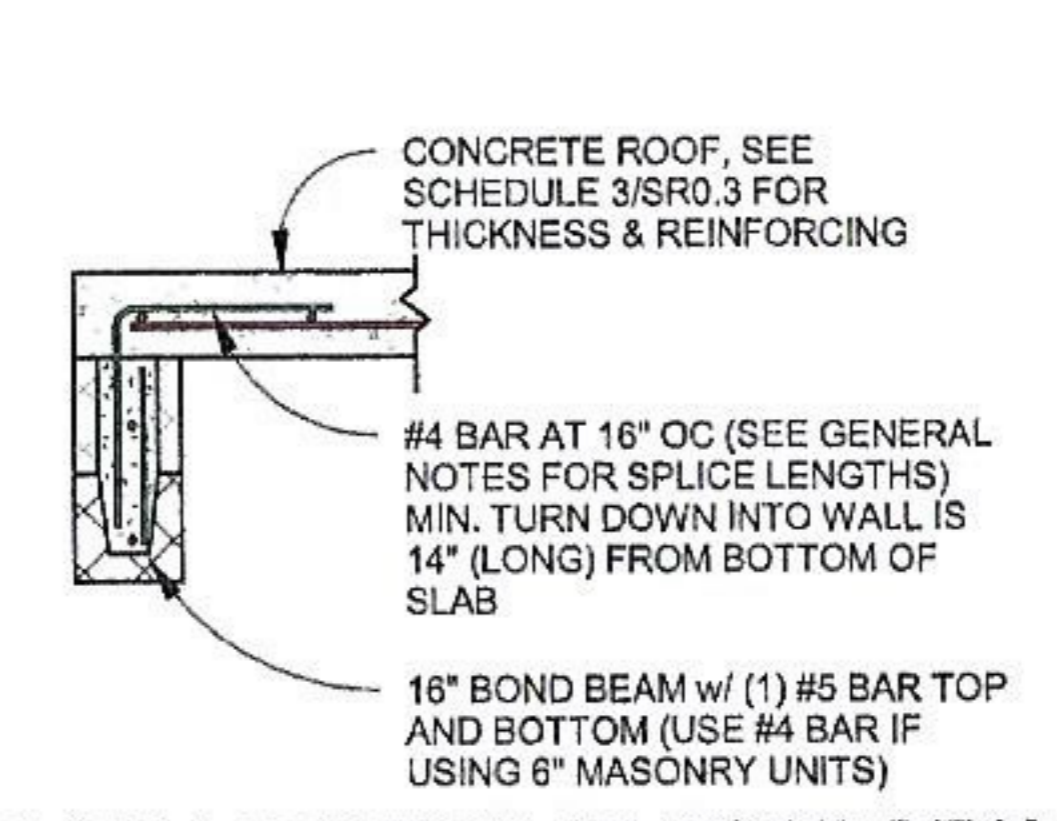
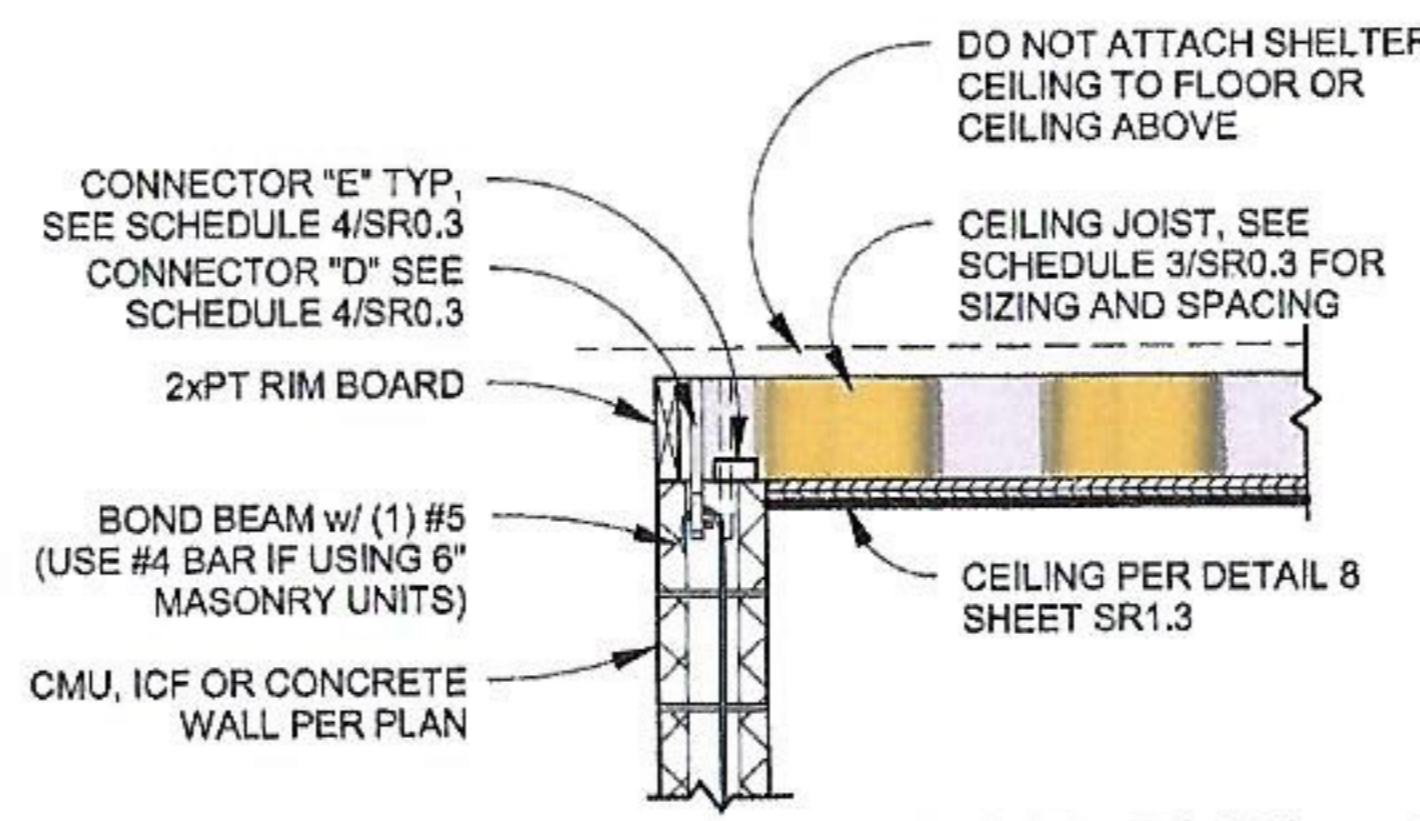
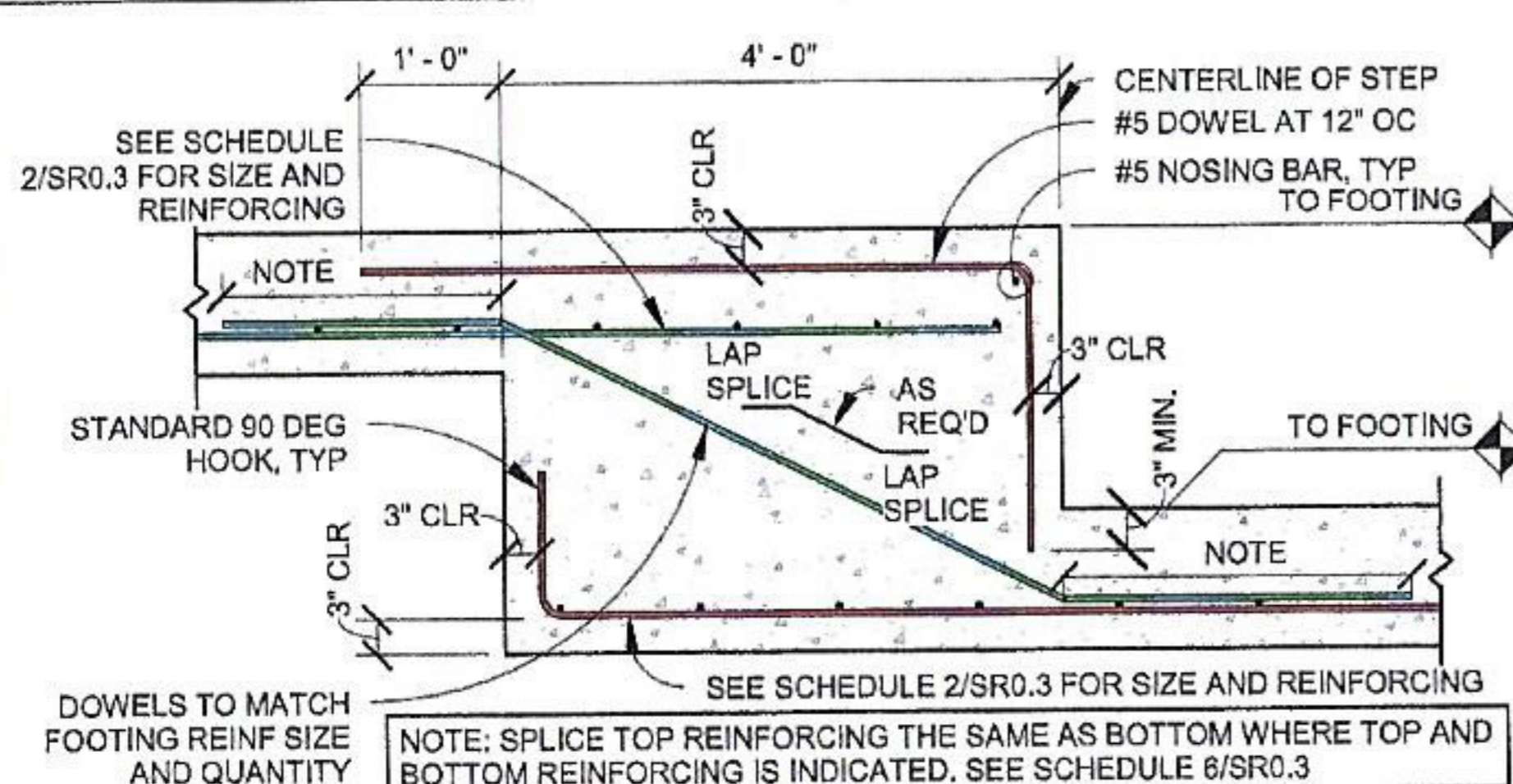
LIMIT OF LIABILITY

THE DESIGNS IN THIS BOOKLET ARE BASED ON EXTENSIVE RESEARCH OF THE CAUSES AND EFFECTS OF WINDSTORM DAMAGE TO BUILDINGS. SAFE ROOMS DESIGNED AND BUILT TO THESE STANDARDS SHOULD PROVIDE A HIGH DEGREE OF OCCUPANT PROTECTION DURING EXTREME WINDSTORMS (TORNADOES AND HURRICANES). ANY SUBSTITUTION OF EITHER MATERIALS OR DESIGN CONCEPTS MAY DECREASE THE LEVEL OF OCCUPANT PROTECTION AND/OR INCREASE THE POSSIBILITY OF PERSONAL INJURY DURING A SEVERE WIND EVENT.

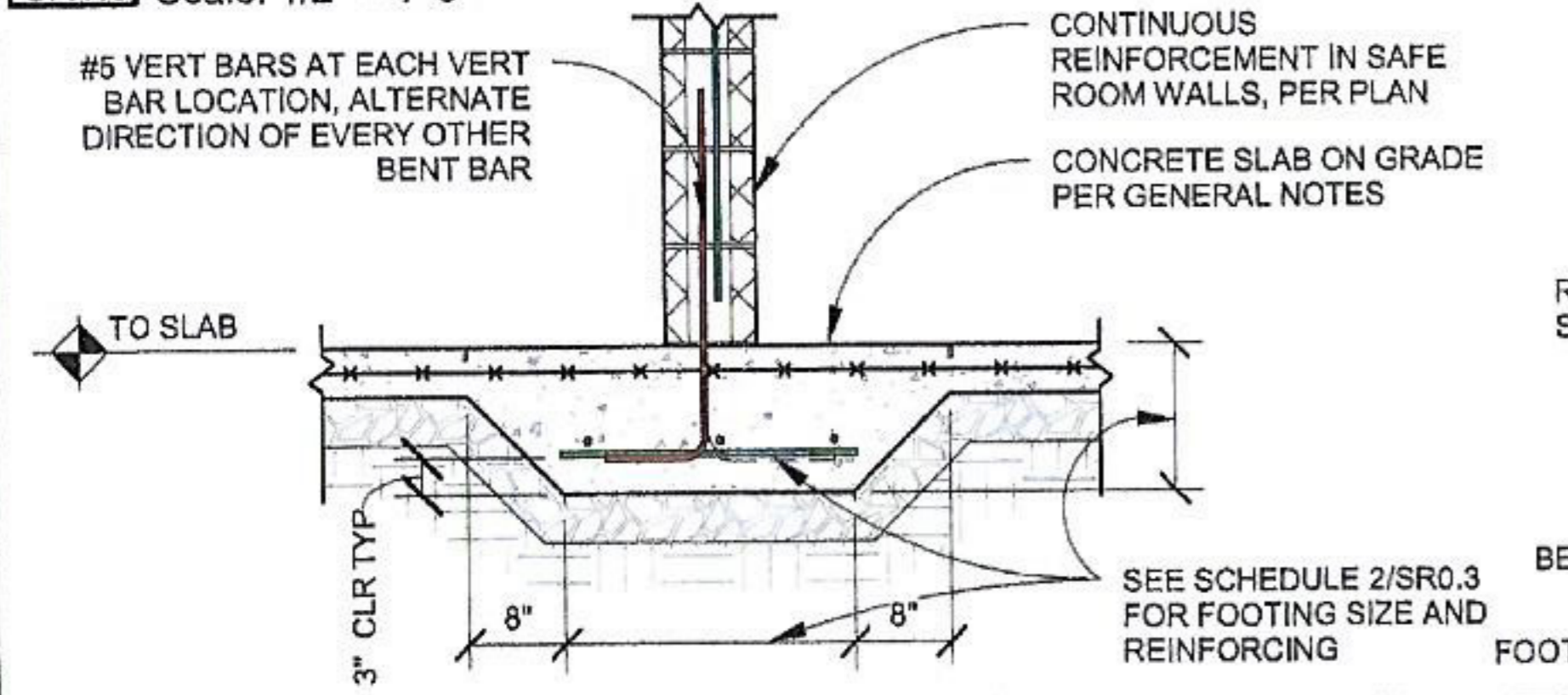
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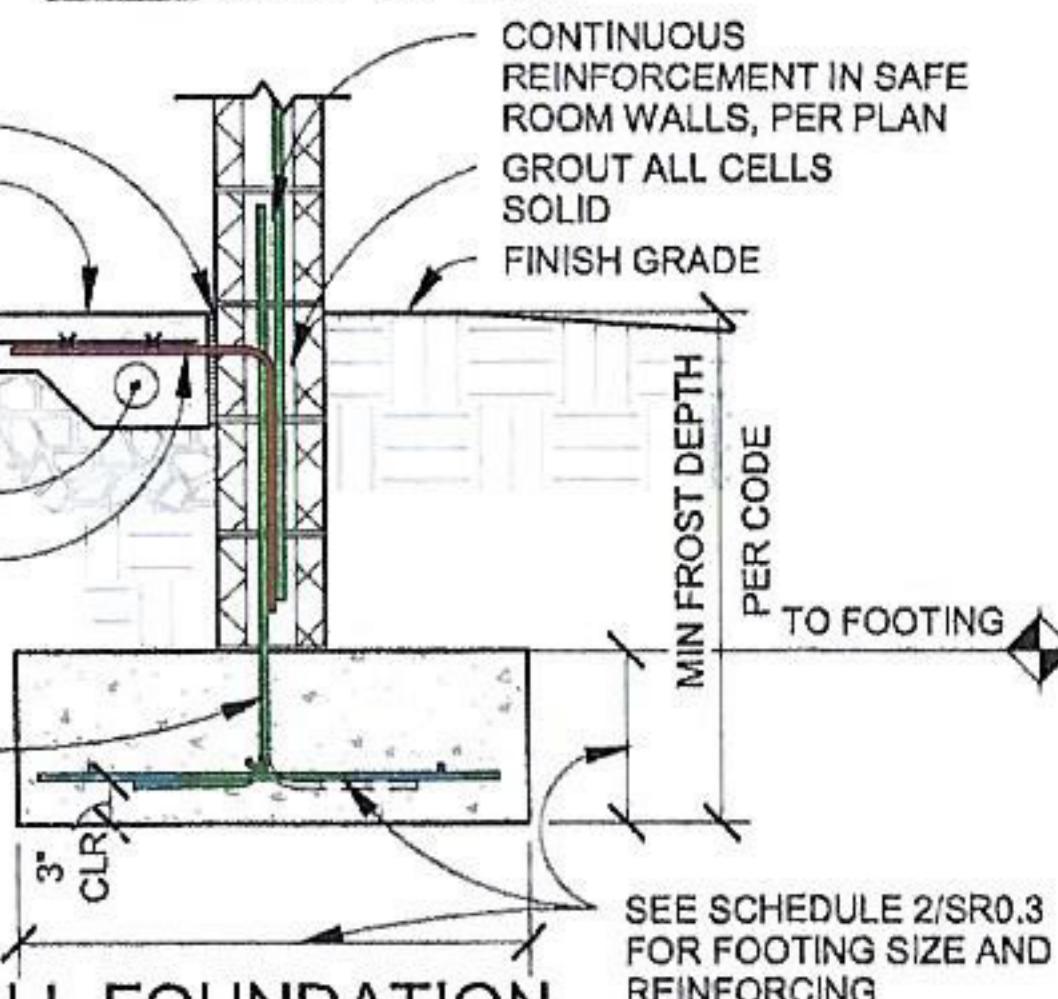
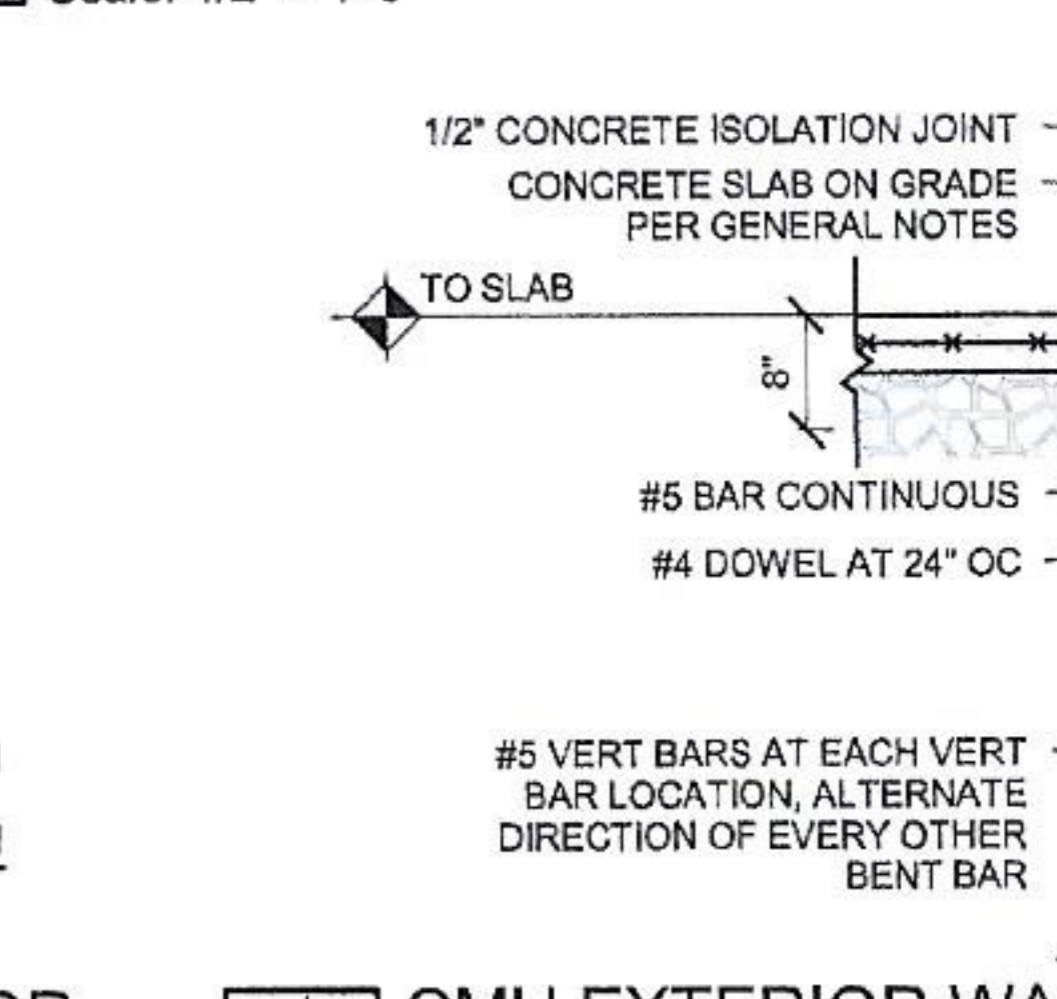
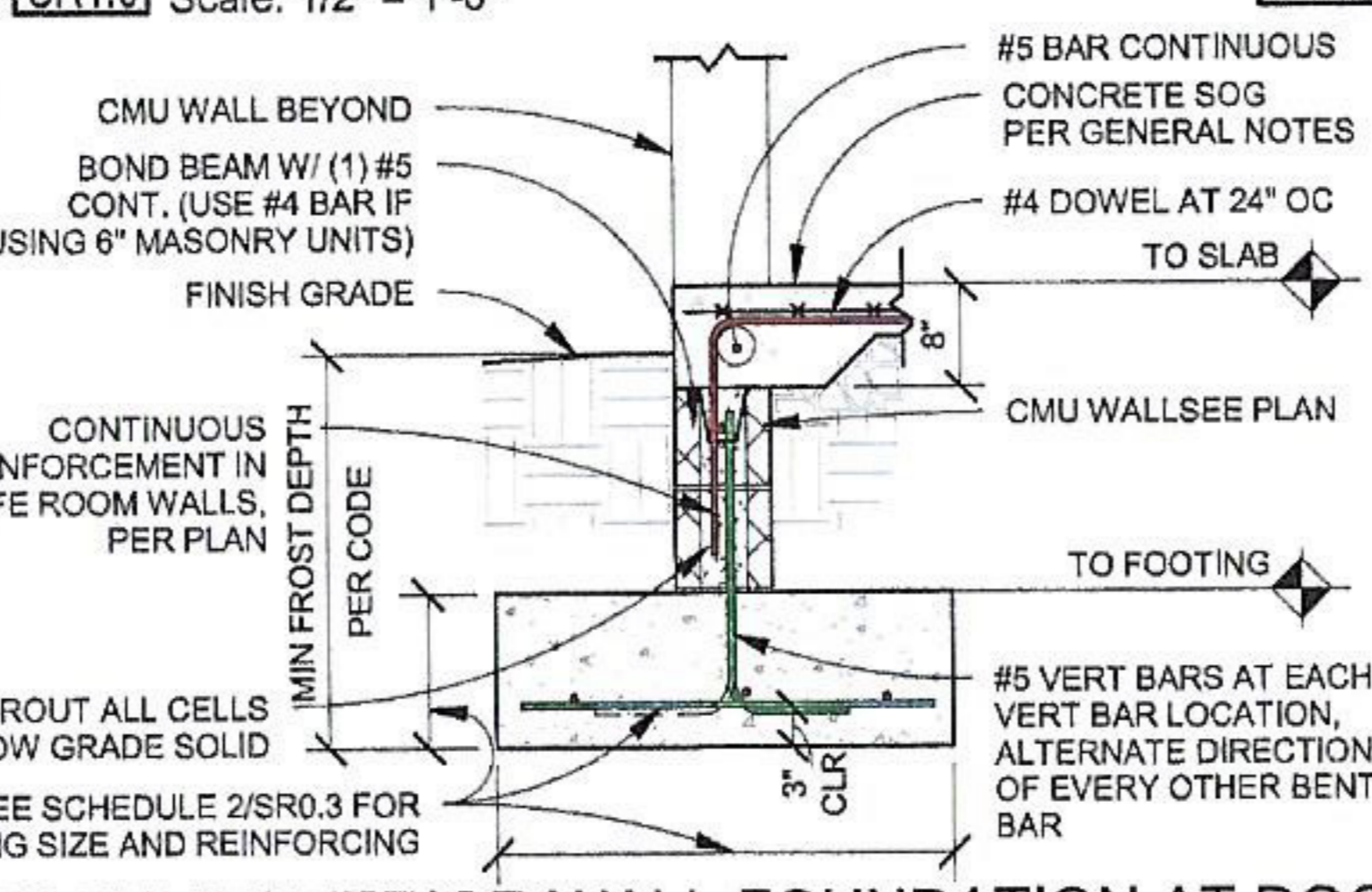
10 TYPICAL FOOTING STEP
SR1.0 Scale: 1/2" = 1'-0"



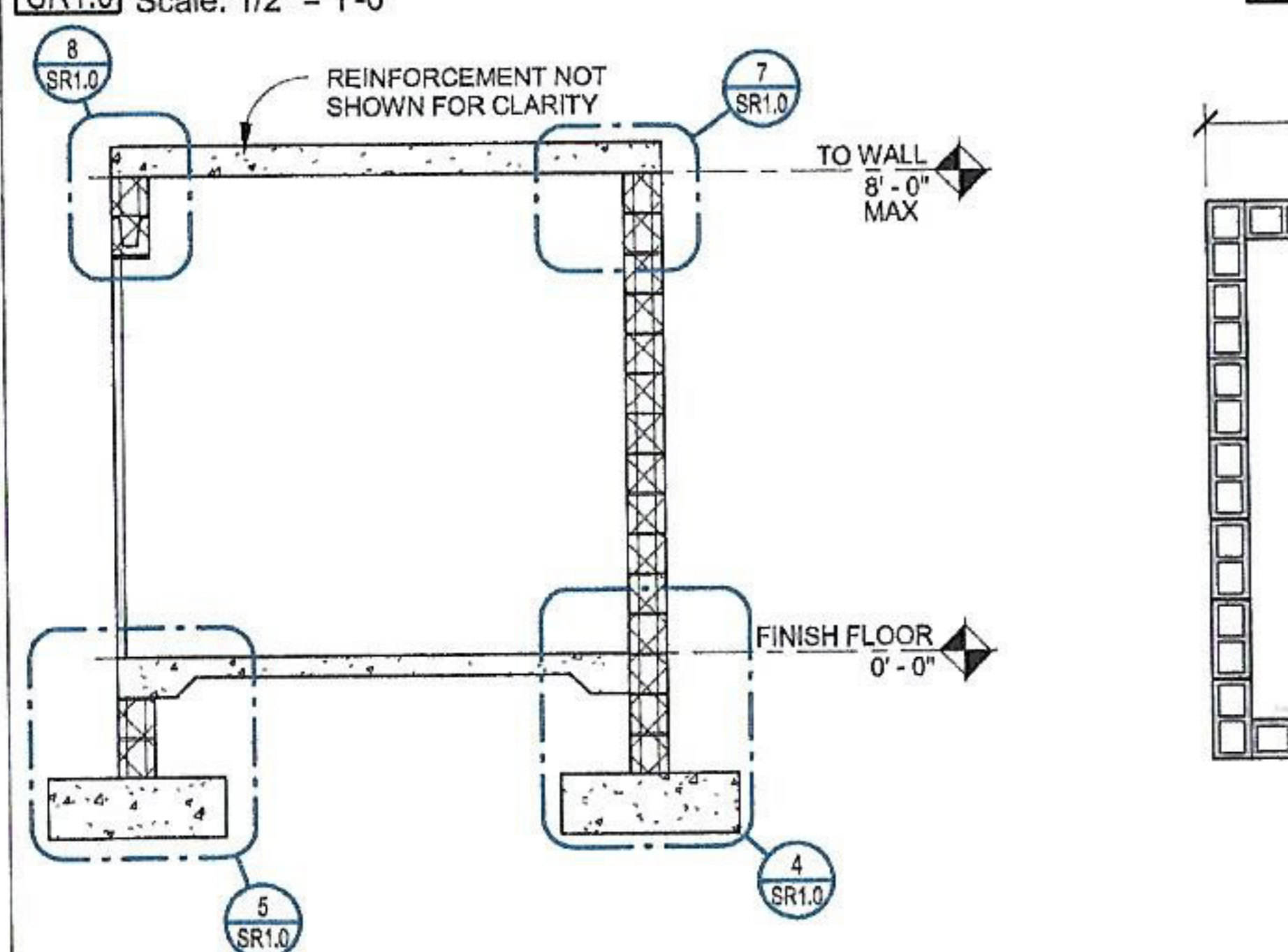
9 ALT WALL/CEILING CONNECTION
SR1.0 Scale: 1/2" = 1'-0"

8 CMU SECTION AT DOOR BEAM
SR1.0 Scale: 1/2" = 1'-0"

7 CMU SECTION AT TOP
SR1.0 Scale: 1/2" = 1'-0"



6 ALT CMU INTERIOR WALL THICKENED SLAB
SR1.0 Scale: 1/2" = 1'-0"



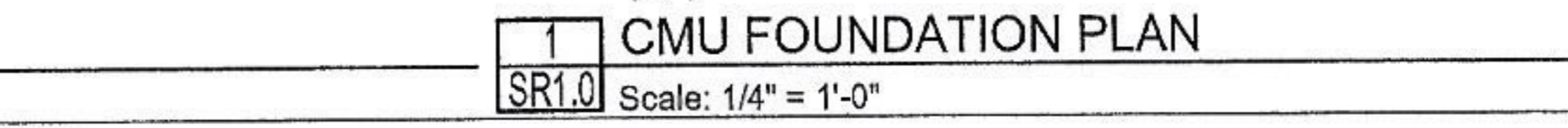
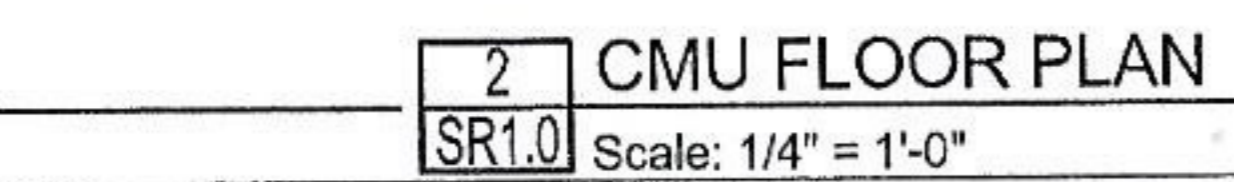
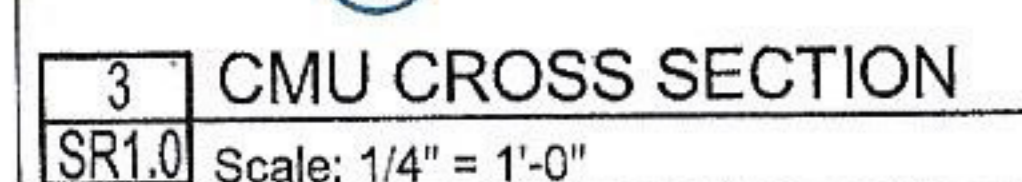
5 CMU EXTERIOR WALL FOUNDATION AT DOOR
SR1.0 Scale: 1/2" = 1'-0"

4 CMU EXTERIOR WALL FOUNDATION
SR1.0 Scale: 1/2" = 1'-0"

3 CMU CROSS SECTION
SR1.0 Scale: 1/4" = 1'-0"

2 CMU FLOOR PLAN
SR1.0 Scale: 1/4" = 1'-0"

1 CMU FOUNDATION PLAN
SR1.0 Scale: 1/4" = 1'-0"



NOTE:
1. FINISHED FLOOR ELEVATION SHALL BE LESS THAN 5 FT ABOVE LOWEST FINISHED ADJACENT GRADE ELEVATION
2. SEE SR0.3 FOR SCHEDULES

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