

TABLE NO. R404.1.1(2)(3)(4)

VERTICAL REINFORCING FOR BASEMENT WALLS SUBJECTED TO NO MORE SOIL PRESSURE THAN WOULD BE EXERTED BY AN EQUIVALENT FLUID HAVING A WEIGHT OF 35 POUNDS PER CUBIC FOOT(6).

WALL TYPE (1)	DISTANCE FROM TOP OF WALL TO GROUND SURFACE (2)	WALL THICKNESS (3)	VERTICAL WALL SPAN (4)	REQUIRED VERTICAL REINFORCING (5)	
MASONRY OR CONCRETE (1)	6' OR MORE	8"	8'-8" OR LESS	NO. 5 @ 40"	
			8'-0" OR LESS	NO. 5 @ 48"	
		10'	8"	8'-8" OR LESS	NO. 5 @ 48"
				8'-0" OR LESS	NO. 5 @ 56"
		12'	8"	8'-8" OR LESS	NO. 5 @ 56"
				8'-0" OR LESS	NO. 5 @ 64"
	16' OR MORE	8"	8'-8" OR LESS	NO. 5 @ 48"	
			8'-0" OR LESS	NO. 5 @ 56"	
		10'	8"	8'-8" OR LESS	NO. 5 @ 64"
				8'-0" OR LESS	NO. 5 @ 64"
24' OR MORE	8' OR MORE	8'-8" OR LESS	NO. 5 @ 64"		
48' OR MORE	8' OR MORE	8'-0" OR LESS	NONE REQ'd		

- (1) APPLIES TO HOLLOW UNIT MASONRY, OR SOLID CONCRETE WALLS.
- (2) THE TABLE APPLIES TO TYPICAL BASEMENT WALLS IN THOSE CASES WHERE THE GROUND LINE AT THE OUTSIDE FACE OF THE WALL IS ABOVE THE BASEMENT FLOOR SLAB. THE DISTANCE GIVEN IS TO BE MEASURED FROM THE TOP DOWNWARD TO THE GROUND SURFACE ELEVATION AFTER FINAL GRADING.
- (3) THE THICKNESS GIVEN ARE NOMINAL. THE ACTUAL WALL THICKNESS MAY VARY 3/8" LESS THAN NOMINAL.
- (4) THE TABLE APPLIES ONLY TO WALLS WHICH SPAN VERTICALLY BETWEEN LEVELS AT WHICH RESISTANCE TO INWARD MOVEMENT IS PROVIDED. IN THE CASE OF A TYPICAL BASEMENT WALL, THE RESISTANCE SHALL BE PROVIDED BY A FLOOR SLAB AT THE WALL AND BY ADEQUATELY ANCHORED FLOOR FRAMING AT THE TOP. SEE TYP. BLOCKING DETAIL, FIG. 404.1.1(5).
- (5) THE SIZE AND SPACING GIVEN IS BASED ON THE USE OF GRADE 60 REINFORCING BARS PLACED NOT MORE THAN 1-1/2" OR LESS THAN 1" FROM THE INSIDE FACE OF THE WALL (THE SIDE OPPOSITE THE EARTH). COMPLY WITH THE REQUIREMENTS OF SECTION R-609 IN CONSTRUCTION OF MASONRY WALLS.
- (6) WALLS WHICH DO NOT FALL WITHIN THE LIMITATIONS GIVEN SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES.

GENERAL NOTES

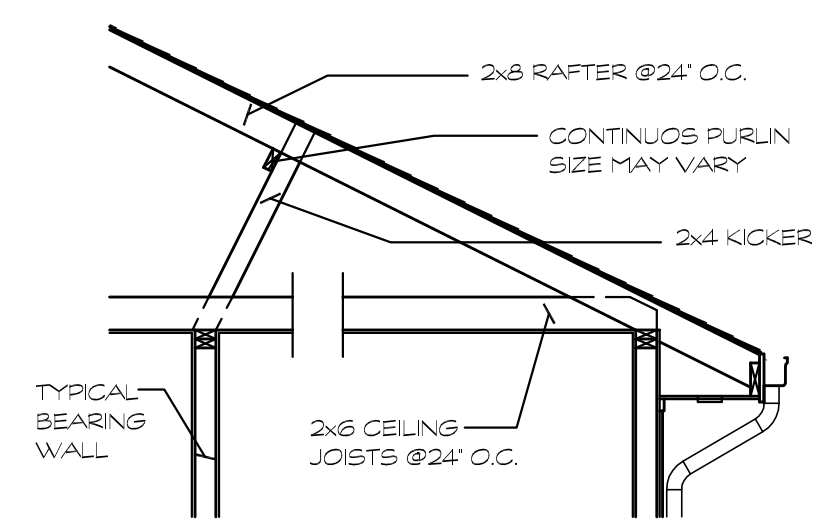
- 1. FOOTING WIDTHS MUST BE AT LEAST TWICE FOUNDATION WALL THICKNESS. TWO STORY BRICK VENEER MUST HAVE MIN. 20" WIDE FOOTING.
- 2. ANCHOR BOLT SPACING: 6'-0" MAX. OR THE SAME AS REBAR SPACING WHICHEVER IS LESS
- 3. MIN. THICKNESS OF ANY SLAB ON GRADE SHALL BE 3-1/2"
- 4. FOUNDATIONS SHALL EXTEND NO LESS THAN 12" BELOW FLOOR SLABS.
- 5. FOOTING SIZES ARE BASED ON SOIL WITH AN ALLOWABLE SOIL PRESSURE OF 1500 POUNDS PER SQUARE FOOT. FOOTINGS ON SOIL WITH A LOWER ALLOWABLE SOIL PRESSURE SHALL BE DESIGNED ACCORDANCE WITH GOOD ENGINEERING PRACTICE.

STAIR NOTES

- 1. TOP OF GUARDRAILS SHALL NOT BE LESS THAN 36 INCHES IN HEIGHT.
- 2. TOP OF HANDRAILS AND HANDRAIL EXTENSIONS SHALL BE PLACED NOT LESS THAN 34 INCHES OR MORE THAN 38 INCHES ABOVE NOSING OF TREADS AND LANDINGS. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS.
- 3. OPEN HANDRAILS AND GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT A SPHERE 4 INCHES IN DIAMETER CANNOT PASS THROUGH.

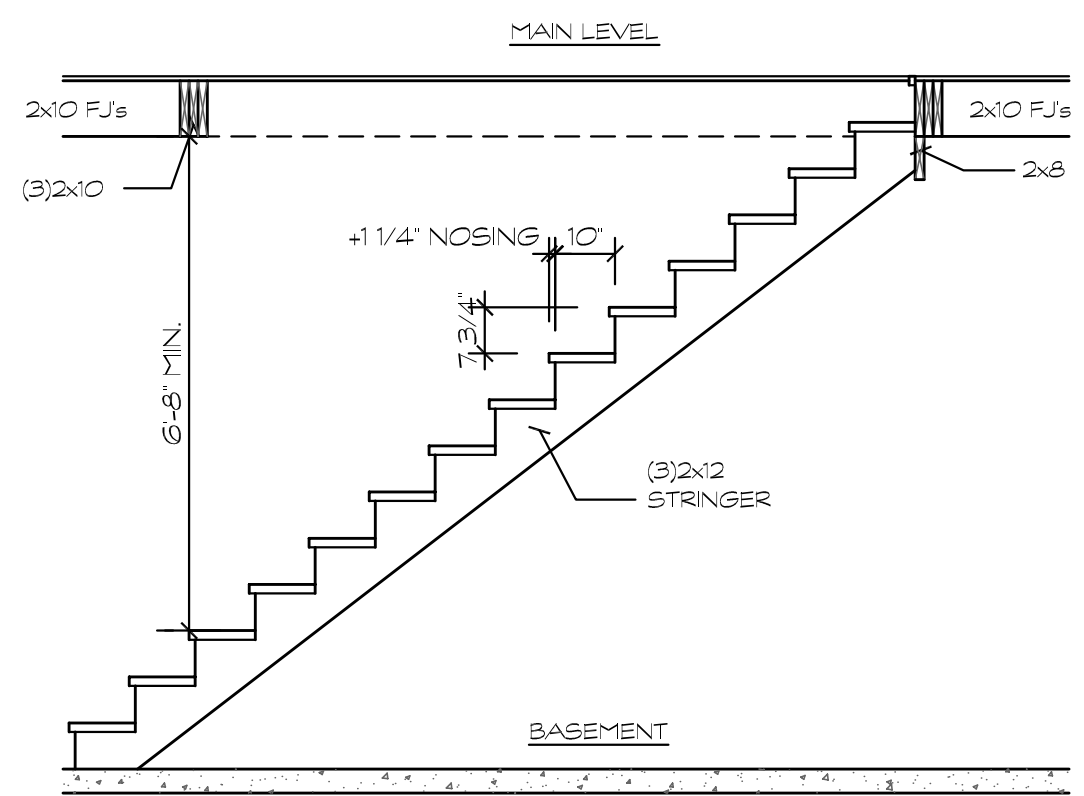
ALLOWABLE RAFTER SPAN BASED ON SIZE OF ROOF PURLIN

SIZE OF ROOF PURLIN BRACED @4'-0" O.C.	MAXIMUM ALLOWABLE RAFTER SPAN	
	30 LBS. PER SQ. FT. L.L. & D.L.	40 LBS. PER SQ. FT. L.L. & D.L.
2x4	5'-0"	3'-6"
2x6	11'-6"	8'-6"



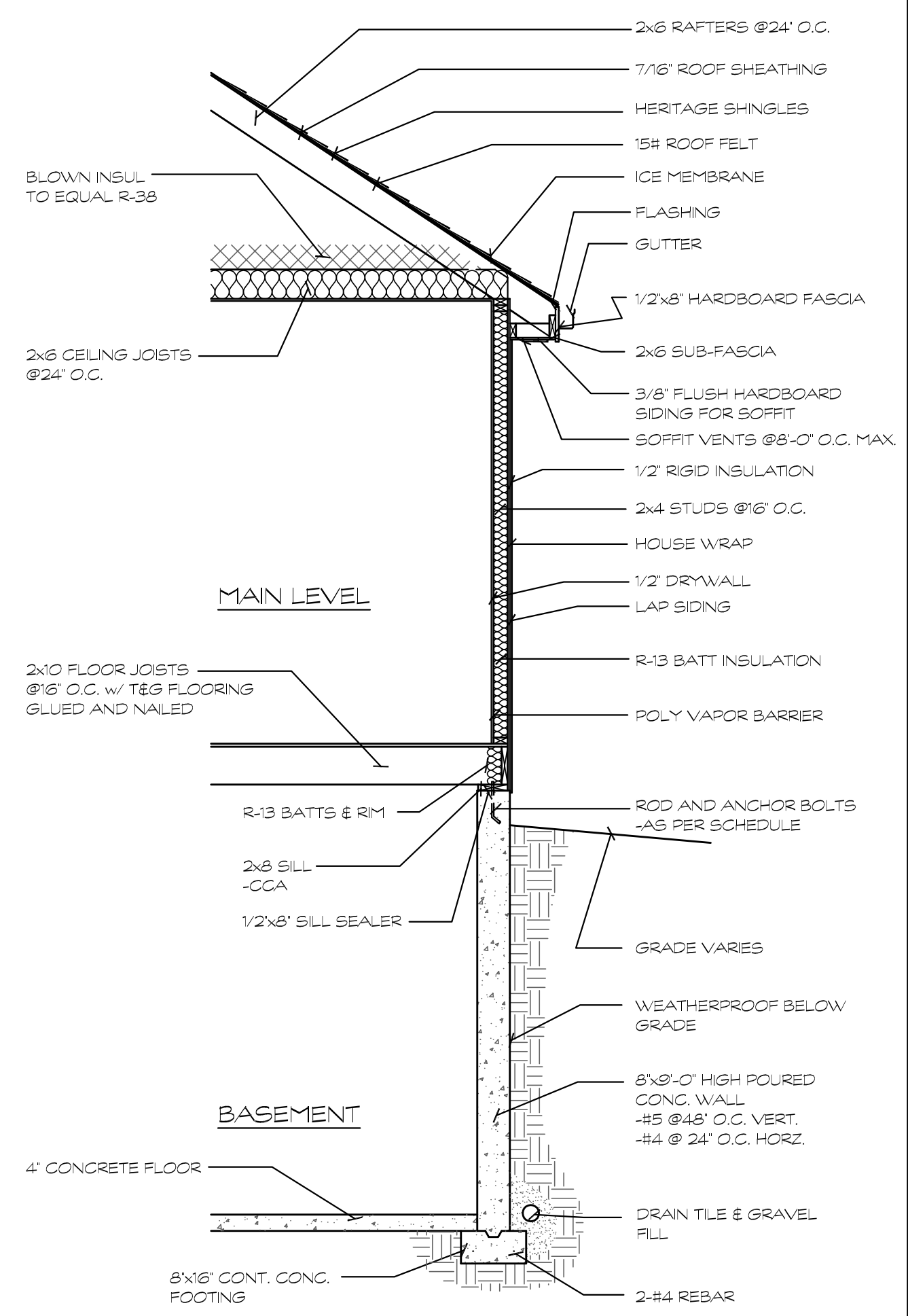
1 PURLIN DETAIL

SCALE: 3/8" = 1'-0"



2 STAIR SECTION

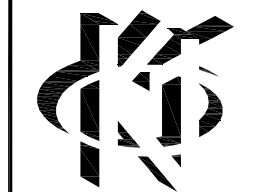
SCALE: 3/8" = 1'-0"



3 WALL SECTION

SCALE: 3/8" = 1'-0"

KEN TINNES RESIDENTIAL DESIGN



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