

# Residential Wall Section (Crawl Space)

Kandiyohi County Building Department (2006 IRC)

Manufactured trusses (provide a minimum 35 psf snow load). Provide copies of the roof truss drawings from the manufacturer.

Asphalt shingles, 15 pound felt, roof sheathing with spacer clips.

In a re-roofing application, the existing roof covering must be removed prior to the application of the new roofing material.

Ice and water barrier is required 24 inches beyond the exterior wall line.

Provide attic ventilation at a rate of one sq/ft per 300 sq/ft equally split at the ridge and eave.

Metal drip edge and fascia board.

Continuous vented soffit material.

Rigid windwash barrier must go to the underside of the truss top cord.

Headers must be sized to carry all loads.

Pan flashing is required under all exterior doors and windows.

7/16 inch wall sheathing minimum.

Siding: Vinyl siding allows for a maximum stud spacing of 16 inches on center including the gable ends. (Order the gable end rafters accordingly).

The rim joist must be insulated to a minimum R-10 (use foil faced foam or provide a sealed vapor barrier over the fiberglass insulation).

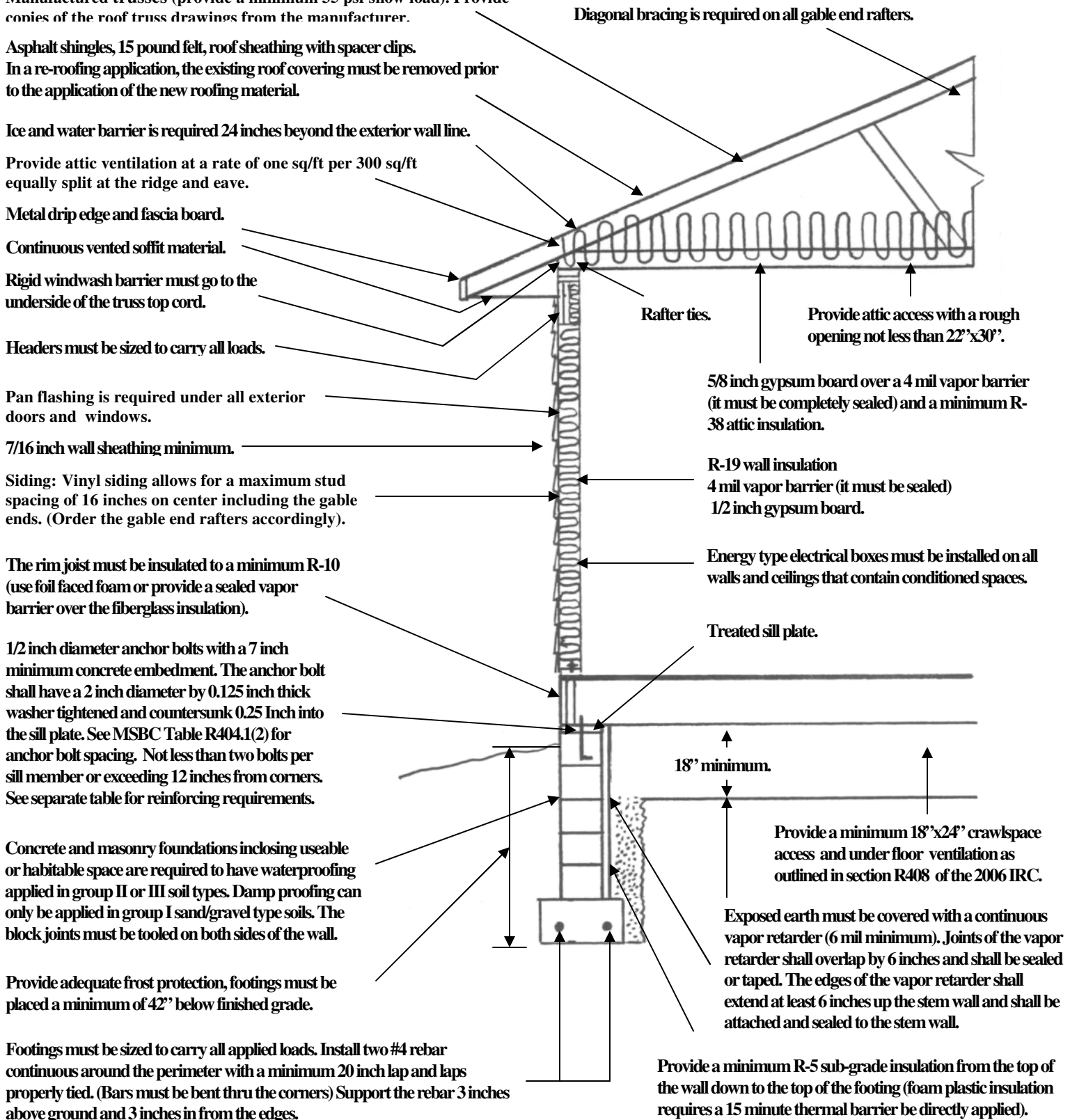
1/2 inch diameter anchor bolts with a 7 inch minimum concrete embedment. The anchor bolt shall have a 2 inch diameter by 0.125 inch thick washer tightened and countersunk 0.25 inch into the sill plate. See MSBC Table R404.1(2) for anchor bolt spacing. Not less than two bolts per sill member or exceeding 12 inches from corners. See separate table for reinforcing requirements.

Concrete and masonry foundations inclosing useable or habitable space are required to have waterproofing applied in group II or III soil types. Damp proofing can only be applied in group I sand/gravel type soils. The block joints must be tooled on both sides of the wall.

Provide adequate frost protection, footings must be placed a minimum of 42" below finished grade.

Footings must be sized to carry all applied loads. Install two #4 rebar continuous around the perimeter with a minimum 20 inch lap and laps properly tied. (Bars must be bent thru the corners) Support the rebar 3 inches above ground and 3 inches in from the edges.

Diagonal bracing is required on all gable end rafters.



Provide attic access with a rough opening not less than 22'x30'.

5/8 inch gypsum board over a 4 mil vapor barrier (it must be completely sealed) and a minimum R-38 attic insulation.

R-19 wall insulation  
4 mil vapor barrier (it must be sealed)  
1/2 inch gypsum board.

Energy type electrical boxes must be installed on all walls and ceilings that contain conditioned spaces.

Treated sill plate.

18' minimum.

Provide a minimum 18'x24' crawlspace access and under floor ventilation as outlined in section R408 of the 2006 IRC.

Exposed earth must be covered with a continuous vapor retarder (6 mil minimum). Joints of the vapor retarder shall overlap by 6 inches and shall be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches up the stem wall and shall be attached and sealed to the stem wall.

Provide a minimum R-5 sub-grade insulation from the top of the wall down to the top of the footing (foam plastic insulation requires a 15 minute thermal barrier be directly applied).

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