Order manufactured lumber in 2 foot length increments. Check price for 42' pieces. Shorter pieces might be same price.

Roof Rafters: I-beam: 1 3/4 x 11 7/8 Ridge: I-beam: 2 5/16 x 9 1/2

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## Dimensions:

Roof Area: 1341 ft2

Rake edge: 19 19 18 8 11 11 18 18 17 17 = 156 ft

Drip edge: 15 10 12 7 8 shortPieces = 52 + 15 = 67 ft

Valley Length: 23' 22' 22' 17'= 84 ft Ridge Cap Length: 29' 24' 15'= 68 ft

## Ridge Beam Length:

Rough length Actual length

26' Left Ridge Beam: 23' 7 7/8"

16' Right Ridge Beam: 14' 2"

32' Front to Back Ridge Beam: 28' 4"

Ridge beam top bevel, laminated and glued.

10 pieces, 1 1/4" x 2 1/2" x 8', bevel layer

10 pieces, 1 1/4" x 2 1/2" x 8', base layer

16 ridge beam plywood web filler plates (2 5/16 - 3/8) / 2 = 0.96875
Use double thick 1/2" plywood.
These plates fill-in end of I-beam.

5/8" plywood web filler plates for bottom end of I-beam rafters. Think about this.

Valley Framing Ledgers for Rafter Overlay Width is 1' 4 5/16", thickness is 1 1/2" Use a triple layer of 1/2" plywood to make a ledger plate where valley rafters overlap. Make all three layers the same width. Or make parallel rails from 2x3s, 2x4s, or 5/4 decking material. Think about this.

Stainless Chimney Pipe from Basement: or install direct vent gas furnace in current location.

DuraVent, DuraTech, Double Wall, Insulated ID: 6", OD: 8" Length: 23' 7" plus cap 4 sections 60", 1 1/4" overlap, 6DT-60SSCF,810000091

Stainless Chimney Pipe from Second Floor:

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## Wood Shingles in Basement

145 rows 100 inches wide 5" exposure per shingle 2 shingles per row ==> 10" exposure per row 100 x 10 = 1000 in2 per row 145000 in2 / 144 = 1000 ft2