NON-ENGINEERED POLE BUILDING REQUIREMENTS

Building Area- Max. 864 square feet

Post Height- Max. 10 feet above grade

Post Spacing- Max. 12 feet on center

Post Size- 6 x 8 pressure treated (PT) for ground contact
6 x 6 PT post @ corners & gable walls

Post Holes- 24” in. diameter by 4’-0” deep into UNDISTURBED soil

Footings- 24” x 6” thick poured concrete
option: (2) unopened sacks of concrete mix placed in posthole and saturated with water prior to post placement

Backfill- Clean earth surrounding posts compacted to 90%, moisture content n.t.e. 10%

Girts- 2 x 6 wall girts @ 24” o.c; 2 x 6 wind girts @ 48” o.c.

Roof Purlins- Minimum 2x6 DF#2 @ 24"o.c., overlapped 1’ at supports with (3) 16d nails, connected to 2x6 truss blocks with (3) 16d nails on each side.

Trusses- Must be engineered/manufactured, spanning not more than 36’. Connect to posts with (1) hot-dipped galvanized 3/4” through bolt, support truss on 18” 2 x 6 or 2 x 8 block connected to post with (2) hot-dipped galvanized 3/4” through bolts. Truss bracing, web stiffeners, rat-runs, etc. to be specified by engineer and installed per specifications. Engineered truss specifications shall provided to inspector on-site at the time of framing inspection.

*Mason County contains 4 snow load zones, trusses must be designed per site conditions*

Engineering is required for pole buildings when the proposed structure:
-exceeds 864 square feet in area
-has a post height of more than 10’
-is in an area with a wind exposure other than ‘B’
-is constructed using methods other than those outlined in this document

Engineering documents shall include both lateral and vertical analyses, prepared and stamped by a Washington State Licensed Structural Engineer or Architect. Requirements of the analyses shall be transferred onto the construction plans and submitted for review along with supporting calculations.
TYPICAL POLE BUILDING CROSS SECTION

MAX. AREA = 864 Square Feet
MAX. TRUSS SPAN = 36’
MAX. POST SPACING = 12’
MAX. POST HEIGHT = 10’

2 x 6 BLOCKS @ 24” O.C.
(size depending upon snow load/parcel location, see below)

2 x 4 BRACING
as required by truss engineer

2” x 6/2 x 8 BLOCK EACH SIDE OF POST

MANUF. TRUSSES
(1) each side of post

(3) 16d - EACH CONNECTION

3” BOLT CLEARANCE FROM
ENDS OF BLOCK

2 x 6 DF #2 WALL GIRT @ 24” O.C.
6 x 8 PT POST
6 x 6 pt post @ corners & gable walls

2 x 6 WIND GIRT @ 48” O.C
edge nail wind girt to wall girt w/16d @ 24” o.c.
toenail wind girt to post w/ (4) 16d @ each end

29 G. (NOT)
29 GAUGE WALL METAL
not shown

(2) 12 MIN. (2) 16d AT Post

18” 2 x 6

GRAD
GRADE

6” POURED CONCRETE PAD
option: (2) unopened sacks of concrete mix placed in post hole, saturate with water prior to post placement

PURLIN SIZE
varies depending upon snow load:
25# snow load – 2x8 HF#2 or better
35# Snow load – 2x8 HF#2 or better
55# Snow Load: 2x10 HF#2 or better

TAMPED EARTH
backfill postholes with clean earth compacted to 90%; moisture content n.t.e. 10%

29 G. (NOT)
29 GAUGE ROOF METAL
not shown

2 x 6 BLOCKS @ 24” O.C.

(2) 16d - PURLINS TO BLOCK

16d A
NAIL
(3) each post

2x6 f

16d A
NAIL
(3) each post

16d A
NAIL
(3) each post

6x6 f

6x6 f

6x6 f

6x6 f

6x6 f

6x6 f

6x6 f

6x6 f

6x6 f