Post Frame Buildings

Submit the Building Permit Application with the following details:

1. **Size of Footings**. Show details and calculations.
   a. The diameter of the footing must be large enough to transfer the load to the soil without sinking.
      1. A 24' wide building with posts 8'oc will result in 5,000 lbs of roof weight (Holland) and 500 lbs of wall dead weight for a total of 5,500 lbs on a single pole. ***Note that this is without wind loads added!***
      2. A 16" diameter round footing has 1.395 square feet of surface area and can only transfer 2,790 lbs in average soils. (22" needed in 2,000 lb soil in the above example.)
      3. A 16" footing will work for poles at 4'oc in the above example.
   b. Inadequate footing diameter is the most common error in post frame building design.
      1. Precast footings and dumping a bag of dry mix in the hole will often work for small decks but not on post frame buildings.

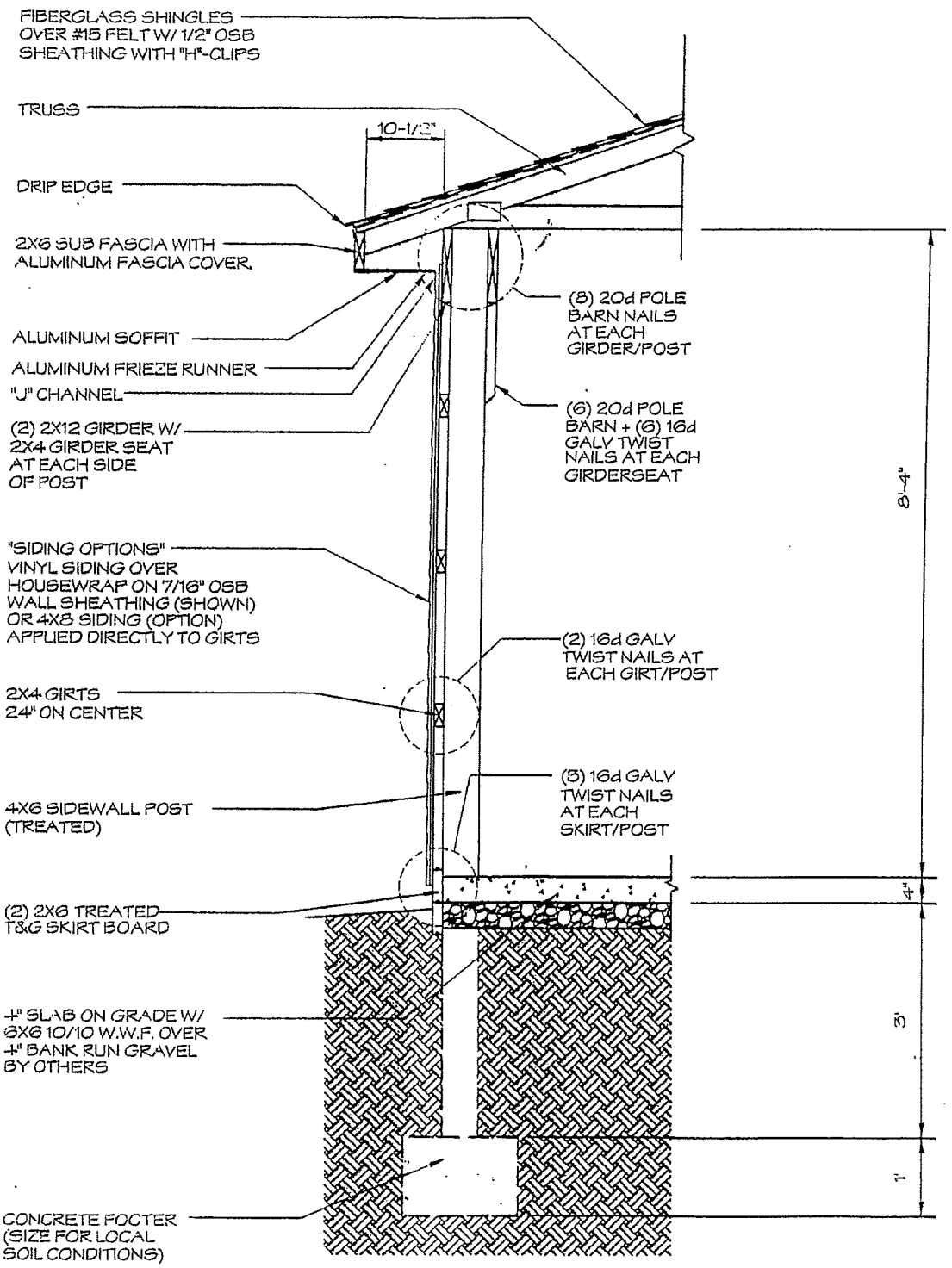
2. **Spacing of Footings.**

3. **Sizing of girders.**

4. **Type of Roof.**
   a. Shingles or metal
   b. Truss spacing and snow load

5. **Inspections.**
   a. Inspections are required as a service to the contractor and are required for all post framed buildings.
   b. Footing or pier hole inspections are required before concrete is placed.
   c. A separate framing (rough in) inspection is required. If framing connections cannot be easily inspected during rough in inspection, a separate inspection is required.
   d. A final inspection is required after all the work has been completed.

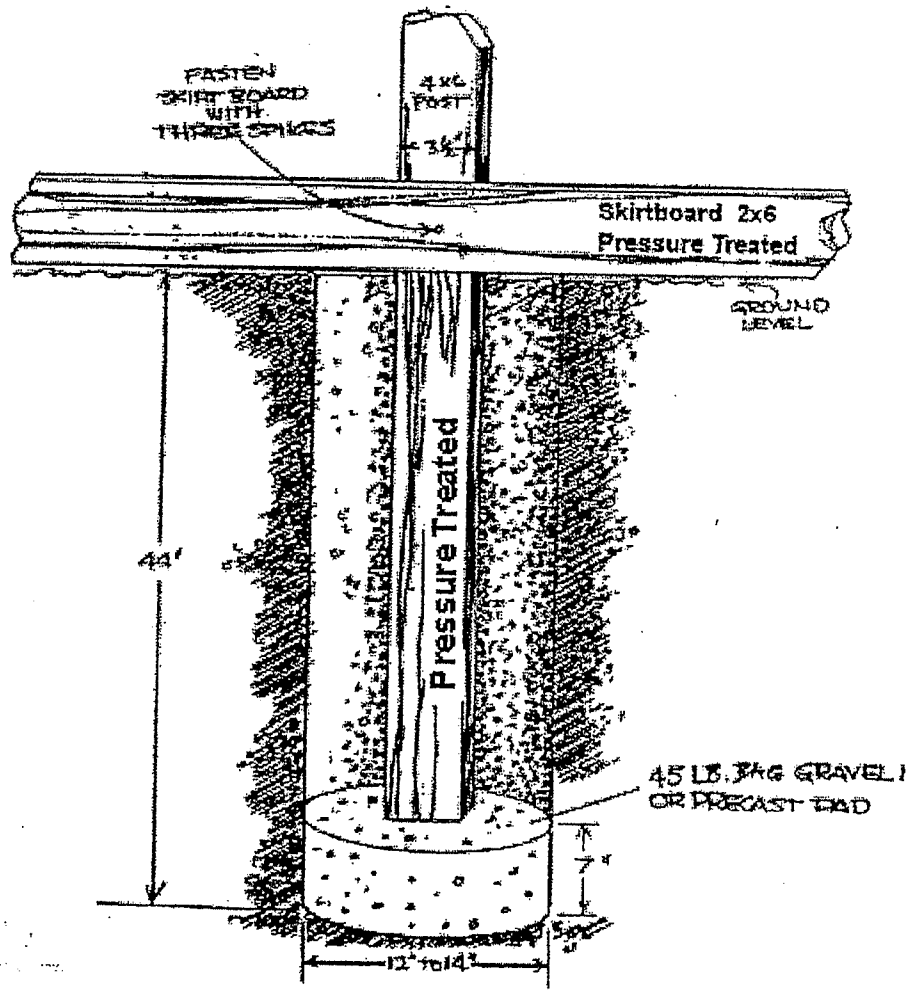
Call 48 hours in advance to schedule an inspection. The builder / contractor is not required to be present for the inspections but are welcome.



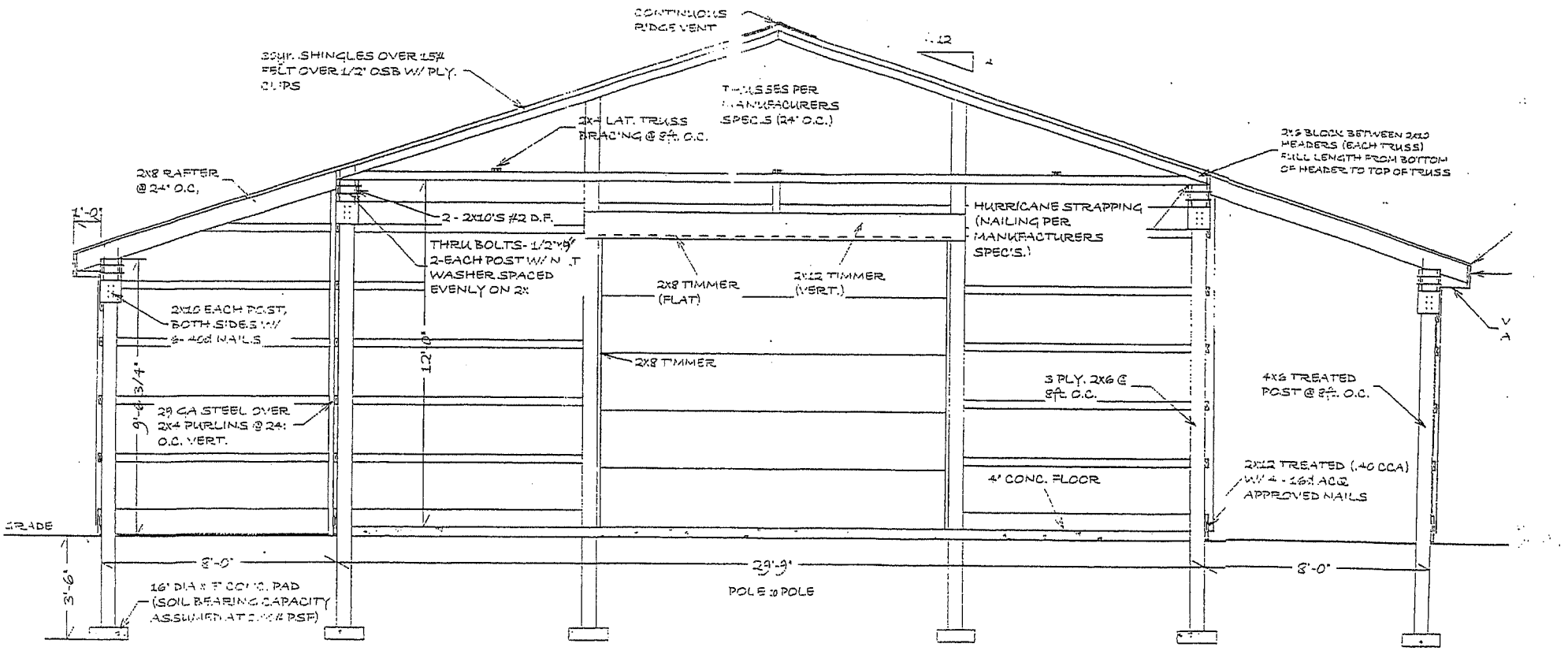
NOTE:
USE 22" DIAMETER X 12" THICK CONCRETE FOOTER W/SHINGLE ROOF, 30 PSF LIVE LOAD AND 2000 PSF SOIL BEARING

Wall Section

POST IN GROUND



Note:
It's necessary to set post below ground if you live in an area where the ground freezes. You then must set footing below frost line.


CONTINUOUS RIDGE VENT
30yr. SHINGLES OVER 15# FELT OVER 1/2" OSB W/ PLY. CLIPS
TRUSSES PER MANUFACTURERS SPEC.S (24" O.C.)
2x4 LAT. TRUSS BRACING @ 8ft. O.C.
2x8 RAFTER @ 24" O.C.
2x8 BLOCK BETWEEN 2x10 HEADERS (EACH TRUSS) FULL LENGTH FROM BOTTOM OF HEADER TO TOP OF TRUSS
2 - 2x10'S #2 D.F.
HURRICANE STRAPPING (NAILING PER MANUFACTURERS SPEC'S.)
THRU BOLTS- 1/2"ø 2-EACH POST W/ N .T WASHER SPACED EVENLY ON 2x
2x8 TIMMER (FLAT)
2x12 TIMMER (VERT.)
2x10 EACH POST, BOTH SIDES W/ 8- 40d NAILS
12'-0"
2x8 TIMMER
3 PLY. 2x6 @ 8ft. O.C.
4x6 TREATED POST @ 8ft. O.C.
29 GA STEEL OVER 2x4 PURLINS @ 24" O.C. VERT.
4" CONC. FLOOR
2x12 TREATED (.40 CCA) W/ 4 - 16d ACQ APPROVED NAILS
GRADE
8'-0"
29'-9"
8'-0"
POLE TO POLE
16" DIA x 3' CONC. PAD (SOIL BEARING CAPACITY ASSUMED AT 2,000# PSF)