Building Department

Sample Residential Storage Shed / Shop Drawings

General Project Submittal Information

- Three (3) sets of site plans
- Two (2) sets of erosion control plans (if required)
- Three (3) sets of structural plan
- Zoning worksheet and calculations (contact the zoning department at 503-786-7630 for more information)

- Required permits and worksheets:
  - Building Permit
  - Plumbing Permit (roof drains)
  - Electrical Permit (if applicable)
  - Erosion Control Permit (if applicable)
  - Zoning Work Sheet and calculations
Design Criteria:

- 80 MPH Wind, Exposure “B”
- 40 PSF Roof Snow Load
- 1400 Ft Elevation Maximum
- Seismic Zone 3

Construction Notes:

1. Verify all set backs to property lines with Planning Department 503-786-7630.
2. Shed / shop shall be a minimum of 6’ – 0” set back from other buildings.
3. Maximum wall height is 10’ – 0”. Use full height studs.
4. Gable end roofs shall not have a slope greater than 8:12 or less than 3:12.
5. Shed roofs, slopes shall not be less than ¼” : 12” and a maximum of 3:12 pitch.
6. Anchor bolts shall be a 1/2” x 10” with 7” embedment. A. bolts shall be a Maximum of 6’ – 0” OC, with one bolt within 12” of the end of each plate. A minimum of two A. bolts per plate.
7. Doors and windows may be placed anywhere between the brace panels (BP) Or alternate brace panels (ABP). No doors or windows shall be installed in Or encroach into a brace panel.
8. Roof coverings on roofs with less than 2:12 slope shall be roll roofing. Roof Slopes of 2:12 and greater may use composition shingles or roll roofing. Metal roofing may be used. Install 15 lb. Roof felt under all roof coverings. Use two layers of 15 lb. Roofing felt when roofs slope is less than 4:12. Off set lapping layers by 18 inches.
9. Exterior landing shall not be more than 8” below the top of the exit door threshold.
Building Department - Storage Shed / Shop

Alternate Wood Floor Plan

Double rim joist where floor joist are parallel to foundation.

Floor Joist Design

Foundation

Decks

Place 90lb. felt or asphalt shingle under beam/girder.

Post and Beam Design

Provide ½" air space between sides/end of girder & foundation.

Detail

1/4" tongue & groove plywood

6 Mil. vapor barrier (black visqueen)

Vapor Barrier

Place 90lb. felt or asphalt shingle under post

Sheet 3 of 4
**Building Department - Storage Shed / Shop**

**BRACE PANEL (BP)**

- **EDGE BLOCKING**
  - USE A MIN. OF 1/2" APA RATED SHEATHING, OR 9/16" APA RATED TI-II.
  - BLOCK ALL PANEL EDGES.
  - SEE DETAILS BELOW FOR NAILING TI-II PANEL EDGES.
  - NAIL: 8d x 6" on 12" O/C

- **TI-II NAILING DETAIL & PANEL EDGE OF BRACE PANEL**

**ALTERNATE BRACE PANEL (APB)**

- **EDGE BLOCKING**
  - MIN. 3/8" PLYWOOD OR 7/16" OSB ON ONE SIDE.
  - BLOCK ALL EDGES.
  - NAIL: 8d x 6" on 12" O/C

- **SIMPSON H22A w/ SST816 ANCHOR BOLT OR LSTHEB STRAP... OR EQUIVALENT (USE PER MANUFACTURER)**

- **(2) 4 x 10" HORIZONTAL REBAR IN THE FOOTING W/ #4 VERTICAL REBAR 36" O/C EXTENDING FROM FOOTING THROUGH THE WALL.**