

**INTERMEDIATE  
BRACE PANEL**

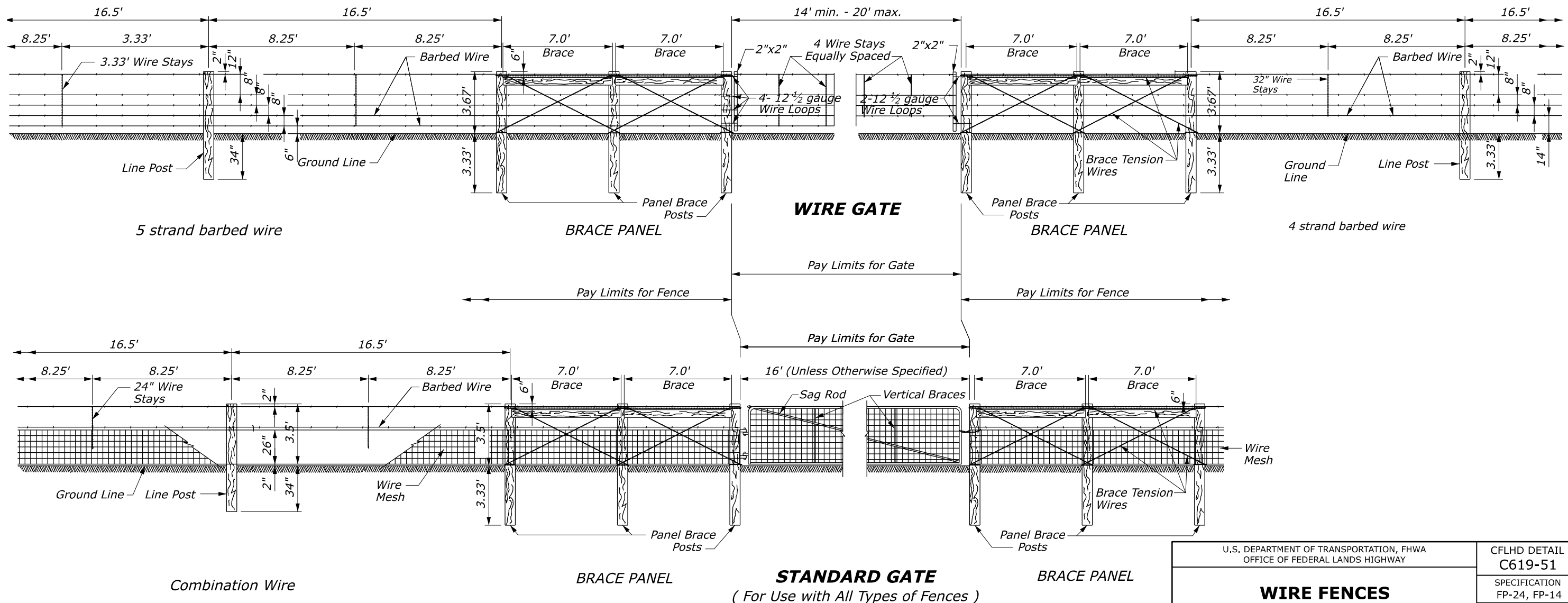
(Tie both runs of wire to center post)

**NOTE:**

- Posts are made from West Coast Douglas Fir, Ponderosa Pine, or Lodgepole Pine. Posts are treated according to AASHTO M 133 using either Pentachlorophenol or Chromated Copper Arsenate. Minimum net retention of preservative per cubic foot of wood is:  

Pentachlorophenol	0.5 lb
Chromated Copper Arsenate	0.5 lb

 Brace panel posts and horizontal braces have a minimum diameter of 6 inches and have a minimum length of 7 feet. Line posts have a minimum diameter of 5 inches and have a minimum length of 6.5 feet. Determine the diameters by measuring the circumference and dividing by 3.14.
- Barbed wire conforms to ASTM A121, Class I, and are two strands of 12 1/2 gauge galvanized wire, twisted, having two point, double wrap, 14 gauge round barbs, maximum of 4 inches apart. Minimum net weight is 78 pounds per 80-rod steel.
- Wire mesh fabric conforms to ASTM A116, Class I. Fabric is 25 inches wide, consisting of 7 horizontal wires with vertical cross wires spaced 6 inches apart. The top and bottom wires are 10 gauge galvanized and the intermediate wires and vertical wires are 12 1/2 gauge galvanized.
- Wire stays are double strand, twisted, 9 1/2 gauge galvanized. Brace tension wires are double strand, twisted, 8 gauge galvanized. Staples are 1 1/2 inches long, 0.015 inches galvanized.
- Standard gates are 3.5-foot high, consisting of a 1 1/8-inch O.D. galvanized steel tubular frame, and vertical braces at midpoint for gates 14 feet wide or less. Two braces at third points are required for gates over 14 feet wide. Woven wire mesh is as specified above, except that cross wires may be either a 2-inch or 4-inch spacing; or alternatively, chain link fabric may be used. Gate has adjustable hinges and a diagonal, adjustable, sag rod consisting of 3/8-inch galvanized steel. Latch is a chain with a closeable hook on one end, firmly stapled to the post. All fittings are galvanized.
- Place brace panels at all corners, ends, intersections and gates. Also place brace panels at all changes in alignment and grade in excess of 20°. Place brace panels at uniform intervals of not more than 660 feet. In addition to brace panels adjacent to the standard gate, place a brace panel 33 feet each side of the gate bracing, except where another brace panel exists within 165 feet of the gate bracing.
- Staple every strand of barbed wire, and every other horizontal strand of wire mesh fabric to each post according to standard procedures. Mortise braces into posts 1 inch, and nail with 4-40d nails at each end. Loop brace tension wires completely around the posts and firmly staple to prevent slippage.



U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY	CFLHD DETAIL C619-51
<b>WIRE FENCES WITH WOOD POST</b>	SPECIFICATION FP-24, FP-14 APPROVED FOR USE 06/2024