1. Construct gates from the materials shown on fences standard drawing unless otherwise shown.
2. Alternate gate designs may be used with engineer approval.
3. Construct matching metal or wood terminal frames on both sides of the gate opening. Modify the terminal frame on the hinge side of type 1A gates.
4. Ground gates that are near power transmission lines or that pass under transmission lines. Ground by connecting the hinge side of the gate to the fence or to the fence and a grounding rod. See the gate grounding details. Ensure that the gate is grounded with a flexible copper cable. Type 1 gates do not need to be grounded.
5. Construct vertical stays and horizontal braces in accordance with the gate vertical stay table and the gate horizontal brace table.
6. Alternate two type 1A, 2, or type 3 gates are used in a single opening, provide a drop rod to secure the gates.
7. On the gate location detail when D is 5' or less, install gates at the right-of-way line. When D is greater than 5' install gates at the end of the approach construction or as otherwise directed by the engineer. If installed at the end of the approach, install a right-of-way fence along the edge of the approach cut or fill slope.
8. Type 1 gates:
   a. Construct gate ends and vertical stays from a section of metal fence post or round wood post 2 1/2" to 3" in diameter, place larger wooden posts at the gate ends.
   b. Attach wire loops made with a double woven 9 gauge bare wire or a suitable clamp. Adjust the loops so that the gate is taut when closed. Fasten the loops to the adjacent latch/hinge post.
   c. Staple the stays and end posts to the connecting wires.
9. Type 1A gates:
   a. Use a modified metal or wood post on the hinge side, use a 4" diameter, 7-6" metal tube or 8" diameter 6' post. If the metal post is used, set the post in a 18" square or round foundation.
   b. Ensure that gates wider than 10' have leveling threads on a 2" diameter or larger rod.
   c. Ensure that latches are lockable.
   d. Clear the ground near the gate so that the gate can swing 90° in each direction.
10. Type 2 gates:
   a. Construct gate frames with 1/2" O.D. galvanized steel tubing with 0.050" wall thickness or 1" diameter galvanized pipe.
   b. Use 12.5 gauge or heavier galvanized wire mesh.
   c. Equip gate with an adjustable diamond truss rod. The truss rod tightening and non-tightening end of the truss rod may be welded to the gate.
   d. Use galvanized non-corrosive steel hinges and latches.
   e. Paint welds with JTD paint formula No. 2.
   f. Clear the ground near the gate so that the gate can swing 90° in each direction.
11. Type 3 gates:
   a. Chain link fence hardware may vary somewhat from that shown. Ensure that the hardware and materials used are uniform and compatible.
   b. Paint welds with JTD paint formula No. 2.
   c. Clear the ground near the gate so that the gate can swing 90° in each direction.
12. Drawing not to scale.