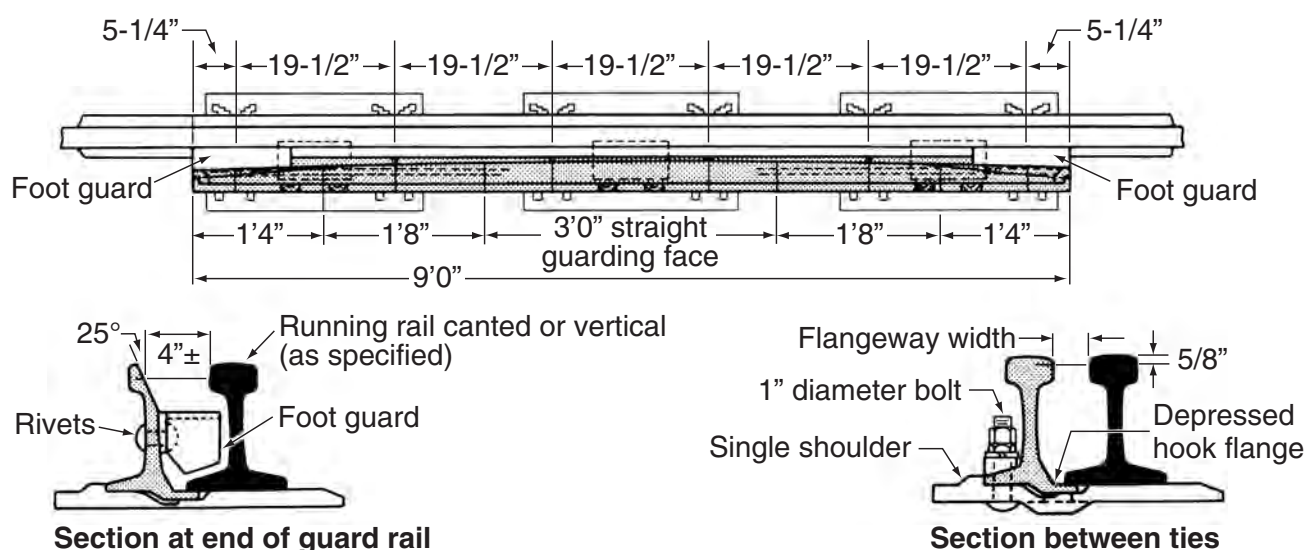


# ONE-PIECE GUARD RAILS

**One-piece guard rails** are manufactured with plates integral with the guard rail, and the unit is shipped in one piece ready to install. It is not necessary to field-drill holes in the running rail and there are no separator blocks to vibrate loose. Staggered holes in the plates generally allow leeway for gaging guard rail with frog, and use with more than one rail section. These guard rails can be supplied level with the running rail, but a height  $\frac{1}{4}$ " higher than running rail is recommended where conditions permit. In any case, the height should not be more than 1" above the top of the running rail. Some railroads specify guard rails of different heights for the same turnout, with the high guard rail to be placed on the turnout side of the frog.

**Hook-flange guard rails** (below) are manufactured from rail sections rolled especially for this guard rail.



**Manganese one-piece guard rails** (below) consist of a single casting of manganese steel with a reinforced head and corrugated web. They come in a variety of lengths and are marked with the year cast and the height of the guard rail.

