

D-6 Triple Track Mainline with Parallel Crossovers (Right-Hand) Layout Illustration - General Description

The D-6 layout, titled “Triple Track Mainline with Parallel Crossovers (Right-Hand),” is a three-track mainline configuration with parallel crossover turnouts, all set up in right-hand orientation. In a “Triple Track Mainline with Parallel Crossovers” layout, crossover turnouts allow trains to switch tracks in parallel, facilitating lateral movement across multiple tracks simultaneously. The right-hand configuration ensures that trains can move smoothly across adjacent tracks while maintaining directionality.

This layout is divided into six blocks for organized control:

West Side: Blocks 1, 4, and 3

East Side: Blocks 7, 6, and 5

The signaling system comprises six signals:

Two single-headed signals for basic control at specific points in the layout.

Four double-headed signals, providing additional routing capabilities and flexibility at crossover sections.

The layout includes four right-hand turnouts arranged in parallel pairs:

SW-D and SW-A make up the first crossover section, allowing trains to move across adjacent tracks on one side of the mainline.

SW-C and SW-B form the second parallel crossover, further facilitating track transitions across the mainline on the opposite side.

This configuration is ideal for high-traffic mainlines where parallel track changes are frequently needed, allowing multiple trains to transition between tracks in a coordinated manner. The parallel crossover arrangement supports efficient lateral train movements, enabling smooth transitions without disrupting traffic flow. With the structured block divisions, signaling, and crossover turnouts, this layout is suitable for maintaining organized, high-capacity operations within a complex rail network.