

D-2 Triple Track Mainline with Diverging Crossovers (Left-Hand then Right-Hand) Track Layout Illustration- General Description

The D-2 layout titled “Triple Track Mainline with Diverging Crossovers (Left-Hand then Right-Hand)” provides a three-track parallel mainline system with diverging crossovers, designed to facilitate seamless train movement across multiple tracks. In this configuration, diverging crossovers enable trains to transition from one track to another, enhancing operational flexibility. The crossovers are arranged with a left-hand (LH) turnout followed by a right-hand (RH) turnout, allowing for efficient switching between the three mainlines.

This layout is divided into six blocks, providing sectional control over train movements:

West Side: Blocks 5, 1, and 2

East Side: Blocks 6, 3, and 4

The signaling system consists of six signals, divided as follows:

Three single-headed signals, offering basic control at specific locations.

Two double-headed signals, which allow for more complex signal aspects and train routing options.

One triple-headed signal, which provides comprehensive routing control, particularly at locations where multiple tracks intersect or where more detailed routing is required.

There are four turnouts in this layout, labeled SW-D, SW-A, SW-B, and SW-C. The turnouts form two crossover sections:

SW-D and SW-A create the first crossover section using left-hand configurations, allowing trains to move from one track to an adjacent track on the west side.

SW-B and SW-C form the second crossover section with right-hand configurations on the east side, completing the track-to-track transition capabilities.

This layout is ideal for complex operations that require trains to maneuver between multiple mainline tracks efficiently. The combination of blocks, signals, and diverging crossovers provides optimal control, enabling safe and fluid train movements across different tracks in a high-capacity rail system. This setup is particularly useful for scenarios where frequent track changes are necessary, such as in busy rail corridors or major junctions.