SP-2 Tracks Crossing at Grade with Approach Signals Layout Illustration - General Description

The SP-2 layout, titled “Tracks Crossing at Grade with Approach Signals,” depicts an intersection where two railway lines cross at the same level, forming a diamond-shaped configuration known as a **diamond crossing**. In railway terminology, a diamond crossing occurs when two tracks intersect, allowing trains to pass over each other’s paths without connecting the tracks. This layout includes approach signals to manage train movements as they near the crossing, ensuring safe and efficient operations.

Key Features:

Blocks: The layout is divided into eight blocks: 1, 2, 3, 4, 5, 6, 7, and 8. This segmentation facilitates organized control of train movements approaching and traversing the crossing.

Signals: There are twelve single-headed signals strategically positioned to regulate train entry into the crossing from each block. Four of these signals are directly associated with the diamond crossing, providing immediate control at the intersection point. The remaining eight serve as approach signals, offering advance warnings and instructions to trains as they approach the crossing, thereby enhancing safety and coordination.

Turnouts: This layout does not include any turnouts, as it focuses solely on the management of train movements at the grade-level crossing without incorporating track-switching elements.

This configuration is ideal for scenarios where two railway lines intersect at grade, necessitating precise control to prevent conflicts. The combination of diamond crossing and approach signals ensures that train movements are well-coordinated, maintaining safety and efficiency at this critical junction.