



Railway mobile bridge in Sevilla Port

Sevilla, Spain / 2023

Owner
Client
Scope

Puerto de Sevilla
Puerto de Sevilla
tender design



Draft of the Preliminary Design for a Movable Railway Bridge to Provide Access, Crossing the Port Basin, to the Container Terminal at the Port of Seville

Study of Alternatives for Opening and Closing the Movable Span:

Vertical Lift Bridge

The central piers will be used to lift the movable span of the deck, which must have a vertical clearance similar to that of the Centenario Bridge (42 m). The lifting system for this solution is relatively simple, as the weight of the deck is balanced with counterweights located in the towers.

Rotary Bridge

The opening mechanism operates towards the basin to avoid being positioned under the Centenario Bridge. The deck is designed with a U-shaped steel section, which is filled with concrete at the rear to act as a counterweight.

Bascule Bridge

The Delicias Bridge, located in the Port of Seville, serves as an example of this type. The proposed solution consists of two leaves with a U-shaped steel section. The two lateral beams are ballasted with concrete at the rear to counterbalance the corresponding cantilevers.



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