



Construction process Construction process Construction process Construction



High Speed Railway Bridge Cañaverál-Alcántara

CLIENT	ADIF: Spanish Railway Infrastructures Administration
PROJECT DATE	2013-2015
LOCATION	Cañaverál-Alcántara, Spain
FIELD OF ACTION	Technical Assistance during construction

The high-speed railway line Madrid-Extremadura, section Cañaverál-Alcántara Reservoir, crosses the Tajo River through a 1488 meters viaduct. In this zone, the Tajo River is enlarged because of the Alcántara Reservoir.

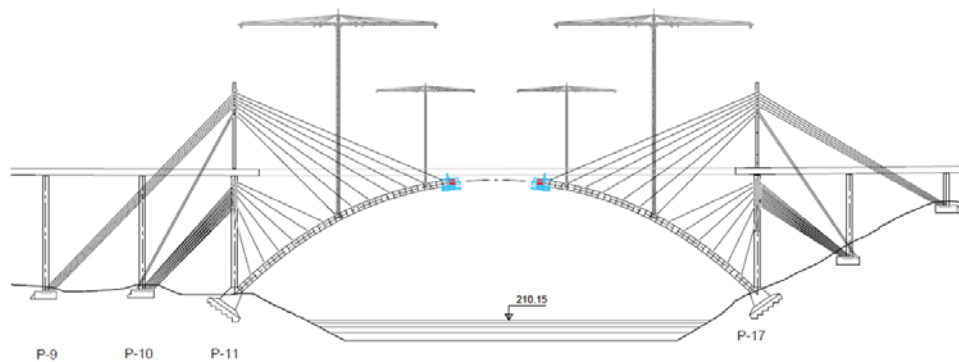
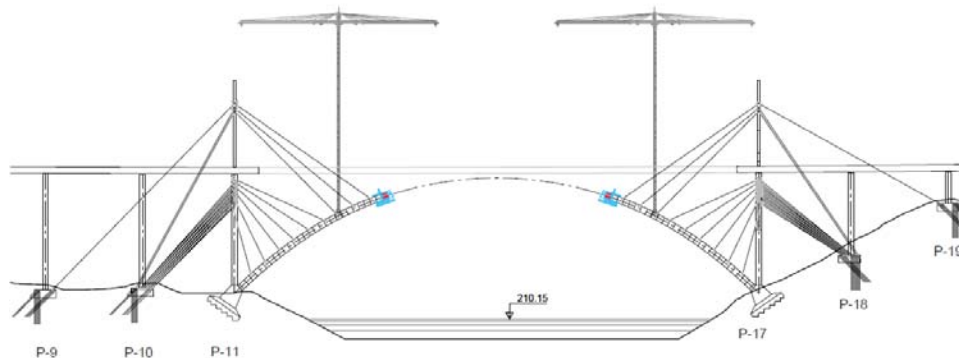
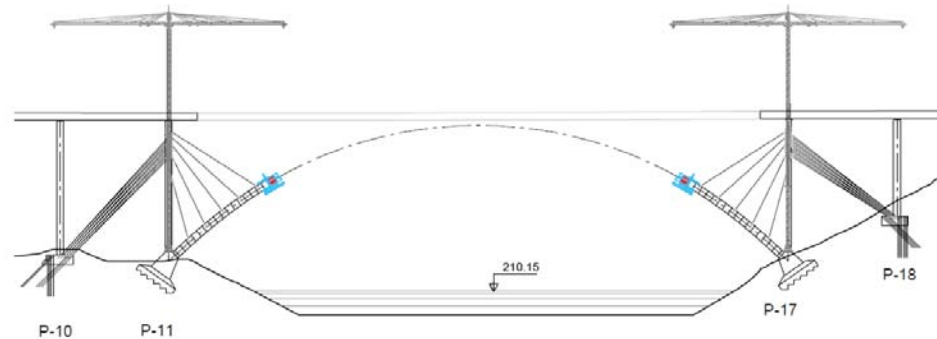
To span the riverbed, a long concrete bridge has been designed, with its foundations out of the reservoir. Its span is 324 m and its high is 70 m above the arch bearings.

The span length distribution is influenced by the river. The bridge deck over the arch is composed by 6 spans 54 m long supported by the arch. Access spans are 60 m long, with two transition spans 57 m long.

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The arch cross section is rectangular variable in depth from 4 to 3.5 m and in width from 12 to 6 m.

The deck cross section is a prestressed concrete box with 4 m depth and a total width of 14 m. Pile height is variable reaching 72 m in the closest zone to the river.



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