

Zarzuela Junction Bridges

The Zarzuela Junction is located on the M-40 ring road, at its intersection with the El Pardo highway and the crossing over the Manzanares River. It allows the connection between M-40, M-30 and El Pardo Highway.

In a very small area there are 2,247.20 lineal meters of viaducts or 32,760.00 m² of structures.

It is a noteworthy solution that has been solved with pre-stressed concrete decks. There were several factors to be considered: the increase in the span lengths in order to reduce the number of piers, the spans had to be compatible with modest heights so as to employ the smallest depths possible and the adjustment with the shape of the cross section so as to exaggerate the length of the cantilevers in order to dissimulate the established depth.



Spain /1996 Project data

Structural type:
Viaducts with pre-stressed concrete
decks and spans of 45.00m to 50.00m.
Location:
Zarzuela junction on the M-40
ring-road motorway. Madrid
Opening date:
July 1996
Proprietor:
Ministry of Public Work
Construction:
UTE OCP - AUXINI and
Dragados Obras y Proyectos
Scope of Works:
Construction Project and
Technical Assistance