

## Bridge over the Torrent Gully

The Bridge over the Torrent Gully is historical dating back to the second half of the 19th century. It is 106.69 m long and has nine vaults that can be grouped into two sets, six with spans of 3.0m and the other 6 are 12.0m. The layout of the new highway required the demolition of part the bridge, in order to substitute it with another one compatible with the characteristics of the platform, so allowing the crossing of the highway underneath it, and also the widening of the existing bridge.

In order to enlarge the bridge, its structural capacity was

studied, and a solution that uses the present capacity of the bridge was reached so minimizing the load increase. Prefabricated concrete hollow slabs were used to maintain the value of the load in spite of the increase in the width of the bridge from 8.31m to 11.0m.

For the new structure, a new solution of an integral reinforced concrete bridge was adopted. The shape of the new bridge is in sharp contrast with the existing one, showing the differences but highlighting the historical structure.



### Spain / 1998 Project data

Structural Type:  
Prefabricated concrete hollow slabs  
(Widening of historical bridge)  
Location:  
Southern Regional Distributor in Valencia  
Province of Valencia  
Opening date:  
December 1998  
Proprietor:  
Valencian Regional Government  
Construction:  
Dragados Obras y Proyectos  
Scope of Works:  
Rehabilitation and Extension Project