

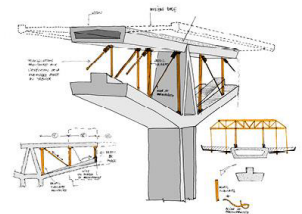
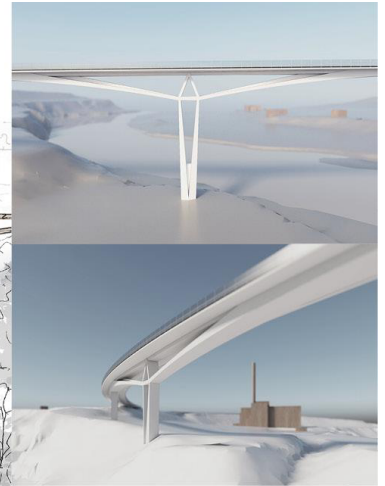


Hauterive Bridge

Fribourg, Switzerland / 2020

Owner
Client
Scope

Cantón de Friburgo
Departamento de Carreteras y Puentes Cantón de Friburgo
tender design



Building a high viaduct over a river valley is one of the frequent challenges for the bridge engineer. In the case of the Hauterive bridge, the existence of a contaminated area located in the meander of the Sarine river and the environmental protection area of the river itself required the construction of two 150m main spans. The solution that was proposed to the competition is a concrete lintel built by successive cantilevers in which mass has been removed from the deck where not necessary. Thus, part of the lintel mass has been eliminated and the area of pile-deck connection of the main spans has been significantly lightened, reducing this area to a triangulation of concrete slabs that resolve forces transmission between both elements.

The solution is therefore an evolution of the classic deck built by successive overhangs towards a more transparent and light system. A novel bridge in terms of resistance but at the same time a classic bridge in its formalization.



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