

FEATURE OF TECHNICAL SERVICE

Subject	Detailed design and geological-geotechnical study for Cable-stayed bridge in Bari.		
Carried out by	SGAI Srl di E. Forlani & C.		
Client	CIMOLAI Spa		
Service length	2010 – 2014		
Value of works	€ 18'821'194,00		
	S.06	€	7'528'477,60

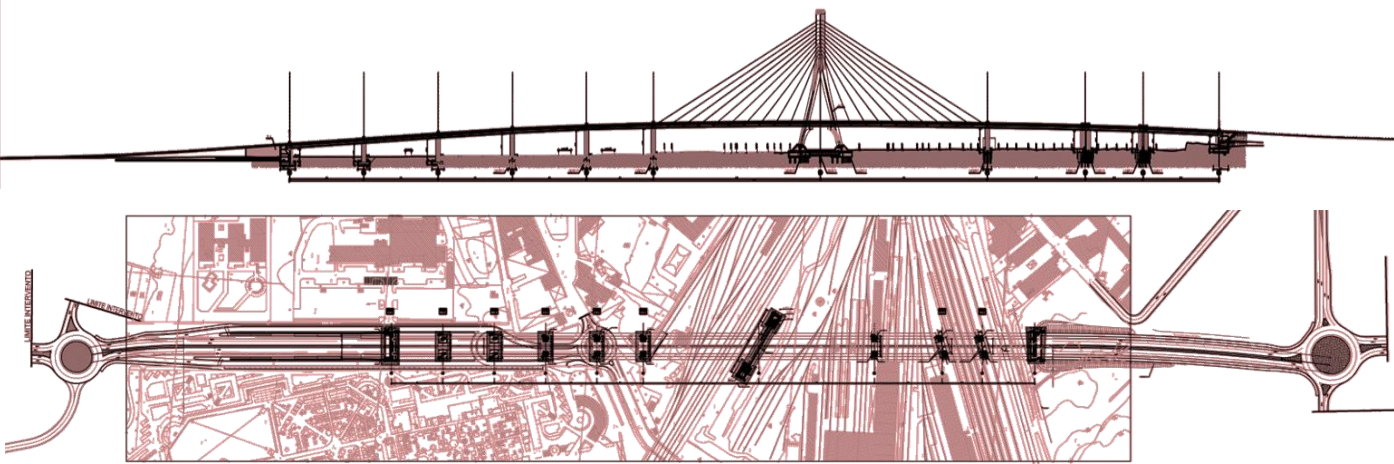
Bari Bridge - Description of the bridge project

The cable-stayed bridge in Bari with a single central pylon allows to bypass the existing railways to connect the northern area with the southern area of the city. The Cable-stayed bridge is accompanied by two support viaduct made in steel box girder and concrete slab. The total length of the bridge is about 626 m divided into 10 spans, including 2 central spans of 112 m located over the two main rails. Structure is symmetric and supported by cable-stay fixed on central pylon. The pylon is 71 m height with a reversed Y shape, with steel cables and beams and overlying concrete slab. SGAI S.r.l. developed the geotechnical design, the detailed design of the substructures, foundation and defined the bearing characteristics. SGAI also performed the global seismic analysis of the entire structure and designed the temporary civil works for the erection phases.

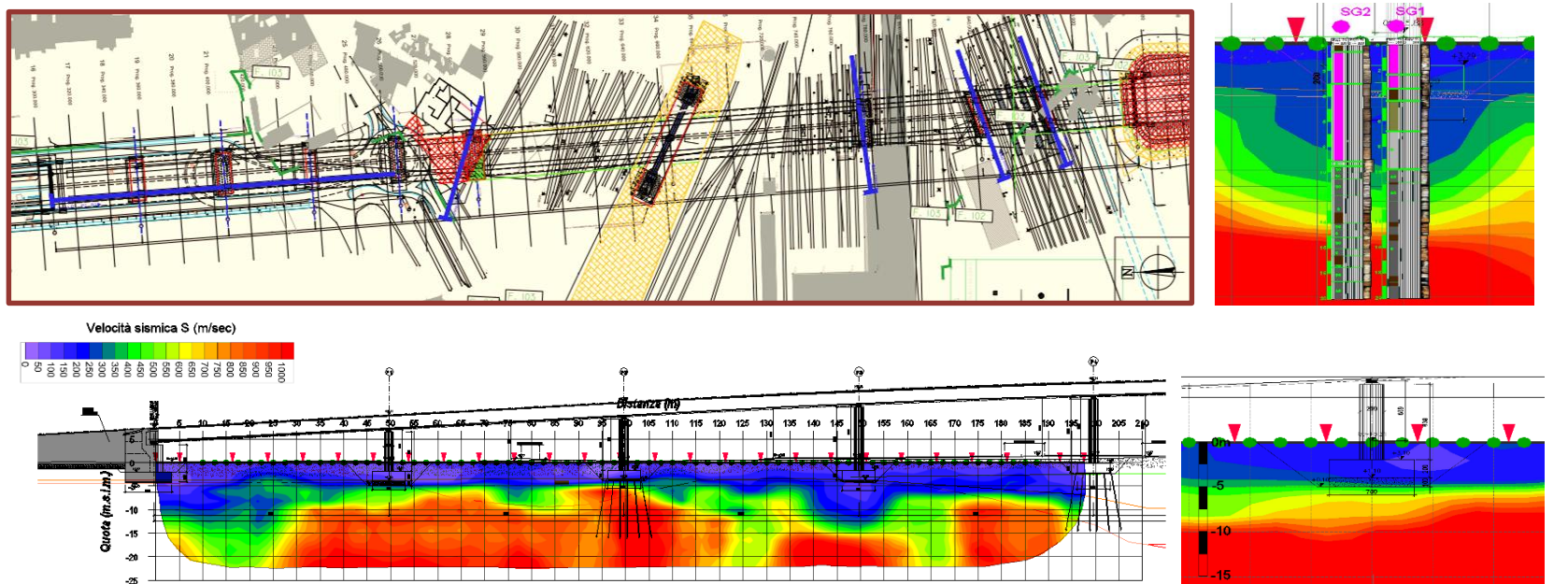
Bari Bridge – Image of infrastructure



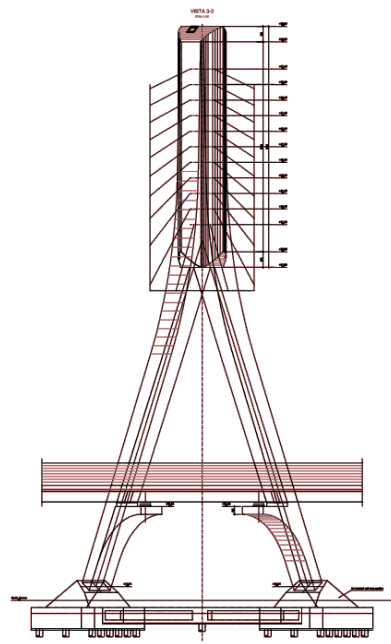
General infrastructure plan and section



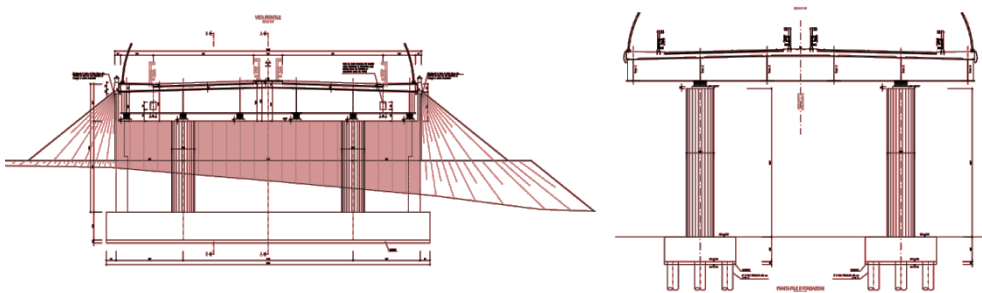
Geophysical surveys and global seismic analysis



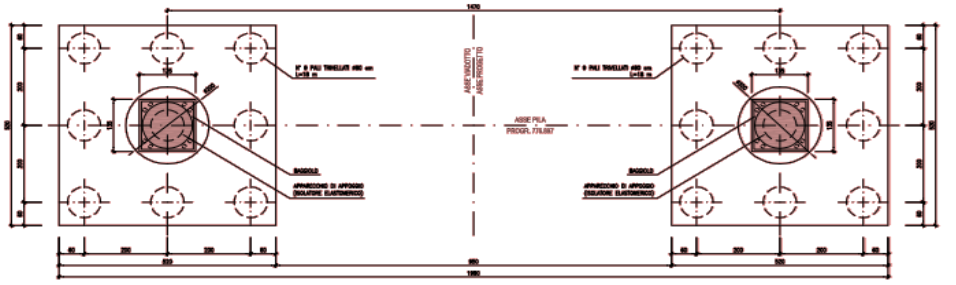
Central Pylon



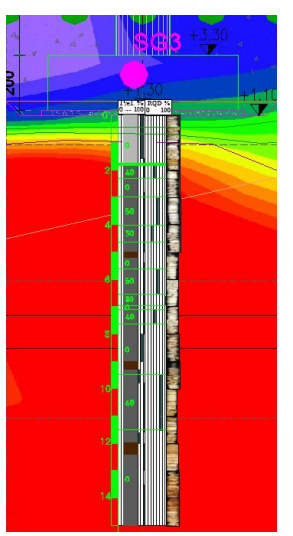
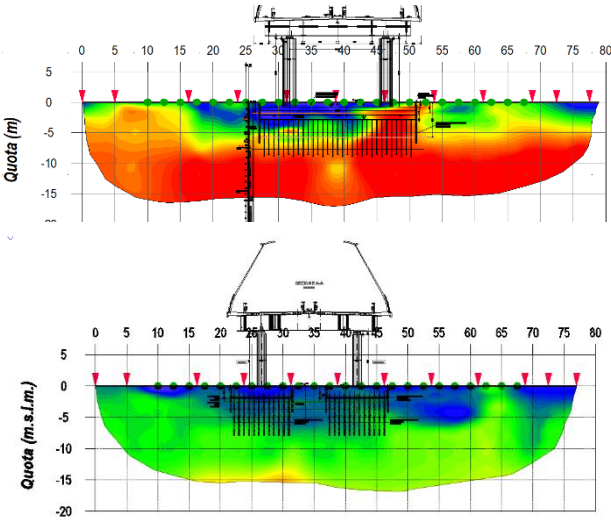
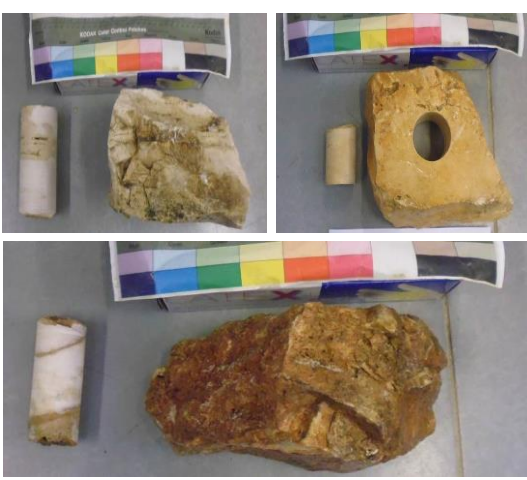
Frontal views



Piles and foundation



RQD index estimation



BRIDGES AND VIADUCTS