

Atlas of Details



Gustave Eiffel. Le Viaduc de Garabit 1880-1884

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URL: <https://www.detailsinsection.org/archives/projects/garabit>

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Atlas of Details is a research project to demonstrate how insightful a section can be, in order to represent the complexity of the architectural artifact, since it allows the simultaneous perception of materiality and form, of building envelope and interior spaces. Atlas of Details is a project by The Formwork, an association established by professors and PhD candidates with diverse academic backgrounds (history, architectural design, technology, preservation) working at the IUAV University in Venice and at the Milan Politecnico. For more information about the Atlas of Details and The Formwork, please contact info@theformwork.org.

The Formwork

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Gustave Eiffel

Le Viaduc de Garabit

1880-1884

Text

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IUAV Venezia

Drawings

Andrea Cibirin
IUAV Venezia

Engineer

Gustave Eiffel

Name of the bridge

Le Viaduc de Garabit

Site

Bridge over the Truyère River, part of the Causses Line

Clients

French Government

Contractors

MM. Eiffel et Cie (Compagnie des établissements Eiffel)

Engineer

Léon Boyer (structural engineer);
Maurice Kœchlin (structural engineer);
Émile Nougier (general studies and process manager)

Other actors

J.B. Gobert (working site assistant inspector);
M. Compagnon (engineering staff)

Building permit

14 June 1879

Start of construction works

January 1880

Project variations steps

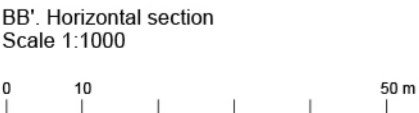
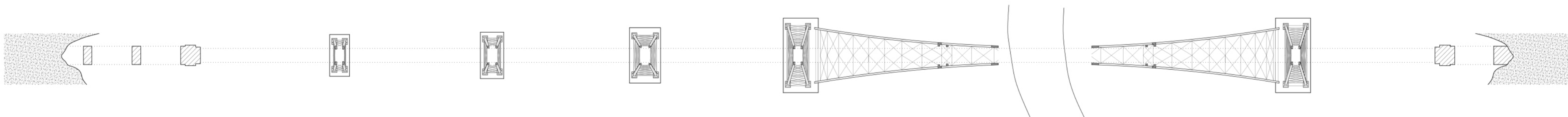
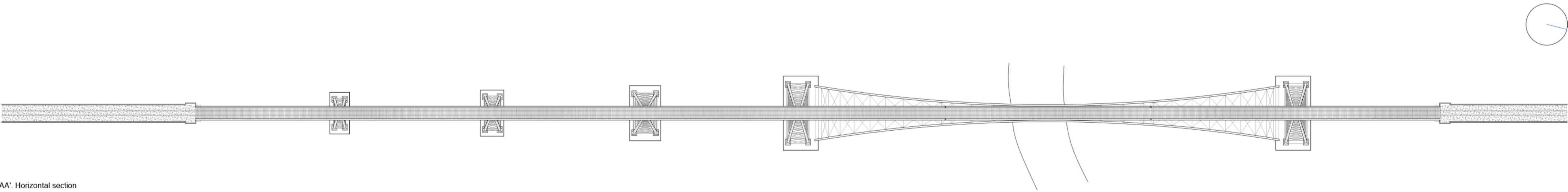
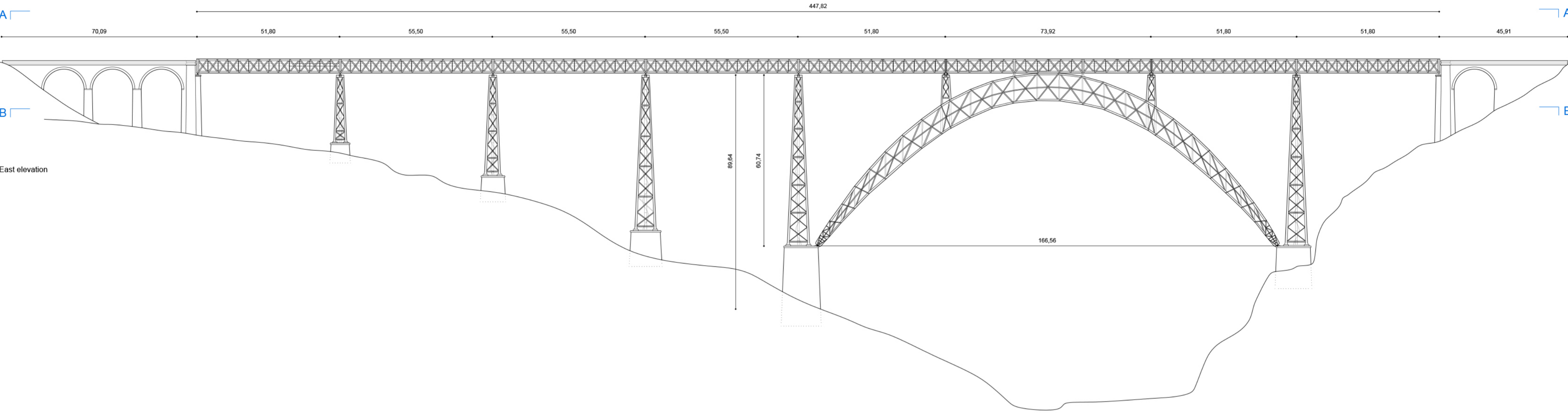
October 1882 (end of masonry);
August 1882 (building of the first metallic pillar);
24 June 1883 (building of the arch)

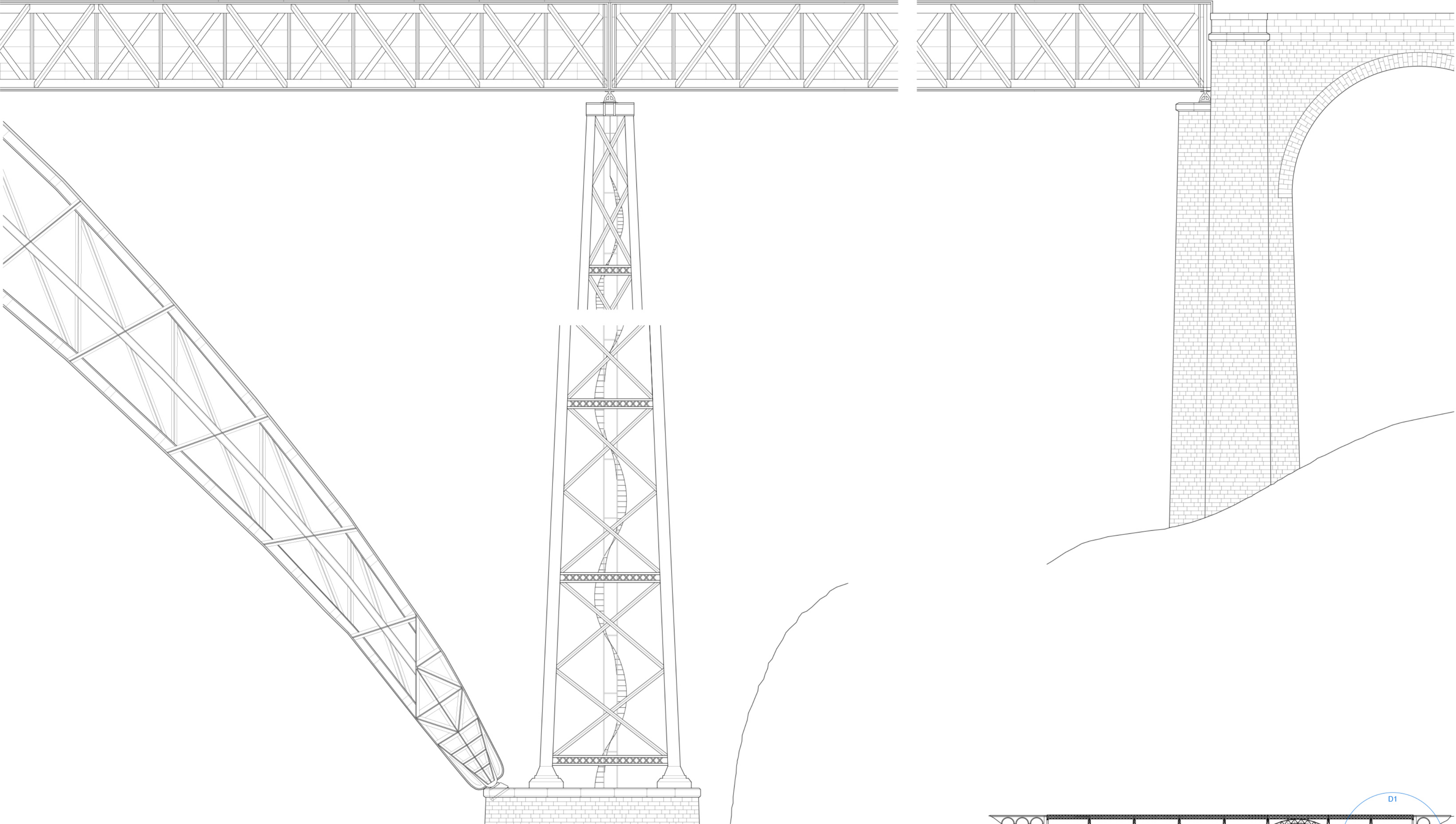
End of construction works

November 1884

Construction system

Metal railway viaduct with masonry abutments on both sides. The main span over the Truyère river consists of a double hinged deck truss metal arch.





Elevation, bridge pier and arched abutment

Scale 1:150

0 1 5 m