AK Nuremberg East BW3-1 Overfly



SHORT DESCRIPTION

586 metre long cable-stayed six-span steel composite bridge with 5 pylons

THE PROJECT

Currently, there are frequent traffic jams and accidents at the Nuremberg-East interchange and the Nuremberg-Fischbach interchange due to intersecting traffic. The situation has been exacerbated by major traffic-intensive events such as trade fairs, football matches and concerts, all of which have their source and destination in the south of Nuremberg. With the overpass structure (so-called overfly), a steel composite bridge is being created at the Nuremberg East interchange using the incremental launching method, which will significantly improve traffic safety as well as the performance of international and interregional traffic. The measure comprises the construction of a 6-span bridge spanning the motorway junction Nuremberg East, crossing the A6 (Heilbronn - Amberg), the A9 (Berlin - Munich), the ramp Amberg Munich (2x) and the distributor roadway (Berlin - Amberg). After the construction of the 5 piers and 2 abutments in numerous, different traffic phases on the motorways, the steel construction of the steel composite superstructure including the pylons standing on it is moved using the incremental launching method. This is followed by the concreting of the in-situ concrete superstructure and the caps.

SERVICES IN DETAIL

6,000 m3 in-situ concrete
1,700 t reinforcing steel
8,500 to composite steel superstructure
1,800'm bored piles

CHALLENGES

Tactile sliding method of steel composite deck with pylons Support spans 64.00 m + 4 x 115.00 m + 64.00 m = 588.00 m Construction work over motorways with flowing traffic Piers with transverse prestressing narrow radius

SUSTAINABILITY

The construction of the measure will relieve the motorway interchange of a great deal of traffic. The Berlin - Heilbronn lane will be removed from the motorway interchange and the environment will be spared in terms of emissions.

FACTS

Location	AK Nürnberg Ost , Germany
Status	completed
Construction volume (value of our services)	55 M EUR
Start of construction	August 2021
Completion	October 2024
Building owner	Autobahn GmbH des Bundes Niederlassung Nordbayern
Contracting entity	Autobahn GmbH des Bundes Niederlassung Nordbayern
General management	Autobahn GmbH des Bundes Niederlassung Nordbayern
Project management	Autobahn GmbH des Bundes Niederlassung Nordbayern
Architect	BUNG Ingenieure AG/KLÄHNE BUNG Beratende Ingenieure im Bauwesen GmbH
Construction management	Implenia Construction GmbH NL Süd
Planning	BUNG Ingenieure AG/KLÄHNE BUNG Beratende Ingenieure im Bauwesen GmbH
ARGE	✓
Construction management	Implenia Construction GmbH NL Süd

SERVICES

Civil engineering