

FerroStrada (UK) Limited Venlaw House - Burston Road - The Heywood South Norfolk - IP22 5SX United Kingdom Tel: (0)1379 308051 Email: <u>admin@ferrostrada-uk.com</u>

Saint Petersburg Ring

Innovation

The Production and Erection of Viaduct and Bridge Decks







www.ferrostrada-uk.com

www.spicsrl.com

Activity



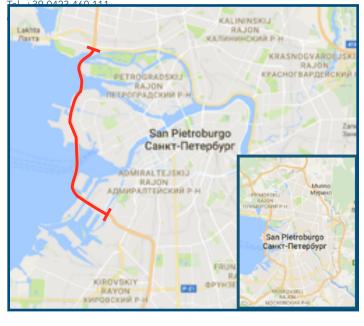
St Petersburg Ring.



o connect the north and south sections on a the west stidene the representation of the north and south sections on the west side the highly fc ehicular traffic to complete an external ring road around nnection was to simultaneously allow ships to enter into

the bay day and night without interrupting road traffic by the opening SRICclossingaøicana lexisting Bascule Bridge.

Via Sile, 20 - 31033 Castelfranco Veneto - Italy





To connect the north and the south in the 1.1

Development & Activit

Working on behalf of Principal Contractor Joint Venture ICTAS and ASTALDI, FerroStrada SPIC was awarded the construction of Sections 2 and 3 (as illustrated) to complement the construction of a project in excess of 11.5km of road and two cable stayed bridges.

Auxiliary Structures

Using inventive concepts, the preparation and execution of a thought through method statement saw the erection and deinstallation of over 19,500 tonnes of steel structures needed for the erection of the bridge decks.



Main Structures

SPIC Internazionale s.r.l. Via Sile, 20 - 31033 Castelfranco Veneto - Italy Tel. +39 0423 460 111 C.F. P.IVA 03336320241

The main structures consisted of 40,000 tonnes of steel structures and 55,000m² of deck.

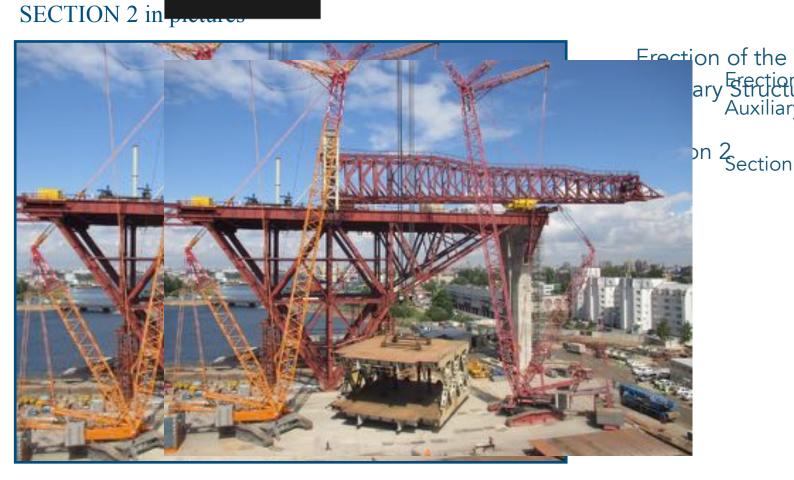
Section 2 consisted of 1km of structure with a maximum span of 168m

Section 3 consisted of 1.6km of structure with a maximum span of 85m

The work was delivered by 45 technical managers and supervisors and employing up to 850 local staff working in total 2.7 million hours over a two year period.



Saint Petersburg Ring the concept and the local area, auxiliary structures were Saint Peter to the project.



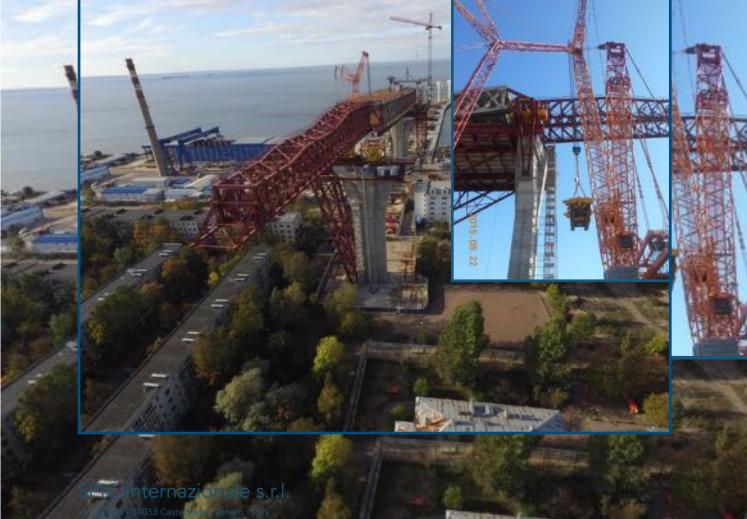


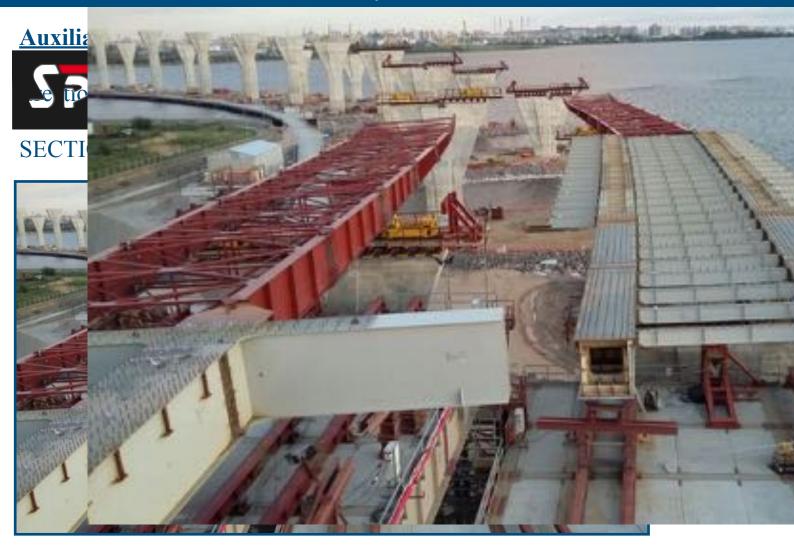


Saint Retersburg Ring Erection of 1 Auxiliary Str

Section 2 Erection of the Auxiliary Structures

Section 2







Via Sile, 20 - 31033 Tel. +39 0423 460 111 C.F. P.IVA 03336320241

Page **6** of 14

ŀ

0





SPIC Internazionale s.r.l.

Via Sile, 20 - 31033 Castelfranco Veneto - Italy Tel. +39 0423 460 111 C.F. P.IVA 03336320241 E A S

S



Using the bespoke erection of the auxiliary structures, the main bridge deck installation by incremental launching can be realised. The erection required 550 workers over 18 months amassing a total of 1.9 million working hours in climatic conditions of -20°C and wind speeds up to 80 km/hr.

SECTION 2 in pictures:



Tel. +39 0423 460 111

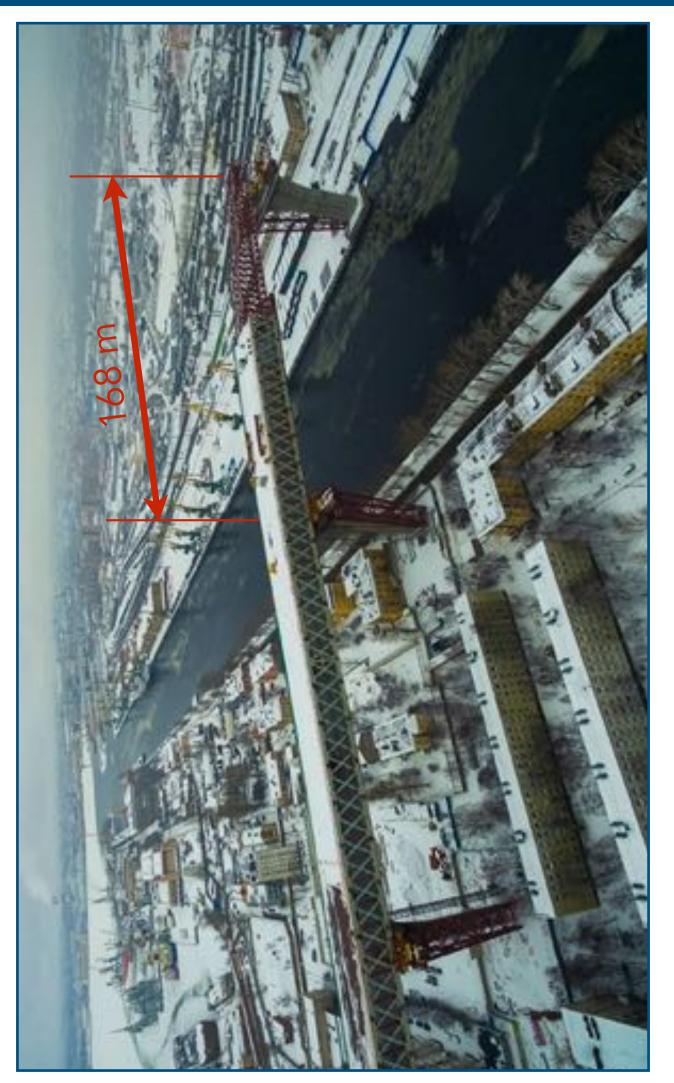
Erection Erection of the Deck

Section²2



Heavy lifting Erection Erection ôfthdouble deck segments of 19m x 24m x Section 2 tonnes

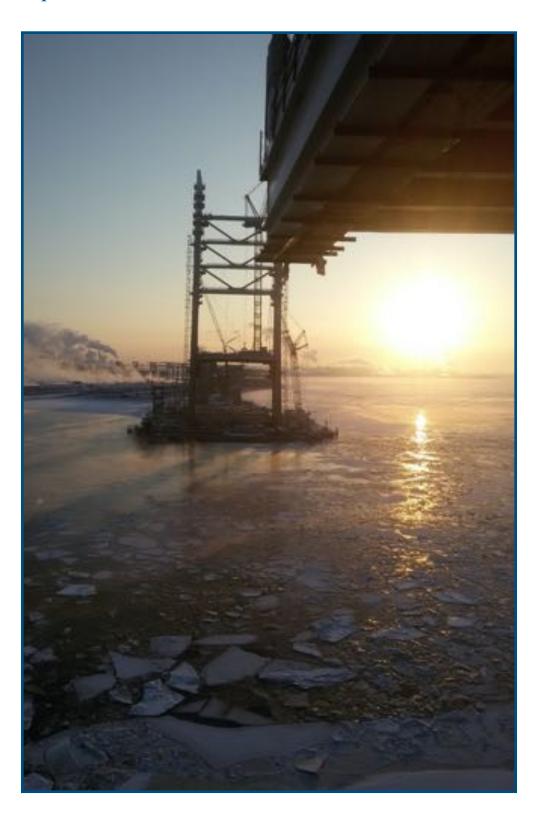


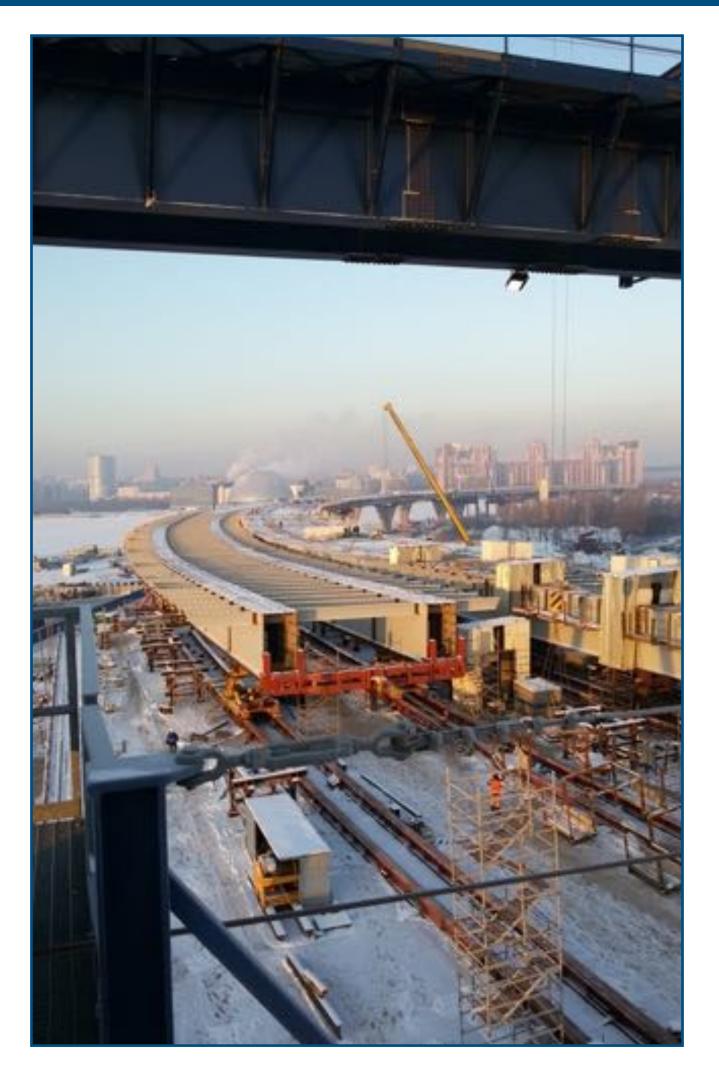


The erection of Section 3 required 300 workers over 14 months amassing a total of 850,000 working hours in climatic conditions of -20°C and wind speeds up to 80 km/hr.

rn High Speed Diameter - Saint Petersburg







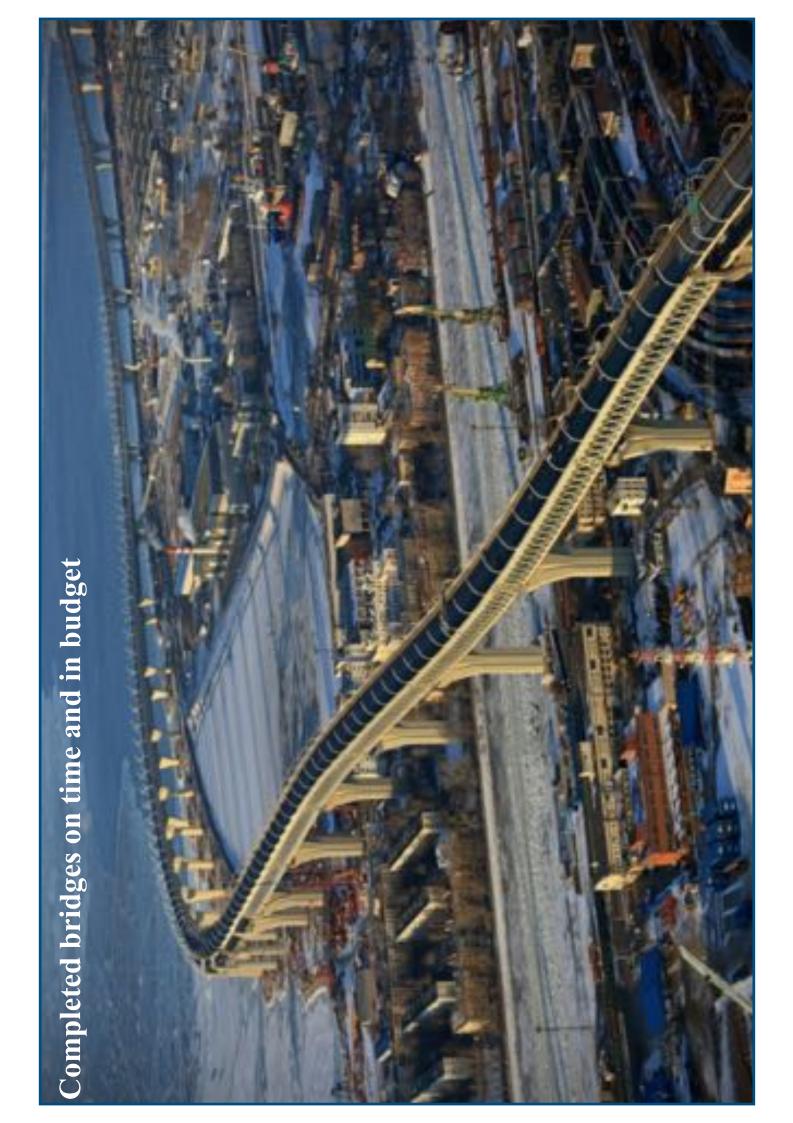


The erection of this section involved up to 300 people during 14 months, with a total amount of 850'000 heures of working time. The operations was performed in every climatic conditions, with temperatures up to -20°C and wind up to 80 km/h.













FerroStrada (UK) Limited Venlaw House - Burston Road - The Heywood South Norfolk - IP22 5SX United Kingdom Tel: (0)1379 308051 Email: <u>admin@ferrostrada-uk.com</u>