Project Profile

Elkhard County Five Span; Elkhard County, Indiana (USA)



Description

Elkhart County needed to replace a deteriorating bridge structure originally built in 1968. The structure carries County Road 17 over the St. Joseph River in Elkhart, Indiana.

In order to accommodate increased traffic in the area, it was determined that the new bridge must be wider than the old one. In addition, the newly installed structure eliminates a skew in the original roadway, making traffic safer and eliminating frequent car accidents in the area.

The BEBO T series with precast modular components promised cost efficiency and a quick installation. Traffic was maintained over the structure throughout the entire construction process.

Technical Data

Arch Type:	5 x T90
Geometry:	5 x 90 ft span (5 x 27.4m); 11 ft - 9 in rise (3.6m)
Overall Length:	108 ft (32.9m)
Walls:	Precast Panels
Installation Date:	Fall 2011

BEBO Arch International AG www.beboarch.com Phone: +41 43 501 04 50 - Fax: +41 44 268 96 71



Design Package by BEBO (Arch Element Design)

The E66T/0 had to be redesigned to carry the special mining vehicles. The structural design for the arch elements including reinforcement drawings was submitted for approval and later for production only a few days after receiving the contract.



Design Package by BEBO (Foundation Design)

Based on test borings and laboratory analysis, the local geotechnical engineer suggested a piled foundation for the BEBO Arch. A piling contractor familiar with the in-situ subsoils suggested the type of piling to be used and provided the corresponding pile capacities. Based on this information, BEBO carried out the structural design of the rc pile cap.



Design Package by BEBO (Wall Design)

Precast full height MSE panels were used for spandrel- and wingwalls. The complete wall design was carried out by BE-BO and geometry-, reinforcement- and MSE grid drawings were submitted to the client for construction.



Production / Construction



Project Profile

Benham Bridge; Wellington County, Ontario (CAN)





Description

This project involved the removal and replacement of Wellington Structure No. B000075, Benham Bridge on Guelph/Eramosa - Erin Townline over the Eramosa River in the County of Wellington.

Technical Data

Arch Type:T68Geometry:68 ft span (28.7m); 9 ft rise (2.7m)Overall Length:7.6mWalls:Reinforced Soil WallsInstallation Date:Fall 2013

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Design Package by BEBO (Arch Element Design)

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Design Package by BEBO (Foundation Design)

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Design Package by BEBO (Wall Design)

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Production / Construction



Project Profile

Hwy 630 Amable du Font River; Calvin, Ontario (CAN)



Description

An existing steel girder bridge crossing over Amable du Font River needed to be replaced for the over crossing of HWY 630 in Calvin Township, Ontario.

The previously carried out soils investigation encountered granite bedrock close to the existing ground level on either side of the river - an ideal application for a BEBO T-Series arch structure.

In addition, located in the close vicinity of the T94 structure, the project included an additional BEBO T-Series structure (T74 with 22.6m span).

Technical Data

Arch Type:
Geometry:
Overall Length:
Walls:
Installation Date:

T94 and T76 94 ft span (28.7m); 12 ft rise (3.7m) 9.8m Reinforced Soil Walls Fall 2013

BEBO Arch International AG www.beboarch.com Phone: +41 43 501 04 50 - Fax: +41 44 268 96 71





Design Package by BEBO (Arch Element Design)

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Design Package by BEBO (Foundation Design)

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Design Package by BEBO (Wall Design)

Precast full height MSE panels were used for spandrel- and wingwalls. The complete wall design was carried out by BE-BO and geometry-, reinforcement- and MSE grid drawings were submitted to the client for construction.



Production / Construction





















