



projektční kancelář spol. s r.o.

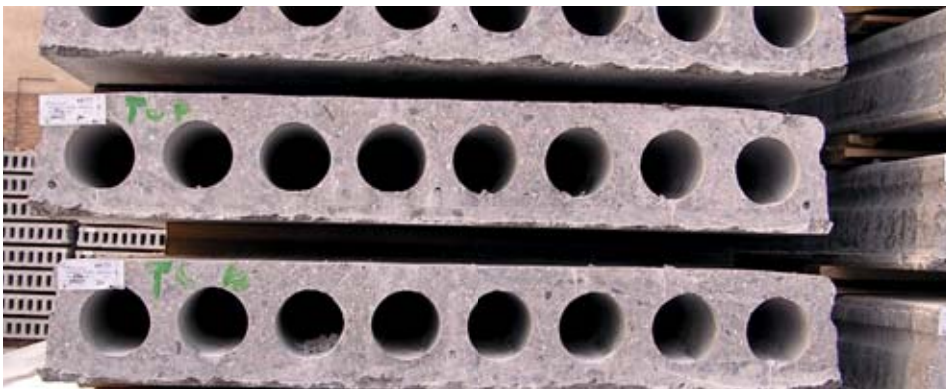


INŽENÝRSKÁ ŘEŠENÍ
pro konstrukce a mostní stavby
ENGINEERING SOLUTIONS
for Structures and Bridges



1 **Cromodora Wheels - roof trusses for the factory buildings**

Pre-stressed plate girders to span 34.0 m



2 **Prestressed ceiling panels SPIROLL**

Hollow ceiling panels of pre-tensioned concrete. They are designed for ceiling and roof design of residential, commercial, industrial and civil engineering.



3 **Football stadium in Zlín**

Prefabricated grandstands



4 **Hypermarket TESCO Prostějov**

Single-storey reinforced concrete buildings: columns, girders, purlins, bracing, beams, ceiling panels, stair landings and shoulders, strip foundation, wall panels, window panels

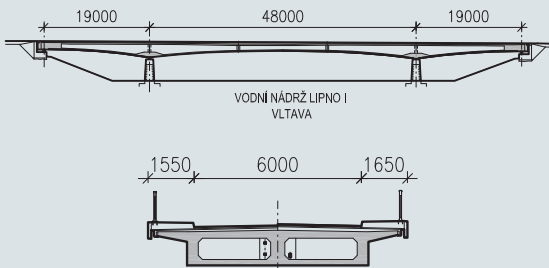


REPAIR OF BRIDGES BY EXTERNAL CABLES



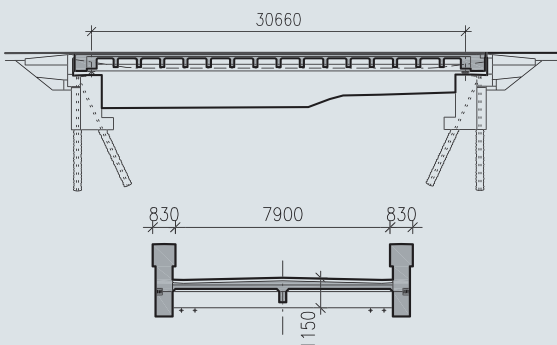
1 Bridge over water reservoir Lipno I on the Vltava River at Nová Pec

- A continuous beam with hunches over internal supports
- Spans: 3 (19.0 + 48.0 + 19.0 m)
- Dual box structure of prestressed concrete fortified of the external cable inside the box (in the longitudinal direction)



2 Bridge over the Svitava at Zboněk

- The reinforced deck slab with crossbeams and main reinforced concrete parapet beams
- Span: 30.7 m
- Structure was fortified with external longitudinal and transverse prestressing





1 Bridge Holzova over street Ostravská, Brno

- Frame construction of pre-stressed concrete "DS-A" beams (system strut-tie) with a monolithic concrete deck slab, pre-stressed crossbeams
- Rehabilitation of substructures and structures, a new deck slab, a new bridge equipment



2 The bridge on the road I/19 - Nové Město na Moravě

- Bridge of precast "KA-61" beams
- Spans: 3 simple fields (13.1 + 16.5+ 13.3 m)
- Rehabilitation of substructures
- Lifting the structure and exchanging bearings
- The new composite reinforced concrete
- New bridge equipment



3 The bridge over the Volyňka River near the village Nišovice

- Bridge of precast I-beam "I73", internal support without expansion joint
- Spans: 2 simple fields (26.0 + 26.0 m)
- Rehabilitation of substructures, a new deck slab
- New bridge equipment



4 The bridge on the road I/38 near the village Habry

- Bridge of precast "KA-73" beams, internal supports without expansion joint
- Spans: 4 simple fields (4x14, 4 m)
- Rehabilitation of substructures, lifting the structure, a new deck slab
- New bridge equipment



5 The bridge No. D1-181 near Velké Meziříčí

- Highway bridge of I-beam "I73"
- Span: 26.0 m.
- Rehabilitation of substructures, a new deck slab
- Lifting the structure and exchanging bearings (left bridge)
- New bridge equipment
- The new freestanding sound wall by right bridge



6 Scaffold bridge on I/52 at the central cemetery in Brno

- A one-way scaffold bridge with connected branches, a Y-shaped ground plan
- Continuous structure of pre-stressed beams "DS-C"
- Spans: 9 (20.7 +7 x27.0 +20.7 m)
- Rehabilitation of substructures and structures, a new deck slab, a new bridge equipment



1 Bridge over the Divoká Orlice river "Zemská brána" ("Earth Gate")

- The original stone bridge was dismantled the stone arch
- The substructure reinforced by micropiles construction, grouting and cleaning of individual parts, a new RC slab
- landed in brackets
- Clean rise of arch: 12.0 m



2 Bridge № 135-005 Bechyně

- The original stone arch was damaged by flood. Given that this is a technical monument, the original stone arch was preserved and extended by using continuous prestressed construction
- Clean rise of original arch: 15.0 m
- New spans 3 (13.5 + 18,0 + 13.5 m)
- Foundation on micropiles



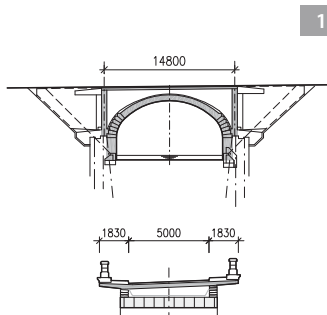
3 Bridge № 154-001 Kaplice

- Reconstruction of two buried annular vault of quarry stone
- The original stone arch by adding a new reinforced concrete cantilevered vault with fixed parapet walls
- Clean rise of arch: 2.9 and 3.1 m.



4 The bridge over the ravine in the village Vehlovice

- Buried bridge consisting of prefabricated RC frame vaults with two hinges
- Parallel wing walls of reinforced soil with face of concrete blocks, perpendicular slope wing walls of reinforced concrete
- Clean rise of arch: 6.9 m
- Foundations: Shallow



NOISE BARRIER WALLS



1 **Noise barrier wall near the bridge D1-167 near Měřín**

- Separate steel space frame structure
 - Wall height 4.5 m above the cornice
 - The construction of reinforced concrete pylons completed,
- followed by concrete wall in front of and behind
- Spans: 3 (12.3 + 15.0 + 12.3 m)



2 **Noise barrier wall near the bridge D1-181 right near Velké Meziříčí**

- Separate steel space frame construction
- Wall height 3.5 m above the cornice
- Spans: 3 (18.0 + 27.0 + 15.0 m)



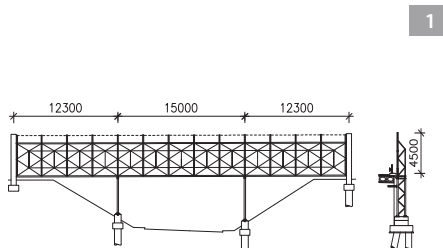
3 **Noise barrier wall on the bridge on the R35 near Slavonín**

- Absorbing sound wall
- Wall height of 3.8 m on the cornice



4 **Noise barrier wall on the road viaduct in Uherské Hradiště**

- Steel railings height of 1.5 m with acoustic panels



RETAINING WALLS



1 Retaining wall in the village Písečné



2 Gabion retaining wall on the road I/48 Dobrá - Tošanovice

- Reducing the embankment body using gabion wall height from 0.5 to 5.0 meters
- Shallow foundations

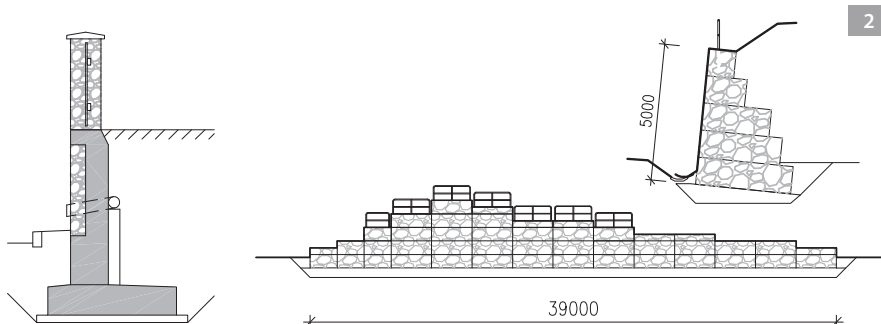


3 Gabion retaining wall at the bridge in Dolní Skrýchov



4 Retaining wall in Podolí on the road I/50

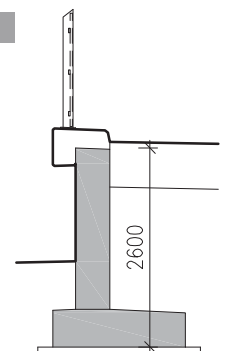
- Reinforced concrete retaining wall with a protective wall filled with recycled plastic
- Shallow foundations



2



4





1

Pedestrian bridge over Svitava River in Brno – Obřany

- Steel and concrete structure, steel truss girders with reinforced concrete deck
- Span: 32.90 m
- Foundations: micropiles



2

Pedestrian bridge over Bečva River in Přerov

- construction of prestressed concrete I-beams with a composite reinforced concrete slab
- Spans: 4 simple fields (18.9 + 21.1 + 21.2 + 18,8 m)
- Placed on the original abutment



3

Pedestrian bridge over the road I/48 Dobrá - Tošanovice

- Continuous composite steel-concrete construction with plate main girders with struts
- Spans: 3 (9.0 + 25.0 + 9.0 m)
- Foundations: Shallow



4

Suspension bridge in Olomouc Zoo - monkey enclosure

- Suspension belt with prestressing cables, wooden deck structure
- Span: 40.6 m
- Railings of strands and steel pillars



5

Pedestrian bridge over Svatka River Vídeňská - Poříčí in Brno

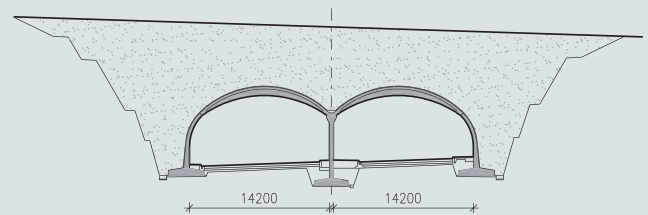
- Steel construction with two plate main girders
- Span: 39.3 m
- Foundations: micropiles walls



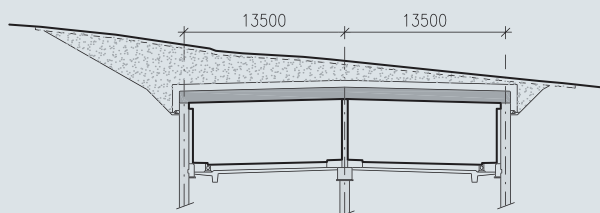
1

Road tunnel on the R35 at the Lipník nad Bečvou

- Tunnel construction of two prefabricated arch tubes with shared central wall
- Clear span of arches: 6.9 and 6.6 m.
- Tunnel length: 93.4 m.
- Foundations: Shallow



2



Road Tunnel on the road I/48 Rychaltice - Frýdek-Místek

- Excavated tunnel with reinforced concrete monolithic diaphragm walls, inside a monolithic reinforced concrete wall and upward monolithic reinforced concrete ceiling thickness of 1.0 m
- Clear span: 2x 12.5 m
- Tunnel length: 160.8 m
- Foundations: Reinforced diaphragm walls



1 **Bridge in Uherské Hradiště on the railway line Kunovice-Staré Město**

- Concrete slab reinforced by embedded steel girders and reinforced concrete crossbeams
- Single-track line, embedded ballast bed
- Span: 15.7 m
- Foundations: Large-diameter drill piles



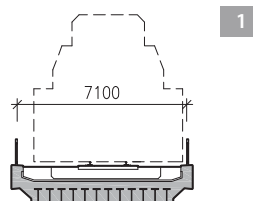
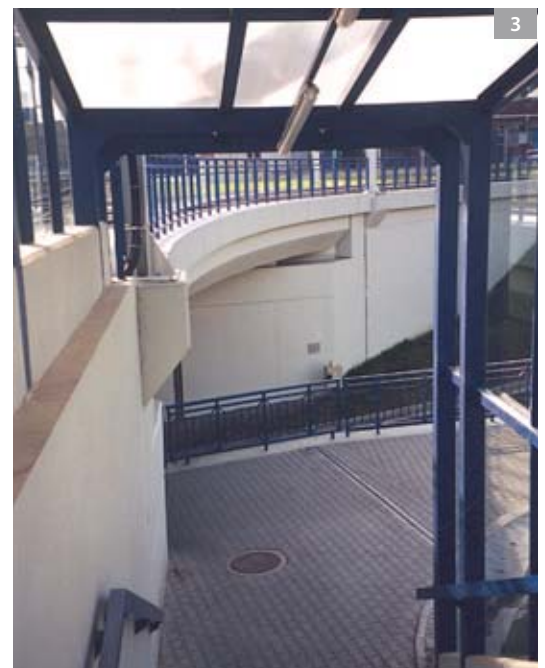
2 **Railway bridge for siding of Precheza Corporation in Přerov over Bečva River**

- A continuous composite concrete-concrete structure
- Prefabricated I-beam of pre-stressed concrete with composite monolithic reinforced concrete slab and reinforced concrete crossbeams
- Continuous embedded ballast bed
- Spans: 5 (17.0 + 3x 23.0 + 17.0 m)
- Foundations: Drill piles



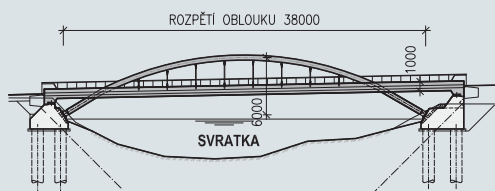
3 **Tram Bridge on Street Místecká in Ostrava**

- Monolithic prestressed parapet structure
- Span: 15.8 m
- Foundations: Drill piles

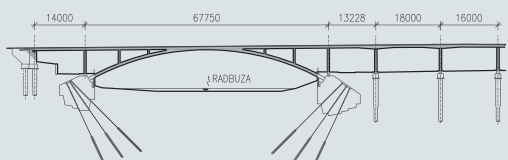




- 1
- ### Bridge over Svratka River in Brno at Kamenný Mlýn
- Steel arch with transverse intermediate prestressed bridge deck
 - Arch span: 38.0 m
 - Rise of arch: 6.0 m
 - Foundations: Drill piles



- 2
- ### Bridge over the Radbuza River in Pilsen
- A pair of reinforced concrete bridges
 - Spans: 14.0 + 67.8 (arch) + 18.0 + 13.3 + 16.0 m
 - Arrangement: 5 fields - in the 2nd field the arch bridge, at 1, 3 to 5 field slab structure
 - Rise of arch: 8.6 m
 - Foundations: Drill piles



TUBOSIDER STRUCTURES



1 Bridge over Podleský potok (creek) – Staré Město pod Landštejnem

- Multi-Plate structure, steel plates thickness 5 mm, type Viacon
- Clear span: 5.2 m
- Total length 20.0 m



2 Bridge over Puklický potok (creek) – Přiseka

- Multi-Plate structure, steel plates thickness 4 mm, type Viacon
- Clear span: 6.52 m
- Total length 30.4 m



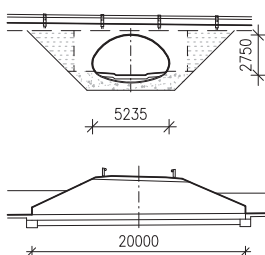
3 Bridge 160-017 - Nahořany

- Multi-Plate structure, steel pipe, type Helcor
- Clear span: 2.01 m
- Total length 16.6 m



4 Bridge – Osiky

- Multi-Plate structure, steel pipe, type Helcor
- Clear span: 3.2 m
- Total length 21.0 m





1

Bridge over the Bělovodský potok (creek) in Červená Voda

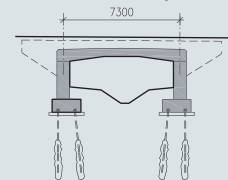
- Monolithic reinforced concrete frame structure with arched beam
- The frame structure is hinged connection
- with reinforced concrete foundations
- Span: 4.5 m.
- Foundations: Shallow



2

Bridge in the cottage colony Zátouň

- Monolithic reinforced concrete buried frame structure with the haunches
- Span: 7.30 m
- Foundations: Drill piles



3

Bridge across the creek Hadinec, Orlické Záhoří

- Monolithic reinforced concrete buried frame structure with a vaulted ceiling (roof arch)
- Clear span: 3.6 m
- Foundations: Shallow

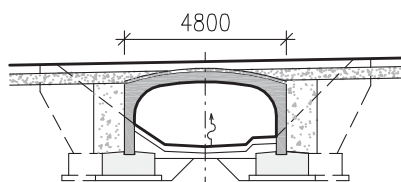


4

Most přes potok Pazderůvka, Dobrá-Tošanovice

Monolitická přespaná železobetonová rámová konstrukce s klenutým stropem, světlosti 4,30 m. Založení plošné.

1



2



3

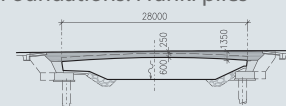




- 1 Bridge over the Nežárka River in Dolní Skrýchov**
- Monolithic prestressed concrete frame with two hinges
 - One-girder structure with haunch and landed consoles.
 - Span: 24 m
 - Foundations: Drill piles



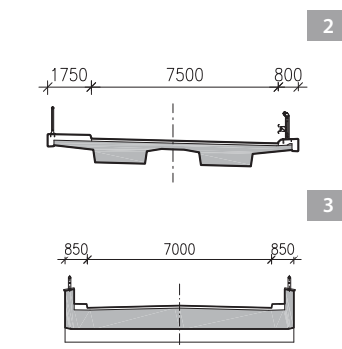
- 2 Bridge over the Moravian Thaya River in the village Písečné**
- Monolithic concrete frame structure
 - Double-girder frame structure, longitudinally prestressed
 - Post-tensioning rods in the walls
 - Span: 26.4 m
 - Foundations: Franki piles



- 3 Bridge in the Jaroměřice Rokytnou**
- Monolithic frame structure of reinforced concrete
 - Span: 21.5 m.
 - The bridge was named a "Prestigious building Highland 2007" and won the competition in public transport structure 2007. It is situated near the castle.



- 4 Bridge over Nežárka River in the local area Horní Žďár**
- Monolithic prestressed concrete frame with two hinges
 - One-girder structure with haunch and landed consoles.
 - Span: 26.2 m
 - Foundations: Shallow



BEAM STRUCTURES II

Structure consisting of precast pre-stressed concrete beams with composite reinforced concrete deck slab and monolithic reinforced-concrete crossbeams.



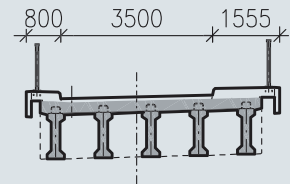
1 **Scaffold bridge across the landfill on the R35 at the Lipník nad Bečvou**

- The continuous I-beams construction
- Spans: 7 (20.0 + 5 × 29.0 + 20.0 m)
- Foundations: Franki piles



2 **Bridge over the Nežárka River in the village Lásenice**

- The I-beams construction, one field
- Span: 23.8 m
- The new structure on the original abutments



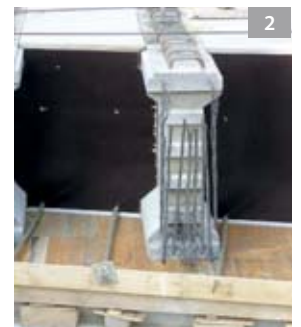
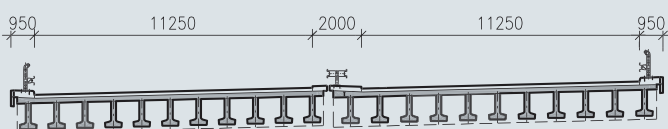
3 **The bridge over the driveway to the quarry on R55 Skalka -Hulin**

- Structure of "VSTI" beams, one field
- Span: 23.0 m
- Foundations: Drill piles



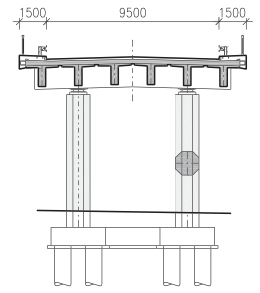
4 **Bridge over the road I/47 at Lipník nad Bečvou**

- Structure of "VSTI" beams
- Spans: 3 (18.0 + 23.5 + 15.0 m)
- Foundations: Drill piles



BEAM STRUCTURES I

Structure consisting of precast prestressed concrete beams with composite reinforced concrete deck slab and monolithic reinforced-concrete crossbeams.



1

idge on road I/11 at Vamberk

- The continuous T-beams construction (pre-stressed)
- Spans: 11 (25.0 + 9× 30.0 + 25.0 m)
- Foundations:



2

The bridge over the highway D2 in Brno in the IKEA site

- The continuous T-beams construction (pre-stressed)
- Spans: 3 (23.0 + 31.3 + 26.0 m)
- Foundations: Franki piles



3

The bridge over the railway line on R55 Skalka-Hulin

- The continuous T-beams construction (pre-stressed)
- Spans: 3 (14.0 + 22.0 + 17.0 m)
- Foundations: Drill piles



4

Bridge over the Elbe River in Brod nad Labem

- The new continuous structure T-beams (pre-stressed)
- Spans: 4 (23.5 + 30.8 + 31.4 + 23.5 m)
- New structure on authentic redeveloped substructure



5

The bridge on the R35 over the railway and Bio-Corridor

- The continuous construction T-beams (pre-stressed)
- Spans: 7 (24.0 + 7× 31.0 + 24.0 m)
- Foundations: Drill piles

COMPOSITE STEEL AND CONCRETE STRUCTURES



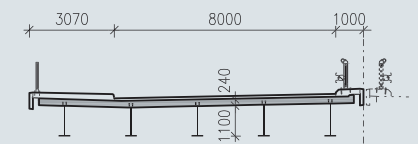
1 Scaffold bridge on the R48 on by-pass road Běloutín

- 2 continuous construction, double girder steel-concrete composite structure (main steel beams with transverse pre-stressed concrete slab)
- Spans: 14 (max. span length 47.0 m)
- Length of the bridge: 583 m
- Foundations: Drill piles



2 North Bridge in the street Českobratrská in Ostrava

- Continuous steel-concrete composite construction
- Spans: 9 (20.5 + 32.0 + 6 × 27.5 + 20.5 m)
- Foundations: Drill piles, partly shallow foundations



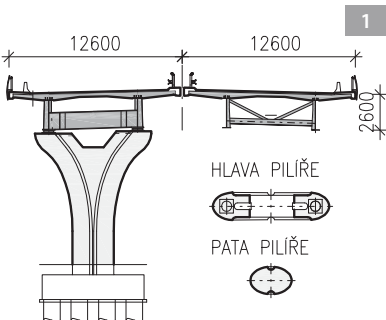
3 Bridge over the Otava River – Annín

- The composite arch structure with a reinforced concrete plate, one field
- Authentic redeveloped substructure.
- Span: 34.0 m.



4 Bridge over Mlýnský potok (creek) in the village Lasenice

- The steel-concrete composite construction of steel I-beams coupled with reinforced concrete deck plate, one field
- Span: 9.0 m
- New structure on authentic repair substructure.

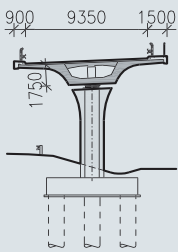


BOX GIRDER STRUCTURES



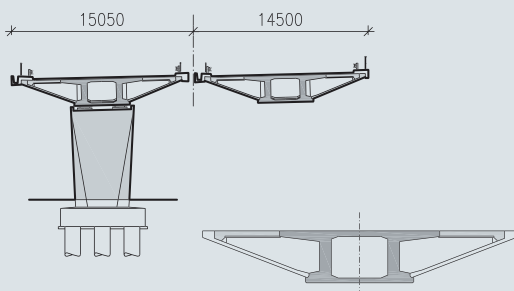
1 Scaffold bridge – ramp ZL - UH over road I/49 on bypass Otrokovice

- Continuous construction unicameral section of prestressed concrete
- Spans: 5 (30.0 + 3× 40.0 + 30.0 m)
- Foundations: Drill piles



2 Bridge at the D5 by Ejpvovice

- Continuous construction of prestressed concrete
- Spans: 5 (32.0 + 3× 40.0 + 32.0 m)
- A combination of monolithic rudiment with prefabricated concrete finish plate and struts





1

Scaffold bridge Uherské Hradiště

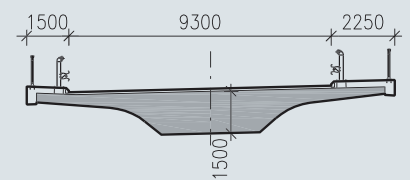
- Continuous double tee girder from prestressed concrete
- 29 fields, main span 38 m
- Construction length: 1011.70 m
- Foundations: Franki piles



2

Overpass R4 on cross-roads Nová Hospoda

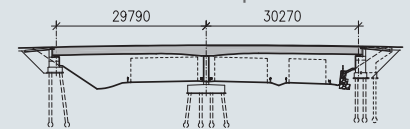
- Continuous tee girder from prestressed concrete
- Spans: 5 (18.0 + 3 × 27.0 + 18.0 m)
- Foundations: Drill piles



3

Overpass R48 Dobrá-Tošanovice

- Continuous tee girder from prestressed concrete
- Spans: 2 (29.79 + 30.27 m)
- Foundations: Franki piles



4

Overpass R48 Dobrá-Tošanovice

- Continuous tee girder from prestressed concrete
- Spans: 4 (20.0 + 30.0 + 30.0 + 20.0 m)
- Foundations: Franki piles



1



2



3



4



1 **Bridge over the road I/47 in Běloutín**

- Continuous monolithic slab structures of prestressed concrete
- Spans: 2 (17.0 + 25.1 + 17.0 m)
- Foundations: Drill piles



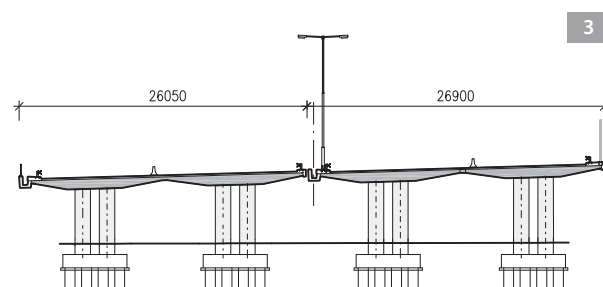
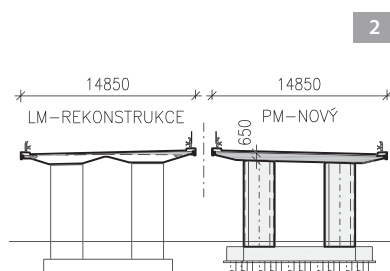
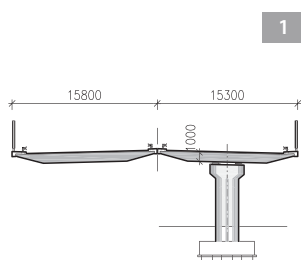
2 **Bridge on the D1 highway in Kroměříž**

- Continuous slab structures
- Spans: 2 (16.0 + 16.0 m)
- Right bridge - new in-situ prestressed concrete bridge
- Left bridge - the reconstruction from the originally built from precast concrete slab



3 **Bridge over the local road and biocorridor**

- Continuous monolithic slab structures of prestressed concrete
- Each of the two trapezoidal plates additionally associated by concrete
- Spans: 2 (12.0 + 18.0 + 12.0 m)





Projekční kancelář PRIS spol. s r.o.

Osová 20
625 00 Brno
Česká republika/Czech Republic

Tel.: +420 547 212 053
Tel./fax: +420 547 214 453
GSM: +420 602 756 176
E-mail: info@pris.cz
<http://www.pris.cz>



Vedení společnosti/ Company Management

Ing. Zdeněk Neudert

E-mail: neudert@pris.cz
Tel.: +420 547 212 235
GSM: +420 724 045 881



Ing. Jiří Šrubař

E-mail: srubar@pris.cz
Tel.: +420 547 212 053
GSM: +420 602 786 210



Ing. Martin Řehulka

E-mail: rehulka@pris.cz
Tel.: +420 547 212 236
GSM: +420 602 470 109

