



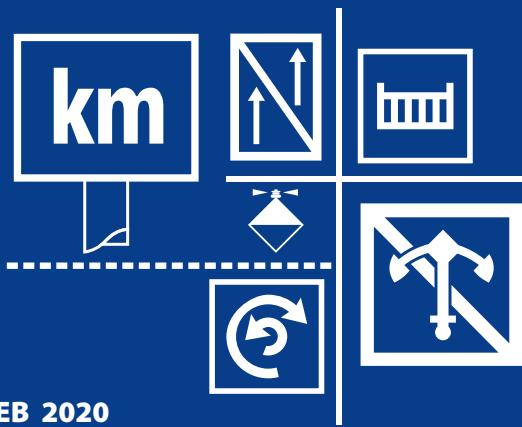
INTERNATIONAL SAVA RIVER BASIN COMMISSION

**MEĐUNARODNA KOMISIJA ZA SLIV RIJEKE SAVE
INTERNATIONAL SAVA RIVER BASIN COMMISSION**

DALJINAR

RIJEKE SAVE I NJEZINIH PLOVNIH PRITOKA

**INDICATOR
OF RIVER KILOMETRES FOR THE SAVA RIVER
AND ITS NAVIGABLE TRIBUTARIES**



ZAGREB 2020

**MEĐUNARODNA KOMISIJA ZA SLIV RIJEKE SAVE
INTERNATIONAL SAVA RIVER BASIN COMMISSION**

**DALJINAR
RIJEKE SAVE I NJEZINIH PLOVNIH PRITOKA**

**INDICATOR
OF RIVER KILOMETRES FOR THE SAVA RIVER
AND ITS NAVIGABLE TRIBUTARIES**



INTERNATIONAL SAVA RIVER BASIN COMMISSION

ZAGREB 2020

Publisher / Nakladnik:

International Sava River Basin Commission
Međunarodna komisija za sliv rijeke Save
Kneza Branimira 29 / II, 10000 Zagreb
Croatia
Tel: +385 1 488 69 60
Fax: + 385 1 488 69 86
E-mail: isrbc@savacommission.org

Editorial board / Urednički odbor

Dragan Zeljko, Željko Milković, Goran Šukalo, Duško Isaković

Edition / Izdanje:

Bilingual / Dvojezično
English / Croatian (B&H)
Engleski / Hrvatski (BiH)

Translation / Prijevod:

Secretariat of the International Sava River Basin Commission
Tajništvo Međunarodne komisije za sliv rijeke Save

Published in / Naklada:

60 copies / primjeraka

Print and Design / Tisk i dizajn:



Foreword

In the period from the year 1990, navigation and transport on the Sava river were, for known reasons, primarily affected by a lack of investments into the waterway maintenance and the waterway infrastructure development, which, nowadays, resulted in a significant decrease of the cargo transport with respect to the year 1990.

A solid basis for gradual overcoming of the problem was set by ratification of the Framework Agreement on the Sava River Basin in December 2004, and by establishment of the International Sava River Basin Commission (Sava Commission) in June 2005.

According to the Framework Agreement, the strategic objective of the Sava Commission is coordination of cooperation among the Sava countries in the water sector, with aim to provide conditions for sustainable development of the basin. The Framework Agreement, which integrates all aspects of water resources management in the basin, stipulates the following three particular objectives of cooperation:

- Establishment of the international navigation regime on the Sava river and its navigable tributaries;
- Establishment of sustainable water management in the basin, and
- Management of hazards, such as floods, droughts, ice and water pollution.

The establishment of the international navigation regime on the Sava river, by respecting, at the same time, the other two objectives, includes the realization of a series of activities related to the rehabilitation and development of waterway infrastructure, improvement of navigation safety and upgrade of the technical standards of navigation, thus providing the conditions for the navigation development in a modern and environmentally sustainable manner.

To this end, the Sava Commission has, so far, developed a set of documents related to navigation and passed decisions on their adoption. Herewith, these documents entered into force and became obligatory for the Sava countries, given the legal capacity of the Sava Commission in the field of navigation, stipulated by the Framework Agreement. In addition, a number of activities have been undertaken together with the Member States in order to improve the waterway infrastructure, including the reestablishment of the marking system, preparation of a share of the planning documentation for the restoration of the waterway, as well as the establishment of the River Information Services (RIS).

“Indicator of River Kilometres for the Sava River and its Navigable Tributaries” aims to provide the respective stakeholders in the Sava river basin (relevant ministries, port authorities, port master offices, boatmasters,

shippers, and other users of the waterway), as well as other organizations and institutions, with an up-to-date overview of all changes of the waterway, which have happened since the last edition of the “Indicator” published in 1960-ies, and hence significantly contribute to navigation safety in the Sava river basin.

For the first time, the “Indicator of River Kilometres” includes the data on riverbank structures being of importance for orientation, planning and the navigation itself. Additionally, a special attention is paid to the waterway sections considered as critical for navigation, which will, hopefully, significantly improve the navigation safety and prevent accidents with potential adverse impacts on the quality of water and water ecosystem of the Sava river.

This is the third, updated edition of the “Indicator”, which confirms that the waterway users in the first place have recognized this publication as useful and helpful in their daily practice.

Zagreb, February 2020

Dragan Zeljko
Secretary of the Sava Commission

Predgovor

Plovidba i transport rijekom Savom u razdoblju od 1990. godine bili su, iz poznatih razloga, prije svega obilježeni nedostatkom investiranja u održavanje vodnog puta i razvoj plovne infrastrukture, zbog čega je transport tereta danas znatno niži u odnosu na razinu iz 1990. godine.

Ratificiranjem Okvirnog sporazuma o slivu rijeke Save krajem 2004. godine i uspostavljanjem Međunarodne komisije za sliv rijeke Save (Savske komisije) sredinom 2005. godine, stvoren je temelj za postupno rješavanje ovog problema.

Prema Okvirnom sporazumu, strateški cilj Savske komisije je koordinacija suradnje savskih država u području voda, radi osiguravanja uvjeta za održivi razvoj slivnog područja. Okvirnim sporazumom, koji sublimira sve aspekte upravljanja vodama na slivu, definirana su tri konkretna cilja ove suradnje:

- uspostavljanje međunarodnog režima plovidbe na Savi i njezinim plovnim pritocima;
- uspostavljanje održivog upravljanja vodama u slivu Save i
- upravljanje hazardima, kao što su poplave, suše, pojave leda i onečišćenja voda.

Uspostavljanje međunarodnog režima plovidbe na Savi, uz istovremeno uvažavanje drugih navedenih ciljeva, podrazumijeva realizaciju niza aktivnosti vezanih za obnovu i razvoj plovne infrastrukture, povećanje sigurnosti i unapređenje tehničkih standarda plovidbe, kojima se stvaraju uvjeti za razvoj plovidbe na suvremen, okolišno održiv način.

U tom cilju, Savska komisija je do danas izradila set dokumenata iz područja plovidbe i donijela odluke o njihovom usvajanju, čime su ovi dokumenti stupili na snagu i postali obvezujući za savske države, s obzirom na pravnu sposobnost u području plovidbe, koja je Savskoj komisiji data Okvirnim sporazumom. Isto tako, zajedno s državama članicama poduzet je niz aktivnosti na unapređenju infrastrukture vodnog puta kao što su uspostava sustava obilježavanja, izrada dijela planske dokumentacije za obnovu plovног puta i uspostava Riječnih informacijskih servisa (RIS).

Cilj "Daljinara rijeke Save i njezinih plovnih pritoka" je zainteresiranim subjektima u slivu rijeke Save (resorna ministarstva, lučke uprave, kapetanije, brodari i drugi neposredni korisnici), ali i drugim organizacijama i institucijama, ponuditi ažurirani prikaz svih promjena nastalih na plovnom putu od posljednjeg izdanja „Daljinara“, šezdesetih godina prošlog stoljeća, čime se očekuje značajan doprinos sigurnosti plovidbe u slivu Save.

U „Daljinaru“ se prvi put prikazuju i objekti na riječnim obalama, značajni sa stajališta orijentacije, planiranja i same plovidbe. Pored toga, posebna pažnja posvećuje se dionicama vodnog puta zahtjevnim za plovidbu, što će, nadamo se, značajno povećati sigurnost plovidbe i sprječiti nezgode koje bi za posljedicu mogle imati i negativne utjecaje na kvalitetu voda i vodnih ekosustava rijeke Save.

Ovo je treće nadopunjeno izdanje “Daljinara” što potvrđuje da su prvenstveno korisnici plovног puta prepoznali ovu publikaciju kao upotrebljivu i korisnu u njihovoj svakodnevnoj praksi.

Zagreb, veljača 2020.

Dragan Zeljko, tajnik Savske komisije



The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the ISRBC

Data sources:
DEM data: The NASA Shuttle Radar Topographic Mission (SRTM)
processed by CIAT-CSI (<http://srtm.csi.cgiar.org>).
USGS
CORINE land cover: EEA (<http://www.eea.europa.eu>)
Other data: ICPDR, ESRI, the Parties to the FASRB (SI, HR, BA, RS)

0 20 40 80 120 160 Km

1:2,000,000

Coordinate system: ETRS 1989
Projection: Lambert Azimuthal Equal Area

Sava River Basin overview map



Legend

Sava RB boundary	Sava RB rivers (Catchments >=1000 sq.km)*
State borders	Sava River
Urban areas	1st order tributary
Continuous urban areas	2nd order tributary
Discontinuous urban areas	3rd order tributary
Industrial or commercial units	Reservoirs (V>=5 mil m3)
Green urban areas	
Sport and leisure facilities	
Capitals of the FASRB Parties	
Urban centers	

*except Sutla/Sotla, Lašva and Tinja



Processed and compiled by the Secretariat of the ISRBC
September 2009

I INTRODUCTION

The Indicator of river kilometres for the Sava River has been developed based on the Work Plan of the Sava Commission Secretariat, and the need to update all changes that have occurred on the fairway since the last edition published in 1960's.

This edition of the Indicator of river kilometres covers the Sava River from rkm 727,1 to its mouth where it discharges into the Danube at rkm 0, and the Kupa River, which is so far the only tributary kept maintained and marked, from the Sava River mouth to rkm 162,6. Depending on commencement of the planned regulation and marking of the tributaries for navigation, the indicator of river kilometres will be upgraded and pursue the arisen changes.

This edition contains all elements necessary for safe navigation and is result of the perennial work and periodical reviews by the competent bodies dealing with waterway issues and hydrological conditions pertaining to the fairway. Unlike the so-far indicators of river kilometres, this one has been prepared in parallel with the newly installed mileage, as well as with application of the new mode of determination of the kilometre marks' positions at certain section. This resulted in resolution of a problem of double kilometre marks, which, pragmatically, an obstacle to realization of the plan on rehabilitation of the international waterway of the Sava River and its navigable tributaries.

The sketches of bridges in this edition feature uniformity and validity of data in terms of width of the navigable aperture, height of the navigable aperture for the high navigable level – maximal water level, as well as the height of the navigable aperture for the ASL "0" at reference gauge station. Each subsequent edition will, following the period of practical use and provided feedback, surely be even more complete and substantial.

The riverbank structures, which are important for orientation and can be of assistance when planning and for navigation as well, have been incorporated into the Indicator of river kilometres for the first time. With regard to navigation, special attention in the Indicator of river kilometres has been paid to the more demanding sections, which will surely raise the level of navigation safety and prevent larger damages on the waterway that could result in detrimental impacts to aquatic ecosystem as well to water quality of the Sava River.

States borders depicted in the Indicator are of orientational character only and can not in any way prejudice determination of official states borders.

Finally, along with the afore-stated, we should underline that the Indicator of river kilometres consists of the following chapters:

- I INTRODUCTION
- II INTERPRETATION OF SYMBOLS
- III WATERWAY SIGNS AND MARKS
- IV SAVA RIVER
- V KUPA RIVER
- VI DISTANCES BETWEEN LARGER CITIES

Indicator is issued with the status of the Marking System on the January 1, 2020. The subsequent editions will be amended and updated in accordance with changes on the fairway, and complete up-to-date versions will always be available in electronic form at the website of the Sava Commission www.savacommission.org.

I UVOD

Daljinac rijeke Save sačinjen je na temelju plana rada Tajništva Savske komisije, kao i potrebe da se ažuriraju sve promjene nastale na vodnom putu od vremena posljednjeg izdanja šezdesetih godina prošlog stoljeća.

Daljinac u ovom izdanju tretira rijeku Savu od rkm 727,1 pa sve do ušća u Dunav na rkm 0 i, rijeku Kupu, za sada jedini održavani i označeni pritok, od ušća u Savu pa do rkm 162,6. Ovisno o početku planskog uređenja i obilježavanja plovnih pritoka za plovidbu, i daljinac će biti dopunjavan te će slijediti sve novonastale promjene.

Ovo izdanje sadrži sve potrebne elemente za sigurnu plovidbu i rezultat je višegodišnjeg rada i povremenih provjera od strane kompetentnih poznavatelja vodnog puta i hidroloških prilika koje na njemu vladaju. Za razliku od dosadašnjih daljinara, ovaj daljinac je pripreman paralelno sa novopostavljenom stacionažom kilometarskih oznaka, a u jednom dijelu je primjenjen i nov način određivanja pozicija kilometarskih oznaka. Rezultat toga je riješen problem duplih kilometara koji je, i objektivno, predstavljao problem pri realizaciji plana rehabilitacije međunarodnog vodnog puta rijeke Save i njezinih plovnih pritoka.

Skice mostova u ovome izdanju karakteriziraju uniformnost i validnost podataka u smislu širine plovnog otvora, visine plovnog otvora za visoki plovni nivo - maksimalni vodostaj, kao i visine plovnog otvora za vodostaj „0“ na referentnom vodomjeru. Svako naredno izdanje će, nakon razdoblja praktične primjene i dobivenih povratnih informacija, zasigurno biti kompletnije i sadržajnije.

Po prvi put se u daljinac uvode i obalni objekti, važni za orijentaciju, koji mogu biti od pomoći kod planiranja i provođenja plovidbe. U pogledu navigacije, u daljinaru je posebna pažnja posvećena zahtjevnim dionicama što će, sigurni smo, uvelike podići razinu sigurnosti plovidbe i spriječiti veće havarije na vodnom putu koje bi za posljedicu mogle imati štetne utjecaje na akvatične ekosustave i kakvoću voda rijeke Save.

Oznake granica između država u Daljinaru isključivo su orijentacijske naravi i ni na koji način ne prejudiciraju utvrđivanje službenih granica između država.

Na kraju, pored svega navedenog, važno je istaknuti da se Daljinac sastoji od pet poglavlja i to:

- I UVOD
- II KAZALO SIMBOLA
- III PLOVIDBENI ZNAKOVI I OZNAKE
- IV RIJEKA SAVA
- V RIJEKA KUPA
- VI UDALJENOSTI IZMEĐU VEĆIH GRADOVA

Daljinar se izdaje sa stanjem obilježenosti na dan 1. siječnja 2020. godine. Naredna izdanja će biti dopunjavana i ažurirana u skladu s promjenama na vodnom putu, a potpuno ažurno izdanje u elektroničkoj formi bit će uvijek dostupno na službenoj web stranici Savske komisije www.savacommission.org

II

INTERPRETATION OF SYMBOLS KAZALO SIMBOLA



Post; Telephone

Pošta; Telefon



Medical corps

Sanitetska služba



Border crossing

Granični prijelaz



Customs

Carina



Port Master

Kapetanija



Water construction administration

Uprava za vodogradnju



Port authority

Lučka uprava



Navigation safety inspection

Inspekcija sigurnosti plovidbe



Winterport

Zimovnik



Winter Shelter

Zimsko sklonište



Shipyard

Brodogradilište



Bunkering station

Mjesto za opskrbu plovila gorivom



Railway station

Željeznička postaja



Port linked to the railway network

Luka vezana na željezničku mrežu

	Reloading site Pretovorno mjesto
	Passenger terminal Putnički pristan
	Pilot station Pilotska postaja
	Encountering spot Mjesto za susretanje
	Afor signal of locks Predsignal prevodnice
	Call signal for locks Pozivni signal za prevodnice
	Inbound signal for locks Uzalni signal za prevodnice
↑	Sign for bridge passage-upstream Signal spot-upstream Znak za prolaz ispod mosta-uzvodno Signalno mjesto-uzvodno
↓	Sign for bridge passage-downstream Signal spot-downstream Znak za prolaz ispod mosta-nizvodno Signalno mjesto-nizvodno
↔	Sign for bridge passage-upstream and downstream Signal spot-upstream and downstream Znak za prolaz ispod mosta-uzvodno i nizvodno Signalno mjesto-uzvodno i nizvodno
	Height indicator for bridge passage Pokazivač visine za prolaz ispod mosta
	Signal station Signalna stanica



Underwater duct

Podvodni vod

Power-transmission line with height indicator above the highest navigability level in m

Dalekovod s pokazivačem (mjerilom) visine iznad najvišeg plovnog nivoa u m



a) High-voltage duct

a) Visokonaponski vod



b) Telephone duct

Telefonski vod



Ferryboat not moving independently-cord hanging or at the bottom

Skela koja ne plovi slobodno-sajla viseća ili na dnu (visina sajle u m)



Ferryboat moving independently

Slobodna skela

+50;+158;+630;

Water gauge; absolute zero mark of the water gauge above the sea (altitude) in meters; low regulation navigability level.

Mark “-“ indicates absence of navigability level data

+50;+158;+630;

Vodomjer; apsolutna nulta točka vodomjera nad morem (nadmorska visina) u metrima; regulacijski niski plovni nivo; visoki plovni nivo. Oznaka <> ukazuje na nepostojanje podataka o plovnim nivoima



Indicator of the water level on the water gauge and shoal depth

Pokazivač razine vode na vodomjeru i dubine plićaka

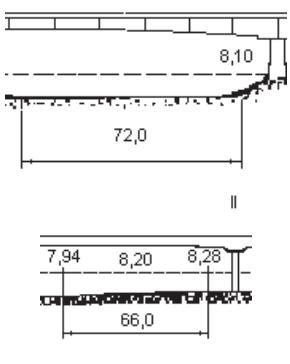


Pličak



Sredina ade

	Upper and lower end of effluent (lateral effluent) closed by bulkhead; island linked with bank by bulkhead Gornji i donji kraj rukavca (bočnog rukavca), koji je zatvoren pregradom; ada, koja je pregradom povezana s obalom
	At low water level, the drained upper or lower part of the effluent (lateral effluent); at low water level, the island linked with bank by sandbar Kod niske vode isušeni gornji ili donji dio rukavca (bočnog rukavca), kod niske vode ostrvo spojeno preko spruda s obalom
	Danger signal (yellow board) Znak opasnosti (žuta tabla)
	Sunken object Potopljeni objekt
	Pumping station Crpna postaja
	Water Supply Facility Cjevasti bunar
	Water Supply Facility Reni bunar
	Mouth Ušće
	Settlements with < 10 000 inhabitants Naselja do 10 000 stanovnika
	Settlements with 10 000–100 000 inhabitants Naselja od 10 000-100 000 stanovnika
	Settlements with > 100 000 inhabitants Naselja preko 100 000 stanovnika
Davor (1,5)	Distance from the bank to the settlement in km Udaljenost od obale do nekog mjesta u km



Height of the lighted aperture of navigation passage - vertical distance of the high navigability level or peak water level - water level of 100 year recurrence period and lower brink of the bridge construction (h_{nvpn} or h_{100}). The waterway width in navigable aperture (b_{pl}).

Visina svijetlog otvora plovidbenog prolaza - vertikalna udaljenost visokog plovidbenog nivoa ili maksimalnog vodostaja - stogodišnje vode i donjeg ruba konstrukcije mosta (h_{nvpn} ili h_{100}). Širina plovnog puta u plovnom otvoru (b_{pl}).

III

WATERWAY SIGNS AND MARKS

PLOVIDBENI ZNAKOVI I OZNAKE

A PROHIBITORY SIGNS ZNAKOVI ZABRANE



- A.1a No entry (general sign)
Zabrana prolaza (opći znak)



- A.2 No overtaking
Zabrana pretjecanja



- A.3 No overtaking of convoys by convoys
Zabrana međusobnog pretjecanja sastava



- A.4 No passing or overtaking
Zabrana mimoilaženja i pretjecanja



- A.4.1 No passing or overtaking of convoys by convoys
Zabrana međusobnog mimoilaženja i pretjecanja sastava



- A.5 No berthing (i.e. no anchoring or making fast to the bank)
Zabrana stajanja (npr. sidrenja ili vezivanja uz obalu)



- A.5.1 No berthing within the breadth indicated in metres (measured from the sign)
Zabrana stajanja na širini označenoj u metrima



- A.6 No anchoring or trailing of anchors, cables or chains
Zabrana sidrenja ili vučenja sidara, užadi i lanaca



- A.7 No making fast to the bank
Zabrana vezivanja uz obalu



- A.8 No turning
Zabrana okretanja



- A.9a Do not create wash
Zabrana stvaranja valova



- A.10 No passing outside the area marked (in openings of bridges or weirs)
Zabrana prolaza izvan označenog prostora (u otvorima mostova ili brana)

- | | | |
|--|-------|--|
|  | A.12 | Motorized craft prohibited
Zabrana plovidbe za motorna plovila |
|  | A.13 | Sports or pleasure craft prohibited
Zabrana za sva sportska plovila i plovila za razonodu |
|  | A.14 | Water skiing prohibited
Zabrana skijanja na vodi |
|  | A.15 | Sailing vessels prohibited
Zabrana plovidbe za plovila na jedra |
|  | A.16 | All craft other than motorized vessels or sailing craft prohibited
Zabrana plovidbe za sva plovila osim motornih plovila i plovila na jedra |
|  | A.17 | Use of sailboards prohibited
Zabrana jedrenja na dasci |
|  | A.18 | End of zone authorized for high speed navigation of small sport and pleasure craft
Završetak zone dozvoljene za glisiranje čamaca za sport i razonodu |
|  | A.19 | No launching or beaching of vessels
Zabrana spuštanja ili izvlačenja plovila |
|  | A.20 | Water bikes prohibited
Zabranjena vožnja skuterima |
| B MANDATORY SIGNS | | |
| ZNAKOVI OBVEZE | | |
|  | B.1 | Proceed in the direction shown by the arrow
Obveza plovidbe pravcem koji označava strelica |
|  | B.2.a | Move to the side of the fairway on your port side
Obveza skretanja prema lijevoj strani plovnog puta |
|  | B.2.b | Move to the side of the fairway on your starboard side
Obveza skretanja prema desnoj strani plovnog puta |
|  | B.3.a | Keep to the side of the fairway on your port side
Obveza plovidbe lijevom stranom plovnog puta |

	B.3.b	Keep to the side of the fairway on your starboard side Obveza plovidbe desnom stranom plovnog puta
	B.4.a	Cross fairway to port Obveza prelaska preko plovnog puta na vašu lijevu stranu
	B.4.b	Cross fairway to starboard Obveza prelaska preko plovnog puta na vašu desnu stranu
	B.5	Stop as prescribed in the Regulations Obveza zaustavljanja kako je propisano Pravilima
	B.6	Do not exceed the speed indicated in km/h) Obveza poštivanja ograničenja brzine naznačene na znaku (u km/h)
	B.7	Give a sound signal Obveza davanja zvučnog signala
	B.8	Keep a particularly sharp lookout Obveza obraćanja posebne pozornosti
	B.9.a	Do not enter or cross the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed
	B.9.b	Ne ulaziti na glavni vodni put niti ga prelaziti ukoliko plovila na njemu zbog toga moraju mijenjati svoj kurs i brzinu
	B.11.a	Obligation to enter into a radiotelephone link Obveza uspostave radiotefonske veze
	B.11.b	Obligation to enter into a radiotelephone link on the channel as indicated on the board Obveza uspostave radiotefonske veze na naznačenom kanalu
C		RESTRICTIVE SIGNS ZNAKOVI OGRANIČENJA
	C.1a	Depth of water limited
	C.1b	Ograničena dubina vode



C.2a

Headroom limited
Ograničena visina prolaza



C.2b



C.3a

Width of passage or fairway limited
Ograničena širina plovnog puta ili prolaza



C.3b



C.4

There are restrictions on navigation: see the information plate below the sign

Postoje ograničenja u plovidbi; vidi dodatnu informativnu tablu ispod znaka



C.5

The channel lies at a distance from the right (left) bank; the figure shown on the sign indicates the distance in metres, measured from the sign, to which vessels should keep

Plovni put leži na određenoj udaljenosti od lijeve ili desne obale; broj na znaku označava udaljenost u metrima, mjerenu od znaka, na kojoj se plovila trebaju držati

D

RECOMMENDATORY SIGNS

ZNAKOVI PREPORUKE

D.1

Recommended opening
Preporučeni otvor



D.1.a

in both directions
za plovidbu u oba smjera



D.1.c

only in the direction indicated (passage in the opposite direction prohibited)

or/ili

samo za plovidbu u naznačenom smjeru (plovidba u suprotnom smjeru zabranjena)



D.1.d

You are recommended to keep within the area indicated (in openings of bridges or weirs)

Preporučuje se ploviti unutar označenog prostora (u otvorima mostova ili brana)



D.2.a

You are recommended to keep within the area indicated (in openings of bridges or weirs)

Preporučuje se ploviti unutar označenog prostora (u otvorima mostova ili brana)



D.3.a

You are recommended to proceed in the direction shown by the arrow

Preporučuje se ploviti u smjeru koji označava strelica

**E INFORMATIVE SIGNS
ZNAKOVI OBAVJEŠTENJA**

	E.1a	Entry permitted (general sign) Dozvoljen prolaz (opći znak)
	E.2	Overhead cable crossing Nadvodni kabel
	E.3	Weir Brana
	E.4.a	Ferry-boat not moving independently Skela koja ne plovi slobodno
	E.4.b	Ferry-boat moving independently Skela koja slobodno plovi
	E.5	Berthing (i.e. anchoring or making fast to the bank) permitted Dozvoljeno stajanje (npr. sidrenje ili vezivanje uz obalu)
	E.5.1	Berthing permitted on the stretch of water of the breadth measured from, and shown on the board in metres Dozvoljeno stajanje na širini naznačenoj na tabli i mjerenoj od znaka u metrima
	E.5.2	Berthing permitted on the stretch of water bounded by the two distances measured from, and shown on the board in metres Dozvoljeno stajanje na dijelu vode ograničenom dvjema udaljenosti s table i mjereno od znaka
	E.5.3	Maximum number of vessels permitted to berth abreast Maksimalan broj plovila koja mogu stajati vezana uz bok
	E.5.4	Berthing area reserved for pushing-navigation vessels that are not required to carry the marking prescribed in article 3.14 from Navigation Rules on the Sava River Basin Mjesto za stajanje plovila potiskivane tehnologije koja ne moraju pokazivati oznake propisane u članku 3.14 Pravila plovidbe u slivu rijeke Save
	E.5.5	Berthing area reserved for pushing-navigation vessels that are required to carry one blue light or one blue cone prescribed in article 3.14, para 1 from Navigation Rules on the Sava River Basin Mjesto za stajanje plovila potiskivane tehnologije koja moraju pokazivati jedno plavo svjetlo ili jedan plavi konus propisane u članku 3.14, stavku 1 Pravila plovidbe u slivu rijeke Save



E.5.6

Berthing area reserved for pushing-navigation vessels that are required to carry two blue lights or two blue cones prescribed in article 3.14, para 2 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila potiskivane tehnologije koja moraju pokazivati dva plava svjetla ili dva plava konusa propisane u članku 3.14, stavku 2 Pravila plovidbe u slivu rijeke Save



E.5.7

Berthing area reserved for pushing-navigation vessels that are required to carry three blue lights or three blue cones prescribed in article 3.14, para 3 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila potiskivane tehnologije koja moraju pokazivati tri plava svjetla ili tri plava konusa propisane u članku 3.14, stavku 3 Pravila plovidbe u slivu rijeke Save



E.5.8

Berthing area reserved for vessels other than pushing-navigation vessels that are not required to carry the marking prescribed in article 3.14 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i ne moraju pokazivati oznake propisane u članku 3.14 Pravila plovidbe na slivu rijeke Save



E.5.9

Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry one blue light or one blue cone prescribed in article 3.14, para 1 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i moraju pokazivati jedno plavo svjetlo ili jedan plavi konus propisane u članku 3.14, stavak 1 Pravila plovidbe u slivu rijeke Save



E.5.10

Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry two blue lights or two blue cones prescribed in article 3.14, para 2 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i moraju pokazivati dva plava svjetla ili dva plava konusa propisane u članku 3.14, stavku 2 Pravila plovidbe na slivu rijeke Save



E.5.11

Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry three blue lights or three blue cones prescribed in article 3.14, para 3 from Navigation Rules on the Sava River Basin

Mjesto za stajanje plovila koja nisu potiskivane tehnologije i moraju pokazivati tri plava svjetla ili tri plava konusa propisane u članku 3.14, stavku 3 Pravila plovidbe na slivu rijeke Save



E.5.12

Berthing area reserved for all vessels that are not required to carry the marking prescribed in article 3.14 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja ne moraju pokazivati oznake propisane u članku 3.14 Pravila plovidbe na slivu rijeke Save



E.5.13

Berthing area reserved for all vessels that are required to carry one blue light or one blue cone prescribed in article 3.14, para 1 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja moraju pokazivati jedno plavo svjetlo ili jedan plavi konus propisane u članku 3.14, stavak 1 Pravila plovidbe na slivu rijeke Save



E.5.14

Berthing area reserved for all vessels that are required to carry two blue lights or two blue cones prescribed in article 3.14, para 2 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja moraju pokazivati dva plava svjetla ili dva plava konusa propisane u članku 3.14, stavku 2 Pravila plovidbe na slivu rijeke Save



E.5.15

Berthing area reserved for all vessels that are required to carry three blue lights or three blue cones prescribed in article 3.14, para 3 from Navigation Rules on the Sava River Basin

Mjesto za stajanje za sva plovila koja moraju pokazivati tri plava svjetla ili tri plava konusa propisane u članku 3.14, stavku 3 Pravila plovidbe na slivu rijeke Save



E.6

Anchoring or trailing of anchors, cables or chains permitted

Dozvoljeno sidrenje ili vučenje sidara, užadi ili lanaca

	E.7	Marking fast to the bank permitted Dozvoljeno vezivanje za obalu
	E.7.1	Berthing area reserved for loading and unloading vehicles. (Maximum duration of berthing permitted may be added on an information plate below the board) Mjesto za stajanje rezervirano za utovar ili istovar vozila (najduže dozvoljeno vrijeme stajanja može biti naznačeno na dodatnoj tabli ispod znaka)
	E.8	Turning area Mjesto za okretanje
	E.9.a	The waterway being approached are considered to be tributaries of this waterway
	E.9.b	Vodni putovi na koje se nailazi smatraju se pritocima
	E.10.a	This waterway is considered to a tributary of the waterway being approached
	E.10.b	Vodni put na koji se nailazi smatra se glavnim
	E.11a or/ili E.11b	End of a prohibition or obligation applying to traffic in one direction only, or end of a restriction Prestanak zabrane ili obveze koja se primjenjuje na promet u jednom smjeru ili prestanak ograničenja
	E.13	Drinking-water supply Mjesto za opskrbu pitkom vodom
	E.14	Telephone Telefon
	E.15	Motorized vessels permitted Dozvoljena plovidba za motorna plovila
	E.16	Sports or pleasure craft permitted Dozvoljena plovidba plovilima za sport i razonodu
	E.17	Water skiing permitted Dozvoljeno skijanje na vodi

	E.18	Sailing vessels permitted Dozvoljena plovidba za plovila na jedra
	E.19	Craft other than motorized vessels or sailing craft permitted Dozvoljena plovidba za plovila koja nisu jedrilice ili motorna plovila
	E.20	Use of sailboards permitted Dozvoljena plovidba na daskama za jedrenje
	E.21	Zone authorized for high speed navigation of small sport and pleasure craft Zona dozvoljena za glisiranje čamaca za sport i razonodu
	E.22	Launching or beaching of vessels permitted Dozvoljeno spuštanje ili izvlačenje plovila iz vode
	E.23	Possibility of obtaining nautical information by radio-telephone on the channel indicated Mogućnost dobijanja nautičkih informacija putem radio telefona na naznačenom kanalu
	E.24	Water bikes permitted Dozvoljeno za skutere
	E.25	Electrical power supply point Mjesto za snabdijevanje električnom energijom
	E.26	Winter harbour Zimovnik
	E.26.1	Maximum number of vessels allowed to berth in the winter harbour Najveći broj plovila za koje je dopušteno stajanje u zimovniku
	E.27	Winter Shelter Zimsko sklonište
		Maximum number of vessels allowed to berth in the winter shelter - Maximum number of vessels permitted to berth abreast - Maximum number of rows of vessels permitted to berth abreast
	E.27.1	Najveći broj plovila za koje je dopušteno stajanje u zimskom skloništu - Najveći broj plovila vezanih bočno - Najveći broj redova plovila vezanih bočno

MARKS ON LAND INDICATING THE POSITION
OF THE FAIRWAY
OZNAKE NA OBALI KOJE OZNAČAVAJU POLOŽAJ
PLOVNOG PUTA



- 4.A Fairway near the right bank - with light
Plovni put pored desne obale - sa svjetlom



- 5.A Fairway near the left bank - with light
Plovni put pored lijeve obale - sa svjetlom



- 4.D Cross-over - right bank without light
Prijelaz plovnog puta - desna obala - bez svjetla



- 5.D Cross-over - left bank without light
Prijelaz plovnog puta - lijeva obala - bez svjetla

MARKS INDICATING DANGER POINTS AND
OBSTACLES
OZNAKE ZA OBILJEŽAVANJE OPASNIH MJESTA
I PREPREKA



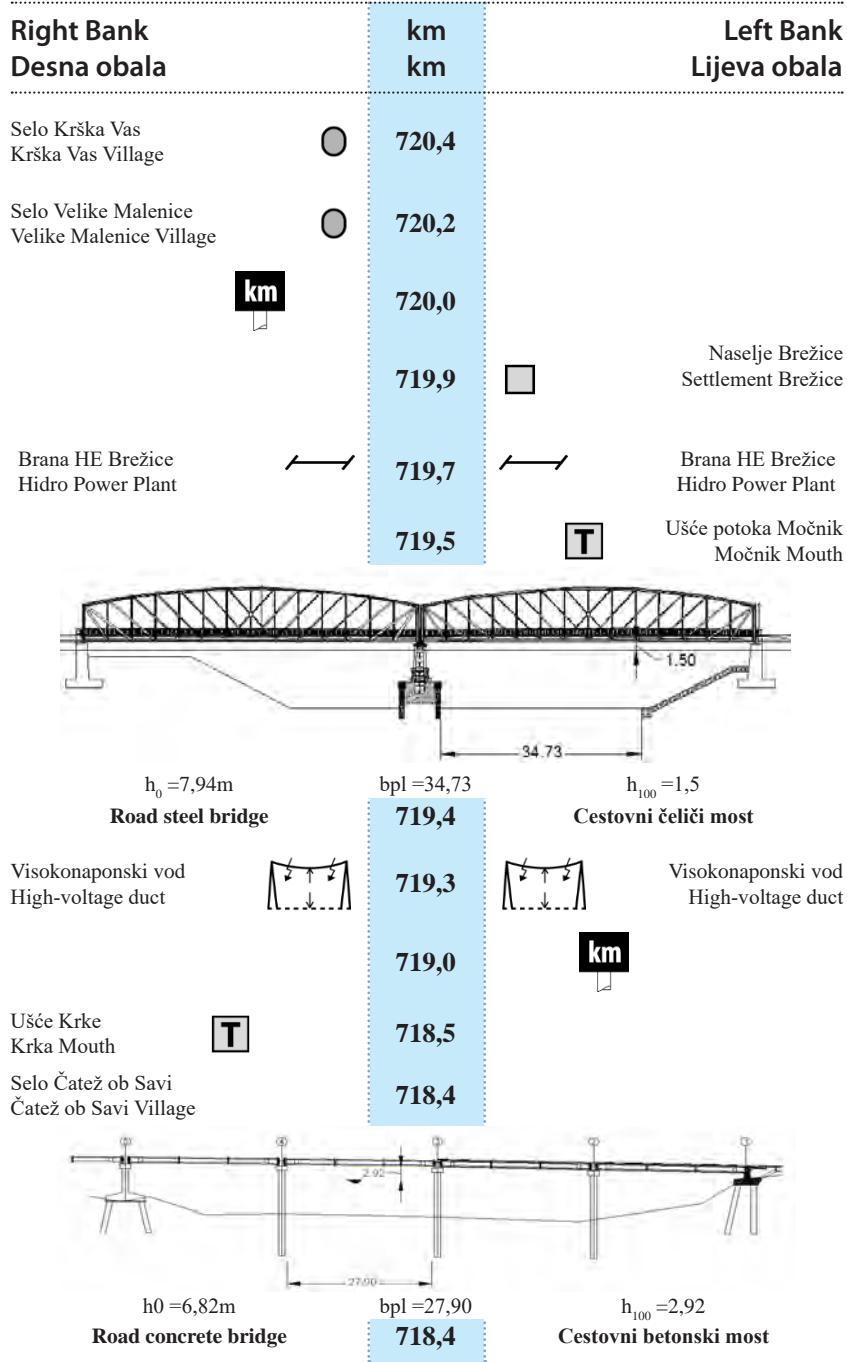
- 4.F Right-hand side
Desna strana



- 5.F Left-hand side
Lijeva strana

IV
SAVA RIVER
RIJEKA SAVA

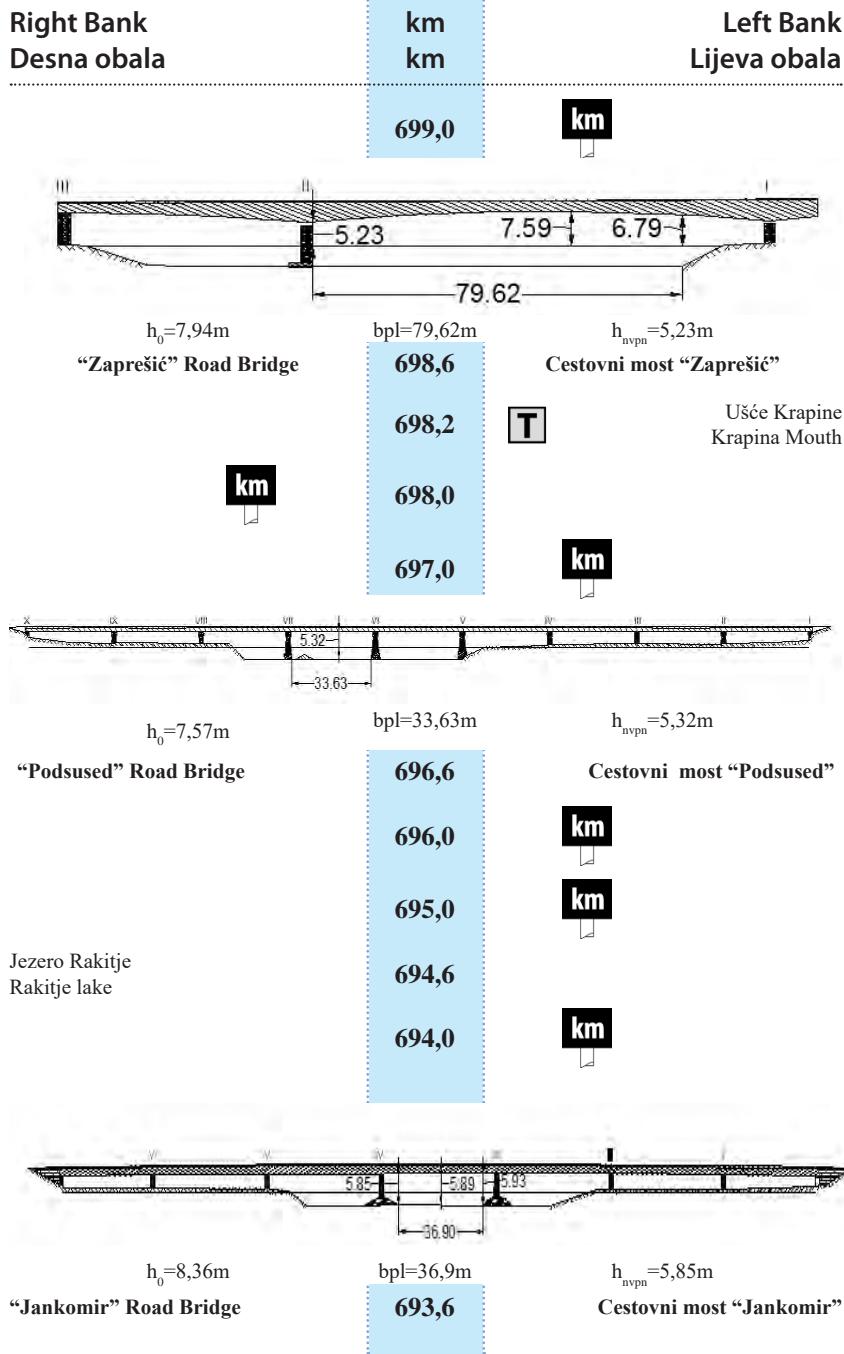
Right Bank Desna obala	km km	Left Bank Lijeva obala
Pegrada	727,1	Pregrada Nuklearna elektrana Krško Krško Nuclear Power Plant
	727,1	Selo Spodnja Libna Spodnja Libna Village
	727,0	Selo Libna Libna Village
	726,6	Selo Spodnji Stari Grad Spodnji Stari Grad Village
	726,0	
Selo Vihre Vihre Village	725,4	
	725,0	
	724,0	
	723,9	Selo Pesje Pesje Village
	723,7	Selo Zgornji Obrež Zgornji Obrež Village
	723,5	Selo Gorenji Lenart Gorenji Lenart Village
	723,0	
Selo Gorenje Skopice Gorenje Skopice Village	722,4	
Selo Dolenje Skopice Dolenje Skopice Village	722,0	
	721,0	



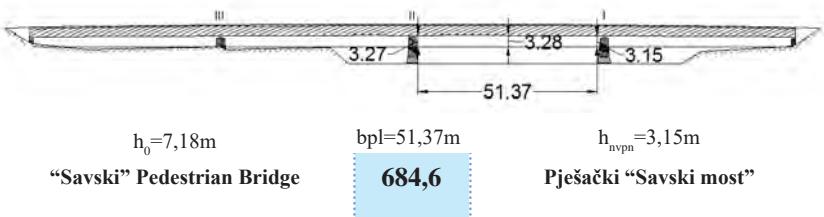
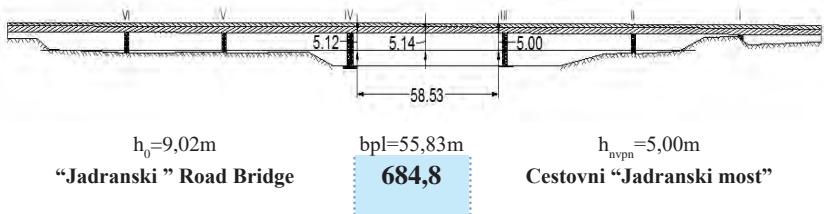
Right Bank Desna obala	km km	Left Bank Lijeva obala
Selo Cerina Cerina Village	718,2	
Selo Dvorce Dvorce Village	718,0	km
Vodomjer Čatež I Gauge	717,9	
Visokonaponski vod High-voltage duct	717,3	Visokonaponski vod High-voltage duct
Brzaci - Pličak Overfalls - Shoal	717,2	Brzaci - Pličak Overfalls - Shoal
km	717,0	
	716,9	Selo Bukošek Bukošek Village
Skelski prelaz Ferry Resort i kamp Terme Čatež SPA and Camp Terme Čatež	716,4	Selo Mostec Mostec Village Skelski prelaz Ferry
km	716,0	
	715,8	Selo Gabrje pri Dobovi Gabrje pri Dobovi Village
	715,3	Selo Dobova Dobova Village
	715,0	km
Selo Prilipe Prilipe Village	714,5	
km	714,0	
	713,9	Ušće Gabrnice Gabrnica Mouth
Ušće Orehovca Orehovac Mouth	713,5	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Selo Podgračeno Podgračeno Village	713,2	
	713,0	
	712,9	 Ušće Gabrnice Gabrnica Mouth
Visokonaponski vod High-voltage duct	712,8	 Visokonaponski vod High-voltage duct
	712,7	 Selo Loče Loče Village
Selo Gaj Gaj Village	712,5	
 Ušće Grajskog potoka Grajski potok Mouth	712,4	
Selo Velika Dolina Velika Dolina Village	712,3	
	712,0	
	711,8	 Ušće potoka Strug Strug Mouth
	711,0	
	710,5	 Ušće Sutle Sutla Mouth
Selo Rajec Rajec Village	710,2	
 Ušće Dolinskog potoka Dolinski potok Mouth	710,2	
Selo Nova Vas pri Mokricah Nova Vas pri Mokricah Village	710,1	
	710,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Selo Jesenice na Dolenjskem Jesenice na Dolenjskem Village Vodomjer Gauge	709,7	
Selo Obrežje Obrežje Village	709,0	km
	708,0	
Ušće Bregane Bregana Mouth	707,6	
	707,0	
Selo Samoborski Otok Samoborski Otok Village Skelska rampa Ferry slip	706,6	
	706,0	
	705,0	
	704,0	
Ušće potoka Creek Mouth	703,2	
	703,0	
Selo Medsave Medsave Village Skela Medsave Ferry	702,2	Skela Medsave Ferry
	702,0	
	701,0	
	700,0	



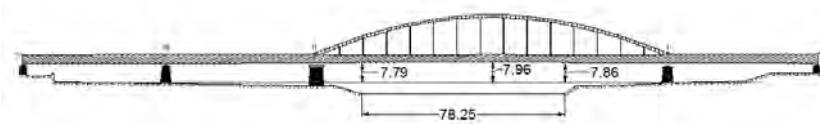
Right Bank Desna obala	km km	Left Bank Lijeva obala
	693,0	km
	692,0	km
	691,0	km Prelev Jankomir (rkm 691,0- 692,0) Spil Weir
	690,0	km
	689,0	km
	688,0	km
	687,0	km
	686,2	Sportsko-rekreacjski centar "Jarun" Jarun Sports and Recreation Center
	686,0	km
	685,2	T Ušće kanala Channae Mouth
	685,0	km



Right Bank
Desna obala

km
km

Left Bank
Lijeva obala



684,4

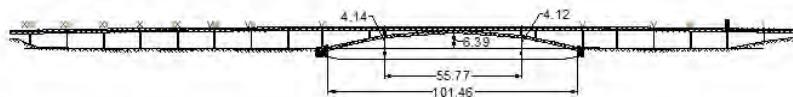
684,0

683,0

Željeznički most “Sava-Zeleni”

km

km



682,8

682,8

682,0

681,0

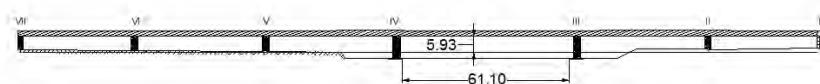
Cestovni “Most Sloboda”

Zagreb City



Grad Zagreb

Rekreacijski Centar “Bundek”
Bundek Recreation Center



680,7

680,0

679,5

679,0

678,0

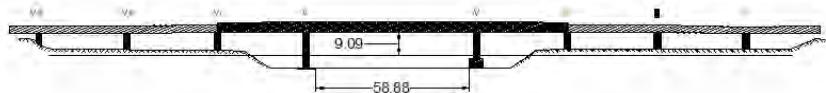
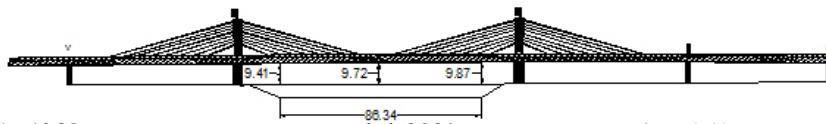
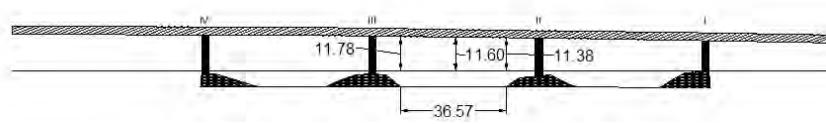
Cestovni “Most Mladosti”

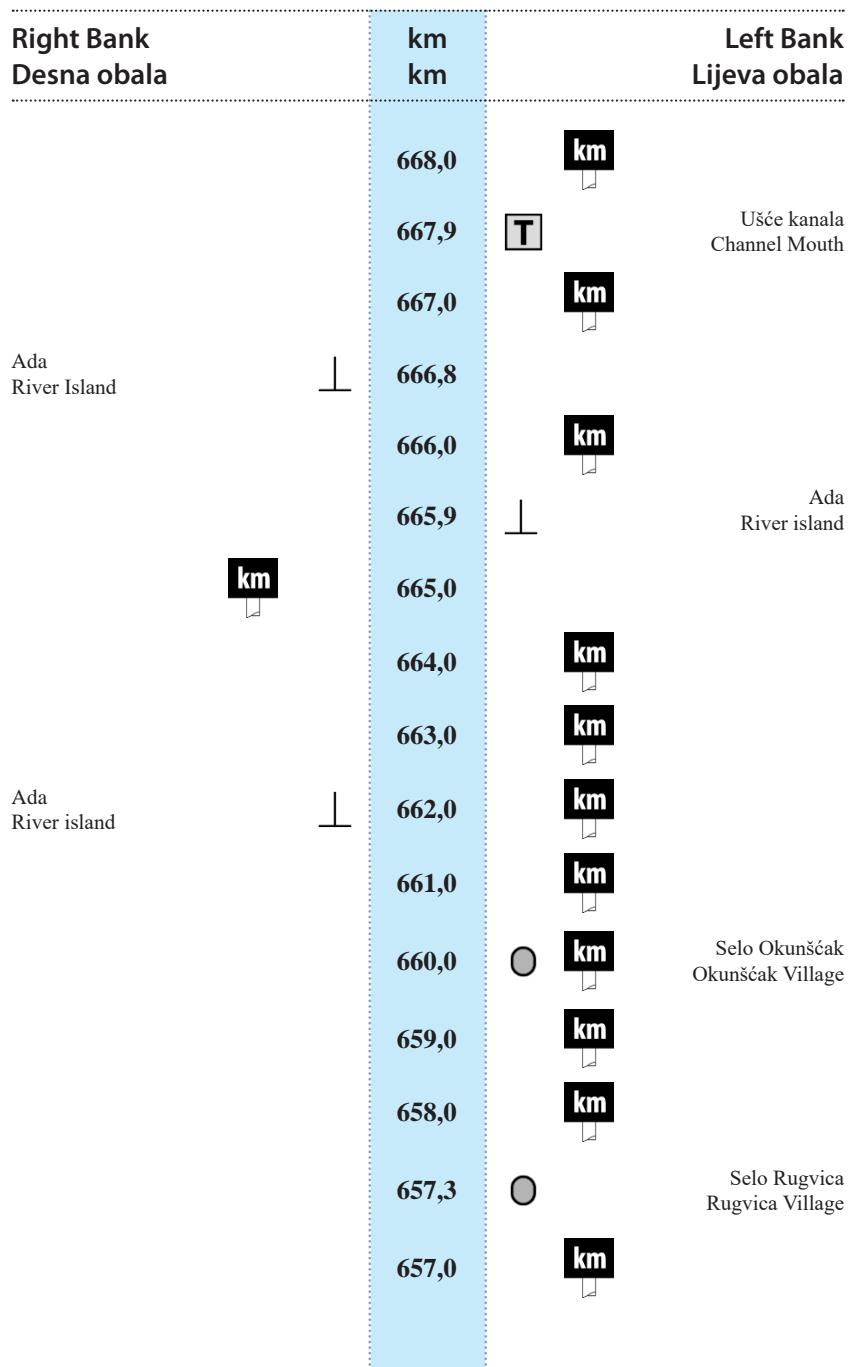
km

Prag “Toplana”
“Heating plant” Weir

km

km

Right Bank Desna obala	km km	Left Bank Lijeva obala
	677,0	km
	bpl=58,88m	$h_{nvpn} = 9,09m$ Željeznički most "Mičevac"
"Mičevac" Railway Bridge	676,3	km
	676,0	km
	675,0	km
	674,0	km
	bpl=86,34m	$h_{nvpn} = 9,41m$ Cestovni most "Domovinski most"
"Domovinski" Road Bridge	673,7	km
	673,0	km
	672,0	km
	671,0	km
	670,0	km
	669,0	km
	bpl=36,57m	$h_{nvpn} = 11,38m$ Cestovni most "Ivana Reka"
"Ivana Reka" Road Bridge	668,8	



Right Bank Desna obala	km km	Left Bank Lijeva obala		
	656,0			
Telefonski vod Telephone duct		655,8	Telefonski vod Telephone duct	
Selo Gornje Bukevje Gornje Bukevje Village		655,2		Selo Novaki Oborovski Novaki Oborovski Village
	655,0			
Selo Donje Bukevje Donje Bukevje Village		654,5		
	654,0			
	653,0			
	652,8		Selo Preseka Oborovska Preseka Oborovska Village	
	652,0			
	651,0			
Selo Drnek Drnek Village		650,5		
	650,0			
Skela Oborovo-Orle Ferry		649,6		Selo Oborovo Skela Oborovo-Orle Ferry
	649,0			
Selo Vrbovo Posavsko Vrbovo Posavsko Village		648,0		
Visokonaponski vod High-voltage duct		647,1	Visokonaponski vod High-voltage duct	

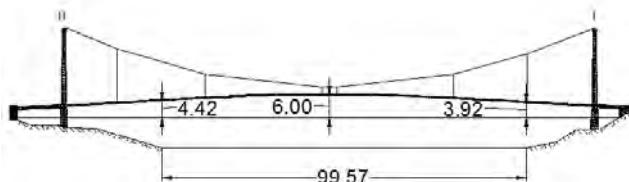
Right Bank Desna obala	km km	Left Bank Ljeva obala
	km	647,0
	646,4	Pregrada Closure Bund Prokop-Rukavac Oborovo Armlet (rkm 646,4-646,9)
	646,0	
	645,0	km
	644,5	Selo Prevlaka Prevlaka Village
	644,0	km
	643,4	Krivina Curve Ustava Prevlaka Prevlaka sluice
	643,0	km
	642,0	Selo Prečno Prečno Village
	641,0	km
Selo Ruča Ruča Village	640,0	km
Selo Suša Suša Village	639,0	Selo Prerovec Prerovec Village
	638,0	km
Selo Jezero Posavsko Jezero Posavsko Village	637,0	km
	636,0	km

Right Bank Desna obala	km km	Left Bank Lijeva obala
Selo Desni Dubrovčak Desni Dubrovčak Village Skela Dubrovčak Ferry	635,2	Selo Lijevi Dubrovčak Lijevi Dubrovčak village Skela Dubrovčak Ferry
	635,0	km
	634,0	km
●	633,0	km
	632,0	km
Selo Desno Željezno Desno Željezno Village	631,2	Selo Lijevo Željezno Lijevo Željezno Village
	631,0	km
	630,0	km
●	629,0	km
	628,0	km
	627,0	Krivina Trebarjevo Trebarjevo Curve
km	626,0	
Selo Desno Trebarjevo Desno Trebarjevo Village	625,0	Selo Lijevo Trebarjevo Lijevo Trebarjevo Village
km	624,0	
	623,0	km

Right Bank
Desna obala

km
km

Left Bank
Ljeva obala



$$h_0 = 11,71 \text{ m}$$

Martinska Ves road bridge
(suspended)

Selo Martinska Ves
Martinska Ves Village
Pošta, Ambulanta
Post, Ambulance

Skelska rampa
Ferry slip



$$\text{bpl} = 99,57 \text{ m}$$

622,8

$$h_{\text{nvpm}} = 3,92 \text{ m}$$

Cestovni viseći most "Martinska Ves"

622,8

622,7

622,0

621,0

620,0

619,0

618,1

618,0

617,5

617,0

616,7

Selo Martinska Ves Lijeva
Martinska Ves Lijeva Village
Skelska rampa
Ferry slip



Selo Mahovo
Mahovo Village



Krivina Mahovo
Mahovo curve
Ustava
Sluice

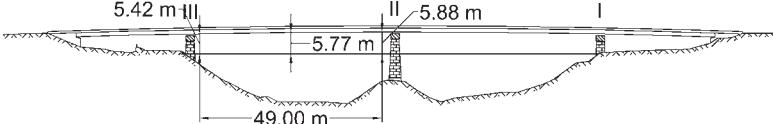


Selo Ljubljanica
Ljubljanica Village



Right Bank Desna obala	km km	Left Bank Lijeva obala
	615,5	Selo Setuš Setuš village
		
Selo Žirčica Žirčica Village	615,0	
		
	614,0	
		
Visokonaponski vod High-voltige duct	613,0	
		Visokonaponski vod High-voltige duct
Selo Tišina Kaptolska Tišina Kaptolska Village	612,4	
		
	612,2	Selo Tišina Erdetska Tišina Erdetska Village Skelo Ferry
		
Visokonaponski vod High-voltige duct	612,0	
		Visokonaponski vod High-voltige duct
Krivina Tišina Tišina curve	611,9	
		
	611,5	
		
Selo Strelečko Strelečko Village	611,0	
		
	610,0	
		
609,0		Selo Palanjek Palanjek willage
		
Visokonaponski vod High-voltige duct	608,8	
		Visokonaponski vod High-voltige duct
		
	608,0	

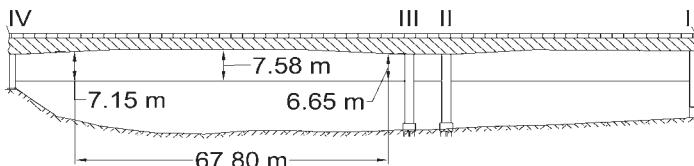
Right Bank Desna obala	km km	Left Bank Ljeva obala
	607,3	T Ustava Palanjek Palanjak sluice Krivina Curve
	607,0	km
Visokonaponski vod High-voltige duct		Visokonaponski vod High-voltige duct
	606,5	
Selo Bok Bok willage	606,0	
	605,8	
	605,4	
	605,0	Selo Hrastelnica Hrastelnica willage
	604,0	
	603,0	Selo Galdovo Galdovo willage
Hrastelnička luka Hrastelnica area	602,4	Hrastelnička luka Hrastelnica area
	602,0	
	601,0	
	600,0	
	599,0	
	598,0	Krivina Štokor Štokor curve

Right Bank Desna obala	km km	Left Bank Lijeva obala
	594,0	
		
$h_0=12,35m$ Galdovo Road Bridge	bpl=49,00m 593,7	$h_{nvp}=5,42m$ Cestovni most Galdovo
		Shipyard Brodogradilište
	593,7	
	593,0	
Kupa Mouth Ušće Kupe	 591,0	
Caprag Area Područje Caprag (rkm 591,0-588,0)	591,0	
		
Sisak Power Plant Termoelektrana Sisak (rkm 589,0-588,0)	589,0	
		Goričica Village Selo Goričica
Gauge Vodomjer (91,34 m)	 588,1	
		
	588,0	

Right Bank
Desna obala

km
km

Left Bank
Ljeva obala



$h_0 = 13,58 \text{ m}$

Crnac Road Bridge

bpl=67,80m

$h_{\text{nvpn}} = 6,65 \text{ m}$

587,8

Cestovni most Crnac

Crnac Oil Port
Naftna luka Crnac



587,0

Crnac Village
Selo Crnac



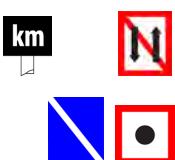
586,6



586,5



586,0



585,0



584,5



584,0

Blinja Mouth
Ušće Blinje



583,5

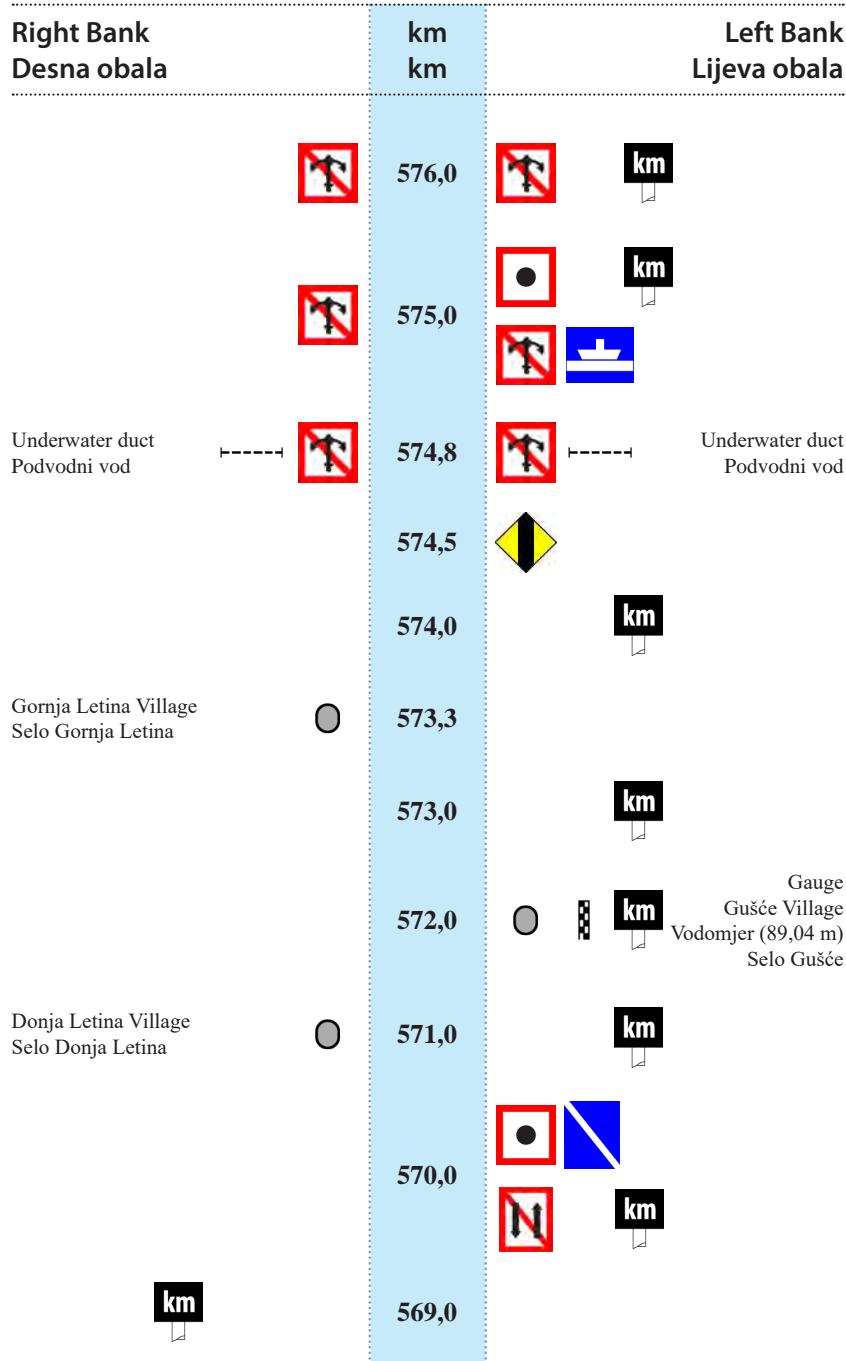
Blinjski Kut Village
Selo Blinjski kut



583,0

Ada- Dubovac Area
Područje-Ada Dubovac

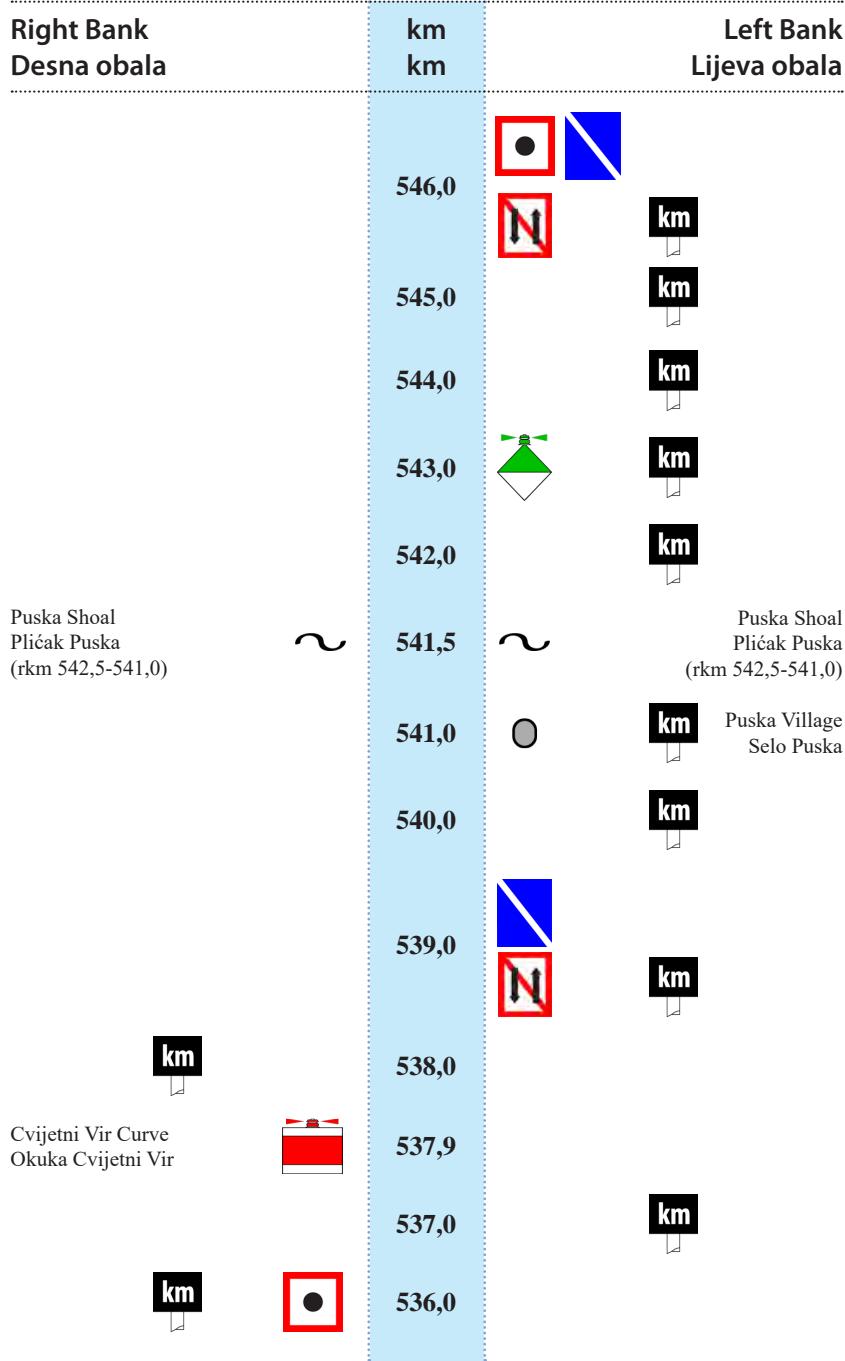
Right Bank Desna obala	km km	Left Bank Lijeva obala
	582,0	Preloščica Winterport-Channel Zimovnik-kanal Preloščica (rkm 584,0-582,0)
Shoal Pličak Blinjski Kut (rkm 582,0-581,0) 	581,0	Shoal Pličak Blinjski Kut (rkm 582,0-581,0)
	580,7	
	580,0	
	579,0	  
	578,2	  
	578,0	Lukavec Village Selo Lukavec
Gradusa Mouth Ušće Graduse 	577,0	
Posavska Gradusa Village Selo Posavska Gradusa 	576,5	
	576,2	
Ferry-underwater line Skelski prijelaz Gradusa Posavska-Lukavec -sajla pod vodom 	576,1	Underwater duct Podvodni vod – vodovod 



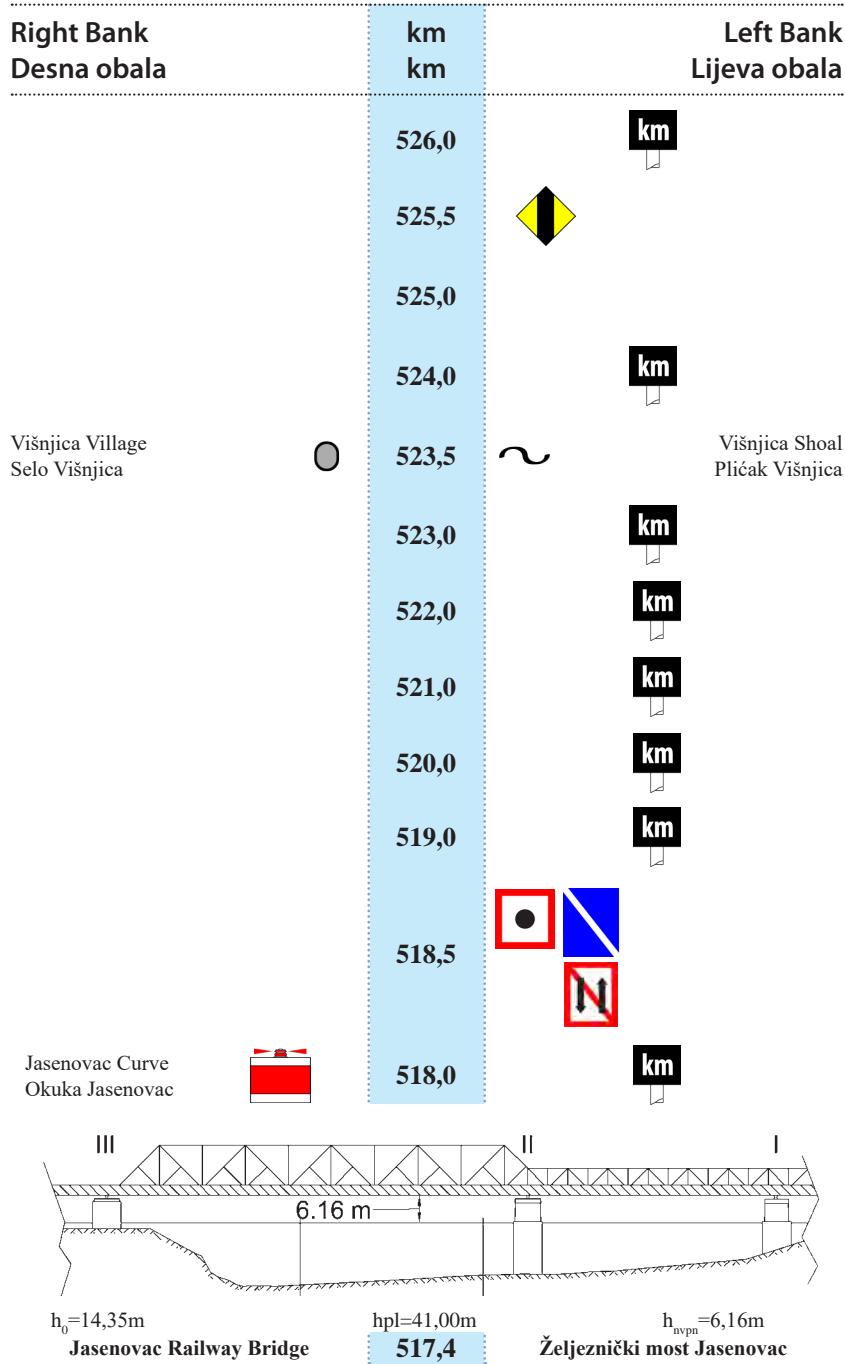
Right Bank Desna obala	km km	Left Bank Lijeva obala
	568,0	
	567,3	  
	567,0	
Ferry-underwater line Skelski prijelaz Selište Sunjsko – Kratečko sajla pod vodom	566,0	
Selište Sunjsko Village Selo Selište Sunjsko	566,0	Kratecko Village Selo Kratečko
	565,1	
	565,0	
	564,5	
 	564,0	
	563,0	
Shoal Bistrač Pličak Bistrač (rkm 563,5-562,0)		Shoal Bistrač Pličak Bistrač (rkm 563,5-562,0)

Right Bank Desna obala		km km	Left Bank Ljeva obala
		562,6	
		562,0	
		561,0	
Bobovac Curve Okuka Bobovac		560,5	Shoal (rkm 560,5-560,0) Pličak Bobovac
		560,0	
Bobovac Village Ferry-underwater line Selo Bobovac Skelski prijelaz podvodna sajla		559,6	
		559,0	
		559,0	
		559,0	
		558,0	
Strmen Shoal Pličak Strmen		557,0	
		557,0	
Strmen Village Selo Strmen		556,0	
		555,4	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	555,0	
Shoal (rkm 554,7-553,7) Pličak Strmen	~	Shoal (rkm 554,7-553,7) Pličak Strmen
	554,7	
	554,0	
		Lonja Village Selo Lonja
	553,0	
	552,0	
		Shoal (rkm 553,0-552,0) Pličak Lonja
	551,0	
	550,7	
		Lonja Mouth-Weir Ušće Lonje-ustava
	550,5	
	550,0	
	549,0	
	548,0	
	547,2	
		Trebež Mouth Ušće Trebeža
	547,0	
		Trebež Curve Okuka Trebež



Right Bank Desna obala	km km	Left Bank Lijeva obala
	535,2	
	535,0	
	534,0	
	533,0	Krapje Village Seat of Lonjsko Polje Nature Park Selo Krapje Uprava Parka Prirode Lonjsko Polje
	532,0	
	531,0	
	530,0	
	529,0	
Dudunski Bok Area Područje Dudunski Bok	528,8	
	528,0	
	527,0	
High-voltage duct Visokonaponski vod	526,5	High-voltage duct Visokonaponski vod
	526,2	



Right Bank Desna obala	km km	Left Bank Lijeva obala
	517,0	
Uštica Village Selo Uštica	516,3	
	516,1	Jasenovac Gauge Vodomjer Jasenovac (86,82 m)
	516,0	
	515,8	 Jasenovac Jasenovac



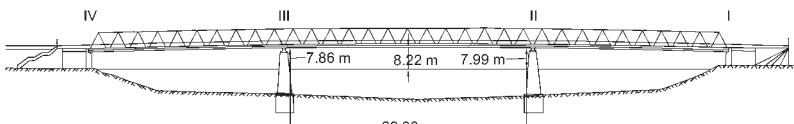
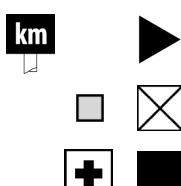
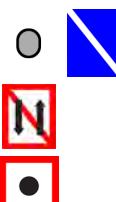
$h_0 = 13,59\text{m}$ Jasenovac Road Bridge	bpl=110m 515,6	$h_{\text{avpn}} = 5,39\text{m}$ Cestovni most Jasenovac
	515,6	
	515,2	
	515,0	
	514,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	513,0	
	512,0	
	511,0	
	510,5	Koštarica Village Selo Koštarica
	510,0	
	509,0	
	508,0	
	507,0	
Pumping Station Virovka Crpna postaja Virovka	506,5	
	506,0	
	505,0	
	504,0	
	503,0	
	502,0	
	501,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	500,9	 Javička Greda Curve Okuka Javička Greda
	500,0	
	499,0	
	498,0	
	497,0	
	496,0	
	495,0	
	494,0	
	493,5	
	493,0	
	492,0	  Mlaka Village Selo Mlaka
	491,5	
	491,0	
	490,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	489,0	
	488,0	
	487,0	
	486,7	Strmac Curve Okuka Strmac
	486,0	
	485,0	
Orahova Village Selo Orahova	484,5	Jablanac Village Selo Jablanac
	484,0	
	483,0	
	482,0	
	481,0	
	480,0	
	479,0	
Mala Gaštica Mouth Ušće Male Gaštica	478,5	Daljinarn rijeke Save i njezinih plovnih pritoka

Right Bank Desna obala	km km	Left Bank Lijeva obala
	478,0	
	477,0	
	476,0	
	475,0	Veliki Strug Mouth Ušće Velikog Struga
	474,0	
	473,0	
	472,0	
	471,0	
Jablanica Mouth Ušće Jablanice	470,7	
	470,0	Mali Strug Mouth Ušće Malog Struga
	469,0	
	468,0	Uskoci Village Selo Uskoci
	467,9	
	467,0	Gauge (85,39 m) Stara Gradiška Vodomjer Stara Gradiška

Right Bank Desna obala	km km	Left Bank Ljeva obala
	466,5	Winter Shelter Zimsko sklonište
		
$h_0 = 17,03\text{m}$ Gradiška Road Bridge	bpl=89,00m 466,2	$h_{\text{vpn}} = 7,86\text{m}$ Cestovni most Gradiška
	466,0	
Gradiška Gradiška Town		
Jurkovica Mouth Ušće Jurkovice	465,0	
	464,0	Shoal (rkm 466,0-464,0) Pličák Donji Varoš
	463,0	
 T	462,7	Lonja-Strug Channel Mouth Ušće kanala Lonja-Strug
	462,0	
	461,0	 Pivare Village Selo Pivare
		 Pivare Curve Okuka Pivare

Right Bank Desna obala	km km	Left Bank Lijeva obala
	460,0	  
	459,0	
	458,0	
	457,5	 Savski Bok Village Selo Savski Bok
	457,2	 Trnava Mouth Ušće Trnave
	457,0	 
	456,0	 
Mačkovac Village Selo Mačkovac	455,5	
	455,0	
	454,1	 Mačkovac Curve-upstream Okuka Mačkovac- uzvodno
	454,0	
Mačkovac Curve Okuka Mačkovac	453,1	
	453,0	
	452,5	 Mačkovac Village Selo Mačkovac

Right Bank Desna obala	km km	Left Bank Ljeva obala
	452,0	
	451,5	~ Mačkovač Shoal Plićak Mačkovač
	451,3	
	451,0	Mačkovač Gauge Mačkovač Weir Vodomjer (83,64 m) Ustava Mačkovač
High-voltage Duct Dolina Pumping Station Visokonaponski vod Crpna postaja Dolina	 450,0	
Dolina Village Selo Dolina	 449,0	 km Dolina Village Selo Dolina
Dolina Shoal Plićak Dolina	~ 448,0	~ Dolina Shoal Plićak Dolina (rkm 450,0-446,0)
	447,0	
Jugovići Village Selo Jugovići	 446,5	
	446,0	
	445,0	 km Lufinja Pumping Station Crpna stanica Lufinja
	444,0	
	443,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	442,5	
	442,3	
	442,0	
Orubica Village Selo Orubica	441,0	
	440,0	
	439,0	
	438,0	
Matura Channel Mouth Ušće kanala Matura	437,9	
	437,0	
	436,0	
	435,0	
	434,2	
	434,0	
	433,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	432,0	
	431,0	
Gaj (Bajinci) Pumping Station Bajinci Village Crpna postaja Gaj (Bajinci) Selo Bajinci	430,3	
Matura Shoal Plićak Matura	430,0	Matura Shoal Plićak Matura
	429,0	
	428,5	
	428,0	
Vrbas mouth Ušće Vrbasa	427,0	Davor Village Selo Davor
Ferry berthing place Rampa	426,8	Ferry berthing place Rampa
Srbac Srbac Town	426,5	
	426,0	
	425,0	
	424,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	423,8	Davor Gauge Pumping station Crpna postaja Davor Vodomjer Davor (82,78 m)
	423,0	
	422,0	
	421,0	
	420,5	
	420,0	
Herceg Dol Curve Okuka Herceg Dol	419,7	
Gornji Kaoci Village Selo Gornji Kaoci	419,0	
	418,0	
	417,0	
	416,0	
	415,0	

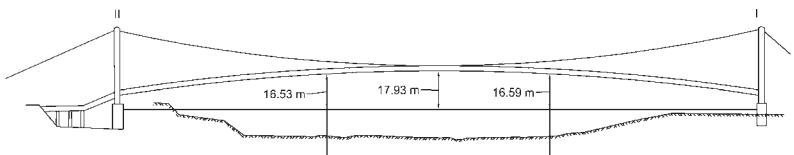
Right Bank Desna obala		km km	Left Bank Ljeva obala
Donji Kaoci Village Vlaknica Mouth Selo Donji Kaoci Ušće Vlaknice	T	414,0	km
Shoal Pličak	~	413,0	km
Motajica Liman Area Područje Motajički Liman (rkm 413,0-412,0)	red rectangle	412,4	
		412,0	km
		411,0	km
	T	410,5	Crnac Mouth-upstream Branch Ušće kanala Crnac 1. krak
		410,0	km
		409,0	km
		408,0	km
		407,8	↑
Brusnik Village Selo Brusnik	circle	407,5	
		407,0	km
			Pričac Village Selo Pričac

Right Bank Desna obala	km km	Left Bank Lijeva obala
	406,8	T Rinovica-Weir Ušće Rinovice-ustava
	406,0	km
	405,0	km
	404,0	km
	403,0	km
Shoal (rkm 402,0-400,7) Plićak Kobaš	402,0	Orljava Mouth Shoal (rkm 402,0-400,7) Ušće Orljave Plićak Kobaš
km	401,0	
Grdelica Mouth Ušće Gradelice	400,5	
Bosanski Kobaš / Kobaš Village Selo Bosanski Kobaš / Kobaš	400,0	Kobaš Village Selo Kobaš
km	399,0	
km	398,0	
Osavica Mouth Ušće potoka Osavica	397,1	
km	397,0	Shoal Plićak

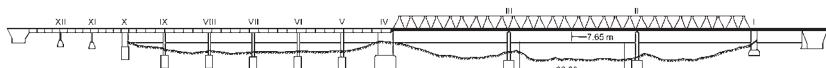
Right Bank Desna obala	km km	Left Bank Ljeva obala
	396,0	
	395,8	 Grlić Pumping Station Crpna postaja Grlić
Shoal Pličak	395,0	
Crna Rijeka Mouth Ušće potoka Crna Rijeka	394,8	
	394,0	
	393,0	
	392,0	
	391,0	
	390,0	
 	389,0	 Dubočac Shoal Pličak Dubočac (rkm 390,0- 388,0)
Dubočac Village Selo Dubočac	388,7	 Dubočac Village Selo Dubočac
	388,0	
	387,2	 Dubočac Pumping Station Crpna stanica Dubočac
	387,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Zbjeg Shoal Plićak Zbjeg (rkm 385,0–382,0)	386,0	
	385,0	
	384,0	
	383,1	
Zbješka Ada Zbješka Ada	383,0	
	382,5	
	382,0	Zbješka Urija Area Područje Zbješka Urija
Ukrina Mouth Ušće Ukraine	381,5	
	381,0	
Shoal (rkm 380,0–379,0) Plićak Migalovci	380,0	
	379,0	Migalovci Recreation Centre Rekreacioni centar Migalovci
	378,6	Migalovci Pumping Station Crpna postaja Migalovci

Right Bank Desna obala	km km	Left Bank Ljeva obala
	378,6	
	378,2	Shoal (rkm 378,2-377,0) Plićak Sijekovac
	378,0	
	377,0	
 Sijekovac Village Selo Sijekovac	376,7	
	376,5	
Underwater Duct Podvodni vod	376,45	Underwater Duct Podvodni vod
	376,4	
	376,0	
 	375,0	
	375,0	Possibility turning Area Winter Shelter Moguće okretište Zimsko sklonište

Right Bank Desna obala	km km	Left Bank Lijeva obala
	 374,9	
		
h ₀ =24,0m Pipeline Bridge	bpl=104,30m 374,9	h _{nvpn} =16,53m Produktovod most
	374,8	
Oil Refinery Rafinerija nafte	 374,7	
Pipeline JANAF	 374,6	 Pipeline JANAF
Reloading Place Pretovarno mjesto rafinerije nafte	 374,5	
	 374,5	
	374,0	
   	373,8 373,6	
	373,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Brod Brod Town		



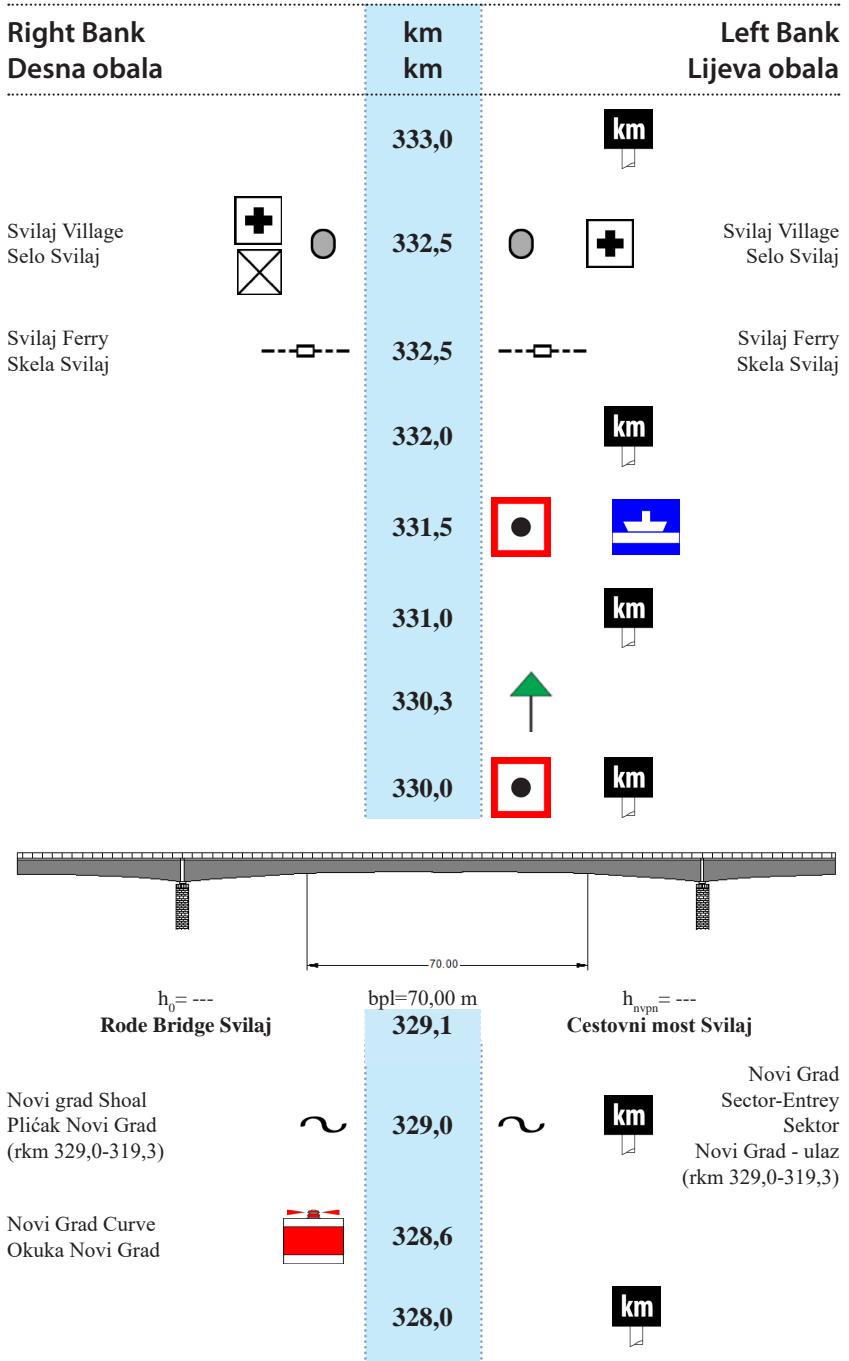
$h_0=15,03\text{m}$ Road Bridge Bosanski Brod/Brod-Slavonski Brod Island Brodska Ada Brodska ada	 	$371,5$
		$371,5$
		$371,3$
		$371,0$
		$371,0$
		$370,1$
		$370,0$

Right Bank Desna obala	km km	Left Bank Lijeva obala
	369,0	
	368,0	
Brodsko Polje Pumping Station Crna postaja Brodsko Polje	367,0	~ Shoal Plićak Poloj (rkm 367,0-366,0)
	366,8	
	366,6	Poloj Bay Kupalište Poloj
	366,3	
	366,0	Winter Shelter Zimsko sklonište
	365,0	
	364,9	Glogovica Mouth Ušće Glogovice
High voltage Duct Visokonaponski vod	364,6	High voltage Duct Visokonaponski vod
	364,0	
	363,6	
	363,4	Port of Slavonski Brod Luka Slavonski Brod
	363,2	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	363,0	  Oil Terminal Naftni terminal
	362,8	  Ruščica village Selo Ruščica
	362,2	 
	362,0	
	361,2	
-----	361,1	-----
Pipeline JANAF		  Pipeline JANAF
	360,0	
	359,0	
Moclek Curve Okuka Moclek		358,1
Liješće Village Selo Liješće		
	358,0	
	357,0	
	356,0	
	355,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	354,0	
	353,0	
Donji Klakar Village Selo Donji Klakar	352,0	
	351,0	
	350,0	
Velika Brusnica Village Quarry Selo Velika Brusnica Kamenolom	349,8	
	349,0	
	348,0	
	347,0	
Mala Brusnica Village Selo Mala Brusnica	346,0	
	345,0	
	344,0	
Ugljara Area Područje Ugljara	343,5	

Right Bank Desna obala	km km	Left Bank Ljeva obala
Shoal Pličak	~	
	343,0	
	342,2	
	342,0	
	341,0	
	340,0	
	339,2	
	339,0	
	338,0	
	337,5	Oprisavci Village Selo Oprisavci
Canal Mouth Ušće kanala		
	337,2	
	337,0	
	336,0	
	335,0	
	334,0	 



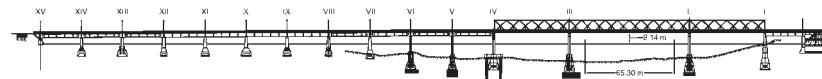
Right Bank Desna obala	km km	Left Bank Ljeva obala
Novi Grad Village Selo Novi Grad	327,0	
	326,0	
	325,0	 Novi Grad Village Selo Novi Grad
	324,0	
Zorice Pumping Station Crpna postaja Zorice	323,1	
	323,0	
	322,0	
Zorice Village Selo Zorice	321,0	
	320,0	 Jaruge Village Selo Jaruge
Novi Grad Sector-Exit Sektor Novi Grad-izlaz	319,3	 Novi Grad Sector-Exit Sektor Novi Grad-izlaz
	319,0	 km
	318,0	
	317,0	
	316,8	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Underwater Duct Podvodni vod	316,7	Underwater Duct Podvodni vod
	316,5	
	316,0	Jabuka Winter Shelter Zimsko sklonište Jabuka
	315,0	
	314,8	 Reloading Site Pristanište Slavonski Šamac
Bosna Mouth Ušće Bosne	314,5	Gauge Vodomjer Slavonski Šamac (rkm 80,70 m)
Šamac Šamac Town	314,0	 Slavonski Šamac Village Selo Slavonski Šamac
Port of Šamac Luka Šamac	313,0	
	312,8	
	312,5	
	312,1	
	312,0	

**Right Bank
Desna obala**

**km
km**

**Left Bank
Ljeva obala**



$h_0 = 14,65\text{m}$
Šamac Road-Railway Bridge

High voltage Duct
Visokonaponski vod



bpl=65,30m
311,8

$h_{\text{mvpn}} = 8,14\text{m}$
Cestovno-željeznički most Šamac



High voltage Duct
Visokonaponski vod

km
Savulja Shoal
Plićak Savulja

311,2

311,0

km
Bukovi Shoal
Plićak Bukovi

310,0

km
Grebnice Village
Vućjak Curve
Selo Grebnice
Okuka Vučjak

309,3

309,0

km
Winter Shelter
Zimsko sklonište

km
Klenić Shoal
Plićak Klenić

308,6

km
Bukovi Shoal
Plićak Bukovi

308,0

km
Grebnice Village
Vućjak Curve
Selo Grebnice
Okuka Vučjak

307,0

km
Klenić Shoal
Plićak Klenić

306,7

km
Winter Shelter
Zimsko sklonište

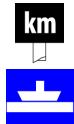
306,0

km
Klenić Shoal
Plićak Klenić

305,0

km
Grebnice Village
Vućjak Curve
Selo Grebnice
Okuka Vučjak

304,0

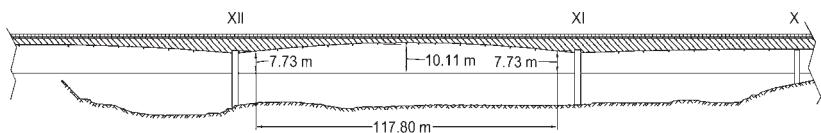
Right Bank Desna obala	km km	Left Bank Lijeva obala
	303,0	~
	302,0	
	301,0	
Ferry berthing Place Skelska rampa	300,6	Ferry berthing Place Skelska rampa
	300,5	
	300,0	  Dubočica area Područje Dubočica
Underwater Duct Podvodni vod	299,9	Underwater Duct Podvodni vod
	299,8	
	299,5	 
	299,0	 
	298,0	
	297,0	
	296,0	 
 Domaljevac Village Selo Domaljevac	295,0	 

Right Bank Desna obala	km	km	Left Bank Ljeva obala
		294,0	
		293,7	
		293,0	
		292,0	
		291,2	Ajdukovo Area Područje Ajdukovo
		291,0	
		290,0	
		289,0	
		288,0	
		287,0	
		286,0	
		285,0	
		284,0	
		283,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	282,0	
	281,0	
	280,0	
	279,9	
Pumping Station Crpna postaja		
  	279,6	
	279,0	
Ferry (seasonal operation) Skela (sezonska)	278,5	Ferry (seasonal operation) Područje Burumi Skela (sezonska)
	278,0	
	277,1	 
	277,0	
Tolisa Village Selo Tolisa	276,8	
  		
Tolisa Shoal Pličak Tolisa	276,0	
	275,8	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	275,0	
	274,0	
	273,0	Repovac Shoal Plićak Repovac
	272,5	
	272,0	
	271,6	
	271,0	
	270,0	
	269,5	Županija Reloading Site Pristanište Županija
	269,0	
	268,7	
	268,0	
	267,6	
	267,0	Županija Gauge Županija Vodomjer Županija (76,28 m)

Right Bank Desna obala	km km	Left Bank Lijeva obala
	266,0	km
	265,7	Županja Ciglana Area Područje Županja Ciglana
	265,5	km Poloji Bay Plaža Poloji
	265,0	km
	264,0	km
	263,0	km
	262,7	
Underwater Duct Podvodni vod	262,4	Underwater Duct Podvodni vod
	262,0	km
Reloading Site Pristanište Orašje	261,8	Winter Shelter Zimsko sklonište



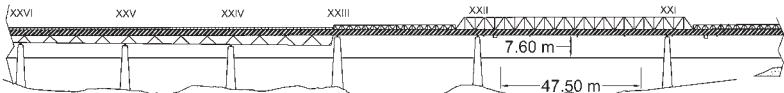
Road Bridge Orašje-Županja

bpl=117,80m
261,6

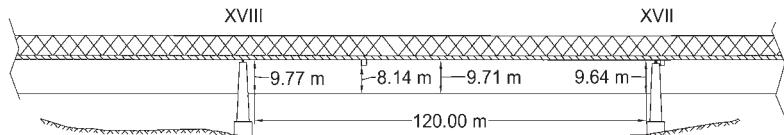
$h_{\text{hypn}} = 7,73\text{m}$
Cestovni most Županja-Orašje

Right Bank Desna obala	km km	Left Bank Ljeva obala	
	261,0		
	260,0		
High voltage Duct Visokonaponski vod		259,0	High voltage Duct Visokonaponski vod
		258,0	
	257,5		
	257,0		
Kopanice Village Selo Kopanice		256,0	
		255,0	
	254,9		
	254,0		
	253,0		
	252,0		
	251,0		
	250,0		
	249,9	 Topola Area Područje Topola	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	249,0	
	248,0	
	247,0	
Vidovice Village Selo Vidovice		246,0
	245,0	
Vučilovac Village Selo Vučilovac		244,0
	243,7	
	243,0	
	242,0	
Pumping Station Krepšić Village Selo Krepšić Crpna stanica		Rajevo Village- upstream Rajevo Selo -uzvodno
	241,0	
	240,0	
	239,0	
	238,0	 Rajevo Selo Curve Okuka Rajevo Selo
	237,0	

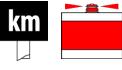
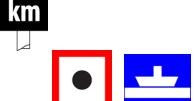
Right Bank Desna obala	km km	Left Bank Ljeva obala
	236,0	Rajevo Village-downstream Rajevo Selo-nizvodno
	235,0	
Tinja Mouth Ušće Tinje	234,3	
	234,0	
Plazulja Village Selo Plazulja	233,0	
	232,0	
	231,0	
	230,0	
Brka Mouth Ušće Brke	229,0	
Gauge Vodomjer Brčko (76,62m)	228,6	
 <p>XXVI XXV XXIV XXIII XXII XXI</p> <p>$h_0 = 14,12\text{m}$ $\text{bpl}=47,50\text{m}$ $h_{\text{nvpn}} = 7,60\text{m}$</p> <p>Road Bridge Brčko-Gunja Cestovni most Gunja-Brčko</p>		
Brčko Brčko Town	228,6	
	228,4	
		   

Right Bank Desna obala	km km	Left Bank Lijeva obala
Port of Brčko Border Crossing Luka Brčko Granični prijelaz	228,4	
Port of Brčko Luka Brčko	228,2	
	228,1	
	228,0	km
	227,5	
	227,0	km



$h_o = 16,06m$ Railway Bridge Brčko-Gunja	bpl=120,00m 226,9	$h_{nvpn} = 8,14m$ Željeznički most Gunja-Brčko
	226,4	
	226,0	km
	225,0	km

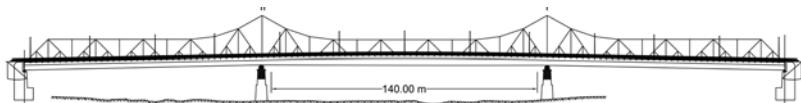
Right Bank Desna obala	km km	Left Bank Ljeva obala
	224,9	
	224,0	km
	223,0	km Gunja Shoal Konjuša Pumping Station Plićak Gunja (rkm 223,0–221,0) Crpna stanica Konjuša
	222,0	km
	221,0	km
	220,8	
Trnjani Shoal Plićak Trnjani	220,0	km
	219,7	
	219,0	km
	218,0	km
	217,0	km
	216,7	
Brezovo Polje Village Selo Brezovo Polje	216,0	Račinovci Village Selo Račinovci

Right Bank Desna obala	km km	Left Bank Lijeva obala
	215,0	
	214,0	
	213,8	  Teča Pumping Station Crpna stanica Teča
	213,0	
Shoal Pličak (rkm 212,0–211,0)	212,0	
	211,0	
Channel Mouth Nakić-Kula Ušće kanala Lukavac	210,8	 Channel Mouth Border CRO-SRB Ušće kanala Račinovac Devojačka kula granica HR-SRB
	210,0	
	209,0	
	208,0	
Crnjelovo Pumping Station Crpna postaja Crnjelovo	207,2	
	207,0	
	206,0	

Right Bank Desna obala		km km	Left Bank Ljeva obala
Crnjelovo Village Selo Crnjelovo (3km)	   	205,0	Jamena Village Selo Jamena (2 km)
Ferry Border Crossing Skelo Cestovni granični prijelaz Subotiće- Jamena	 	204,8	Jamena Gauge (72,44) Vodomjer Jamena
		204,8	Ferry Border Crossing Skelo Cestovni granični prijelaz Jamena- Subotiće
		204,0	   
		203,0	
		202,0	
Pumping Station Crpna stanica	 	201,8	
		201,0	
		200,3	 
		200,0	
	 	199,0	
		198,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	197,0	
Pumping Station Crpna stanica		196,4
	196,0	
	195,0	
	194,0	
	193,0	
	192,0	
	191,0	
Visoč Area (rkm 191-190) Područje Visoč		190,7
	190,0	
	189,0	
	188,0	Lisnik Area Sektor Lisnik (rkm 188,0-187,0)
	187,0	
	186,0	
	185,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	184,0	Bela Crkva Area Sektor Bela Crkva (rkm 184,0-182,5)
High voltage Duct Visokonaponski vod	183,9	Sremska Rača Village Sremska Rača (1 km)
	183,8	High voltage Duct Visokonaponski vod



Rača Road-Railway Bridge	$h_0 = 17.23\text{m}$	183,3	Cestovo-željeznički most Rača
Road Cross Border BiH-SRB Cestovni granični prijelaz BiH-SRB	183,3	Road Cross Border-SRB BiH Cestovni granični prijelaz SRB-BiH	
	183,0	km	
	182,0	km	
	181,0	km	
	180,0		
	179,7		
	179,5		Rača Sector-Entry Sektor Rača-ulaz
	179,2	T	Signal Spot (out of Function) Signalna stanica (izvan funkcije)

Right Bank Desna obala	km km	Left Bank Lijeva obala
	179,0	
	178,7	
Bosanska Rača/Rača Village Selo Bosanska Rača/Rača (1,5 km) 	178,5	
Drina Mouth Border BiH-SRB Ušće Drine Granica (BiH-SRB) 	178,0	
	177,0	
	176,9	
	176,0	
	175,2	
	175,0	
Sunken Object Potopljeni objekat 	174,8	
	174,0	
	173,0	
	172,6	T Poloj Signal Spot (out of Function) Rača Sector Exit Signalna postaja Poloj (izvan funkcije) Sektor Rača-izlaz

Right Bank Desna obala	km km	Left Bank Ljeva obala
	172,4	
 		
	172,0	
	171,5	
	171,0	
	170,0	Stara Sava Area Područje Stara Sava (rkm 169,0 170,0)
	169,0	
	168,0	
Crna Bara Village Selo Crna Bara (4 km)	167,7	
  		
	167,0	
	166,0	
	165,4	Banov Brod Area Područje Banov Brod
		
	165,0	
	164,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	163,0	 Bosut Village Selo Bosut (1 km)
	162,5	 Bosut Mouth Usće rijeke Bosut
	162,3	 Pumping Station Crpna postaja
	162,0	
	161,4	
	161,0	
Sunken Object Potopljeni objekat	160,1	
	160,0	
	159,7	 Klještevica Village Selo Klještevica (1 km)
	159,0	
	158,0	
	157,0	
Ravnje Village Selo Ravnje (1 km)	156,0	
	155,6	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	155,0	
	154,4	Popov Salaš Area Područje Popov Salaš
	154,0	
	153,4	Channel Mouth Ušće kanala
	153,0	 
	152,2	  Martinci Village Selo Martinci (4 km)
	152,0	
	151,0	
	150,0	
	149,0	
	148,0	
Special Nature Reserve „Zasavica“ Prirodnji rezervat „Zasavica“ (rkm 145,0-150,0)	147,0	 Kurjakovac Area Područje Kurjakovac
Zasavica Village Selo Zasavica (0,8 km)	146,0	
	145,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	144,4	T General Channel Mouth Ušće Generalnog kanala
	144,0	km
Shipyard Brodogradilište	143,6	Laćarak Village Selo Laćarak (2,5 km)
	143,0	km
High voltage Duct Visokonaponski vod	142,2	High voltage Duct Visokonaponski vod
km	142,0	
km	141,9	Reloading Place Pretovarno mjesto
km	141,0	
km	140,0	
	139,9	Water Duct Vodovod
Underwater Duct Podvodni TT vod	139,8	Underwater Duct Podvodni TT vod
Underwater Duct Podvodni električni kabal	139,7	Underwater Duct Podvodni električni kabal
Pedestrian Bridge Sremska Mitrovica	139,3	Pješački most Sremska Mitrovica

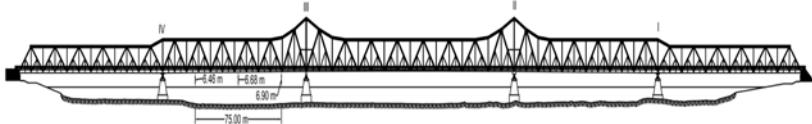
Indicator of river kilometres for The Sava River and its navigable Tributaries

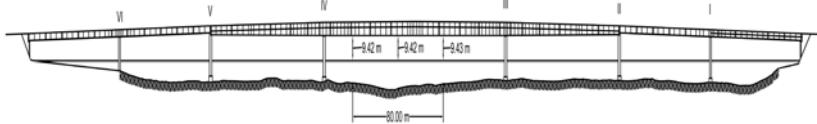
Right Bank Desna obala	km km	Left Bank Ljeva obala
	139,24	Gauge (72,22 m) Vodomjer Sremska Mitrovica
Underwater Duct Podvodni kabal	139,2	Underwater Duct Podvodni kabal
Mačvanska Mitrovica Town Mačvanska Mitrovica	139,0	Sremska Mitrovica Town Sremska Mitrovica Frish Water Pitka voda
	139,0	
	138,9	Border Crossing Granični prijelaz Border Police Granična policija
Underwater Optical Duct Podvodni optički kabal	138,85	Underwater Optical Duct Podvodni optički kabal
	138,8	
Bogaz Channel Mouth Ušće kanala Bogaz	138,7	
Noćajski Salaš Village Selo Noćajski salaš (1,7 km)	138,6	Underwater Duct Podvodni kabal
	138,5	
	138,4	
	138,1	
	138,0	Bay Plaža

Right Bank Desna obala	km km	Left Bank Lijeva obala
	137,0	
$h_0 = 15,44\text{m}$	bpl=150,00m	$h_{\text{vpn}} = 9,30\text{m}$
Sremska Mitrovica Road Bridge	136,6	Cestovni most Sremska Mitrovica
	136,0	
	135,8	
	135,7	Port of Leget Fresh Water Luka Leget Pitka voda
	135,0	Winter Shelter Zimsko sklonište (rkm 138,5- 138,1)
	134,8	
	134,6	Reloading Place Pretovorno mjesto/kosi kej-fabrika celuloze
	134,4	
	134,0	
	133,0	
	132,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	131,1	Memorial Site „Leget“ Spomen obilježje „Leget“
	131,0	
Channel Mouth Ušće kanala	130,4	
Čevrntija Area Područje Čevrntija	130,0	
	129,0	
	128,0	
Potopljeni brod "Slovenac" Sunken Object	127,5	
	127,0	
Bitva Channel Mouth Ušće kanala Bitva	126,8	
	126,0	
Vrbovača Area Vrbovača (šire područje)	125,5	
	125,0	
	124,0	
	123,7	Jarak Village Selo Jarak (0,8 km) Ferry Berthing Place Rampa
	123,3	 Jarčina Channel Mouth Pumping Station Ušće kanala Jarčina Crpna postaja

Right Bank Desna obala	km km	Left Bank Lijeva obala
	123,0	
	122,0	
	121,0	  
 	120,0	
	119,0	
	118,0	
	117,0	
	116,1	 
	116,0	
	115,0	Sinajska Bara Area Područje Sinajske Bare
	115,0	
	114,0	
	113,0	
	112,5	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	km	112,0
	km	111,0
Drenovac Channel Sector Sektor Drenovački kanal (rkm 111,7-107,0)	km T	110,0
Ex Military Ferry berthing Pleace Nekadašnja vojna rampa		109,8
	km	109,0
Koča Channel Kočin kanal	T	108,8
	km	108,0
		107,7
	km	107,0
		
$h_0=11,26\text{m}$ Šabac Railway Bridge	bpl=75,00m	$h_{\text{avpn}}=6,46\text{m}$ Željeznički most Šabac
Gauge(72,61 m) Vodomjer Šabac	107,0	
Silo Reloading Place Pretovarno mjesto-silos	106,28	
	106,2	
	106,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
Šabac Old Town Šabački „Stari grad“ srednjevijekovno utvrđenje	105,5	
Šabac Town Šabac	105,0	
Oil Terminal Pristan za pretovar tečnih tereta	104,6	
		
h ₀ =14,13m Šabac Road Bridge 	104,5 104,0	bpl=80,00m h _{nvp} =9,42m Cestovni most Šabac
Reloading Place Fabričko pristanište- vertikalni kej	103,7	
	103,0	
	102,8	Upstream Part of Mišarska Ada Mišarska Ada, vrh
Dumača Channel Dumača kanal	102,6	
Jelenča Village Selo Jelenča (1,7 km)	102,0	Mišarska Ada Mišarska Ada
Port of Šabac Luka Šabac	101,0	

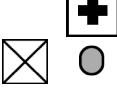
Right Bank Desna obala	km km	Left Bank Ljeva obala
Mišar Village Selo Mišar (2 km)	100,8	Downstream Part of Mišarska Ada Mišarska Ada-kraj
	100,5	
	100,0	
High voltage Duct Visokonaponski vod	99,8	
	99,0	
	98,9	
Pipeline Gasovod	98,7	Pipeline Gasovod
	98,5	
Orašac Village Selo Orašac (1,8 km)	98,0	
	97,2	
	97,0	
	96,0	
Mrđanovac Sector Sektor Mrđenovac (rkm 98,0-95,0)	95,0	Mrđanovac Sector Sektor Mrđenovac (rkm 98,0-95,0)
	94,4	Vitojevačka Ada Vitojevačka Ada (rkm 93,6-95,3)

Right Bank Desna obala	km km	Left Bank Lijeva obala
	94,0	
	93,0	
	92,0	
	91,0	
Dragojevac Village Selo Dragojevac (1,8 km)	90,5	
Široke Njive Sector Sektor Široke Njive (rk 92,0-89,0)	90,0	Široke Njive Sector Sektor Široke njive (rk 92,0-89,0)
Entrey of Kamičak Sector Sektor Kamičak-ulaz (rk 89,0 – 82,3)	89,0	Entrey of Kamičak Sector Sektor Kamičak-ulaz
	89,0	
	88,0	
	87,0	
	86,8	Upstream Part of Podgorička Ada Podgorička Ada,vrh gradevina
	86,0	
	85,0	
Winter Shelter Zimsko sklonište (rk 82,3-85,5)	84,5	Podgorička Ada Podgorička Ada

Right Bank Desna obala	km km	Left Bank Ljeva obala
	84,0	
	83,2	Mala Ada Mala Ada
	83,0	
Exit of Kamičak Sector Sektor Kamičak-izlaz (rkm 82,3 – 89,0) 	82,3	Downstream Part of Podgorička Ada Exit of Kamičak Sect. Sektor Kamičak-izlaz Podgorička Ada-kraj
	82,0	
	81,0	
Plandište Area (rkm 82,0-81,0) Područje Plandište Orlača Area (rkm 82,0-71,0) Područje Orlača	80,0	Vrbica-Plandište Area Područje Vrbica- Plandište (rkm 82,0-81,0) 
	79,0	
	78,3	Krstovi Area Područje Krstovi 
	78,0	
	77,0	
	76,0	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	75,0	
	74,6	Miloševa Ada Miloševa ada
	74,2	
	74,0	
	73,0	
	72,0	
Provo Village Selo Provo (2 km)		71,0
Duboka Area Područje Duboka (rkm 70,0-69,0)		70,0
	69,5	Kupinski Kut Kupinski kut
	69,0	
Novo Selo Village Novo Selo		68,4
	68,0	
Beljin Gauge (69,99m) Vodomjer Beljin		67,53
Silo Silos		67,1

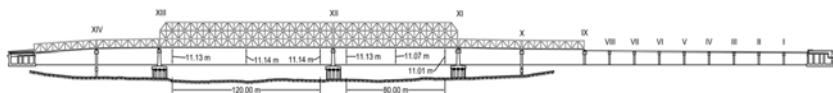
Right Bank Desna obala		km km	Left Bank Ljeva obala
Mesarci Village Debrc Reloading Place Selo Mesarc Utvorno mjesto Debrc		67,0	
Beljin Village Selo Beljin (3,7 km)		66,0	
		65,0	
		64,0	
Vukodraž Village Selo Vukodraž Ušće Village Selo Ušće (2 km)		63,6	
		63,0	
Channel Mouth Kanal-Vukodraž		62,0	
Power Plant Oil Terminal Pretovarno mjesto T/E (tekući tereti)		61,5	
Obrenovac „B“ Power Plant (hot Water Outlet) Termoelektrana Obrenovac “B“ (ispust vrele vode)		61,4	
		61,0	
		60,8	Upstream Part of Mozerova Ada Mozerova Ada-vrh
		60,0	Mozerova Ada Mozerova Ada

Right Bank Desna obala	km km	Left Bank Lijeva obala
	59,1	Downstream Part of Mozerova Ada Mozerova Ada-kraj
	59,0	
Upstream Part of Skelska Ada Skelska Ada vrh	 58,5	
	58,0	
Skelska Ada Skelska Ada Winter Shelter Zimsko sklonište (rkm 55,9-57,1)	 57,3	
	57,0	
Ferry Skelski prijelaz	 56,7	Obedska Bara Channel Mouth Kanal iz Obedske Bare
Skela Village Selo Skela	 56,2	
	56,0	
Downstream of Skelska Ada Skelska Ada-kraj	 55,9	
	55,5	
	55,0	Kupinovo Village Selo Kupinovo (2 km)
	54,5	
	54,0	Water Supply Facility Reni bunar
		

Right Bank Desna obala	km	km	Left Bank Ljeva obala
	53,5		Water Supply Facility Reni bunar
	53,2		Water Supply Facility Reni bunar
km 	53,0		
	52,95		Water Supply Facility Reni bunar
	52,7		Water Supply Facility Reni bunar
km 	52,0		
	51,85		Water Supply Facility Reni bunar
High voltage Duct Visokonaponski vod		51,5	High voltage Duct Visokonaponski vod
			Water Supply Facility Reni bunar
Pumping Station Crpna postaja Krtinski kanal		51,4	
km 	51,0		
	50,95		Water Supply Facility Reni bunar
High voltage Duct Visokonaponski vod		50,9	High voltage Duct Visokonaponski vod
High voltage Duct Visokonaponski vod		50,8	High voltage Duct Visokonaponski vod
	50,45		Water Supply Facility Reni bunar

Right Bank Desna obala	km km	Left Bank Ljeva obala
	50,25	 Water Supply Facility Reni bunar
	50,0	 Water Supply Facility Reni bunar
	49,6	 Water Supply Facility Reni bunar
	49,1	 Water Supply Facility Reni bunar
	49,0	Water Tower Vodotoranj
	48,7	 Upstream Part of Progarska Ada Progarska Ada,vrh,
	48,35	 Water Supply Facility Reni bunar
	48,3	
	48,0	
	47,95	 Water Supply Facility Reni bunar
	47,8	 Progarska Ada Progarska Ada
	47,6	 Water Supply Facility Reni bunar
	47,2	 Water Supply Facility Reni bunar
	47,0	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	46,7	Progar Village Downstream Part of Progarska Ada Selo Progar Progarska Ada-kraj
	46,0	km
	45,0	km
	44,0	Pumping Stations Crpna stanica
„Obrenovac A“ Power Plant Termoelektrana „Obrenovac A“	43,1	km
	43,0	km



$h_0 = 17,83\text{m}$	bpl=1 x 80,00m/1 x 120,00m	$h_{\text{vyp}} = 11,01\text{m}$
Road-Pipeline Bridge Obrenovac	42,5	Cestovno-toplodalekovodni most Obrenovac
High voltage Duct Visokonaponski vod	42,3	High voltage Duct Visokonaponski vod
High voltage Duct Visokonaponski vod	42,2	High voltage Duct Visokonaponski vod
Obrenovac High voltage Duct Obrenovac Visokonaponski vod	42,0	High voltage Duct Visokonaponski vod
Silo Reloading Place Pretovorno mjesto-silos	42,0	

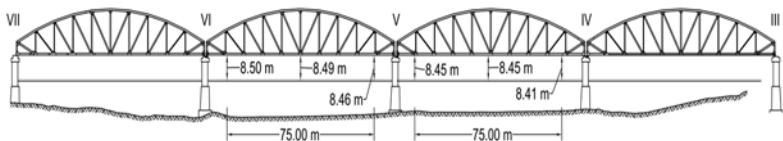
Right Bank Desna obala	km km	Left Bank Lijeva obala
High voltage Duct Visokonaponski vod	41,9	High voltage Duct Visokonaponski vod
		
	41,0	
	40,0	
Zabrežje Village Selo Zabrežje (0,8 km)	39,3	
		
	39,0	
Reloading Place (out of Function) Pretovorno mjesto–kosi kej (izvan funkcije)	38,8	
		
	38,0	
	37,7	 Water Supply Facility Reni bunar
	37,0	
	36,9	 Water Supply Facility Reni bunar
	36,6	 Water Supply Facility Reni bunar
	36,0	
	35,5	 Water Supply Facility Reni bunar
	35,3	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	35,0	  
	34,7	
	34,5	
	34,1	
	34,0	
	33,7	
	33,0	
	32,9	
Čair Area Područje Čair	32,0	
	31,0	
	30,8	
Perilo Area Područje Perilo	30,0	
	29,0	
	28,2	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	28,0	
Kolubara Mouth Ušće Kolubare		27,6
Upstream Part of Kolubarska Ada Kolubarska Ada-vrh		27,0
Barič Village Selo Barič		27,0
Oil Terminal Pristan za tečne terete		26,3
Kolubarska Ada Kolubarska Ada		26,0
		Kolubarska Ada Kolubarska Ada
	25,0	
Downstream Part of Kolubarska Ada Kolubarska Ada, kraj		25,0
Mala Moštanica Mala Moštanica (2,5 km)		24,3
		Downstream Part of Kolubarska Ada Kolubarska Ada, kraj
	24,0	
	23,0	
Underwater Duct Podvodni kabal		22,6
Umka Village Selo Umka (0,8 km)		22,0
		Underwater Duct Podvodni kabal

Right Bank Desna obala	km km	Left Bank Ljeva obala
Factory Fabričko postrojenje	21,0	
	20,0	
	19,6	
	19,3	
	19,0	
	18,7	 Water Supply Facility Reni bunar
	18,3	 Water Supply Facility Reni bunar
	18,0	
 	18,0	
	17,9	 Water Supply Facility Reni bunar
	17,6	
	17,5	 Water Supply Facility Reni bunar
Oil Terminal Istovarno mjesto naftnih derivata	17,2	 Water Supply Facility Cjевasti bunar
	17,0	 Water Supply Facility Cjевasti bunar
	16,85	 Water Supply Facility Cjевasti bunar

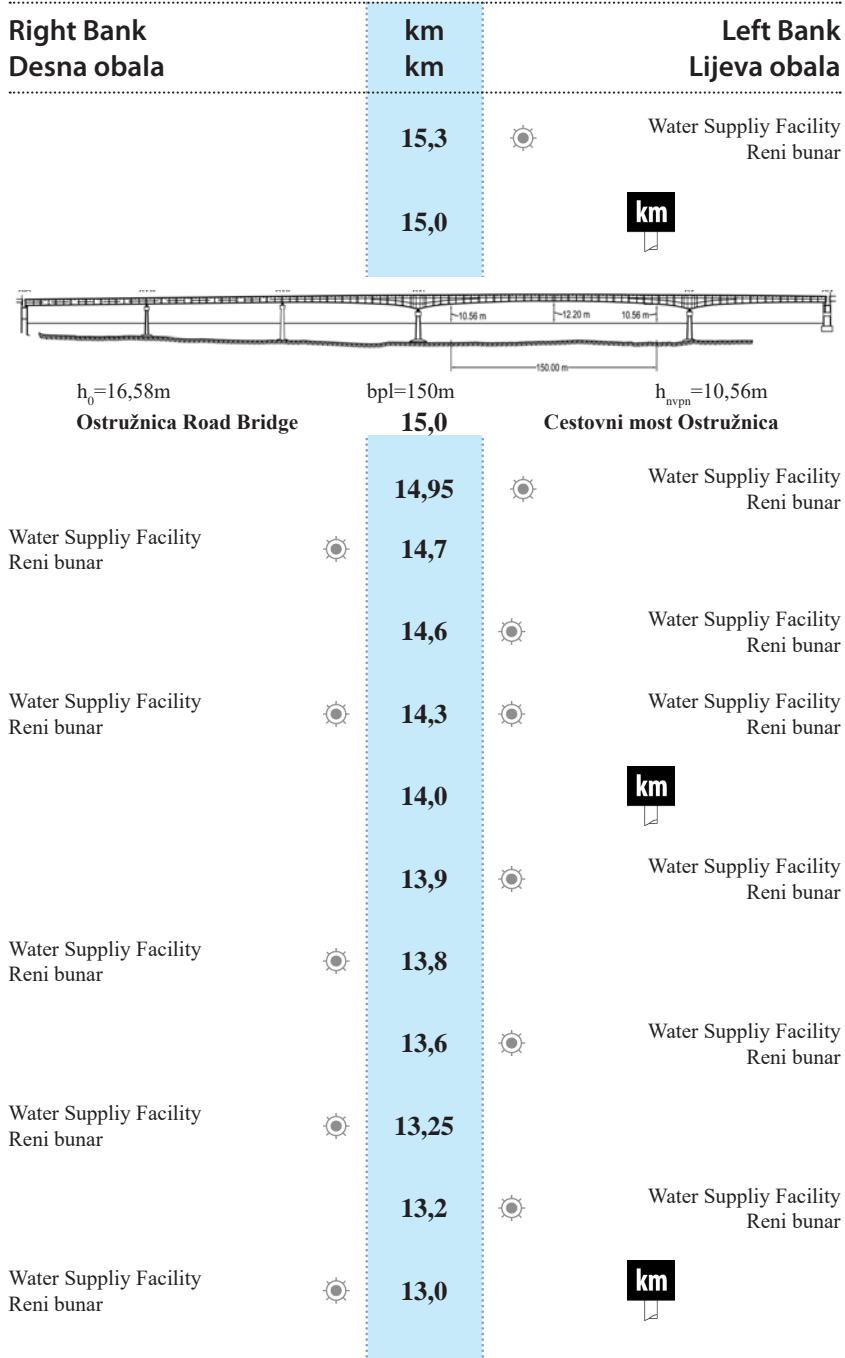
Right Bank Desna obala	km km	Left Bank Lijeva obala
Ostružnica Village Selo Ostružnica	16,65	Water Supply Facility Cjevasti bunar
	16,6	
	16,5	Water Supply Facility Cjevasti bunar
	16,3	Water Supply Facility Cjevasti bunar
	16,2	
	16,1	Water Supply Facility Cjevasti bunar
	16,0	km
	15,9	Water Supply Facility Cjevasti bunar
	15,7	Water Supply Facility Cjevasti bunar
	15,6	Water Supply Facility Cjevasti bunar



$h_0 = 14,44 \text{m}$
Ostružnica Railway Bridge

bpl=2 x 75,00m
15,4

$h_{\text{vpn}} = 8,41 \text{m}$
Željeznički most Ostružnica



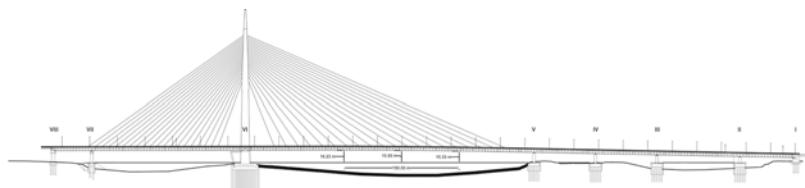
Right Bank Desna obala	km km	Left Bank Lijeva obala
	12,85	Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	 12,8	
Directorate for Inland Waterways Baza Direkcije za vodne puteve	 12,55	
Water Supply Facility Reni bunar	 12,5	
	12,4	Water Supply Facility Reni bunar
Shipyard Brodogradilište	 12,3	
Water Supply Facility Reni bunar	 12,1	
	12,05	Water Supply Facility Reni bunar
	12,0	 km
Water Supply Facility Reni bunar	 11,95	
Water Supply Facility Reni bunar	 11,7	Water Supply Facility Reni bunar
	11,35	Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	 11,3	
Makiš Pumping Station Crpna postaja „Makiš“	 11,0	Sector “Sava confluence”  Sektor “Ušće Save” (rkm 11,0 – rkm 0)
	10,75	Water Supply Facility Reni bunar

Right Bank Desna obala	km km	Left Bank Ljeva obala
Water Supply Facility Reni bunar	10,5	
	10,45	Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	10,2	
	10,1	Water Supply Facility Reni bunar
Upstream Part of Velika Ada Ciganlija Velika Ada Ciganlija-vrh	10,0	km
Water Supply Facility Reni bunar	9,7	
	9,5	Water Supply Facility Reni bunar
Water Supply Facility Reni bunar	9,3	
	9,1	Water Supply Facility Cjevasti bunar
High voltage Duct Visokonaponski vod	9,0	High voltage Duct Visokonaponski vod
	9,0	Water Supply Facility Cjevasti bunar
	8,9	Water Supply Facility Cjevasti bunar
	8,8	Water Supply Facility Cjevasti bunar
Water Supply Facility Reni bunar	8,65	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	8,55	Water Supply Facility Cjevasti bunar
	8,4	Water Supply Facility Cjevasti bunar
	8,25	Water Supply Facility Cjevasti bunar
	8,0	Water Supply Facility Cjevasti bunar
	7,85	Water Supply Facility Cjevasti bunar
Water Supply Facility Reni bunar	7,6	Water Supply Facility Reni bunar
Upstream Part of Ada Međica Ada Međica-vrh	7,4	
	7,4	
	7,15	Water Supply Facility Reni bunar
	7,0	
Ada Međica Ada Međica	6,8	
	6,7	Water Supply Facility Reni bunar
Velika Ada Ciganlija Velika Ada Ciganlija	6,5	
Water Supply Facility Reni bunar	6,4	

Right Bank Desna obala		km km	Left Bank Ljeva obala
Downstream Part of Ada Medica Bežanija Area Ada Medica-kraj Područje Bežanija	→	6,3	
		6,25	Water Supply Facility Reni bunar
		6,0	
Underwater Duct Podvodni kabal	---	5,9	Underwater Duct Podvodni kabal
		5,8	
Underwater Duct Podvodni električni vod	---	5,3	Underwater Duct Podvodni električni vod
		5,25	Water Supply Facility Reni bunar
		5,0	
Upstream Part of effluent Čukarički rukavac-gornji kraj	→	4,9	Liquid cargo reloading place Pristan za tekuće terete Beogradske toplane
		4,55	
			Water Supply Facility Reni bunar

Right Bank Desna obala	km km	Left Bank Lijeva obala
Oil Terminal (in effluent) Naftni terminal u Čukaričkom rukavcu	4,2	Water Supply Facility Reni bunar
	4,1	Shipyard (in effluent) Brodogradilište i radionica u Bežanijskom rukavcu
Topčiderska Reka Mouth (in effluent) Ušće Topčiderske Reke u Čukaričkom rukavcu	4,0	
	4,0	Upstream Part of Mala Ada Ciganlija Mala Ada Ciganlija-vrh
	3,9	



$h_0=21,02m$	$bpl=150,00m$	$h_{\text{avpn}}=15,33m$
Beograd Road Bridge-Ada Ciganlija	3,9	Cestovni most Beograd-Ada Ciganlija
Downstream Part of Velika Ada Ciganlija Downstream Part of Čukarica effluent Velika Ada Ciganlija- kraj Čukarički rukavac-donji kraj	3,8	Mala Ada Ciganlija Mala Ada Ciganlija
	3,7	Water Supply Facility Reni bunar
	3,6	
	3,2	Water Supply Facility Reni bunar

Right Bank
Desna obala

km
km

Left Bank
Ljeva obala

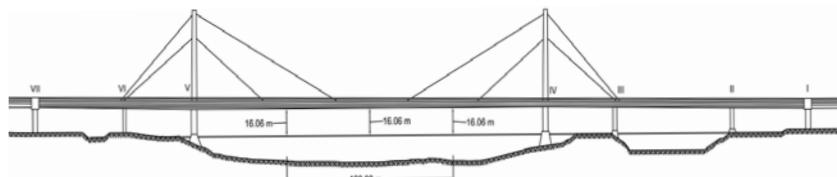
3,1



3,0



Downstream Part of
Mala Ada Ciganlija
Entry of Effluent
Mala Ada Ciganlija/
Kraj – ulaz u
Bežanijski rukavac



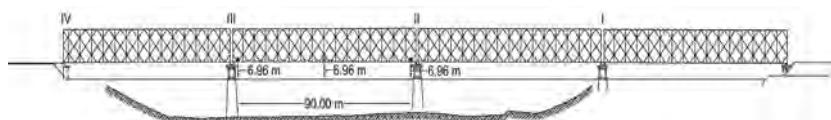
Beograd New Railway Bridge

bpl=120,00m

3,0

$h_{nvpn} = 16,06m$

Novi željeznički most Beograd



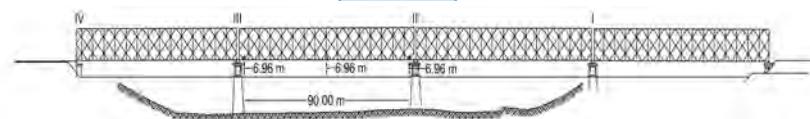
Beograd Old Railway Bridge

bpl=90,00m

2,73

$h_{nvpn} = 6,96m$

Stari željeznički most Beograd



Gazela Road Bridge

bpl=200

2,52

$h_{nvpn} = 10,87$

Cestovni most-Gazela



Water Supply Facility
Reni bunar

Belgrade Railway Station
Željeznički kolodvor
Beograd



2,3

2,0



Water Supply Facility
Reni bunar

Right Bank
Desna obala

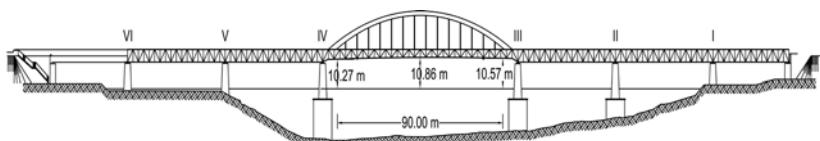
km
km

Left Bank
Lijeva obala

1,7



Water Supply Facility
Reni bunar



$$h_0 = 15,89 \text{ m}$$

Belgrade Road-Tram Bridge

$$\text{bpl} = 90,00 \text{ m}$$

$$h_{\text{nvpn}} = 10,27 \text{ m}$$

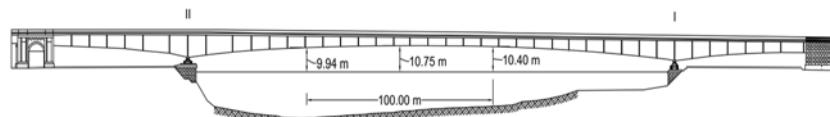
Police Terminal
Pristan riječne
policije



1,43

1,1

Cestovno-tramvajski most Beograd



$$h_0 = 15,55 \text{ m}$$

Road Bridge Belgrade
Brankov Bridge

$$\text{bpl} = 100 \text{ m}$$

$$h_{\text{nvpn}} = 9,94 \text{ m}$$



Belgrade Gauge (68,28 m)
Vodomjer Beograd



1,0

0,9

Cestovni most Beograd
Brankov most



0,82

0,8

Water Supply Facility
Reni bunar

0,7



Right Bank Desna obala	km km	Left Bank Ljeva obala
Border Crossing Pasenger Terminal Port Master Office Granični prijelaz Putnički pristan Kapetanija	0,7	
	0,5	 Water Supply Facility Rení bunar
Terminal Savsko pristanište-vertikalni kej	0,4	
	0,2	
	0,2	
Belgrade City Grad Beograd	0,0	  Sava Mouth Ušće Save
Right Bank of Danube River Desna obala Dunava rkm 1169,9		

**V
KUPA RIVER
RIJEKA KUPA**

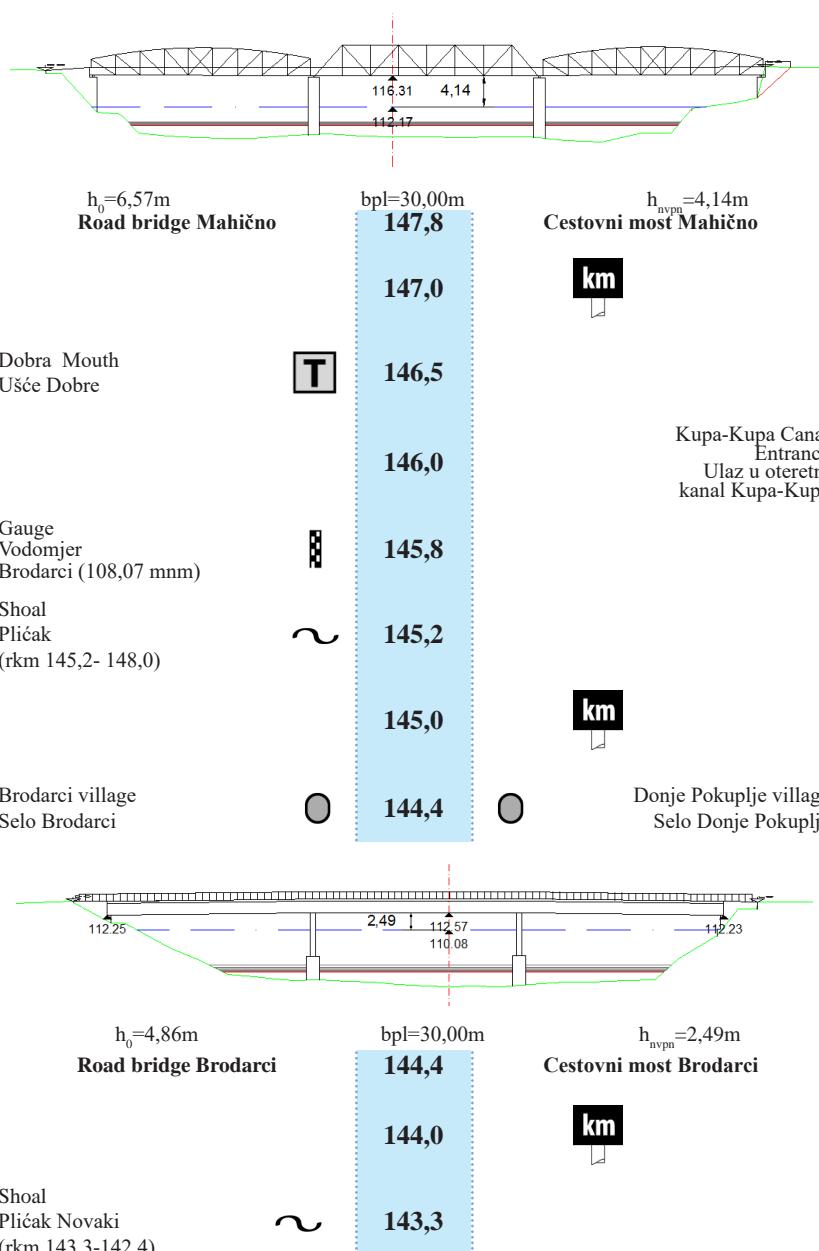
Right Bank Desna obala	km km	Left Bank Lijeva obala
Brana hidroelektrane Ozalj	162,6	Ozalj hydropowerplant
	162,0	Zajačko Selo village Selo Zajačko selo
	161,0	
Trg Island and Shoal Ada i plićak Trg (rkm 160,4-160,0)	~	160,4
Trg village (upstream part) Selo Trg (uzvodni kraj)		160,3
	160,0	
	159,5	
		Podbrežje village Selo Podbrežje
	159,0	
	158,0	
		Mirkopolje village Selo Mirkopolje
Trg village (downstream part) Selo Trg (nizvodni kraj)		157,8
	157,1	
	157,0	
	156,0	
Polje Ozaljsko village Selo Polje Ozaljsko		155,5

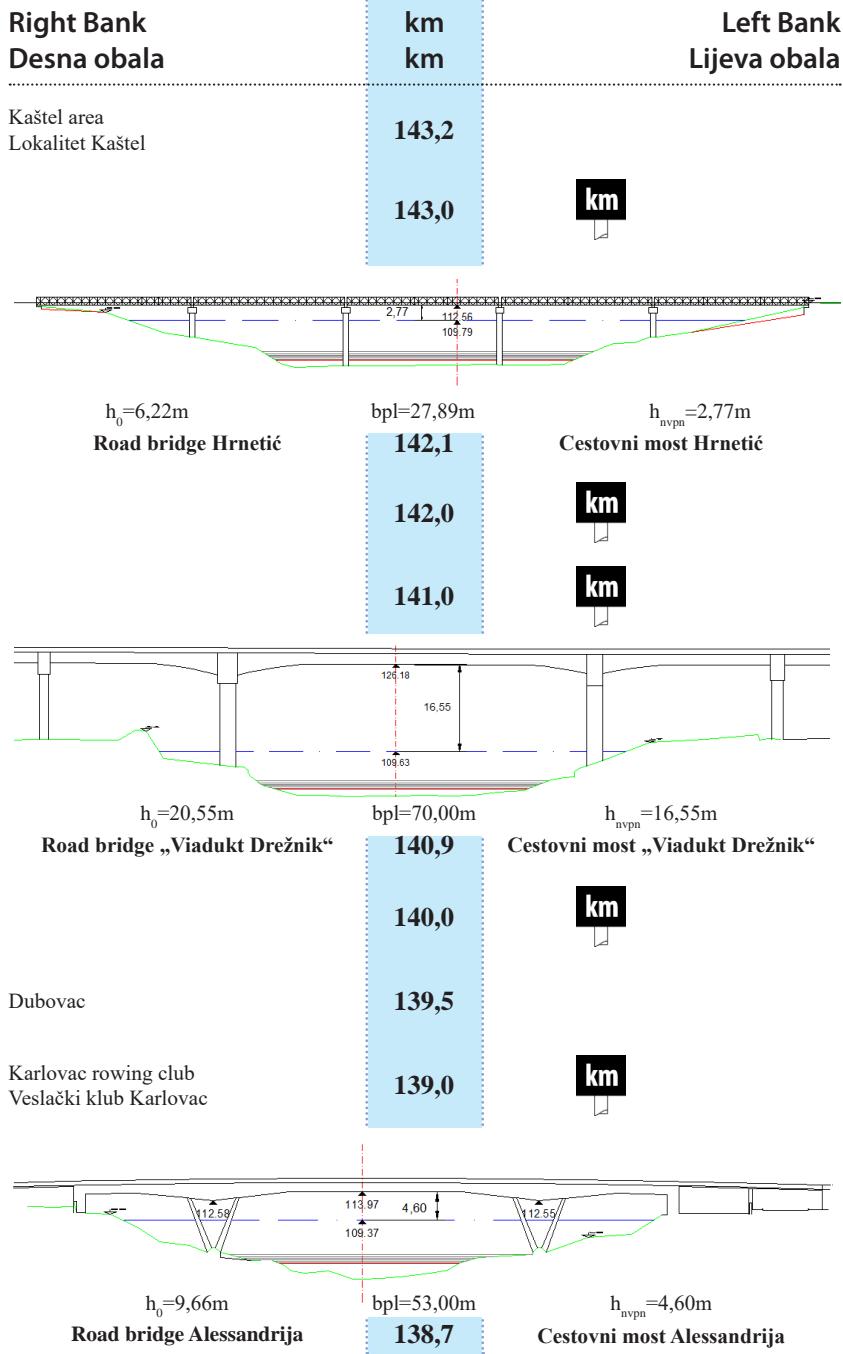
Right Bank Desna obala		km km	Left Bank Ljeva obala
Trešćerovac village Selo Trešćerovac	○	155,0	km
		154,5	km
		154,0	km
		153,0	km
Railway bridge Zorkovac	○	152,2	Željeznički most Zorkovac
Selo Zorkovac na Kupi	○	152,0	Zorkovac na Kupi village
		151,0	km
		150,0	km
Levkušje village Selo Levkušje	○	149,5	
		149,0	km
Shoal Pličak (148,0-145,2)	~	148,0	km
Gornje Pokuplje village Selo Gornje Pokuplje	○	147,8	Mahično village Selo Mahično

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala

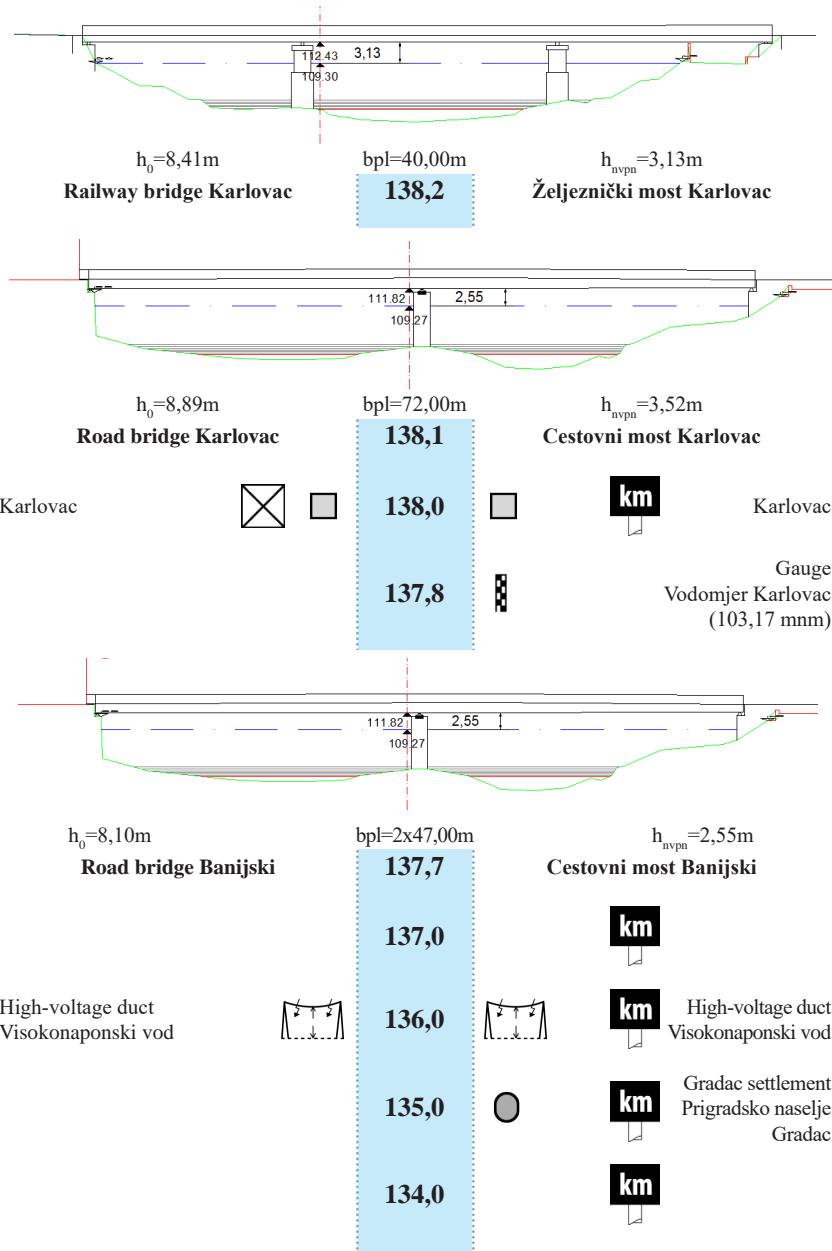




Right Bank
Desna obala

km
km

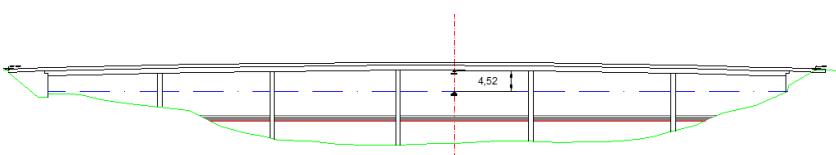
Left Bank
Lijeva obala



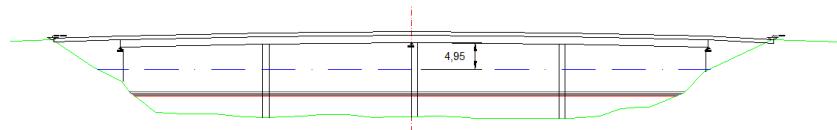
Right Bank Desna obala	km km	Left Bank Ljeva obala
	133,6	● Vodostaja settlement Naselje Vodostaja
Korana Mouth Ušće Korane	133,2	
	133,0	km
	132,0	km
Water treatment plant Uredaj za prečišćavanje	131,8	
	131,5	● Donje Mekušje village Selo Donje Mekušje
	131,0	km
	130,2	● Husje village Selo Husje
	130,0	km
Ex Ferry berthing place Rampa	129,6	Ex Ferry berthing place Rampa
Kamensko village Selo Kamensko	129,4	
	129,0	km
High-voltage duct Visokonaponski vod	128,5	High-voltage duct Visokonaponski vod
	128,0	km

Right Bank Desna obala	km km	Left Bank Lijeva obala
	127,6	Kobilić Pokupski village Selo Kobilić Pokupski
	127,0	
	126,0	
Bunker	125,3	Bunker
h ₀ = (nema DIK i VPN) Destroyed railway bridge Brodani Pokupski	125,3	Srušeni željeznički most Brodani Pokupski
	125,0	
Underwater duct Podvodni kabal	124,7	Underwater duct Podvodni kabal
Brodani village Selo Brodani	124,5	
	124,0	
Chanel Mouth Ušće kanala Brdani Sluice Ustava Brodani	123,5	
	123,0	
	122,7	Utinja curve Krivina Utinja

Right Bank Desna obala	km km	Left Bank Ljeva obala
	122,0	
	121,0	
	120,0	
Curve Krivina	119,5	Rečica Donja village Selo Rečica Donja
	119,0	
	118,0	
Curve Krivina	117,4	Luka Pokupska village Selo Luka Pokupska
	117,0	
	116,0	
	115,0	
	114,5	Zamršje village Selo Zamršje
	114,0	
	113,0	
Slunjska Selnica village Selo Slunjska Selnica	112,7	

Right Bank Desna obala	km km	Left Bank Lijeva obala
	112,0	km
Banska Selnica village Selo Banska Selnica	111,6	Blatnica Pokupska village Selo Blatnica Pokupska
		
$h_0 =$ (nema DIK i VPN) Road bridge Blatnica Pokupsko	$b_{pl} = 27,0 + 28,0 + 30,0 \text{m}$	$h_{vpn} = 4,52 \text{m}$
	111,6	Cestovni most Blatnica Pokupska
	111,0	km
	110,4	Koritinja village Selo Koritinja
	110,0	km
	109,0	km
	108,0	km
	107,0	Šišljadić village Selo Šišljadić
	106,0	km
	105,0	km
Banski Kovačevac village Selo Banski Kovačevac	104,5	

Right Bank Desna obala	km km	Left Bank Ljeva obala
	104,0	km
	103,0	km
	102,4	Former confluence of Kupčina Staro ušće Kupčine
	102,0	km
	101,0	km
	107,7	Mouth of Kupa-Kupa Chanel Ušće kanala Kupa-Kupa
	100,0	km
Novo Selo Lasinjsko village Selo Novo Selo Lasinjsko	99,0	km
	98,7	
	98,0	km
	97,0	km
	96,0	



$h_0 =$ (nema DIK i VPN)
Road bridge Jamnička Kiselica

bpl=2x28,00 m

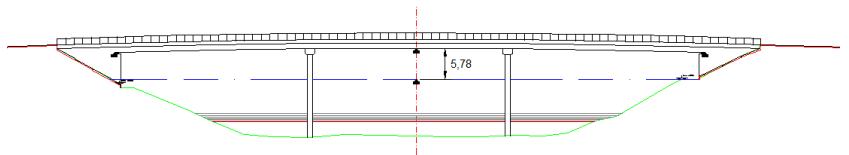
95,1

$h_{\text{vpn}} = 4,95 \text{m}$

Cestovni most Jamnička Kiselica

Right Bank Desna obala	km km	Left Bank Lijeva obala
	95,0	Jamnička Kiselica village Selo Jamnička Kiselica
	94,2	Gradec Pokupski village Selo Gradec Pokupski
	94,0	km
Shoal Plićak (rkm 93,4-90,0)	93,4	
	93,0	km
Lasinja village Selo Lasinja	92,0	km
Desno Sredičko village Selo Desno Sredičko	91,0	Lijevo Sredičko village Selo Lijevo Sredičko
Island Ada Sredičko (rkm 90,6-90,0)	90,6	
Shoal Plićak (rkm 90,0-93,4)	90,0	km
	89,0	km
	88,0	km
Desni Štefanki village Selo Desni Štefanki	87,0	Ljevi Štefanki village Ljevi Štefanki
	86,0	km
	85,0	km

Right Bank Desna obala		km km	Left Bank Ljeva obala
		84,0	
Shoal (upstream) Plićak Aguštanovec (gornji)	~	83,2	
		83,0	
		82,0	
Shoal (downstream) Plićak Aguštanovec (donji)	~	81,9	
Shoal Plićak Degoj (rkm 81,1-78,8)	~	81,6	 Aguštanovec village Selo Aguštanovec
		81,1	
		81,0	
		80,0	 Erected sign Postavljen znak
		79,2	 Lijevi Degoj village Selo Lijevi Degoj
		79,0	
Shoal Plićak Degoj (rkm 78,8-81,1)	~	78,8	
		78,0	
		77,0	
		76,3	 Pokupsko village Selo Pokupsko Recreation center Rekreacijski centar

Right Bank Desna obala	km km	Left Bank Lijeva obala
	76,0	km
High-voltage duct Visokonaponski vod	75,7	High-voltage duct Visokonaponski vod
		
$h_0 = \text{(nema DIK i VPN)}$	bpl=36,00 m	$h_{\text{vpn}} = 5,78\text{m}$
Road bridge Pokupsko	75,2	Cestovni most Pokupsko
	75,0	Erected sign Postavljen znak
	74,4	Pokupski Gladovec village Selo Pokupski Gladovec
	74,0	km
	73,0	km
	72,0	km
	71,0	km
	70,0	Erected sign Postavljen znak
	69,0	km
	68,0	km
	67,0	km

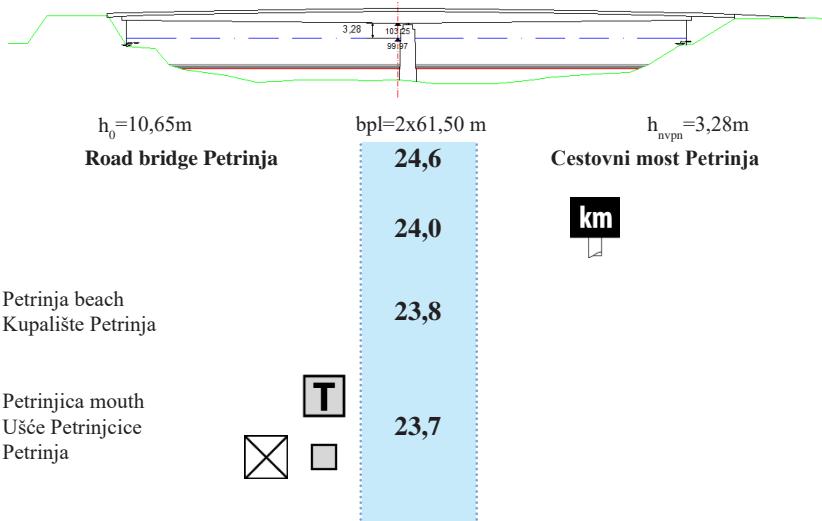
Right Bank Desna obala	km km	Left Bank Ljeva obala
	66,9	Šišinec village Selo Šišinec Gauge Vodomjer (94,81mm)
	66,0	km
High-voltage duct Visokonaponski vod		High-voltage duct Visokonaponski vod
Erected sign Postavljen znak Stankovac village Selo Stankovac	km	
	65,5	
	65,0	
	64,0	km
	63,0	km
	62,0	km
Glina Mouth Ušće Gline	T	
High-voltage duct Visokonaponski vod		High-voltage duct Visokonaponski vod
	61,7	
	61,0	
	60,3	Brkiševina village Selo Brkiševina
	60,0	km Erected sign Postavljen znak
	59,0	km
	58,0	km
	57,0	km

Right Bank Desna obala	km km	Left Bank Lijeva obala
	56,0	Pokupsko Vratečko village Selo Pokupsko Vratečko
High-voltage duct Visokonaponski vod		
Erected sign Postavljen znak		
	55,7	High-voltage duct Visokonaponski vod
	55,0	
	54,0	
Island Ada		
	53,9	
	53,0	
	52,0	
	51,5	Curve Krivina Farkašić
Novi Farkašić village Selo Novi Farkašić		
	51,1	
	51,0	
Island/Ada Shoal/Pličak		
	50,5	
Curve Krivina Farkašić		
	50,0	
	49,5	Stari Farkašić village Selo Stari Farkašić
	49,0	
	48,8	Gauge Vodomjer Farkašić (93,82 mm)

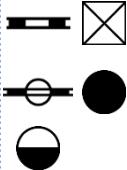
Right Bank Desna obala	km km	Left Bank Ljeva obala
	48,0	km
	47,7	○ Stari Brod village Selo Stari Brod
	47,0	km
	46,5	○ Stari Brod cottage settlement Vikend naselje Stari Brod
	46,0	km
	45,0	km Erected sign Postavljen znak
	44,0	km
Nebojan village Selo Nebojan	43,5	○
Shoal Plićak Nebojan (rkm 43,3-42,7)	43,3	~
	43,0	km
	42,2	○ Letovanić village Selo Letovanić
	42,0	km
Shoal Plićak	41,4	~
	41,0	km
Erected sign Postavljen znak	40,0	km

Right Bank Desna obala	km km	Left Bank Lijeva obala
	39,0	
Curve Krivina Žažinski Bok	38,8	
	38,5	
	38,0	
	37,0	
	36,0	
Curve Krivina Gorički Bok	35,7	
	35,0	
	34,0	
	33,0	
Shoal Pličak Zdenci (rk 32,7-32,0)	32,7	
	32,0	
Nebojan-Dumače village Selo Nebojan-Dumače	31,5	
	31,0	
Erected sign Postavljen znak	30,0	Mokrički Lug area Područje Mokrički Lug

Right Bank Desna obala	km km	Left Bank Ljeva obala
	29,3	Whirlpool Mokrički liman
	29,0	km
	28,0	km
	27,0	km
Novo Selište village Selo Novo Selište	26,5	
	26,0	km
	25,0	Erected sign Postavljen znak Brest Pokupski village Selo Brest Pokupski



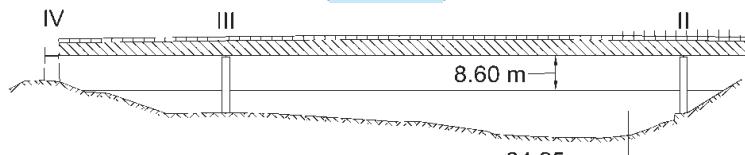
Right Bank Desna obala	km km	Left Bank Lijeva obala
	23,0	
	22,0	
	21,0	
	20,5	Vurot village Selo Vurot
	20,0	Erected sign Postavljen znak
High-voltage duct Visokonaponski vod	19,6	High-voltage duct Visokonaponski vod
	19,0	
Shoal Pličak Drenčina (rkm 18,0 - 16,3)	18,0	
	17,0	Stara Drenčina village Selo Stara Drenčina
	16,0	
Erected sign Postavljen znak	15,0	
	14,0	
	13,0	
Shoal Pličak Mošćenica (rkm 12,8 - 11,1)	12,8	
High-voltage duct Visokonaponski vod	12,2	High-voltage duct Visokonaponski vod

Right Bank Desna obala	km km	Left Bank Ljeva obala
Mošćenica village Selo Mošćenica	12,0	
High-voltage duct Visokonaponski vod	11,8	
Shoal Pličak Mošćenica (rkm 11,1-12,8)	11,1	
Water intake Vodozahvat	11,0	
High-voltage duct Visokonaponski vod	10,1	
Erected sign Postavljen znak	10,0	
Zibel Beach Kupalište Zibel	8,1	
	8,0	
	7,0	
	6,0	
	5,9	
	5,0	
Pogorelac Area Područje Pogorelac (rkm 5,0-3,5)	4,8	
		Staro Pračno village Selo Staro Pracno
		Odra Mouth Ušće Odre
		Port of Sisak Luka Sisak

Right Bank
Desna obala

km
km

Left Bank
Lijeva obala

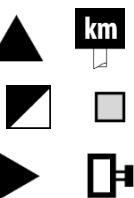


$h_0=15,51\text{m}$
New road bridge Sisak

bpl=34,25m
4,6

$h_{\text{vpn}}=8,60\text{m}$
Cestovni novi most Sisak

4,0



Sisak
Sisak



$h_0=5,48 - 13,98\text{m}$
Old road Bridge Sisak

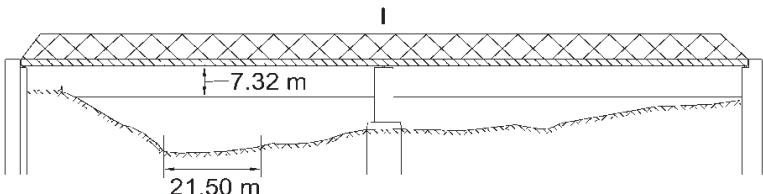
bpl=37,00m
3,5

$h_{\text{vpn}}=7,02\text{m}$
Stari cestovni most Sisak

3,0

2,7

Sisak Hospital
Bolnica Sisak



$h_0=14,11\text{m}$

bpl=21,50m

$h_{\text{vpn}}=7,32\text{m}$

Railway bridge Sisak

2,0

Željeznički most Sisak

Right Bank Desna obala	km km	Left Bank Ljeva obala
	km	2,0
		1,5
	km	1,0
Oill refinery Rafinerija nafte		0,5
		Sisak Old City Stari Grad

VI

DISTANCES BETWEEN LARGE CITIES UDALJENOSTI IZMEĐU VEĆIH GRADOVA

