

# Traffic and technical project



## design of highways, express ways, state roads and any other roads

Traffic – technical projects define the traffic signalization and the road equipment as well as the traffic regulation on certain routes of highways, express ways, state roads and any other roads. Project documentation includes the details regarding the solution for signalization, road and intersection equipment, as well as the description and the details regarding the facilities and other objects within the road, the intersections with existing roads, remote traffic

regulation, cable canalization and electricity supply for the traffic information system, all the bearing structures of traffic signalization, the system of remote control and monitoring and the LAN networks, the architecture and the solution of the traffic signalization of toll ways and their connection into the payment processing system, the centres for traffic maintenance and control, corresponding service facilities, temporary traffic regulation.







## HIGHWAYS

### Highway [HW] A1 Zagreb – Split – Dubrovnik [374,03km]

- route Karlovac – Zagreb [38,58 km]
- sector Bosiljevo – Saint Rok [143,43 km]
- sector Saint. Rok – Zadar II [52,75 km]
- sector Dugopolje – Zagvozd [111,77 km]
- sector Zagvozd – Ploče [27,5 km]
- sector Doli – Dubrovnik
- tunnels on the route: Mala Kapela [5,801 km], Grič [1,244 km], Plasina [2,3 km] and Brinje [1,561 km]
- toll ways: Lučko, Donja Zdenčina, Jastrebarsko, Novigrad, Bosiljevo, Ogulin, Brinje, Otočac, Perušić, Gospić, Gornja Ploča, Sveti Rok, Maslenica, Posedarje, Zadar 1, Zadar 2, Pirovac, Skradin, Šibenik, Vrpolje, Prgomet, Vučevica, Dugopolje, Bisko, Blato na Cetini, Ravča Karamatići
- toll payment systems on toll ways
- reconstruction of the access to the toll payment stop Lučko from the direction of Karlovac
- centre for traffic control and maintenance [COKP]: Plasina, Mala Kapela, Dugopolje, Zagvozd, Vrgorac
- corresponding service facilities PUO Zdenčina-zapad, PUO Desinec, PUO Dobra, PUO Modruš, PUO Jezerane, PUO Brinje, PUO Brloška Dubrava, PUO Ličko Lešće, PUO Janjče, PUO Lički Osik, PUO Zir, PUO Jasenice, PUO Mosor, PUO Kotlenica, PUO Župa
- architectonics: PČCP Zemunik Gornji, CP Vrpolje, CP Bisko, CP Šestanovac, PUO Kotlenica i PUO Mosor, proširenje ČCP Lučko along with three new passages and the construction of a parking lot counting 81 parking spot
- temporary regulation of traffic during the period of construction of certain sections of the highway
- connection roads for intersections and existing traffic roads

### HW A2 Zagreb – Macelj [40,63km]

- route intersection Jankomir – čvor Zaprešić [7,4 km]
- route Krapina – Macelj [33,23 km]
- toll ways: Zaprešić, Gubaševo, Začretje, Krapina, Đurmanec, Trakošćan
- temporary regulation of traffic during the period of construction of certain sections of the highway
- parallel road

### HW A3 Bregana – Zagreb – Lipovac [208,4km]

- route Velika Kapanica – Županja [25,95 km]
- route Županja – Lipovac [29,43 km]
- sector ČCP Ivanja Reka – Velika Kapanica [208,4 km]
- intersections: Kosnica, Rugvica
- toll ways: Bregana, Ivanja Reka, Rugvica, Ivanić Grad, Križ, Okučani, Slavonski Brod – Zapad, Slavonski Brod – Istok, Babina Greda, Županja, Spačva, Lipovac
- toll payment systems on toll ways
- management of traffic for ENC users at the toll payment stop Ivanja Reka
- centre for traffic control and maintenance [COKP]: Ivanja Reka, Kutina, Okučani, Slavonski Brod, Županja
- corresponding service facilities PUO Gradna
- architecture: reconstruction ČCP Ivanja Reka
- temporary regulation of traffic during the period of construction of certain sections of the highway
- connection roads from intersections to the existing roads [connection point Babina Greda – to the existing road D520]

### HW A4 Zagreb – Goričan [96,9km]

- sector Ivanja Reka – border with Hungary [96,9 km]



- Toll ways: Sveta Helena, Komin, Breznički Hum, Novi Marof, Varaždinske Toplice, Varaždin, Ludbreg, Čakovec, Goričan,
- regulation of goods traffic
- corresponding service facilities PUO Varaždin, PUO Novi Marof
- temporary regulation of traffic during the period of construction of certain sections of the highway
- connection roads for intersections and existing traffic roads

### HW A5 Beli Manastir – Osijek – Svilaj [88 km]

- sector Beli Manastir – Sredanci [88 km]
- Toll ways: Velika Kapanica, Đakovo Osijek
- toll payment systems on toll ways
- centres for traffic control and maintenance [COKP]: Đakovo, Čepin
- corresponding service facilities PUO Andrijevići, PUO Ivandvor, PUO Beketinci, PUO Strossmayerovac, PUO Baranja, PUO Mursa
- temporary regulation of traffic during the period of construction of certain sections of the highway
- connection roads for intersections and existing traffic roads

### HW A6 Bosiljevo – Rijeka [81,2 km]

- route Orehovica – Kikovica – Oštrovica
- sector Kupjak – Oštrovica
- tunnels: Vršek [856 m], Tuhobić [2141 m]
- Toll ways: Bosiljevo, Vrbovsko, Ravna Gora
- surveillance system designed to monitor the traffic of vehicles carrying dangerous cargo on the highway
- recognition system for licence plates and integration into the charging system





- management of traffic for ENC users at the toll payment stop Lučko
- height control for vehicles on access roads of: Lučko, Jastrebarsko, Karlovac, Bosiljevo I, Vrbovsko, Ravna Gora, Delnice, Vrata, Oštrovica, Grobnik
- corresponding service facilities PUO Tuhobić
- temporary regulation of traffic during the period of construction of certain sections of the highway
- connection roads for intersections and existing traffic roads

#### **HW A7 Rupa – Žuta Lokva [81 km]**

- sector Jurdani – border with Slovenia [11 km]
- sector Križišće – Žuta Lokva [56 km]
- route Orehovice – Dv. Kuzam – Križišće [14 km]
- Toll ways: Rupa
- centres for traffic control and maintenance [COKP]: Rupa
- corresponding service facilities PUO Rupa
- temporary regulation of traffic during the period of construction of certain sections of the highway
- Sector 3 Kanfanar – Rogovici [18km] traffic-information system design

#### **HW A8 Istarski Y [16,53 km]**

- route Rogovići – Kanfanar [16,53 km]
- tunnels: Učka [5,062 km] Centre for maintenance and traffic monitoring
- toll ways: intersection Vranja: Lupoglav, Cerovlje, Ivoli, Rogovići, Žminj, Kanfanar
- temporary regulation of traffic during the period of construction of certain sections of the highway
- Sector 1 Umag – Kanfanar, Sector 2 Kanfanar – Pula [76,79km] traffic-information system design

#### **HW A9 Istarski Y [71,49km]**

- sector Umag – Bale [57,82 km]
- route Vodnjan – Pula [13,67 km]

- intersection Kanfanar
- Toll ways: Vodnjan, Medaki, Mirna
- temporary regulation of traffic during the period of construction of certain sections of the highway

#### **HW A10 Border crossing with Bosnia and Herzegovina – Mali Prolog – Ploče [6,5km]**

- sector Mali Prolog – Čvor Ploče – Border with BIH [6,5 km]
- temporary regulation of traffic during the period of construction of certain sections of the highway
- connection roads for intersections and existing traffic roads

#### **HW A11 Zagreb – Sisak [10,80 km]**

- route Lekenik – Sisak [10,80 km]
- intersection Stupno
- Toll ways: Sisak
- toll payment systems on toll ways

#### **HW A12 Sv. Helena – Vrbovec – Koprivnica, [30,50 km]**

- route: Gradec-Velika Mučna [30,50 km]
- subroute: Gradec – Kloštar
- traffic– technical projects of the highway
- architectural projects for high-rise buildings

#### **HW A13 Vrbovec 2 – G.P. Terezino Polje [27,53 km]**

- route Vrbovec 2 – Bjelovar [27,53 km]

#### **New beltway for Zagreb [106 km]**

##### **I. Route: Luka – Horvati**

- traffic and IT projects, installation and tunnel equipment
- providing the architectural solution and the full equipment for the buildings – objects on the highway



## II. Route : Horvati – Ivanić Grad

- traffic equipment and signalization projects
- reconstruction of the intersection Lučko

## III. Route: Ivanić Grad – Zelina

- traffic and traffic-information projects, installations and tunnel equipment
- providing the architectural solution and the full equipment for the buildings – objects on the highway

## EXPRESS WAYS

### Express way Udbina – Gornja Ploča [6,2 km]

### Express way Mostanje – V. Cerovac [6,1 km]

### Express way Šibenik – Drniš – Knin – Border crossing with Bosnia and Herzegovina [BiH] [4,9 km]

- route Šibenik – Tromilja; subroute intersection Ražine – Dubrava

### Express way Stobreč – Omiš

- route Stobreč – Dugi Rat [9,9 km]
- subroute Grljevac – Dugi Rat [4,2 km]

### Express way Vrbovec – Bjelovar

- from km 6+250,00 to km 27+530,00 [stage 2, 3, 4 i 5]

## STATE ROADS

### State road D1

- connection to the industrial zone Kukuruzovac to the state road D1

### State road D3

- section D. Puštakovec – Štefanec

### State road D6

- route Netretić – Lišnica; part 1 Netretić – intersection Novigrad [10,5 km]

### State road D8

- route Orehovica – Draga – Sv. Kuzam/Bakar [6,4 km]
- sector Saint. Kuzam – Križišće [9 km]
- sector Solin – Plano [15,3 km]
- route Solin – Kaštel Sućurac; temporary traffic regulation during reconstruction [4,3 km]

### State road D10

- Section Gradec – Križevci [12 km]

### State road D24

- Section Zl.Bistrica – Galovec

### State road D29

- Section N. Golubovec – Zl.Bistrica [civil engineering design, traffic and installation design]

### State road D32

- reconstruction of the state road sub-route Crni Lug – Malo Selo – temporary traffic regulation during reconstruction works

### State road D35

- Novi Golubovec – traffic signalization and equipment design

### State road D39

- route Zadvarje – Vukušići [5,6 km]

### State road D41

- reoute Sv. Helena – Gradec; overpass Grabrić

### State road D43

- regulation of traffic nearby the rural tourism facility of the Kezele family
- diversion of the D43 towards the zone 3 [plant Kraš]
- diversion of the D43 towards the zones 4 and 5 [Šiftarova Street]
- diversion of the D43 towards the zone 6

### State road D102

- temporary regulation of traffic during the construction works on the bridge Krk

### State road D410

- route 001 Split ferry port – Split D8; intersection D410 and Velebitska street

### State road D 518 Osijek – Gaboš – Jarmina

- route Ada – Jarmina [15 km]

### State road D532 Zagvozd – Baška Voda

- tunnel Sv. Ilija [Biokovo]
- access road to the Northern portal of the tunnel [8 km]
- access road to the Southern portal of the tunnel

### Remote traffic regulation on the State roads

- intersections: Posedarje 1 Posedarje 2, Posedarje 3, Obrovac, Zadar 1, Poličnik, Islam Latinski, Biljane Donje, Šopot, Benkovac 1, Benkovac 2, Kruševo, Pridraga, Zaton Obrovački, Gračac 1, Gračac 2, Josipdol 1, Josipdol 2, Skračin, Karin, Karlovac, Stara Straža, Knin centar, Split – luka, Knin sjever, Sinj, Klis, Udbina, Split – Bilice, Split – Domovinskog rata, Biograd na moru, Dubrava kod Pirovca, Brnaze, Bruvno, Osoje, Korenica, Borje, Prijeboj, Ličko Petrovo Selo, Rastovača, Grabovac, Krnjak, Brezova Glava, Krapina, Đurmanec, Donji Macelj, Sučevići, Lički Osik, Sinj 2, Gospić 1, Gospić 2, Šibenik – Bilice, Šibenik – Ražine, Čovići, Otočac, Senj – sjever, Senj – centar, Bosanci, Žuta Lokva, Seget Donji, Bribirske Mostine, Varivode, Lozovac, čvor Čavle, čvor Orehovica, čvor Škurinje, rotor Novi Marof

### Direction signalization on remote intersections of the county of Istra

### Intersection railway and state road

- railway Oštarije – Knin – Split; route Perušić – Gračac; sub-route bridge Jaruga – Gračac

## COUNTY ROADS

- intersection state roads 3041 and 3074 in Kloštar Ivanić
- relocation of the county road Ž5062
- out of ordinary maintenance of county roads [CR] 3070 [4,0 km], CR 3016 [3,0 km]

## CITY ROADS

### Samobor

- Tourist traffic signs and signals

### Access Terminal of the Ploče Port

### Solin

- Mravinci ramps in Solin [0,5 km]

### Elaborat of the temporary traffic regulation on railroad crossings

- crossings: Graboštani, Bročice, Dobrovac, Lipik, Volinje, Čukur, N.Subocka, Majur, Ivanić Grad, Hrastovec, Vedro Polje, Četvrtkovec, Sunja, Hrvatska Kostajnica, Stupno, Križ, Kurilovec, Velika Gorica, Pojatno, Popovača

### Zagreb

- Peščenica north residential-business object – K9