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PRVENSTVO SRBIJE U MARATONU ZA SENIORE/KE

PROGRAM BILTEN br. 1

ORGANIZATOR: NOVOSADSKI MARATON
TEHNIČKI ORGANIZATOR: SRPSKI ATLETSKI SAVEZ
Novi Sad, 9. 10. 2022.

UKOVODSTVO

	09.10.2022. godine/nedelja
Direktor takmičenja	DOLGA Milan
Tehnički rukovodilac	DOLGA Dimitrije
Rukovodilac sekretarijata	PRAŠTALO Suzana
Rukovodilac sudijske službe	MILOJEVIĆ Biljana
Protokol proglašenja pobednika	IGNJATIĆ Daniela
Rukovodilac lekarske službe	Služba Hitne pomoći Novi Sad
Spiker	DEJANOVIĆ Zoran
Elektronsko merenje rezultata	ĆIRIĆ Jožef
Glavni sudija	STANČETIĆ Snežana
Šef sudija u cilju	GLUHAK Katica
Starter	GLUHAK Anton
Lice za bezbednost SAS	TODOROV Dragan
Tehnički delegat SAS	ČEGAR Goran



PRVENSTVO SRBIJE U MARATONU ZA SENIORE/KE

Novi Sad, 09. 10. 2022. godine



TEHNIČKO UPUTSTVO

Datum održavanja

Takmičenje se održava u nedelju, 09. 10. 2022. godine.

Organizator:

Novosadski maraton.

Mesto održavanja

Takmičenje se održava na prostoru Grada Novog Sada

Start li cilj trke u centru Novog Sada (Miletićev trg). Podloga na kojoj se trči je asfaltna.

Tehničko-informativni centar

Tehničko informativni centar biće postavljen u dvorištu Hotela Vojvodina (u neposrednoj blizini starta). Radno vreme TIC-a je od 08.00 do 09.00 časova, 09.10.2022.godine.

U TIC-u, službeni predstavnici klubova mogu

- podići Bilten 1. (startnu listu)

Prilikom preuzimanja Biltene 1, SLUŽBENO LICE KLUBA na takmičenju MORA posedovati lekarske preglede. **Službena lica moraju da predaju kopije lekarskih pregleda tehničkom delegatu za sve takmičare.**

Oblik staze

Staza je zvanično sertifikovana od strane oficijelnog merioca AIMS I WA (A licenca). Start i cilj su na istom mestu. Staza će biti vidljivo obeležena i pokrivena sudijskim žirijem. Staza je kružna trči se od starta u centru kroz Dunavsku ulicu do Doma Vojske Srbije (877,42 metra) odakle se ulazi u Kej žrtava racija ide prvo jedan manji krug i nakon toga 4 veća kruga (5742,20 metara – mali krug, 8674,49 metara – veliki krug), posle završetka četvrtog velikog kruga ulazi se posle Doma Vojske u poslednjih 877,42 metra kroz ulicu Dunavsku i trči se do cilja. Staza može da se vidi preko linka: <https://youtu.be/SXzBIJ3zzIY> - 30.Novosadski maraton 2022. staza trke 42km

Program takmičenja

Ceremonija otvaranja, nedelja 09.10.2022. godine, u 09.45 časova u centru Novog Sada (start trke)

Start trke za seniore i seniorke: nedelja 09.10.2022. godine u 10.00 časova.

Proglašenje pobednika za Prvenstvo Srbije održaće se u 13.45 časova u zoni starta i cilja.

Ceremonija otvaranja takmičenja

Takmičari/ke, učesnici Prvenstva Srbije u maratonu, na poziv službenog spikera, treba da se okupe kod starta 09.10. u 09.40 časova.

Ceremonija svečanog otvaranja počće intoniranjem himne Republike Srbije u 09.45 sati. Takmičenje će otvoriti predstavnici Grada Novog Sada i Srpskog atletskog Saveza.

Pravo nastupa

Pravo nastupa na takmičenju imaju atletičari seniore i seniorke koji su registrovani za sportske klubove učlanjene u SAS, uz uslov da poseduju ispravnu takmičarsku legitimaciju, da su od strane kluba prijavljeni za takmičenje i da imaju **potvrdu o obavljenom lekarskom pregledu (ne stariji od tri meseca).**

Svlačionice

Svlačionice koje će se koristiti za presvlačenje će se nalaziti u dvorištu Hotela Vojvodina u blizini starta i cilja, koje će biti obeležene sa natpisima "MUŠKA", "ŽENSKA". Stvari će moći da se ostave na obezbeđenom punktu u dvorištu Hotela Vojvodina.

Zagrevanje

Zagrevanje takmičari vrše na terenima oko starta trke.

Prijemni centar

Prijemni centar će biti postavljen u zoni starta. U prijemnom centru će se vršiti kontrola opreme i startnih brojeva:

Takmičari su dužni da pokažu:

- klupsku majcu u kojoj će takmičiti.
- takmičarski broj zakačen na prednjoj strani gornjeg dela dresa.

Takmičarski broj ne sme da bude isečen, savijen, tj. mora biti vidno postavljen u kompletnoj dimenziji, što znači da moraju da se vide svi elementi na broju (reklama, naziv takmičenja). Takođe na zadnjoj strani startnog broja se nalazi čip koji mora da bude neoštećen.

Ulazak u prijemni centar je 20 minuta pre starta a izlazak na start je 15 minuta pre starta trke.

Proglašenje pobednika

Tri prvoplasirana/ne takmičara/ke u, OBAVEZNI su da se jave u protokol ceremonijala, najkasnije u 13.30 časova.

Proglašenje pobednika obaviće se u 13.45 časova na bini u zoni starta i cilja.

Tri najbolje plasirana takmičara/ke na Prvenstvu Srbije dobijaju medalje i diplome SAS.

Takmičari koji nastupaju na Prvenstvu Srbije ulaze u sveukupan plasman 30. Novosadskog maratona i dobijaju nagrade predviđene za tri prvoplasirana takmičara/ke.

Merenje i objavljivanje rezultata

Merenje rezultata vršiće se ručno i elektronski (čip sistem).

Preliminarni rezultati biće okačeni na oglasnoj tabli u blizini cilja, i na linku <https://www.marathon.org.rs/maraton/> a oficijelni rezultati biće biti prosledeni klubovima na email adrese, najkasnije 48 sata po završetku takmičenja. Na web sajt: www.sas.org.rs, biće objavljeni i zvanični rezultati prvenstva Srbije u maratonu.

Žalbe

Usmeni prigovor se podnosi glavnom sudiji na cilju najkasnije 30 minuta posle objavljivanja preliminarnih rezultata. Prigovor podnosi sam atletičar ili službeno lice kluba u usmenoj formi.

Posle odluke glavnog sudije, ukoliko oštećena strana nije zadovoljna, u roku od 30 min. po dobijanju odluke, službeno lice kluba, podnosi pismenu žalbu Vrhovnoj sudijskoj komisiji uz depozit od 5.000,00 dinara. Ako se protest uvaži depozit se vraća podnosiocu zahteva.

Zdravstvena služba

Svi takmičari/ke nastupaju na takmičenju na svoju ličnu odgovornost ili odgovornost klubova koju su ih prijavili. Za vreme takmičenja obezbeđena je lekarska ekipe koja će biti vidno obeležena, koja će se nalaziti u predelu starta – cilja.

Svi takmičari i službena lica na Prvenstvu Srbije moraju poštovati propisane mere zaštite od COVID-19.

Skica staze



**SVIM UČESNICIMA ŽELIMO PRIJATAN BORAVAK U NOVOM SADU
KAO I DOBRE REZULTATE NA TAKMIČENJU**

START LIST

SM - maraton - seniori (MAR) - 2022-10-09

National Marathon Championships (Serbia Marathon Championships) - 09 Oct 2022 - START TIME: 10:00

Lane	Bib	Name	Club	Date of Birth	PB	SB
1	14	Bojan Jocić	BEC	1987-07-07		
2	10	Ivan Miškeljin	PPP	1977-06-21		
3	3	Aleksandar Radukin	APA	1983-05-22		
4	6	Igor Bakoš	APA	1984-12-12		
5	2	Živa Vijoglavin	APA	1978-01-20		
6	9	Željko Končar	APA	1982-03-19		
7	5	Bojan Manojlović	APA	1980-02-02		
8	4	Zoran Škorić	APA	1981-06-19		
9	13	Ljubiša Savić	OAK	1974-03-30		
10	16	Damir Milankov	SOM	1976-06-17		
11	7	Rajmond Halai	APA	1972-01-29		
12	8	Saša Antić	APA	1963-04-19		
13	12	Veljko Popović	HMK	1965-08-08		
14	15	Zoran Ovcin	FGNS	1966-03-08		
15	11	Zoran Janković	HMK	1956-03-08		
16	1	Đuro Borbelj	APA	1995-05-16		

START LIST

SZ - maraton - seniorke (MAR) - 2022-10-09

National Marathon Championships (Serbia Marathon Championships) - 09 Oct 2022 - START TIME: 10:00

Lane	Bib	Name	Club	Date of Birth	PB	SB
1	18	Kristina Jovičić	TOP	1990-03-25		
2	20	Albina Tarjan Tobolka	FGNS	1984-07-07		
3	19	Tijana Kabić	SOM	1984-03-14		

INTERNATIONAL MEASUREMENT CERTIFICATE

Name of Race

Distance

Location

Country

Date of Race

Date of Measurement

Elevation Change

Separation

% of race distance

Name(s) of the measurer(s)

World Athletics – AIMS Grade

Country

Certificate Number

Expiry Date

International Measurement Administrator

Registered On

Signed



This certificate certifies that the length of the above road race has been established by an accredited World Athletics – AIMS Grade A or B measurer employing the method of a bicycle calibrated with a “Jones Counter”. It remains valid for 5 years subject to the course defined in the full measurement report submitted by the measurer being unchanged in any way. Any modifications to the course, however minimal, will nullify this Certificate and require a new measurement to be undertaken. Possession of this certificate does not indicate any sanction of the race by World Athletics or membership of AIMS.

In cooperation with



MEASUREMENT REPORT

NOVI SAD MARATHON, HALFMARATHON and 10km



Novi Sad Marathon

by Borut Podgornik
AIMS/WA course measurer

Staneta Severja 14
2000 Maribor, Slovenija
E-mail: borut.podgornik@triera.net
mobile: +386 41 664412

SUMMARY OF MEASUREMENTS NOVI SAD MARATHON, HALFMARATHON and 10 km

Date of measurement: 14. 8. 2022

How many measurements of the course were made? 3

Name of measurer: Borut Podgornik

How much of the road width is available to runners throughout the length of the road race course?

Only right half of the roads is available to runners on the whole course except app. 300m in both lap 1 and 2 for the marathon and halfmarathon where there is a section run also on the left half of the roads just before left bend into University area (see descriptions with pictures below). The roads should be divided with fences and cones in the middle (including turning points).

If the route at turns cannot be described as the „shortest possible route“, explain what restrictions will apply, and how these will be enforced?

The course was measured as the shortest possible route only on right halves of the roads with exceptions above where the measurement was done also to the left edge of the road.

Length of course after any adjustment: 42.195,00 m, 21.097,50 m, 10.000,00 m

Difference between longest and shortest measurement: /

Which measurement was used to establish the final course length and WHY?

The final length of the course was established after bicycle postcalibration and moving the turning points D, E, F, G and H for respective event to the correct length (see data sheet below).

OVERVIEW OF THE MEASUREMENT PROCEDURE

Novi Sad has a great tradition by organizing the road races. So they organize a marathon in autumn, a halfmarathon in spring and 10km in summer. All events are organized by a company Novi Sad marathon. As Novi Sad is the second biggest city in Serbia, a great number of runners is always participating in all these events. Most people are running a halfmarathon as this is the most traditional event, but also marathon and 10km are very popular. As the course for all three events is similar and using practically the same roads, I was measuring all three courses in the same day. The date of the marathon for this year is Sunday, 9th October, halfmarathon is on 26th March 2023 and 10km on 9th June 2023.

The organizer decided to make new measurement of all courses although they already had a certificates before, but due to some road works on the course many things were changed.

The specificity of this event is that they have start and finish point for marathon and halfmarathon the same in the center of the town, so the course goes like this: first part is cca 890m long from the city center to the road along the Danube river (point A), then after right bend the course make lap 1 and after reaching the point A again lap 2 multiple times. But these lap 1 and lap 2 are different for marathon and halfmarathon – see data sheet below, the last part is the same as a first part (cca 890m back to finish line in the center of the town). The course starts on Freedom Square (Trg Slobode), parallel to the front pillars of entrance to City Hall – see picture 5, just 3,14m before near edge of drain cover in the center of the square – see picture 6. For 10 km the start is just app. 40 m away from the Key along Danube river and as I already wrote using the same roads, but with another turns.

I have used the same road for calibration course along the Danube river (pictures 1 to 4) as some years ago. Actually this walking path was already used at the previous measurements, but I designed the new one with different start and finish points as before. The calibration course is app. 2,5km away from the City center, so easy to reach. Bicycle calibration was done before and after the measurement as a standard procedure on this course.

The measurement of the course was quite simple this time. I started at the starting point of the race in the Freedom Square and made a ride with a bicycle in running direction on shortest possible route accompanied with a car of organizer in the back and an assistant on the bike who knew the course very well in the front till point A. From there I made an intermediate points, B', B, C, D and A' for marathon lap 1 and wrote down the counter readings (see data sheet). Next measurement was done for marathon in lap 2 again from point A with points B', H, B, C and A' to get a distance for the marathon by calculate all the figures. Marathon is run in one lap 1 and 4 laps 2 + the distance from start to point A to then back from A' to the finish. The same measurement was done for halfmarathon which is run in one lap 1 + 2 laps 2 (different as for the marathon!!!) + the same distance S-A + A'-F. Also for 10km the measurement was done on the same manner, but only 2 the same laps with different turns again (see data sheet below). The organizer shall provide a separation in the middle of roads with fences and cones all the way (especially at the turns!).

The course is on tarmac road all the way and relatively flat (see picture 17), the difference between lowest and highest point is 10m. Start/finish is at 85m.

DETAIL OF THE CALIBRATION COURSE

- 1 Name of event: Novi Sad marathon, halfmarathon and 10 km race
- 2 City/town: Novi Sad, Serbia
- 3 Location of calibration course: walking path beside the Danube river cca 500m east of new built bridge over the Danube river (not opened yet), start 38,41m further diagonal from near edge of water pump building on the left side (see picture 1), 30cm from the right edge of walking path (see picture 2), finish 13,28m diagonal and after 4th light pole on the left side (see picture 3) + 9,91m parallel from near edge of drain cover on the left side (see picture 4), again 30cm from the right edge of walking path (see picture 5).
- 4 Length of calibration course: 300,00m
- 5 Date measured: 11. 3. 2018
- 6 Method used to measure calibration course: 50m steel tape (20°C, 50N)
- 7 How many times did you measure the calibration course? 2x
- 8 Measurement team leader: Borut Podgornik
- 9 Address of team leader: Staneta Severja 14, 2000 Maribor, Slovenia
- 10 Phone contact of team leader: +386 41 664412
- 11 Email address of team leader: borut.podgornik@triera.net
- 12 List names and duties of team members: Helena Javornik, assistant
- 13 Is the calibration course: STRAIGHT? YES PAVED? YES
- 14 How are the start and finish points marked? PK nails
- 15 Are the start and finish points located in the road where a bicycle wheel can touch them? YES
- 16 Number of full tape lengths 6 Total length: $6 \times 50\text{m} = 300\text{m}$



STEEL TAPING DATA SHEET (for measuring a calibration course)

Name of calibration course: walking path beside the Danube river

City/town and State: Novi Sad, Serbia

Date: 11. 3. 2018

Start time: 12.00 **Finish time:** 12.40

Pavement temperature: Start 19°C Finish 19°C Average 19°C
(thermometer shaded from direct sun)

Measurements and calculations:

- 1 First measurement. This establishes tentative start and finish marks which should not be changed until the final adjustment on line 6 below.

$$\begin{array}{ccccccc} 6 & \times & 50,00\text{m} & + & / & = & 300,00\text{m} \\ \# \text{ tape} & & \text{distance per} & & \text{partial tape} & & \text{measured} \\ \text{lengths} & & \text{tape length} & & \text{length} & & \text{distance} \end{array}$$

- 2 Second measurement. This checks the distance between the SAME tentative start and finish points marked in the first measurement, but use new intermediate taping points.

$$\begin{array}{ccccccc} 5 & \times & 50,00\text{m} & + & / & = & 300,000\text{m} \\ \# \text{ tape} & & \text{distance per} & & \text{partial tape} & & \text{measured} \\ \text{lengths} & & \text{tape length} & & \text{length} & & \text{distance} \end{array}$$

- 3 Average raw (uncorrected) measurement of course: 300,000m

- 4 Temperature correction. Use the average pavement temperature during measurement. Work out answer to at least seven digits beyond the decimal point.

$$\text{Correction factor} = 1.0000000 + (.0000116 \times [19 - 20])$$

$$\text{Correction factor} = 0,9999884$$

NOTE: For temperatures below 20C, factor is less than one

For temperatures above 20C, factor is greater than one

- 5 Multiply the temperature correction factor by the average raw measurement of the course

$$\begin{array}{ccccccc} 0,9999884 & \times & 300,000\text{m} & = & 299,99652 \\ \text{correction factor} & & \text{avg. raw measurement} & & \text{corrected measurement} \end{array}$$

- 6 I moved the finish mark for 4mm onwards and drive PK nail into the road.

Final (adjusted) length of calibration course 300,00m

BICYCLE CALIBRATION DATA SHEET

Name of event: Novi Sad marathon, halfmarathon and 10 km

Date of measurement : 14. 8. 2022

Name of measurer: Borut Podgornik

Length of calibration course: 300,00m

PRE-CALIBRATION - ride the calibration course four times, recording data as follows:

<u>Ride</u>	<u>Start Count</u>	<u>Finish count</u>	<u>Difference</u>
1	68000	71287	3287
2	71287	74574	3287
3	74574	77860	3286
4	77860	81148	3288

Time of day: 7.00

Temperature: 18°C

WORKING CONSTANT = number of counts in one kilometre, calculated from the pre-measurement average count, and multiplied by 1.001 – the „short course prevention factor“

Pre-measurement average count = 3287

Counts per km = pre-measurement average count x 1000/length of calibration course in metres

Working Constant = counts per km x 1.001 = **10.967,623333334**

POST-CALIBRATION - ride the calibration course four times, recording data as follows:

<u>Ride</u>	<u>Start Count</u>	<u>Finish count</u>	<u>Difference</u>
1	79000	82287	3287
2	82287	85574	3287
3	85574	88861	3287
4	88861	92147	3286

Time of day: 11.40

Temperature: 22°C

FINISH CONSTANT = number of counts in one kilometre, calculated from the post-measurement average count, and multiplied by 1.001 – the „short course prevention factor“

Post-measurement average count = 3286,75

Counts per km = post-measurement average count x 1000/length of calibration course in metres

Finish Constant = counts per km x 1.001 = **10.966,789166666**

CONSTANT FOR THE DAY = the average of the working constant and the finish constant = **10.967,20625**

COURSE MEASUREMENT DATA SHEET

Name of event: Novi Sad marathon, halfmarathon and 10 km

Name of measurer: Borut Podgornik

Date of measurement: 14. 8. 2022

Start time: 8.20 Temperature: 19°C

Finish time: 12.45 Temperature: 23°C

Constant for the Day: 10.967,20625 counts/km

MEASUREMENT DATA 1 (marathon)

Measured point	Counter reading	Cumulative counts	Cumulative distance in m	Adjustment in m
LAP 0				
S/F 3,14m before near edge of drain cover on Freedom Square (Trg Slobode) – see picture 6), parallel to front pillars of entrance to City Hall – see pictures 5 and 6	91000	00000	0,00	/
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	100757	9757	889,65	/
LAP 1 marathon				
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	00000	00000	0,00	/
B' – far end of pedestrian crossing in Dr. Sime Miloševića street before left turn to Dr. Ilije Đuričića street (lap 1) – see picture 9	16838	16838	1535,30	/
B – near end of pedestrian crossing in Dr. Ilije Đuričića street just after right turn from Dr. Sime Miloševića street (joining lap 2) – provisional (see picture 9)	17455	17455	1591,56	/
C – at the end of green zone in the middle of Kej Žrtava racije street just after the pedestrian crossing – see picture 10	40858	40858	3725,47	/
D = turn 1 – 15,22 m before diagonal left from the end of metal fence at the entrance to Univerexport company on the right side on Bajče Žilinskog street – see pictures 12 and 13	48790	48704	4448,71	/

C – at the beginning of green zone in the middle of Kej Žrtava racije street just before the pedestrian crossing – see picture 10	56751	56751	5174,60	/
A' - traffic sign »Pedestrian crossing« before crossroad with Dunavska street – see pictures 7 and 8	62708	62708	5717,77	/
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	62976	62976	5742,20	/
LAP 2 marathon				
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	10000	00000	0,00	/
B' – far end of pedestrian crossing in Dr. Sime Miloševića street before left turn to Dr. Ilije Đuričića street – see picture 9	26838	16838	1535,30	/
H = turn 2 at far end of drain cover edge in the middle of crossroads between Bulevar Despota Stevana and 1300 kaplara street – see pictures 15 and 16	51205	41205	3757,10	
B – near end of pedestrian crossing in Dr. Ilije Đuričića street just after right turn from Dr. Sime Miloševića street (joining lap 1) – provisional - see picture 9	75507	65507	5972,98	
C – at the end of green zone in the middle of Kej Žrtava racije street just after the pedestrian crossing – see picture 10	98910	88910	8106,89	
A' - traffic sign »Pedestrian crossing« before crossroad with Dunavska street – see pictures 7 and 8	104897	94867	8650,06	
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	105135	95135	8674,49	

RECAPITULATION OF MEASUREMENT

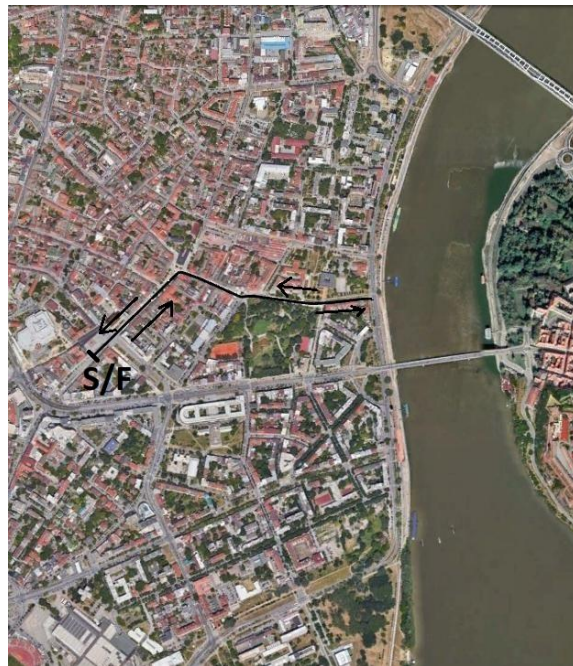
I. marathon

desired length of the course: 42.195,00 m

measured course: $(\text{LAP } 0 \times 2) + (\text{LAP } 1) + (\text{LAP } 2 \times 4) - (A' - A) = 1779,30 \text{ m} + 5742,20 \text{ m} + 34697,96 \text{ m} - 24,43 \text{ m} = \mathbf{42.195,03 \text{ m (correct distance!!)}}$

see below

LAP 0



LAP 1



LAP 2



MEASUREMENT DATA 2 (halfmarathon)

Measured point	Counter reading	Cumulative counts	Cumulative distance in m	Adjustment in m
LAP 0				
S/F 3,14m before near edge of drain cover on Freedom Square (Trg Slobode) – see picture 6), parallel to front pillars of entrance to City Hall – see pictures 5 and 6	91000	00000	0,00	/
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	100757	9757	889,65	/
LAP 1 halfmarathon				
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	00000	00000	0,00	/
B' – far end of pedestrian crossing in Dr. Sime Miloševića street before left turn to Dr. Ilije Đuričića street (lap 1) – see picture 9	16838	16838	1535,30	/
B – near end of pedestrian crossing in Dr. Ilije Đuričića street just after right turn from Dr. Sime Miloševića street (joining small lap) – provisional - see picture 9	17455	17455	1591,56	/

C – at the end of green zone in the middle of Kej Žrtava racije street just after the pedestrian crossing – see picture 10	40858	40858	3725,47	/
A' - traffic sign »Pedestrian crossing« before crossroad with Dunavska street – see pictures 7 and 8	46815	46815	4268,63	/
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	47083	47083	4293,07	/
LAP 2 halfmarathon				
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	10000	00000	0,00	/
B' – far end of pedestrian crossing in Dr. Sime Miloševića street before left turn to Dr. Ilije Đuričića street – see picture 9	26838	16838	1535,30	/
G = turn 2 on Bulevar Despota Stevana app. 60m after crossroads with Šekspirova street, 5,58m before diagonal left from 1st light pole after crossroad on the right – see pictures 17 to 19	44948	34948	3186,59	
B – near end of pedestrian crossing in Dr. Ilije Đuričića street just after right turn from Dr. Sime Miloševića street (joining lap 1) – provisional - see picture 9	62898	52898	4823,28	
C – at the end of green zone in the middle of Kej Žrtava racije street just after the pedestrian crossing – see picture 10	86301	76301	6957,19	
A' - traffic sign »Pedestrian crossing« before crossroad with Dunavska street – see pictures 7 and 8	92258	82258	7500,36	
A – traffic sign »Parking place« on right side just after Dunavska street turns right to Kej žrtava racije along the Danube river – see pictures 7 and 8	92526	82526	7524,79	

RECAPITULATION OF MEASUREMENT

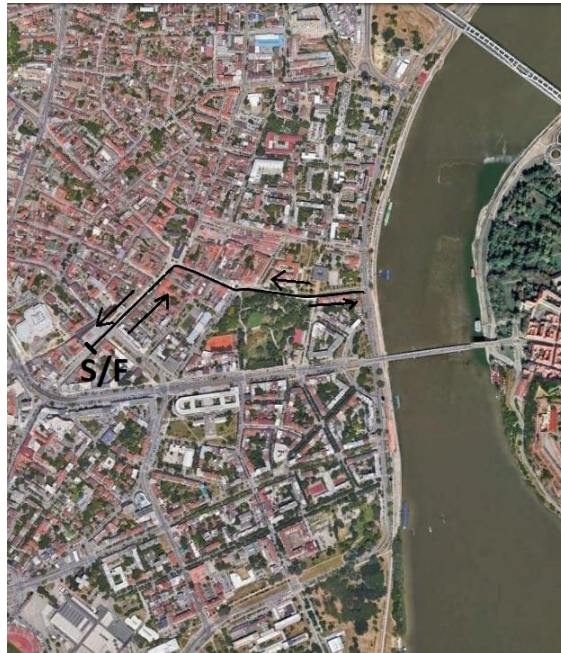
II. halfmarathon

desired length of the course: 21.097,50 m

measured course: $(\text{LAP } 0 \times 2) + (\text{LAP } 1) + (\text{LAP } 2 \times 2) - (A' - A) = 1779,30 \text{ m} + 4293,07 \text{ m} + 15049,58 \text{ m} - 24,43 \text{ m} = \mathbf{21.097,52 \text{ m (correct distance!!)}}$

see below

LAP 0



LAP 1



LAP 2



MEASUREMENT DATA 3 (10km)

Measured point	Counter reading	Cumulative counts	Cumulative distance in m	Adjustment in m
LAP 0				
S/F – on Miloša Bajića street parallel to traffic sign No parking just in front of entrance to the last building No. 13 on the left side - see pictures 20 and 21	62000	00000	0,00	/
A – provisional point just after Miloša Bajića street turns right to Beogradski Kej along the Danube river – see picture 22	42441	441	40,21	/
LAP 10km				
A – provisional point just after Miloša Bajića street turns right to Beogradski Kej along the Danube river – see picture 22	43000	00000	0,00	/
E = turn 1 – on Bulevar Cara Lazara, 15,5 m before start of green zone in the middle of a boulevard - see picture 23	56892	13892	1266,68	

F = turn 2 – on Bajče Žilinskog street, 8,48 m after 2nd light pole after entrance to Univerexport company on the right side - see pictures 24 to 26	84343	41343	3768,02	
A' – provisional just before turning right back to the finish line on Miloša Bajića street – see pictures 22	97518	54518	4951,04	
S/F – on Miloša Bajića street parallel to traffic sign No parking just in front of entrance to the first building No. 13 on the right side - see pictures 20 and 21	97717	54717	4989,14	
A' - provisional just before turning right back to the finish line on Miloša Bajića street – see pictures 22	25000	00000	0,00	/
A – provisional point just after Miloša Bajića street turns right to Beogradski Kej along the Danube river – see picture 22	25224	224	20,42	

RECAPITULATION OF MEASUREMENT

III. 10km

desired length of the course: 10.000,00 m

measured course: S – A + (whole lap A to A) + lap A – E – F – A') + A' to finish

= 40,21 m + 4971,46 m + 4951,04 m + 38,10 m = **10.000,81 m (correct distance!)**

see below

LAP 10 km



CALIBRATION COURSE START onwards – (picture 1)



CALIBRATION COURSE FINISH – (picture 2)



CALIBRATION COURSE FINISH side view – (picture 3)



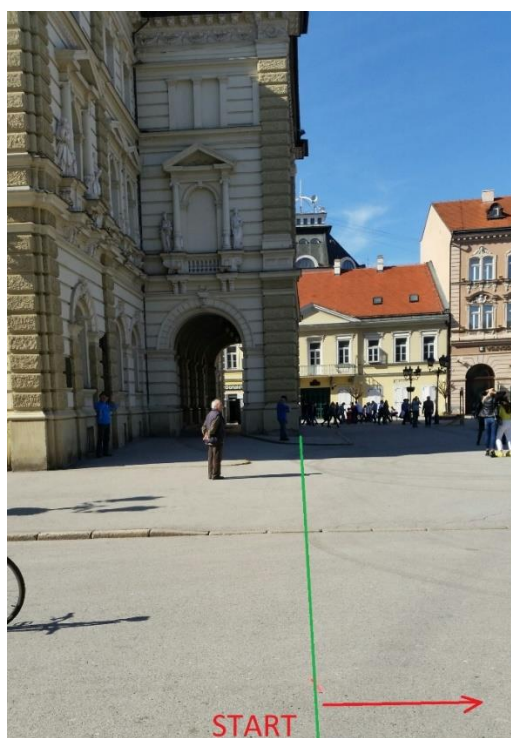
CALIBRATION COURSE FINISH backwards - (picture 4)



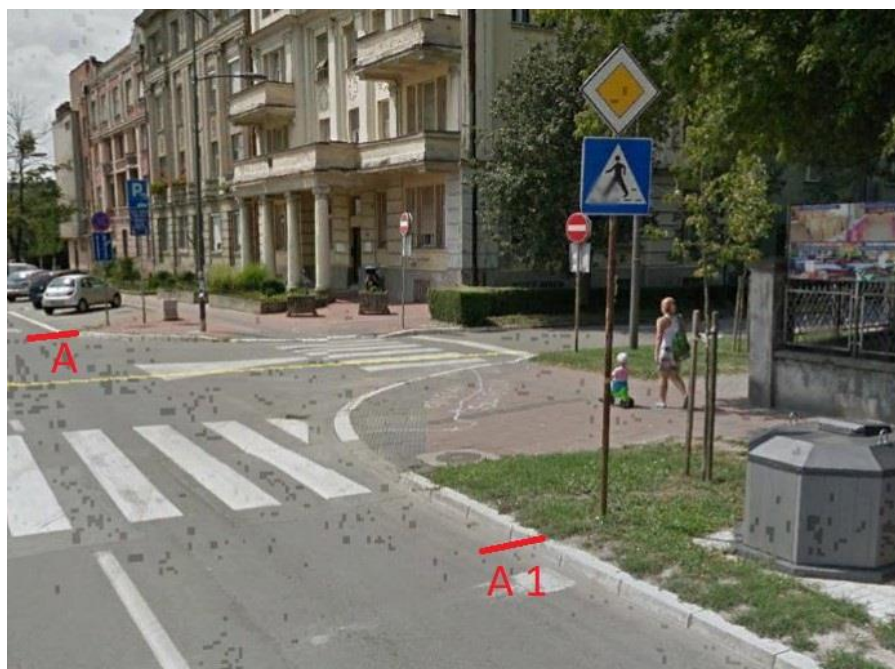
START/FINISH onwards – (picture 5)



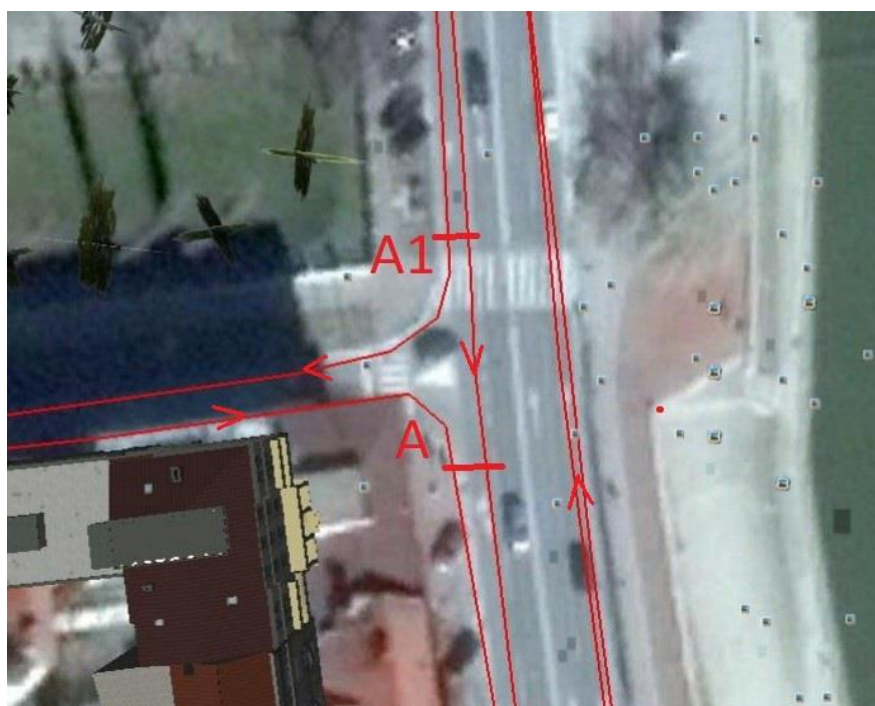
START/FINISH side view – (picture 6)



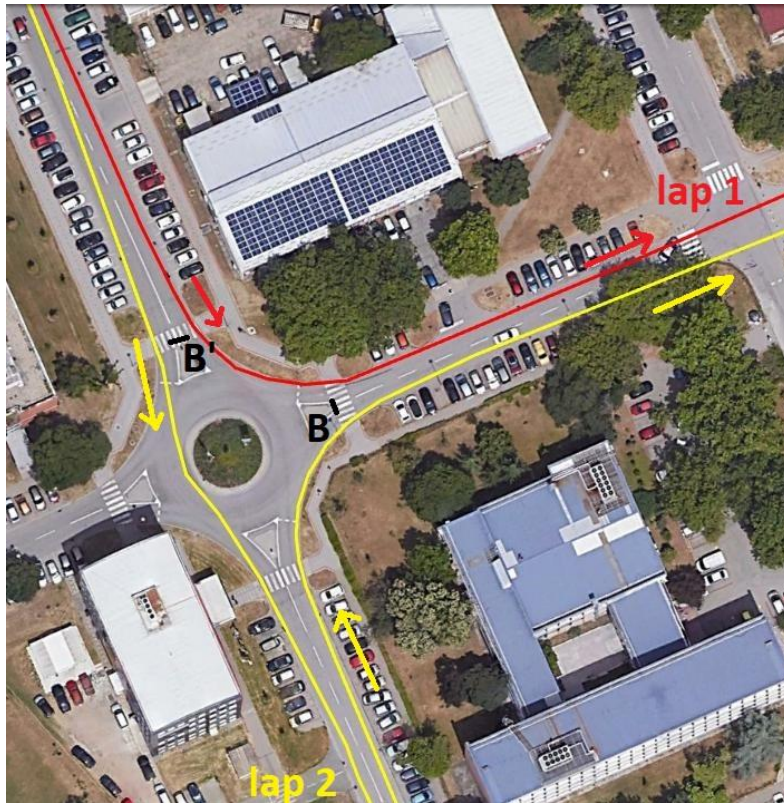
POINTS A AND A1 onwards – (picture 7)



POINTS A AND A1 aerial view – (picture 8)



POINTS B' and B – separation Lap 1 and Lap 2 – (picture 9)



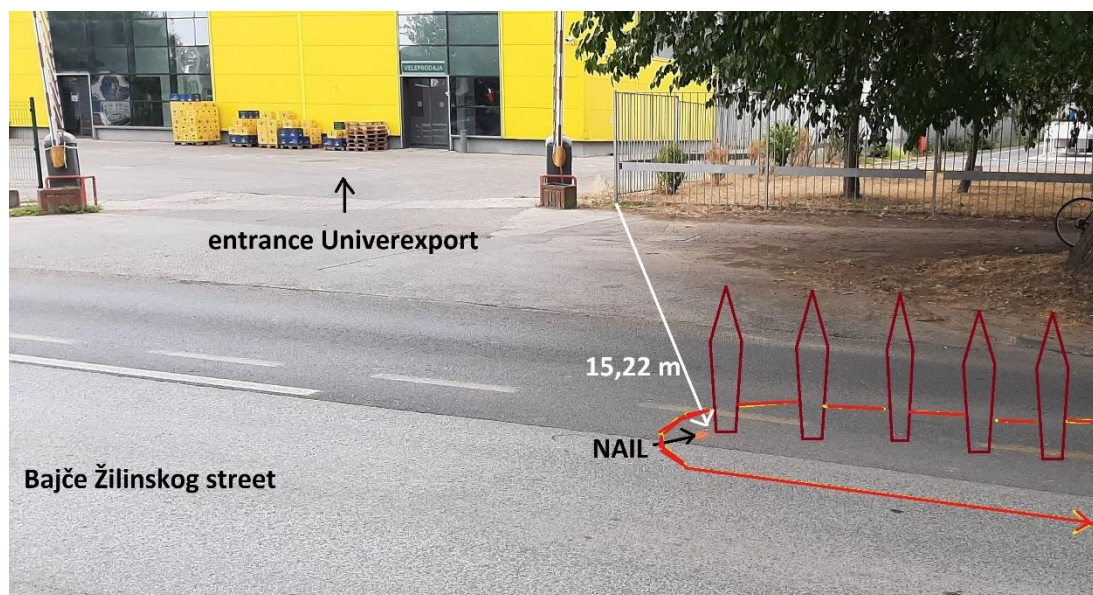
POINT C – (picture 10)



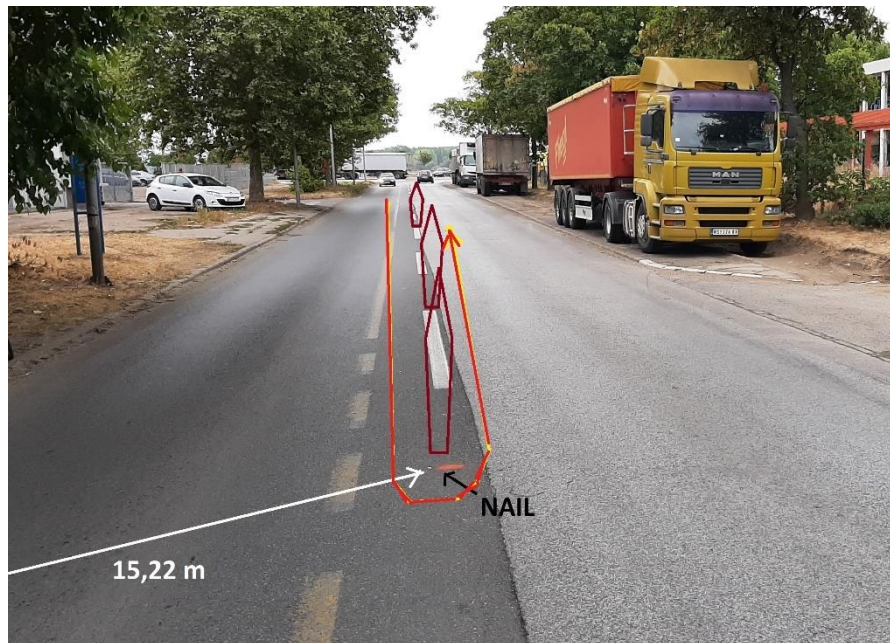
TOWARDS Turn 1 onwards – (picture 11)



POINT D side view = Turn 1 marathon Lap 1 – (picture 12)



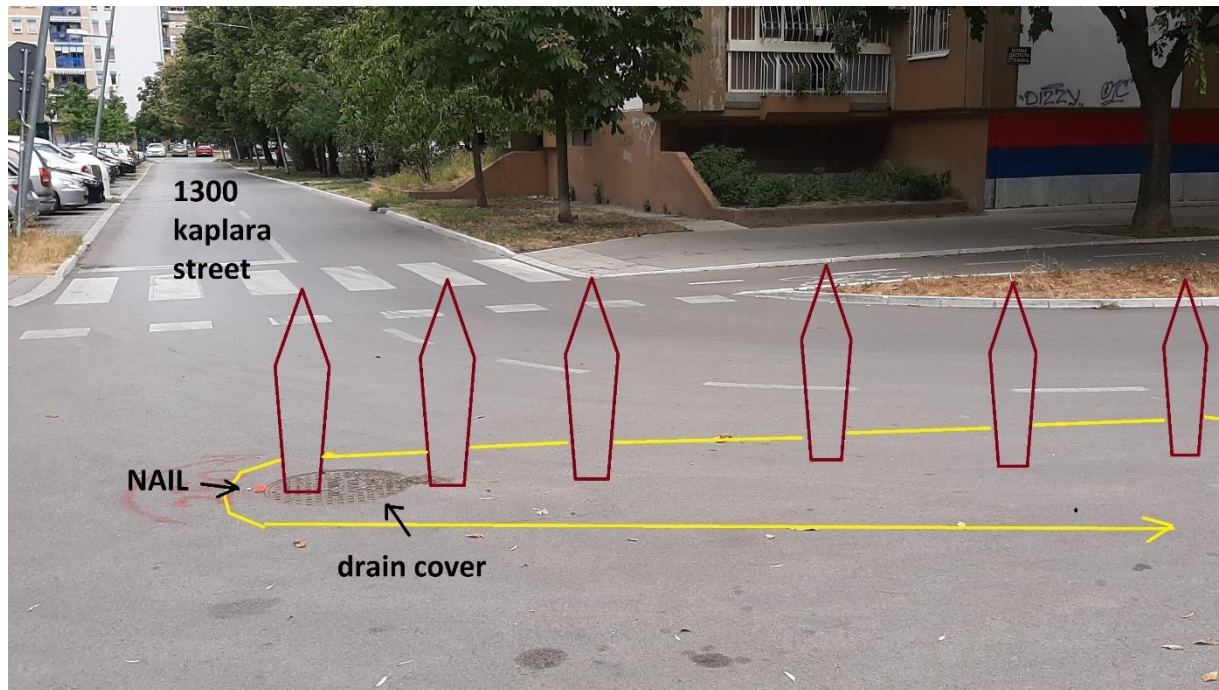
POINT D backwards = Turn 1 marathon Lap 1 – (picture 13)



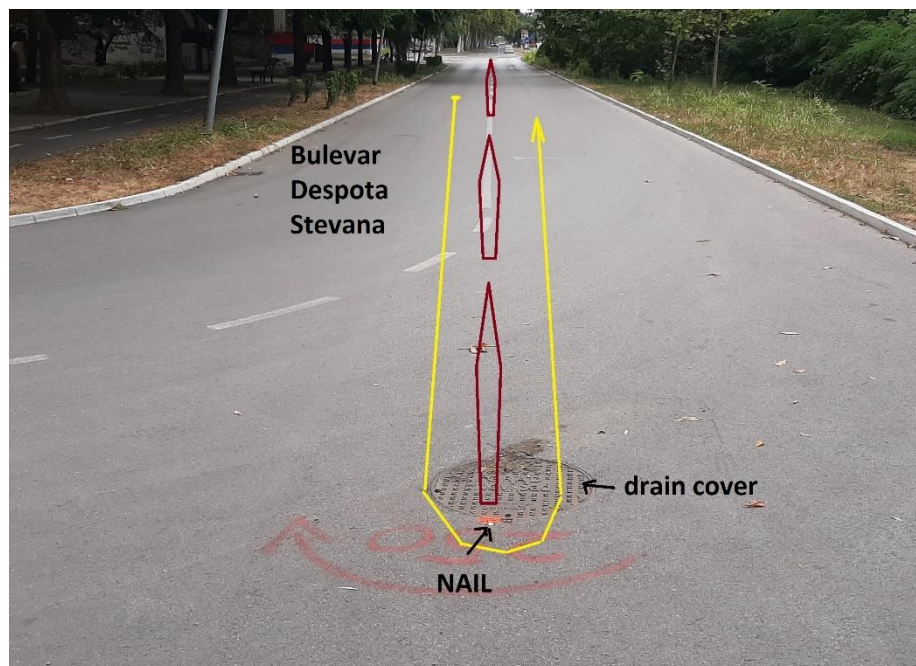
FROM Turn 1 onwards – (picture 14)



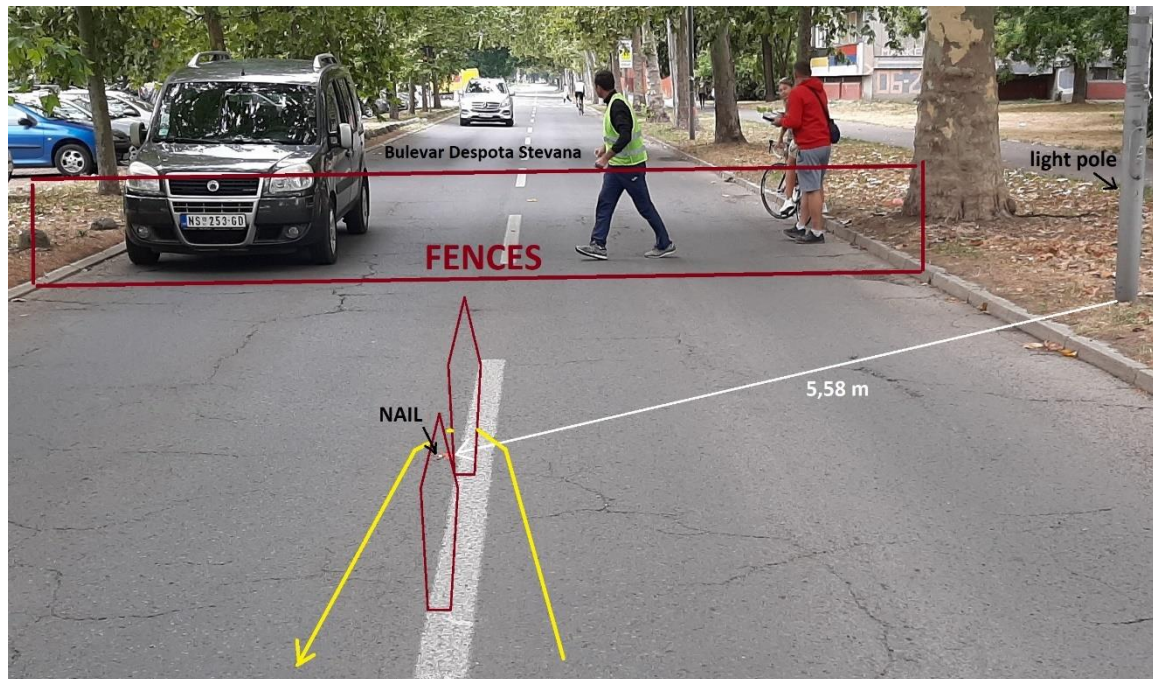
POINT H side view = Turn 2 marathon Lap 2 – (picture 15)



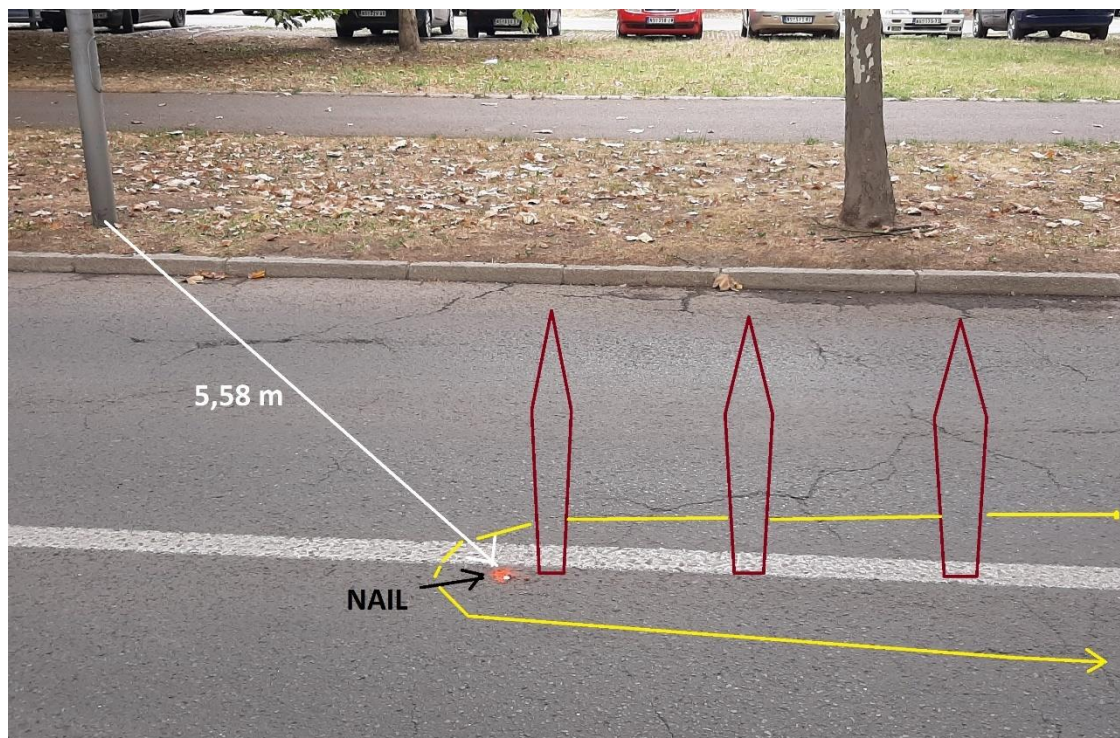
POINT H backwards = Turn 2 marathon Lap 2 – (picture 16)



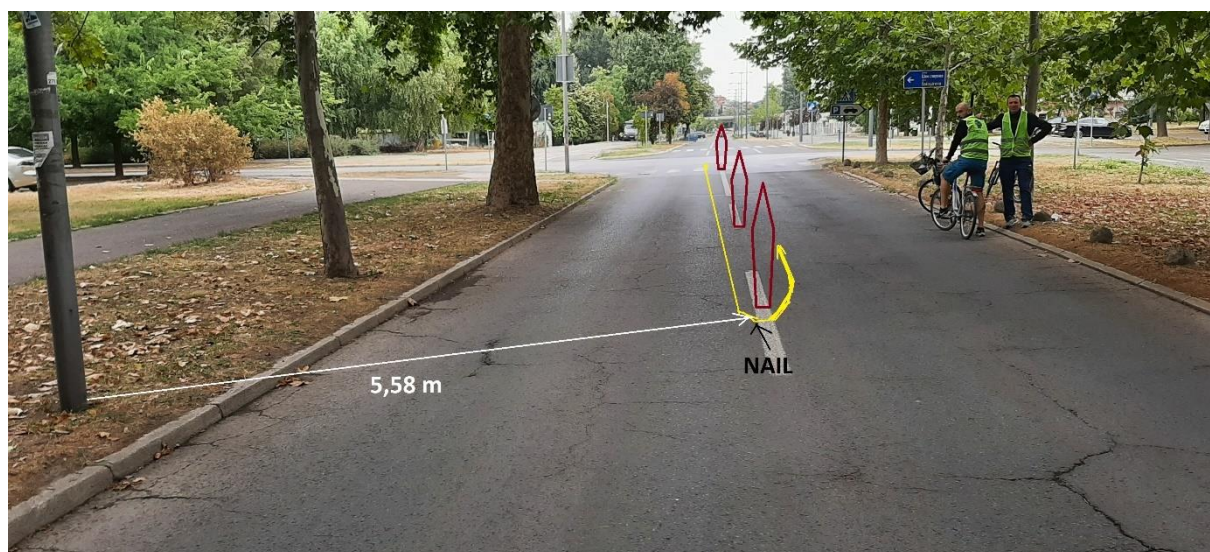
POINT G onwards = Turn 2 halfmarathon Lap 2 – (picture 17)



POINT G side view = Turn 2 halfmarathon Lap 2 – (picture 18)



POINT G backwards = Turn 2 halfmarathon Lap 2 – (picture 19)



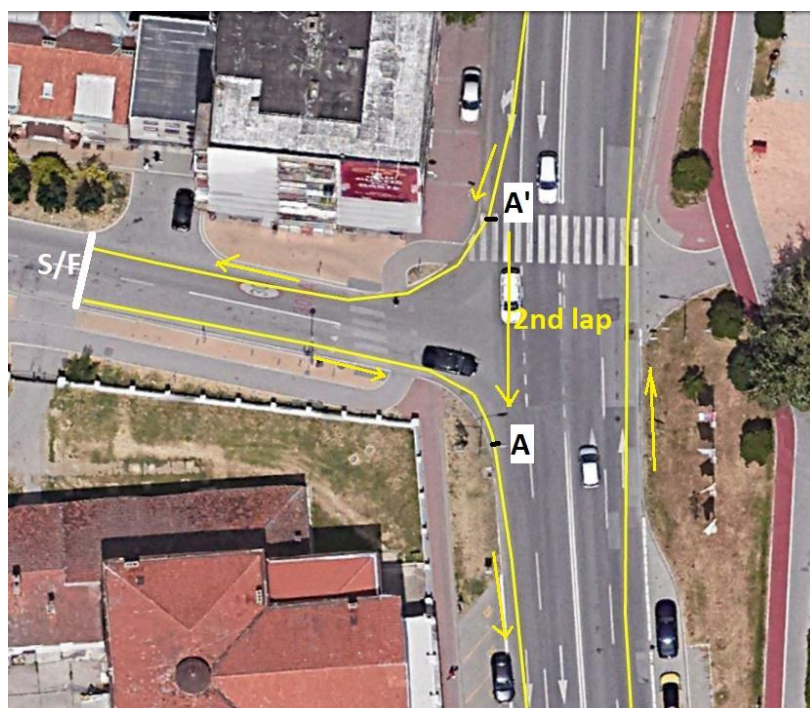
START 10 km – (picture 20)



FINISH 10 km – (picture 21)



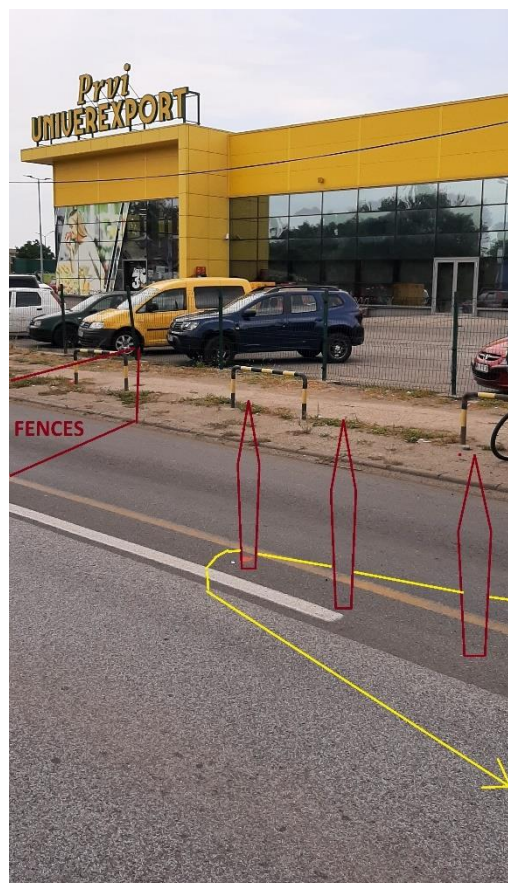
POINTS A and A' – (picture 22)



POINT E = Turn 1 10km side view – (picture 23)



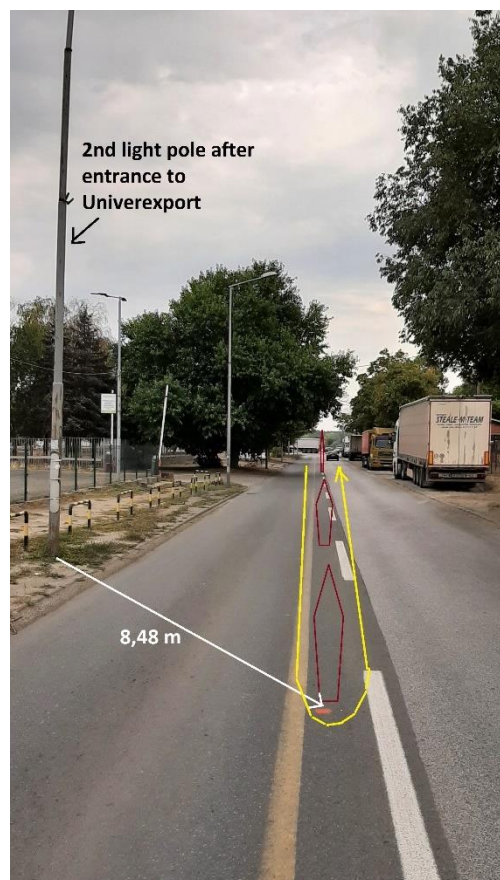
POINT F = Turn 2 10km side view I – (picture 24)



POINT F = Turn 2 10km side view II – (picture 25)



POINT F = Turn 2 10km side view II – (picture 26)



ELEVATION PROFILE Lap 1 marathon – (picture 27)



ELEVATION PROFILE Lap 2 marathon – (picture 28)



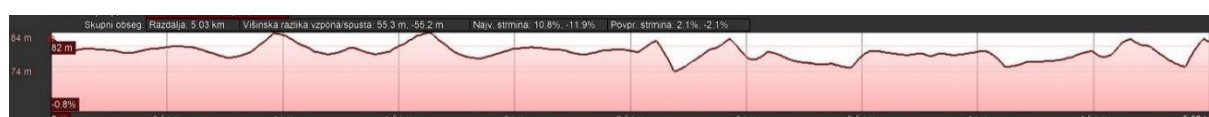
ELEVATION PROFILE Lap 1 halfmarathon – (picture 29)



ELEVATION PROFILE Lap 2 halfmarathon – (picture 30)



ELEVATION PROFILE 10km – (picture 31)



Maribor, 22nd August 2022

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