

COURSE MEASUREMENT REPORT

Arona 10 Km 2017

Arona, Italy

April 9th, 2017

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Paolo Ottone

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SUMMARY OF MEASUREMENT

- Date of Measurement:
07/04/2017
- How many measurements of the course were made?
*One measurement for the length of the entire course with intermediate stops at Km/Marks:
1SP1/A – SP1/B - FINISH*
- Name of measurers:
Paolo Ottone (ITA) - IAAF/AIMS Official Measurer grade "A"
- If the route at turns cannot be described as the "shortest possible route", explain what restrictions will apply, and how these will be enforced?
Streets not available for their entire width will be delimited by cones and barriers.
- Length of the course after adjustment:
10.000 m – Point To Point Course
- Difference between longest and shortest measurement: N/N
- Which measurement was used to establish the final course length and why?
My own measurement because was the only one made



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START: Arona, Piazza Del Popolo


Via Marconi
Largo Alpini
Largo Duca D'Aosta
P. le Aldo Moro
Corso Europa
Viale Del Porto

TURN

Corso Europa
P. le Aldo Moro
Largo Duca D'Aosta
Largo Alpini
Via Marconi

FINISH: Arona, Piazza Del Popolo

COURSE MEASUREMENT DETAILS

COURSE MEASUREMENT DETAILS									
Date of Measurement:	07/04/2017								
Name/Location of the event:	Arona 10 Km - Arona, Italy								
Advertised Distance (m):	10.000			Race Date:	09/04/2017				
Race Director:	Andrea Ponti								
Address:	Via Paleocapa, 19 - 28041 Arona, Italy								
Phone:	+39.348.864.3436		Fax:			e-mail:	info@podisticaaron.it		
Measurer:	Paolo Ottone					IAAF/AIMS Grade:	A		
Phone:	+39.348.006.5427		Fax:	+39.0323.922.761		e-mail:	p.ottone@pro-motion.it		
Address:	Via Maurizio Muller, 37 - 28921 Verbania (VB) - Italy								
Start location:	Arona, Piazza Del Popolo				Finish location:	Arona, Piazza Del Popolo			
Type of terrain (flat, undulating, hilly):					100% Asphalt				
Type of course (laps, point to point, out/back):					Point To Point Course				
Altitude (mt. a.s.l.):	START:	198	FINISH:	198	Average m/km:	0,00			
Distance in straight line between Start and Finish:	0				% on race distance:	0,00%			
To be completed by the Area Administrator									
Date Registered:					Certificate N°:				
Administrator:					Signature:				
Paolo Ottone - AIMS/IAAF Grade "A" Measurer									
Date:	07/04/2017								
Signature:									

OVERVIEW MEASUREMENT PROCEDURE

After receiving the communication by the Italian Athletic Federation and AIMS/IAAF, appointing me as Official Measurer of this International race, I firstly requested the organizers to provide me by e-mail the Course Map in order to check that the new Course was measurable and find the strategy for the measurement.

I arrived in Arona on April 7th early morning and went immediately to check the Calibration Course I set-up in 2011; calibration course is located not far from START/FINISH line (cca 1.300m), in a wide straight road.

Marks/Nails from 2011 were still visible and in place but I had to refresh the paint.
The Calibration Course is a 400 m long stretch, is now marked with yellow paint, and nails.

We decided with the organizers to establish a fix START/FINISH point adding or subtracting the needed distance from the provisional TURN point.

We planned stops at provisional marks for SP1/A – SP1/B - FINISH.

I started the measurement accompanied by organizers by bicycles, as the course is almost 100% on a bike path so there was no need for police escort.

I specifically asked to the organizer to be at least 100 m ahead of me in order to see which was the “shortest route” possible in advance and therefore decide in time which way to measure accurately.


After the measurement, we found that the course was **92,03 m too short**.

We added this distance to the course by **adding 23,00 m** by moving the provisional TURN by **23,00 m**.

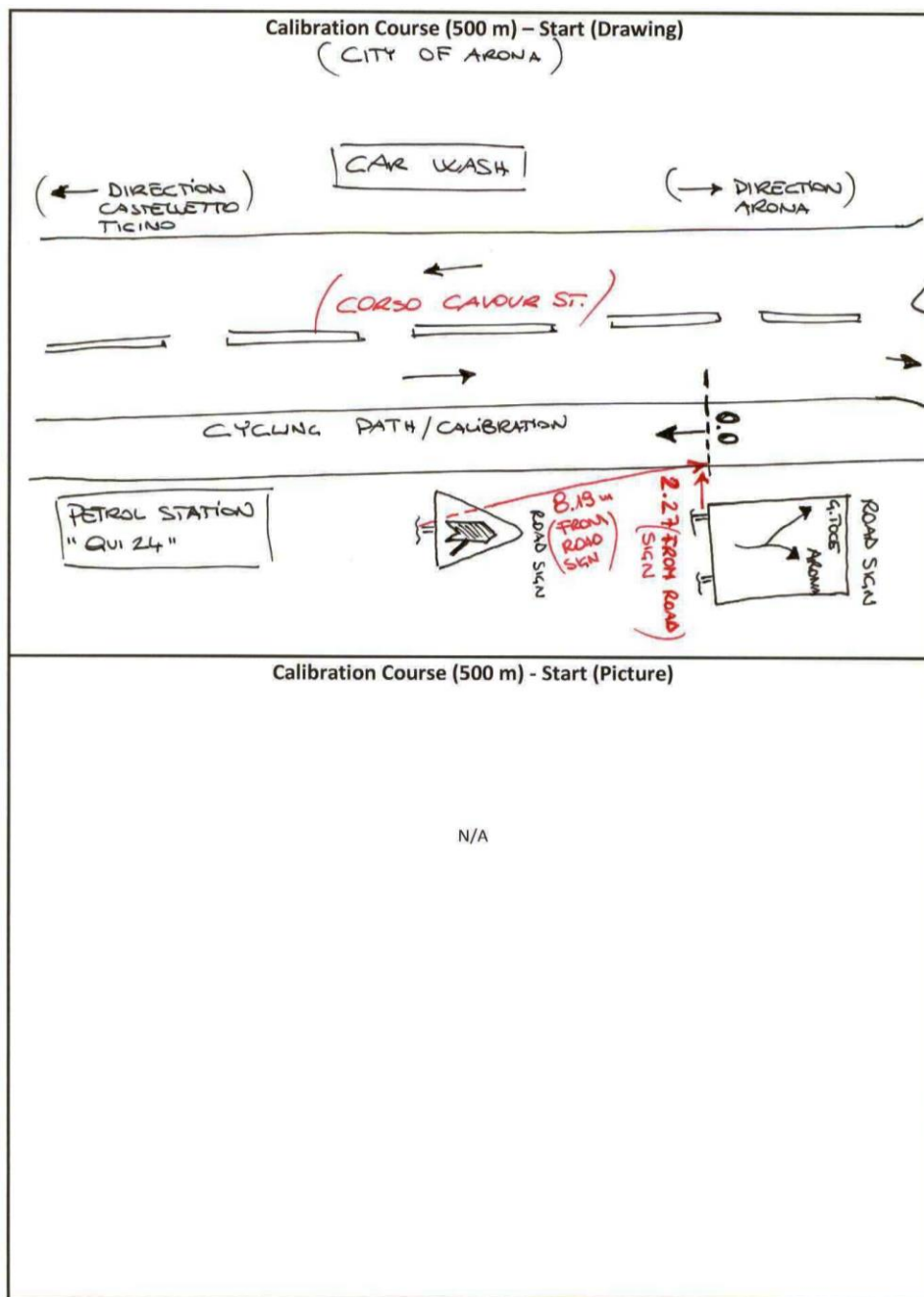
This because the course from SP1 make two laps over the only TURN inside the course.

TURN was set-up with radio of 1 m.

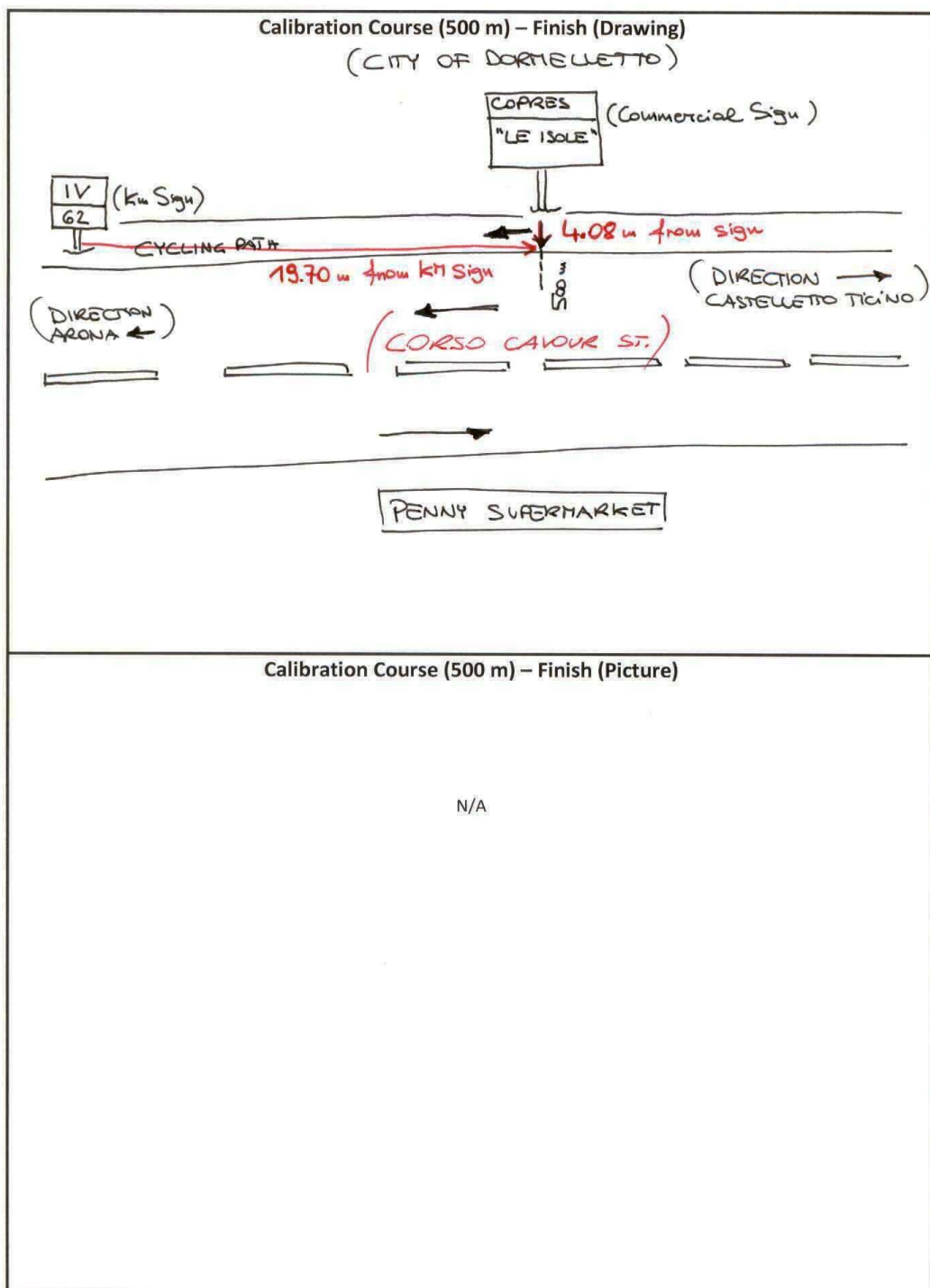
MEASUREMENT DATA SHEET

COURSE MEASUREMENT DATA SHEET					
NAME OF THE EVENT:		Arona 10 KM - 09/04/2017			
NAME OF MEASURER:		Paolo Ottone	AIMS/IAAF GRADE:		A
PRE-CALIBRATION		LENGTH OF CALIBRATION COURSE:		400	
DATE:	7/4/17	TIME:	8:30	TEMPERATURE:	20 C°
RIDE	START	FINISH	DIFFERENCE		
1	493400	497767	4367		
2	497767	502135	4368	AVERAGE:	4367,750
3	502135	506503	4368	COUNTS/KM:	10,919375
4	506503	510871	4368	WORKING CONSTANT:	10,930294
POST-CALIBRATION		LENGTH OF CALIBRATION COURSE:		400	
DATE:	7/4/17	TIME:	10:15	TEMPERATURE:	20 C°
RIDE	START	FINISH	DIFFERENCE		
1	631150	635518	4368	AVERAGE:	4367,750
2	635518	639885	4367	COUNTS/KM:	10,919375
3	639885	644253	4368	WORKING CONSTANT	10,930294
4	644253	648621	4368	CONSTANT OF THE DAY	10,93029438
MEASURED POINTS		READING	COUNTS	LENGTH	CUMULATIVE
START		513200	514682	0,000	0,000
SP1/A		514682	1482	135,586	135,586
SP1/B		567334	52652	4.817,071	4.952,657
SP1/A + SP/B (2nd LAP)				4.817,071	9.769,728
FINISH		568845	1511	138,240	9.907,968
Final Calculation				Measured Distance	9.907,97
				Desired Distance	10.000,00
Total Measured Distance					-92,03
Adjustment:		The race distance, after the final calculation, is 92,03m too short. The extra distance was add by moving forward the provisional TURN by 23,00m. Because the TURN will be run 2X times.			
Paolo Ottone - AIMS/IAAF Grade "A" Measurer					
Date:		07/04/2017			
Signature:					

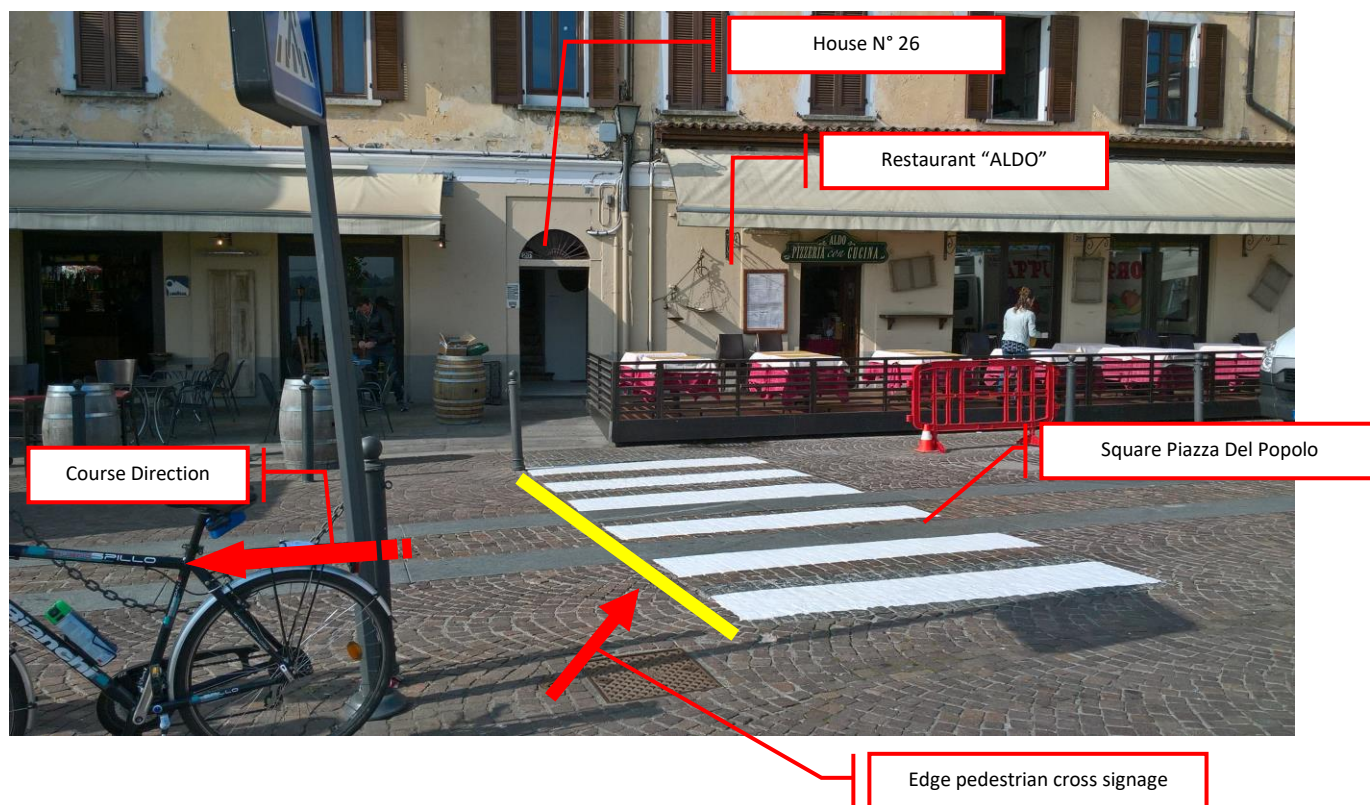
CALIBRATION COURSE - START

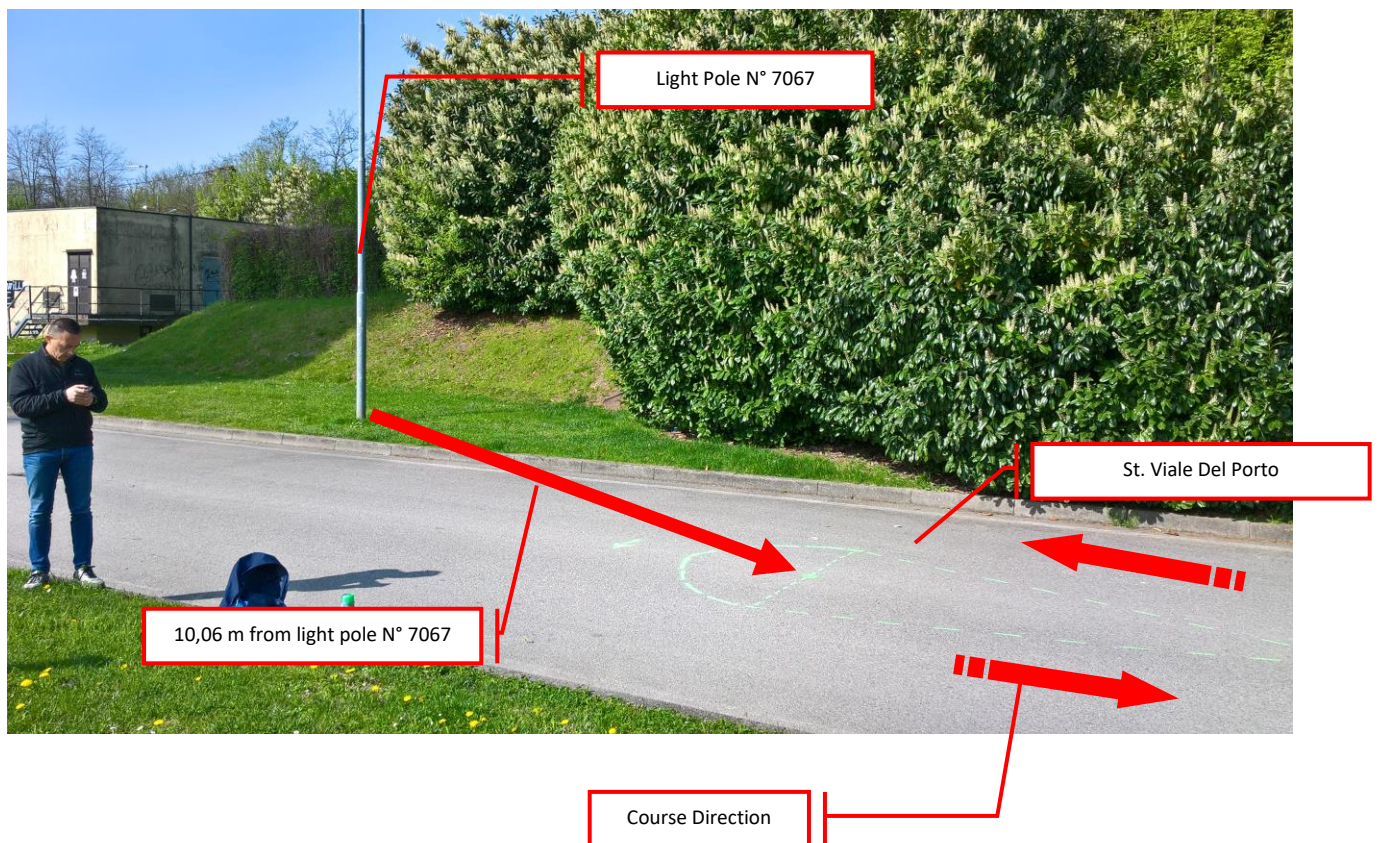


Marked with nail and white paint.



Marked with nail and white paint.







ROAD RACE

Course Measurement Certificate

Name of Race/Location/Country	Arona 10 Km 2017 – Arona, Italy
Date of Race	09/04/2017
Distance of Race	10.000 m
Measured Distance	10.000 m
Date Measurement	07/04/2017
Altitude Start (m a.s.l.)	198 m
Altitude Finish (m a.s.l.)	198 m
Percentage m/Km	0,00m/Km
Separation straight line Start/Finish	0 m = 0,00 % of race official distance
Race Category	CAT "A" – Criteria Requested Fulfilled
Type of Course	Totally Flat – Point To Point Course - 100% Asphalted
Local Measurer	-
Address	-
Method of Measuring	Bicycle with Jones Counter (6 digits)
AIMS/IAAF Approved Course Measurer	Paolo Ottone – Grade "A"
Adress	St. Maurizio Muller, 37 – 28921 Verbania (VB) - Italy

This is to certify that the course above, defined by the attached documentation, has been measured and approved for certification. The course measurement complies with AIMS/IAAF Rules for Road Race Course Measurement and the measured distance is not less than the official advertised distance for the event.

ATTENTION! The Area Administrator will issue the final Official Measurement Certificate once this protocol will be accepted and approved.

Verbania, 07/04/2017

Paolo Ottone
AIMS/IAAF Official International Measurer – Grade "A"