



Road Running Technical Council  
USA Track & Field

Measurement Certificate

recognized by



Name of the course 2017 Tustin Hanger Half Marathon Distance 21.0975 km

Location (state) California (city) Tustin

Type of course: road race  calibration course  track

Measuring Methods: bicycle  steel tape  electronic distance meter

Measured by (name, address, phone & email) Brandon Hough 719.210.4425  
2058 N. Mills #454 Claremont, CA 91711 brandon@spectrumsports.net

Race contact (name, address, phone & email) Jonathan Pauley 949.975.1812  
22600-C Lambert St. Lake Forest, CA 92630 jonathan@renegaderaceseries.com

Date(s) when course measured: January 27, 2017

Number of measurements of entire course: 2 Course Configuration: Several out backs

Elevation (meters above sea level) Start 15.2 m Finish 15.2 Highest 38.7 Lowest 14

Straight line distance between start & finish 0 Drop 0 m/km Separation 0 %

Type of surface: paved 99 % dirt      % gravel 1 % grass      % track      %

Effective date of certification: February 21, 2017 Certification code: CA17020RS

Notice to Race Director: Use this Certification Code in all public announcements relating to your race.

Be It Officially Noted That

Based on examination of data provided by the above named measurer, the course described above and in the map attached is hereby certified as reasonably accurate in measurement according to the standards adopted by the Road Running Technical Council. If any changes are made to the course, this certification becomes void, and the course must then be recertified.

Verification of Course — In the event a National Open Record is set on this course, or at the discretion of USA Track & Field, a verification remeasurement may be required to be performed by a member of the Road Running Technical Council. If such a remeasurement shows the course to be short, then all pending records will be rejected and the course certification will be cancelled.

This certification expires on December 31 in the year 2027

AS NATIONALLY CERTIFIED BY:

*Ron Scardera*

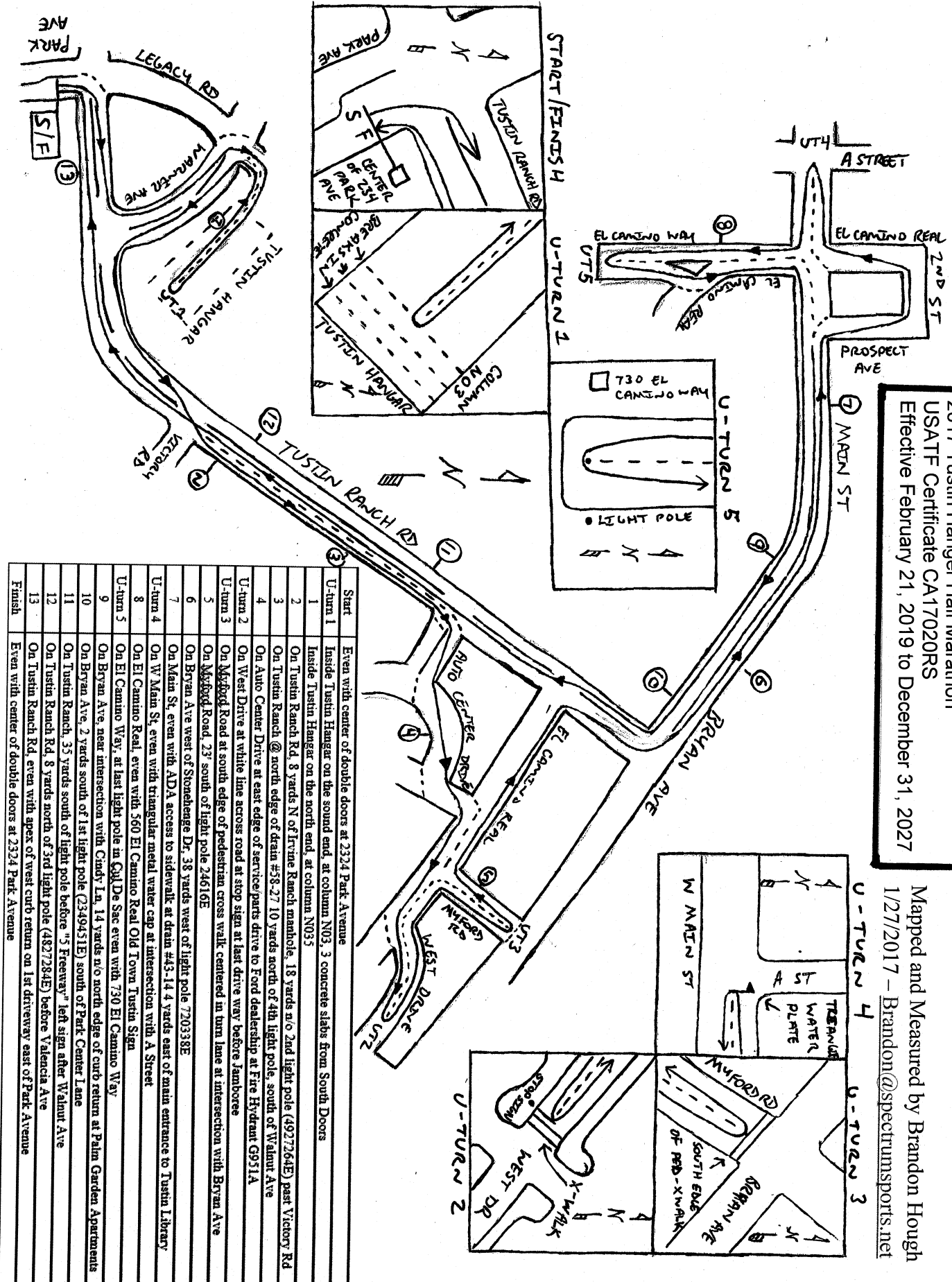
Date: February 22, 2017

Ron Scardera — USATF/RRTC Certifier

5660 Valley Oak Drive, Los Angeles, CA 90068 - 323.896.7750 - rscar@pacbell.net

2017 Tustin Hanger Half Marathon  
 USATF Certificate CA17020RS  
 Effective February 21, 2019 to December 31, 2027

Mapped and Measured by Brandon Hough  
 1/27/2017 - [Brandon@spectrumsports.net](mailto:Brandon@spectrumsports.net)



Start	Even with center of double doors at 2324 Park Avenue
U-turn 1	Inside Tustin Hanger on the south end, at column N03, 3 concrete slabs from South Doors
1	On Tustin Hanger on the north end, at column N035
2	On Tustin Ranch Rd, 8 yards N of Irvine Ranch manhole, 18 yards n/o 2nd light pole (4927264E) past Victory Rd
3	On Tustin Ranch @ north edge of drain #58-27 10 yards north of 4th light pole, south of Walnut Ave
4	On Auto Center Drive at east edge of service/parts drive to Ford dealership at Fire Hydrant G951A
U-turn 2	On West Drive at white line across road at stop sign at last drive way before Jamboree
U-turn 3	On Myford Road at south edge of pedestrian cross walk centered in turn lane at intersection with Bryan Ave
5	On Myford Road, 23' south of light pole 24616E
6	On Bryan Ave west of Stonehenge Dr, 38 yards west of light pole 720338E
7	On Main St, even with ADA access to sidewalk at drain #43-14 4 yards east of main entrance to Tustin Library
U-turn 4	On W Main St, even with triangular metal water cap at intersection with A Street
8	On El Camino Real, even with 560 El Camino Real Old Town Tustin Sign
U-turn 5	On El Camino Way, near intersection with Cal De Sac even with 730 El Camino Way
9	On Bryan Ave, near intersection with Candy Ln, 14 yards n/o north edge of curb return at Palm Garden Apartments
10	On Bryan Ave, 2 yards south of 1st light pole (2349451E) south of Park Center Lane
11	On Tustin Ranch, 35 yards south of light pole before "5 Freeway" left sign after Walnut Ave
12	On Tustin Ranch Rd, 8 yards north of 3rd light pole (4827284E) before Valencia Ave
13	On Tustin Ranch Rd, even with apex of west curb return on 1st driveway east of Park Avenue
Finish	Even with center of double doors at 2324 Park Avenue