



Road Running Technical Council USA Track & Field Measurement Certificate



Name of the course Norfolk Freedom Half-marathon Distance 21.0975 km

Location (state) Virginia (city) Norfolk

Type of course: road race calibration track Configuration: Loop

Type of surface: paved 100 % dirt _____ % gravel _____ % grass _____ % track _____ %

Elevation (feet above sea level) Start 50' Finish 56' Highest 112' Lowest -7'

Straight line distance between start & finish 356 m Drop -0.1 m/km Separation 1.7 %

Measured by (name, address, phone & e-mail) Vic Culp PO Box 8241 Fredricksburg, VA 22404
540-310-4803 vic@farc.org

Race contact (name, address & phone) Manny Cordero PO Box 3843 Norfolk, VA 23514
904-673-2316 voiprouter@aol.com

Measuring Methods: bicycle steel tape electronic distance meter

Number of measurements of entire course: 2 Date(s) when course measured: July 17 & 18, 2010

Race date: Nov. 13, 2011 Course certification effective date: 8/8/2010 - 12/31/2020

Replaces: _____ (if applicable) Certification code: VA10002DCR

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.

Validation of Course — In the event a National Open Record is set on this course, or at the discretion of USA Track & Field, a validation 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 **2019**

AS NATIONALLY CERTIFIED BY:

Duane Russell

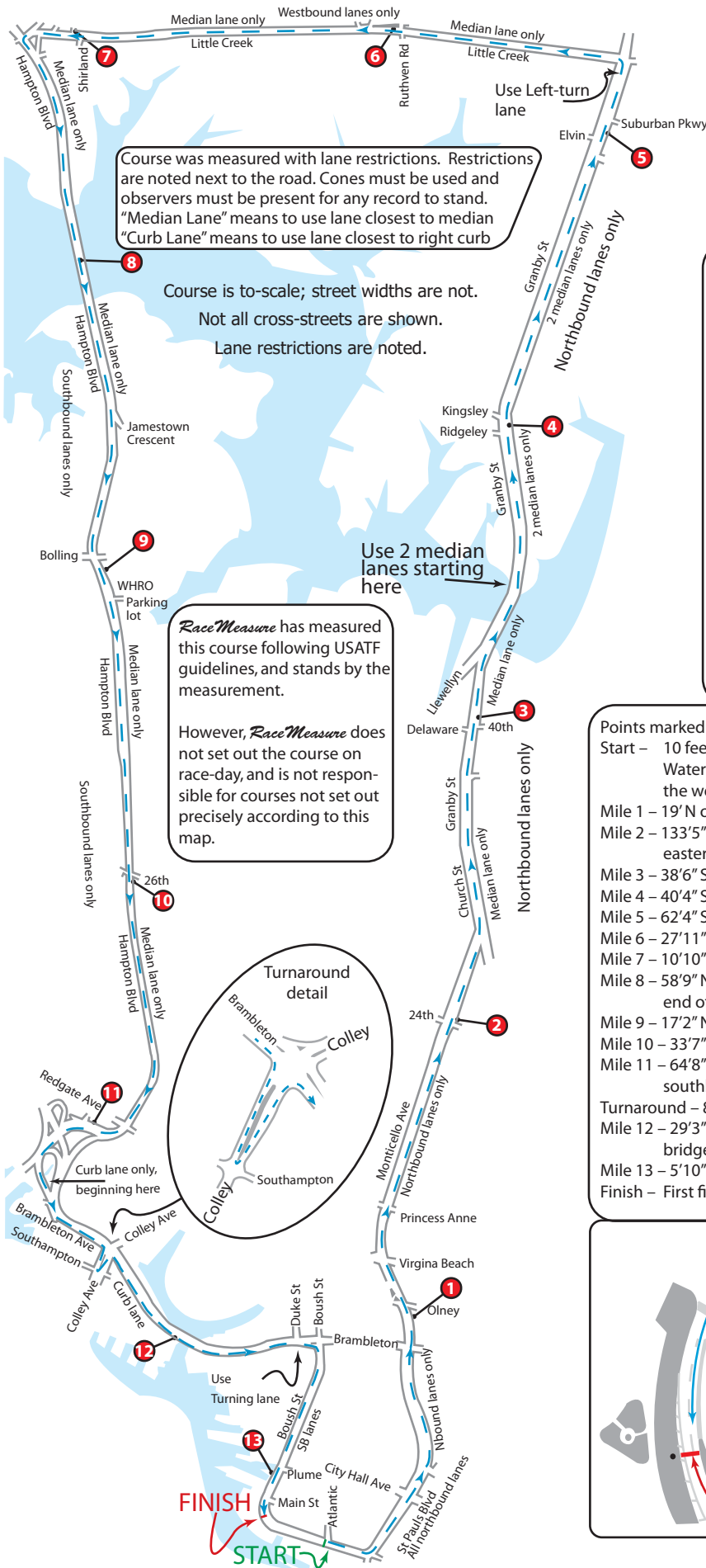
Date: Aug. 15, 2010

Duane Russell – USATF/RRTC Certifier
1484 E Easter Cir, Centennial, CO 80122 720-935-9826 duane@RaceMeasure.com

Norfolk Freedom Half-Marathon

Norfolk, VA

USATF Certificate VA10002DCR
Effective 8/8/10 - 12/31/2020



GPS Coordinates are given only to assist in finding locations. NOT to be used to replace lost marks. NAD 83

Start:	N36.84483°	W76.29042°
1 mile:	N36.85555°	W76.28544°
2 mile:	N36.86909°	W76.28314°
3 mile:	N36.88341°	W76.28152°
4 mile:	N36.89757°	W76.27956°
5 mile:	N36.91132°	W76.27393°
6 mile:	N36.91625°	W76.28630°
7 mile:	N36.91597°	W76.30441°
8 mile:	N36.90469°	W76.30483°
9 mile:	N36.89017°	W76.30339°
10 mile:	N36.87622°	W76.30200°
11 mile:	N36.86446°	W76.30472°
TA:	N36.85758°	W76.30373°
12 mile:	N36.85501°	W76.30002°
13 mile:	N36.84772°	W76.29351°
Finish:	N36.84620°	W76.29393°

- Points marked with nail/washer and paint, and on nearest curb to runner.
- Start – 10 feet W of light pole holding the traffic lights over westbound lanes of Waterside at Atlantic. This is the western edge of the brick side walk on the west side of Atlantic that crosses Waterside.
- Mile 1 – 19' N of pole NO517 DA46 on St Paul's just south of Olney.
- Mile 2 – 133'5" S of the north end of the railroad underpass handrails on the eastern side of Monticello
- Mile 3 – 38'6" S of Pole NO518 FG72 just north of 40th on Granby
- Mile 4 – 40'4" S of Pole NO519 GB93 just south of Kingsley on Granby
- Mile 5 – 62'4" S of Pole NO519 JI40 just north of Elvin on Granby
- Mile 6 – 27'11" W of Pole NO519 CO97 just west of Ruthven on Little Creek
- Mile 7 – 10'10" W of Pole V803 just west of North Shirland on Little Creek
- Mile 8 – 58'9" N of Pole NQ419 on Bridge which is the sixth pole from the south end of the bridge on the western side of Hampton
- Mile 9 – 17'2" N of Pole NO418 RL10 which is just south of Bolling on Hampton
- Mile 10 – 33'7" S of Pole NO418 SA18 which is just south of 26th on Hampton
- Mile 11 – 64'8" S of last "Crossing Double White Line Prohibited" sign in southbound Hampton
- Turnaround – 8' S of island tip on Colley at Southhampton
- Mile 12 – 29'3" E of Pole NO417 TA52 which is just west western edge of inlet bridge on Brambleton
- Mile 13 – 5'10" S of drain cap at the entrance to Nautics on Bouch
- Finish – First fire hydrant S of Main on Waterside

