



**Road Running Technical Council
USA Track & Field
Measurement Certificate**



Name of the course Armed Services Half Marathon Distance 21.0975 km
Location (state) MI (city) Grand Haven
Type of course: Road Race
Measuring Methods: Bicycle
Measured By Ron Knoll, 17635 Connie Dr., Spring Lake, MI, 49456, 616-843-1808, rnknoll@gmail.com
Race Contact Ron Knoll, 17635 Connie Dr., Spring Lake, MI, 49456, 616-843-1808, rnknoll@gmail.com
Date(s) when course measured: 05/12/2022
Number of measurements of entire course: 2 Course Configuration: Keyhole
Elevation (meters above sea level) Start 187.00 Finish 187.00 Lowest 180.00 Highest 208.00
Straight line distance between start and finish 0.00m Drop 0.00 m/km Separation 0.00 %
Type of surface: Paved 99 % Dirt 0 % Gravel 0 % Grass 0 % Track 1 %
Effective date of certification: May 20, 2022 Certification code: MI22026MN

Note 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 the course, or at the discretion of USA Track & Field, a verification measurement 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 of the year: **2032**

AS NATIONALLY CERTIFIED BY:

Date: June 29, 2022

Mark Neal - USATF/RRTC Certifier - 323 Griggs Street, Rochester MI 48307
(248) 894-3846 - runnermark@gmail.com

ARMED SERVICES HALF MARATHON, 2022 GRAND HAVEN, MICHIGAN, USA

Measured by Ron Knoll: mknoll@gmail.com, May 12, 2022
 Unless otherwise noted, runners can use the entire width of all roads in order to follow the shortest possible route. This course was measured using the full width of the road and the shortest possible route. Both the start and finish are on the inside lane of the track at the high school 50 yard line on the home team side. See supplemental page for the specific start/finish area. Runners will run from the track, exit the stadium to the road alongside the East side of the high school parking lot, continuing to the Ferris St bike path. Runners will turn right (West) on the bike path, continuing to Greenleaf Ln. Turn right (North) of Greenleaf, continue North as it curves left (West) connecting to the bike path alongside Lakeshore Dr. Turn left (South) and run out and back on the bike path. See supplemental map page as it relates to the high school property.

Start: Inside Lane of track at 50 yard line on the home team side of the football stadium

- Mile 1: 33 ft South of mailbox 13327 Greenleaf
- Mile 2: Even w/ South edge of 12990 Lakeshore driveway
- Mile 3: 33 ft South of mailboxes at 12296 Lakeshore
- Mile 4: 50 ft North of North edge of 11446 Lakeshore driveway
- Mile 5: 10 ft South of North facing yellow sharp left turn sign alongside the boardwalk over the creek on lakeshore
- Mile 6: 60 ft South of North end of sand berm
- Turnaround: 7 ft 2 inches North of North edge of 9880 Lakeshore driveway and/or 37 ft North of the telephone pole just South of the same driveway
- Mile 7: 60 ft South of guardrail prior to boardwalk over the creek on Lakeshore
- Mile 8: 4 ft North of Ameritech post #11300 on Lakeshore
- Mile 9: Even w/ North edge of 12150 Lakeshore driveway
- Mile 10: 20 ft North of North edge
- Mile 11: 30 ft North of North edge of driveway at 13389 Greenleaf
- Mile 12: 120 ft North of tennis court service road
- Mile 13: Even w/ 50 yard line on inside lane of track on visiting team side of football stadium



Finish: Inside lane of track at 50 yard line on home team side of football stadium

A/S Denotes Aid Station

