



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

**Measurement Certificate**

recognized by



Name of the course Bird in Hand Half Marathon Distance 21.0975 km

Location (state) PA (city) Bird in Hand

Type of course: Road Race

Measuring Methods: Bicycle

Measured By Marshall Pickard, 240 W. Lemon Street, Lancaster, PA 17603, marshall@2lraceservices.com, 610-301-5792

Race Contact Lowell Ladd, 1144 Cotswold Lane, West Chester, PA 484.319.1185

Date(s) when course measured: 06/01/2023

Number of measurements of entire course: 2 Course Configuration: Loop

Elevation (meters above sea level) Start 109.73 Finish 109.73 Lowest 101.80 Highest 144.78

Straight line distance between start and finish 396.24m Drop 0.00 m/km Separation 1.88 %

Type of surface: Paved 92 % Dirt 0 % Gravel 4 % Grass 4 % Track 0 %

Effective date of certification: June 4, 2023 Certification code: PA23008NP

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:*** **2033**

**AS NATIONALLY CERTIFIED BY:**

Date: June 14, 2023

Nathan Porch - USATF/RRTC Certifier - 1309 Park Ave, Ste 4R, Baltimore MD 21217  
(856) 803-7678 - Nathanporch@gmail.com



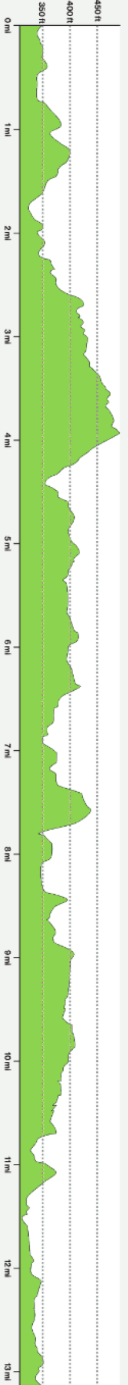
21.0975 km — 13.1094 mi

N 40° 2' 28.16610"  
W 76° 10' 27.989.60"

Bird in Hand, PA

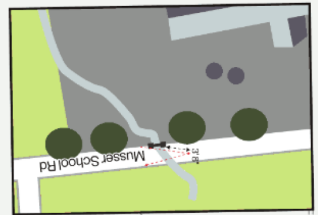


**ELEVATION**  
Start/Finish 360 ft  
Maximum 475ft | Minimum 334ft  
Elevation obtained from  
plotaroute.com/OpenStreetMap



**Start**  
N 40° 2' 28.16610" W 76° 10' 27.989.60"  
26 ft 10" (193') South of light pole S26 6  
Parallel to Utility Pole affixed with permanent  
Green Half Marathon Start & Blue 5K Start Signs  
South of 338 N Ronks Rd

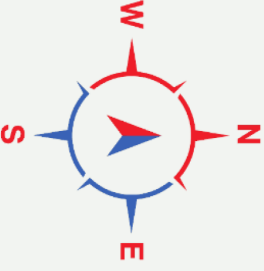
**Finish**  
N 40° 2' 25.25 71070"  
W 76° 10' 30.94420"  
Right into meadow just passed gate  
Finish 6 feet past 16th pole  
from street, in line with silo



**Turn Around**  
Musser School Rd  
N 40° 4' 40.37070"  
W 76° 7' 42480"  
3° 8' NE (63°) of Cement  
Curbing for Culvert  
Located before  
driveway of 622 Musser  
School Rd  
Marked by Blue Bird  
on edge of road (Both Sides)

Runners will cross onto  
the right side of road when  
they turn onto Musser  
School Rd and run with  
traffic. **TRAVEL COUNTER  
CLOCKWISE &  
RESUME** Running with  
traffic until you pass  
S. Groffdale Rd

- NOTES**
- Measurement assumes a single runner travelling against the flow of traffic — **EXCEPT** on Musser School Rd as indicated
  - Course is restricted to within 3 ft. lane that extends from the pavement edge
  - Course is **NOT** a closed course
  - Route line represents measurement along the Shortest Possible Route (SPR)
  - Mile Markers indicated by a Blue Bird on edge of the road



Measured by  
**Marshall Pickard**  
June 1, 2023  
marshall@2lraceservices.com  
610.301.5792





**START**

N 40° 2' 28.16610"  
 W 76° 10' 27.989660"  
 26 ft 10" (193') South of light pole S266  
 Parallel to Utility Pole affixed with permanent Green Half  
 Marathon Start & Blue 5K Start Signs  
 South of 338 N Ronks Rd, Bird in Hand PA

**FINISH**

N 40° 2' 25.2571070"  
 W 76° 10' 30.94420"  
 Right into meadow just pass gate  
 Finish 6 feet past 16th pole from street, in line with silo

**TURN AROUND**

Musser School Rd  
 N 40° 4' 40.37070"  
 W 76° 7' 42.480"  
 3' 8" NE (63°) of Cement Curbing for Culvert. Located before  
 driveway of 622 Musser School Rd.  
 Marked by Blue Bird on edge of road (Both Sides)

Runners will cross onto  
 the right side of road when  
 they turn onto Musser  
 School Rd and run with  
 traffic. Travel COUNTERCLOCKWISE &  
 Resume Running with  
 traffic until you pass  
 S. Groffdale Rd

**NOTES**

Measurement assumes a single runner traveling against the flow  
 of traffic — **EXCEPT** on Musser School Rd as indicated  
 Course is restricted to within 3 ft. lane  
 that extends from the pavement edge  
 Course is NOT a closed course  
 Route line represents measurement along the Shortest Possible  
 Route (SPR)  
 Mile Markers indicated by a Blue Bird on edge of the road  
 Map not to scale

**Mile 1**  
 Church Rd  
 N 40° 3' 8.10140"  
 W 76° 9' 10.10670"

**Mile 2**  
 N Weavertown Rd  
 N 40° 8' 8.10140"  
 W 76° 9' 10.10670"  
 29' 10" East (102°) of Utility Pole W-36

**Mile 3**  
 W Newport Rd  
 N 40° 3' 28.34700"  
 W 76° 8' 23.74050"  
 15' 4" East (111°) of Utility Pole #45053

**Mile 4**  
 S. Groffdale Rd  
 N 40° 3' 42.13040"  
 W 76° 7' 30.92600"  
 66' SW (212°) of Mailbox #325

**Mile 5**  
 Musser School Rd  
 N 40° 4' 22.24980"  
 W 76° 7' 26.42480"  
 11' 5" E (76°) of 20 MPH Curve Sign

**Mile 6**  
 Musser School Rd  
 N 40° 4' 22.75710"  
 W 76° 7' 37.29730"  
 17' 5" W (278°) of 40 MPH Speed Limit Sign

**Mile 7**  
 Musser School Rd  
 N 40° 3' 52.50050"  
 W 76° 8' 9.82340"  
 8' 5" from Dead Tree and Evergreen Tree after 899 Musser  
 School Rd

**Mile 8**  
 Hess Rd  
 N 40° 4' 3.33830"  
 W 76° 8' 50.56510"  
 10' NW (335°) of Utility Pole #44843

**Mile 9**  
 E Eby Rd  
 N 40° 4' 31.79000"  
 W 76° 9' 13.00460"  
 18' 8" NW (310°) of 20 MPH Curve Sign

**Mile 10**  
 E Eby Rd  
 N 40° 4' 14.78200"  
 W 76° 10' 10.97570"  
 50' 1" SE (138°) of Mailbox #17

**Mile 11**  
 Red Lane  
 N 40° 4' 14.75420"  
 W 76° 10' 10.98570"  
 Before Crest of Last Hill 265' from end of road  
 — NO Permanent Marker (Gravel Drive)

**Mile 12**  
 Driveway off of Gibbons Rd  
 N 40° 3' 15.09250"  
 W 76° 10' 46.20440"  
 26' 5" SW from corner of fence towards end of drive  
 — NO Permanent Marker (Private Property)

**Mile 13**  
 N Ronks Rd  
 N 40° 2' 30.97220"  
 W 76° 10' 28.93680"  
 12' from white post in the field  
 96' from Utility Pole #44085/S26208

**Turn-by-Turn Course Directions**  
 Race starts heading north on N. Ronks Rd.  
 Right on Church Rd  
 Left on N Weavertown Rd  
 Continue straight on W Newport Rd/772  
 Left on Scenic Rd  
 Left on S Groffdale Rd  
 Right on Musser School Rd  
 Turnaround

Follow Musser School past S Groffdale Rd & past N Groffdale Rd  
 Left on E Eby Rd  
 E Eby becomes W Eby (crossing 772)  
 Left on Red Ln  
 Right on Stumptown Rd  
 Left on Gibbons Rd  
 Left into drive opposite bakery  
 Right at end of drive in front of houses  
 Continue on farm lane onto John Smucker property  
 Bear left after small silo  
 Follow driveway around house  
 Continue on farm lane toward Church Rd  
 Left on Church Rd  
 Right on N Ronks Rd  
 Right into meadow just passed gate  
 Finish 6 feet past 16th pole from street, in line with silo