



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

# **Measurement Certificate**



Name of the course Queen Bee Montana Half Marathon Distance 21.0975 km  
 Location (state) MT (city) Billings  
 Type of course: Road Race  
 Measuring Methods: Bicycle  
 Measured By Jesse Carnes, 1120 Toole Ave., Missoula, MT 59802 jcarnes@competitivetiming.com 406-880-7057  
 Race Contact Suzie Eades, 490 N 31st St. #200, Billings, MT 59101 suzie@q360health.com 406-208-1167  
 Date(s) when course measured: 10/25/2022  
 Number of measurements of entire course: 2 Course Configuration: point to point  
 Elevation (meters above sea level) Start 1,158.00 Finish 957.00 Lowest 957.00 Highest 1,158.00  
 Straight line distance between start and finish 16560m Drop 9.50 m/km Separation 78.50 %  
 Type of surface: Paved 100 % Dirt 0 % Gravel 0 % Grass 0 % Track 0 %  
 Effective date of certification: November 8, 2022 Certification code: MT22011MF

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: November 30, 2022

Michael Franke - USATF/RRTC Certifier - 1007 WALNUT, P.O. Box 193, DALLAS CENTER IA 50063  
 (515) 992-3585 - mfranke@q.com

# Queen Bee Montana Half Marathon

Measured on 10/25/2022 by Jesse Carnes

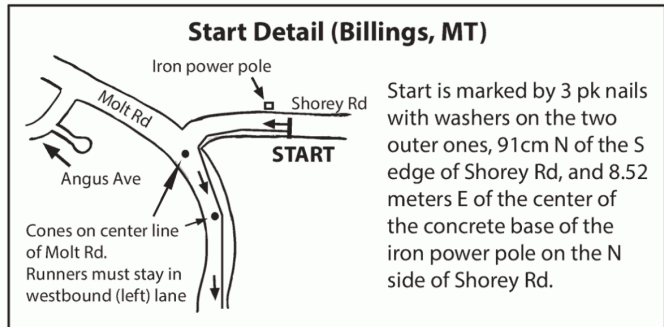
jcarne@competitivetiming.com · (406) 880-7057

This course was measured using the Shortest Possible Route (SPR).

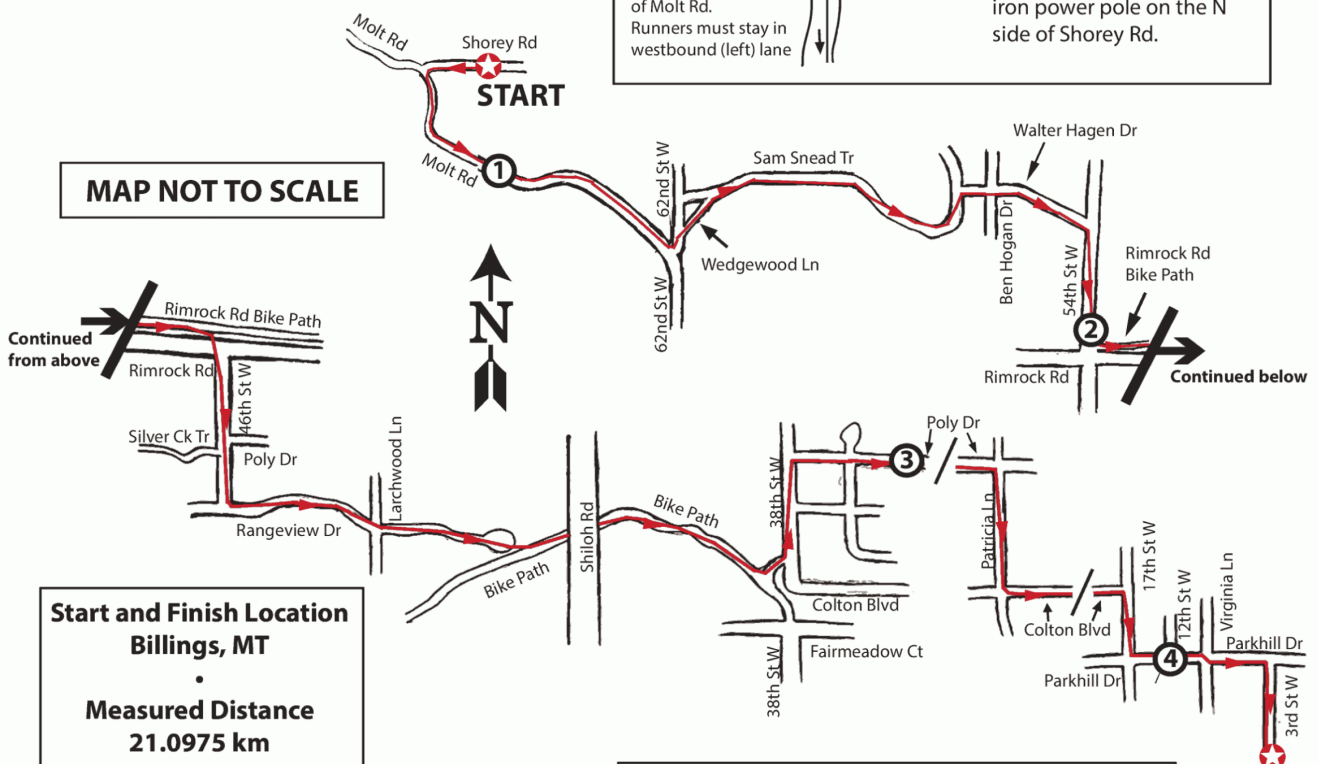


## USATF Certificate

MT22011MF  
 Effective: 11/08/2022  
 Through: 12/31/2032



MAP NOT TO SCALE

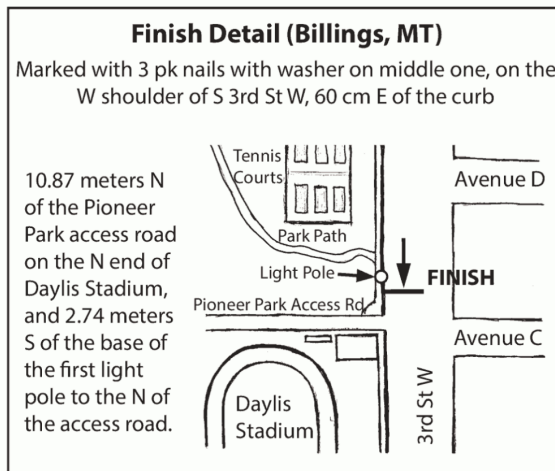


**Start and Finish Location  
 Billings, MT**

Measured Distance  
**21.0975 km**

### Intermediate Points used for measurement:

- ① On Molt Rd, 45.4 meters SE of the E edge of Charolais St
- ② On 54th St W, 21.3 meters N of the N edge of Rimrock Rd
- ③ 10.1 meters W of the W edge of the driveway to 3508 Poly Dr
- ④ Intersection of Parkhill Dr and 12th St W, 1.5 meters W of the E edge of 12th St W



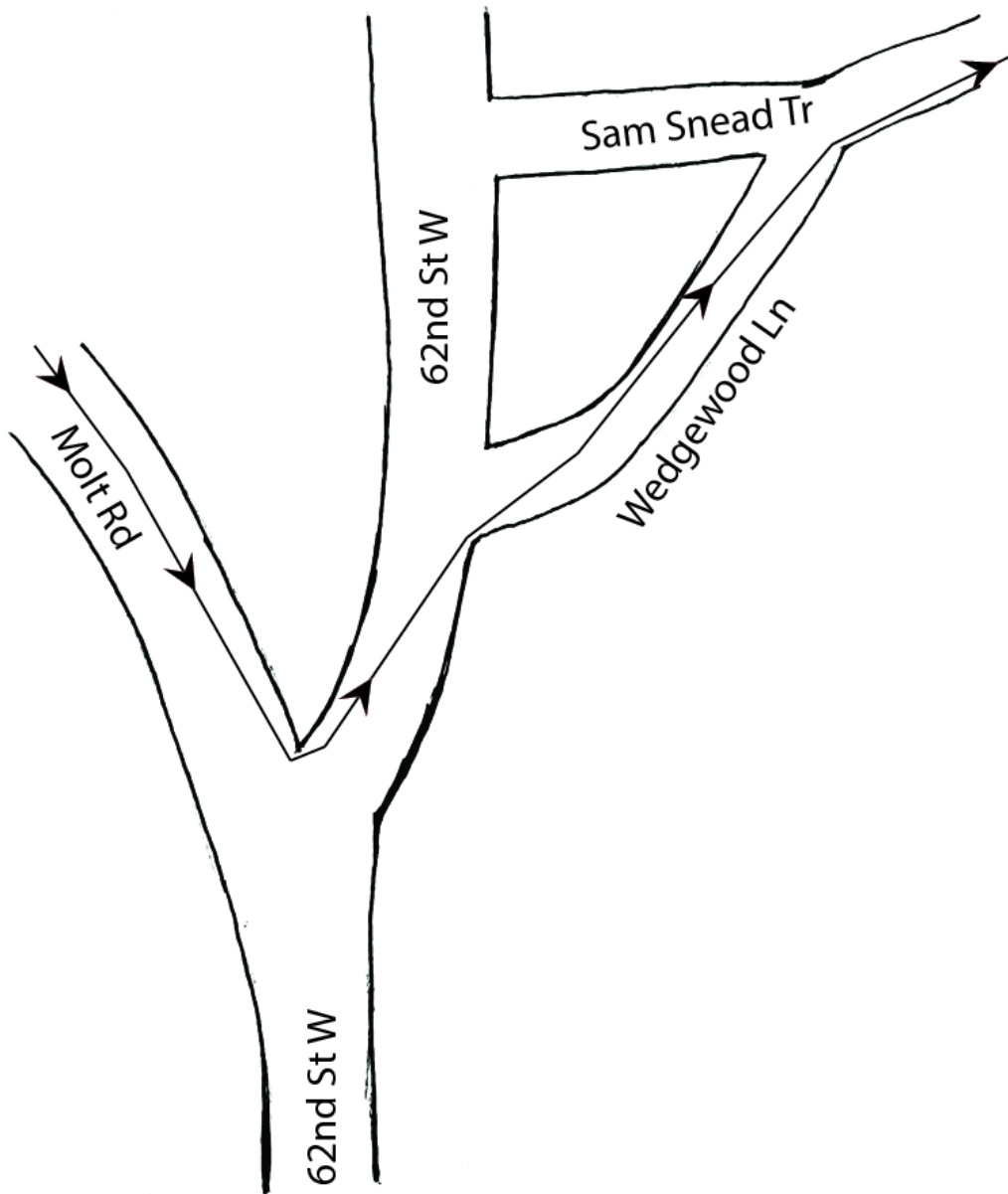
**FINISH**

# Queen Bee Montana Half Marathon

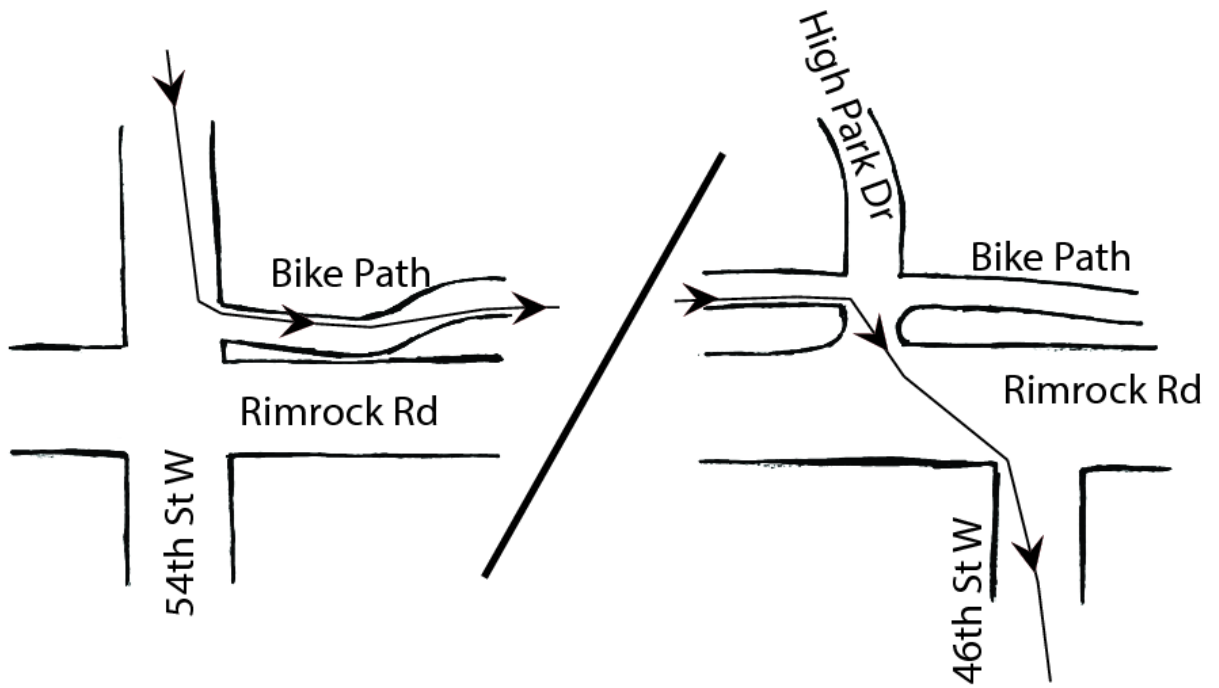
## Course Directions

- START** On S side of Shorey Rd, marked by 3 pk nails with washers on the two outer ones, 91cm N of the S edge of Shorey Rd, and 8.52 meters E of the center of the concrete base of the iron power pole on the N side of Shorey Rd.
- Shorey Rd: Runners start in the westbound (south) lane of Shorey Rd, headed east to Molt Rd
- Molt Rd: Runners turn left in the westbound (north) lane of Molt Rd, staying NORTH of the center line until 62nd St W
- 62nd St W: Runners turn left or northbound using the whole road to Wedgewood Ln
- Wedgewood: Runners turn right or northeastbound using the whole road to Sam Snead Trail
- Sam Snead Tr: Runners turn right or eastbound using the whole road to Walter Hagen Dr
- Walter Hagen: Runners turn right or eastbound using the whole road to 54th St W
- 54th St W: Runners turn right or southbound on 54th St W, using whole road to the bike path N of Rimrock Rd
- Bike Path: Runners turn left or eastbound on the bike path, following the shortest possible route until the intersection of Rimrock Rd and 46th St W
- 46th St W: Runners turn right from the bike path to cross Rimrock Rd onto 46th St W (see detail map) and use the whole road to Rangeview Dr
- Rangeview Dr: Runners turn left or eastbound using the whole road to the east end of Rangeview Dr
- Bike Path: Runners continue past the end of Rangeview Dr onto the bike path, heading east under the Shiloh Drive Underpass using the shortest possible route
- Bike Path Spur: Runners turn left or northeastbound on the bike path spur to 38th St W
- 38th St W: Runners turn left or northbound using the whole road to Poly Dr
- Poly Dr: Runners turn right or eastbound in the eastbound (south) lane on Poly Dr to Patricia Ln
- Patricia Ln: Runners turn right or southbound using the whole road to Colton Blvd
- Colton Blvd: Runners turn left or eastbound on Colton Blvd in the eastbound (south) lane to 17th St W
- 17th St W: Runners turn right or southbound using the whole road to Parkhill Dr
- Parkhill Dr: Runners turn left or eastbound in the westbound (north) lane to Virginia Ave
- Parkhill Dr: Runners cross to the eastbound (south) lane at Virginia Ave and continue east on Parkhill Dr to 3rd St W
- 3rd St W: Runners turn right or southbound in the southbound (west) lane to the finish on 3rd St W

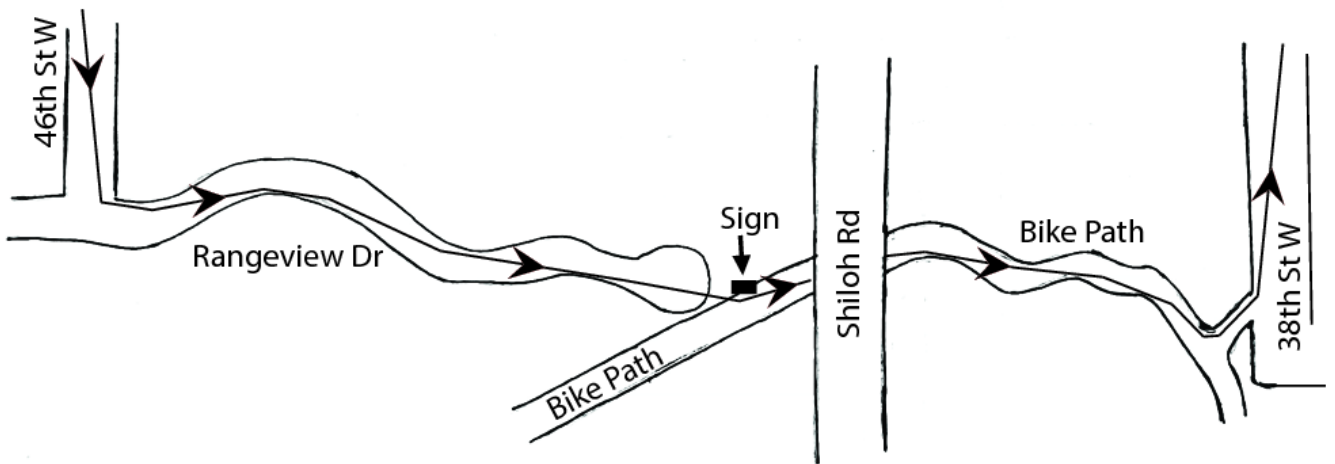
# Molt/62nd/Wedgewood/ Sam Snead Detail



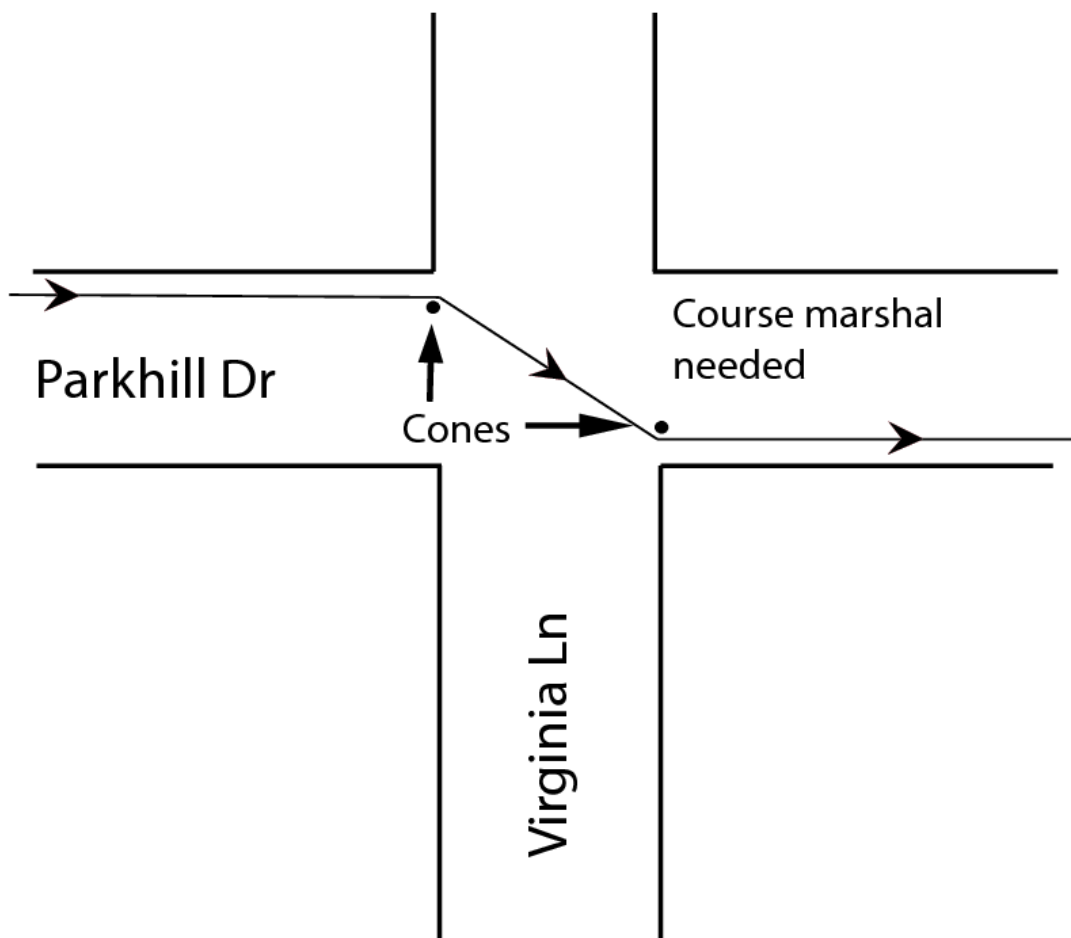
# Rimrock Rd Bike Path Detail



# Rangeview Dr/Shiloh Dr Underpass Detail



# Intersection of Parkhill Dr and Virginia Ln



Runners stay on left shoulder of Parkhill Drive  
until Virginia Ln, then cross to right shoulder  
before proceeding to 3rd St W