



CITY OF GILLETTE

Administrative Services Department - GIS Division

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Dear Reference Station User,

The information given in this document will allow connections to the City of Gillette's Trimble NETR9 Reference station. Several new Ports have been added to the in the last two years. The reference station is located at the Bell Nob Golf Course on the West side of town.

- **Equipment:** Trimble NetR9 GNSS Reference Receiver and Trimble Zephyr Geodetic Antenna
- **Power:** Two 12 volt batteries powered by a solar panel
- **Reference Station Position:** NAD 83 2011 Epoch 2010.00
- **NGS CORs:** It is CORs compliant; however, it is not currently a CORs station
- **Observations:** Rinex 2.11 observations logged hourly are currently available using an FTP site (WinSCP or others); data will be stored for 90 days
- **FTP site Host Name:** <ftp://gis.gillettewy.gov>
- **FTP site User Name:** Anonymous
- **Radio:** There is no radio connected to the reference station; there is a wireless router built into it to be continuously connected to the Internet which logs files hourly
- **RTK Corrections:** are currently available using a Cellular Device and an IP address
- **Internet Protocol (IP) Address to use in the Cellular Device:** 69.145.187.164
- **Current Formats:**
 - TCP/IP Port 5017 - RT27 (1Hz)
 - TCP/IP Port 5018 – CMRx
 - TCP/IP Port 5019 – RTCM_V3
 - TCP/IP Port 5020 – CMR +
 - NTRIP Caster 1 Port 2101 – CMRx
 - NTRIP Caster 2 Port 2102 – RTCM_V3
 - Serial Serial 1 (38.4K-8N1) – CMR
- **Configurations:** It is Trimble equipment, however other systems can use the reference station
- **City Calibration:** PCA Engineering, Inc. did a three-point translation for the new City base broadcasting NAD83-2011(2010) position to the original published City Horizontal and Vertical Control Networks [NAD83-(86)]. If an entity would like to use the calibration, it can be found on the website.
- **Technical questions:** Especially datum inquiries, should be directed to Mel Philbrook, Applied Geospatial Engineer Manager of Frontier Precision, Inc., (720) 214-3500

We also invite you to our webpage, <https://www.gillettewy.gov/GIS> for more data about the reference station.

Sincerely,

The GIS Division