



CITY OF LOVELAND VERTICAL CONTROL NETWORK- Based on NGVD 29
August 6, 2020

The Loveland Vertical Control Network information, which was established in 1995, has been updated. *The updated information is not the result of a field survey or field investigation.* The 1995 field survey data however was utilized for the majority of the update along with a few new points being added through various projects.

This benchmark system was and is still based on the National Geodetic Survey (NGS). The information for the NGS benchmarks can be acquired from their Web Site at: https://www.ngs.noaa.gov/cgi-bin/ds_desig.prl. The NGS datasheets available at their Web Site list both NGVD 29 and NAVD 88 elevations.

It shall be noted that the **CITY OF LOVELAND VERTICAL CONTROL NETWORK is referenced to NGVD 29** and will be used for reference to all Public Improvement Construction Plans (PICPs) per the Larimer County Urban Area Street Standards (LCUASS).

The Loveland Vertical Control Network information can be interpreted as follows:

NGS CONTROL BENCHMARKS – Pages 1 thru 3

- The City’s “BENCHMARK NUMBER” column refers to the NGS benchmark “Designation”.
- The “STREET LOCATION” column is a copy of the NGS’s information at the time of their last recovery. City location data has also been included when available.
- The “DESCRIPTION” column lists the NGS datasheet information.
- The “ELEVATION” column lists both NGVD 29 and NAVD 88. Note per LCUASS the NGVD 29 Elevation is the required reference for development projects within the City.

PRIMARY BENCHMARKS – Pages 4 thru 12

- The City’s “BENCHMARK NUMBER” column refers to a number assigned by City staff when the mark was established.
- The “STREET LOCATION” column states what City information was available at the time the mark was established. Any updated City location data has also been included when available.
- The “DESCRIPTION” column lists the City’s information at time of establishment of the mark.
- The “ELEVATION” column lists both NGVD 29 and NAVD 88. These marks were originally established in 1995 by field survey from NGS Control Benchmarks on the NGVD 29 system. NGVD 88 elevations were established with the same 1995 field notes and these elevations are not the result of an actual field survey. Again, per LCUASS the NGVD 29 Elevation is the required reference for development projects within the City.

The information contained herein is for use by the public and that any person utilizing this information shall be responsible to check the published data and the benchmarks in the field to verify their accuracy and that the City of Loveland is not responsible for errors or damages as a result of the use of this information.

For additional information regarding this matter contact me at dave.debaere@cityofloveland.org or (970) 962-2510.
Respectfully Submitted,

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