
Appendix L

Control Systems

It is the City of Hamilton's intention to promote the use of the COSINE system by submitting for inclusion all of our control, both Horizontal and Vertical.

Please familiarize yourself with the COSINE online system by visiting the website at:
<http://www.cosine.mnr.gov.on.ca>

The City of Hamilton is not the only contributor to the Control fabric in this area and to obtain the widest possible result use of this system is required.

- Horizontal Standard = NAD 83
- Vertical Standard = CVGD 28 adjustment

Please note however further to the above, the vertical systems have been renamed. What was previously known as the 1978 adjustment is now known as CGVD28 (Canadian Geodetic Vertical Datum 1928). The 1927 values are referred to as Pre-CGVD28 values on the COSINE system and on our new sketches.

Great caution should be exercised to ensure that the benchmarks used in the projects you undertake are within the same adjustment. Care should also be taken when relating to previous engineering drawings, etc., to confirm the source of the elevations used for the information shown of the drawings, plans, etc.

The City of Hamilton has over 60,000 engineering drawings relating almost exclusively to the 1927 adjustment. This represents thousands of miles of sewers, watermains, and roads related to that adjustment.

Many area municipalities projects relate to the 1978 datum, so any project undertaken that crosses previous Municipal boundaries should be checked thoroughly.

GPS projects that span Municipal boundaries need caution as well.