

CITY OF FRISCO MONUMENT METADATA

See Subdivision Ordinance and Engineering Standards for Final Plat requirements.

Metadata

Horizontal Datum

The datum used for the City of Frisco GPS monuments is the NAD 83(1993) HPGN adjustment. Datasheets for the NAD 83(1993) HPGN published values of the U.S. Government monuments are available online at www.ngs.noaa.gov/datasheet.html.

Projection

The projection used is the Texas North Central Zone (4202) State Plane projection. The projected coordinate values for U.S. Government monuments in the region are available at the above referenced website. Published units are metric, but the City of Frisco units are US Survey Feet. The conversion from the published positions of the NGS monuments in metric units to US Survey Feet was made using a conversion factor of 3.280833333 US Survey Feet per meter.

Vertical Datum

The vertical datum used is NAVD 88 based on the U.S. Government monuments used in the network. Orthometric elevations for the new monuments were derived using GEOID99.

Recommended Combined Scale Factor

The published coordinates for all of the monuments in the system are GRID values. To convert distances measured on the topographic surface to grid distances, it is recommended that a standardized COMBINED SCALE FACTOR of 0.999841847 be used. The COMBINED SCALE FACTOR is the product of the Scale Factor at a given location and the Ellipsoid Reduction Factor which is computed from the height above ellipsoid of the point. For the City of Frisco, the COMBINED SCALE FACTOR was computed at Monument 1, which is near the center of the system.

Control Monuments Used

The following control monuments were recovered and used in the City of Frisco GPS network:

WETSEL NGS PID DN1157

WESTON NGS PID DN1139

PROSPER NGS PID DN1162

POE NGS PID DN0340

GARZA NGS PID DN1175

C263 NGS PID DN0276

X930 NGS PID DN0279

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TXDOT MONUMENT R0430010

PLANO MONUMENT 120

PLANO MONUMENT 201