

UNITED CITY OF YORKVILLE

REQUIREMENTS FOR ELECTRONIC SUBMITTALS

Overview

The developer/owner of any project within the United City of Yorkville (City) shall submit a version of the final approved plans in electronic format for incorporation into the City's geographic information system (GIS); in accordance with section 11-5-6 of the City's Subdivision Control Ordinance. This requirement applies to all new developments.

Geodetic Control

In 2008 the United City of Yorkville installed 12 survey control monuments at various locations around the City. These monuments provide a grid network that will facilitate GPS surveying methods. The monuments are tied to the Illinois State Plane Coordinate System, East Zone, NAD83. Vertical Datum is NAVD88.

Coordinate System

The coordinate information contained in the digital drawings or record plans shall be delivered in the Illinois State Plane - East coordinate system using the North American Datum 1983 horizontal datum (Transverse Mercator projection) and North American Vertical Datum 1988 vertical datum using US Survey feet as units. These data shall be produced in real coordinate space with an insertion point of (0,0). Horizontal and vertical accuracy of these data shall meet the minimum industry standards for surveys and maps.

Data Formats

In addition to the final as-built plans submitted in hard copy format a digital data file of the final as-built plans shall be provided to the City in one of the following formats:

- SHP (ESRI ArcView format)
- DWG (AutoCAD format)
- DXF (AutoCAD ASCII drawing exchange file)
- ESRI Personal Geodatabase

An accompanying text file shall be included that describes the Layers along with the Layer Numbers or Layer Names in the digital data file. All digital files shall be mapped to scale and submitted to the City on CD or DVD.

Data Layering Requirements

No formal layering scheme is required; however the following elements must be on separate layers:

- Parcel Boundary Lines / Road ROW Lines
- Road Centerline
- Easement Line
- Storm Sewer
- Sanitary Sewer
- Potable Water Line
- Storm Structure
- Sanitary Structure
- Potable Water Structure
- Fire Hydrants
- Ponds / Detention Basins
- Street Lights
- Benchmarks
- Edge of Pavement
- Contours
- Wetlands

Notes:

- *For ESRI formats; the Layering Requirements refer to a Layer or Level field in the attribute file of the digital data file.*
- *Line work for these features shall be continuous and should contain topological consistency with other lines i.e. lines shall not be broken by label text or connected to other lines by marker pins.*