

Information about the *WinGIS Control Network Reference Tie Form*

About WinGIS

Winnebago County Geographic Information System (WinGIS) is a consortium of local governmental agencies within Winnebago County created to develop an accurate county-wide geographic information system (GIS). The cooperative effort includes the sharing of both financial and informational responsibilities.

The goal of WinGIS is to provide a complete, accurate and cost-effective GIS service to Winnebago County. The continual maintenance of an accurate base map is an ongoing benefit to taxpayers.

About the WinGIS Control Network

The Illinois State Plane Coordinate System ties together the various geographic data incorporated into the GIS system. WinGIS has developed the Winnebago County Geodetic Control Network to establish an accurate base map and foundation for our GIS. The use of the coordinates associated with this control network ensures geographic positional accuracy. Coordinate information can be found on the WinGIS web site at www.wingis.org or www.ngs.noaa.gov.

Why Require Utilization of this Control Network?

We are requesting that all subdivisions, plats, replats, plats of survey, boundary surveys and corner perpetuation forms - which are required by ordinance or law - be referenced to the Winnebago County Geodetic Control Network. The benefits of this requirement include:

- Efficient revision of FEMA flood maps
- Cost-effective planning for future developments
- Cost savings in database maintenance
- Improved accuracy of the GIS



WinGIS

**Winnebago County
Geographic Information System**

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Requirement Highlights

- Two (2) opposing corners within any plat or other survey shall be tied to the Winnebago County Geodetic Control Network and coordinate values shall be placed on the face of the plat.
- The survey method may be either Differential GPS or Closed Traverse.
- The form (located on back) must be signed by an Illinois Professional Land Surveyor and submitted to WinGIS *with a copy of the final plat*.
- A copy of the completed form must also be sent to the reviewing jurisdiction at the time of final plat submittal.
- The final plat shall contain a signature certification by the WinGIS Director or designee.

Typical Signature Certificate Language

I hereby certify that I have reviewed and approved the ties to the Winnebago County Geodetic Control Network for the property embraced within this plat. The Geodetic Control Network Reference Tie Form has been submitted and approved.

_____. (WinGIS Director or designee)

Typical Ordinance Language

Any subdivision, plat or replat (exempting minor subdivisions as defined below) will be required to provide geodetic survey horizontal control values for a minimum of two (2) opposing corners of the permanently monumented subdivision, plat or replat.

Horizontal control values must be provided in the Illinois State Plane Coordinate System, North American Datum (NAD) 1983 West Zone and referenced on the subdivision, plat or replat.

The positional accuracy for the horizontal control values shall be a minimum order C-1. If differential GPS methods are used to acquire the horizontal control values, vertical control values shall also be required for the two (2) opposing corners.

A WinGIS Geodetic Control Network Reference Tie Form must be signed by an Illinois Professional Land Surveyor and submitted to WinGIS with a copy of the final plat. A copy of the completed form must also be submitted to the reviewing jurisdiction for review at the time of final plat submittal. The final plat shall contain a signature certification by the WinGIS Director or designee.

Minor Subdivision

Any subdivision of less than five (5) acres, containing not more than five (5) lots, and fronting on an existing improved street, and not involving any new street or road, and not adversely affecting the development of the remainder of the parcel or adjoining property, and not in conflict with any provision or portion of the Official Plan, Zoning Ordinance, or Subdivision Control Ordinance of the

_____. (jurisdiction name here)

WinGIS Geodetic Control Network Reference Tie Form

WinGIS Monument Used - Name: Win_____ Date Accessed: _____

Coordinates: N _____ E _____

Elevation: _____

Survey Method:

- Differential GPS _____
- GPS Receiver _____
- # of Satellites Acquired _____
- Accuracy _____ (Minimum order C-1)
1:100,000

OR

- Closed Traverse _____
- Backsight or Closing Monument Name-Win _____
- Backsight or Closing Monument Bearing _____
- Backsight or Closing Monument Coordinates N _____
E _____
- Traverse Closure: 1: _____
- Accuracy _____ (Minimum order C-2-I or 2nd Order Class I)
1:50,000

Did you have a problem locating or using any WinGIS monument(s)?

No _____ Yes _____ If Yes, Name of Monument(s)
Win _____
Win _____

Were the post(s) visible? No _____ Yes _____

Comments: _____

The above information will assist us with our ongoing monument-replacement project.

New Corners Set: _____ **Subdivision Name:** _____

1. Corner Description (section corner, lot corner, etc.) _____

_____ Township & Jurisdiction: _____

Monument Type/Material _____ Elevation _____

Coordinate Values N _____ E _____

2. Corner Description (section corner, lot corner, etc.) _____

Monument Type/Material _____ Elevation _____

Coordinate Values N _____ E _____

Surveyor's Name _____ Phone # _____ Fax # _____

I hereby certify that I, or an individual under my direct supervision, have gathered said information in the field and submitted as complete and accurate.

Illinois Professional Land Surveyor Signature Number Today's Date

For WinGIS Office Use:

Date Received: _____

Date Checked: _____

Approved: **Y N** Initials: _____