

Project Name (Subdivision, Filing, Type, etc.)

**BROOMFIELD GEODETIC SURVEY REQUIREMENTS**  
**ALL FINAL PLATS AND MINOR SUBDIVISIONS**

☞ **Surveyor please initial each item as completed**

- \_\_\_ 1. Show all distances in **Modified State Plane measurements** (in U.S. survey feet to the hundredth of a foot). Survey plat shall be prepared using State Plane grid distances modified to a mean project elevation above sea level and a mean scale factor for the project. **Only one combined factor shall be used for the entire survey.** All of the line distances shown on the plat shall be dimensioned using the above mentioned mean factor (said Modified State Plane distances).
- \_\_\_ 2. The **Basis of Bearing statement** shall specify which **2 City of Broomfield GPS Control Points** were selected to establish the **State Plane grid bearings** used for this survey plat. Specify the **State Plane grid bearing and said Modified State Plane distances** between these **2 GPS Control Points**.
- \_\_\_ 3. This document shall also contain a **statement showing the modification factor (to 8 decimal places)** needed to reduce the **said Modified State Plane grid coordinates to State Plane values**.
- \_\_\_ 4. **Closure report** of platted area showing **error of closure**, (prior to any adjustment) not greater than 1 part in 10,000 parts per Broomfield Municipal Code 16-20-040 (d).
- \_\_\_ 5. **Show tie** as dashed lines with **bearings** and **said modified state plane distances** to the following:
- **2 corner points of this plat to 2 GPS Control Points** (provided by the City of Broomfield Global Positioning Systems network monumentation information) and
  - **1 corner point** of this plat to the **Public Land Survey System (PLSS)** monument used in this survey.
- \_\_\_ 6. Label **Latitude/Longitude** (to the ten thousandths of a second), **said Modified State Plane grid coordinates** (in U.S. survey feet to the hundredth of a foot), and **State Plane grid coordinates** (in U.S. survey feet to the hundredth of a foot) Colorado Northern Zone (0501) State Plane (NAD 83/92) at:
- the above mentioned **2 corner points** of the plat,
  - the above mentioned **2 GPS Control Points** used, and
  - the above mentioned **PLSS monument** used.
- \_\_\_ 7. Provide a **digital file** of the project in **dwg** format, **positioned correctly** in **said Modified State Plane grid coordinates as listed on this plat**, with **all bearings relative to the State Plane grid Basis of Bearing**.
- \_\_\_ 8. This document shall also include a **statement describing the standard of accuracy**, as defined by the National Ocean Survey/National Geodetic Survey, maintained in developing the coordinates shown therein, per C.R.S. 38-52-106.

**The Colorado Coordinate System hereon shown is defined as \_\_\_\_\_ order, Class \_\_\_\_\_, 1:\_\_\_\_,000 as described in the "Geometric Geodetic Accuracy Standards and Specifications for using GPS relative positioning techniques and/or Standards and Specifications for Geodetic Control Networks" by the Federal Geodetic Control Committee.**

**All items above have been completed as required.**

\_\_\_\_\_  
Surveyor Name (print)

\_\_\_\_\_  
Surveyor Signature

Please contact the GIS Department at (303) 464-5834 for GPS monument locations and records closest to your project and any questions.