



Jackson County Geodetic Control

April 15, 2008

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Disclaimer:

The information presented herein is a reference, and is not intended to be a comprehensive guide to geodetic control. Usage of the information contained in this guide, or on the datasheets is at the sole discretion of the end user. Wood Brothers & Scott, Inc. and Jackson County Georgia Government assume no liability for the use or

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Section 1: Overview

- New stations were established throughout the county based on carefully planned network geometry
- Each point was established in a GPS suitable location¹.
- All of the points are located on public property²
- All of the measurements were performed using calibrated dual frequency, full wavelength static GPS antennas and receivers.
- Each new point is a 3 ½” brass disk, stamped Jackson County Geodetic Control with the station number and year fixed to the end of a ½” diameter rebar, set in an 8” in diameter bored hole, at least 30” in depth³ filled with 3000psi concrete.
- Horizontal datum is NSRS 2007
- Vertical datum is NAVD 88, and Geoid03, GRS 80
- Each station (old and new) now has a recovery sheet showing a sketch, and all of the necessary location information.

¹ These locations were GPS suitable as of April 15, 2008.

² New Points located on public lands and in the rights-of-way based on occupation lines and survey evidence where available, rights-of-way surveys were not performed. Some of the existing NGS points are not on public property.

³ All points set a least 30” in depth, unless bedrock was hit prior to reaching depth.

Section 2: Discrepancies

The following discrepancies were found in the existing NGS control:

- **G003A** does not appear to be the same point listed in the NGS database⁴
- **BV078-200** is described on the NGS datasheet on the wrong side of the road. Point was recovered in good condition.
- **RV100**: The NGS horizontal coordinates differ greatly from what is contained in the Jackson County datasheets. The NGS coordinates were scaled from a quadrangle map.⁵ Point was recovered as described. Refer to Jackson County recovery sheet for additional information.
- **W60**: The NGS horizontal coordinates differ greatly from what is contained in the Jackson County datasheets. The NGS coordinates were scaled from a quadrangle map.⁶ Point was recovered as described. Refer to Jackson County recovery sheet for additional information.

⁴ The National Geodetic Survey published coordinates of G003, Disk was reset by Gwinnett county in 2001

⁵ The horizontal coordinates on the Jackson County recovery sheet are based on static GPS observations.
This point was used in the network as vertical control.

⁶ The horizontal coordinates on the Jackson County recovery sheet are based on static GPS observations.
This point was used in the network as vertical control.

Section 3: Existing NGS Control

- Existing NGS control in the county was checked and referenced.
- There are many NGS points throughout the county that have elevations derived from a vertical angle observation, and are only published to the nearest foot.
- Recovery Sheets were created only for the existing NGS control that was found and in good condition. The remainder of the points were destroyed, not found, or inaccessible on private property.

Section 4: Station Recovery

On each recovery sheet there is a space to note the date of last recovery. Should you recover, or find that a point has been destroyed or disturbed, please note it on the space provided and return a copy of the sheet to:

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