

21 NCAC 56 .1602 SURVEYING PROCEDURES

- (a) A Professional Land Surveyor shall spend the necessary time and effort to make investigation to determine if there are encroachments, gaps, lappages, or other irregularities along each line surveyed. Points may be placed on the line from closed or verified traverses and the necessary investigations made from these points. If these investigations are not made, then the surveyor shall not certify to an actual survey of that line and the plat shall contain the appropriate qualifications in accordance with the rules in this Section.
- (b) Any and all visible or determined encroachments or easements on the property being surveyed shall be accurately located and indicated.
- (c) With respect to investigation of property boundaries and recorded easements, the surveyor shall examine the most recent deeds and recorded plats adjacent to the subject property as well as all deeds and plats recorded after the date of the deed or plat upon which the survey is being based (the survey reference deed or plat).
- (d) Except as provided in Paragraph (e) of the Rule, metal stakes or materials of comparable permanence shall be placed at all corners.
- (e) Where a corner falls in a right-of-way, tree, stream, or on a fence post, boulder, stone, or similar object, one or more monuments or metal stakes shall be placed in the boundary so that the inaccessible point may be located accurately on the ground and the map.
- (f) The results of a survey shall be reported to the user of that survey as a map or report of survey and, whether in written or graphic form, shall be prepared in a clear and factual manner. All reference sources shall be identified. Artificial monuments called for in such reports shall be described as found or set. When no monument is found or set for points described in Paragraph (e) of this Rule, that fact shall be noted.
- (g) Tie lines defined. Where the results of a survey are reported in the form of a plat or a written description, one or more corners shall, by a system of azimuths or courses and distances, be accurately tied to and coordinated with a horizontal control monument of some United States or State Agency survey system, such as the North Carolina Geodetic Survey, where such monument is within 2000 feet of the subject property, right-of-way, easement or other surveyed entity. Where the North Carolina grid system coordinates of said monument are on file in the Department of Public Safety, Emergency Management, Geodetic Survey office, the coordinates of both the referenced corner or point and the monument(s) shall be shown in X (easting) and Y (northing) coordinates on the plat or in the written description or document. The coordinates shall be identified as based on "NAD 83," indicating North American Datum of 1983 or as "NAD 27," indicating North American Datum of 1927. The datums of the National Geodetic Survey (NGS) are incorporated by reference including subsequent amendments and editions, and may be accessed free of charge at www.ngs.noaa.gov. The tie lines to the monuments shall be sufficient to establish true north or grid north bearings for the plat or description if the monuments exist in pairs. Control monuments within a previously recorded subdivision may be used in lieu of grid control. In the interest of bearing consistency with previously recorded plats, existing bearing control may be used where practical. In the absence of grid control, other natural or artificial monuments or landmarks shall be used. In all cases, the tie lines shall be sufficient to accurately reproduce the subject lands from the control or reference points used.
- (h) Area is to be computed by double meridian distance or equally accurate method and shown on the face of the plat, written description, or other document. Area computations by estimation, by planimeter, by scale, or by copying from another source are not acceptable methods, except in the case of tracts containing inaccessible areas and in these areas the method of computation shall be stated.

*History Note: Authority G.S. 89C-10; 89C-20;
Eff. July 1, 1989;
Amended Eff. August 1, 2014; August 1, 2012 (see S.L. 2012-143, s.1.(f)); September 1, 2011;
May 1, 2009; August 1, 2000; August 1, 1998; February 1, 1996;
Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. April 27,
2019.*