

## SUBCHAPTER 13. MINIMUM STANDARDS FOR LAND SURVEYING

### 245:15-13-2. Minimum Standards

- (a) **Definitions:** as used in these standards, the following terms shall have the following meanings where the context permits as provided in 59 O.S. 471.1 et seq and Chapter 245:15-1-3 of the Rules of the Board.
- (b) **Research and investigation.** Every property boundary survey shall be made in accordance with the boundary description, as provided to or as created by the surveyor, as nearly as is practicable. The surveyor, prior to making a survey, shall acquire available necessary survey data, which may include record descriptions, deeds, maps, abstracts of title, section corner ties, government notes, subdivision plats, road records, and other available section and boundary line location data in the vicinity. The surveyor shall analyze the data and make careful determination of the record title boundary of the property to be surveyed. From the information gathered, the surveyor, or those working under ~~their~~ his or her direct control and personal supervision, shall search thoroughly for all controlling corners and all other available field evidence of boundary location. In the event of the discovery of a material disagreement with the work of another surveyor, the surveyor shall make reasonable efforts to contact the other surveyor in an attempt to resolve the disagreement.
- (c) **Minimum technical standards for land or boundary surveys (field and office).**
- (1) In order for a plat, subdivision plat, map, or sketch of a survey to be acceptable in terms of this rule, it must be complete and shall be certified or otherwise stated as meeting these minimum technical standards.
  - (2) All measurements made in the field shall be in accordance with the United States Standard, using either US Survey Feet or meters. All measurements shall be referenced to the horizontal or vertical plane, with the exception of geodetic surveys.
  - (3) All survey drawings produced by an individual practicing under his or her own name shall bear the name, address, and telephone number, along with the license number, seal, signature, and date of signature of the surveyor. All survey drawings produced by a firm shall bear the name, address, telephone number, certificate of authorization Certificate of Authorization number and expiration date of the Certificate of Authorization of the firm issuing the drawing, along with the name, license number, seal, signature, and date of signature of the surveyor.
  - (4) All survey drawings must bear the date of the last site visit and bear the date of any revisions thereon. If the site visit was performed on multiple dates, the drawing may specify the range of those dates.
  - (5) A designated north arrow and scale of the map shall be shown prominently upon the drawing.
  - (6) Any symbols and/or abbreviations representing physical objects used on the drawing will be clearly noted upon the drawing.
  - (7) A reference to all bearings shown must be clearly stated, i.e., whether to 'True North'; 'Grid North as established by state plane datum'; 'Assumed North based on the bearing of a well established line'; a 'Deed call for a particular line'; or 'the bearing of a particular line shown upon a plat'; etc.
  - (8) Surveys shall be referenced to existing corners and monuments.
    - (A) Surveys based on the United States Public Land Survey System shall be referenced to original or properly restored corners. The appropriate Bureau of Land Management Manual of Surveying ~~instructions~~ Instructions shall be used as a guide for the restoration of lost or obliterated corners and subdivision of sections into aliquot parts.
    - (B) Lot surveys within platted subdivisions shall be referenced to existing corner monuments within the subdivision as necessary to verify the survey.

(9) Where evidence of inconsistencies is found, such as overlapping descriptions, hiatuses, excess or deficiency, or conflicting boundary line or monuments; the nature and extent of the inconsistencies shall be shown on the drawing.

(10) All survey drawings shall show the change in direction between lines, lines and curves, and between adjacent curves, by angles, bearings or azimuths. Circular curves shall show: 1. The length of radius; 2. The arc distance; and 3. The chord distance and chord bearing. Sufficient information must be shown to mathematically close all lots and/or parcels.

(11) All easements, ~~and~~ rights-of-way and building lines drawn or referenced on recorded subdivision plats on or across the land being surveyed and the width of the rights-of-way of all section lines adjoining or within the surveyed property shall be shown upon the survey drawing. Physical evidence of roadways providing access to or through the property being surveyed shall be shown and/or noted. If location of easements or rights-of-way, other than those drawn or referenced on recorded subdivision plats is required, this information must be furnished to the surveyor.

(12) The land surveyor shall establish or confirm a monument or confirm the prior placement of monuments at each and every property corner on the boundary line or boundary lines of the parcel or tract of land being surveyed. In such cases where the placement of a required monument at its proper location is impractical, a witness or reference monument shall be placed with the data given to show its location upon the ground in relation to the boundary lines or corner. In any case the type and size of all monuments, either found or set, and the relationship of the monuments to the surveyed lines and corners will be shown on the drawing. Where practical, monuments shall be constructed of material capable of being detected with the conventional instruments for finding ferrous or magnetic objects. ~~Such~~ All set monuments shall have affixed thereto a durable marker or cap bearing, at a minimum, the license number of the land surveyor in responsible charge, or the ~~certificate of authorization~~ Certificate of Authorization number of the firm performing the survey.

(13) The accuracy of the measurements for the survey shall be based upon the type of survey, and the current or expected use of the land. The accuracy of the measurements thus performed shall be substantiated by the computations of the traverse; the relative error of closure permissible shall be no greater than the following standards given below:

(A) Where there is or will be zero lot line construction on small tracts in a high density urban area, the allowable closure error is 1:10,000 and the allowable positional error is plus or minus 0.10 feet.

(B) In residential or commercial subdivisions where the length of lines does not exceed 300 ft, the area of tracts does not exceed 2 acres, and there is no plan for zero lot line construction, the allowable closure error is 1:10,000 and the allowable positional error is plus or minus 0.25 feet.

(C) In suburban or rural residential or industrial tracts where the length of lines does not exceed 1000 feet and the area of tracts is between 2 and 40 acres, the allowable closure error is 1:7,500 and the allowable positional error is plus or minus 0.50 feet.

(D) Rural tracts of 40 acres or more where the corners of the tract may be connected with traverse legs in excess of 1000 feet, the allowable closure error is 1:7,500 and the allowable positional error is plus or minus 1.5 feet.

(E) Rural tracts of 40 acres or more in rough or tree covered terrain where the corners of the tract must be connected with short traverse lines because of poor visibility between the corners of the tract, the allowable closure error is 1:5,000 and the allowable positional error is plus or minus 3.0 feet.

(F) Field work which has a closure error greater than the maximum allowed, or linear error of closure greater than the maximum positional error shown, shall be considered

unacceptable and shall be corrected. Adjustment of a traverse must not shift the position of any point more than the maximum positional error listed above.

(G) In lieu of maximum allowable positional error, the latest Accuracy Standards for ALTA/ACSM Land Title Surveys may be used for determining minimum accuracy requirements.

(14) When special conditions exist that effectively prevent the survey from meeting these minimum standards, the special conditions and any necessary deviation from the standards shall be noted upon the drawing. It shall be a violation of this rule to use special conditions to circumvent the intent and purpose of these minimum standards.

(15) A survey plat, sketch or map must be created at any time a new parcel of land is created by a field survey, or if there are inconsistencies between an existing legal description and evidence found on the ground. In any event, every survey plat, sketch or map must contain the legal description of the land being surveyed, either on the face of the survey plat or attached to and referenced to the survey plat.

(16) Additions or deletions to survey drawings by other than the signing party or parties is prohibited without written consent of the signing party or parties.

(d) Minimum Standards for ~~Property~~ Legal Descriptions.

(1) ~~All property~~ Metes and bounds descriptions prepared shall at a minimum contain the following items:

(A) A preamble containing the Quarter Section, Section, Township, Range, ~~Principle~~ Principal Meridian (Indian or Cimarron) and the County and/ or City of the tract of land being described or a preamble containing the Lot and/or Block number, subdivision name and if available, the recording information of the plat and the City, if applicable, and county County in which it is filed of record, and

(B) A beginning point (if applicable) referenced to a point such as a section corner, quarter-section corner, sixteenth section corner, or a Lot/Block corner of a recorded subdivision, and

(C) Distances listed to the nearest hundredth of a foot (if surveyed), and

(D) Bearings or angles listed in degrees, minutes and seconds (if surveyed), and

(E) A reference to all bearings shown must be clearly stated, i.e., whether to 'True North'; 'Grid North as established by state plane datum'; 'Assumed North based on the bearing of a well established line'; a 'Deed call for a particular line'; or 'the bearing of a particular line shown upon a plat', and

(F) Curved lines with circular curves shall show: 1. Direction of the curve (right or left); 2. The radius; 3. Arc distance; and 4. Chord distance and chord bearing, and

~~(G) The aliquot method of describing the property may be used in lieu of a metes and bounds description, and~~

~~(H)~~ (G) The name and license number of the professional surveyor who prepared the description, and

~~(H)~~ (H) The date of preparation of the ~~property~~ legal description, and

(I) Each metes and bounds description must return to the Point of Beginning and close mathematically within the allowable closure error stated in this subchapter.

(1) Aliquot descriptions may be used in lieu of a metes and bounds description and shall at a minimum contain the following items: Quarter Section, Section, Township, Range, Principal Meridian (Indian or Cimarron), city (if applicable) and the County of the tract of land being described.

(2) Lot and block description may be used in lieu of a metes and bounds description and shall at a minimum contain the following items: Lot and/or Block number, subdivision name, City (if applicable), the County in which it is filed of record and, if available, the recording information of the plat.

(24) A written legal description of the surveyed tract of land must provide sufficient information to locate the property on the ground and distinctly set it apart from all adjoining properties.

~~(3) Each metes and bounds description must return to the Point of Beginning and close mathematically within the allowable closure error stated in this subchapter.~~

(e) Mortgage inspection report. A Professional Land Surveyor may, based upon their general knowledge of land boundaries and monuments in a given area, prepare a Mortgage Inspection Report for the use of a specific client. Such report shall be prominently labeled 'Mortgage Inspection Report' and shall not be designated as or construed as being a Land or Boundary Survey, and the statement furnished on the certificate shall be similar to the following form:

#### MORTGAGE INSPECTION REPORT

'This Mortgage Inspection Report was prepared for ...(individual or firm)... It is not a land or boundary survey plat, and it is not to be relied upon for the establishment of fence, building or other future improvement lines. The accompanying sketch is a true representation of the conditions that were found at the time of the inspection, and the linear and angular values shown on the sketch, if any, are based on record or deed information and have not been verified unless noted.'

Any further statements shall be made only after proper research, investigation and boundary analysis is conducted per 245:15-13-2(a) through (d).