

**DESIGN STANDARDS**  
**SECTION DS 9**  
**SURVEY MONUMENTS**

**DS 9-01 GENERAL:** Survey Monuments shall include Subdivision Boundary, Interior Property Corners, and Street Monuments and shall conform to Section DS-9, Survey Monuments Design Standards and the Standard Drawings.

**DS 9-02 SUBDIVISION BOUNDARY:**

- A.** The boundary survey and final map shall be prepared by or under the direction of a Licensed Land Surveyor or by a registered civil engineer who is authorized to practice land surveying pursuant to the Professional Land Surveyors' Act, who shall find or set a durable monument at each corner, angle point, or beginning and end of curve, in the exterior boundary of the tract.
- B.** The exterior boundary of the tract shall be monumented in accordance with the Subdivision Map Act (latest edition).
  - 1.** “Durable monument” shall consist of one of the following:
    - a.** A rebar not less than 5/8” in diameter, not less than 24” in length, set not less than 24” in the ground. A plastic cap shall be secured over the top of the rebar and set flush or 1 inch below the ground surface.
    - b.** A lead plug not less than 3/4” in length and not less than 3/8” in diameter, set in a hole drilled in Portland cement concrete. A brass tag and pin shall be driven into the lead plug. Brass caps set in a concrete base will be acceptable.
  - 2.** The Registration number of the engineer or the license number of the surveyor shall be permanently indicated on the monument cap or tag. The cap or tag shall also include a hole or marking to designate the survey point.

**DS 9-03 INTERIOR PROPERTY CORNERS:**

- A.** All lot corners and angle points within the boundary of the subdivision shall be marked by a 5/8-inch diameter rebar, 24 inches long or by other approved methods.
- B.** Slashes 1/4 -inch minimum in depth (offset) shall be cut in sidewalks at the prolongation of the property line at the sidewalk or curb.

**DS 9-04 STREET MONUMENTS:** All street monuments shall conform to the Standard Drawing and be located at points shown on the final map.

**A.** In general, street monuments shall be located on the centerline at each angle point, at each point of beginning and ending of a curve or at the point of intersection of the semi-tangents of curves (if accessible) at each point of intersection with all streets and alleys. The City Engineer will consider exceptions to the requirement for locating street monuments provided that the monuments found or to be set are sufficient to enable the survey to be retraced.

**B** Unless conflicts occur with existing utilities, street monuments shall be set on centerline.

**DS 9-05 MONUMENT PROTECTION:** The Design Engineer shall place a note on all Project Plans stating that;

**A.** The Contractor is responsible for the protection of all existing monuments and other survey markers.

**B.** Final Acceptance of the construction shall not be issued until the survey monuments are set in place and have been marked with the survey point and professional license designation as required by the City Standard Specifications and the Standard Drawings.

**DS 9-06 MONUMENT ACCURACY STANDARD:** Monuments set or reset shall meet or exceed the National Map Accuracy Standards.