

MONUMENTS AND CONTROL POINTS REQUIREMENTS

Subdivisions and specific points therein shall be marked as follows:

A) Standard Monuments as shown in the document *City of Round Rock Standards for Monuments, Benchmarks, and Control Points*, which can be found on the City's web page (www.ci.round-rock.tx.us) shall be placed at a minimum of two boundary (P.I.) corners of the subdivision. All monuments shall be designed and installed as indicated in the above referenced document. Also the City may request a copy of the field records and documentation required establishing these monuments. The City may require a Permanent Monument installed as indicated in the *City of Round Rock Standards for Monuments, Benchmarks, and Control Points* document at one (1) subdivision boundary corner (see "D", below).

B) Iron pins or pipes at least one-half (1/2) inch in diameter and at least twenty-four (24) inches in length shall be placed as shown in the document *City of Round Rock Standards for Monuments, Benchmarks, and Control Points* at all block corners, P.C.s and P.T.s, along the dedicated street right-of-way and at all lot corners. These markers are not required to be encased in concrete monuments. Where conditions prevent the placement of iron pins or pipes, other monumentation such as drill holes; chiseled marks in stone, concrete or steel; punch marks; precast bronze or aluminum discs; etc. placed on objects of a stable and permanent nature shall be installed. Where rocks or caliche soils prevent specified lengths of iron pins or pipes, the rod shall be of such length so as to be driven to refusal at such depth where it will remain stable against an applied force from any direction of approximately ten (10) pounds, for a duration in time of at least ten (10) seconds.

C) One (1) permanent benchmark shall be designed and installed as shown in the document *City of Round Rock Standards for Monuments, Benchmarks, and Control Points* and shall be referenced to the "City of Round Rock Horizontal and Vertical Control Network" Monuments. The location must be readily accessible for subsequent use by other surveyors. The Director may waive the requirement for installation of a benchmark for subdivisions smaller than fifty (50) acres when at least two (2) permanent benchmarks are located within one-quarter (1/4) mile of the subdivision boundaries.

D) One (1) Permanent Monument shall be designed and installed at one (1) of the subdivision boundary corners as shown in the document *City of Round Rock Standards for Monuments, Benchmarks, and Control Points* and shall be referenced to the "City of Round Rock Horizontal and Vertical Control Network". Also the City may request a copy of the field records and documentation required establishing this monument. Standard Monuments according to the document *City of Round Rock Standards for Monuments, Benchmarks, and Control Points* shall be installed at all subdivision boundary corners and these monuments shall be rotated to the above mentioned "City of Round Rock Horizontal and Vertical Control Network" and the coordinates for

these corners shall be shown on the plat. Where conditions prevent the placement of "Standard Monuments", other common monumentation such as drill holes; chiseled marks in stone, concrete or steel; punch marks; pre-cast bronze or aluminum discs; etc. placed on object of a stable and permanent nature shall be installed. All required monuments, markers and benchmarks shall be in place prior to the City's acceptance of any street improvements. The "City of Round Rock Horizontal and Vertical Control Network" monument information and locations can be found on the City's web page (www.ci.round-rock.tx.us) at no charge, a hard copy may be viewed at the City's Public Works or Planning Departments, or a CD ROM may be purchased at a cost of \$20.00. The mathematical closure for the subdivision shall also be included with the Final Plat.

E) All required monuments, markers and benchmarks shall be in place prior to the City's acceptance of any street improvements.