

*[Title 10—DEPARTMENT OF]
[NATURAL RESOURCES]
[Division 30—Land Survey]
[Chapter 4—First and Second Order Horizontal and Vertical Control]*

**Title 2—DEPARTMENT OF AGRICULTURE
Division 90—Weights and Measures
Chapter 62— First and Second Order Horizontal and Vertical Control**

[10 CSR 30-4.030] **2 CSR 90-62.030 Accuracy of Horizontal Control**

PURPOSE: This rule prescribes the acceptable accuracy of first and second order control.

(1) The accuracy of a horizontal control station is classified according to constrained and unconstrained, relative accuracy of the distance between *[the]* stations, and the positional accuracy of the station relative to the *[known]* stations **held fixed in the adjustment**. *[The failure to meet any of the three criteria shall cause the station to not meet the classification.] If the requirements for all three criteria are not satisfied, the station shall fail to qualify for the classification.*

(2) First Order Horizontal Control.

(A) The relative accuracy of the distance between directly connected adjacent *[points]* **stations** shall be equal to or less than twelve millimeters (12 mm) for distances equal or less than one kilometer (1 km), and ten parts per million (10 ppm) for distances greater than one kilometer (1 km).

(B) The positional accuracy of a station shall be thirty millimeters (30 mm) in urban areas and sixty millimeters (60 mm) in rural areas.

(3) Second Order Horizontal Control.

(A) The relative accuracy of the distance between directly connected adjacent *[points]* **stations** shall be equal to or less than twenty-five millimeters (25 mm) for distances equal to or less than one kilometer (1 km), and twenty parts per million (20 ppm) for distances greater than one kilometer (1 km).

(B) The positional accuracy of a station shall be sixty millimeters (60 mm) in urban areas and one hundred (100) mm in rural areas.

(4) To fully qualify as a first or second order control station, the station must be accepted and published by the Missouri Department of *[Natural Resources]* **Agriculture** or the *[United States Coast and Geodetic Survey]* **National Geodetic Survey or its successor organization**.

AUTHORITY: section 60.451.3. and 60.461, RSMo 1986. Original rule filed May 3, 1994, effective Dec. 30, 1994.*

**Original authority: 60.451.3, RSMo 1984 and 60.461, RSMo 1984.*

PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate

NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with Missouri Department of Agriculture, Weights, Measures and Consumer Protection Division, Mr. Ronald G. Hayes, Division Director, PO Box 630, Jefferson City, MO 65102. Hand carried copies may be delivered to the Missouri Department of Agriculture, Weights, Measures and Consumer Protection Division, Mr. Ronald G. Hayes, Division Director, 1616 Missouri Blvd., Jefferson City, MO 65109. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.