City of Carroll

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MEMO TO: Mike Pogge-Weaver, City Manager MSP-W

FROM: Randall M. Krauel, Director of Public Works RMK

DATE: June 20, 2017

SUBJECT: Timberline Road and Hidden Valley Road

A request has been received to review the traffic control at the intersection of Timberline Road and Hidden Valley Road. City Code of Ordinances Chapter 61.04 requires that "Traffic control devices shall comply with Standards established by *The Manual on Uniform Traffic Control Devices for Streets and Highways*". The Manual on Uniform Traffic Control Devices (MUTCD) includes the following Guidance on the establishment of intersection control.

". . . The following factors should be considered:

A. Vehicular, bicycle, and pedestrian traffic volumes on all approaches;
B. Number and angle of approaches;
C. Approach speeds;
D. Sight distance available on each approach; and
E. Reported crash experience.

YIELD or STOP signs should be used at an intersection if one or more of the following conditions exist:

A. An intersection of a less important road with a main road where application of the normal right-of-way rule would not be expected to provide reasonable compliance with the law;
B. A street entering a designated through highway or street; and/or
C. An un-signalized intersection in a signalized area.

In addition, the use of YIELD or STOP signs should be considered at the intersection of two minor streets or local roads where the intersection has more than three approaches and where one or more of the following conditions exist:

A. The combined vehicular, bicycle, and pedestrian volume entering the intersection from all approaches averages more than 2000 units per day;
B. The ability to see conflicting traffic on an approach is not sufficient to allow a road user to stop or yield in compliance with the normal right-of-way rule if such stopping or yielding is necessary; and/or
C. Crash records indicate that five or more crashes that involve the failure to yield the right-of-way at the intersection under the normal right-of-way rule have been reported within a 3-year period, or that three or more such crashes have been reported within a 2-year period.

YIELD or STOP signs should not be used for speed control."

The Police Department deployed the speed trailer at two locations in the area of the intersection in late May and early June. One location was on Timberline Road west of the intersection, closer to Main Street, for eastbound/northbound traffic. The second location was on northbound Hidden Valley Road south of Timberline road. A brief summary of the data from the speed trailer is as follows:

Timberline Road

Volume: 350 vpd NB, Varies between weekday and week-end
Speed, Average: 26 mph
Speed, 85th Percentile: 29 mph

Hidden Valley Road

Volume: 300 vpd NB
Speed, Average: 26 mph
Speed, 85th Percentile: 30 mph

Sight-distances on the east and south legs of the intersection are restricted. The City Code sight triangle of 75' is restricted by a right-of-way planting. That could be corrected by removal of the planting from the right-of-way. Stopping sight distance of 115' is restricted by plantings on private property.

No crashes have been reported at the intersection in the past five years.

Considering that both Timberline Road and Hidden Valley Road are both classified local streets, the intersection has three approaches and the above data, the MUTCD guidance for intersection control is not met.

RECOMMENDATION: Mayor and City Council consideration of the request for intersection control at Timberline Road and Hidden Valley Road.

RMK:ds