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March 30, 2010

Mr. Richard I. Harvey, P.E.
El Paso County Development Services Division
2880 International Circle
Colorado Springs, CO 80910

RE: Silverado Ranch
Sight Distance Memorandum
LSC #066510

Dear Mr. Harvey:

In response to a request by El Paso County, LSC has field checked the intersection sight distance at the future access point on Peyton Highway to the Silverado subdivision. The access has been staked in the field and LSC measured the sight distance at the staked location. The following presents our findings.

Based on the criteria in the State Highway Access Code, the access meets sight distance standards for passenger vehicles (cars and pickups) as the sight distance measurement exceeds 550 feet to the north and south. The 550-foot standard is for this type of vehicle. This access would serve a residential neighborhood, therefore the design vehicle for vehicles expected to enter Peyton Highway would be a passenger car/pickup truck.

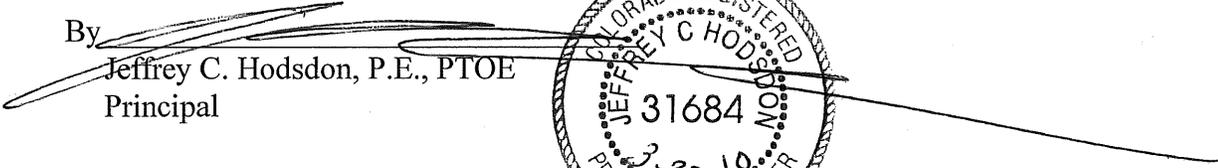
The County expressed the concern that if this internal neighborhood street accessing Peyton Highway becomes a school bus route with school busses traveling on the neighborhood streets then exiting onto Peyton Highway to travel north or south, then the intersection sight distance requirement would be 715 feet. This required sight distance is exceeded both looking north and south when using a higher driver's eye position consistent with that of a school bus driver. Criteria calling out a different driver's eye position for a school bus driver that is higher than the 3.5 feet for passenger vehicle drivers is not specifically provided for in the State Highway Access Code. Therefore, the following criteria has been taken from *Geometric Design of Highways and Streets 2004* published by AASHTO. This criteria states on page 653-654 as part of the "Identification of Sight Obstructions within Sight Triangles:"

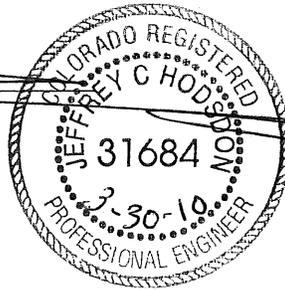
“Where the sight-distance value used in design is based on a single-unit or combination truck as the design vehicle, it is also appropriate to use the eye height of a truck driver in checking sight obstructions. The recommended value of a truck driver’s eye height is 7.6 ft above the roadway surface.”

A school bus is similar to a single-unit truck in this instance.

Sincerely,

LSC TRANSPORTATION CONSULTANTS, INC.

By 
Jeffrey C. Hodsdon, P.E., PTOE
Principal



JCH: bjwb

cc: John Schwab