

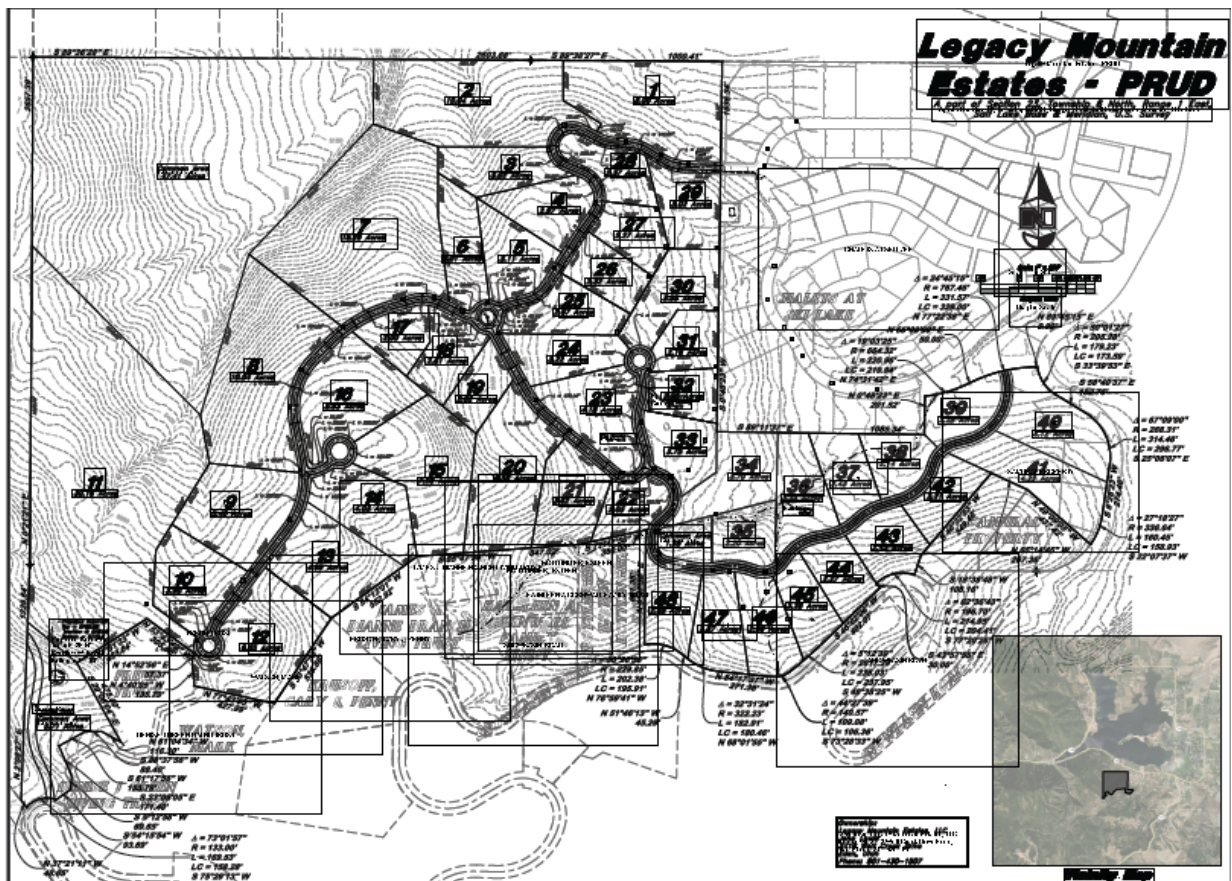
August 5, 2021



RE: Legacy Mountain Trip Memo – Old Snow Basin Road and SR 39 Weber County, UT

The following is a trip generation memo for a proposed 48 single family home development of Legacy Mountain development located along Old Snowbasin Road in Weber County, UT. Figure 1 identifies the site location and Figure 2 shows the proposed site layout. The site accesses the Old Snow Basin Road and the traffic will access SR 39. The current access to Old Snow Basin Road includes an eastbound right turn lane but NOT a left turn lane. A left turn lane on a 50 MPH roadway is always prudent and based on the UDOT category of roadway a westbound left turn lane is likely already warranted and the new development traffic will add to this current need.

Figure 1: Site Location



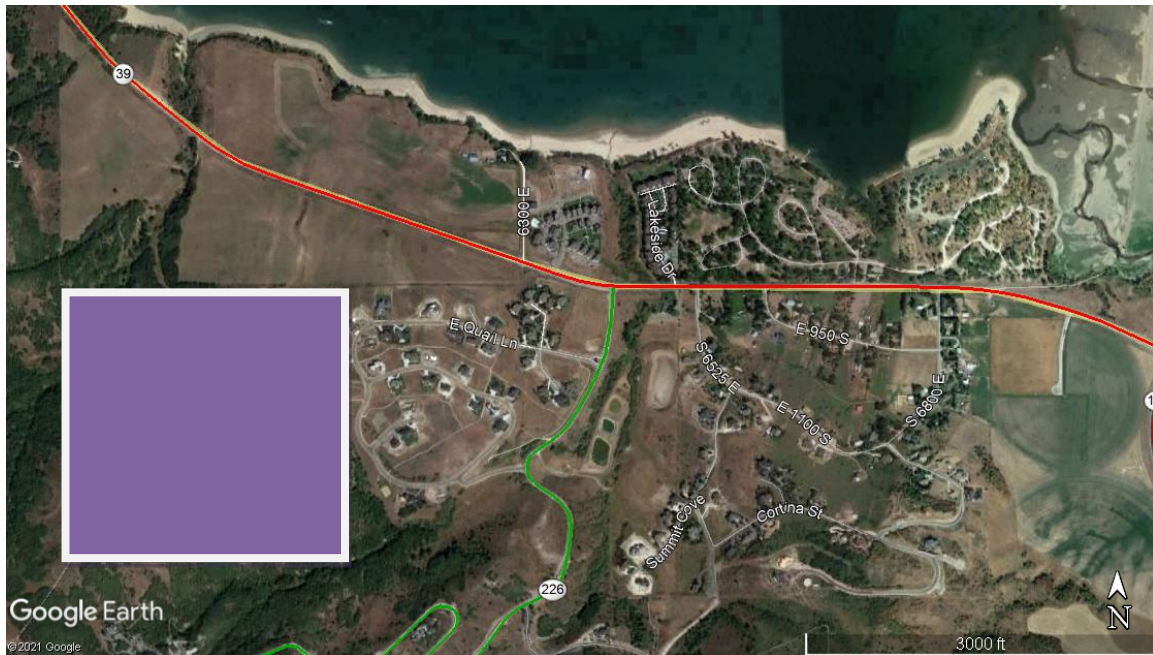


Figure 2: Proposed Site

Trip Generation

Trip generation for the site is projected using the Institute of Transportation Engineers (ITE) *Trip Generation Manual*. Based on the land use assumptions and size of the building, the projected traffic generated by the site is determined.

Table 1: Site Trip Generation

ITE 10th Ed	Size	Land Use	Trip Rate			Trips		
			AM	PM	Daily	AM	PM	Daily
SFH	48	210	0.74	0.99	9.44	35.5	47.5	453.1

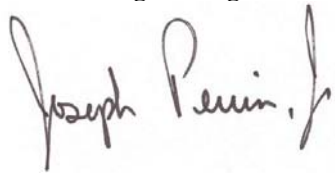
The results indicate that the proposed development is projected to generate 36 AM peak, 48 PM peak trips and 453 daily trips.

Old Snow Basin Road is on FAR 3469 which is a two lane road and has a UDOT 2019 average daily traffic rate of 350 trips a day. Two lane rural roadway has a capacity of 12,000 ADT. Therefore, the roadway has the capacity to accommodate the proposed traffic. The key intersection is Old Snow Basin Road and SR 39. Based on the current usage and speed of SR 39, a separate left and right turn lane volume thresholds from UDOT are likely met.

Please let me know if you have any questions.

Sincerely,

A-Trans Engineering

A handwritten signature in dark ink, reading "Joseph Perrin, J." in a cursive style.

Joseph Perrin, PhD, PE, PTOE
Principal