

estimated delay calculations

Existing Conditions - no Peek Road Overpass

	Off Peak delay	Peak delay	Total on SH99 delay	Total on Peek Road delay	Total at intersection delay
estimated delay per vehicle	20 sec	40 sec		30 sec	
traffic	35275 VPD	35276 VPD	70551 VPD	15000 VPD	85551 VPD
	delay	delay	delay	delay	delay
	196.0 hours/day	392.0 hours/day	587.9 hours/day	125.0 hours/day	712.9 hours/day pre improvement

Proposed Conditions - with Peek Road Overpass

	Off Peak delay	Peak delay	Total on SH99 delay	Total on Peek Road delay	Total at intersection delay
estimated delay per vehicle	15 sec *	30 sec *		20 sec *	
traffic	8819 VPD **	8819 VPD **	70551 VPD	15000 VPD	32638 VPD
	delay	delay	delay	delay	delay
	36.7 hours/day	73.5 hours/day	110.2 hours/day	83.3 hours/day	193.6 hours/day post improvement

* delay times reduced as the total volume in the intersection will reduce

** Total volume remains 70551. assume 25% of traffic will traverse intersection, or 12.5% peak and off-peak. 75% will use overpass.

2018 Average Peak Traffic volume = SH99 + Peek Road = 35275 + 7500 = 42775