SH 82 Maroon Creek Roundabout BRT Station Study

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Study Attributes

- Began in January 2019

- Outreach to Stakeholders
  - CDOT
  - Pitkin County
  - City of Aspen

- 8 alternatives total

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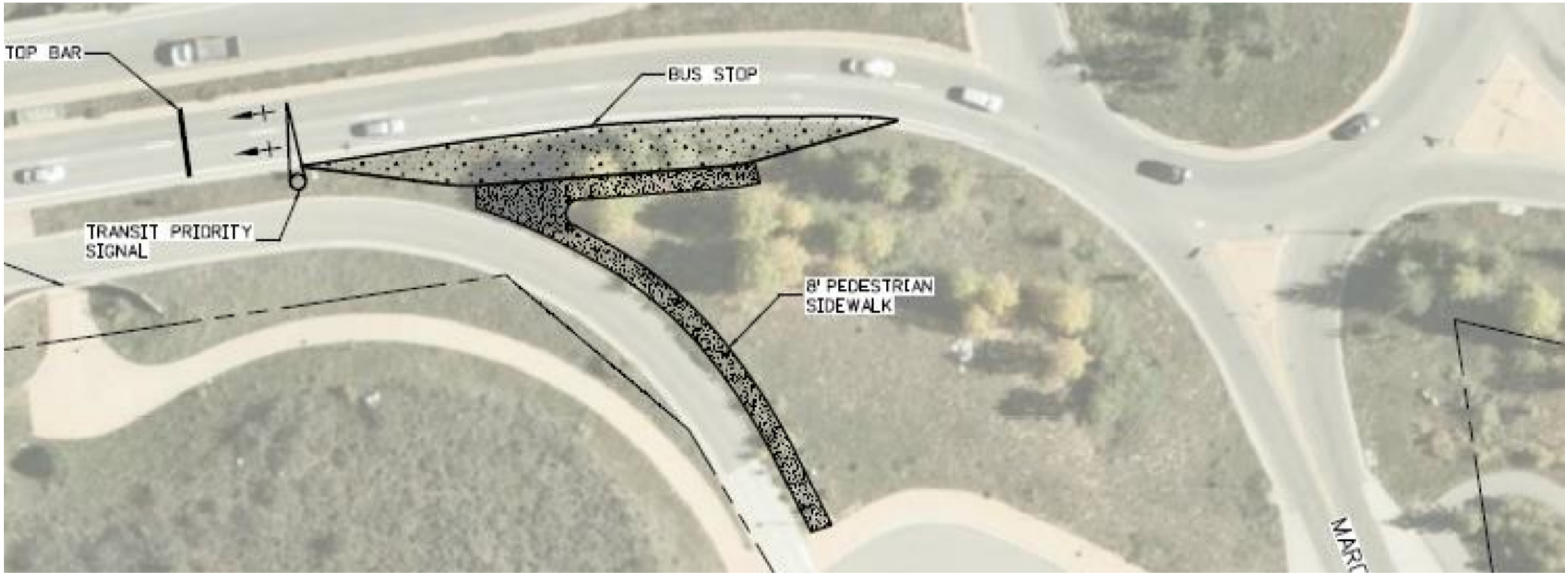
Alt. 1, Ped Crossing and Signal on Maroon Creek Road

Alt. 2-BRT Stop Before Roundabout

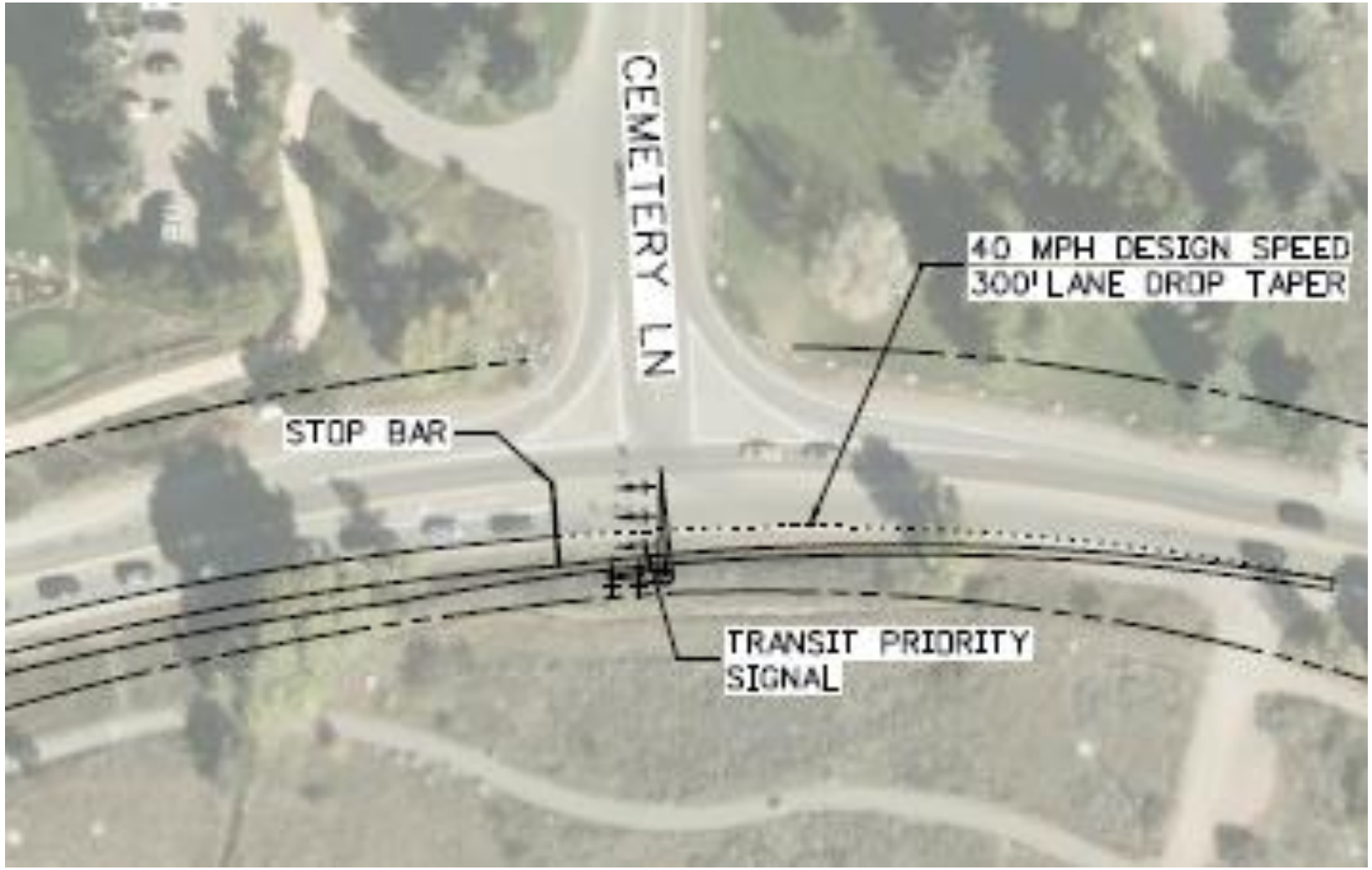
Alt. 3-BRT Stop near Roundabout with Transit Priority Signal



Alt. 4-BRT Stop after Roundabout

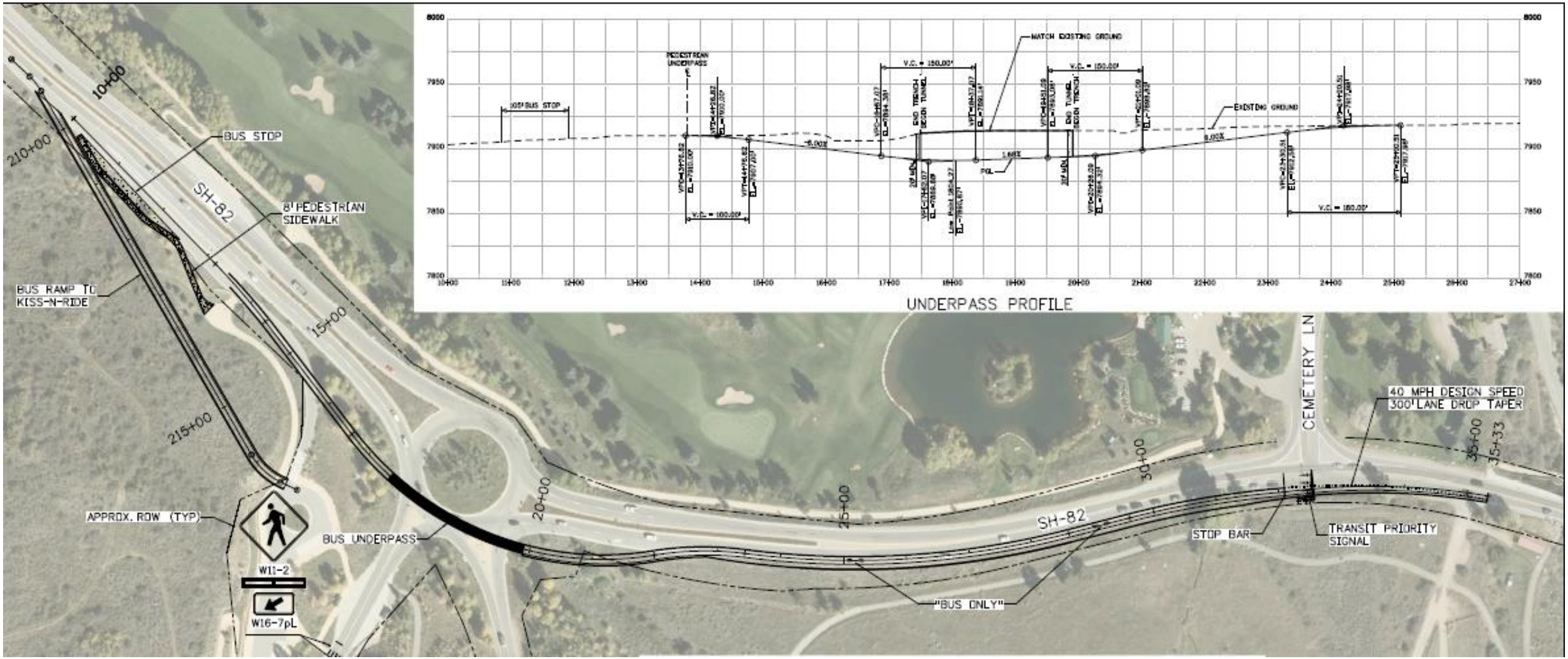
Alt 5-Stop after Roundabout w/Bus Lane

Alt. 5 – Transit PrioritySignal at SH 82/Cemetery Lane

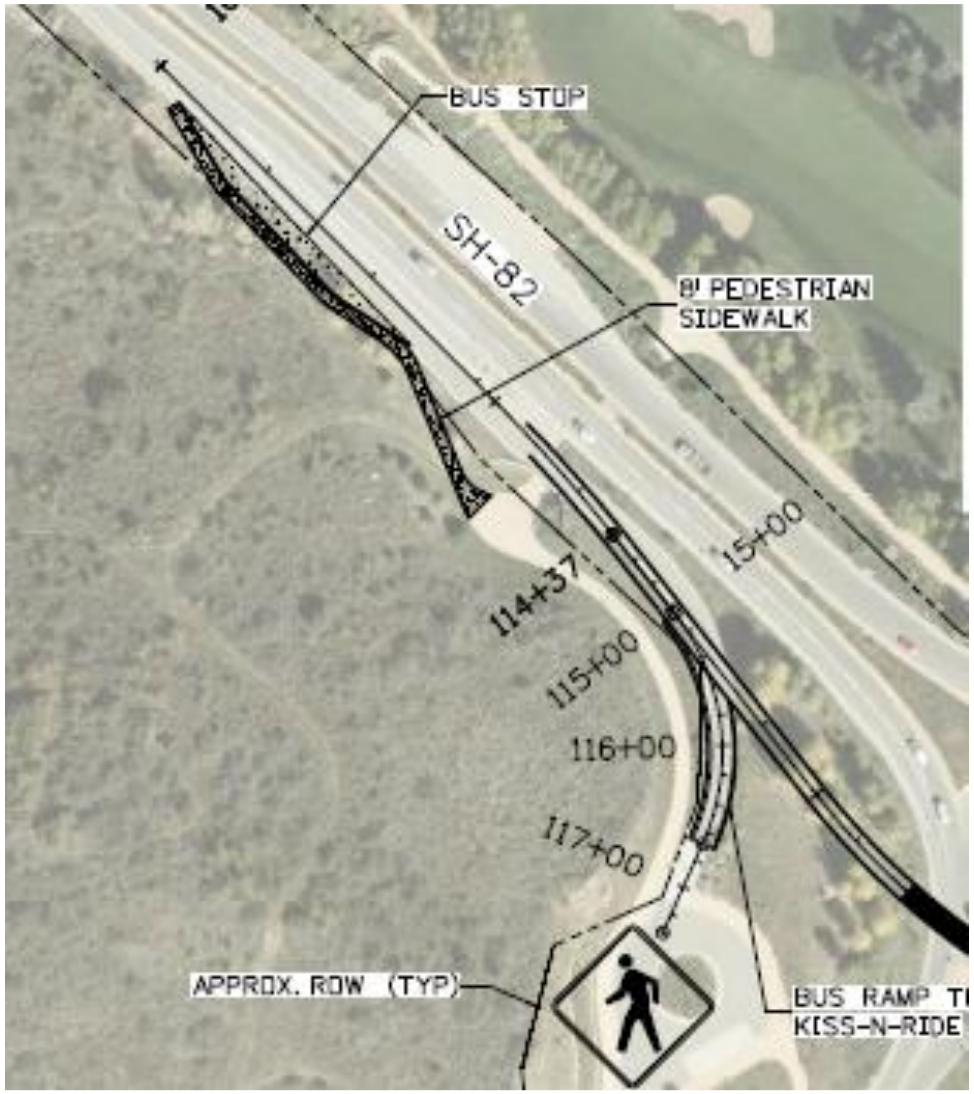


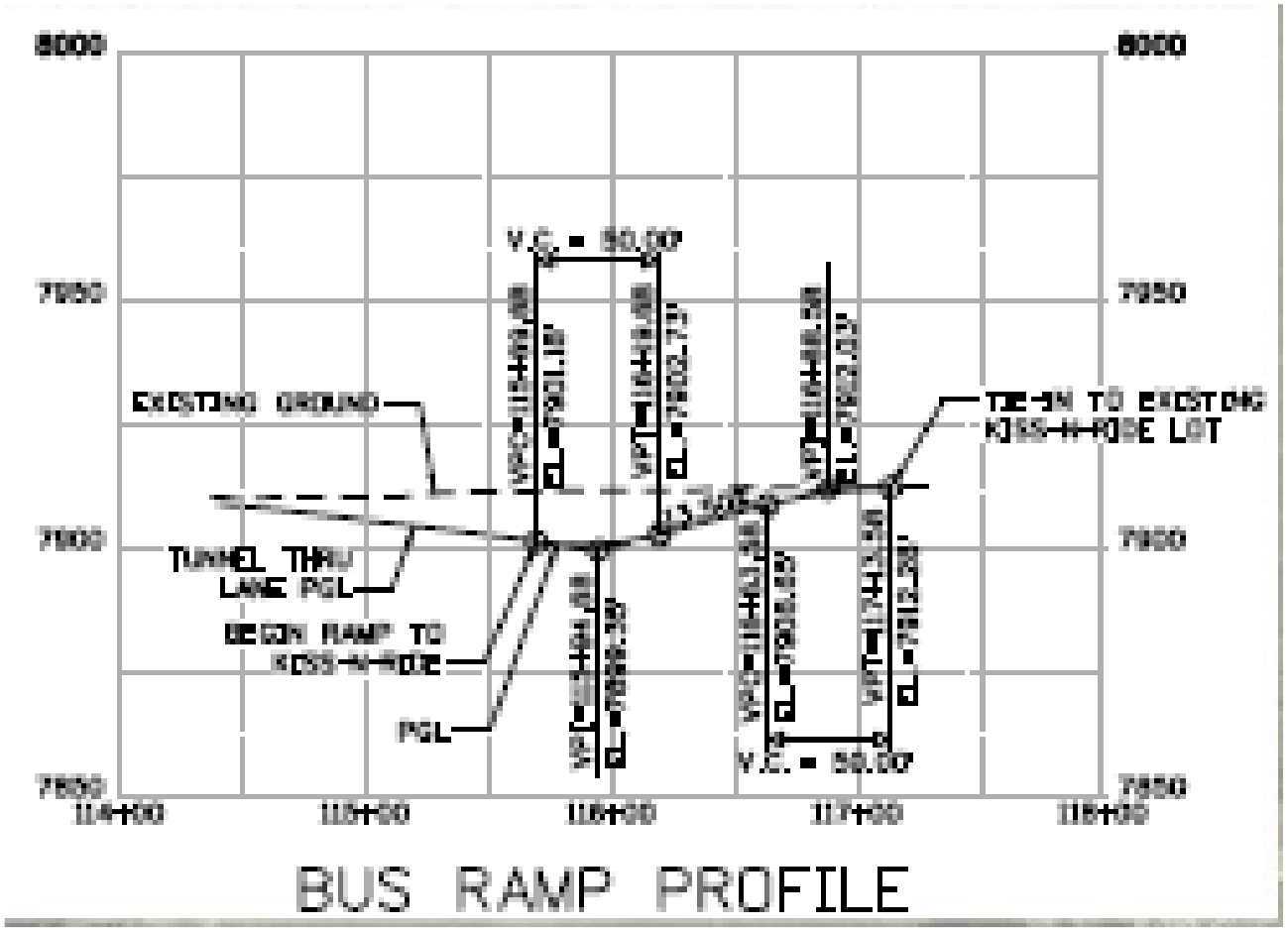
Alt. 6-Dedicated Bus Lane after Roundabout

Alt. 7-Bus Underpass



Alt. 7A-Bus Underpass w/minimal Open Space Impacts

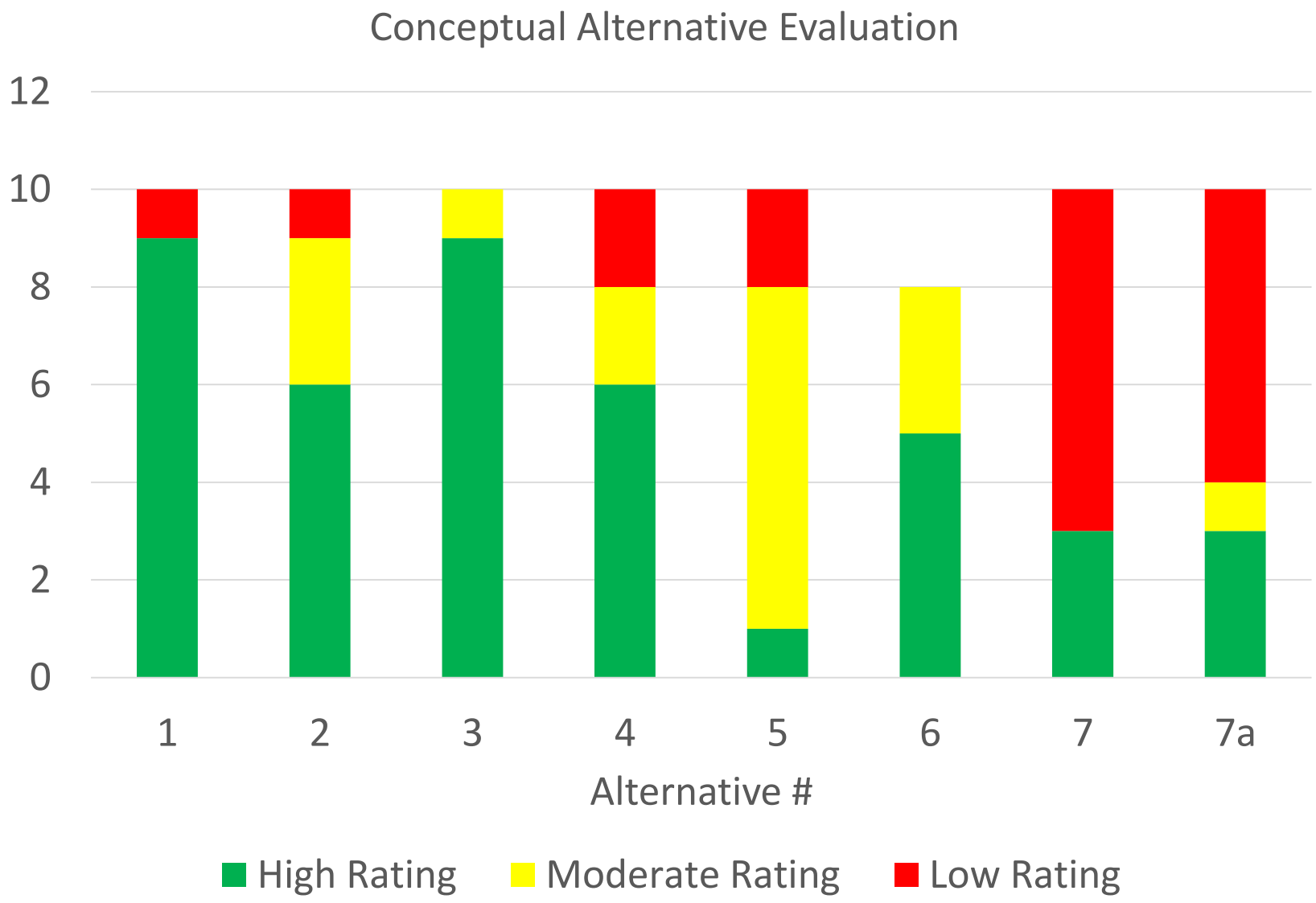




Alternative Evaluation

		ROW				Traffic impacts during construction			Operational Efficiency		
Alternative #	Title	Amount of take, easement (acres)	Cost	Financing Opportunities	Duration to construct/phasing	Cars	Buses	Safety	Walking distance	Ease of transfers	BRT travel time addition (sec)
1	Existing configuration with traffic signal at kiss-n-ride	None	$571,811	++	Quick	Minimal	None	+	No change	++++	47
2	Up-valley bus stop before roundabout	0.2	$2,148,546	++	Medium	Minimal	Minimal	+	1120'	++	47
3	Bus stop near roundabout with transit priority signal	None	$2,241,955	++	Medium	Minimal	Minimal	+	415'	+++	17
4	Up-valley bus stop after roundabout	0.12	$2,098,651	++	Medium	Minimal	Minimal	+	1065'	+	45
5	Up-valley bus stop with dedicated bus lane	0.12	$2,918,122	+	Medium+	Moderate	Moderate	+	1065'	+	37
6	Dedicated bus lane after roundabout	None	$1,008,017	++	Medium+	Moderate	Moderate	+	N/A	N/A	-8
7	Up-valley bus underpass	1.28	$13,464,020	-	Longer	Substantial	Substantial	+	790'	+++	37
7a	Up-valley bus underpass	0.19	$12,812,832	-	Longer	Substantial	Substantial	+	790'	+++	37

Alternative Evaluation



Next Steps

1. Additional Studies
   a) Develop traffic model to evaluate mainline SH 82 delays for some alternatives.
   b) Conduct intersection study at Cemetery Lane.
   c) Develop further design suggestions from stakeholders.

2. Evaluate service frequencies and connectivity.

3. Possible EOTC presentation in June.

Questions
&
Discussion

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