

Fern Valley Interchange: Westside Design Options.

| | Design Features | Traffic Operations | Pros | Cons |
|---|---|--|---|--|
| Westside Options PBA | <ul style="list-style-type: none"> • | <ul style="list-style-type: none"> • Meets capacity standards at all key locations for the 20-year design period (using current comprehensive plan projections). • Does not allow future growth beyond 20 years – due to the v/c at the OR 99/Fern Valley Road intersection. (If future projects improve operations on OR 99, there would be an opportunity for future growth. The amount of growth would depend on the interchange capacity). • Queuing does not interfere with the interchange or Phoenix downtown couplet operations in the 20-year planning period. | <ul style="list-style-type: none"> • Least right-of-way acquisition • Good business access • Good access for Bear Lake/Coleman Creek Estates • Minimal environmental impacts (only one Bear Creek crossing) • Least out-of-direction travel • Stays on existing alignment | <ul style="list-style-type: none"> • Acute southbound left turn from OR 99 to Bolz Rd. • Poor signal spacing between interchange and Mullen • Reduced bike/pedestrian facilities (OR 99) • Long vehicle queues on OR99 and Fern Valley Road • Does NOT allow for future growth beyond 20 years |
| Original Table 1 Westside (Bolz Connection)* Signal can be at Cheryl <u>OR</u> Signal can be at Fern Valley Road | <ul style="list-style-type: none"> • | <p>Same as PBA Westside Option, except:</p> <ul style="list-style-type: none"> • Allows for future growth beyond 20 years. • Increases signal spacing on OR 99 (Cheryl option) | <ul style="list-style-type: none"> • Shorter queues when than PBA west • Lower v/c ratios than PBA west • Allows for future growth beyond 20 years • Increased signal spacing (Cheryl option) | <ul style="list-style-type: none"> • Original Fern Valley Road is dead end (Cheryl option) • Some out of direction travel for businesses and residents on west side • Increased environmental impacts • Access issue for Coleman Estates (Cheryl option) • Requires new bridge across Coleman Creek (Cheryl option) |

* Note: this alternative has the same cross-section as PBA west.