

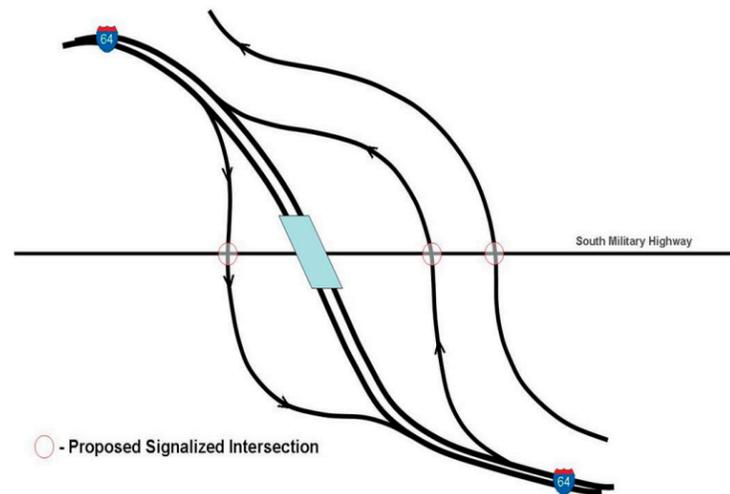
Pleasant Grove Parkway Interchange

It should be noted that the alternatives evaluated took into consideration those alternatives associated with the Pleasant Grove Parkway Feasibility Study. The Pleasant Grove Parkway is a facility intended to relieve congestion along I-64, Battlefield Boulevard, and Dominion Boulevard. This is achieved by providing an alternative means of access to areas of southern Chesapeake and Virginia Beach.

One of the interchange alternatives presented in the Pleasant Grove Parkway Feasibility Study envisioned tying into the I-64/Cavalier Boulevard interchange (as seen below). Both alternatives evaluated for the South Military Highway are consistent with the ability to tie into this proposed configuration and do not contradict those options already presented to the City of Chesapeake.

The City of Chesapeake has long envisioned a facility that would relieve traffic congestion along I-64 between I-664 and Greenbriar Parkway. It is the purpose of this study to not preclude the PGP but we are considering it and the Interchange options presented as a part of that study and within this Plan. The plan does not endorse any specific alternative identified in the Feasibility Study, but this Plan did not want to preclude those efforts.

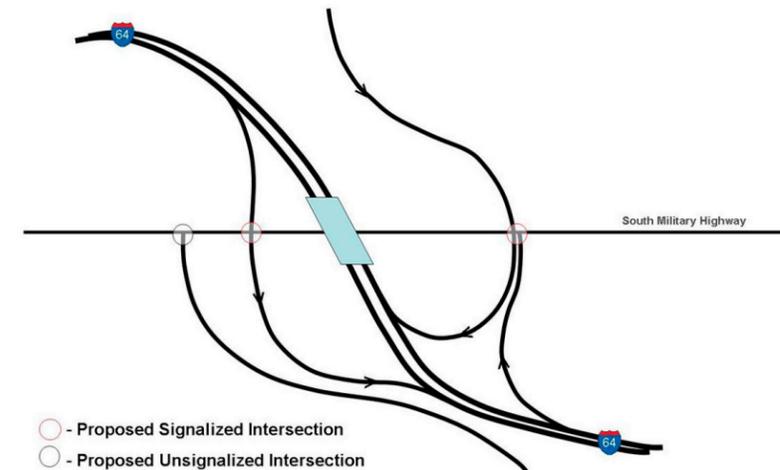
This alternative identified below was presented as a part of the Pleasant Grove Parkway Feasibility Study and represents the one most consistent with those options presented for the South Military Highway study. Another option is under consideration but based on its location was not considered as a part of this analysis.



Alternative 1

Alternative 1 aligns both the northbound and southbound on- and off-ramps at two conventional signalized intersections. This alternative maintains the signal at Cavalier Boulevard and provides a direct off-ramp from I-64 to South Military Highway. Additionally, this option considers a split along the off-ramp that will allow for access to the proposed expansion of the Industrial Park to the south of South Military Highway. An additional signal is required under this scenario at a proposed new intersection located immediately east of the existing South Military Highway/Cavalier Boulevard intersection. With coordinated signals and optimized timings, this additional signal should not adversely impact the capacity of South Military Highway, since a majority of the traffic in this area is destined for I-64.

This conventional configuration creates a known travel pattern for the general public under signalized conditions, which will greatly improve the safety aspects as well as maintain access to the existing Cavalier Industrial Park along with direct access to the expansion of the Industrial Park.



Alternative 2

Similar to Alternative 1, this option aligns the off- and on-ramps west of I-64 overpass. To the east, the existing off-ramp configuration is maintained to provide direct access into Cavalier Industrial Park. Under this scenario, the on-ramp to I-64 is converted to a loop that is located at the existing signalized intersection. While this creates a heavier demand at this location with access on and off of I-64, it eliminates the need for a third signalized intersection. By eliminating the on-ramp to the east of I-64, additional land is available in the northeast quadrant of this interchange.

This alternative captures land for the expansion of the existing Cavalier Industrial Park, provides access to the proposed expansion of the Park to the south, and improves ingress/egress through a signalized intersection at the front door to the Industrial Park.