

# *Evaluating Express Lanes Options*



***Michael S. Kimbrel***  
***HRTPO Deputy Executive Director***

***July 18, 2019***

# Evaluation Methodology

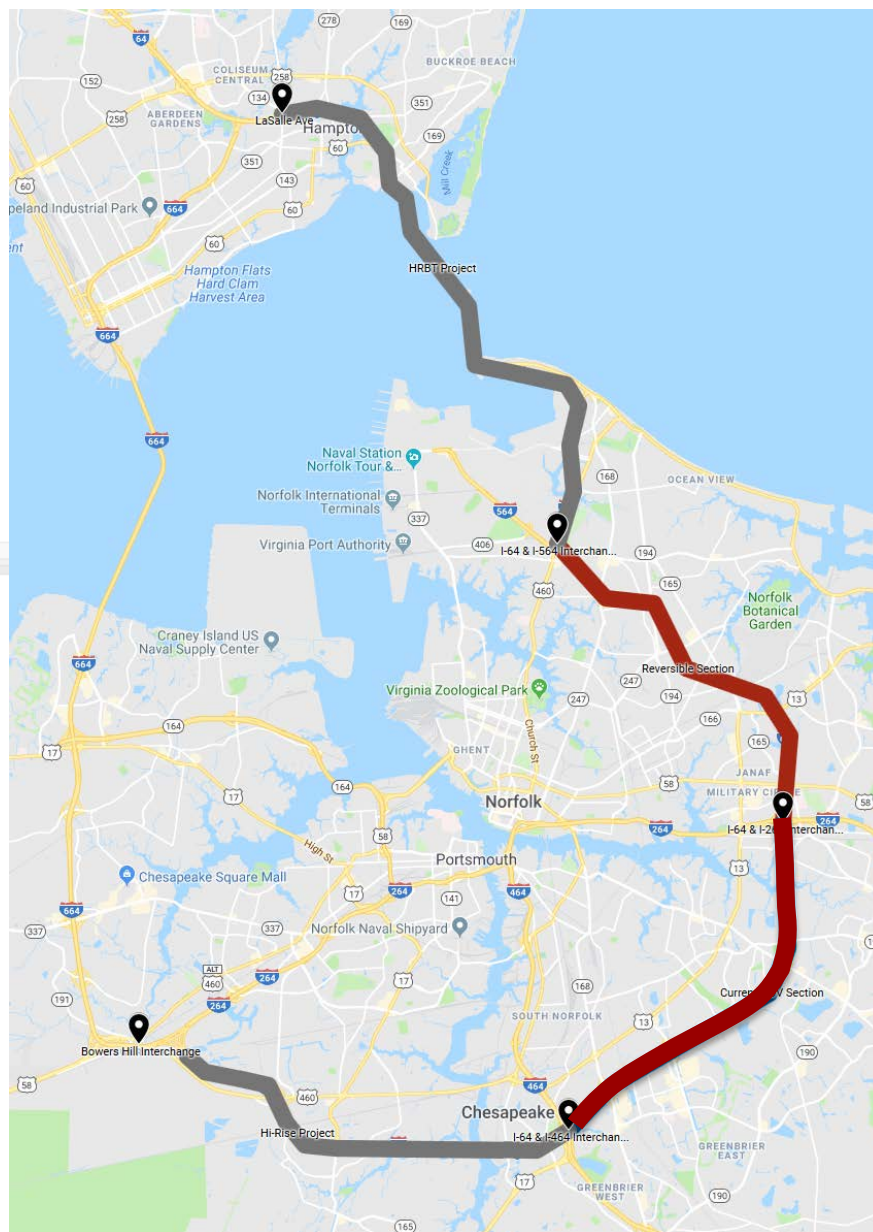
- *Use new HRTPO Travel Demand Model*
- *Test two cases for 2045 traffic conditions*
  - *Baseline – All new capacity at HRBT and High-Rise Bridge projects is General Purpose (GP) lanes*
  - *Managed Lanes Network*
- *Cross-coordinate with VDOT staff*
  - *HRTPO staff – macro modeling*
  - *VDOT staff – micro modeling*

# Baseline – No New Managed Lanes

- *All General Purpose lanes at HRBT and High-Rise Bridge projects*
- *Current Managed Lanes remain Managed Lanes*

## Legend

- *All GP Lanes*
- *HOV Lanes*
- *HOT Lanes*

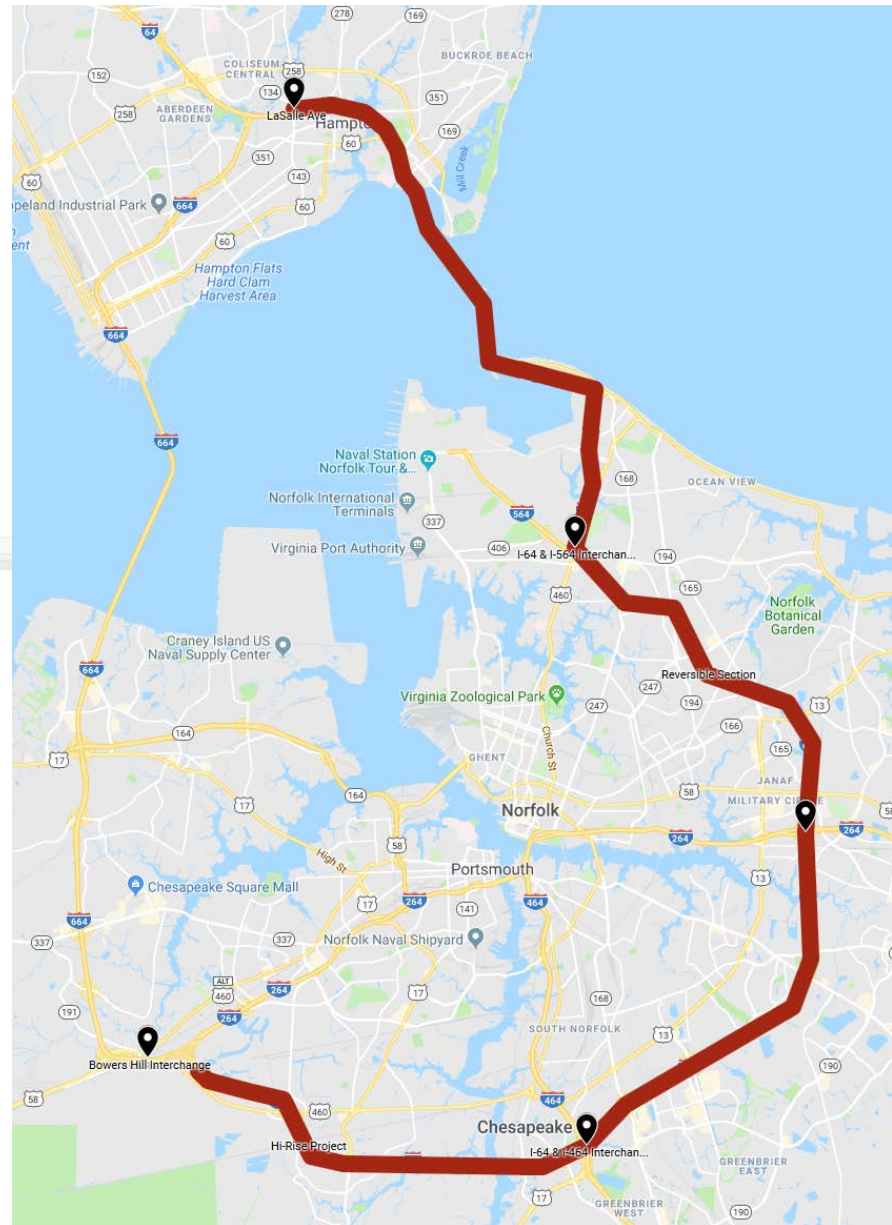


# Managed Lanes Network

- *HOT-2 lanes on I-64 from HRBT project to Bowers Hill*
- *Includes HOT-2 Shoulder Lane adjacent to Reversible HOT Lanes (allow for 2-way HOT operation)*

## Legend

- *HOT Lanes*



# Assumptions

	<b>Baseline</b> <i>(No New Managed Lanes)</i>	<b>Managed Lanes</b> <b>Network</b>
<i>Western terminus of HOT operations</i>	--	<i>LaSalle Ave ?</i>
<i>Part-time Shoulder GP Lanes between LaSalle Ave and Settlers Landing Rd</i> • <i>Cost Estimate: ~ \$300 M</i>	--	<i>Evaluate</i>
<i>Direct ramps connecting HRBT HOT lanes to I-564 HOV lanes</i> • <i>Cost Estimate: ~ \$120 M</i>	--	<i>Evaluate</i>
<i>Part-time Shoulder HOT Lanes parallel to Reversible Lanes (allow for 2-way HOT)</i> • <i>Cost Estimate: ~ \$300 M</i>	--	<i>Yes</i>
<i>Eastern terminus of HOT operations</i>	--	<i>Bowers Hill</i>

# Presenting Results of Evaluation

## EXAMPLE

*Travel Time: LaSalle Avenue to I-564  
2045 AM Peak Period*

<i>Test Case</i>		<i>Minutes</i>
<i>No-Build</i>	<i>Current Travel Time</i>	<i>XX</i>
<i>Baseline</i>	<i>GP Lanes &amp; Existing Managed Lanes</i>	<i>XX</i>
<i>Managed Lanes Network</i>	<i>HOT-2 Lanes</i>	<i>XX</i>
	<i>GP Lanes</i>	<i>XX</i>

# Next Steps

- ***September 19, 2019 – HRTPO and VDOT present preliminary results at Joint HRTAC-HRTPO Boards meeting***
- ***October 17, 2019 – HRTPO and VDOT present final results to HRTPO Board***
- ***November 21, 2019 – HRTPO Board meeting***
- ***December 19, 2019 – HRTAC meeting***