

April 24, 2014

Agenda



AGENDA

Rt. 29 Advisory Panel Meeting 3 April 24, 2014 1:00 pm

Virginia Center for Transportation Innovation and Research 530 Edgemont Road Charlottesville, Virginia 22903

1.	Introductions Advisory Panel Members	5 minutes
2.	Review Public Comments Philip Shucet	5 minutes
3.	Review Components of Four Concepts Under Review Philip Shucet Advisory Panel	45 minutes
4.	Solution(s) Carried Forward to Final Technical Review Advisory Panel	45 minutes
5.	Final Meeting May 8 Philip Shucet	15 minutes
6.	Wrap up Advisory Panel Philip Shucet	5 minutes



April 24, 2014

Comparison of Concepts



April 22, 2014

To: Route 29 Advisory Panel Members

From: Philip Shucet

Subject: Important Information to Accompany Route 29 Solution Posters

Panel Members,

This memorandum accompanies four posters, each containing pertinent information for each of the four solution concepts currently under consideration: Median Throughway Low-Build, Median Throughway High-Build, Parallel Roads Low-Build and Parallel Roads High-Build.

Each poster contains written information and information depicted in graphic form.

The written information contains a list of the concept elements currently included in VDOT's Six-Year Improvement Program (SYIP), the cost-to-complete the SYIP projects and the indicative cost range to fund additional concept components.

The graphics contain representative typical sections at various locations along Route 29, and each graphic indicates an existing view and a representative future view of typical sections at selected locations. Each typical section indicates existing right-of-way widths in addition to anticipated future right-of-way widths.

Because right-of-way widths are important, and because we did not have this information available for you on April 10, the technical team devoted considerable time to this effort over the past week. Note that for the four concept solutions under study, each future scenario is expected to remain within existing right-of-way, including areas where grade-separated intersections could be constructed.

SPECIAL NOTE REGARDING GRADE-SEPARATED INTERSECTIONS: The grade-separated intersections provide full movements in every direction. Also, please note that the depressed typical section for grade-separated intersections for both the Median Throughway High-Build and Parallel Roads High-Build only occur in the immediate vicinity of the grade-separated intersection. The roadway on either side of the grade-separated intersection would not be depressed and would return to same grade as existing Route 29, as indicated in the additional typical sections shown on each poster.

If you share the posters with your colleagues or constituents, I respectfully ask that you also share this memorandum to avoid or minimize misunderstandings.



Route 29 Solutions: Median Throughway Low-Build Concept Existing Route 29 - North of River Airport Rd RW RW Proffit Rd Northern Project Programmed Route 29 Widening - Polo Grounds Rd to Limit Town Center Dr. (Add 1 Lane within Existing RW) RW RW 120' - 130' Polo Grounds Rd Existing Route 29 - South of River RW RW 155' – 165' **Concept: Median Throughway Low-Build Concept** Through Through Local Local Lane Lanes RW RW 155' - 165' Hillsdale Dr Ext. 29/250 Byp Southern **Project** J. Warner 29 Limit Pkwy McIntire Rd **Concept Elements:** Interchange **Under Construction Programmed Projects** to Complete Best Buy Ramp Hillsdale Dr Extension Route 29 Widening, Polo Grounds to Town Center Dr Cost • Adaptive Signal Time Improvements **Additional Concept Components** Eliminate Left Turns at Select Intersections Cost to Fund \$70-\$100 M Hydraulic Rd, Greenbrier Rd, Rio Rd, Hilton Heights: **Quadrant Movement for Left Turns** Express Bus Service with Park & Ride Lots **Implement Access Management Treatments** • Bicycle & Pedestrian Improvements **LEGEND:** Best Buy Ramp **Evaluate/Construct Quadrant Intersections** 1 Miles ■ ■ Six-Year Improvement Plan (SYIP) Project

Route 29 Solutions: Median Throughway High-Build Concept **Existing Route 29 – North of River** Airport Rd RW RW Proffit Rd 120' - 130' Northern **Project** Programmed Route 29 Widening – Polo Grounds Rd to Limit Town Center Dr. (Add 1 Lane within Existing RW) RW RW 120' - 130' Polo Grounds Rd Existing Route 29 - South of River RW RW 155' - 165' **Concept: At-Grade Through Lanes Between Grade-Separated Intersections** Through Through Local Local Lanes Lanes Lanes Lanes RW RW 155' - 165' Hillsdale Dr Ext. 29/250 Byp Southern **Project Concept Elements:** J. Warner Limit Pkwy **Under Construction** McIntire Rd Interchange & John Warner Pkwy McIntire Rd **Programmed Projects** Interchange Best Buy Ramp Hillsdale Dr Extension \$ t Route 29 Widening, Polo Grounds to Town Center Dr **Existing Route 29 – South of River** • Adaptive Signal Time Improvements **Additional Concept Components** Reconstruct Route 29/250 Interchange (Requires RWRW Changes to Best Buy Ramp Project) \$250 – \$350 M Cost to Fund Reconfigure Route 29 to Four Separated Through Lanes (2 in Each Direction) and Four Local Lanes (2 in Each Direction); All within Current RW. Grade-Separate Hydraulic Rd, Greenbrier Rd, Rio Rd, 155' - 165' Hilton Heights Intersections **Concept: Depressed Express Lanes at Each** Express Bus Service with Park & Ride Lots **Grade-Separated Intersection Implement Access Management Treatments Through Lanes** RW **Local Lanes Local Lanes** • Bicycle & Pedestrian Improvements **LEGEND:** Additional 29/250 Interchange Improvements **Grade-Separated Intersections** 1 Miles Six-Year Improvement Plan (SYIP) Project 155' – 165'

Route 29 Solutions: Parallel Roads Low-Build Concept Existing Route 29 – North of River Airport Rd RW RW Proffit Rd 120' - 130' Northern **Project** Programmed Route 29 Widening – Polo Grounds Rd to Limit Berkmar Town Center Dr. (Add 1 Lane within Existing RW) Drive Ext. RW RW 120' - 130'Polo Grounds Rd Existing Route 29 - South of River RW RW 155' - 165' **Concept: Parallel Roads Low-Build** (No Change from Existing) RW RW155' - 165' Hillsdale Dr Ext. 29/250 Byp Southern **Project** J. Warner 29 Limit Pkwy McIntire Rd Interchange **Concept Elements:** Under Construction • McIntire Rd Interchange & John Warner Pkwy **Programmed Projects** Cost to Complete Best Buy Ramp Hillsdale Dr Extension Route 29 Widening, Polo Grounds to Town Center Dr • Adaptive Signal Time Improvements **Additional Concept Components** \$100 - \$200 M Cost to Fund Berkmar Dr Extension, from Hilton Heights to Town Express Bus Service with Park & Ride Lots **Implement Access Management Treatments** Bicycle & Pedestrian Improvements **LEGEND: Best Buy Ramp** ■ ■ Six-Year Improvement Plan (SYIP) Project 1 Miles ■ ■ Berkmar Dr. Extension

Route 29 Solutions: Parallel Roads High-Build Concept Existing Route 29 – North of River Airport Rd RW RW Proffit Rd 120' - 130' Northern **Project** Programmed Route 29 Widening - Polo Grounds Rd to Limit Berkmar Town Center Dr. (Add 1 Lane within Existing RW) Drive Ext. RW RW 120' - 130'Polo Grounds Rd Existing Route 29 - South of River RW RW 155' - 165' **Concept: Parallel Roads High-Build** (No Change from Existing) RW RW 155' - 165' Hillsdale Dr Ext. 29/250 Byp Southern **Project** Limit J. Warner **Concept Elements:** Pkwy **Under Construction** McIntire Rd Interchange & John Warner Pkwy McIntire Rd **Programmed Projects** Interchange Best Buy Ramp Hillsdale Dr Extension \$43 Cost to Co Route 29 Widening, Polo Grounds to Town Center Dr Existing Route 29 – South of River Adaptive Signal Time Improvements **Additional Concept Components** Reconstruct Route 29/250 Interchange (Requires RW RWChanges to Best Buy Ramp Project) \$250 - \$350 M Grade-Separate Hydraulic Rd, Greenbrier Rd, Rio Rd, Cost to Fund Hilton Heights Intersections Berkmar Extension, from Hilton Heights to Town 155' - 165' Center Dr Express Bus Service with Park & Ride Lots **Concept: Grade-Separated Intersections Implement Access Management Treatments** Local **Bicycle & Pedestrian Improvements** Local RW RWLane **LEGEND:** Through Through Additional 29/250 Interchange Improvements Lanes Lanes Local Road Grade-Separated Intersection ■ ■ Six-Year Improvement Plan (SYIP) Project 0.5 1 Miles 155' – 165' ■ ■ Berkmar Dr. Extension

Route 29 Solutions: Description of Improvement Elements by Solution



Description	Costs (in	Costs (in Millions)		
Passenger Rail:				
(Increase Passenger rail service on the corridor).				
Six Year Improvement Plan Projects	Current	Cost to		
	Allocations	complete		
* McIntire Rd. Interchange and McIntire Rd. Ext. to John Warner Parkway;	\$34	\$0		
* Hillsdale Dr. Ext.;	\$14	\$16		
* 29 N. Widening from Polo Grounds Rd. to Town Center Dr.;	\$33	\$18		
* Adaptive Signal Time Improvements;	\$1	\$3		
* Route 29 / 250 Interchange improvements (Best Buy Project);	\$11	\$6		
Total:	\$93	\$43		
Concepts Components				
* Improve rail infrastructure along the corridor, adding another train (to accommodate up to 479 passengers) between Lynchburg and DC. Assumes annual operating cost of \$2 M. (See Note)		\$100-\$125		
Cost:		\$100-\$125		

Note: This scenario can be combined with any of the other scenarios.

4/23/2014 Page 1



April 24, 2014

Inventory of Concept Elements

Route 29 Solutions:

Inventory of Concept Elements



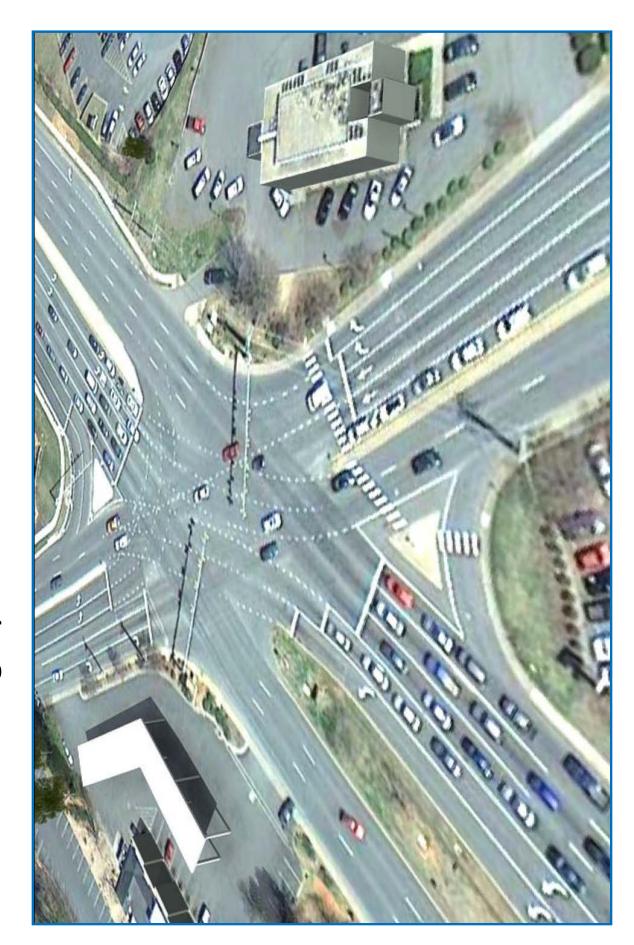
Status	Concept Elements	Median Throughway Low-Build	Median Throughway High-Build	Parallel Roads Low-Build	Parallel Roads High-Build
Under Construction	McIntire Rd. Interchange and McIntire Rd. Ext. to John Warner Parkway	•	•	•	•
	Best Buy Ramp	•	•	•	•
Programmed	Hillsdale Dr. Extension	•	•	•	•
Projects	Route 29 N. Widening, Polo Grounds Rd. to Town Center Dr.	•	•	•	•
	Adaptive Signal Time Improvements	•	•	•	•
	Eliminate left turns at select intersections	•			
	Hydraulic Rd, Greenbrier Rd, Rio Rd, Hilton Heights: Quadrant Movement for Left Turns	•			
	Grade-Separate Hydraulic Rd., Greenbrier Rd., Rio Rd., and Hilton Heights Intersections		•		•
A 1 150 1	Reconstruct the Route 29/250 Interchange (Requires Changes to Best Buy Ramp Project)		•		•
Additional Concept Components	Reconfigure Route 29 to Four Separated Express Lanes (2 in Each Direction) and Four Local Lanes (2 in Each Direction); All within Current RW.		•		
	Berkmar Dr Extension, from Hilton Heights to Town Center Dr.			•	•
	Express Bus Services to Include Strategically Added Park and Ride Lots	•	•	•	•
	Implement Access Management Treatments	•	•	•	•
	Provide Bicycle and Pedestrian Improvements, Where Possible	•	•	•	•



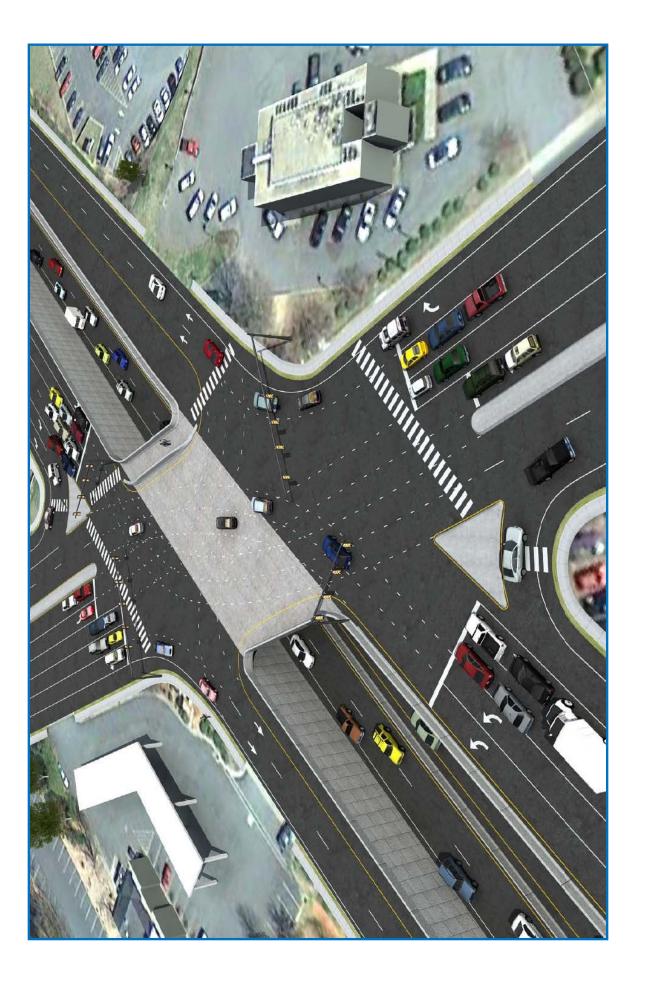
April 24, 2014

Examples of Grade Separations

Existing Hydraulic Road Intersection



Grade-Separated Hydraulic Road Intersection Concept:

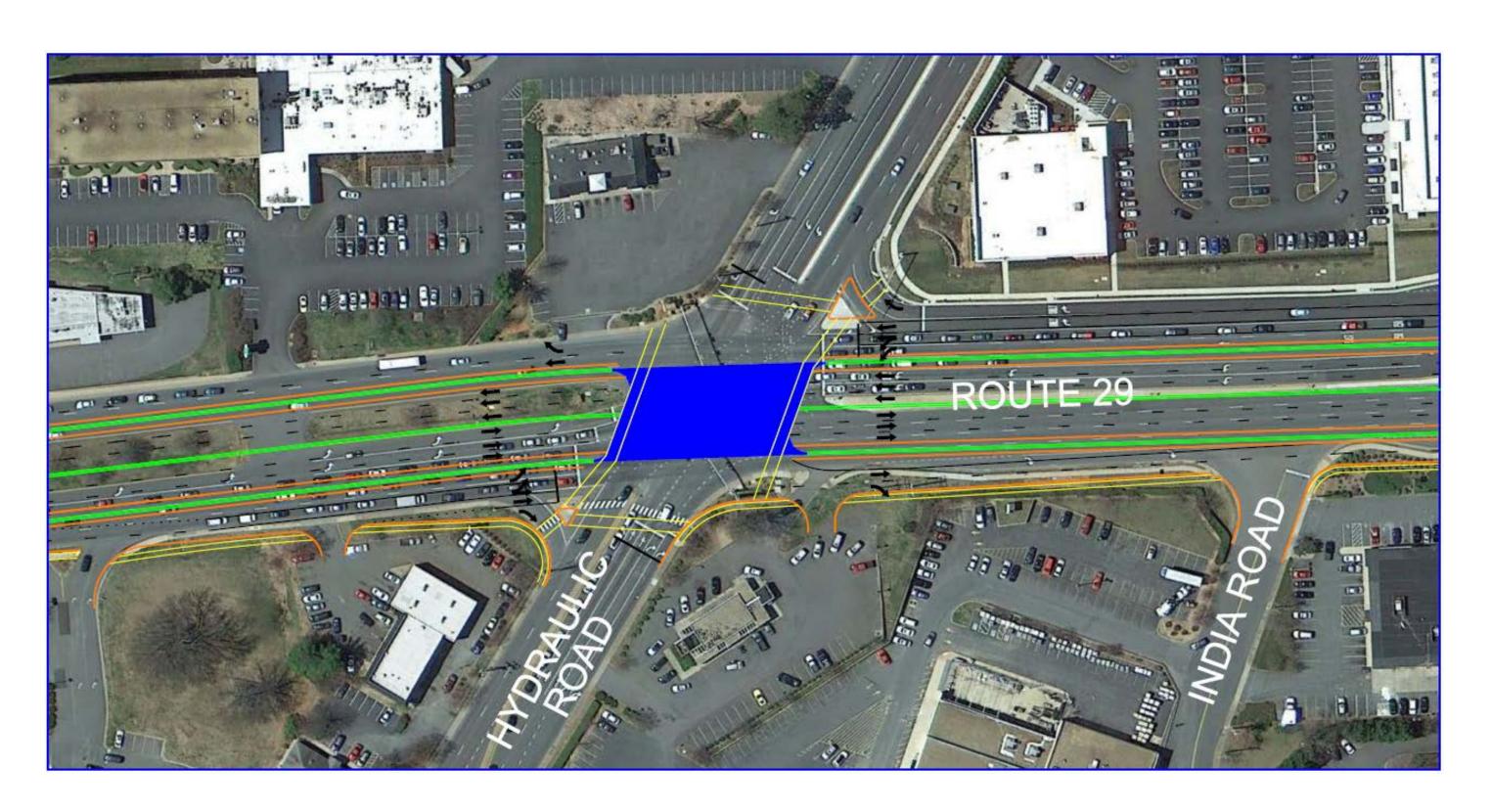


Grade-Separated Hydraulic Road Intersection Concept:



4/23/2014

Grade-Separated Hydraulic Road Intersection Concept:



Grade-Separated Rio Road Intersection Concept:

