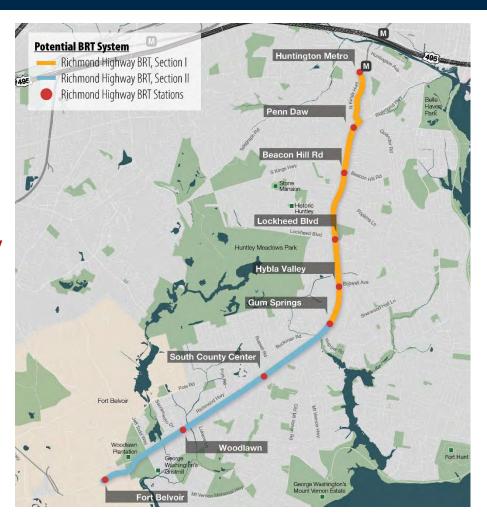






Richmond Highway Bus Rapid Transit Summary of Turn Lane Analysis Survey Results May 3-31, 2022





The Richmond Highway BRT project is funded in part by the Northern Virginia Transportation Authority.





Background

- On June 27, 2021, in response to community concerns and as part BRT project design endorsement, the Board directed staff to evaluate potential design modifications
 - Objective of narrowing cross section along Richmond Highway
 - Identified 13 intersections for potential left/right turn lane reductions
- Analysis was completed in coordination with Virginia Department of Transportation (VDOT)









Background

- Intersections that were identified for potential turn lane reductions:
 - Richmond Highway cross-section between Furman Lane and Shields Avenue
 - Richmond Highway & North Kings Highway/Shields Avenue
 - Richmond Highway & (New) Furman Lane Extension
 - Richmond Highway & Fordson Road/Boswell Avenue
 - Richmond Highway & Arlington Drive
 - Richmond Highway & Memorial Street
 - Richmond Highway & Beacon Hill Road
 - Richmond Highway & Southgate Drive
 - Richmond Highway & Sherwood Hall Lane
 - Richmond Highway & North Buckman Road/Mount Vernon Highway
 - Richmond Highway & Ladson Lane
 - Richmond Highway & Sacramento Drive/Cooper Road
 - Richmond Highway & Jeff Todd Way/Mount Vernon Memorial Highway







Survey Questions

- ZIP Code
- Neighborhood
- Age
- Transit riding frequency
- Driving frequency
- For each intersection studied:
 - Listed the intersection change that was studied along with a note about whether or not the change is recommended by staff
 - Asked, "Do you agree with the staff recommendations about the potential modifications studied for the [intersection] area?"
 - Answer choices were "Yes" / "No" / "No opinion", with opportunity to provide additional comments







Survey Responses

- Survey and comment period were open May 3 May 31, 2022.
- There were 430 responses overall, though not all respondents answered all questions.
 - About 200-250 people responded to each of the intersection questions.
- Surveys in English and Spanish were available online as well as on paper at the public meeting on May 3.

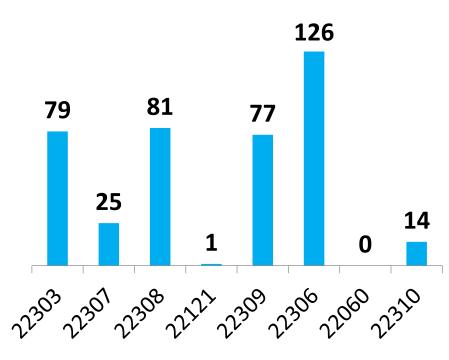








ZIP code





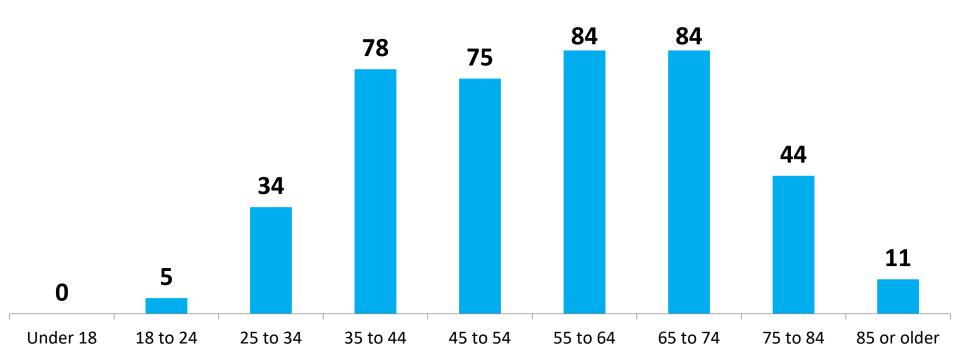








Age



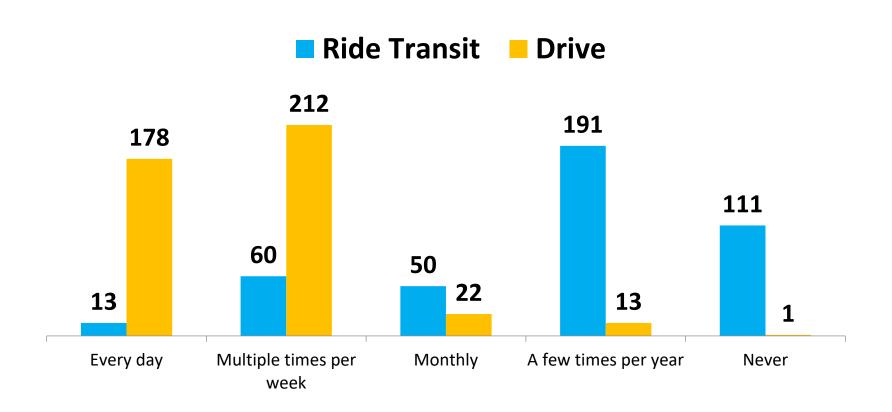








Travel Habits Today











All Intersections

Design & Response

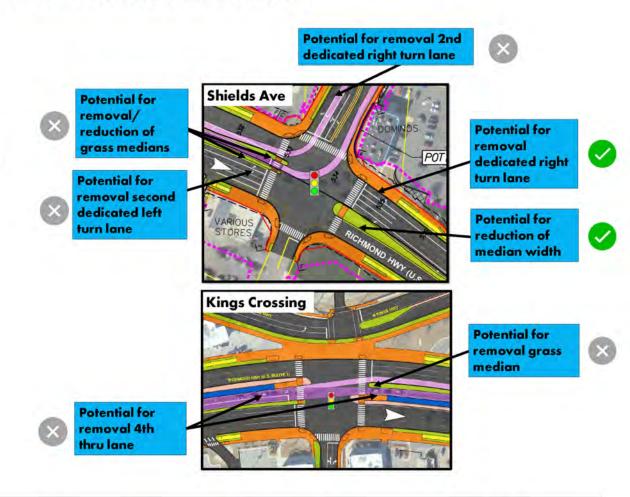




PENN DAW AREA - SHIELDS AVE & KINGS CROSSING

Potential modifications: Remove/ reduce the width of the grass medians north and south of the intersection at Shields Avenue

 Median width necessary for proper clearance behind the southbound Penn Daw BRT platform



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



PENN DAW AREA - SHIELDS AVE

Potential modification: Removal of southbound right turn (SBR) lane along Richmond Highway

Impact to max queues:

•AM: 275' to 300'

•PM: 1400' to 1600'

		Intersecti	on Delay (s	ec.)		
	AM Peak Hour					Hour
	SB R	SB Approach	Overall Intersection	SB R	SB Approach	Overall Intersection
Base Design	23.5	28.9	32.2	112.5	79.0	85.3
Lane Reduction	27.7	29.2	32.3	99.9	73.9	78.2



Potential for removal of southbound right turn lane



Findings for Removal of South	bound Right Turn Lane				
BRT impact No impact					
Ped. crossing distance	11-foot reduction				
Walk time for signal	Potential 3 sec. reduction				
Potential conflicts	Potential increase for rear-ends				
Delay	No significant impact				
Existing lane (Y/N)	Yes (shared thru/right)				
Cost impacts/other considerations	VDOT Design Waiver				
Recommendation	Remove				

LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



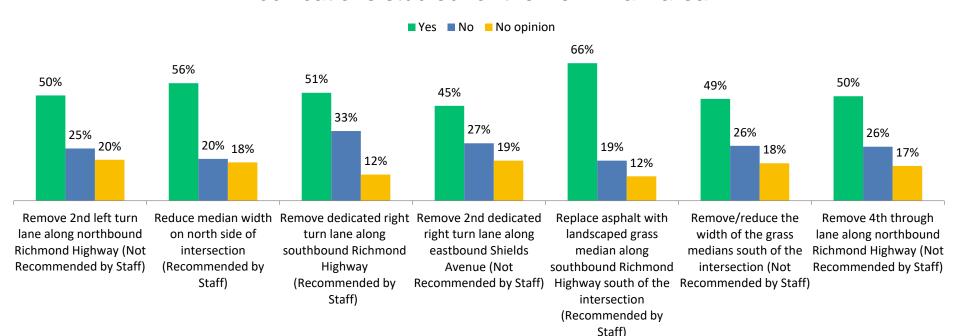




Penn Daw

241 responses

Do you agree with the staff recommendations about the potential modifications studied for the Penn Daw area?

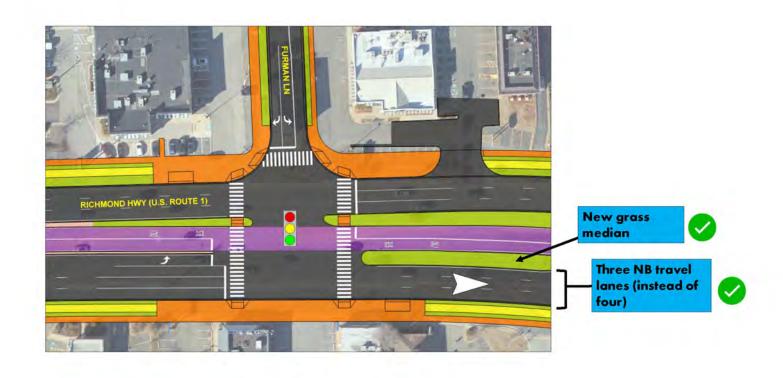






NEW FURMAN LANE EXTENSION

Potential modification: Grass median added to the design and 4th thrulane removed



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



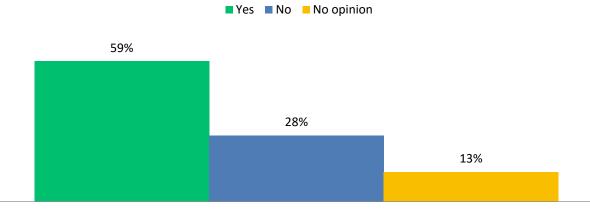
Change proposed for inclusion in design



Furman Lane

232 responses

Do you agree with the staff recommendation about the potential modification studied for the Furman Lane intersection?



Replace asphalt lane with grass median (Recommended by Staff)





SOUTHGATE DRIVE

Potential modification: Removal of southbound thru/right turn lane (SBR) along Richmond Highway

		Intersect	tion Delay (sec.)		
	6.5	AM Peak H	lour		PM Peak H	lour
	SB R	SB Approach	Overall Intersection	SB R	SB Approach	Overall Intersection
Base Design	14.7	34.8	20.9	11.4	18.3	17.7
Lane Reduction	26.2	42.5	23.9	41.2	40.9	30.7

Findings for Removal of SB Th	ru/Right Turn Lane
BRT impact	No impact
Ped. crossing distance	11-foot reduction
Walk time for signal	Potential 3 sec. reduction
Potential conflicts	Potential increase for rear-end
Delay	Increased SB delay (20+ sec.)
Existing lane (Y/N)	Yes
Cost impacts/other considerations	Additional project cost, VDOT Design Waiver
Recommendation	Remove



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

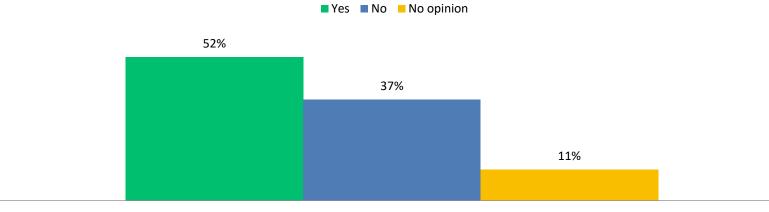




Southgate Drive

240 responses

Do you agree with the staff recommendation about the potential modification studied for the Southgate Drive intersection?



Remove through/right turn lane along southbound Richmond Highway (Recommended by Staff)





BEACON HILL ROAD - NORTHBOUND

Potential modification: Removal of northbound right turn (NBR) lane along Richmond Highway

		Intersect	ion Delay (sec	.)		
		AM Peak H	lour		PM Peak h	lour
	NB R	NB Approach	Overall Intersection	NB R	NB Approach	Overall Intersection
Base Design	3.6	41.7	51.5	3.7	36.0	52.5
Lane Reduction	40.6	43.9	51.0	21.2	33.5	55.5

Findings for Removal of NB	Right Turn Lane
BRT impact	No impact
Ped. crossing distance	11-foot reduction
Walk time for signal	Potential 3 sec. reduction
Potential conflicts	Potential increase for rear-ends
Delay	Increased SBR delay (20+ sec.
Existing lane (Y/N)	Yes
Cost impacts/other considerations	VDOT Design Waiver
Recommendation	Remove



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



BEACON HILL ROAD - SOUTHBOUND

Potential modification: Removal of southbound thru/right turn lane (SBR) along Richmond Highway

		Intersecti	ion Delay (se	ec.)		
	AM Peak Hour				PM Peak h	lour
	SB R	SB Approach	Overall Intersection	SB R	SB Approach	Overall Intersection
Base Design	18.7	22.6	51.5	32.0	35.0	52.5
Lane Reduction	16.1	20.3	51.0	46.4	42.6	55.5

Findings for Removal of SB T	hru/Right Turn Lane
BRT impact	Potential impact
Ped. crossing distance	11-foot reduction
Walk time for signal	Potential 3 sec. reduction
Potential conflicts	Potential increase for rear-ends
Delay	Increased SBR delay (20+ sec.)
Existing lane (Y/N)	Yes
Cost impacts/other considerations	Additional project cost, VDOT Design Waiver
Recommendation	Do not remove





Maximum Queue Lengths

Base Design AM
Base Design PM
Lane Reduction AM
Lane Reduction PM
Queue Length



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

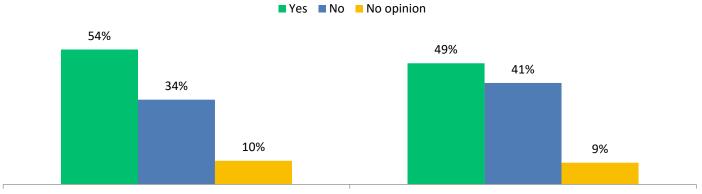




Beacon Hill Road

252 responses

Do you agree with the staff recommendations about the potential modifications studied for the Beacon Hill Road intersection?



Remove dedicated right turn lane along southbound Richmond Remove dedicated right turn lane along northbound Richmond Highway (Not Recommended by Staff)

Highway (Recommended by Staff)





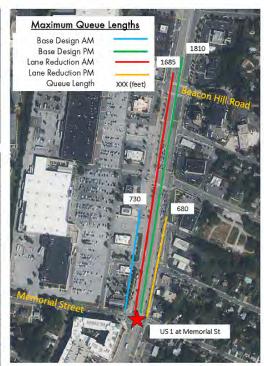
MEMORIAL STREET - SOUTHBOUND

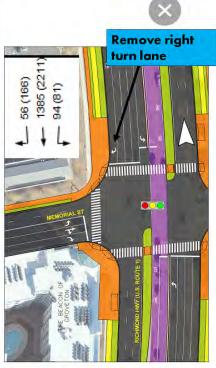
Potential modification: Removal of southbound right turn (SBR) lane along Richmond Highway

• Impacts at Beacon Hill Road affect the results for Memorial Street SB approach by metering in the PM

		Inters	ection Delay	(sec.)		
		AM Peak	Hour		PM Peak H	our
	SB R	SB Approach	Overall Intersection	SB R	SB Approach	Overall Intersection
Base Design	8.5	25.8	27.0	7.5	26.2	26.1
Lane Reduction	15.1	26.3	33.5	31.2	28.1	38.0

Findings for Removal of SB	Right Turn Lane
BRT impact	Potential impact
Ped. crossing distance	11-foot reduction
Walk time for signal	Potential 3 sec. reduction
Potential conflicts	Potential increase for rear-ends
Delay	Increased SBR delay (20+ sec.
Existing lane (Y/N)	Yes
Cost impacts/other considerations	Additional project cost
Recommendation	Do not remove





LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



MEMORIAL STREET - EASTBOUND

Potential modification: Removal of eastbound right turn

 As development occurs, lane will be dual purposed for future offpeak parking

•

		Intersect	tion Delay (sec	.)		
		AM Peak I	lour		PM Peak H	our
	EB R	EB Approach	Overall Intersection	EB R	EB Approach	Overall Intersection
Base Design	35.6	69.7	27.0	35.3	49.9	26.1
Lane Reduction	150.6	171.8	33.5	137.4	141.3	38.0



Potential for removal of right turn lane

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MEMORI		•) (
)))))))	
219 (202) 47 (58)	** £1	OND HWY (U.S. ROUTE)	Y
215 (447)	7	RIGHMO	

Findings for Removal of EB Right Turn Lane					
BRT impact	No impact				
Ped. crossing distance	11-foot reduction				
Walk time for signal	With mainline green Potential increase for rear-ends Increased EB delay (100+ sec.)				
Potential conflicts					
Delay					
Existing lane (Y/N)	Yes				
Cost impacts/other considerations	Additional project cost, possible VDOT design waiver				
Recommendation	Do not remove				



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

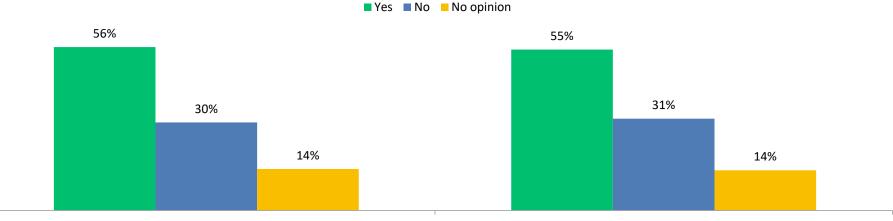




Memorial Street

234 responses

Do you agree with the staff recommendations about the potential modifications studied for the Memorial Street intersection?



Remove dedicated right turn lane along eastbound Memorial Street (Not Recommended by Staff - Considered for Off-Peak Parking)

Remove dedicated right turn lane along southbound Richmond Highway (Not Recommended by Staff)





ARLINGTON DRIVE

Potential modification: Removal of westbound right turn (WBR) lane along Arlington Drive

		Intersec	tion Delay (sec.)		
AM Peak Hour PM Peak Hour						our
	WB R	WB Approach	Overall Intersection	WB R	WB Approach	Overall Intersection
Base Design	13.1	28.9	17.6	8.5	33.2	23.0
Lane Reduction	67.9	73.0	26.1	62.8	70.0	26.8

Findings for Remo	val of WB Right Turn Lane		
BRT impact	No impact		
Ped. crossing distance	11-foot reduction		
Walk time for signal	With mainline green		
Potential conflicts	Potential increase for rear-ends		
Delay	Increased WB delay (45 sec.)		
Existing lane (Y/N)	Yes		
Cost impacts/other considerations	Additional project cost, possible VDOT design waiver		
Recommendation	Do not remove		





LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



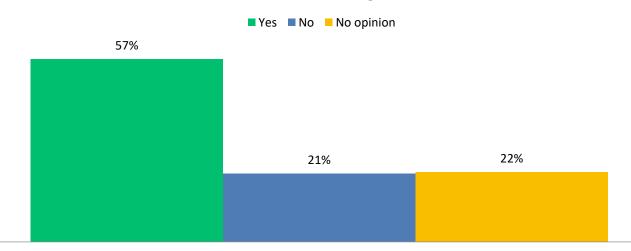




Arlington Drive

216 responses

Do you agree with the staff recommendation about the potential modification studied for the Arlington Drive intersection?



Remove dedicated right turn lane along westbound Arlington Drive (Not Recommended by Staff)

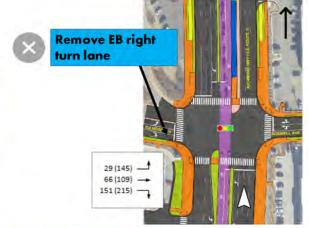




FORDSON RD / BOSWELL AVE

Potential modification: Removal of eastbound right turn (EBR) lane along Fordson Road

		Intersec	tion Delay (sec.)		
		AM Peak H	lour	7	PM Peak H	our
	EB R	EB Approach	Overall Intersection	EB R	EB Approach	Overall Intersection
Base Design	42.5	64.4	42.6	26.5	53.9	30.5
Lane Reduction	144.7	161.7	48.5	351.4	352.1	41.2



Findings for Remo	val of EB Right Turn Lane			
BRT impact	No impact			
Ped. crossing distance	11-foot reduction			
Walk time for signal	With mainline green			
Potential conflicts	Potential increase for rear-ends			
Delay	Increased EB delay (100-300 sec.)			
Existing lane (Y/N)	Yes			
Cost impacts/other considerations	Additional project cost, possible VDOT design waiver			
Recommendation	Do not remove			



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

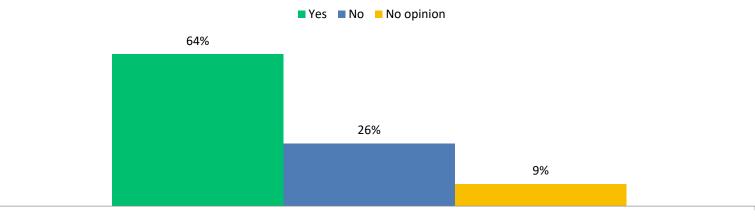




Fordson/Boswell

238 responses

Do you agree with the staff recommendation about the potential modification studied for the Fordson Road/Boswell Avenue intersection?



Remove dedicated right turn lane along eastbound Fordson Road (Not Recommended by Staff)





SHERWOOD HALL LANE - NORTHBOUND

			Intersec	tion Delay (se	ec.)			
	1000	AN	Peak Hour			PA	A Peak Hour	
	NB R	NB L	NB Approach	Overall Intersection	NB R	NB L	NB Approach	Overall Intersection
Base Design	15.8	83.4	21.7	34.3	8.0	66.1	15.1	48.6
Lane Reduction	18.5	98.7	17.1	31.2	12.8	44.5	13.7	61.0

	Findings for Removal of SB Right Turn Lane	Findings for Removal of NB Left Turn Lane	Findings for Removal of NB Right Turn Lane
BRT impact	No impact	No impact	No impact
Ped. crossing distance	11-foot reduction 6-foot reduction		11-foot reduction
Walk time for signal	Potential 3 sec. reduction	Potential 2 sec. reduction	Potential 3 sec. reduction
Potential conflicts	Potential increase for rear- ends	Potential increase for rear- ends	Potential increase for rear- ends
Delay	N/A	Increased Overall delay (12 sec.)	Increased SBR delay (20+ sec.)
Existing lane (Y/N)	Yes	Yes	Yes (channelized turn)
Cost impacts/other considerations Additional project cost		Additional project cost	Additional project cost, VDOT Design Waiver
Recommendation	Remove	Remove	Do not remove



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



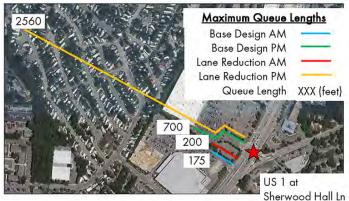
SHERWOOD HALL LANE - EASTBOUND

Potential modification: Removal of eastbound right turn lane (EBR) along Sherwood Hall Lane

		Intersec	tion Delay (sec.)		
		AM Peak H	lour		PM Peak H	our
	EB R	EB Approach	Overall Intersection	EB R	EB Approach	Overall Intersection
Base Design	6.9	60.3	34.3	19.0	62.1	48.6
Lane Reduction	34.3	64.8	31.2	217.5	242.3	61.0

Findings for Removal	of EB Right Turn Lane
BRT impact	No impact
Ped. crossing distance	11-foot reduction
Walk time for signal	With mainline green
Potential conflicts	Potential increase for rear-ends
Delay	Increased EB delay (180 sec.)
Existing lane (Y/N)	Yes
Cost impacts/other considerations	Additional project cost
Recommendation	Do not remove





LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

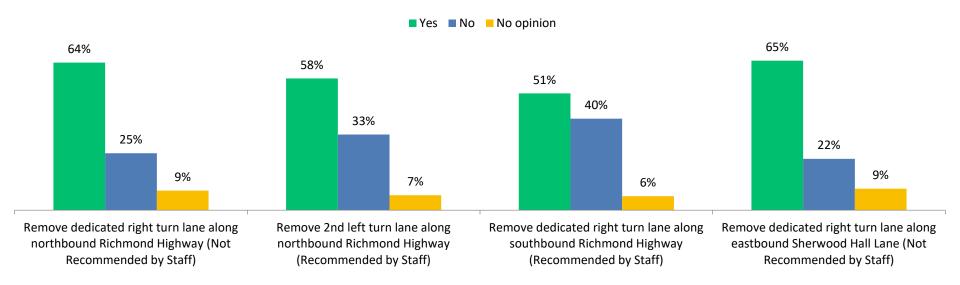




Sherwood Hall Lane

245 responses

Do you agree with the staff recommendations about the potential modifications studied for the Sherwood Hall Lane intersection?







LADSON LANE - SOUTHBOUND

Potential modification: Removal of southbound thru/right lane (SBR) along Richmond Highway

		Interse	ection Delay (se	ec.)			
AM Peak Hour PM Peak Hour							
	SB R	SB Approach	Overall Intersection	SB R	SB Approach	Overall Intersection	
Base Design	5.9	6.0	12.2	15.0	12.4	14.5	
Lane Reduction	6.3	11.0	14.7	11.7	11.4	23.5	

Findings for Removal of SB Thru/Right Lane					
BRT impact	No impact				
Ped. crossing distance	11-foot reduction				
Walk time for signal	Potential 3 sec. reduction				
Potential conflicts	Potential increase for rear-ends (50% increas				
Delay	Increased SBR delay (20+ sec.)				
Existing lane (Y/N)	Yes (right turn only lane)				
Cost impacts/other considerations	Additional project cost, VDOT Design Waiver				
Recommendation	Do not remove				

675 740 560 660 US 1 at Ladson Ln

Maximum Queue Lengths

Base Design AM
Base Design PM
Lane Reduction AM
Lane Reduction PM
Queue Length XXX (feet)



thru/right turn lane



Note: SB right/thru lane provides storage for heavy SB right turn at Buckman.

LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



LADSON LANE - EASTBOUND

Potential modification: Removal of eastbound right turn (EBR) lane along Ladson Lane

Intersection Delay (sec.)								
		AM Peak H	lour	-	PM Peak H	our		
	EB R	EB Approach	Overall Intersection	EB R	EB Approach	Overall Intersection		
Base Design	56.6	76.1	12.2	45.0	55.6	14.5		
Lane Reduction	96.6	92.2	14.7	50.1	64.2	23.5		

Findings for Removal of EB Right Turn Lane						
BRT impact	No impact					
Ped. crossing distance	11-foot reduction					
Walk time for signal	With mainline green					
Potential conflicts	Potential increase for rear-ends					
Delay	Increased EBR delay (40 sec.)					
Existing lane (Y/N)	Yes					
Cost impacts/other considerations	Additional project cost, possible VDOT design waiver					
Recommendation	Remove					



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



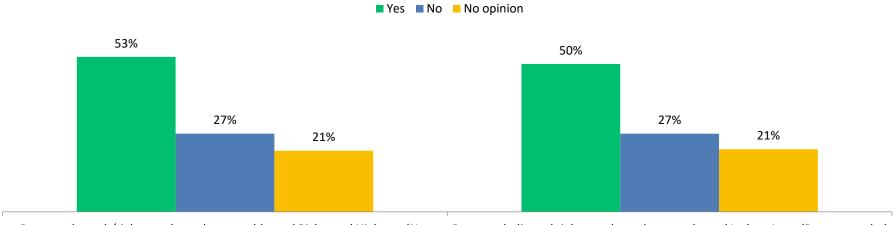
Potential for

removal right turn lane

Ladson Lane

207 responses

Do you agree with the staff recommendations about the potential modifications studied for the Ladson Lane intersection?



Remove through/right turn lane along southbound Richmond Highway (Not Recommended by Staff)

Remove dedicated right turn lane along eastbound Ladson Lane (Recommended by Staff)





BUCKMAN RD/MT VERNON HWY - EASTBOUND

Potential modification: Removal of eastbound lane (EBR) along Mt Vernon Hwy

Intersection Delay (sec.)							
		AM Peak H	lour		PM Peak H	our	
	EB R	EB Approach	Overall Intersection	EB R	EB Approach	Overall Intersection	
Base Design	12.5	76.3	47.2	21.1	74.4	33.9	
Lane Reduction	43.2	75.5	59.0	60.3	76.3	39.8	

Findings for Removal of EB Right Turn Lane					
BRT impact	No impact				
Ped. crossing distance	11-foot reduction				
Walk time for signal	With mainline green				
Potential conflicts	Potential increase for rear-ends				
Delay	Increased EBR delay (30-40 sec.)				
Existing lane (Y/N)	No				
Cost impacts/other considerations	Blocking of driveways				
Recommendation	Remove				

Potential for removal thru/right and reduce to 4 lanes







LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

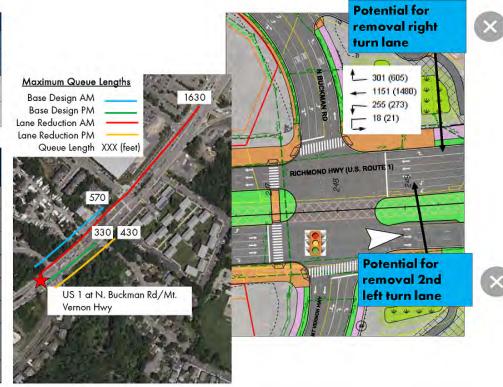


BUCKMAN RD/MT VERNON HWY - SOUTHBOUND

Potential modifications: Removal of southbound right (SBR) and left turn (SBL) lanes along Richmond Highway

Intersection Delay (sec.)										
	AM Peak Hour					PM Peak Hour				
	SB R	SB L	SB Approach	Overall Intersection	SB R	SB L	SB Approach	Overall Intersection		
Base Design	11.9	66.8	29.8	47.2	9.6	96.3	23.0	33.9		
Lane Reduction	27.0	197.9	51.0	59.0	17.1	99.1	26.8	39.8		

	Findings for Removal of SB Left Turn Lane	Findings for Removal of SB Right Turn Lane		
BRT impact	No impact	No impact		
Ped. crossing distance	11-foot reduction	11-foot reduction		
Walk time for signal	Potential 3 sec. reduction	Potential 3 sec. reduction		
Potential conflicts	Potential increase for rear-ends	Potential increase for rear-end		
Delay	Increased LT delay (130 sec.)	Increased SBR delay (17 sec.)		
Existing lane (Y/N)	No	Yes		
Cost impacts/other considerations	N/A	VDOT Design Waiver		
Recommendation	Do not remove	Do not remove		



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



BUCKMAN RD/MT VERNON HWY - WESTBOUND

Potential modification: Removal of westbound right turn (WBR) lane along Mt Vernon Hwy

Intersection Delay (sec.)								
		AM Peak I	Hour	PM Peak Hour				
	WB R	WB Approach	Overall Intersection	WB R	WB Approach	Overall Intersection		
Base Design	67.0	67.4	47.2	27.1	38.7	33.9		
Lane Reduction	102.9	100.8	59.0	28.9	41.0	39.8		

Findings for Removal	of WB Right Turn Lane
BRT impact	No impact
Ped. crossing distance	11-foot reduction
Walk time for signal	With mainline green
Potential conflicts	Potential increase for rear-ends
Delay	Increased WB delay (35 sec.)
Existing lane (Y/N)	No
Cost impacts/other considerations	None
Recommendation	Do not remove





Potential for removal of right turn lane



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

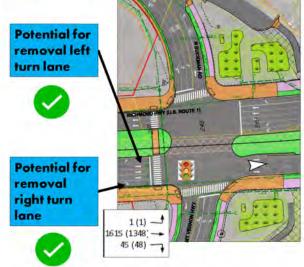


BUCKMAN RD/MT VERNON HWY - NORTHBOUND

Potential modifications: Removal of northbound right (NBR) and left turn (NBL) lanes along Richmond Highway

			Intersect	ion Delay (se	c.)			
AM Peak Hour						PA	A Peak Hou	Jr.
	NB R	NB L	NB Approach	Overall Intersection	NB R	NB L	NB Approach	Overall Intersection
Base Design	13.9	57.7	50.0	47.2	11.4	91.7	38.5	33.9
Lane Reduction	50.0	N/A	50.9	59.0	42.9	N/A	48.9	39.8

	Findings for Removal of NB Left Turn Lane	Findings for Removal of NB Righ Turn Lane	
BRT impact	No impact	No impact	
Ped. crossing distance	6-foot reduction	11-foot reduction	
Walk time for signal	Potential 2 sec. reduction	Potential 3 sec. reduction	
Potential conflicts	N/A	Potential increase for rear-ends	
Delay	Increased LT delay (130 sec.)	Increased SBR delay (35 sec.)	
Existing lane (Y/N)	Yes	Yes	
Cost impacts/other considerations	Left turns would be restricted, volumes would need to shift to Janna Lee or Ladson	Additional project cost, VDOT Design Waiver	
Recommendation	Remove	Remove	



LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

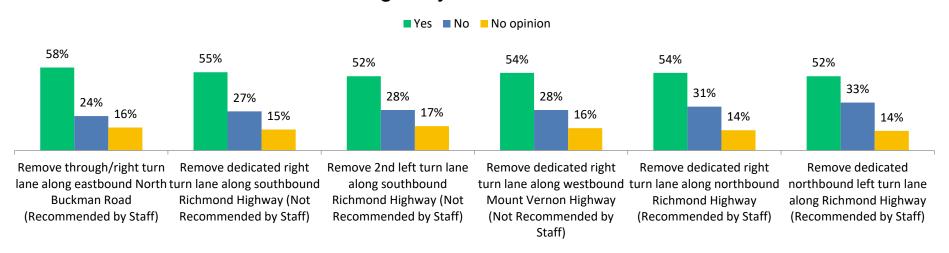




North Buckman Rd/Mount Vernon Hwy

212 responses

Do you agree with the staff recommendations about the potential modifications studied for the North Buckman Road/Mount Vernon Highway intersection?







SACRAMENTO DR/COOPER RD - EASTBOUND

Potential modification: Removal of eastbound right turn

 As development occurs, lane will be dual purposed for future off-peak parking

Intersection Delay (sec.)							
	To real	AM Peak H	lour		PM Peak H	our	
	EB R	EB Approach	Overall Intersection	EB R	EB Approach	Overall Intersection	
Base Design	39.0	58.8	39.9	53.5	88.2	42.8	
Lane Reduction	41.0	58.9	40.3	56.1	90.9	47.9	

Findings for Removal of EB Right Turn Lane					
BRT impact	No impact				
Ped. crossing distance	11-foot reduction				
Walk time for signal	With mainline green				
Potential conflicts	Potential increase for rear-ends				
Delay	Increased northbound left/southbound left delay (35 sec.				
Existing lane (Y/N)	No (combining intersections)				
Cost impacts/other considerations	Blocking of driveways, economic development impact				
Recommendation	Do not remove				





LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design



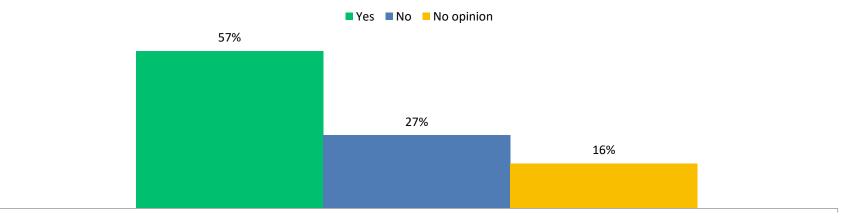




Sacramento Dr/Cooper Rd

196 responses

Do you agree with the staff recommendation about the potential modification studied for the Sacramento Drive/Cooper Road intersection?



Remove dedicated right turn lane along eastbound Sacramento Drive (Not Recommended by Staff - Considered for Off-Peak Parking)

39

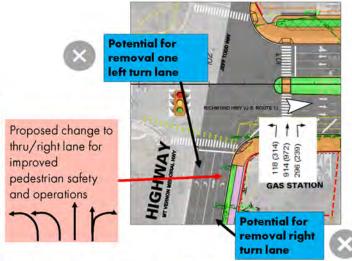


JEFF TODD WAY/MT VERNON - WESTBOUND

Potential modifications: Removal of westbound left (WBL) and right turn (WBR) lanes along Mt Vernon Hwy

Intersection Delay (sec.)										
	AM Peak Hour					PM Peak Hour				
	WB R	WB L	WB Approach	Overall Intersection	WB R	WB L	WB Approach	Overall Intersection		
Base Design	6.0	83.1	73.3	33.4	9.0	88.9	58.0	44.6		
Lane Reduction	48.6	127.9	94.3	37.0	81.2	128.4	103.0	49.0		

	Findings for Removal of WB Left Turn Lane	Findings for Removal of WB Right Turn Lane
BRT impact	No impact	No impact
Ped. crossing distance	11-foot reduction	11-foot reduction
Walk time for signal	With mainline green	With mainline green
Potential conflicts	Potential increase for rear-ends	Potential increase for rear-ends
Delay	Increased WBL delay (40-45 sec.)	Increased WBR delay (40-70 sec.
Existing lane (Y/N)	Yes	No
Cost impacts/other considerations	Additional project cost	Previously requested by the public
Recommendation	Do not remove	Do not remove/Lanes reconfigured





LEGEND

Potential modifications for analysis/evaluation



Change not proposed for inclusion in design



Change proposed for inclusion in design

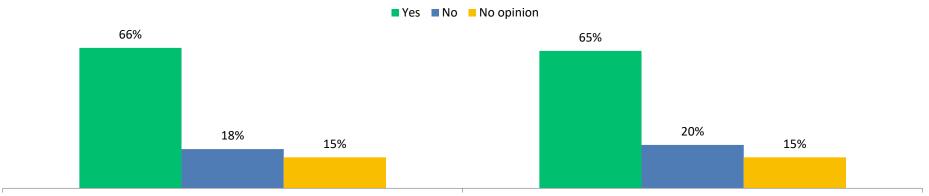




Jeff Todd Way/Mount Vernon Memorial Hwy

206 responses

Do you agree with the staff recommendations about the potential modifications studied for the Jeff Todd Way/Mount Vernon Memorial Highway intersection?



Remove dedicated right turn lane along westbound Mount Vernon Memorial Highway (Not Recommended by Staff)

Remove 2nd left turn lane along westbound Mount Vernon Memorial Highway (Not Recommended by Staff)



