

ANNANDALE RD SAFETY PROJECT

Mason District
September 23, 2024



Presenter: Hannah Cacner, Active Transportation Planner II, FCDOT



AGENDA

➤ FCDOT: Proposed Annandale Rd Safety Project

➤ Q&A

*VDOT has not yet approved this project, and some elements may change as a result of their feedback



ANNANDALE RD - EXISTING

- Between Gallows Rd and Little River Turnpike
- Four wide travel lanes encourage speeding over 35 mph limit
- Narrow, discontinuous sidewalks (3.5-5' wide) with narrow buffer to street (2-3' wide)
 - Unpleasant walking conditions
 - Missing sidewalk on east side between Burke & Herbert Bank and 7/11
- No bicycle facilities



NEIGHBORHOOD PLANS

- Countywide Bicycle Master Plan calls for bike lanes
- Fairfax County Comprehensive Plan encourages pedestrian oriented development and Complete Street design in this area
- FCDOT is wrapping up the Gallows Road Multimodal Transportation Study
 - Multimodal analysis of the Gallows Road corridor study between Annandale to Tysons, looking at barriers to connectivity
 - Walk/ride audit included a request for road diet on Annandale Rd
- FCDOT plans up to four Capital Bikeshare stations along or within a half mile of Annandale Rd



CRASHES AND OTHER ISSUES

- 54 crashes between 2021-2023
 - Most were property damage (35) but 13 had suspected minor injuries, 2 suspected major injuries, and one fatality
 - One pedestrian crash at Little River Turnpike, 3 at Maple Place, and one at Markham Street
 - 6 rear end and 21 angle crashes
- Likely that pedestrian and bicycle demand is suppressed by the street configuration



WHAT IS A ROAD DIET?

- Road diets typical convert four lane streets into two lanes with a center turn lane
 - Center turn adds capacity
 - Provides space for bicycle infrastructure
- FCDOT and VDOT have implemented 30+ road diets over the past decade
- Many studies have proven the safety benefits for all street users



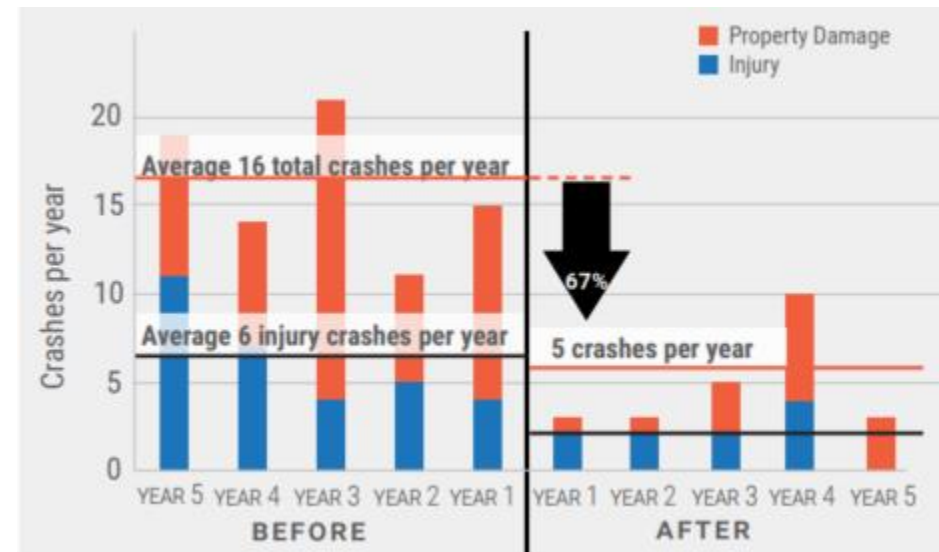
LOCAL ROAD DIET EXAMPLE: LAWYERS ROAD

- Reduced crashes 67%
- 69% of respondents said Lawyers Road seems safer after the roadway reconfiguration was implemented
- 7% of respondents bicycled on Lawyers Road more often than before
- 74% of respondents agreed that the project improved Lawyers Road



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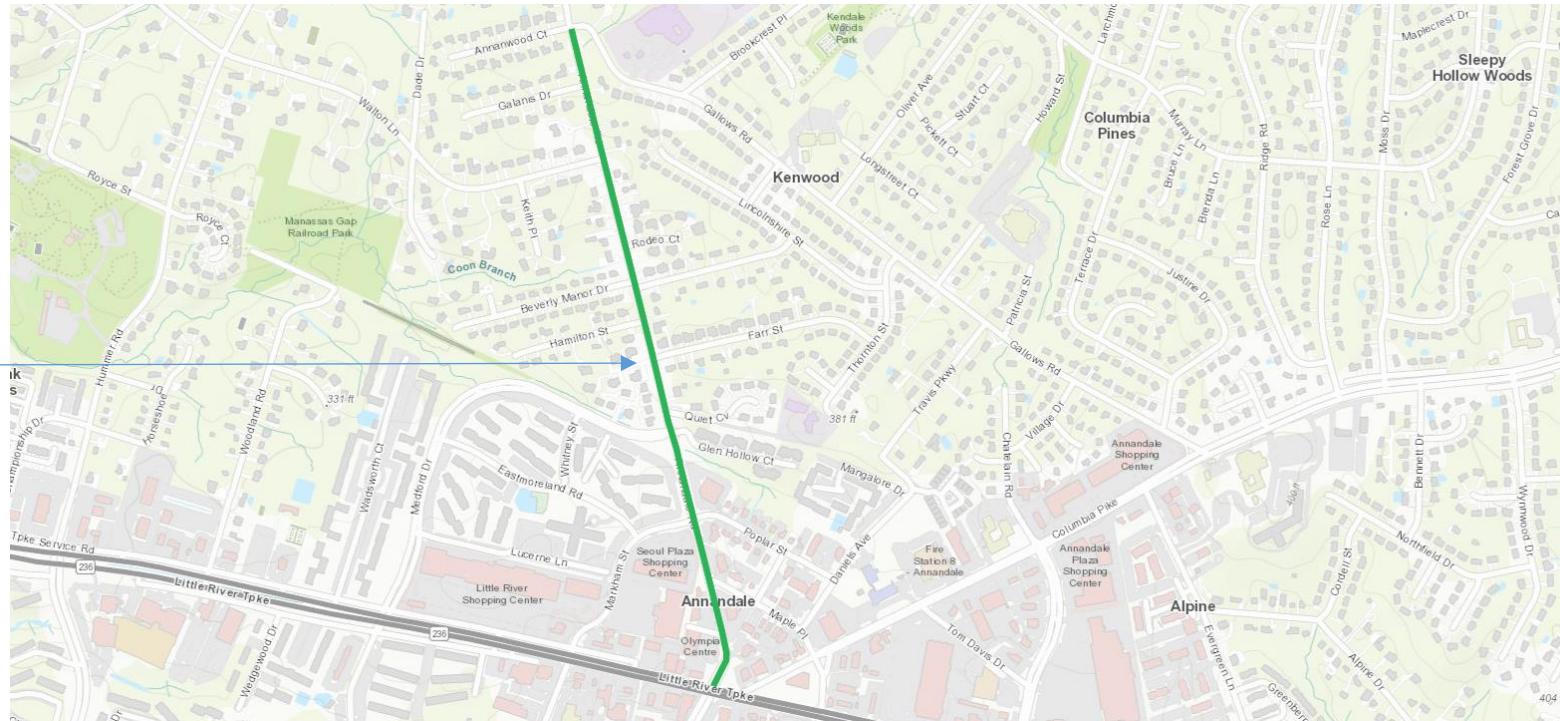
ANNANDALE RD- PROPOSED

- Between Little River Turnpike and Gallows Rd/Annanwood Ct
- Add center TWLT lane and bike lanes by repurposing two of four travel lanes during repaving (road diet)
 - Connects to bike lanes on Gallows Rd, Maple Pl, Ravensworth Ave, and Markham St
 - 1.4 miles of bike lanes on Ravensworth Ave extended by 0.8 miles
 - Moves vehicles from 3' from the sidewalk to 8-10' away, creating a buffer for people walking
- Speeding and crashes reduced



ANNANDALE RD PROPOSED ROAD DIET

Annandale Rd



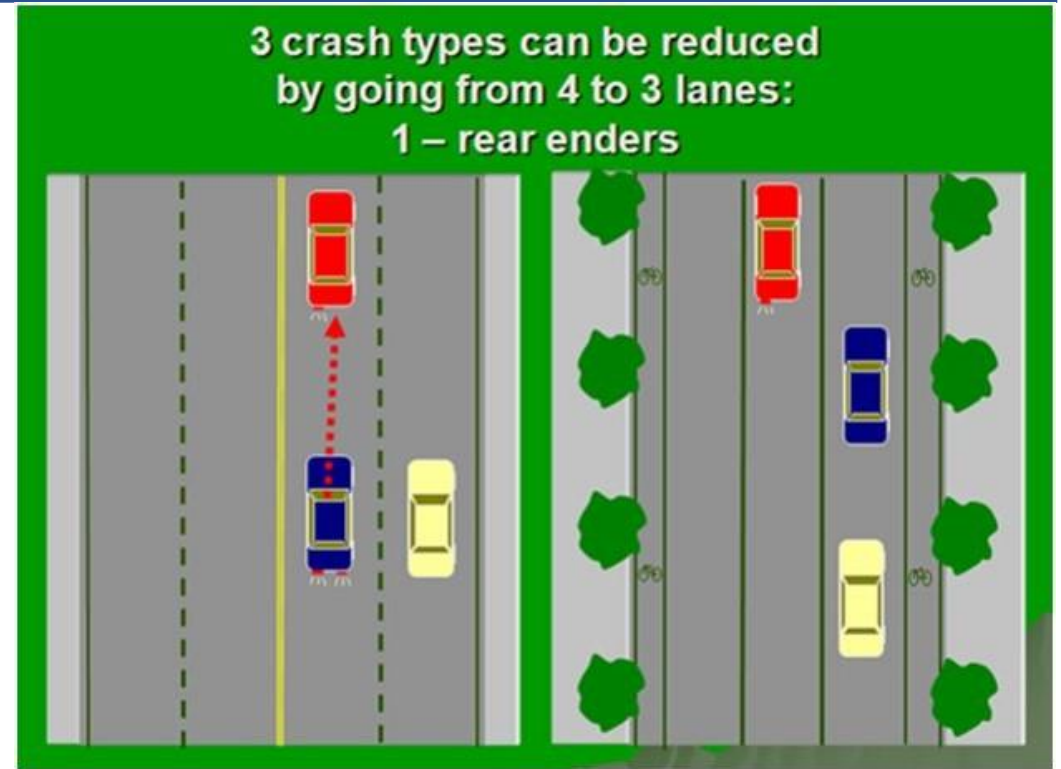
IMPROVEMENTS FOR PEOPLE WHO WALK

- People cross one travel lane at a time and have space in the median to wait for a gap in traffic
- Allows for future pedestrian refuge islands and/or rapid flashing beacons
- High volume of bus traffic means lots of people cross the street
- Additional crosswalks on Annandale Rd may not be within scope of repaving program



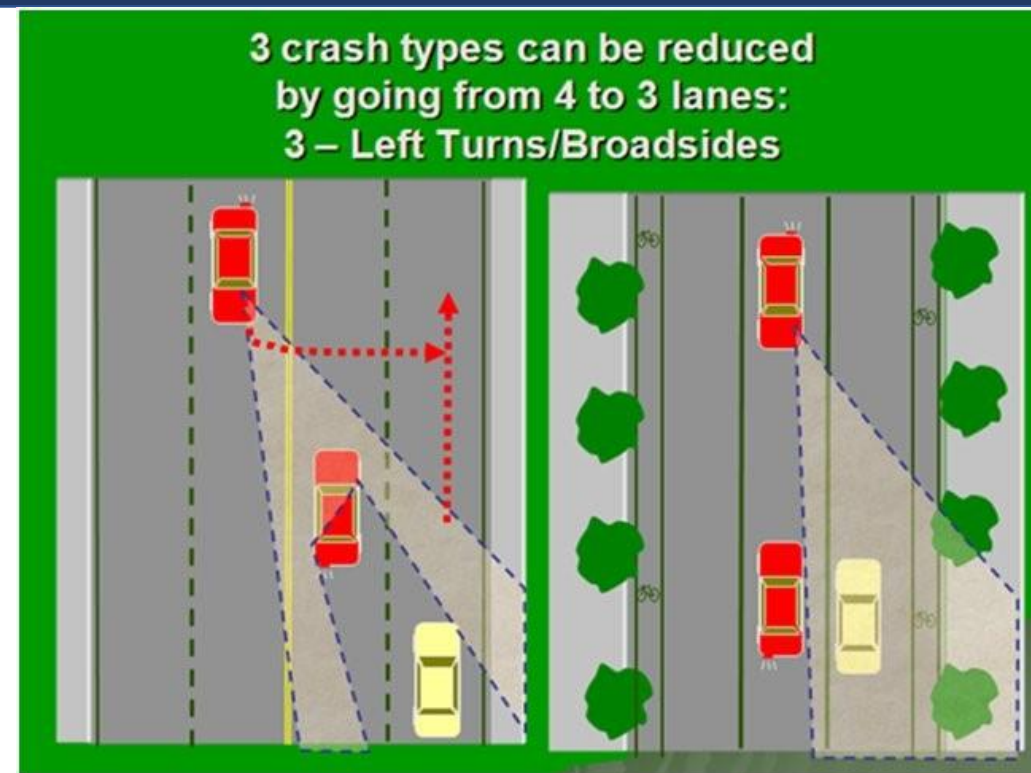
IMPROVEMENTS FOR PEOPLE WHO DRIVE

- Left turn lanes improve safety for drivers by reducing three crashes types
 - Rear end crash: providing a safe space to wait for gap to turn
 - Angled crash: turn across one lane instead of two
 - Side swipe crash: Eliminate passing around stopped left turning drivers
- Left turn lanes keep traffic flowing by removing left turning drivers from the travel lane
- Reduces speeding as slower drivers will set the limit



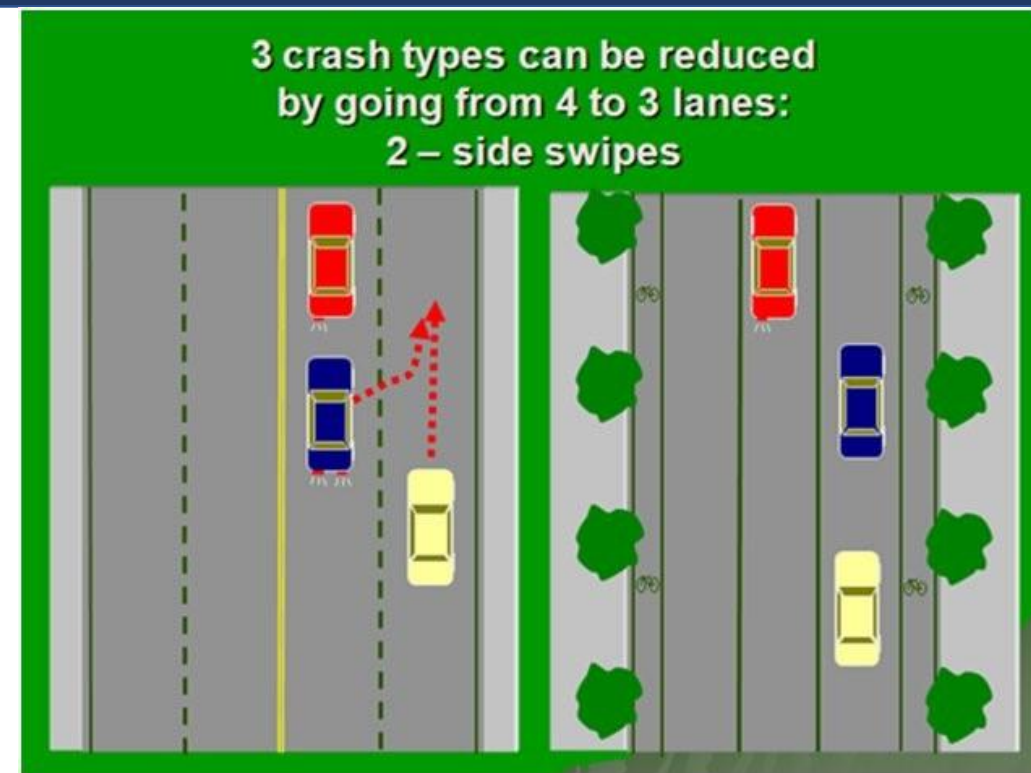
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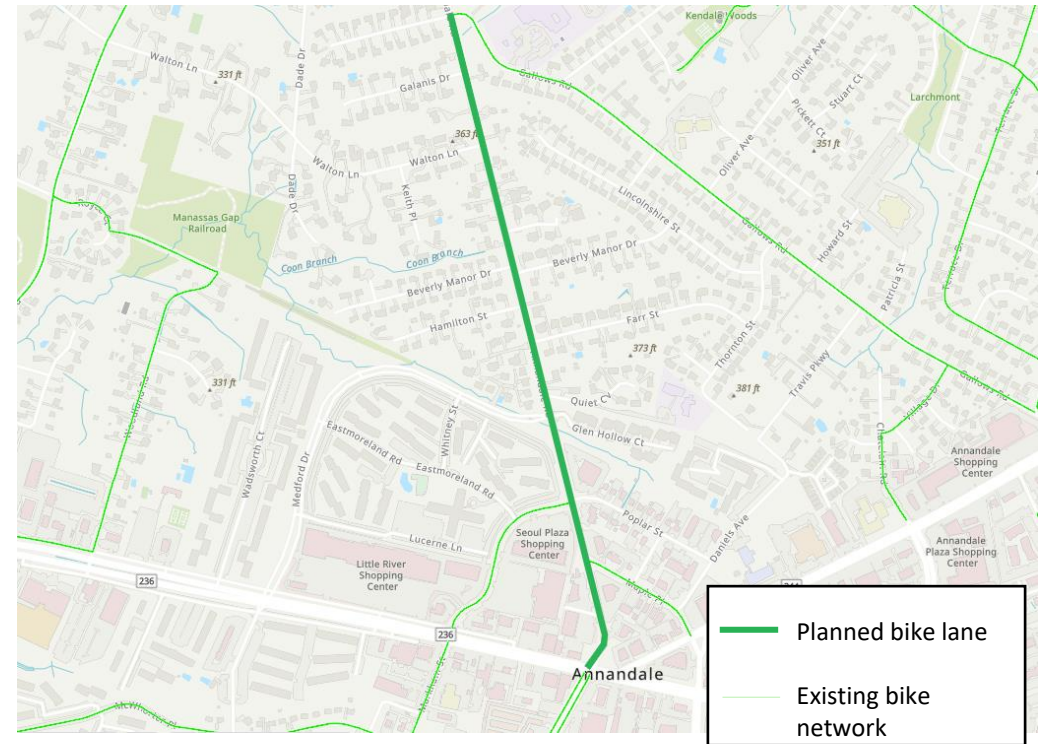
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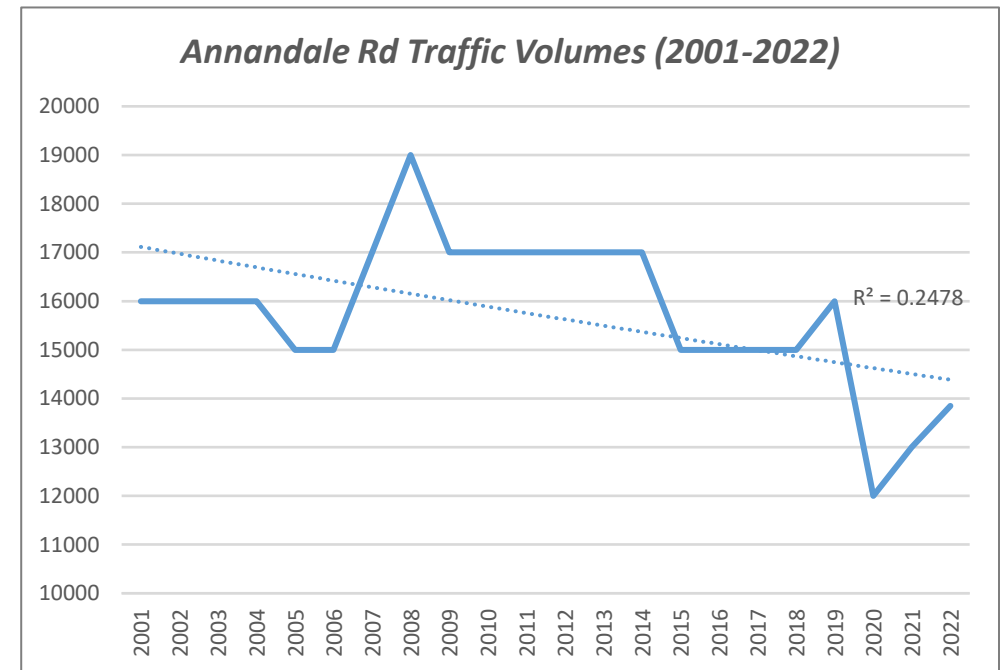
IMPROVEMENTS FOR PEOPLE WHO RIDE BIKES

- Bike lanes delineate space for riders
- Will reduce level of traffic stress for people bicycling which will attract more riders of all ages and abilities
- Connects residential areas to downtown Annandale
- Connects to bike lanes on Ravensworth Rd, Gallows Rd, Maple Pl and Markham St
- Connects several parks via low stress streets



TRAFFIC STUDY SUMMARY

- Annandale Rd had 16,000 cars per day in 2019 and 13,850 in 2022
 - Per FHWA guidance, streets with 15,000-20,000 are good candidate for road diets in some instances and should conduct a traffic study
- No major changes at Gallows Rd/Annanwood Ct and Little River Turnpike intersections
- Traffic declined on Annandale Rd since 2001



ANNANDALE RD & GALLOWS RD

- Changes to Gallows Rd/Annanwood Ct intersection
 - One southbound travel lane becomes left turn lane
- Slightly **decrease** in delay across entire intersection
 - 5.6 seconds in AM peak hour
 - 8.6 seconds in PM peak hour

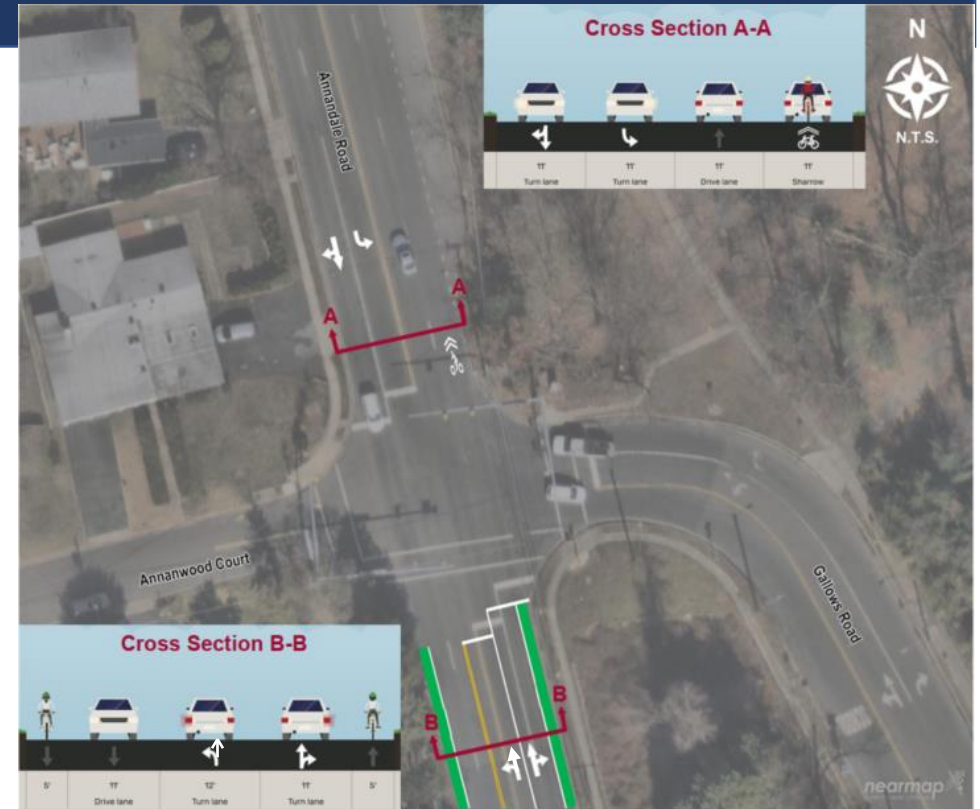


Figure 8: Intersection of Annandale Road and Gallows Road Build Conditions Cross Section and Plan View

ANNANDALE RD & LITTLE RIVER TURNPIKE

- Minimal changes to Little River Turnpike intersection to mitigate delays
 - One northbound travel lane becomes right turn lane
- +1 and +2.4 second **increase** in delay for entire intersection (AM & PM)
- Delay within County Comprehensive Plan guidance and FCDOT/VDOT MOU

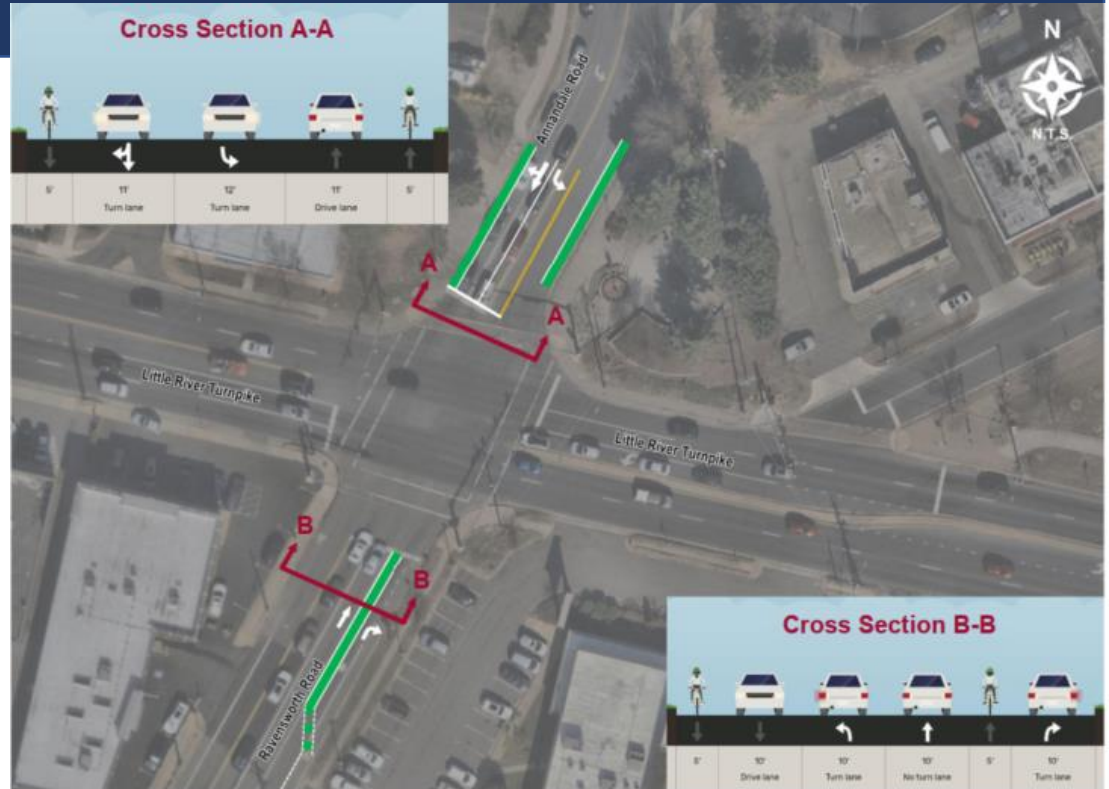


Figure 9: Intersection of Annandale Road and Little River Turnpike Build Conditions Cross Section and Plan View



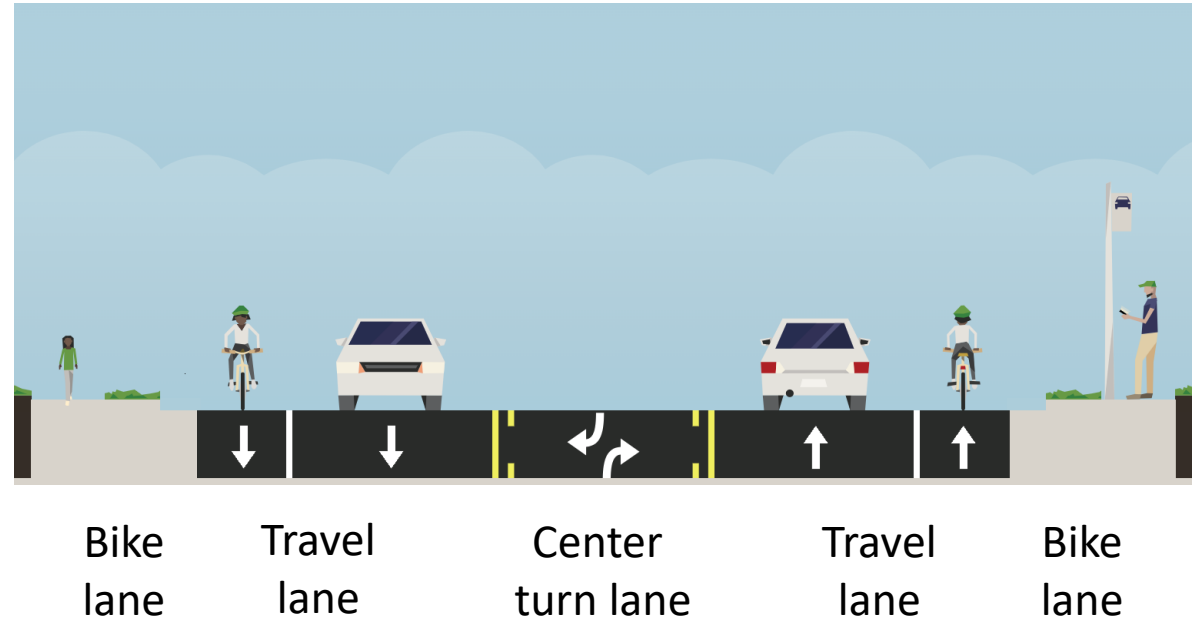
TRAFFIC STUDY: INTERSECTION IMPACTS

Intersection	AM delay (peak hour)	PM delay (peak hour)
Annandale Rd and Markham St	+2.5 seconds	+4.8 seconds
Annandale Rd and Maple Pl	+0.8 seconds	+1.5 seconds



ANNANDALE RD – PROPOSED CONCEPTS

- Cross-section of Annandale Rd with center turn lane
- Runs between Gallows Road/Annanwood Court to Little River Turnpike
- Bike lanes on each side of roadway
- Will connect to bike lanes on Ravensworth Rd, Maple Pl, Markham St and Gallows Rd



COMMUNITY FEEDBACK

- **Paving-related comments** (e.g., drainage issues, missing signage, signal repair, walkway repair and sight distance issues due to vegetation overgrowth) should be submitted through the myVDOT portal: <https://my.vdot.virginia.gov/>. If you would like to request road repairs, please follow the "I need a road repaired" link on the VDOT portal or call 1-800-FOR-ROAD (1-800-367-7623).
- **Project webpage:**
<https://www.fairfaxcounty.gov/transportation/2025-paving-and-restriping-program>

**Comments due by:
October 11, 2024**



QUESTIONS AND COMMENTS

➤ Feedback Form for Annandale Rd

<https://publicinput.com/w31622>

Telephone Feedback (leave a recorded message):

703-890-5898; Project Code: 10635

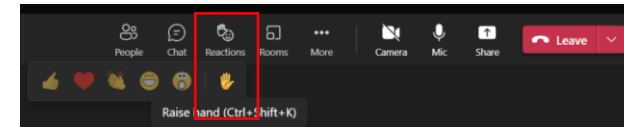
➤ Mailing Address

ATTN: Zachary DesJardins
4050 Legato Road, Suite 400
22033 Fairfax, VA

Comments due by October 11, 2024

To ask a Question Now:

Please use the “Reactions” > “Raise your Hand” feature at the top of your screen:



If calling in via telephone:

- Press *5 to “raise your hand”
- Press *6 to unmute to speak

