24 May 2021 Silver Spring CAB



FENTON STREET CYCLETRACK



Matt Johnson, AICP



Learn More





Project webpage: https://tinyurl.com/FentonVillage



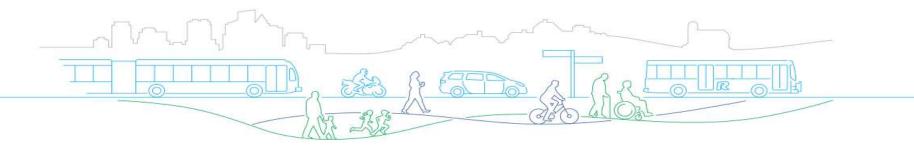
Agenda

- Project Background
- Alternative E
- Traffic / Intersections
- Parking / Loading
- Transit
- Urban Environment / Low Vision Wayfinding
- Next Steps
- Questions/Discussion



Background





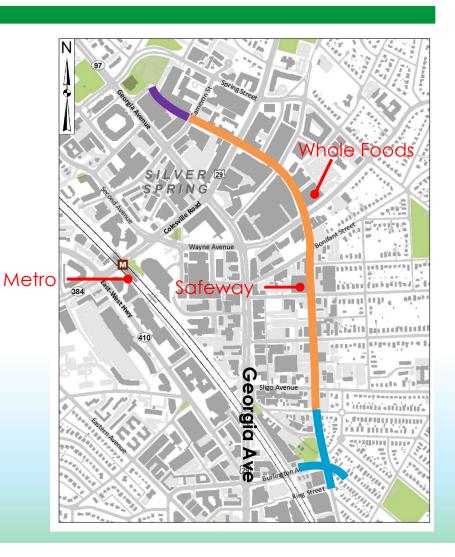
Project Area

5

Cameron-Planning Bikeway

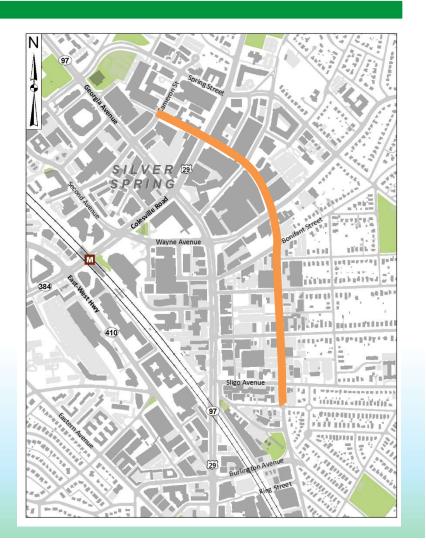
Fenton Street Bikeway Study

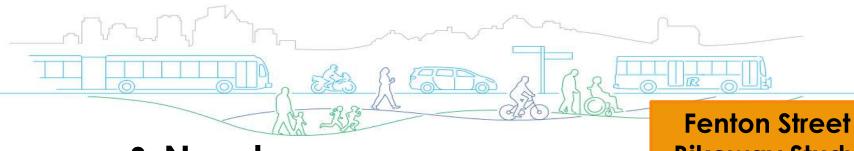
Fenton/410 Intersection



Fenton Street Bikeway Study

- The Bikeway Study was initially started in 2017 and was put on hold to allow for Garage 3 to open and to expand the range of alternatives.
- The study was restarted in 2019.
- In February 2021, the T&E
 Committee selected
 Alternative E as the
 preferred concept.



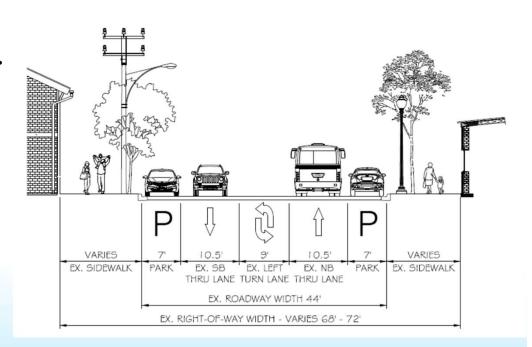


Purpose & Need

- 1. Improve bicycle and pedestrian safety and comfort in the Fenton Street corridor
- 2. Improve bicycle connectivity within and beyond downtown Silver Spring
- 3. Provide balanced, multimodal transportation options for all Fenton Street users.



- South of Roeder Road, Fenton Street is 44' wide curb-to-curb.
- North of Roeder,
 Fenton Street is 48'
 wide curb-to-curb.
- The Master Planned right-of-way is 80', but actual right-of-way varies from 64' to 80'.



Alternative E

Common Features

- 10
- There are some common features that are present in each alternative:
 - At least one travel lane in each direction for vehicles
 - On-street parking
 - On-street loading areas
 - 5' or wider accessible sidewalks
 - Two-way west side bikeway
 - Raised bikeway barrier
 - Floating bus stops
 - Corner island treatments



Raised barrier, Spring @ Colesville



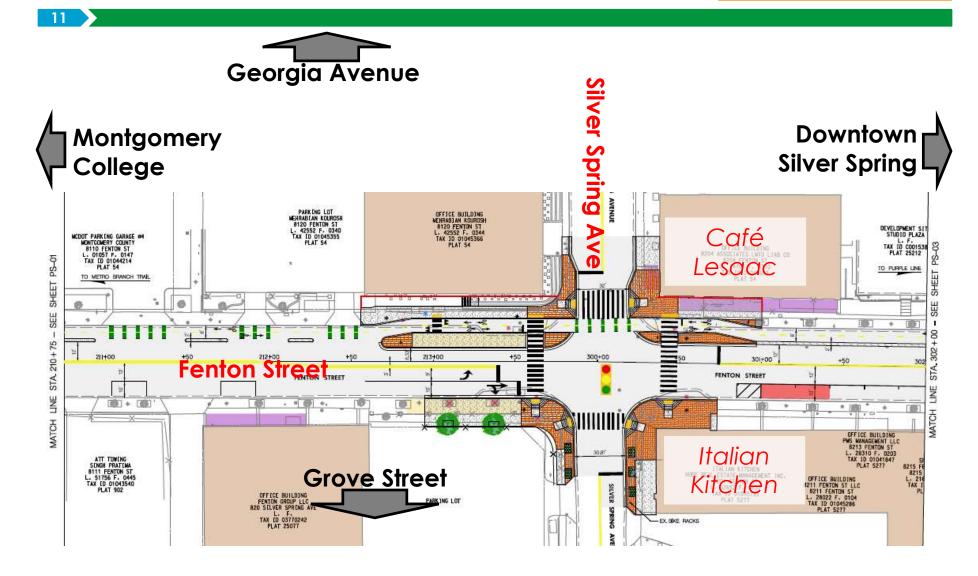
Floating bus stop, 2nd @ Colesville



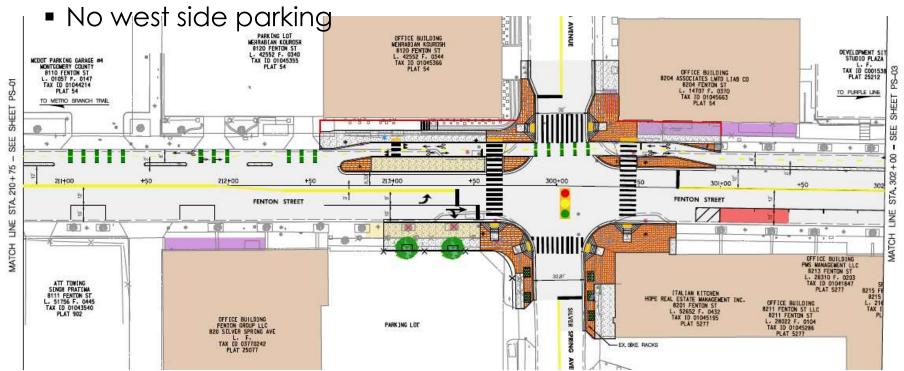
Corner island, 2nd & Spring

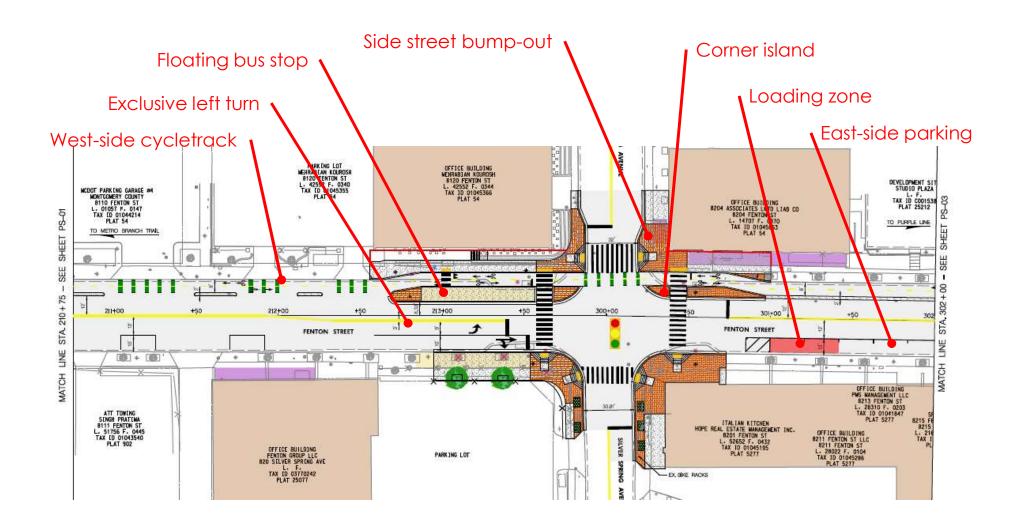
Alternative Orientation

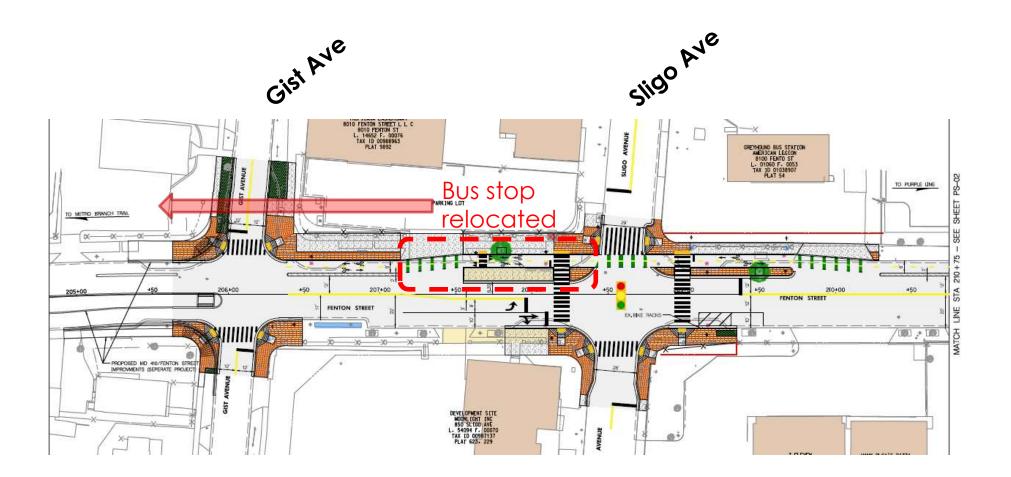
Fenton Street
Bikeway Study

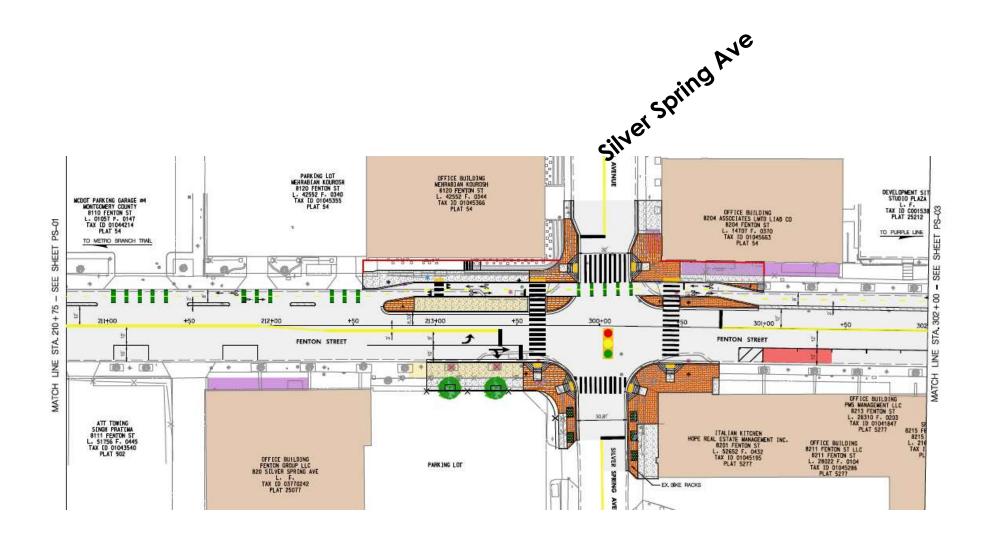


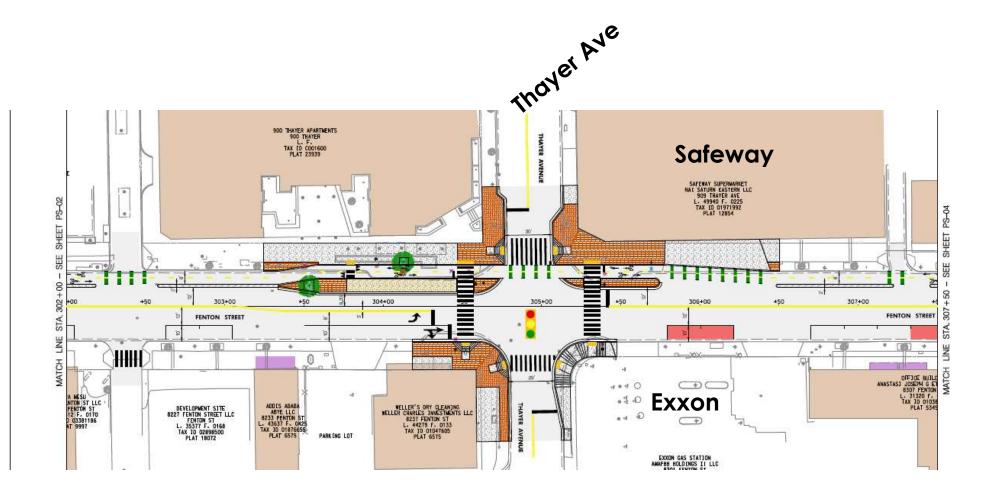
- No widening in Fenton Village
- Prioritizes NB left-turn protection and motorist throughput
- Left turn lanes for NB traffic
- Lack of SB left turn lane saves parking, but may cause delay

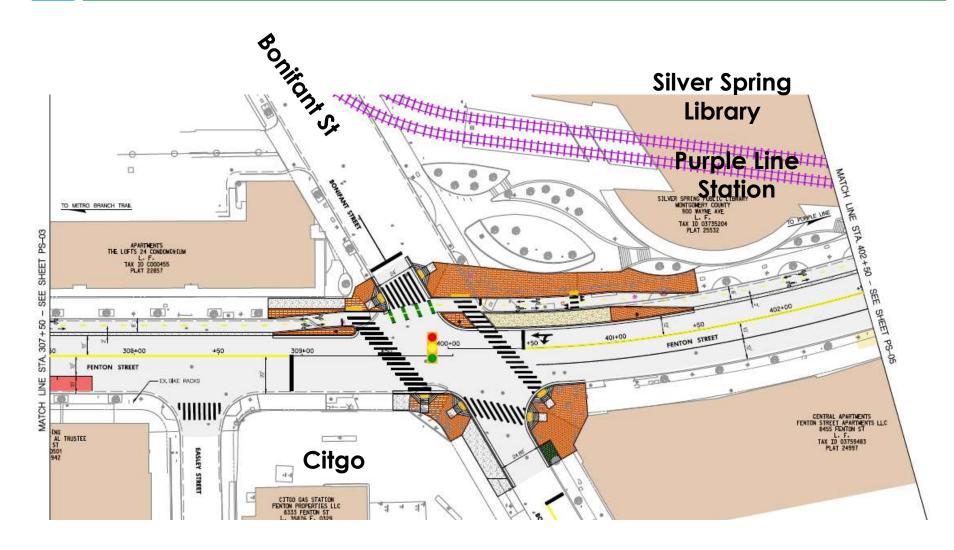






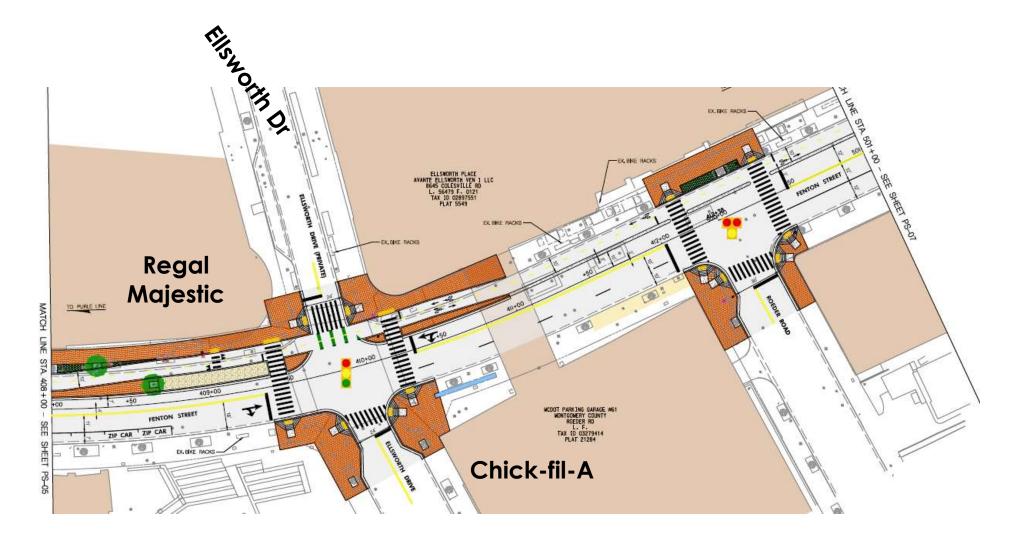






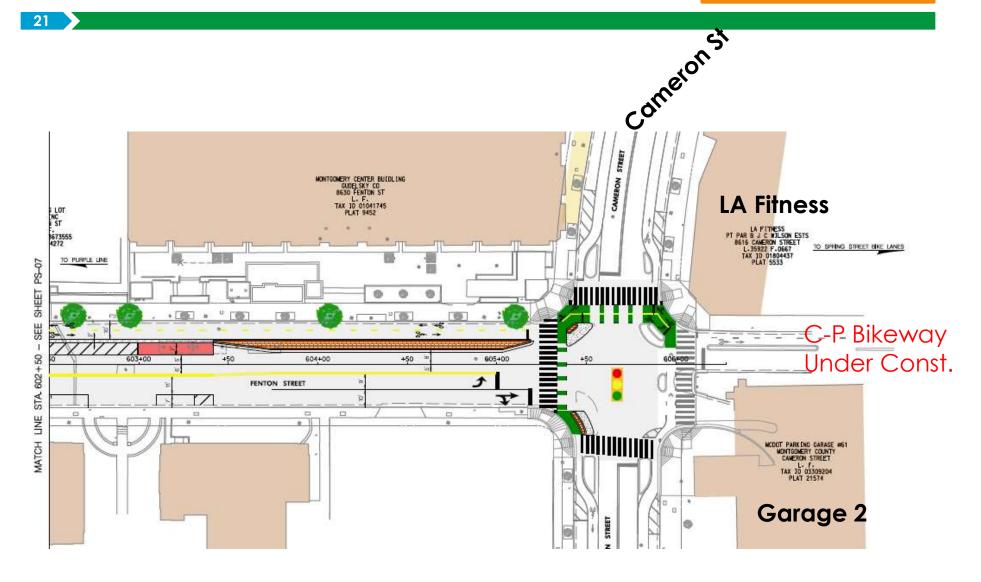
Alternative E – South to North **Bikeway Study**

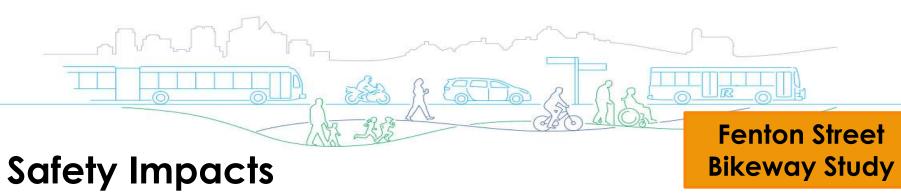




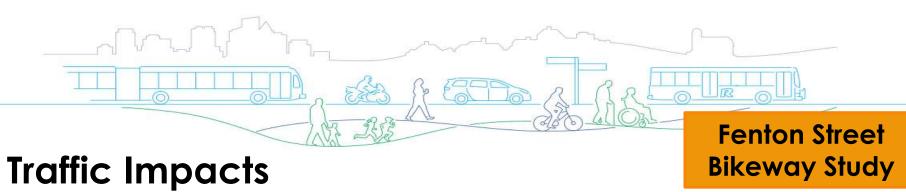
- SEE SHEET PS-06 MATCH LINE STA. 501+00 FENTON STREET Lane configurationery ANNS APART PARTIES OF THE CONTROL OF T US 29 (COLLESVILL

Alternative E - South to North

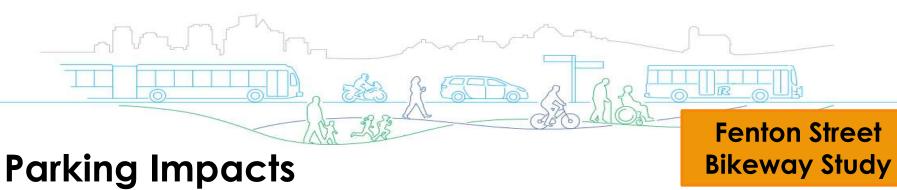




Alternative	Left Turn Protection?
Existing	N/A
Alt A	No
Alt B	Yes
Alt C	Yes
Alt D	No
Alt E	Yes
Alt F	Yes
Alt G	Yes



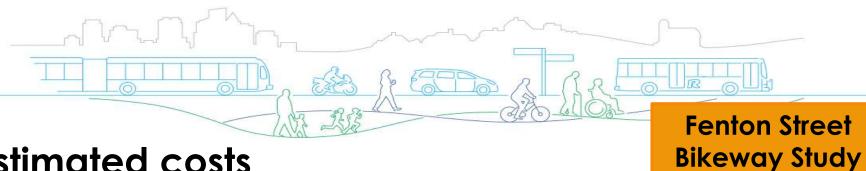
Alternative	Average End- to End Travel (min:sec)	Change (min:sec)	
Existing	4:06	-	
Alt A	7:30	+3:24	Most impact to traffic congestion
Alt B	5:00	+0:54	
Alt C	4:48	+0:42	
Alt D	7:30	+3:24	Most impact to traffic congestion
Alt E	4:48	+0:42	
Alt F	4:48	+0:42	
Alt G	4:42	+0:36	Least impact to traffic congestion



Alternative	Total On- Street Parking	Change
Existing	91	-
Alt A	94	+3
Alt B	43	-48
Alt C	65	-26
Alt D	61	-30
Alt E	43	-48
Alt F	54	-37
Alt G	56	-35



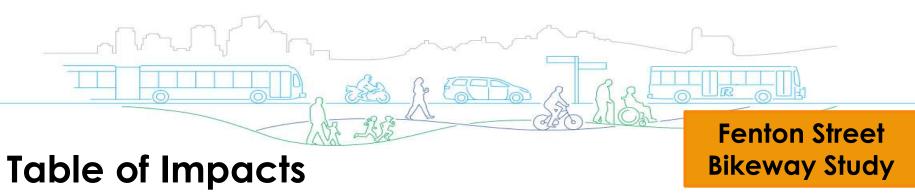
parking



Estimated costs

Alternative	Cost Estimate	
Existing	N/A	
Alt A	\$10.3M - \$13.6M	
Alt B	\$10.3M - \$13.7M	Most expensive
Alt C	\$10.3M - \$13.7M	Most expensive
Alt D	\$8.1M - \$10.9M	Cheapest
Alt E	\$8.1M - \$10.9M	Cheapest
Alt F	\$9.1M - \$12.2M	
Alt G	\$9.1M - \$12.2M	

*At this stage of design, costs are very conceptual, and are conservative, meaning they assume the worst case scenario. At this stage of design, a 40% contingency is included in the estimate.



Alternative	Safety	Traffic	Parking	Cost
Existing	-	-	-	-
Alt A	less	worst	best	\$\$\$
Alt B	more		worst	\$\$\$
Alt C	more			\$\$\$
Alt D	less	worst		\$
Alt E	more		worst	\$
Alt F	more			\$\$
Alt G	more	best		\$\$

Traffic

- Within the study area, there are 8 signalized intersections.
 - MD 410 is outside the study area and is not included in that count.
- Two HAWK signals are planned by MCDOT under a separate project.







Intersections

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- Of the 9* signalized intersections in the Fenton Cycletrack & Fenton/410 Projects, 4 are SHA and 5 are County signals.
- 2 HAWK signals are planned as part of a separate MDOT project at Fenton/Roeder & Fenton/Pershing.
- A HAWK is being considered at Fenton/Gist as part of the Fenton/410 project.

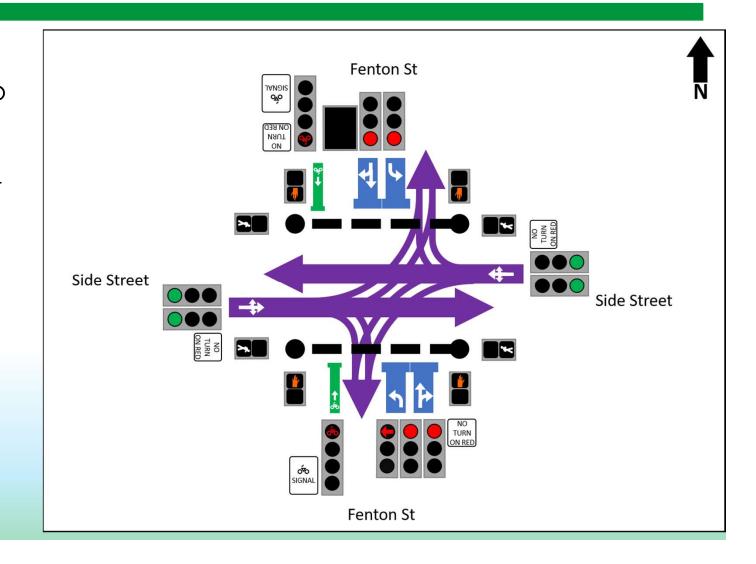
*Philadelphia Ave is part of the Fenton/410 Project and is shown for reference only.



- We would like to include bike signals as part of this project.
- However, there are a few hurdles related to the strict rules FHWA has placed around the use of bike signals.
- Montgomery County has 1 intersection with bike signals in operation (2nd/Wayne & Colesville), installed in 2019.
- 4 additional intersections with bike signals will be activated this summer, with a 5th anticipated this fall.

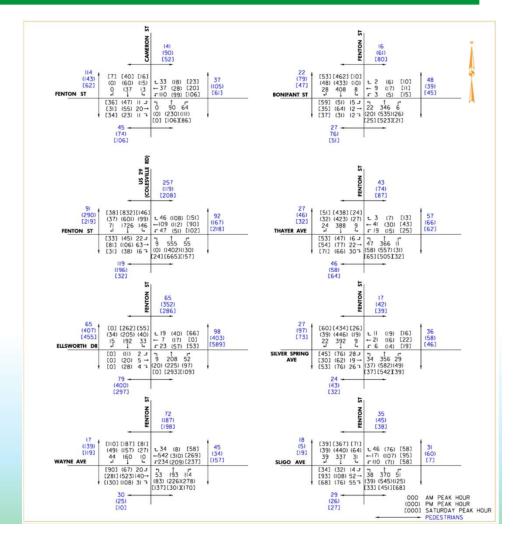


MCDOT is planning to seek a Request to Experiment (RTE) from FHWA to allow for a permissive right turn conflict across the bikeway.



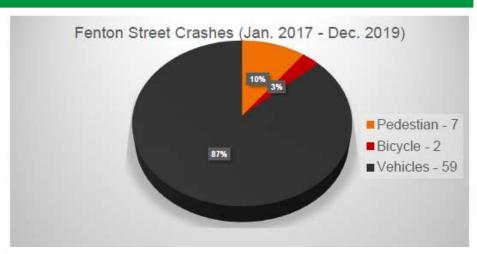
Traffic volume data, including bicyclists and pedestrians, was collected in 2017 and 2020.

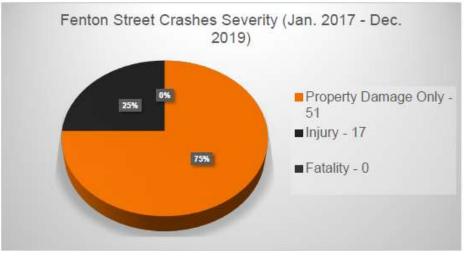
- Average Daily Traffic on Fenton Street is around 10,500.
- Bicycle volumes on Fenton Street are currently around 4-5 per hour.



Crash Data

- Most crashes involve vehicles, but 10% involve pedestrians, and 3% bicyclists.
- 75% of crashes in the corridor did not result in injury.
- There were no fatalities during the observed period.





Parking & Loading 34

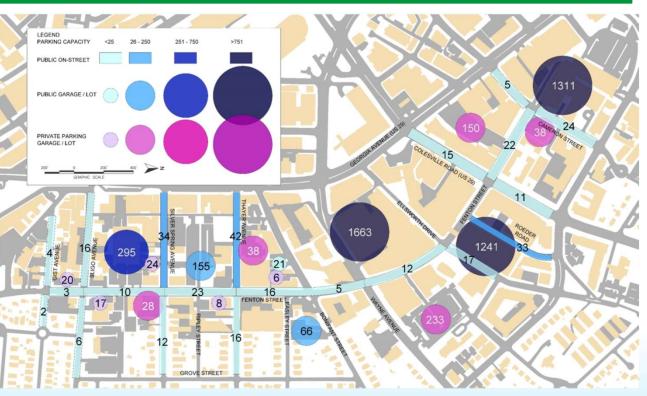
 There are currently 91 onstreet parking spaces on Fenton Street.

- The east-west streets within one block have
 207 on-street spaces.
- Public lots/ garages within one block have
 4,741 spaces.



 On-street parking utilization on Fenton Street ranges from 59% to 95%.

 Garage and lot parking utilization ranges from 33% (Garage 3) to 88% (Lot 2).



In Fenton Village, average on-street utilization (Fenton & side streets) is between 73% and 79%.

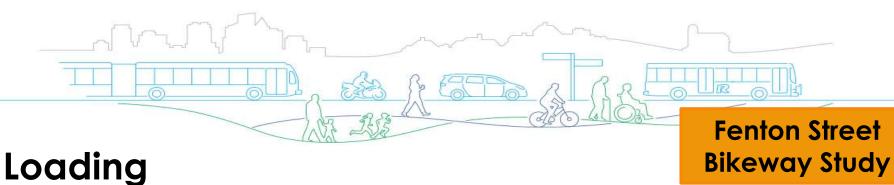
In the Ellsworth District, average on-street utilization (Fenton & side streets) is between 66% and 83%.

In North Silver Spring, average on-street utilization (Fenton & side streets) is between 83% and 91%.

- Loading is a critical need in the corridor, for business deliveries, parcel services, food pickup services, paratransit, and ride-hailing apps.
- We spoke to 37 businesses in the corridor to understand their needs.
- Delivery needs range from large truck+trailer combinations to box trucks and even vans and cars.
- Loading is more typical in the morning, but can happen any time.
- We will continue to work to accommodate specific loading needs during the design process.







- Examples
 - Locksmith
 - Drycleaners
 - Fuel
 - Food
 - Doordash/Ubereats
- We know one-size-fits-all is not going to work here. We will need specific solutions for specific locations.



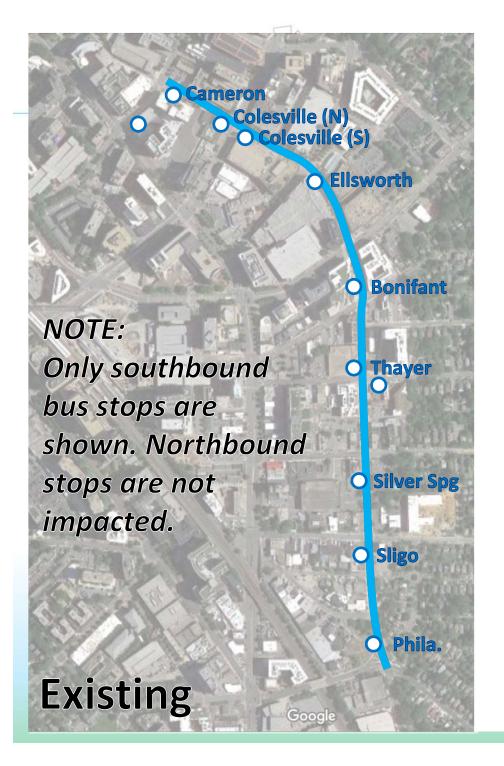


- Council instructed us to find ways to accommodate loading on *both* sides of Fenton Street.
- The base Alternative E design has parking and loading on the east side only, so it will need to be modified.
- Our goal is to minimize loss of parking where possible.
- We would like to explore the installation of ADA parking in the corridor.
- At the Montgomery Center, we are planning to install a paratransit loading zone on the west side of the street, just south of Cameron.

Transit

- Fenton Street carries 4
 Ride On bus lines and one
 Metrobus line.
- Several other bus lines cross Fenton Street.
- The Purple Line is planned to open in 2023/2024.
- Accommodating bus stops will be a critical effort during design.





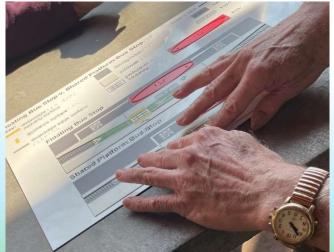


Urban Environment / Low Vision Wayfinding

Sidewalks / Low Vision Wayfinding

- MCDOT has a grant from MWCOG to develop a Toolkit and a Pilot Design for best practices navigation treatments for people with vision impairments.
- Fenton from Ellsworth to Thayer will be the location for the Pilot.





Stormwater Management

 Our goal is to use stormwater management best practices to the maximum extent feasible.

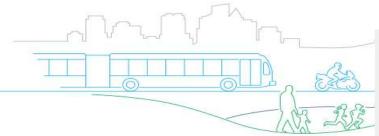




Oakland, CA

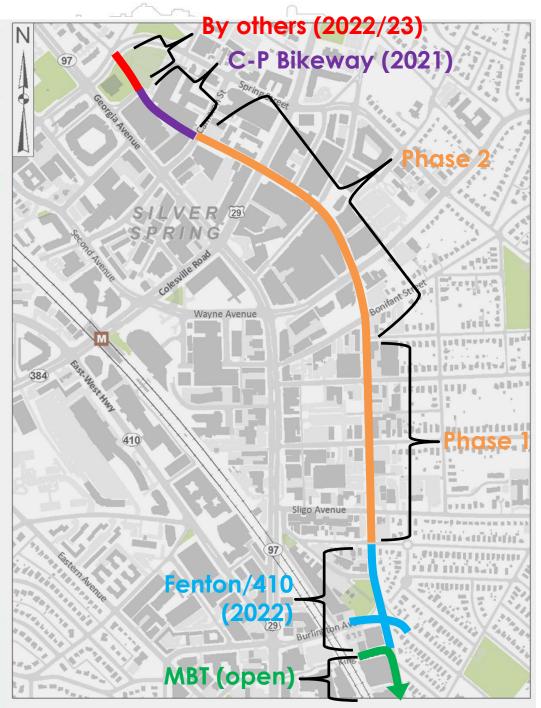
← Lincoln, NE

Next Steps 46



Phasing

- The corridor is long and complex.
- It is likely that the project will be constructed in phases.
- We don't know exactly where the phases will be split at this time.
- The graphic at right shows one concept.



- Design effort started this month (May 2021).
- Community meeting in June 2021 to collect additional feedback.
- At 30% design, a community meeting followed by Mandatory Referral. This is anticipated for Fall 2021.
- After 65% design, another community meeting.
- After 90% design, final community meeting.
- Shooting for construction in 2023 for the first phase.

Questions

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Project webpage: https://tinyurl.com/FentonVillage

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