

# BICYCLING IMPROVEMENT OPPORTUNITIES

City of Fort Collins – Transportation Board Meeting  
November 18, 2020

***Bike Fort Collins' intent is to maintain a fluid list of intersections and road facilities that represent opportunities for improving the bicycling experience for all.***

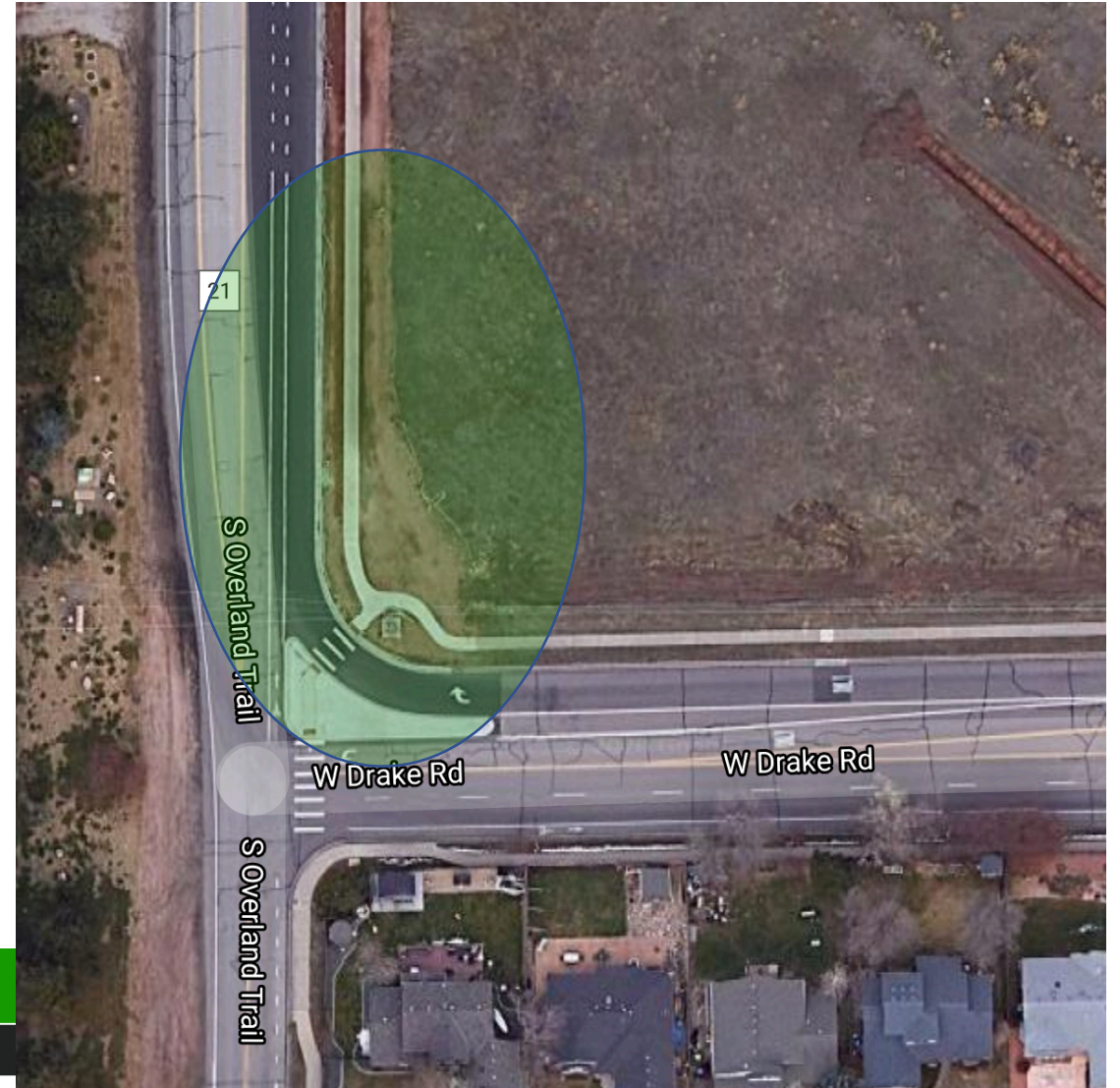
# Three Initial Opportunities

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- Drake Road & Overland Trail
- Elizabeth Street & Shields Street
- Elizabeth Street & Taft Hill Road

# Drake Road & Overland Trail

- Problem/Issue:
  - Lack of cross-traffic warning signage for motorists on WB Drake as they approach turn on to NB Overland
  - Vehicular traffic doesn't always adhere to the NB merge lane after making the turn (especially dangerous in presence of cyclists)

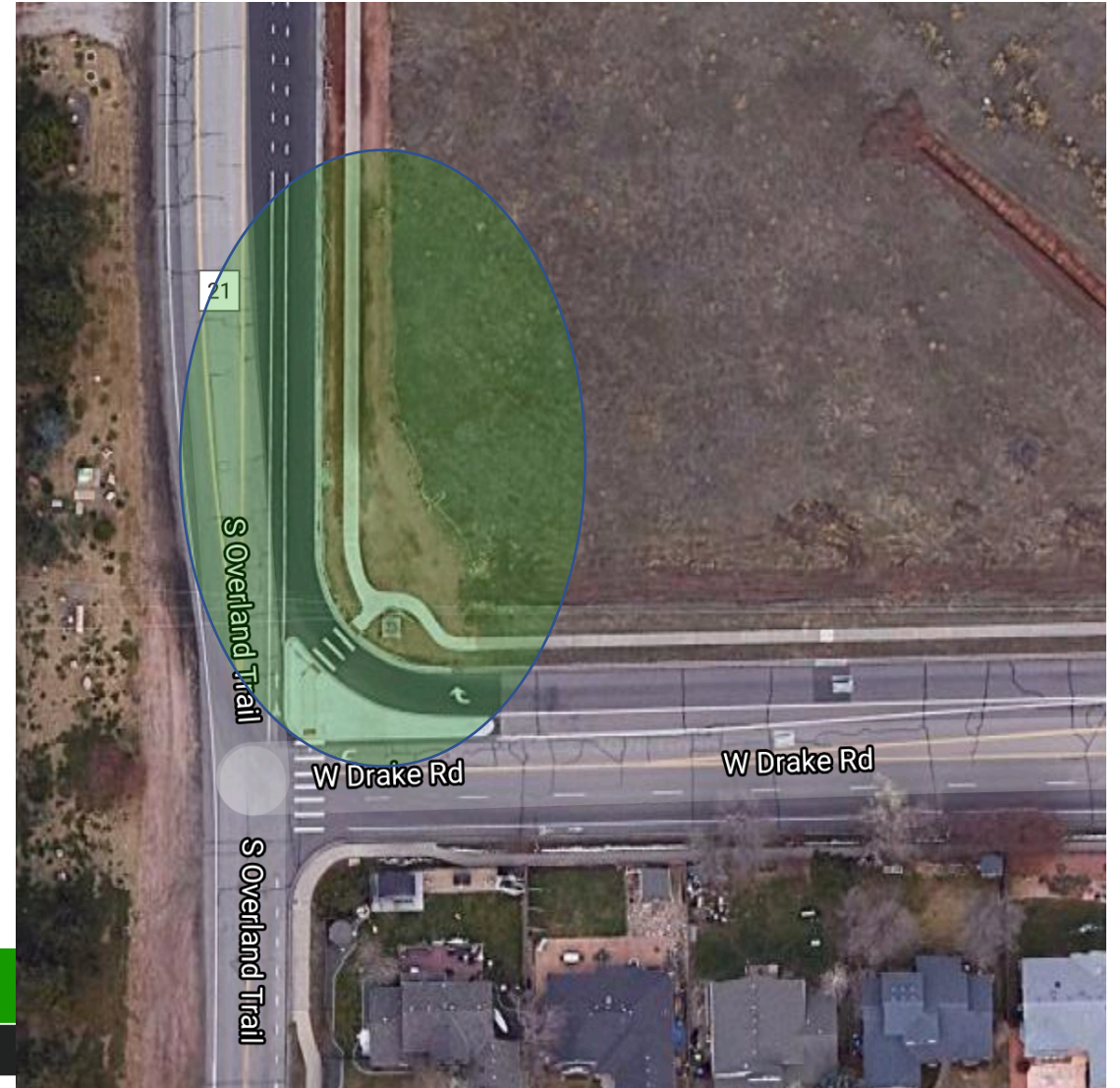




# Drake Road & Overland Trail

- Survey Results:
  - Over 70% of respondents\* cited having had conflict or right-of-way confusion
  - *“Westbound Drake traffic have not observed solid lines indicating that a merge should not be made until the dotted line section. Near misses and nervousness occur often. I definitely would not take my kids through this intersection.”*
  - *“Car attempted to move through bike lane.”*

\*28 total respondents



# Drake Road & Overland Trail

- Cyclist Experience (NB Overland):





# Drake Road & Overland Trail

- Motorist Experience (WB Drake):

*Propose improved signage to better prepare motorists for crossing traffic/cyclists*

*Propose curbing, jersey barrier, or plastic delineator on edge of bike lane and merge lane (north of intersection)*

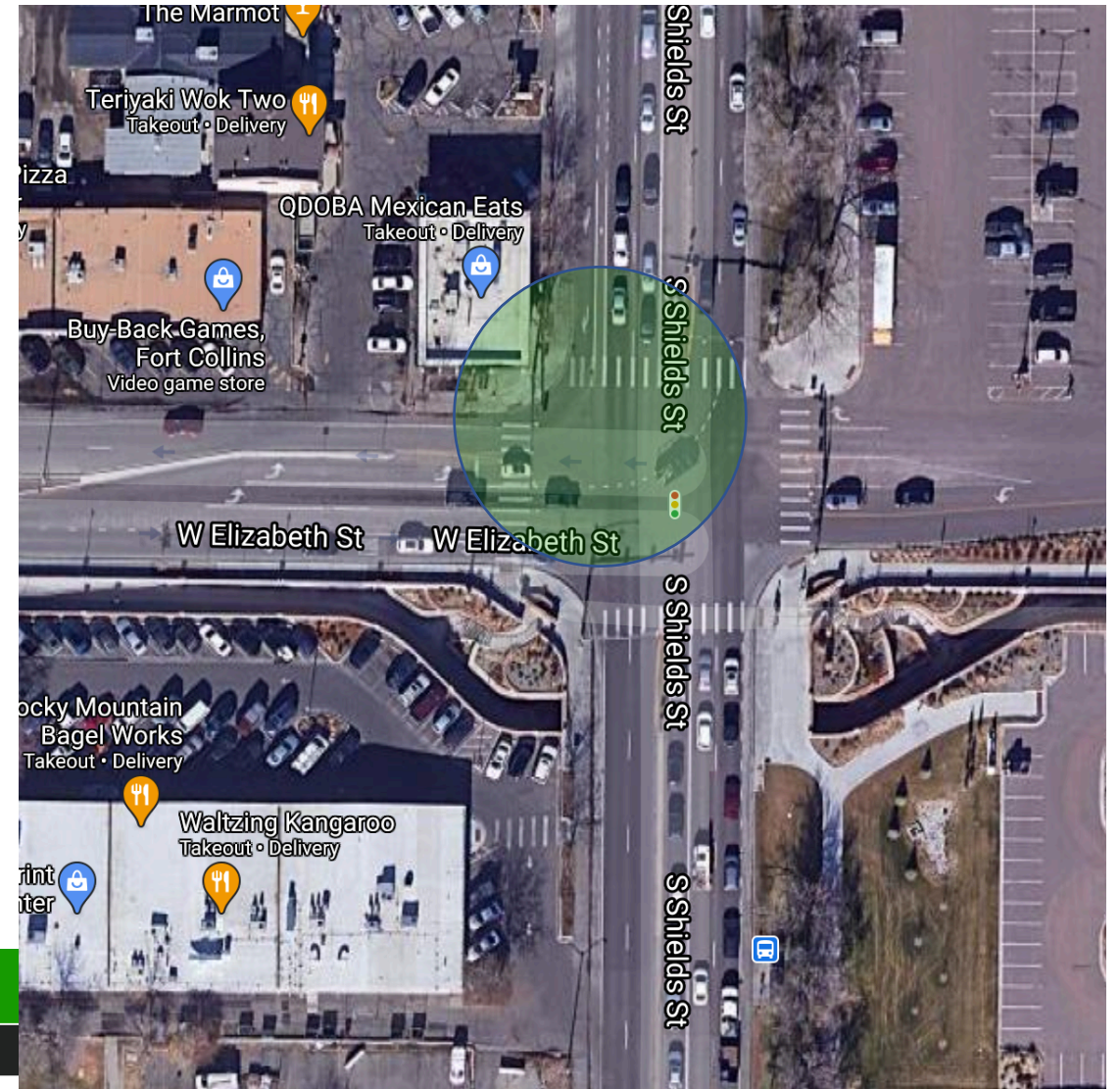


# Elizabeth Street & Shields Street

- 2014 Bike Plan – One of the highest scoring Low Stress Network Prioritized Intersections

Chart 1: 2020 Low-Stress Network Prioritized Intersections

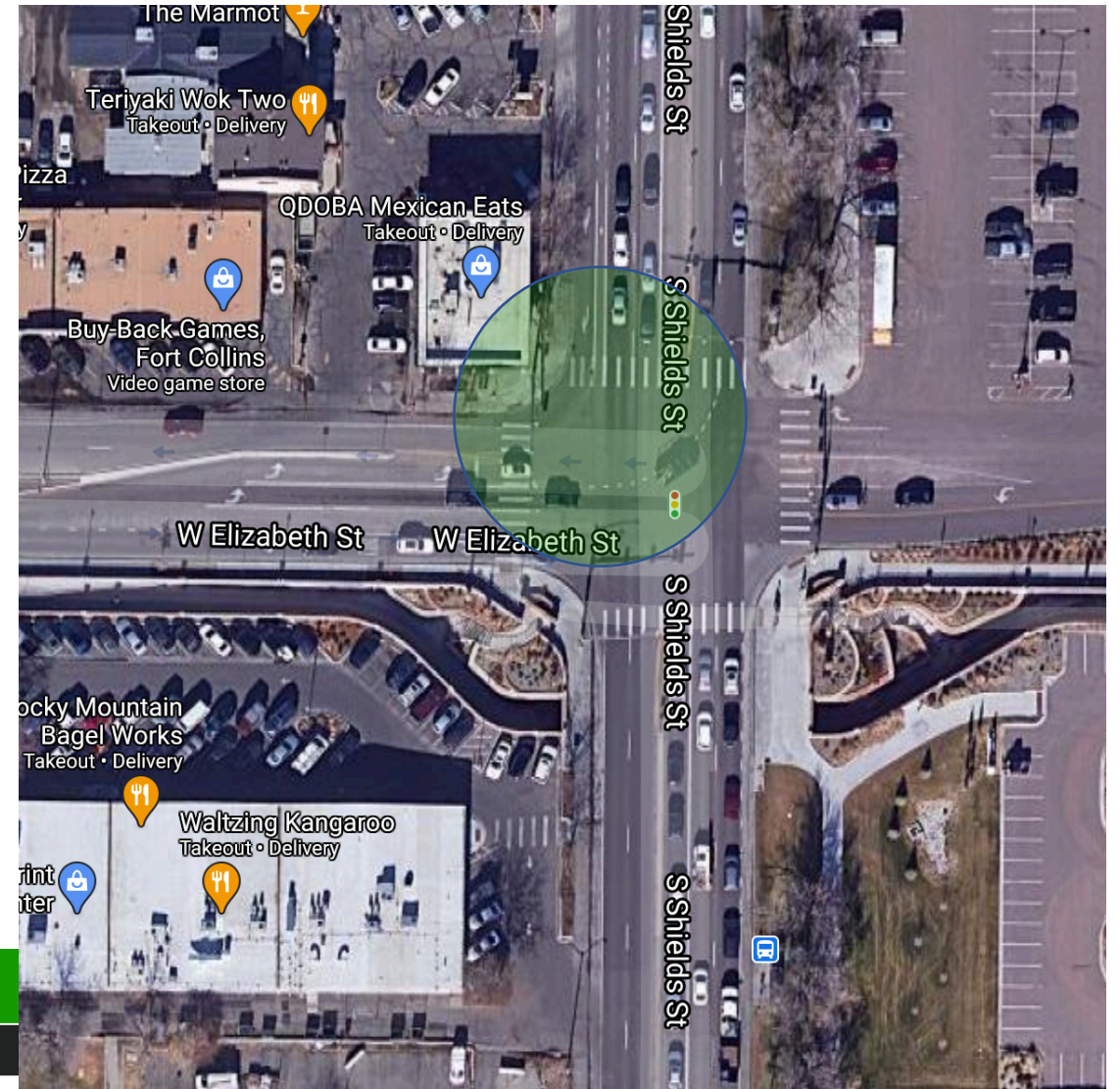
| Intersection          | Evaluation Criteria |         |          |              | Total Intersection Analysis Score (0-40) |
|-----------------------|---------------------|---------|----------|--------------|--|
|                       | Demand              | Crashes | Barriers | Public Input |  |
| College & Laurel      | 10.00               | 5.56    | 6.67     | 7.91         | 30.14                                    |
| Elizabeth & Shields   | 8.65                | 7.22    | 3.33     | 6.40         | 25.60                                    |
| Elizabeth & Taft Hill | 5.95                | 3.89    | 10.00    | 2.67         | 22.51                                    |
| Prospect & Shields    | 7.84                | 6.11    | 1.67     | 5.70         | 21.31                                    |
| City Park & Elizabeth | 5.95                | 10.00   | 0.00     | 0.12         | 16.06                                    |
| Center & Prospect     | 7.30                | 2.22    | 3.33     | 3.02         | 15.88                                    |





# Elizabeth Street & Shields Street

- Problem/Issue:
  - NB Shields to WB Elizabeth vehicular traffic commonly turns in front of SB cyclists
  - Uncomfortable, narrow SB Shields bike lane sandwiched by thru-lane and right turn lane
  - Poorly lit in low daylight/nighttime



# Elizabeth Street & Shields Street

- Cyclist Experience (SB Shields):

*Good location for a bike box on north side of SB lanes of Shields for cyclist safety, as well as traffic calming*

*Propose curbing, jersey barrier, or plastic delineator on each side of bike lane*



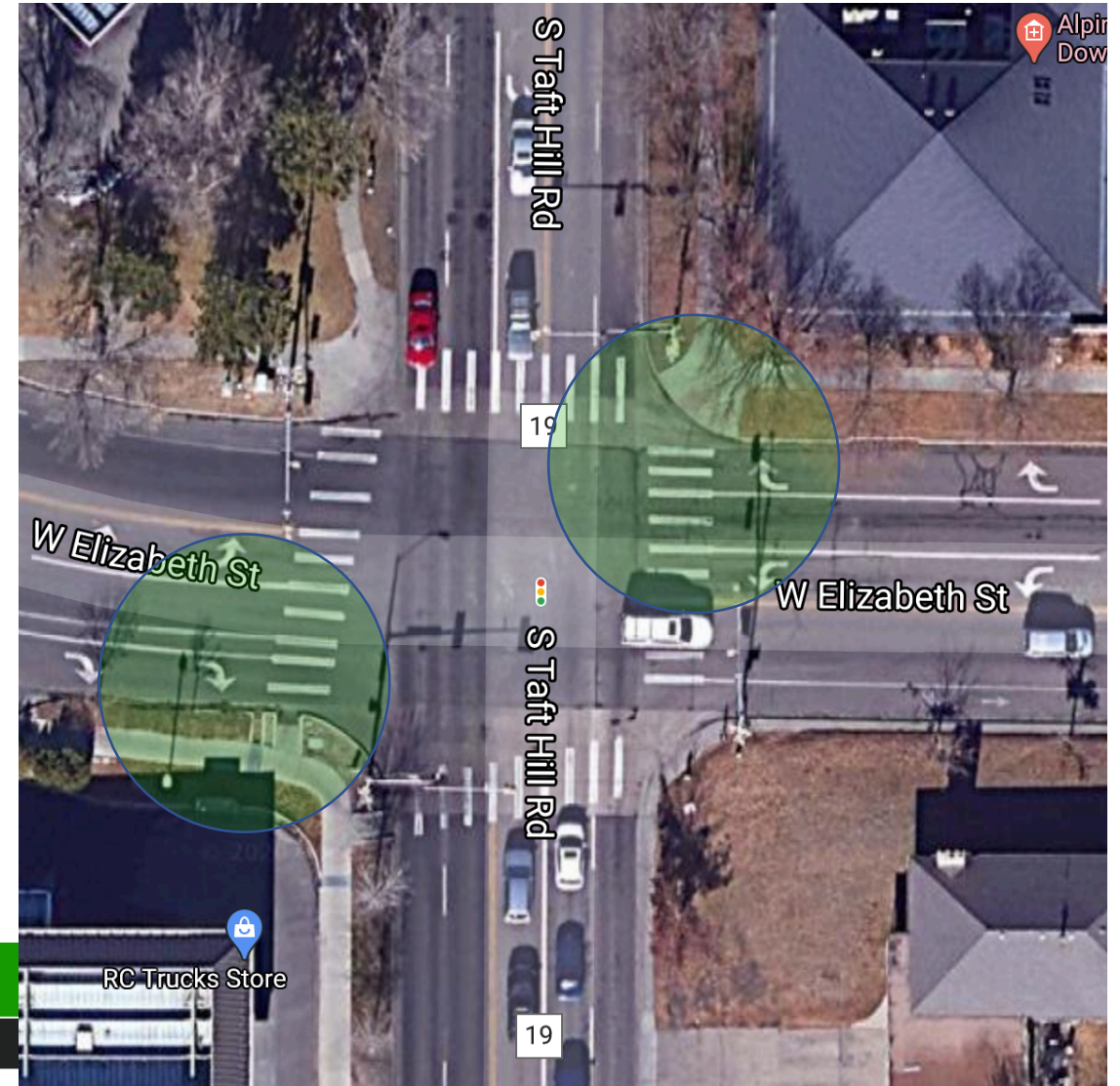


# Elizabeth Street & Taft Hill Road

- 2014 Bike Plan - One of the highest scoring Low Stress Network Prioritized Intersections

Chart 1: 2020 Low-Stress Network Prioritized Intersections

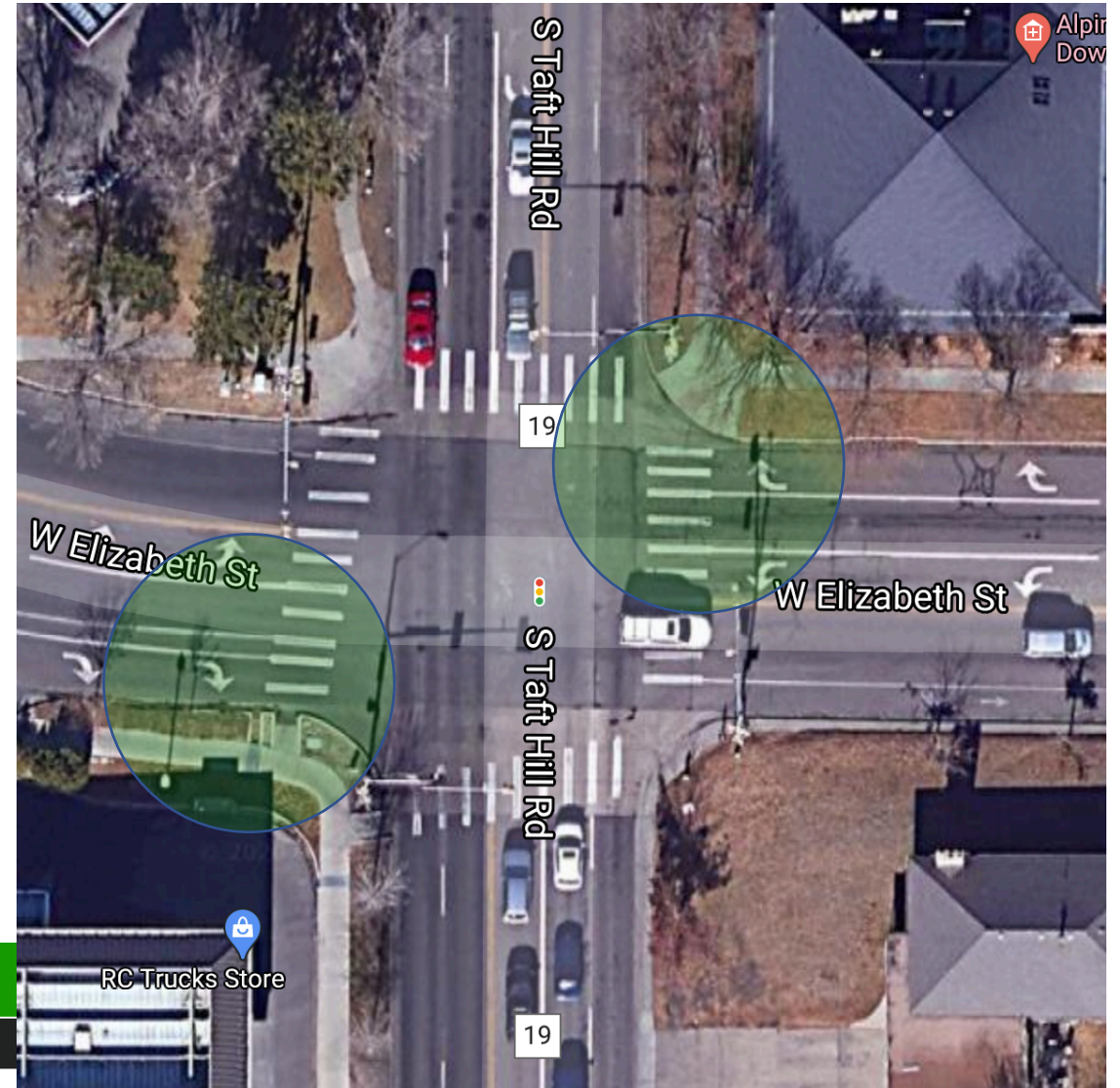
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# Elizabeth Street & Taft Hill Road

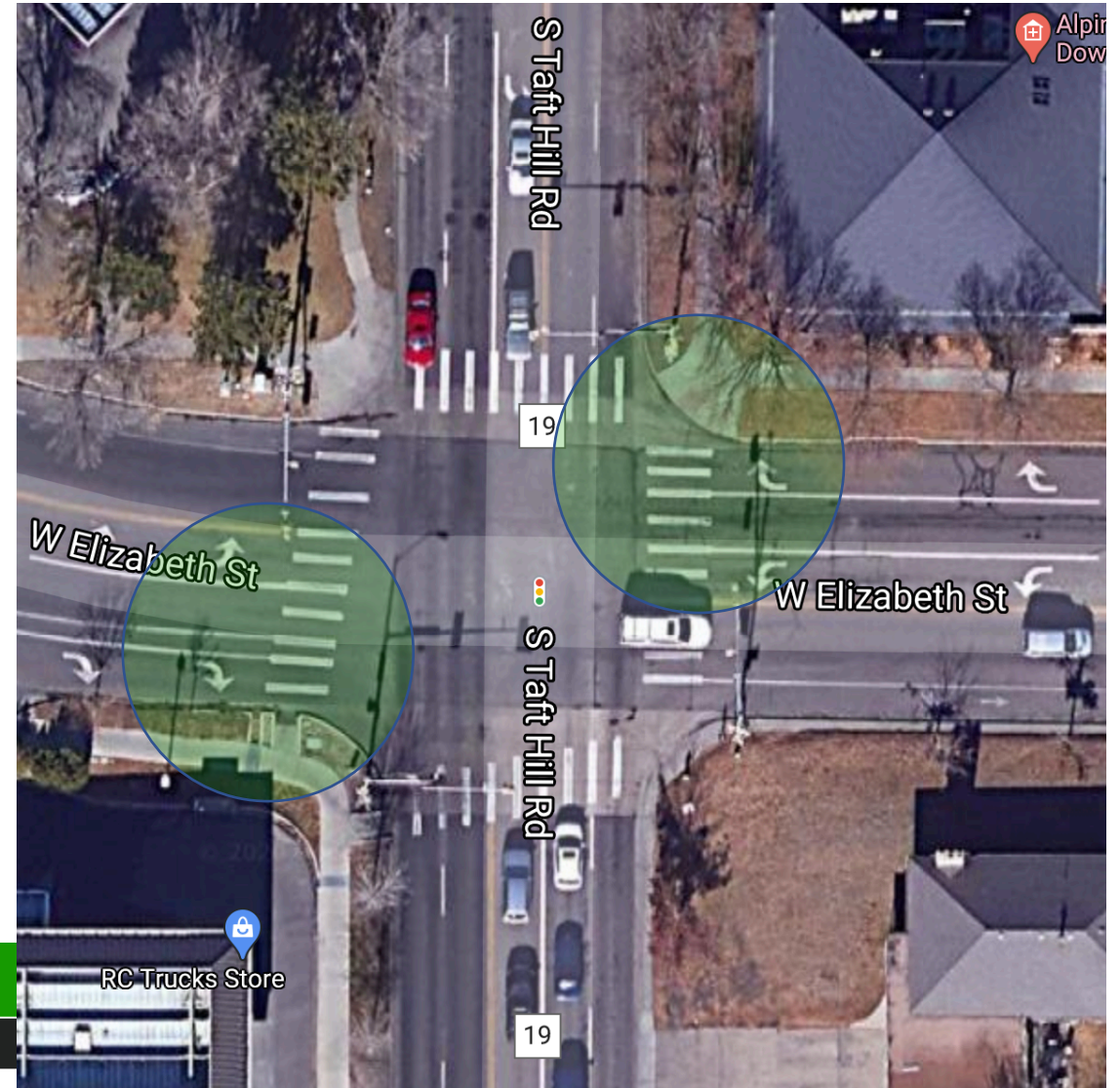
- Problem/Issue:
  - (WB) Cyclist must "take" right turn lane - potential back up right turning vehicular traffic (angers motorists)
  - (EB) Uncomfortable, narrow bike lane being sandwiched by thru-lane and right turn lane



# Elizabeth Street & Taft Hill Road

- Survey Results:
  - 75% of respondents\* cited having had conflict or right-of-way confusion
  - *"People have a hard time with a cyclist blocking the turn lane, or the zipper merge gets weird especially when the signal changes."*
  - *"Conflict in the westbound lane of Elizabeth St. bike lane ends before intersection and car in right turn lane became angry that I was in the far left portion of the turn lane preventing them from turning right on red."*

\*12 total respondents





# Elizabeth Street & Taft Hill Road

- Cyclist Experience (WB Elizabeth):



# Elizabeth Street & Taft Hill Road

- Cyclist Experience (EB Elizabeth):



# Elizabeth Street & Taft Hill Road

- *Need to ensure this is part of the W. Elizabeth Travel Corridor Study*
- *Is there anything already being considered at this intersection?*
- *Are there better, or what is a better solution other than a sharrow (WB) and narrow bike lane (EB)?*
  - *Road diet (WB)–Remove a turn lane to create bike lane? Bike box?*
  - *Bike box (EB)*





# Miss Anything?

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- Are there any intersections or road facilities that we've missed?
  - Let us know—can add to the list and/or highlight and present on the intersection road facility or area at a future meeting.
- Would love to come back to share more/other opportunities
- Teaser(s)
  - Taft Hill & Poudre Trail Crossing
  - LeMay Bike Lanes
  - Elizabeth Street & College Ave.

# THANK YOU

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