



East Avenue Traffic Calming Project Update

August 23rd, 2022



Introductions

Drew Gingras, PE
Project Manager

Jenn Conley, PE, PTOE
Technical Advisor

Julia Ursaki
Transportation Engineer

Laura Wheelock, PE
Senior Public Works Engineer



Meeting Agenda

- Project Background / Review
- Project to Date
- Evaluation of Additional Alternatives
- Recommendation for Project Moving Forward
- Next Steps



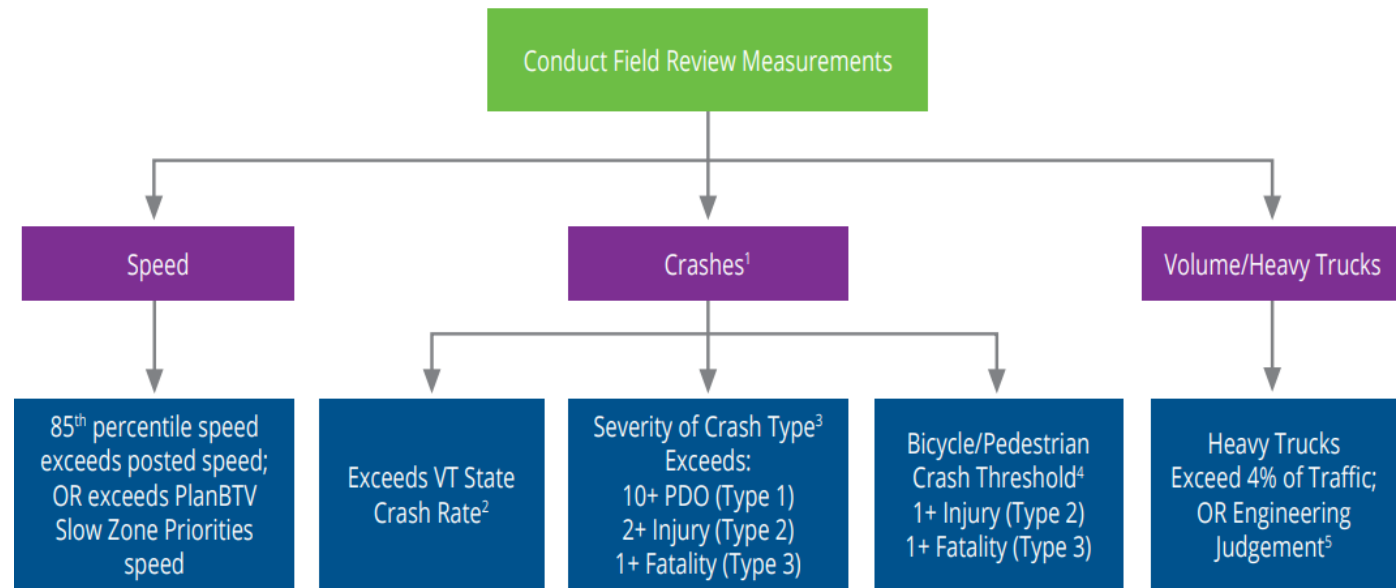
Project Background

- Roadway Width = 35'
 - Bike Lane (west side) = 5'
 - Vehicle Travel Lanes = 22'
 - On-Street Parallel Parking (east side) = 8'
 - Greenbelt & Sidewalk (east side)
 - Two Crosswalks
- Roadway AADT (Annual Average Daily Traffic) is between 7,800 and 8,900 vehicles
- Traffic Calming Request from neighborhood in May 2017



Traffic Calming Program

- After receiving traffic calming request, City looked at speeds and crash history
- Found that East Ave meets/exceeds speed threshold
 - Existing 85th percentile speeds: 33 mph on south end, 28mph on north end
 - 25mph posted speed (threshold)
- Found that East Ave meets/exceeds crash thresholds
 - 85 crashes occurred over a 5-year period
 - 5 involving bicyclists or pedestrians
 - 9 crashes resulted in an injury



What needs addressing?

- Design for max speed of 25mph
- Reduce frequency of crashes
- Prevent crashes involving people walking / bike
- University Road Intersection
 - Enhance pedestrian crossing
 - Improve stop sign compliance
- Sensitivity to Resident Permit Parking



Project to Date

- 2017: Traffic Calming request from neighborhood
- 2021: RRFB was installed at East Ave & Bilodeau Ct crosswalk
- Dec 2021 / Jan 2022: Concept Development
- Feb 15, 2022: Neighborhood Meeting #1
- Feb / March 2022: Public Comment
- April / May 2022: Further Public Conversation
- June / July 2022: Evaluation of Additional Alternatives (in north end of project area)
- **August 23, 2022: Neighborhood Meeting #2**



What we *Heard* & What we *Did*

- Traffic Calming Recommendation: Raised Medians / Chicanes with Raised Crossing at Bilodeau Ct
- Heard concerns over reduction of four parking spaces in the northern block
- Follow up meetings / discussions with DPW Project Team
- Evaluated three additional alternatives that limit impacts to parking on the northern block

Feb 15, 2022: Neighborhood Meeting #1

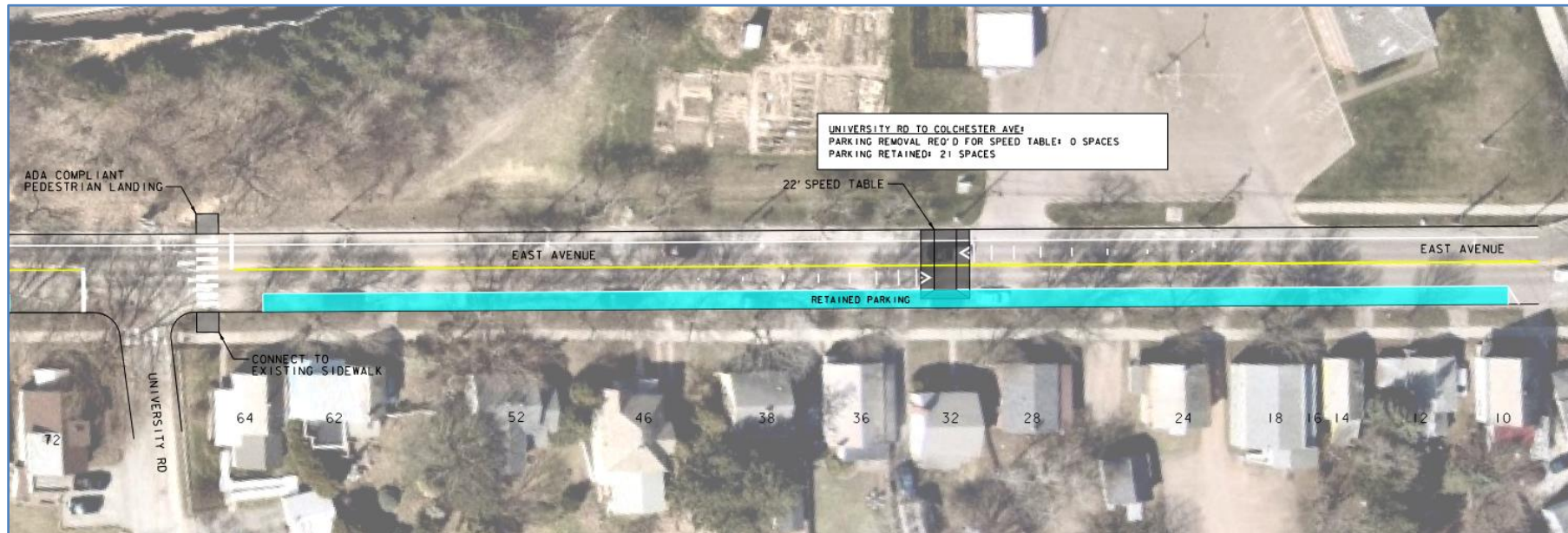
Traffic Calming Recommendation: Raised Medians / Chicanes with Raised Crossing at Bilodeau Ct

- Raised Medians / Chicanes
 - Spaced approximately every 300'-400'
 - Anticipated Speed Reduction: 6-9mph
- Raised Crossing at Bilodeau Court
 - Anticipated Speed Reduction: 6-9mph
- Pedestrian Crossing and Stop Compliance Enhancements at University Road
- Proposed traffic calming improvements will result in removal of 17 parking spaces along corridor



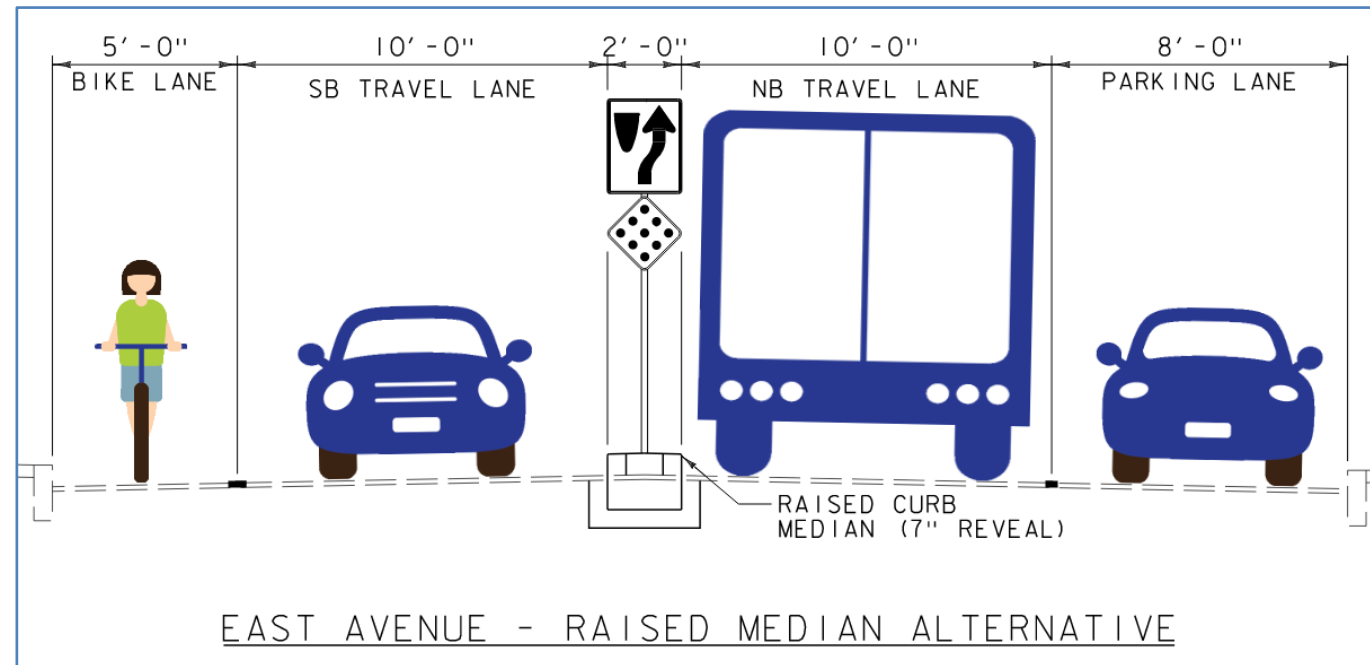
Evaluation of Additional Alternatives – Speed Hump / Table in North End of Project Area

- Traffic volume is too high
 - (8,000 AADT existing; 4,000 AADT appropriate threshold for installing speed humps)
- Emergency vehicle and hospital route
- Arterial road (speed humps are appropriate for local or collector streets)



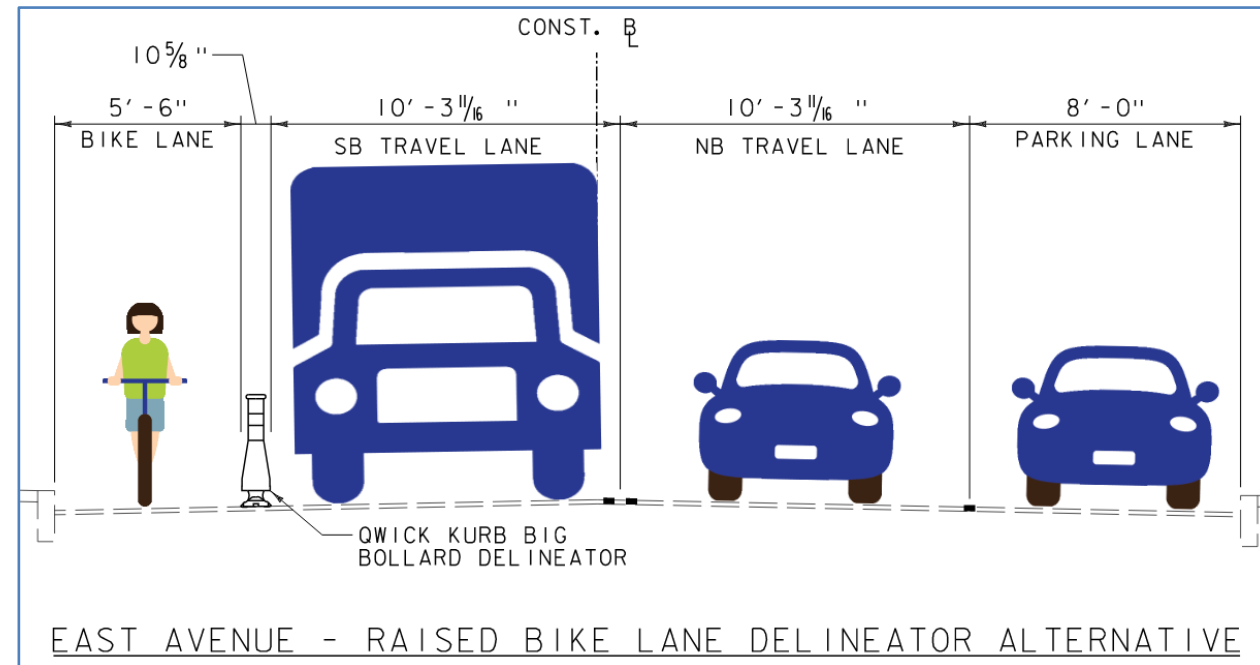
Evaluation of Additional Alternatives – Hardened / Raised Narrow Median Centerline

- Additional Alternative 2: Hardened / Raised Narrow Median Centerline
 - Unknown impact on traffic speeds
 - Narrows lanes but does not horizontally deflect traffic
 - Maintenance & constructability concerns
 - Treatment would not be continuous (numerous driveway breaks)



Evaluation of Additional Alternatives – Barrier Separated Bike Lane

- Additional Alternative 3: Barrier Separated Bike Lane
 - Improves bicyclist safety
 - Narrows travel lanes
 - Significant maintenance concern over removing snow from travel lanes
 - Unknown impact on traffic speeds
 - Maintenance concern over replacing and repairing bollards



Evaluation of Additional Alternatives – Phased Approach

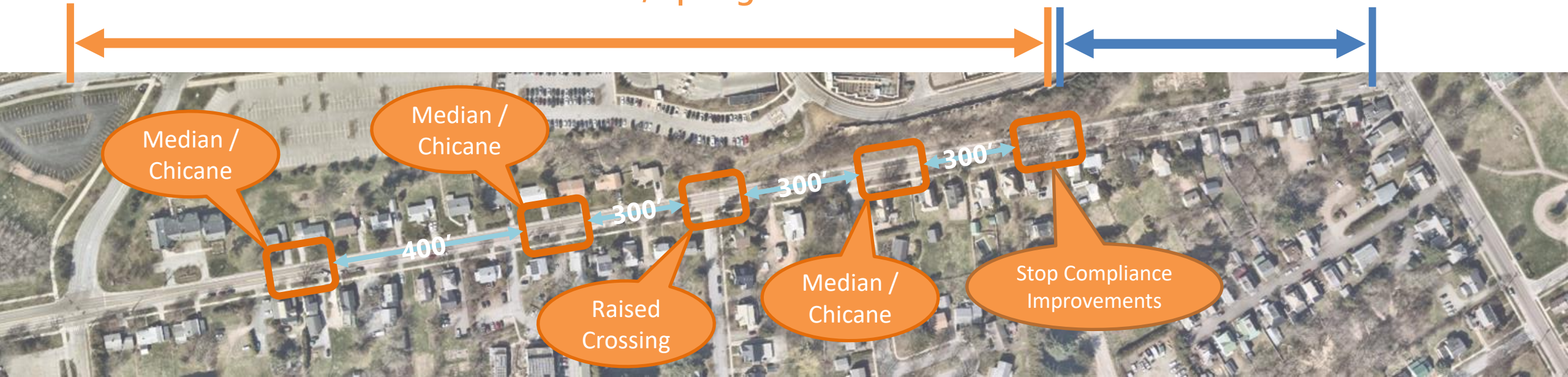
- Additional Alternative 4: Phased Approach

Northern Section
85th percentile speed- 28mph

Southern Section
85th percentile speed- 33mph

Phase 2- Northern end becomes its own, separate traffic calming request. New data collection and crash analysis after southern section is built

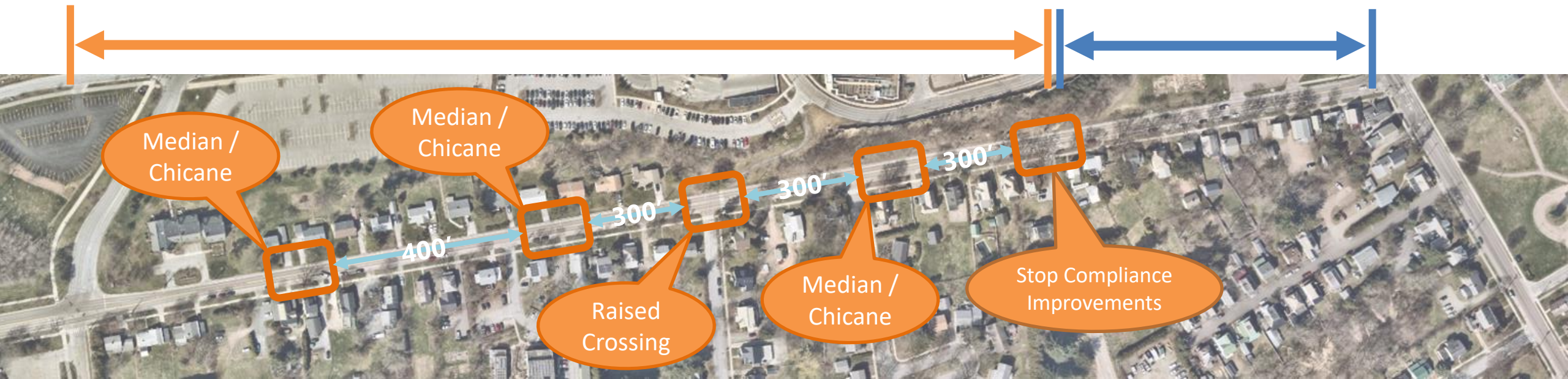
Phase 1 – Construction, Spring 2023



Recommendation for Project Moving Forward: Phased Approach

- Improvements to be Constructed in Spring 2023:
 - Median / Chicanes south of University Road
 - Raised Pedestrian Crossing at Bilodeau Court
 - Stop Compliance Improvements at University Road
- Speed and Crash Data Collection and Analysis to Follow

*** Determine improvements for north end based on data / findings from south end improvements and known impacts from nearby developments ***



Discussion



Next Steps...



Public Comment



Test the Recommended Alternative – September 2022 Pilot Project



Complete Final Engineering Design of South End Improvements



Construct Improvements – Spring 2023 Construction Season



Collect and Analyze Speed & Crash Data



Please Share Your Thoughts with Us



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