

Org Chart

Steering Committee

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Specialist

Third Sector Associates

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Dana WallProject Designer

STREETPLANS















Winooski Ave Transportation Study

Project Advisory Committee Meeting #6 | Evaluation

October 22, 2019

Project Advisory Committee Meeting #6: Agenda

- 1) Welcome, Introductions, Changes to the Agenda
- 2) Study: Purpose and Goals
- 3) Public Comment Period
- 4) Public Meeting Summary
- 5) PAC Actions
 - a) Evaluation Process
 - b) Concept Corridor and Intersection Options
 - c) Next Steps
 - Public Meeting
 - Implementation Plan
 - Final Report



What is this study?

A comprehensive transportation study of the entire Winooski Avenue corridor, developing multimodal improvement strategies that address safety, capacity, and connectivity.

Final deliverable: An actionable implementation plan with near-term and longer-term recommendations.



Corridor Vision

- Traveling along and across Winooski Avenue will be safe, inviting, and convenient for people of all ages and abilities using any mode of transportation.
- Walking and bicycling will be viable and enjoyable ways to travel this corridor. Improvements will encourage active travel and alternatives to personal vehicle use.
- Businesses will flourish with an activated streetscape and convenient access along and near Winooski Avenue.
- The **mobility and parking needs will be balanced** for property owners, residents, businesses and the greater transportation system.
- The street can adapt to changes to the transportation system and land use

Study Process

- 1. Existing Conditions and Corridor Vision
 - Public Meeting #1 September 5, 2018
- 2. Alternatives Development
 - Public Meeting #2

June 4, 2019

- 3. Alternatives Refinement and Evaluation
 - PAC Meeting #6

Today

Public Meeting #3

Mid-Nov

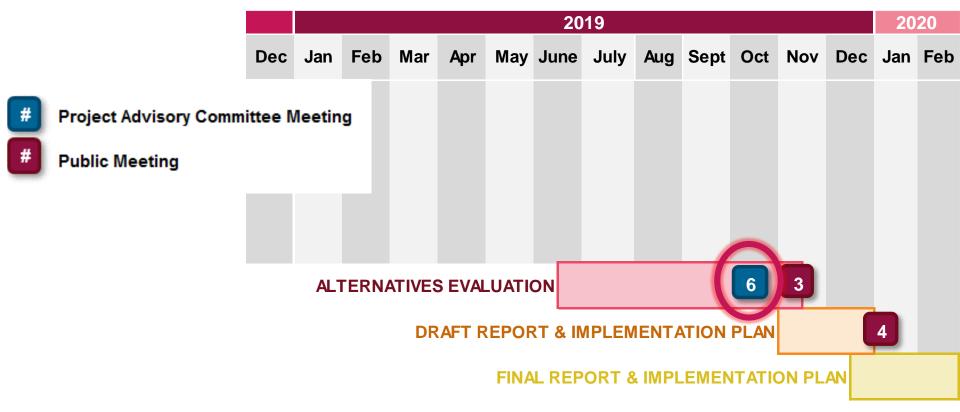
- 4. Draft Report and Implementation Plan
 - Public Meeting #4 (with City Council)

Jan 2020

5. Final Report and Implementation Plan



Schedule





Goals for Tonight – PAC Actions

The PAC would agree on the options to be presented to the public at an upcoming meeting

The Public Meeting would be held to:

- Summarize project to date (needs, input, variations)
- Communicate the prioritization metrics and results
- Discuss implementation of options and opportunities for future enhancements
- Obtain feedback

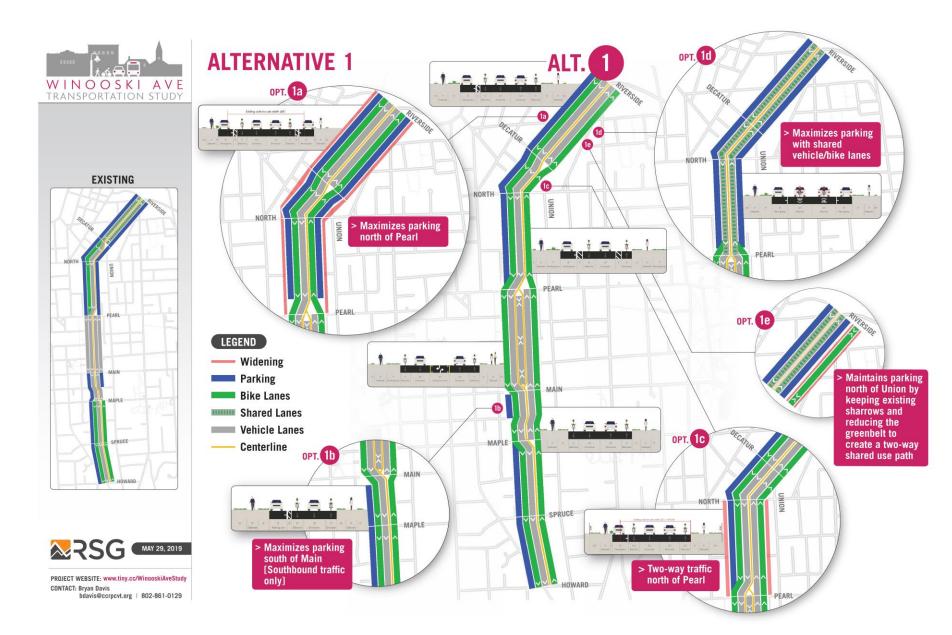




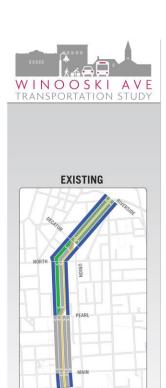
Public Comment



Where have we been? Schematics – 13 Variations!



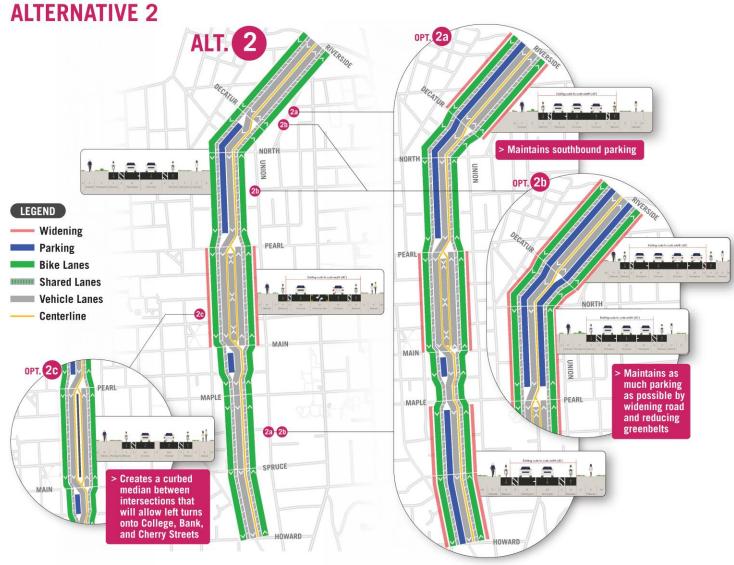




MAY 29, 2019

PROJECT WEBSITE: www.tiny.cc/WinooskiAveStudy **CONTACT: Bryan Davis**

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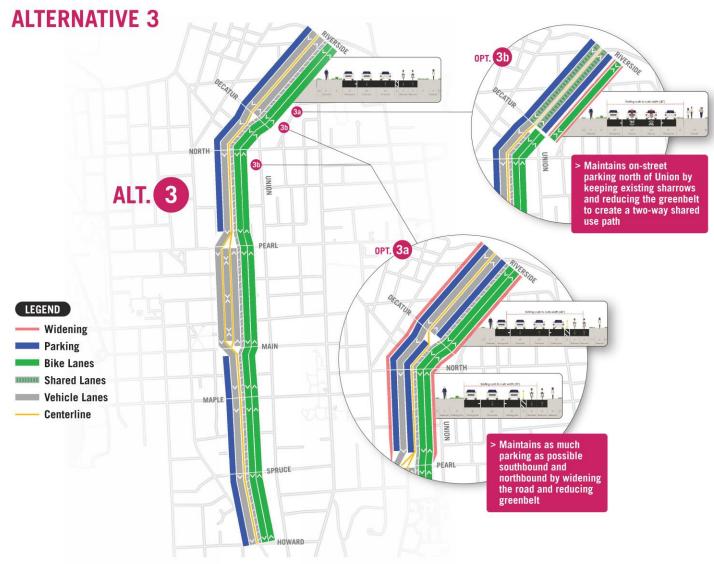






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What We've Heard

Continuous, dedicated bike lanes are critical, and protected is preferred.

There is a high demand for parking on North Winooski.

Main to Pearl is aggressive / stressful / dangerous / unattractive.

Street trees and green strips are crucial for an inviting corridor.



13 Variations & Intersection Concepts



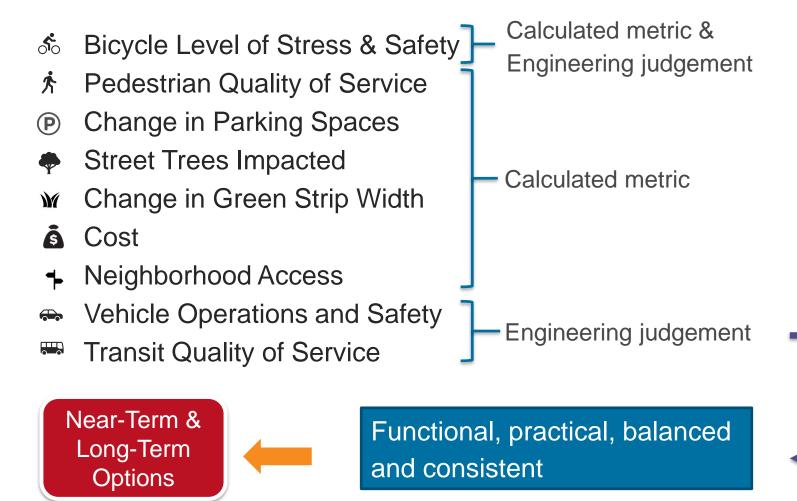


Evaluation Criteria



Corridor & Intersection Options: Near-term and Long-term

Final Corridor Evaluation Criteria



Final Corridor Evaluation Criteria

	Bike LTS with Driveway Density Factor	Ped quality of service	Parking change	Street trees impacted	Change in green strip width (LF)	Cost	Neighborhood Access	Vehicle Operations & Safety	Transit	Evaluation Ranking	
Avg Value per Segment	1.91	1.17	-8.34	2.82	-0.51	\$ 157,203	0.93	0.99	-0.06		
1										1	1
1A										8	1A
1B										2	1B
1C										5	1C
1D										4	1D
1E										3	1E
2										7	2
2A										11	2A
2B										13	2B
2C										6	2C
3										9	3
3A										10	3A
3B										12	3B

Color scale indicates how far Good or Poor the Variation performs relative to the Average Value per Segment.



Intersection Evaluation Criteria

- Right of Way Impact
- Vehicle operations (delay & capacity)
- Vehicle safety
- Non-vehicular operations (delay & capacity)
- Non-vehicular safety
- Reduces intersection complexity (number of lanes, conflict points)
- Reduces ped/bike exposure
 (shortens crossing distance, fewer conflicts through intersection)
- Bike infrastructure (maintained through intersection / drops at intersection)
- Vehicle speed reduction
- Parking impact
- Transit and Freight access
- Utility impact (overhead, underground)
- Right of Way Impact



Intersection Evaluation Criteria

	Main	Street	College/	Bank/Cherry	Pearl Street		
Criteria	Signal	Roundabout	Signal	Mini- Roundabout	Signal	Single Lane Roundabout	
Overall							
Right of Way Impact							
Vehicle operations (delay & capacity)							
Vehicle safety							
Non-vehicular operations (delay & capacity) Non-vehicular safety							
Reduces intersection complexity (number of lanes, conflict points)							
Reduces ped/bike exposure (shortens crossing distance, fewer conflicts through intersection)							
Bike infrastructure (maintained through intersection / drops at intersection)							
Vehicle speed reduction							
Parking impact							
Transit and Freight access							
Utility impact (overhead, underground)							

Color scale indicates magnitude of positive or beneficial attributes or negative attributes.



Intersection Evaluation Criteria

	North Street		Union/Decatur		Archibald		Riverside	
Criteria	Signal	Mini- Roundabout	All-Way Stop	Mini- Roundabout	Signal	Mini- Roundabout	Signal	Single Lane Roundabout
Overall								
Right of Way Impact								
Vehicle operations (delay & capacity)								
Vehicle safety								
Non-vehicular operations (delay & capacity)								
Non-vehicular safety								
Reduces intersection complexity (number of lanes, conflict points)								
Reduces ped/bike exposure (shortens crossing distance, fewer conflicts through intersection)								
Bike infrastructure (maintained through intersection / drops at intersection)								
Vehicle speed reduction								
Parking impact								
Transit and Freight access								
Utility impact (overhead, underground)								

Color scale indicates magnitude of positive or beneficial attributes or negative attributes.





Discussion Time! Review the Corridor & Intersection Options

Applying the Corridor Vision for Near-Term Options

- Improves safety and convenience for all users
 - Re-allocates road space between Main Street and Pearl Street
 - Shortens intersection crossings and calms traffic at intersections
- Creates connected, contiguous north-south bike facilities
- Retains existing parking along west side of the corridor
- Improves business and resident access for all modes by making it two-way north of North Street



Intersection Concepts

Intersection	Short-term Option	Other Possibilities
Main St	Tightened signal - Eliminate right-turn lanes (southbound, westbound)	1-lane traditional roundaboutRequires ROWAdjacent redevelopment unknown
College St	Improve Signalized Intersection	Mini-roundabout considered but unlikely to function well
Bank St	Improve Signalized Intersection	Mini-roundabout considered but unlikely to function well
Cherry St	Improve Signalized Intersection	Mini-roundabout considered but unlikely to function well
Pearl St	Tighten signal	
North St	Mini-roundabout	Tightened Signal - Bump outs and improve bike lanes
Union/Decatur St	Mini-roundabout	Maintain all-way stop
Archibald St	Tightened signal - Short cycle length	All-way stop
Riverside St	Signal improvements	

Riverside Avenue to North Street





A parking management plan

will be conducted to identify strategies on managing the Winooski Ave parking (such as time limits, loading zones, etc.).

Highlights

Retains west side parking (76 spaces)

- removes east side parking (64 spaces)

Stormwater opportunities

Pedestrian improvements at intersections

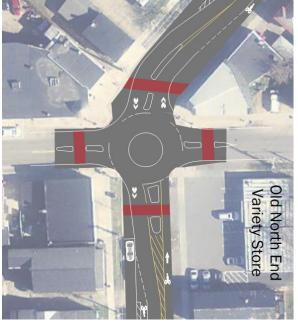
Connectivity:

- Two-way vehicle lanes
- Northbound and southbound bike lanes



North Street to Pearl Street





A parking management plan will be conducted to identify strategies on managing the Winooski parking (such as time limits, loading zones, etc.).

Highlights

Retains west side parking (46 spaces)

removes east side parking (45 spaces)

Retains southbound vehicle lane

Creates northbound and southbound bike lanes

Stormwater opportunities

Pedestrian improvements at intersections



Pearl Street to Main Street



Highlights

Improves utilization and safety of existing road capacity, enhances quality of service for pedestrians, and reduces stress for bicyclists.

Connectivity:

- Two-way vehicle lanes
- Two-Way-Left-Turn-Lane
- Northbound and southbound bike lanes



PILOT TEST IMPROVEMENTS AT THE INTERSECTION OF SOUTH WINOOSKI AVENUE AND BANK STREET

Use paint or epoxy-gravel mix and planters to extend the north and south side sidewalk at the intersection of Bank Street and South Winooski; Ban right turn on red and provide a lead pedestrian interval.

Source: WalkBikePlan

Main Street to King Street



Highlights

Retains west side parking (13 spaces)

eliminates east side parking (12 spaces)

Maintains two-way vehicle traffic

Creates new northbound and southbound bike lanes

King Street south to Howard Street



Highlights

Retains west side parking (87 spaces)

One-lane southbound vehicle lane

Northbound and southbound bike lanes

Opportunities for Long-term Options

- Responsive to changes in land use, parking demand and management strategies and other significant projects, such as Great Streets projects.
- Maintains the option to widen the road to increase vehicle parking supply, provide space for protected bike lanes, and/or improve the pedestrian amenities.

North Street to Pearl Street – Opportunity in the Future



Highlights

Widens roadway

Continuity

- Two-way vehicle lanes from Main to Riverside.
- Northbound and southbound bike lanes

West side parking – same as near-term concept (45 spaces removed on east side)

Main Street to King Street – Opportunity in the Future



Opportunity to revise parking regulations to improve turnover or benefit to local land uses.

Highlights

Protected bicycle facilities

Reduces vehicle lanes to southbound only.

Likely to improve operational efficiency of Main Street signal.

Retains west side parking (13 spaces) - eliminates east side parking (12 spaces)





Next Steps

Next Steps

Public Meeting – Gauge public interest and areas of Yea! and areas of No Way! to inform the implementation plan

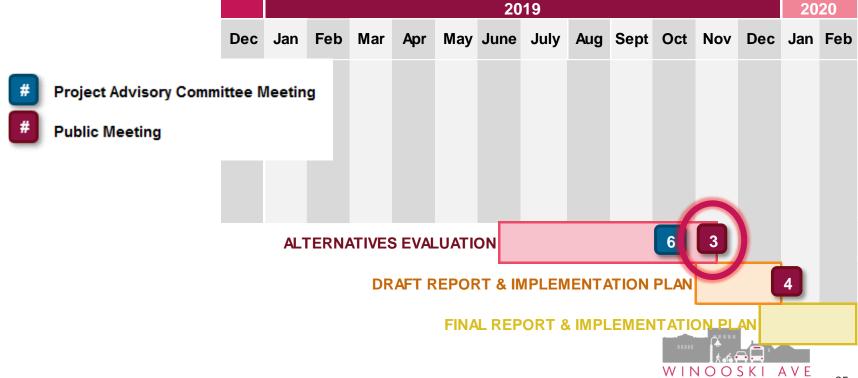
Your role tonight - agree on the options to be presented to the public at an upcoming meeting

What can you tell us tonight?

- Feedback: the good, the bad, the ugly
- What do we need to do to make this a reality?
- What would the community like to see as part of the near-term and long-term options?



Next Steps





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Thank You!