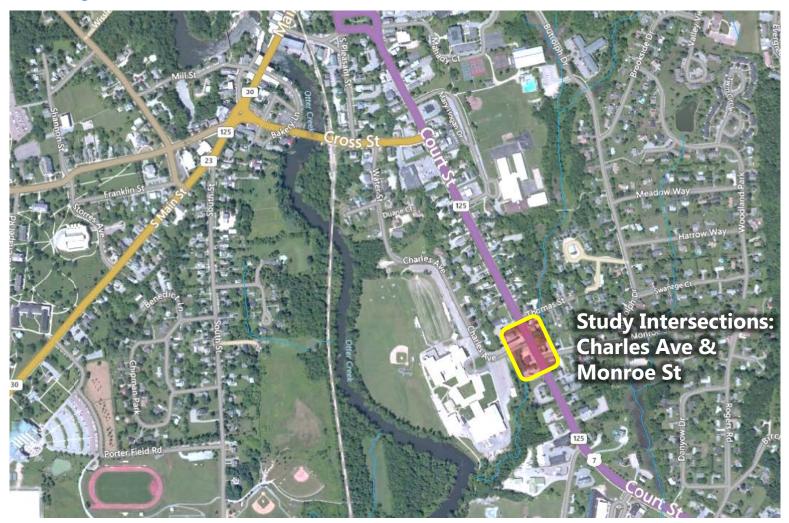


# Middlebury Court Street/Charles Ave/Monroe Street Intersection Scoping Study



**Town of Middlebury, Vermont** 

## **Project Area**







#### **Project Goals**

- Improve mobility & safety for all modes
- Enhance connectivity between surrounding land uses (e.g. school, neighborhoods, etc)
- Balance the needs of all stakeholders
- Ensure that transportation infrastructure is complementary to community character.





#### How to Get There

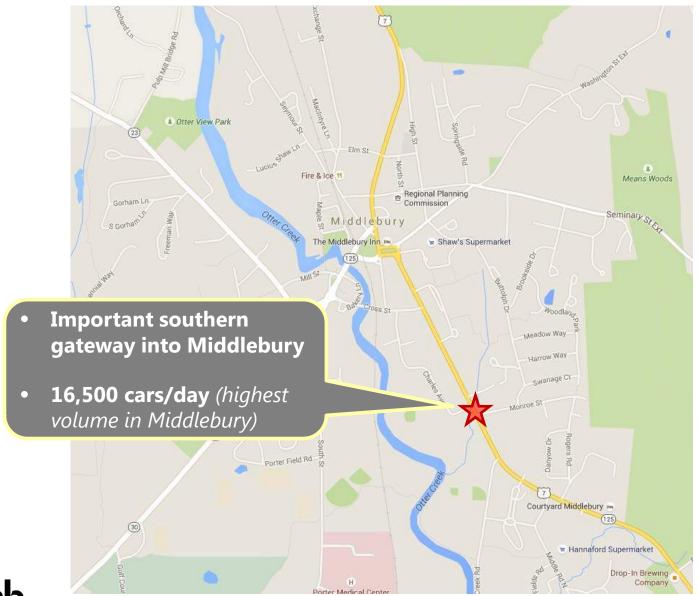
SCOPING PHASE
 Listen > Investigate > Evaluate > Select

 Develop a range of alternatives from which a *Preferred Alternative* will be selected to progress towards final design and construction





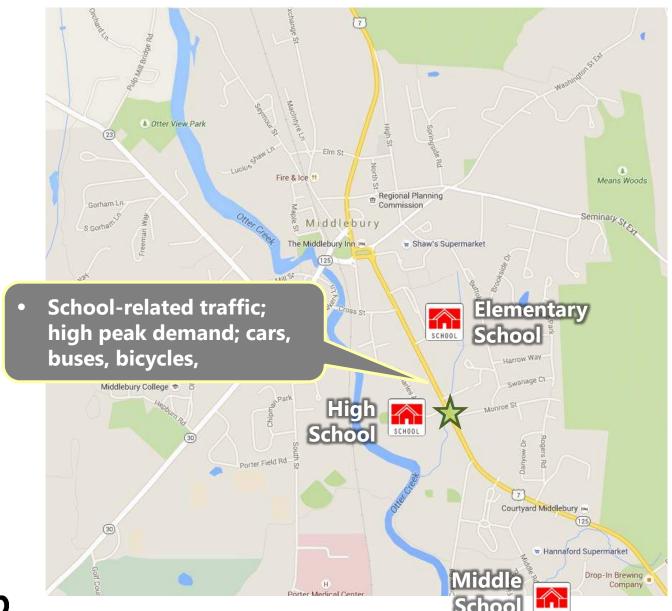
## **Existing Characteristics**







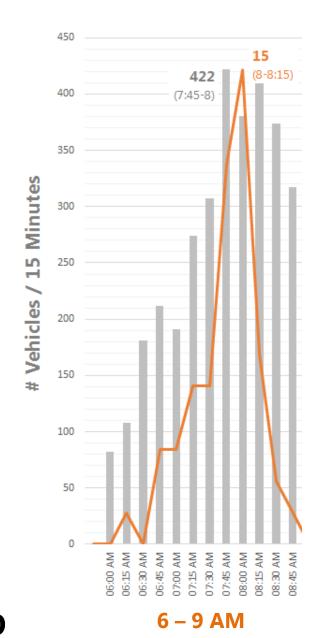
## **Existing Characteristics**

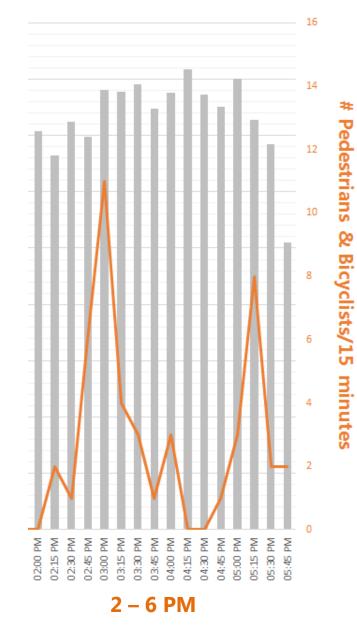






#### **Highly Peaked Traffic Volumes**

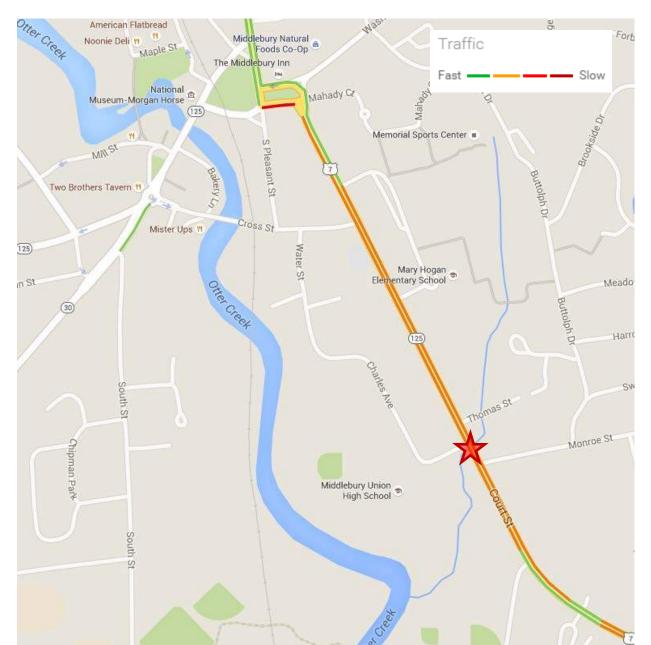








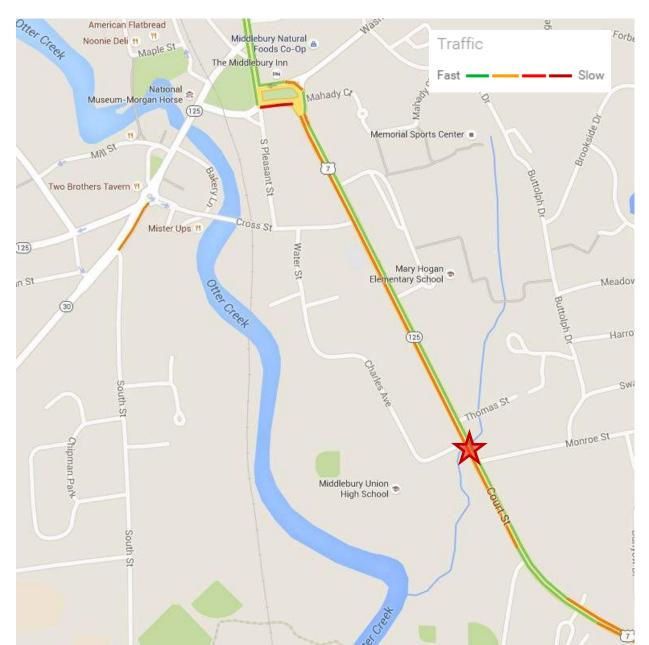
## Average Traffic Speeds – 7:30 AM







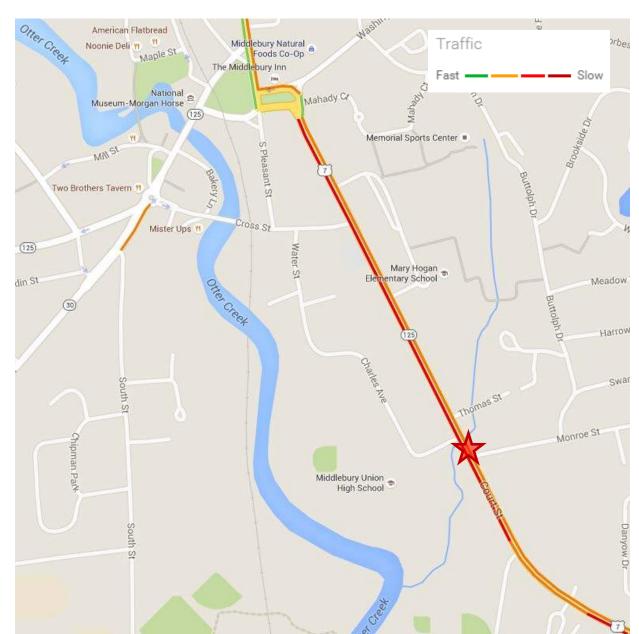
## Average Traffic Speeds – 12:00 PM







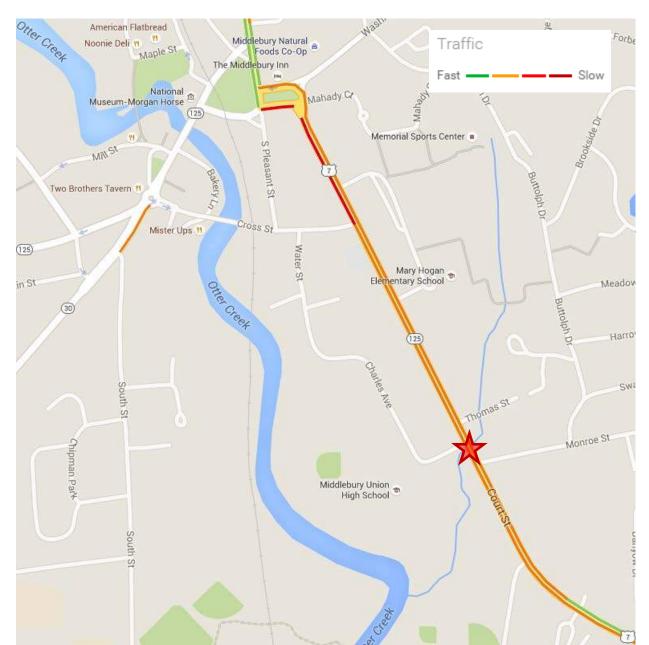
## Average Traffic Speeds – 3:00 PM







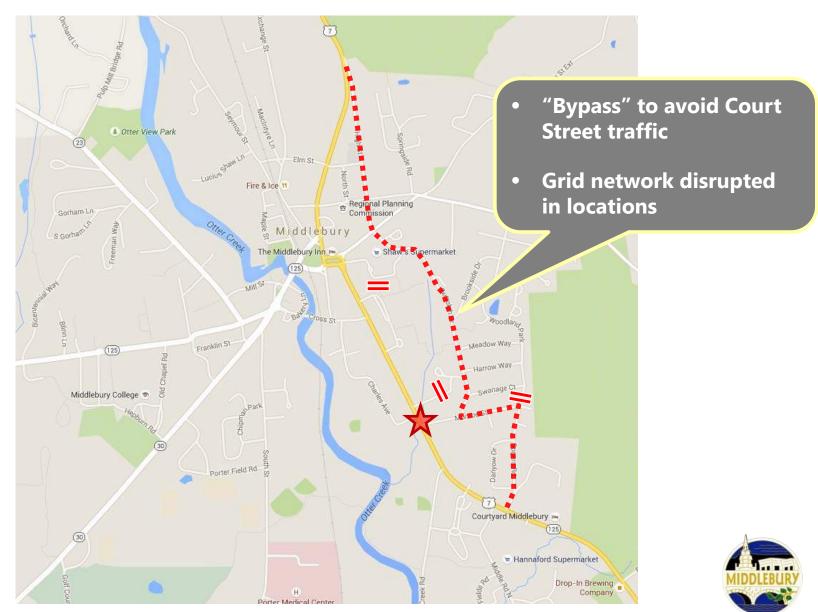
## Average Traffic Speeds – 5:00 PM







#### **Bypass & Closed Connections**





#### **Intersection Area**



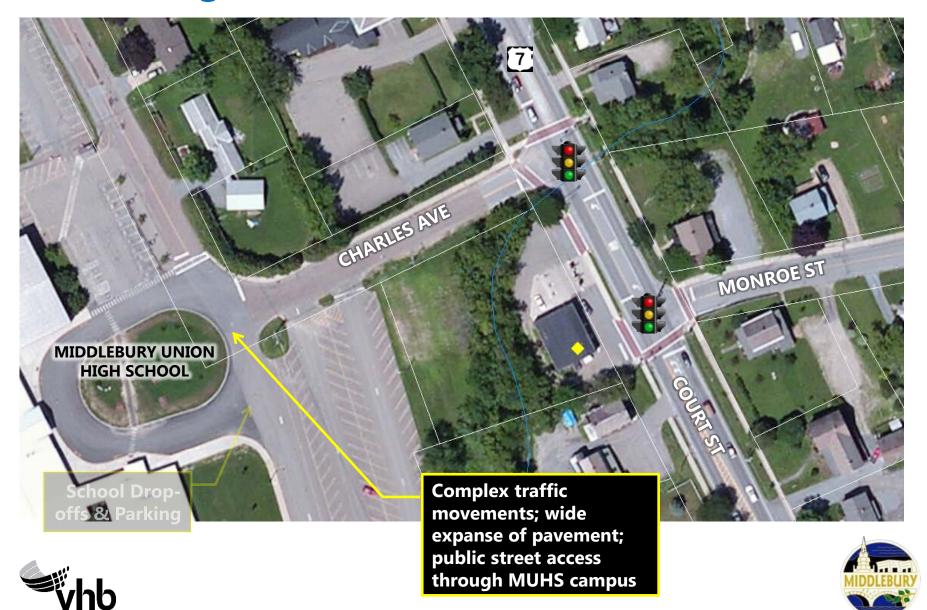




























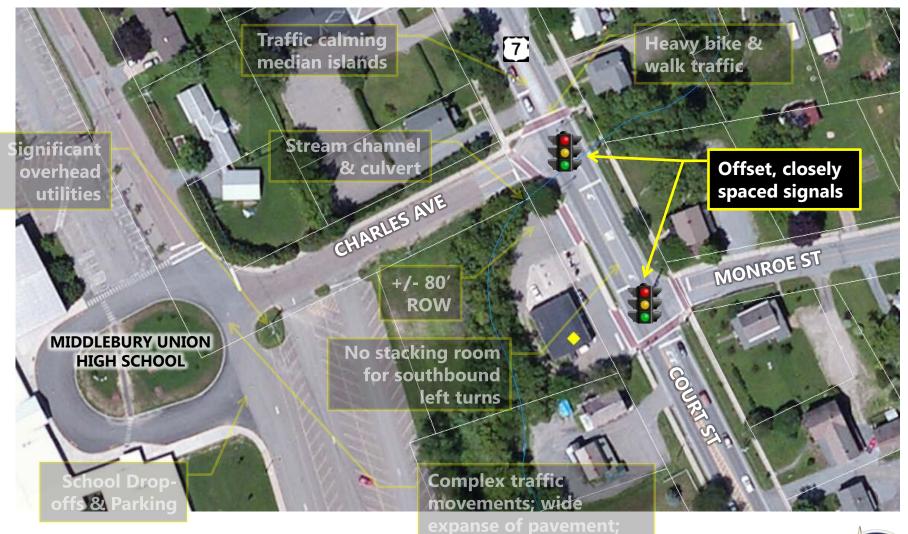
expanse of pavement; public street access through MUHS campus

















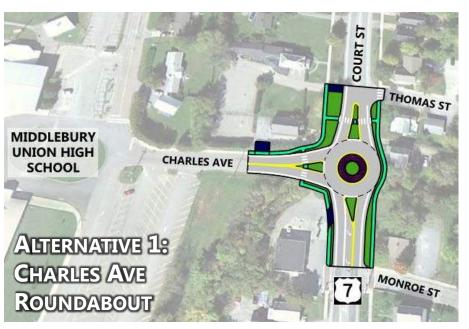
## **Alternatives**







#### **Alternatives**



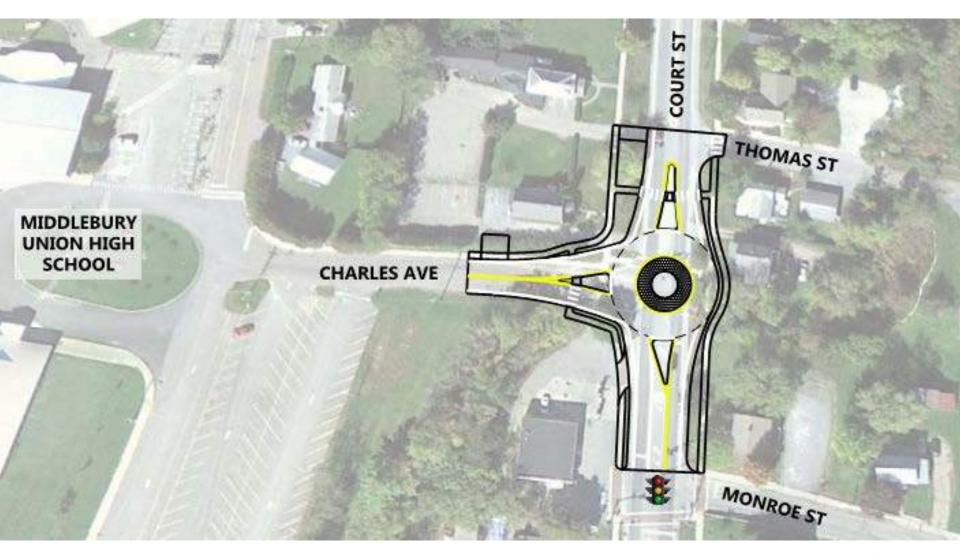








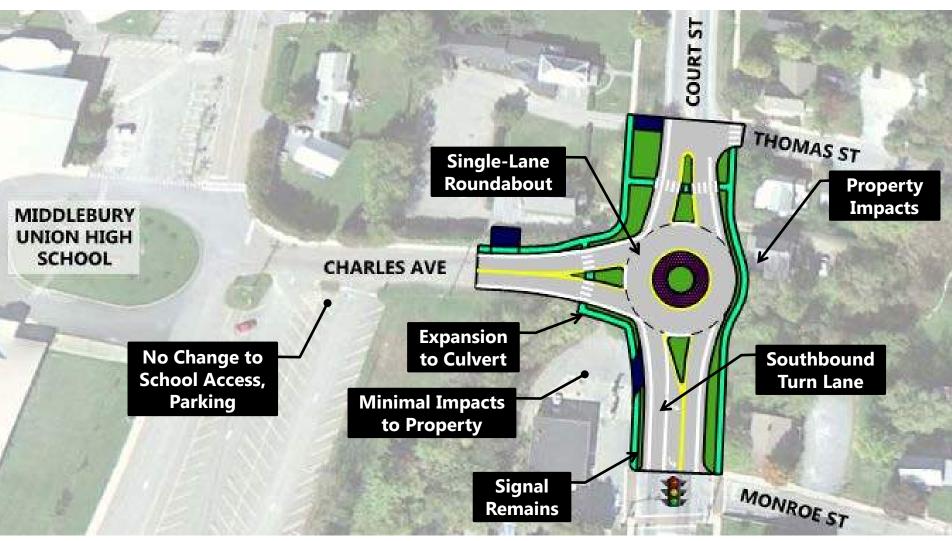
#### **Alternative 1: Charles Avenue Roundabout**







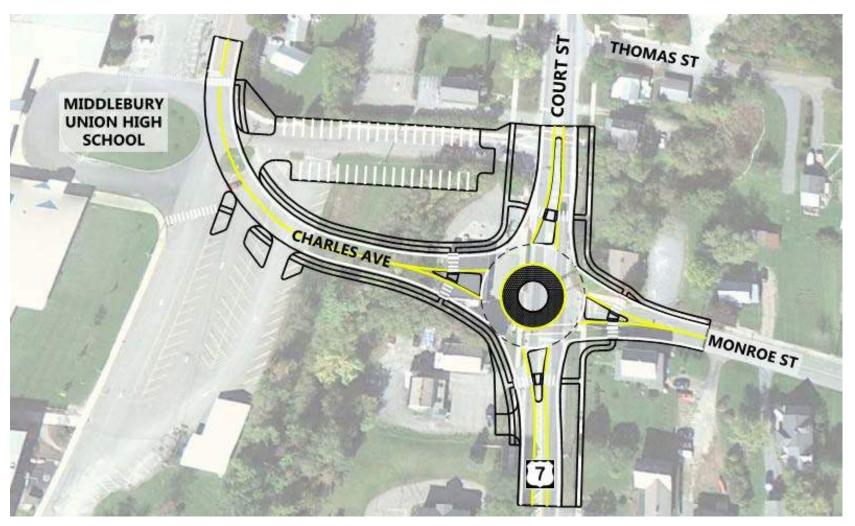
#### **Alternative 1: Charles Avenue Roundabout**







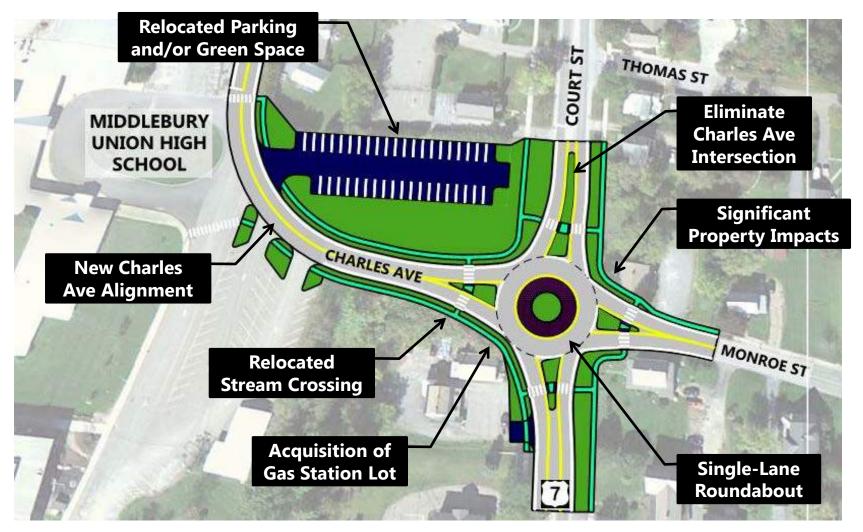
#### **Alternative 2: Monroe Street Roundabout**







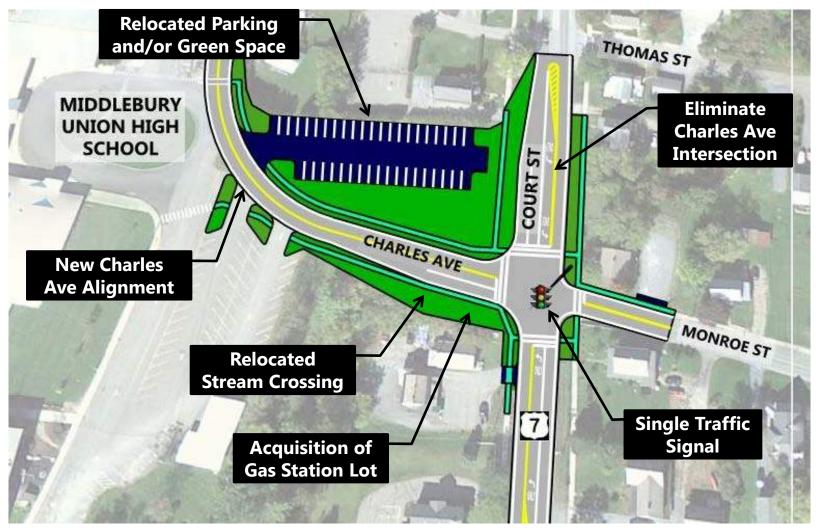
#### **Alternative 2: Monroe Street Roundabout**







#### **Alternative 3: Monroe Street Signal**







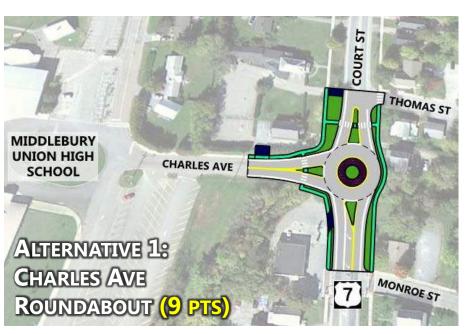
## **Alternative Comparisons**

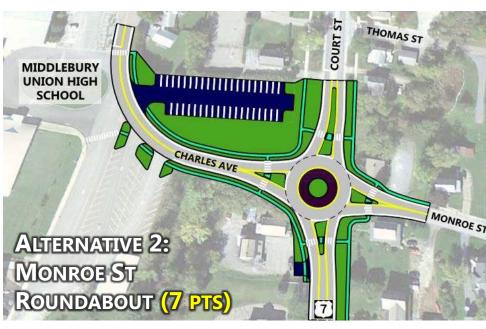
	No Build	<b>Alt 1</b> Charles Roundabout	<b>Alt 2</b> Monroe Roundabout	<b>Alt 3</b> Monroe Signal
COST: Design & Construction	\$0	\$350,000	\$980,000	\$870,000
COST: Right-of-Way	\$0	<b>Lowest</b> (partial impacts to 1 property)	<b>Highest</b> (acquisition plus partial impacts to 1 property)	<b>Middle</b> (acquisition)
CONGESTION: Avg. Level of Service	LOS F	LOS D/E	LOS D	LOS A
BIKE/PED: Accessibility & Safety	No Change	Slight Increase (Two intersections)	Increase (Single intersection)	Increase (Single intersection)
SAFETY: Anticipated Effects	No Change	Slight Decrease (combine roundabout & signal)	Improvement (single intersection; roundabout)	Improvement (single intersection; signal)
IMPACTS: Historic Properties	None	<b>Significant</b> (Historic District)	<b>Significant</b> (Historic District)	Moderate
IMPACTS: Hazardous Materials	None	None	<b>Yes</b> (Fuel Tanks)	<b>Yes</b> (Fuel Tanks)



MIDDLEBURY

#### **Alternatives - Discussion**













## What Happens Next?

- 1. Selectboard to identify Preferred Alternative (Nov Dec)
- 2. Final Report (December)
- 3. Seek funding for final design, permitting & construction







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COURT STREET AND CHARLES AVE REALIGNMENT MIDDLEBURY, VT







COURT STREET AND CHARLES AVE REALIGNMENT MIDDLEBURY, VT









COURT STREET AND CHARLES AVE REALIGNMENT MIDDLEBURY, VT



## **Alternative Comparisons**

	No Build	<b>Alt 1</b> Charles Roundabout	<b>Alt 2</b> Monroe Roundabout	<b>Alt 3</b> Monroe Signal
COST: Design & Construction	3	2	0	1
<b>COST</b> : Right-of-Way	3	2	0	1
CONGESTION: Avg. Level of Service	0	1	1	3
BIKE/PED: Accessibility & Safety	0	1	3	3
<b>SAFETY:</b> Anticipated Effects	1	0	3	3
IMPACTS: Historic Properties	3	0	0	2
IMPACTS: Hazardous Materials	3	3	0	o
	1 7	0	7	12

*13* 9 *7 13* 



