

Options Workshop April 14, 2017 South Burlington, Vermont







Stantec



south<u>burlington</u>

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What are we doing tonight?



Project Development

Project Definition

Preliminary Engineering

Funding/ Final Engineering

Construction



How are we doing this?

- Task 1: Data gathering, existing conditions analysis;
 Completed
- Task 2: Stakeholder Meeting and Public Workshop #1; November 2016
- Task 3: Purpose & Need Statement; Dec 2016
- Task 4: Alternatives development; Dec 2016 Apr 2017
- Task 5: Options Workshop
- Task 6: Prepare draft recommendations; May 2017
- Task 7: Present final recommendations to City Council for consideration; June 2017





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We want YOUR feedback!

Brought to you by

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Send us your input to help improve the experience for all users! Be Heard! Scan or visit the survey link: Survey link: http://bit.ly/2eiPwt6

Why do you walk or bike across this bridge?

302 out of 336 people answered this question

Leisure	147 / 49%
Personal business	142 / 47%
Get to work	138 / 46%
4 Other	12 / 4%

How comfortable are you with walking or biking across this bridge?

328 out of 336 people answered this question

				Average: 2.01
1	2	3	4	5
Very uncomfortable	1	Neutral		Very comfortable
► Hide detail				
2				141 / 43%
1				111 / 34%
3				50 / 15%
4				15 / 5%
5				11 / 3%

Does crossing this bridge deter you from traveling to destinations on the other end of the bridge?

328 out of 336 people answered this question

1	Sometimes	237 / 72%
2	Never	91 / 28%

US Route 2 User Survey

() Stantec

- Posted at various locations along walking/biking route
- 336 responses!
- Received many comments on user experiences
- Will be included with Final Report



Community Workshop #1

- Safety
- Accommodate greatest number of users
- Connectivity
- Don't forget about pedestrians
- Think short-term and long-term
- A number of ideas for crossing



Rank these five (5) factors in the order of importance for walking/biking across I-89:

Comfort	
Safety	
Aesthetics	
How direct (distance)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
How fast (time)	

7	RICKS GROUP	
	PED/BIKE BR. TO QUARRY HILL AND/OR TUNNEL (SAFETY)	
	· DESIRE SHORT DIST.	
	· DESIRE SHORT DIST. · BUDGET MAY DICTATE CURRENT LOG? · SLOW TRAFFIC IN INTERCHANGE · SLOW TRAFFIC IN INTERCHANGE	
	· MORE DIRECT & VISIBLE ····	
	AND INTERSECTION PAGE BRIDGE	
1	CONCEPTUAL BIKE/PED/TRANSIT BR.	
	S OF KT Z - TIL TO	-
	· REDUCE RT. 2 I RAFFIC HURE BURG RD.	
	- NEW INTERCHANGE C HINESBURG RD. - NEW INTERCHANGE C HINESBURG RD. - " ON RAMP C DEFET KENNEDT	
1	" ON KAMP C	
	- IMPROVE RT. 15 EXIT G CREATE I U. TURN ON I-189	
	DON'T FORGET PEDS. & H.C.	-
•	DON'T FORGET PEDS. & H. UNTERCHANG ELIM. BIKE/PED. ON EXIST. INTERCHANG	4E
	ELIM. BIKE/PED. UN LATT	







Purpose & Need Statement Purpose

The purpose of this project is to create a safe, visible, comfortable, convenient, direct and attractive year-round crossing for pedestrian and bicycle travel across I-89 in the vicinity of the Exit 14 interchange while:

- maintaining safe and efficient vehicular conditions on the I-89 mainline;
- supporting healthy and sustainable lifestyles;
- promoting compact growth and economic development in City Center;
- creating attractive public spaces in support of the region's identity;
- enhancing capacity of the US 2 corridor in a cost-effective manner;
- and reconnecting neighborhoods within South Burlington that have been split apart by regional and national transportation corridors.



Purpose & Need Statement Needs

- 1. Build an inviting travel corridor that reinforces the City's and Region's goals for pedestrian and bicycle mobility.
- 2. Build attractive public spaces and a distinctive identity for City Center and Chittenden County.
- 3. Facilitate use by all age groups, experience levels, and purposes of trips. Remove a barrier in the regional network.
- 4. Increase the regional transportation capacity.
- 5. Create a safe, comfortable, user-friendly, desirable year-round bicycle and pedestrian connection across Exit 14.
- 6. Maintain Interstate 89 safety and efficiency.

Purpose & Need Statement approved by the South Burlington Planning Commission Tuesday, January 10, 2017



Interstate 89 Exit 14 Alternative Transportation Crossing: Initial Alternative Evaluation

	S1	\$2	\$3	S4	L1	L2	L3	L4	L5	L6	L7	L8	L9
Alternative Need	Existing bike lane improvements	Center bike lane from jughandle to Dorset Street	Interchange ramp realignment without signal control	Interchange ramp realignment with signal control	Bridge over cloverleaf south of US 2	Circular bridge structure	Bridge from Quarry Hill to north edge of <u>UMall</u> property	Bridge from Quarry Hill to middle of UMall property	Tunnel or bridge on north side of US 2	Two bridges/ crossings (north & south)	Tram or gondola	Cannoli bridge	Cantilever bridge
1. Build an inviting travel corridor that reinforces the City's and Region's goals for pedestrian and bicycle mobility.	Supports bicycle options; does not support <u>ped</u> options by itself	Supports bicycle options; does not support ped options by itself	Provides incremental support for this need	Provides incremental support for this need	Yes	Yes	Yes	Yes	Yes	Yes	Requires analysis to evaluate efficiency	Yes	Would help bridge segment, but not comfort of ramp crossings.
2. Build attractive public spaces and a distinctive identity for City Center and Chittenden County.	Could support this	Could support this; likely first facility of this type in VT	Might not do much to support this	Might not do much to support this	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Maybe
3. Facilitate use by all age groups, experience levels, and purposes of trips.	Might only help certain experience levels	Might only help certain experience levels	Maybe	Maybe	Yes	Yes	Yes	Yes	Yes	Yes	Partially: Might not help for all trip purposes	Yes	Might only help certain experience levels
4. Remove a barrier in the regional network.	Not for peds & certain cyclists	Not for <u>peds</u> & certain cyclists	Partially; remaining traffic exposure	Partially; remaining traffic exposure	Yes	Yes	Yes	Yes	Yes	Yes	Might not help for all trip purposes	Yes	Not for certain <u>peds</u> & cyclists
5. Increase the regional transportation capacity.	Not for peds & certain cyclists	Not for <u>peds</u> & certain cyclists	Might not do much to support this	Might not do much to support this	Yes	Yes	Yes	Yes	Yes	Yes	Maybe	Yes	Not for certain <u>peds</u> & cyclists
 Create a safe, comfortable, user- friendly, desirable year-round bicycle and pedestrian connection across Exit 14. 	Provides increment al support for this need	Provides incremental support for this need	Provides incremental support for this need	Provides incremental support for this need	Yes	Yes	Yes	Yes	Yes	Yes	Maybe	Yes	Yes
7. Maintain Interstate 89 safety and efficiency.	Yes	Yes	Requires analysis	Requires analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Green - Best meets purpose and need. Carried forward for further input and consideration

Yellow – Does not fully meet purpose and need. Potentially recommended to be scoped separately or included with future project in this area.

Pink – Does not meet the project purpose & need or is similar to other alternatives. Not being considered for further evaluation.



Options considered but not carried forward

VT STATE PLANE GRUD



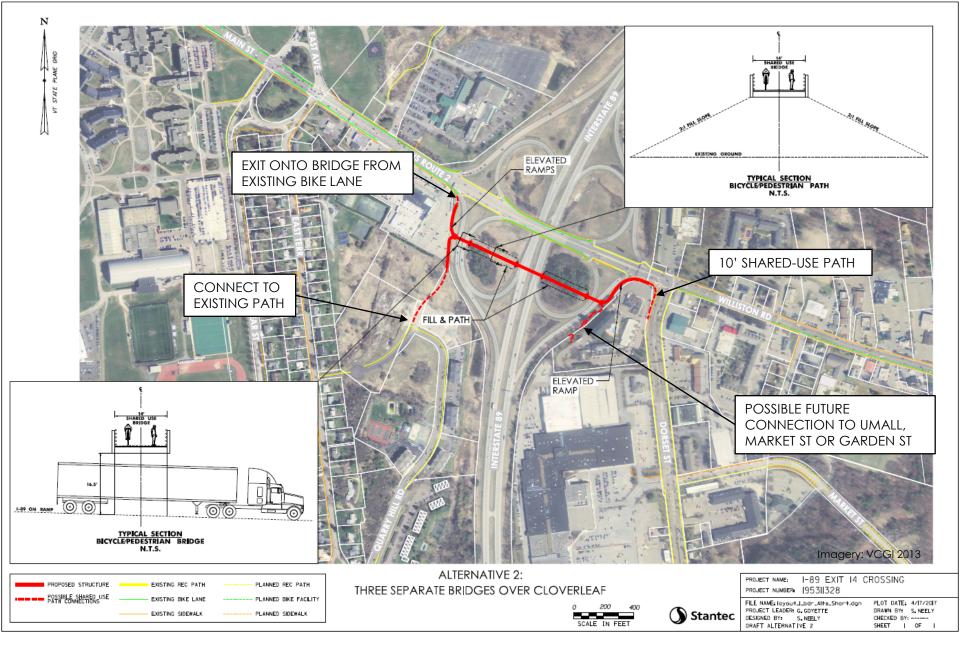




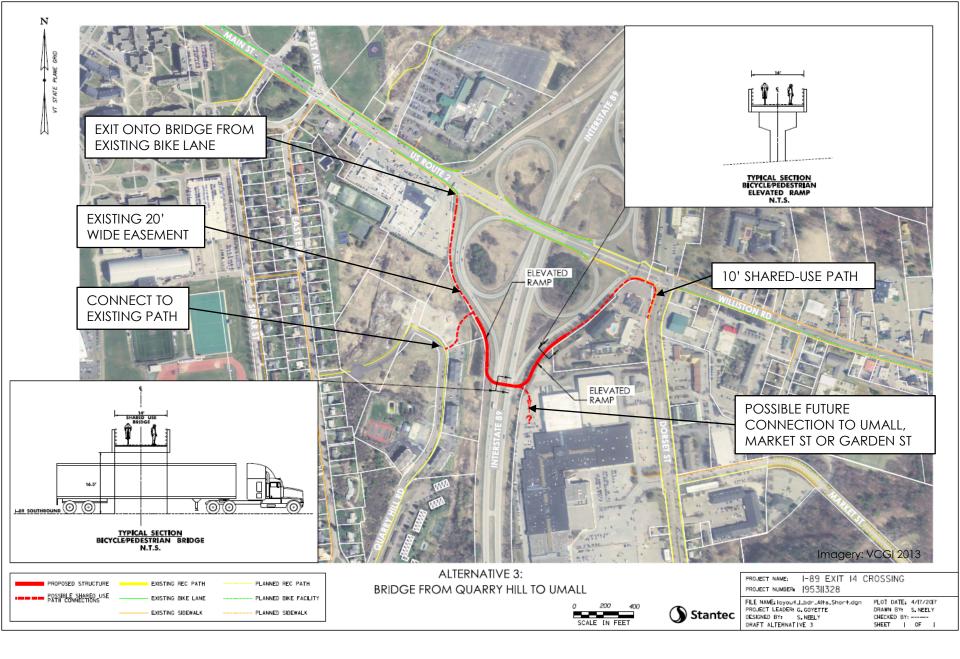
Center Bike Lane



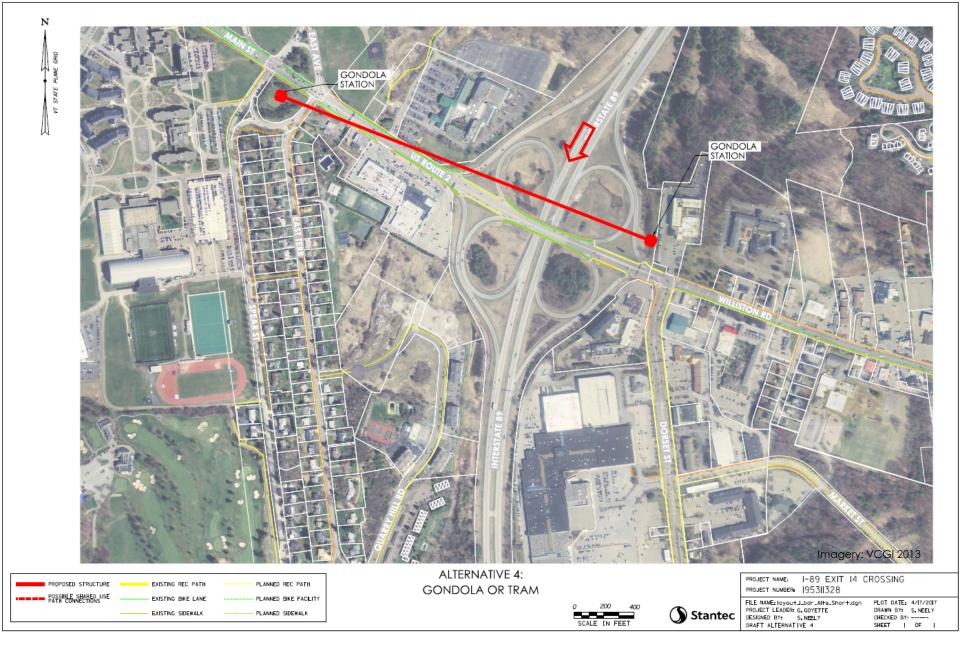
Source: FHWA Separated Bike Lane Planning and Design Guide (2015) <www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/separated_bikelane_pdg>



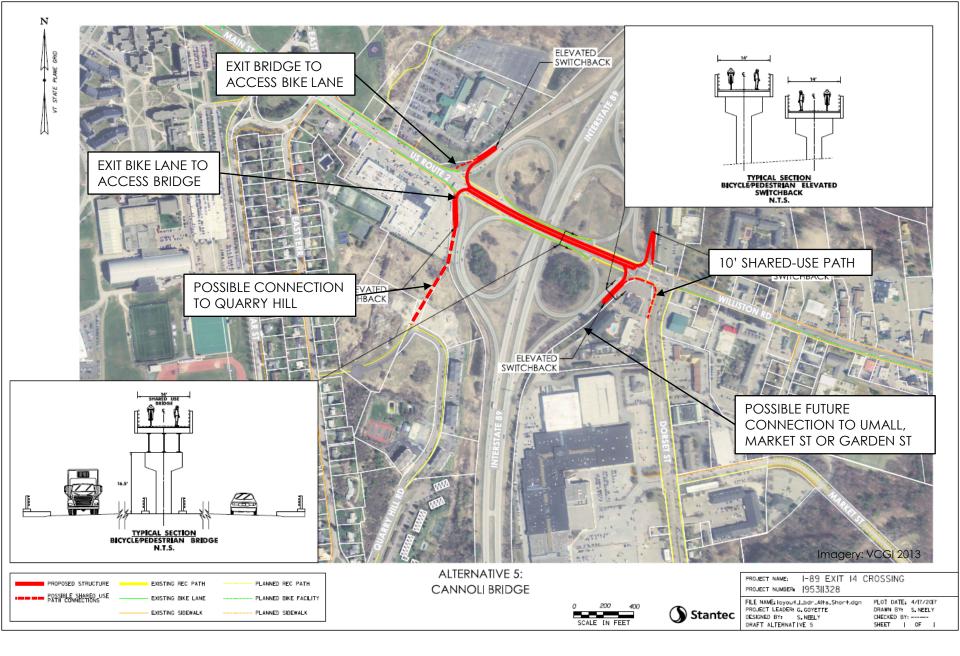














Estimated Lengths and Travel Times

Estimated Travel Times – SW Ramp Crossing to SE Ramp Crossing on US Route 2

		Alternative							
		1	2	3	4	5			
		Do Cloverleaf Nothing Bridges		Bridge: Quarry Hill to Umall	Gondola or Tram	Cannoli Bridge			
Distai	nce (FT)	1345	1750	2725 -		2305			
Difference (FT)		-	- 405 138		-	960			
Travel Times (Min)									
	Delays at X-Walks								
	None	1.0			-				
Bike	10s	1.7	1.3	2.1		1.7			
	30s	3.0							
	None	6.4		12.9	-				
Ped	10s	7.0	8.3			10.9			
	30s	8.4							



We need your input!

- Please visit each option
- Listen to what others have to say please refrain from talking over people
- Fill out comment card for each option
- Place card in the correct bag!



Thoughts

- Would you walk or bike this route? Why or why not?
- Where would you like to see connections made?
- Are there other options that you would like to see considered?
- Other suggestions?



Next steps



- Review feedback
- Meet with VTrans
- Prepare draft recommendations
- Develop concept plan
- Finalize recommendations
- Present to City Council
- Begin preliminary design and engineering



Thank you!



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Project Website: http://www.ccrpcvt.org/i-89-exit-14

