53 Regional Drive Concord, NH 03313



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Established 1946

MEETING NOTES

PROJECT: NASHUA, NH – EAST HOLLIS STREET **DATE OF MEETING**: August 15, 2018

AND BRIDGE STREET INTERSECTION

IMPROVEMENTS (NHDOT PROJECT NO. 16314)

(MJ Project No: 18315.00)

LOCATION: Norman Crisp Elementary School, Nashua, NH **TIME:** 6:00 PM – 8:00 PM

SUBJECT: Nashua Gateway Options Workshop

ATTENDED BY:

CITY of NASHUA: S. Marchant Director Community Development

J. Chizmas Transportation Planner

T. Cummings Director of Economic Development

MJ: B. Colburn

B. Patinskas J. Santacruce

CRJA: J. Law

Residents: See attached sign in sheet

PURPOSE:

The purpose of this meeting was to present and receive feedback from the public on the three alternatives for the East Hollis Street and Bridge Street intersection project.

PROJECT DISCUSSION:

B. Colburn began the meeting by giving an overview of the project. This project will only include East Hollis Street and Bridge Street from C Street to the west abutment of the bridges over the Merrimack River. Since the last public meeting, the steering committee has met multiple times to further develop the alternatives. The steering committee will meet again in a couple of weeks to make a recommendation for a preferred alternative based on feedback from the public. The goals of this project are to address all modes of transportation (pedestrians, bicycles, and vehicles), not make traffic worse, only focus on traffic at this intersection, and build on previous planning studies. This project will not improve the regional traffic.

This LPA project is currently in the engineering study phase. Preliminary design and final design will be next, followed by construction. The funding for this project will be 80% by NHDOT and 20% locally through turnpike toll credits.

One of the first goals of the steering committee was to develop a purpose and need statement. The purpose of this project is to improve mobility of all users, improve access, facilitate land use, not adversely impact traffic, and to provide aesthetically pleasing neighborhood amenities. The needs are daily traffic congestion, lack of bicycle and pedestrian accommodations, merging vehicles creates safety concerns, limited access to Crown Street and the new development, and it is not a welcoming gateway into Nashua. This statement was used to create the three alternatives being presented at this meeting.

The three alternatives chosen include traffic signals. Roundabouts were looked at, but it was determined that they would not function well for this intersection. The traffic volumes were too high on certain movements that caused vehicles to have difficulty entering the roundabout. This led to significantly longer queue lengths than what are out there today.

The traffic model created for the three alternatives used a design year of 2039. This assumed a traffic growth of 1% per year over what it is today. Existing traffic numbers come from traffic counts done at the site this year and numbers from the Nashua Regional Planning Commission. The traffic model does take the backup from Hudson into account.

An evaluation matrix has been created and filled in for the existing intersection and for the three alternatives (see attached document). This matrix is color coded to show the pros and cons of each alternative. The criteria being rated include mobility, vehicle access, land use, traffic operations, aesthetics, potential neighborhood amenities, and cost.

ALTERNATIVE 1 (see attached for Alternatives 1-3)

This alternative is the same design as the existing layout. Traffic will remain the same as it is today as geometric changes will be minimal. The merge from Hudson on to East Hollis Street will be moved closer to the signal. Sidewalks and bike lanes will be added on to what is existing in the area. Rapid Rectangular Flashing Beacons will be provided to make pedestrian crossings safer. These are similar to what is located at the East Hollis Street and C Street intersection. Under this alternative, the signal at D Street will need to be made permanent. This may be a benefit to some people and a negative impact for others. It will make turning onto Bridge Street easier for residents on D Street, but it will also cause more cut through traffic. This design is set up so that a future connection to Crown Street can be made with a right in/right out intersection on East Hollis Street.

The main attributes of the landscaping design include potential space for a dog park, garden, and community park. The garden and park could be located on the western side of the intersection while the dog park and access to the river could be located on the eastern side of the intersection. The parks, however, will not be funded by this project. The City of Nashua will have to pay for those extras. The project will pay for street trees, walkways, and lighting. The full build out for this landscape will cost the city \$620,000.

ALTERNATIVE 2

This alternative consists of a series of three signals controlling traffic around a one-way block. There is a possibility to introduce a fourth signal in the future to accommodate access to Crown Street. The main benefit of this option is that it provides full access to all of the properties in the area. Sidewalks and bike lanes are also shown throughout this alternative. Two different Rapid Rectangular Flashing Beacons will be needed for pedestrians to cross the street. The main drawback of this alternative has to do with traffic. This intersection layout will make delays worse for some movements due to the additional signals, but also make some movements better. The queue lengths will generally remain the same as they are for alternative 1.

Another drawback of this intersection design is the cost. Due to the number of signals, the cost of this alternative is high. This leaves very little money for landscaping. The city will have to pay to include pedestrian access to the river and street trees. Street trees are important as they have been shown to hold

drainage, increase property values, and slow traffic. The full build out of this alternative could include a dog park, community garden, children's playground and toddler playground.

ALTERNATIVE 3

This alternative will utilize two signals and provide access to all properties. No new signals would be needed to provide access for a future road to Crown Street. Wait times for some traffic will increase due to the additional signal and signal phases, but also decrease for some traffic. The queue lengths will generally remain similar to alternative 1. Sidewalks and bike lanes have been added to all areas of the intersection to provide better access. One of the main drawbacks of this alternative is that pedestrians will have to cross five lanes of traffic at a time in some locations.

This alternative creates two large areas of greenspace. This project could cover the costs for street trees and a walkway to the river. The full build out of this alternative could include a dog park, community garden, children's playground and toddler playground. These could all be located on the same side of the intersection or spread out across the two. This could be a benefit as it could minimize the amount of traffic crossings for children to get to the playground. The city would be responsible for \$750,000 to complete the full build.

PUBLIC FEEDBACK:

- Alternative 1
 - Positives
 - Traffic will remain the same as it is for the existing intersection.
 - The impacts from construction will be less than in the other two alternatives since the footprint will be the same for the road.
 - Negatives
 - D Street will continue to see cut-through traffic.
 - There is a lack of lighting shown.
- Alternative 2
 - Positives
 - None mentioned.
 - Negatives
 - The will be three signals needed for this alternative.
 - There will be more delay for vehicles coming from Hudson to Bridge Street and from East Hollis Street to Hudson.
 - There is a lack of lighting shown.
- Alternative 3
 - Positives
 - The amount of greenspace has been maximized.
 - The layout is somewhat similar to the existing intersection. This may minimize confusion when driving it.
 - Negatives
 - There will be more delay for vehicles coming from Hudson to Bridge Street and from East Hollis Street to Hudson.
 - There is a lack of lighting shown.
- Polling Results
 - o People were split on the likelihood of walking or biking through the project area.
 - o The best location for greenspace is next to the river.
 - O A path to the river is important for the majority.
 - O Votes were split between the use of contemporary lights and benches.
 - o Trees are the most preferred gateway style.
 - o A playground and community garden are the most important neighborhood amenities.

- The opinions were split on whether the traffic signal at D Street should remain.
- o The majority attending the meeting are from Nashua.

ACTION ITEMS:

• MJ to investigate the existing parking on East Hollis Street and check what can be included in the alternatives.

Submitted by:

Brian E. Patinskas, PE McFarland Johnson, Inc.

cc: Attendees

Nashua Gateway Options Workshop August 15, 2018

SIGN IN SHEET

E-Mail	TREMBERGE COMMENT. NET		CLIP 339 MSW. Com		8	Angiil@yakoo.com		Nashus Jarim 1520		11 PS 55 QCONC45, WET	mbrestive@gmallan	CALLO XHJOAKES GOW	movest profest langua soavon	lallycitale manail con	Colpins Open Con nh Op	
Address	13 WOLD CREST DR.	Pd Ocx 1153 Mereund of	144. E Hallis St	158 Chas. Bonesoft Huy	witchfully, NIHO3052	156 E. Hollis Street Aptone	135. Hallis ST	3812 Bricle, 5t	1x4 & Hully 18-20 "0" 5-	(5 6 stack)	51 9,1115 St	43 Class Sel		152 East Hollisst. Apt.1	TOWN OF HUBSON	8 Hobbs Aue
Name	JOEL MCKERMAN	Dansey O'NgKAS	Thomas WLevesyus	Gaudette Durcher	The Land Mar	Shaela Ricker	Gran, D. Some your	Gen Harringel	Do Cam SHAFFEN	PERN SCHATEN	Mary Beth Aestivo	CALL + KNEW SCANDED	Shaung Riby	(Varoline Lally	ELV15 11-1/10/11	Guest Clerk

Nashua Gateway Options Workshop August 15, 2018

SIGN IN SHEET

	401.(8)	100 m	- 5							
E-Mail	Li Se Bemblay Deranigo	MORNCARPORPORMAL CON	Nashua							
Address	S7 Bridge 3t	8 Hobbs Ave	Eversource 370 Aminst, Nashua	57 B RIG 9 B ST.	Wards Alderwowen					
Name	Lisc Tarmolay	Robert SCARter JR	1	LEAN TRENDIE	Mary Am Mel132, Ohie					

Nashua Gateway Options Workshop August 15, 2018

SIGN IN SHEET

E-Mail	Red @ trost. ca	1.20								
Address	142 COSCIL RED #17-323 TH	310 Brook Village Rd Nes								
Name	TED TROST	Paul Hotsteiner								

EAST HOLLIS STREET & BRIDGE STREET INTERSECTION IMPROVEMENT PROJECT EVALUATION MATRIX – 8/15/18

	CRITERIA	NO BUILD (DO NOTHIN	NO BUILD OO NOTHING)	ALTERNATIVE 1	TIVE 1	ALTERNATIVE 2	TIVE 2	ALTERNATIVE 3	TIVE 3
	Bicycle Accommodations	Nor	ıe	5 FT Bicycle Lanes	de Lanes	5 FT Bicycle Lanes	e Lanes	5 FT Bicycle Lanes	e Lanes
MOBILITY	Pedestrian Accommodations	Limited	ted	5 FT Sidewalks	ewalks	5 FT Sidewalks	walks	5 FT Sidewalks	walks
	Connection to the River	None	ıe	Yes	S	Yes		Yes	
	Riverfront Landing	Right In/Right-Out at Bancroff St. Maintain Signal at D St.	t at Bancroft St. nal at D St.	Right In/Right-Out at Bancroft St. Maintain Signal at D St.	t at Bancroft St. nal at D St.	Full Access at Bancroft St. Signal at D St. Removed	Sancroft St. Removed	Full Access at Bancroft St. Signal at D St. Removed	Sancroft St. Removed
VEHICLE ACCESS	Crown Street Area	Signals at Alds St.	Alds St. & Arlington St.	Right In/Right Out w/ New Future Road Signals at Alds St. & Arlington St.	/ New Future Road & Arlington St.	Full Access with New Future Roadway	New Future ay	Full Access with New Future Roadway	New Future ay
	Emergency Vehicle Access	Uses Side Streets	Streets	Use Side Streets	Streets	Ability to Use New Intersections	v Intersections	Ability to Use New Intersections	v Intersections
	Bridge Street to East Hollis Street	Neighborho	ghborhood Streets	Neighborhood Streets	od Streets	Through Main Intersection	intersection	Through Main Intersection	ntersection
LAND USE		Limited Future Potential	re Potential	Limited Future Potential	re Potential	Increased Future Potential	e Potential	Increased Future Potential	e Potential
	2039 Traffic Volumes	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour
	East Hollis St. to Hudson	A	В	A	В	B/B	D/E	D	F
TRAFFIC	Bridge St. to Hudson	D	F	D	H	D/A/B	D/E/E	C/C	D/F
OPERATIONS	Hudson to Bridge St.	A	A	A	A	B/A	A/A	В	В
SERVICE	Hudson to East Hollis St.	С	D	C	D	B/A	A/C	D/A	D/A
(A – F)	Crown St. Access	•	-	F	F	D	F	D	F
,	Riverfront Landing Driveway	D	F	D	F	A	В	D	D
	Reduces Neighborhood Street Traffic	No Change	ange	No Change	ange	Reduces Traffic on D St.	c on D St.	Reduces Traffic on D St.	c on D St.
	Gateway Views	Poor)I	Excellent	lent	Excellent	ent	Excellent	ent
SCARCERES	Greenspace	Underutilized	tilized	0.8 Acres Adjacent to E St. 0.8 Acres Surrounded by Roadways 1.0 Acres Adjacent to River	teent to E St. led by Roadways cent to River	0.3 Acres Adjacent to E St. 0.7 Acres Surrounded by Roadways 1.2 Acres Adjacent to River	ent to E St. d by Roadways ent to River	1.0 Acres Adjacent to E St. 1.3 Acres Adjacent to River	ent to E St. ent to River
AESTHETICS	Street Tree Plantings	None	ıe	152 Deciduous, 50 Flowering	50 Flowering	132 Deciduous, 30 Flowering	0 Flowering	140 Deciduous, 33 Flowering	3 Flowering
	Site Amenities	None	a	10 Benches, 3 Trash Receptacles, Flag Pole, Gateway Element	Receptacles, Flag ay Element	13 Benches, 3 Trash Receptacles, Flag Pole, Gateway Element	Receptacles, Flag	9 Benches, 3 Trash Receptacles, Flag Pole, Gateway Element	teceptacles, Flag Element
	Street and Pedestrian Lighting	Traditional	ional	47 Pedestrian Lights	an Lights	46 Pedestrian Lights	n Lights	54 Pedestrian Lights	n Lights
POTENTIAL NEIGHBORHOOD	Community Garden	•		Located on E St. for Best Connection to the Surrounding Neighborhood	Best Connection to Neighborhood	Located on E St. for Best Connection to the Surrounding Neighborhood	Best Connection Neighborhood	Located on E St. for Best Connection to the Surrounding Neighborhood	Best Connection Neighborhood
AMENITIES	Dog Park			Located Adjacent to the River	nt to the River	Located Adjacent to the River	t to the River	Located Adjacent to the River	to the River
(In New Green Space) (Not Included in Project Cost)	Children's Playground	•		Located on E St. for Best Connection to the Surrounding Neighborhood. No Separate Toddler Lot.	Best Connection to eighborhood. No iddler Lot.	Separate Toddler Lot Located on E St. for Best Connection to the Surrounding Neighborhood. Main Playground Located in Central Island	Located on E St. ction to the borhood. Main in Central Island	Located on E St. for Best Connection to the Surrounding Neighborhood. Separate Toddler Lot.	Best Connection Neighborhood. dler Lot.
COST				~ \$2.3 N	\$2.3 Million	~\$2.7 Million	Illion	~ \$2.7 Million	llion

Key

Lowest Negative Value Rating

Slight Negative Value Rating

Neutral Value Rating

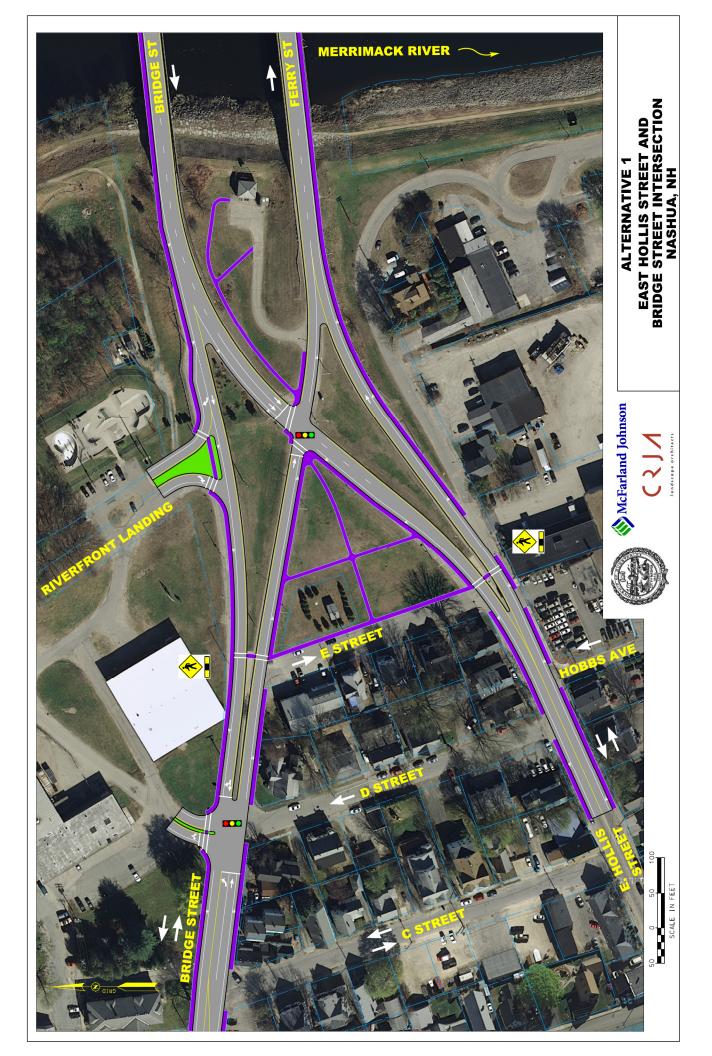
Slight Positive Value Rating

Highest Positive Value Rating



lands:ape architects













LANDSCAPE CONCEPTUAL PLAN OPTION 1 - FULL BUILD DESIGN





3 BUFFER PLANTING 4 FLAG POLE

(5) CHILDREN'S PLAYGROUND WITH FENCING
(6) COMMUNITY GARDEN

OPEN GREEN SPACE (b) (c)

(2)

(9) EXISTING BUILDINGS TO REMAIN

LANDSCAPED BERM WITH PLANTING TO HELP SCREEN TRAFFIC

SCUIPTED LAWN LAND FORM (13) ACCESS DRIVE FOR GATHERING / PLAY PEDESTRIAN CONNECTION TO THE MERRIMACK RIVER (=) (12)

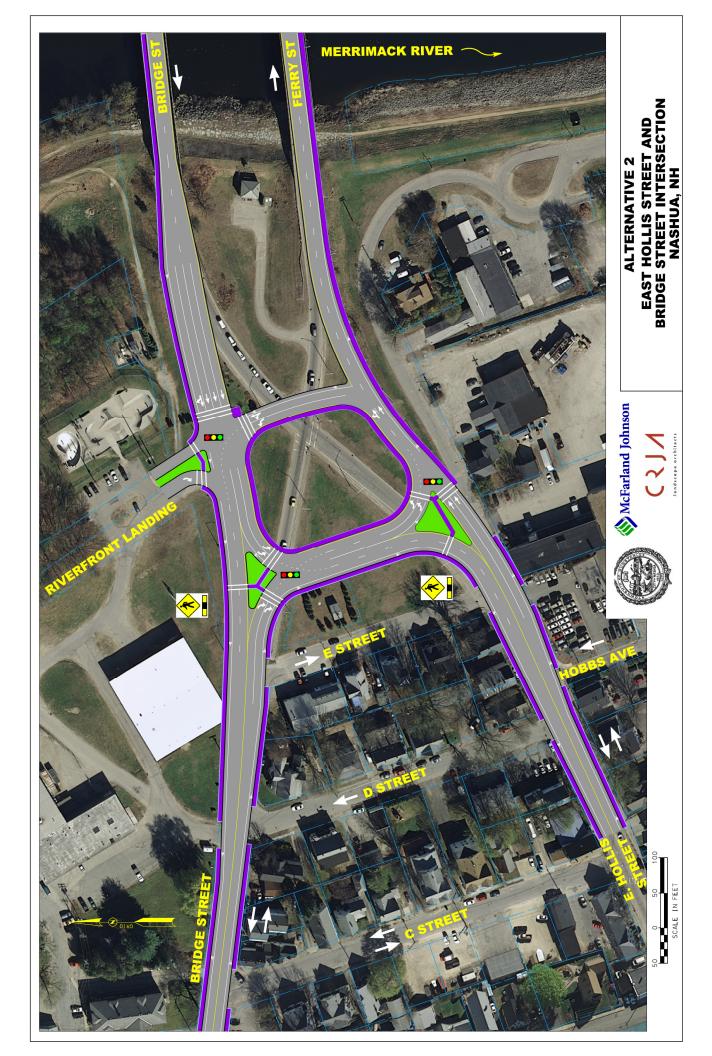
(14) PEDESTRIAN CROSSWAIKS

(15) DOG PARK/OPEN GREEN SPACE















Nashire's Gate CITY



LANDSCAPE CONCEPTUAL PLAN OPTION 2 - FULL BUILD DESIGN











PEDESTRAN CONNECTION TO THE MERRIMACK RIVER

(12)

LANDSCAPED BERM WITH PLANTING TO HELP SCREEN TRAFFIC

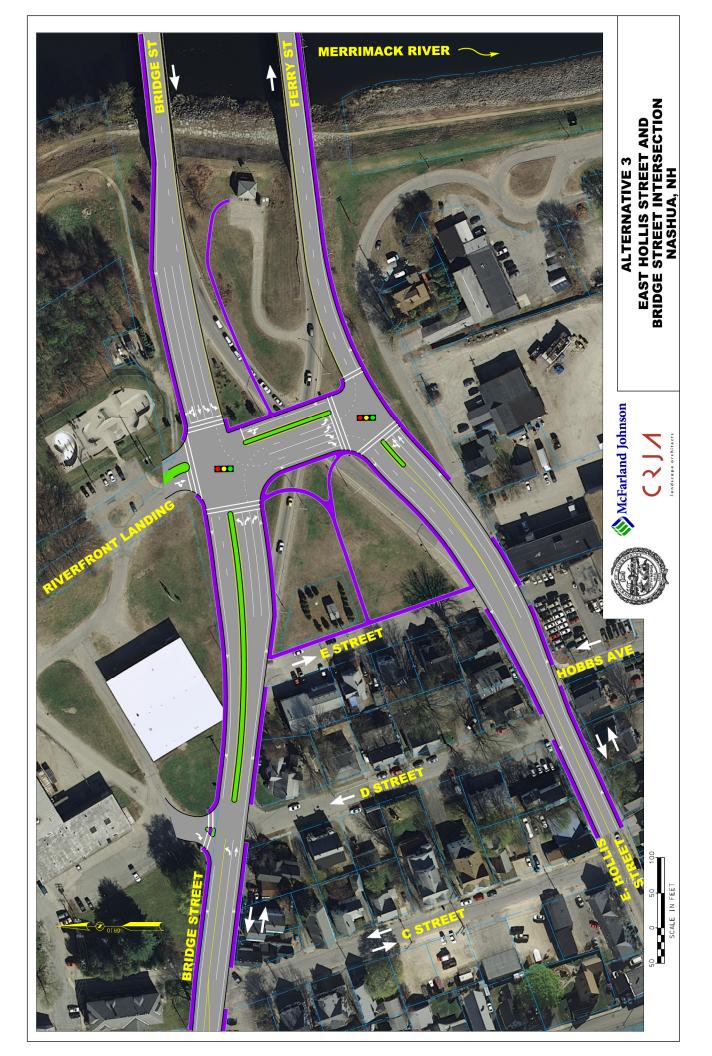
(2)

NEW PEDESTRIAN SIDEWALKS

©

4 FLAG POLE

(2) GATEWAY STRUCTURE







McFarland Johnson





LANDSCAPE CONCEPTUAL PLAN OPTION 3 - FULL BUILD DESIGN







PEDESTRIAN CROSSWAIKS

(<u>-</u>

PEDESTRIAN CONNECTION TO THE MERRIMACK RIVER

(12)

LANDSCAPED BERM WITH PLANTING TO HELP SCREEN TRAFFIC

(2)

NEW PEDESTRIAN SIDEWALKS

(e)

(2) GATEWAY STRUCTURE



