HIGHWOOD DRIVE INTERSECTION AND CORRIDOR STUDY NEIGHBORHOOD OPEN HOUSE FEBRUARY 10, 2014



WELCOME

INTRODUCTION

- The City of Bloomington is conducting the Highwood Drive Intersection and Corridor Study to determine the future design section and intersection control needs for the corridor
- Study limits are from East Bush Lake Road to the west terminus near US Highway 169
- A Study Advisory Committee has been formed to guide the study, review materials and provide feedback

BACKGROUND

- Construction of the US 169/I-494 interchange was substantially completed in December of 2012
- The US 169 and Highwood Drive intersection was eliminated and a cul-de-sac was constructed
- Marth Road has been modified from a oneway road to a two-way road

BACKGROUND

It is anticipated that these modifications will continue to alter travel routes/patterns in the area



STUDY GOALS

- Develop an intersection control plan at the Highwood Drive intersections at East Bush Lake Road and West Bush Lake Road
- Identify near or medium term improvements at the Highwood Drive and East Bush Lake Road intersection
- Develop a roadway cross-section/lane configuration that will optimize use of the existing roadway for all modes of transportation, as well as aesthetics

STUDY GOALS

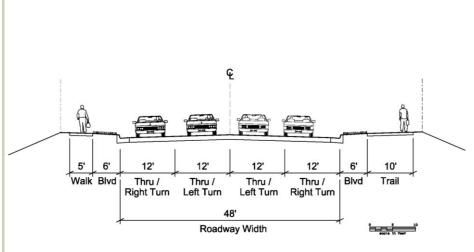
- Address pedestrian crossing safety concerns along the corridor
- Evaluate and address speeding concerns along the corridor, if necessary
- Identify and address other concerns along the corridor
 - East Bush Lake Road and 86th Street Intersection
 - Delay on Highwood Drive at East Bush Lake Road
 - Sight Distance at Telegraph Road

CONCEPT DEVELOPMENT

- Corridor and intersection options have been developed with the following considerations:
 - Multi-modal use
 - Aesthetics
 - Vehicle and pedestrian safety
 - Traffic operations
 - Input received from the Public Open House held in October 2013

- Corridor Options
 - Option A Four-Lane Undivided Roadway with Multi-Use Trail on South Side
 - Option B Two-Lane Parkway with Left-Turn Lanes at Key Intersections and Multi-Use Trail on South Side
 - Option C Two-Lane Roadway with Left-Turn Lanes at Key Intersections, On-Street Bike Lanes and Multi-Use Trail on South Side

Option A – Four-Lane Undivided Roadway with Multi-Use Trail on South Side





Option A – Four-Lane Undivided Roadway with Multi-Use Trail on South Side

Pros

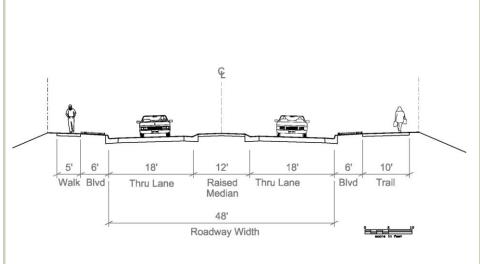
- Maintains existing roadway
- Accommodates future traffic volumes
- Enhances travel for bicyclists and pedestrians with multi-use trail

Cons

- Roadway capacity is not in line with the traffic it serves
- Lack of facility for commuter bicyclist
- Does not enhance roadway aesthetics



Option B – Two-Lane Parkway with Left-Turn Lanes at Key Intersections and Multi-Use Trail on South Side





Option B – Two-Lane Parkway with Left-Turn Lanes at Key Intersections and Multi-Use Trail on South Side

Pros

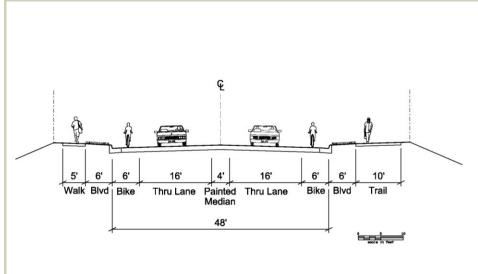
- Provides traffic calming benefits
- Provides a parkway setting
- Accommodates future traffic volumes
- Enhances travel for bicyclists and pedestrians with multi-use trail

Cons

- Emergency vehicle concerns
- Lack of facility for commuter bicyclist



Option C – Two-Lane Roadway with Left-Turn Lanes, On-Street Bike Lanes and Multi-Use Trail on South Side





Option C – Two-Lane Roadway with Left-Turn Lanes, On-Street Bike Lanes and Multi-Use Trail on South Side

Pros

- Provides traffic calming benefits
- Accommodates future traffic volumes
- Enhances travel for bicyclists and pedestrians with multi-use trail
- Enhances travel for commuter bicyclists
- Slight sight distance improvement at Telegraph Road

Cons

Does not enhance roadway aesthetics



- Multi-Modal Components
 - Multi-Use Trail
 - Pedestrian Crossings
 - On-Street Bike Lanes

- Intersection Options at East Bush Lake Road
 - Option 1 New Traffic Signal with Existing Roadway
 - Option 2 New Traffic Signal with Four Lanes
 - Option 3 Multi-Lane Roundabout

Option 1 - New Traffic Signal with Existing Roadway

Pros

- Overall acceptable traffic operations
- Fits within existing right-of-way

Cons

- Excessive delay for vehicles on the Highwood Drive approach
- Long northbound queues in the a.m. peak period
- Long southbound queues in the p.m. peak period



Option 2 - New Traffic Signal with Four Lanes

Pros

- Overall acceptable traffic operations
- Addresses vehicle delays on Highwood Drive approach
- Addresses long northbound queues in the a.m. peak period
- Addresses long southbound queues in the p.m. peak period
- Fits within existing right-of-way
- Includes southbound right-turn lane at 86th Street

Cons

Trail impact in northwest quadrant



Option 3 - Multi-Lane Roundabout

Pros

- Overall acceptable traffic operations
- Addresses vehicle delays on Highwood Drive
- Addresses northbound queues in the a.m. peak period
- Addresses southbound queues in the p.m. peak period
- Includes southbound right-turn lane at 86th Street

Cons

- Trail impact in northwest quadrant
- Right-of-way impacts in southwest quadrant



- Intersection Options at West Bush Lake Road
 - Option 1 All-Way Stop Control
 - Option 2 Single-Lane Roundabout

Option 1 - All-Way Stop Control

- Can work with any corridor option
- Fits within existing right-ofway
- Overall traffic operations are acceptable



Option 2 - Single-Lane Roundabout

- Can work with any corridor option
- Minimal right-of-way impacts west of West Bush Lake Road
- Overall traffic operations are acceptable



NEXT STEPS

- Study Advisory Committee meeting to discuss open house feedback
- Select preferred options for the intersections and corridor
- Present study findings and recommendations to City Council
- Study Report

COMMENTS/FEEDBACK

Please provide your input on the proposed intersection and corridor options

CONTACT INFORMATION

Website

www.ci.bloomington.mn.us

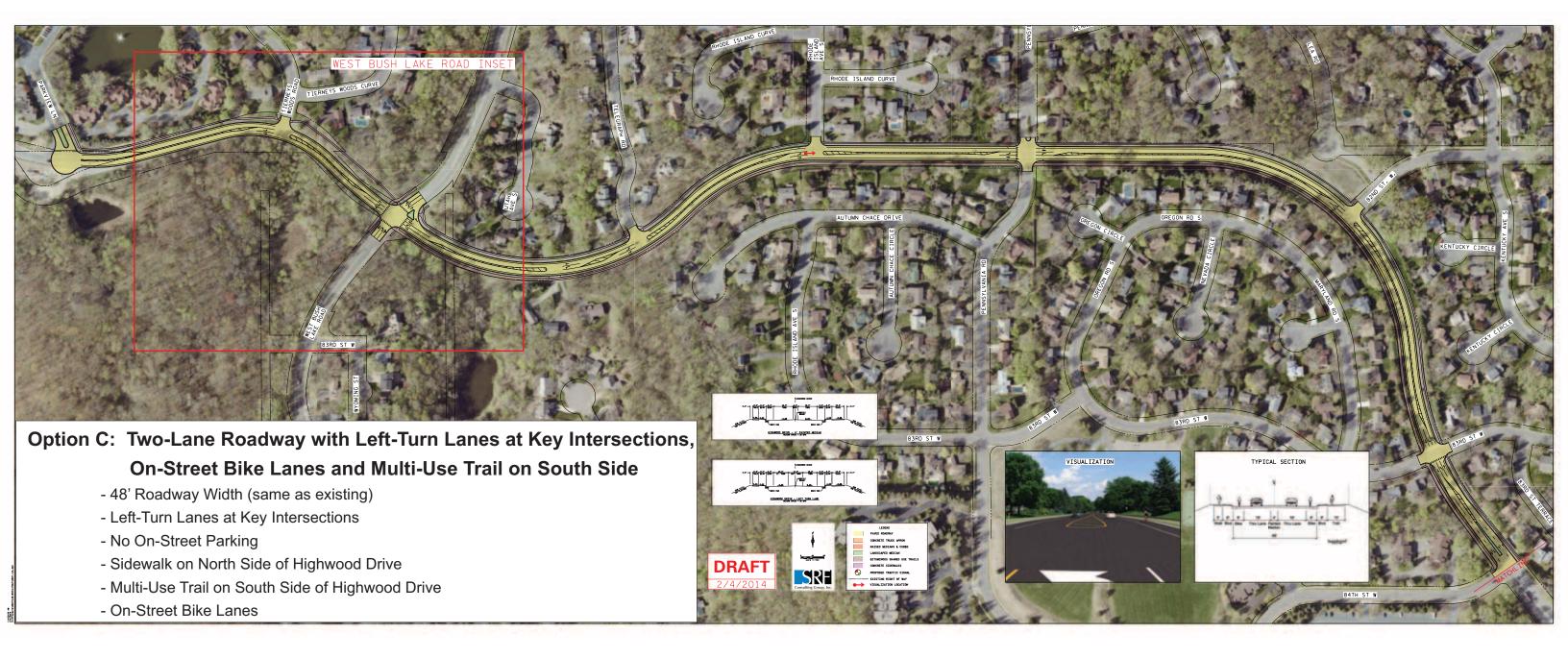
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City Contact

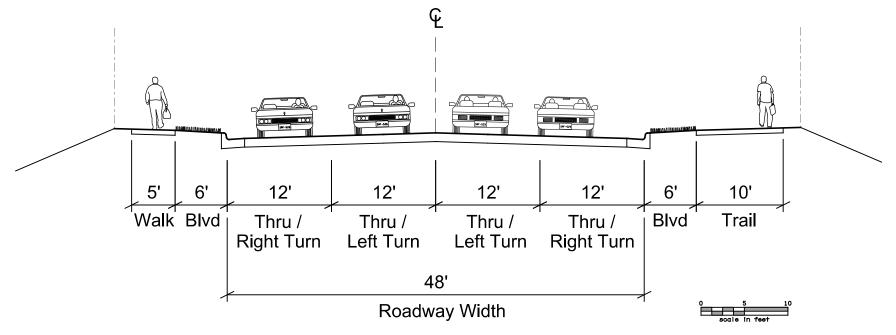
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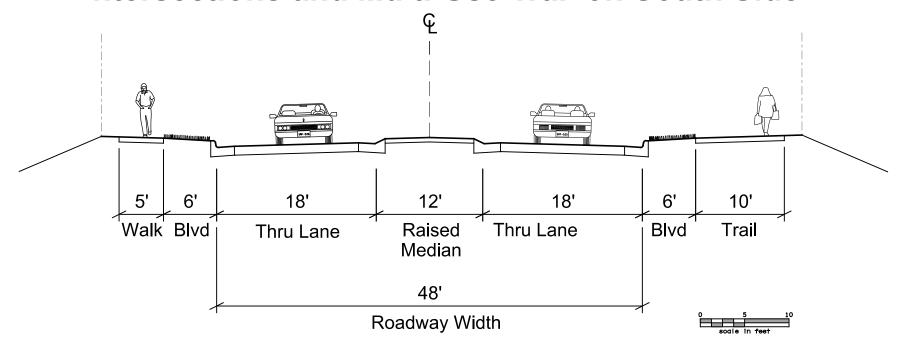




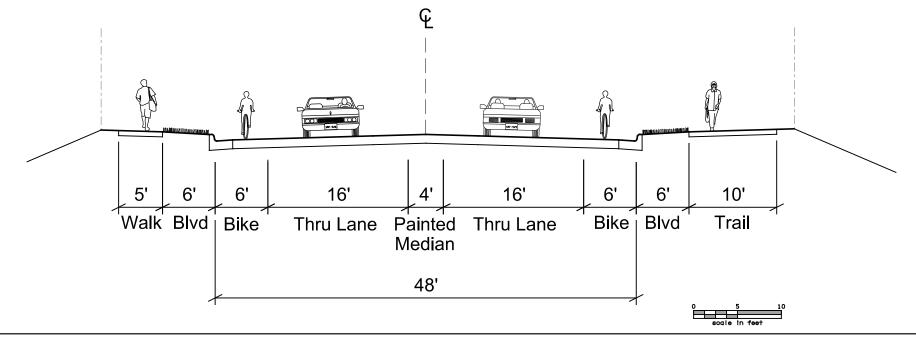
Option A - Four-Lane Undivided Roadway with Multi-Use Trail on South Side



Option B - Two-Lane Parkway with Left-Turn Lanes at Key Intersections and Multi-Use Trail on South Side



Option C - Two-Lane Roadway with Left-Turn Lanes at Key Intersections and Multi-Use Trail on South Side













Highwood Drive Intersection and Corridor Study COMMENT SHEET

Public Open House - Monday, February 10, 2014

Name:			
Address:			
Corridor Options			
On a scale of 1 to 3 (1 being the best, 3 being the worst) please rank the following roads	way o _l	otions:	
Option A Four-Lane Undivided Roadway with Multi-Use Trail on South Side	1	2	3
Option B Two-Lane Parkway with Left-Turn Lanes at Key Intersections and Multi-Use Trail on South Side	1	2	3
Option C Two-Lane Roadway with Left-Turn Lanes at Key Intersections, On-Street Bike Lanes and Multi-Use Trail on South Side	1	2	3
Off-Road Multi-Use Trail This option is a stand-alone feature that could be added to any of the corridor options. Please co think that this would add.	mmen	t on the	value you
On-Street Bike Lanes This option could be provided with either Option B or Option C. Please comment on the value yo street bike lanes are provided.	u find i	s added	if on-

Highwood Drive/East Bush Lake Road Options

On a scale of 1 to 3 (1 being the best, 3 being the worst) please rank the folio	Jwing intersection	η οριιοι	15.
Option 1 New Traffic Signal with Existing Roadway	1	2	3
Option 2 New Traffic Signal with Four Lanes	1	2	3
Option 3 Multi-Lane Roundabout	1	2	3
Highwood Drive/West Bush Lake Road Options			
On a scale of 1 to 2 (1 being the best, 2 being the worst) please rank the follow	owing intersectio	n option	ıs:
Option 1 All-Way Stop Controlled	1	2	
Option 2 Single-Lane Roundabout	1	2	
Please provide your input on the study results and boards presented at the country to the options, please explain why you support or dislike a specific option. Comments:	open house. For	comme	nts related