

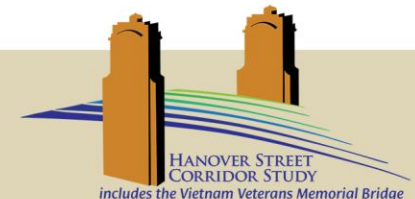
HANOVER STREET CORRIDOR STUDY

includes the Vietnam Veterans Memorial Bridge



Public Information Meeting

Wednesday, May 30, 2018



Tonight's Presentation

- Study Overview
- Process & Schedule
- Market Analysis
- Corridor Recommendations
- Next Steps



Study Overview

- **Purpose:** Identify improvements to the Vietnam Veterans Memorial Bridge and Hanover Street corridor to address accessibility, connectivity, and safety for multiple modes:
 - Bicycle
 - Pedestrian
 - Transit
 - Automobiles
 - Freight
- **Funding:** USDOT \$1.1 MM TIGER Grant and a \$700,000 match from Baltimore City
- **Study Limits:** Wells Street to Reedbird Avenue (a distance of 1.4 miles)







CATHERINE E. PUGH
MAYOR

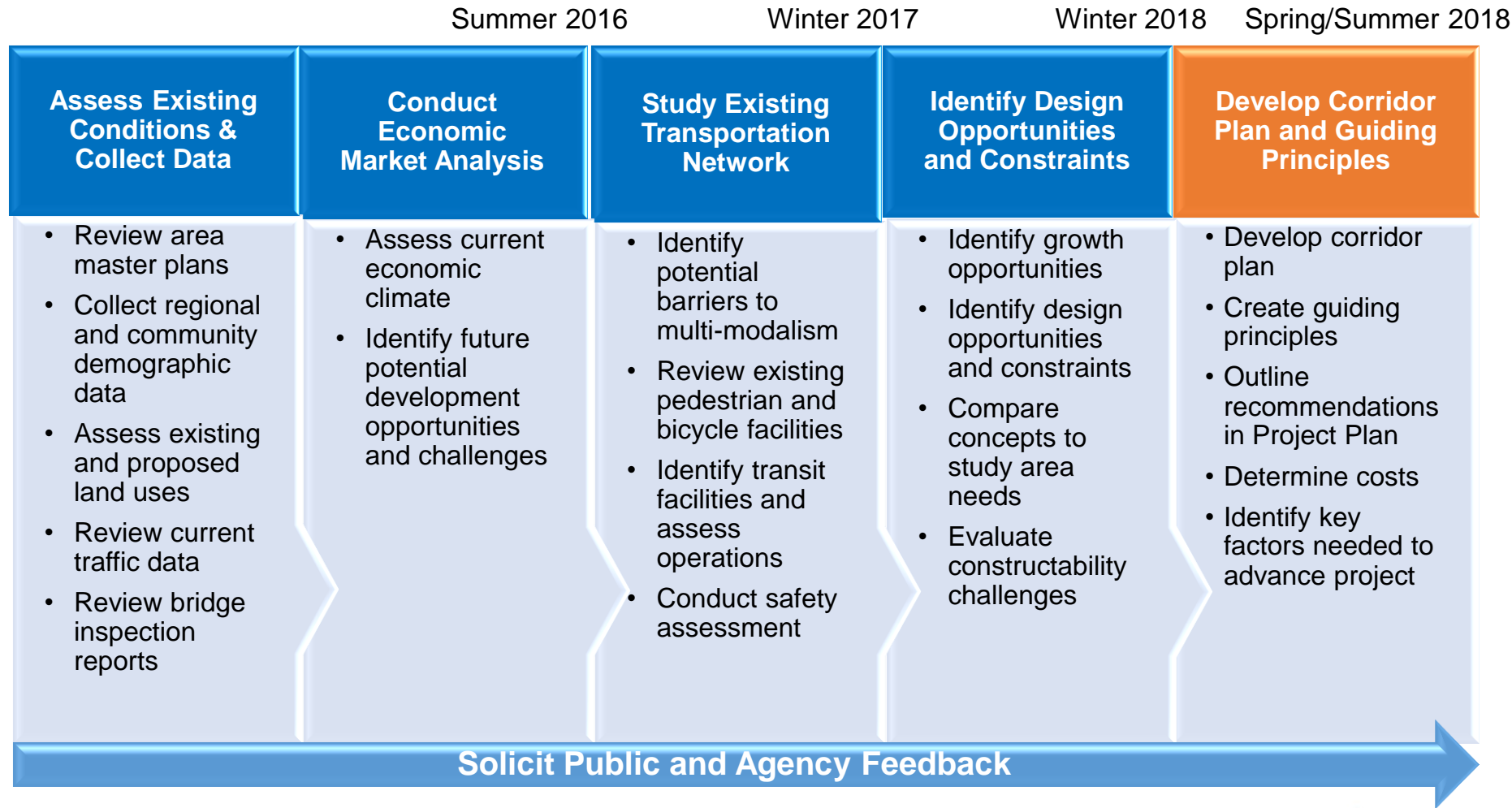


Adjacent Projects



-  Hanover St Corridor Study Area
-  I-95 Access Improvements Study
-  Port Covington
-  Port Covington (Under Armour Campus)

Process & Schedule



Market Analysis



Market Analysis

- Vietnam Veterans Memorial Bridge is a critical industrial link
- Residents – particularly south of the bridge – rely on transit for access to jobs
 - 45% of households without access to a vehicle
 - Local employment areas not necessarily areas where residents work
- Area has a large working-age population: workforce development and access to jobs is important
- Moderate household growth expected in the next several years
- Investment in infrastructure or economic development could positively impact demand
- Access and connections to transit and alternate modes critical for resident access to retail and larger supermarkets

Corridor Recommendations



CATHERINE E. PUGH
MAYOR



DEPARTMENT OF TRANSPORTATION
BALTIMORE CITY

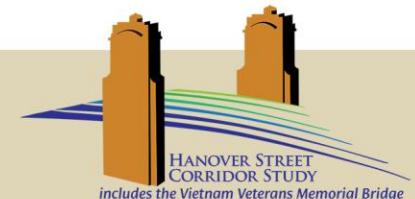


HANOVER STREET
CORRIDOR STUDY

includes the Vietnam Veterans Memorial Bridge

Corridor Recommendations

Enhance safety, connectivity, and accessibility for all modes of travel and promote better compatibility among all modes within the Hanover Street corridor centered on the Vietnam Veterans Memorial Bridge



Corridor Recommendations – Roadway

Roadway

- Reconstruct with concrete pavement north of the bridge to Cromwell Street and south of the bridge to Waterview Avenue
- Resurface (asphalt overlay) remaining roadway within corridor
- Clean all existing inlets, pipes, and bridge scuppers and inspect the existing storm drain system
- Upgrade traffic / pedestrian signals
- Remove channelized / free-right turn movements

Corridor Recommendations – Pedestrian

Pedestrian

- Add pedestrian lighting
- Enhance crosswalks
- Provide pedestrian signals at all signalized intersections
- Clear debris from all sidewalks
- Provide full ADA access throughout corridor, including curb ramps and sidewalk clearances
- Reconstruct stairwell connecting Hanover Street to the Gwynns Falls Trail



Corridor Recommendations – Bicycle

Bicycle

- Provide separated bike facility along the corridor, including on the bridge
- Potential opportunity for emerging bike facility technology
- Provide connections to existing and planned bike facilities identified in the 2015 *Bike Master Plan* and 2017 *Separated Bike Lane Network Addendum*, to include:
 - Existing Gwynns Falls Trail / East Coast Greenway / Middle Branch Park
 - Existing Port Covington shared use path and cycle track
 - Planned separated facility connecting to Brooklyn and Anne Arundel County
 - Planned separated facility connecting to South Baltimore, Federal Hill, and Downtown
 - Planned Baltimore Greenway Trails Network 35 mile loop



Corridor Recommendations – Transit

Transit

- Evaluate transit enhancements once the impacts of BaltimoreLink have been quantified
- Provide enhanced bus stops to include sidewalk access, benches, trash receptacles, and shelters



Corridor Recommendations – Urban Design

Urban Design

- Create unique urban areas under the bridge
- Provide enhanced recreation amenities

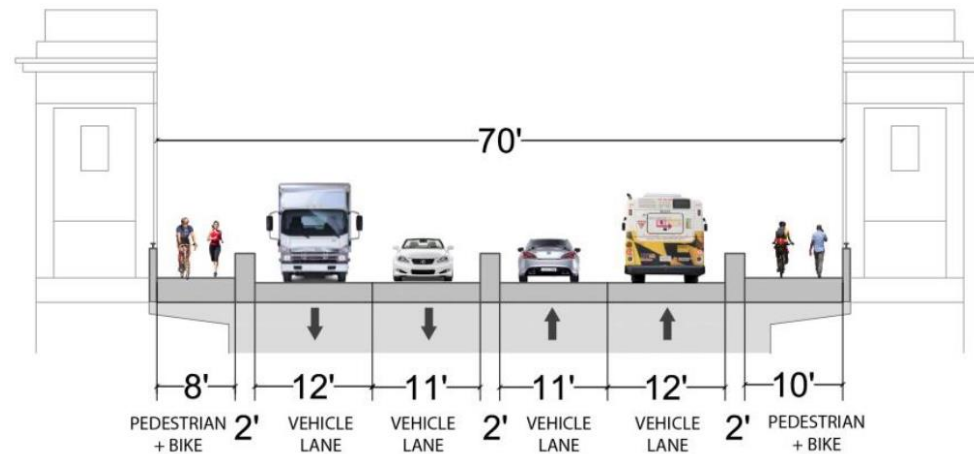


Corridor Recommendations – Bridge

Bridge Structures

- Recommend the long-term major rehabilitation option “Option 3 – Four Lane Section with Fixed Span in the Closed Position”
- **Total cost (2018 \$): \$50.0 million**

Option 3: Four-Lane Section

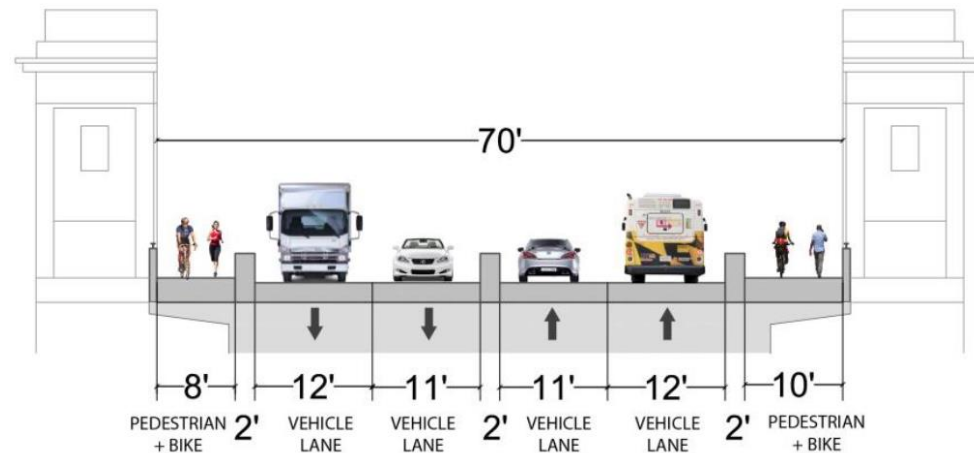


Corridor Recommendations – Bridge

Bridge Structures

- Specialized engineering work required to verify additional service life
- Permanently fixing the movable span in the closed position would save the City annual maintenance costs
- Approval from the United States Coast Guard will be required to permanently fix the movable span in the closed position

Option 3: Four-Lane Section

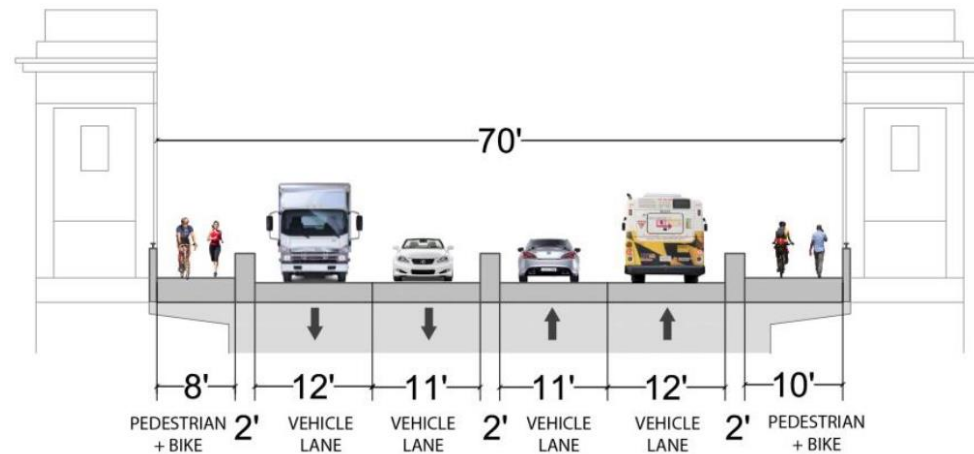


Corridor Recommendations – Bridge

Bridge Structures

- 2040 traffic analysis – travel times are consistent regardless of the number of lanes on the bridge
- Enhanced pedestrian and bicycle space in each direction (8' and 10') using the existing bridge width

Option 3: Four-Lane Section



Next Steps

- Project Documents
 - Draft Project Report posted on BCDOT website
 - <http://transportation.baltimorecity.gov/tiger/hanover-st>
 - Comment period: May 31, 2018 – June 30, 2018
 - HanoverSt.BridgeStudy@baltimorecity.gov
 - Final Project Report submitted to FHWA July 13, 2018

Next Steps

Key Factors to Advance the Project

- Structural studies / testing
- Perform National Environmental Policy Act (NEPA) Study
- Request approval to permanently fix the movable bridge span in the closed position from the US Coast Guard
- Identify funding opportunities

Next Steps

Draft Project Report Comment period

May 31, 2018 – June 30, 2018

Project website:

<http://transportation.baltimorecity.gov/tiger/hanover-st>

Submit comments via e-mail:

HanoverSt.BridgeStudy@baltimorecity.gov

Submit comments by mail:

Hanover Street Corridor Study
Baltimore City Department of Transportation
Transportation Planning Division
417 East Fayette Street, Room 747
Baltimore, Maryland 21202

Copies available for review at:

Baltimore City Department of Transportation
417 East Fayette Street, 5th floor
Baltimore, Maryland 21202

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