



**Gallows Road (RTE. 650) over Arlington Boulevard (RTE. 50)
Fairfax County
Bridge Rehabilitation, Preventive Maintenance and Pier Repairs**

Phase 1 - Project No. 0650-029-235; UPC 106956, Pier Repair

Phase 2 - Project No. 0650-029-239; UPC 106949, Bridge Rehabilitation

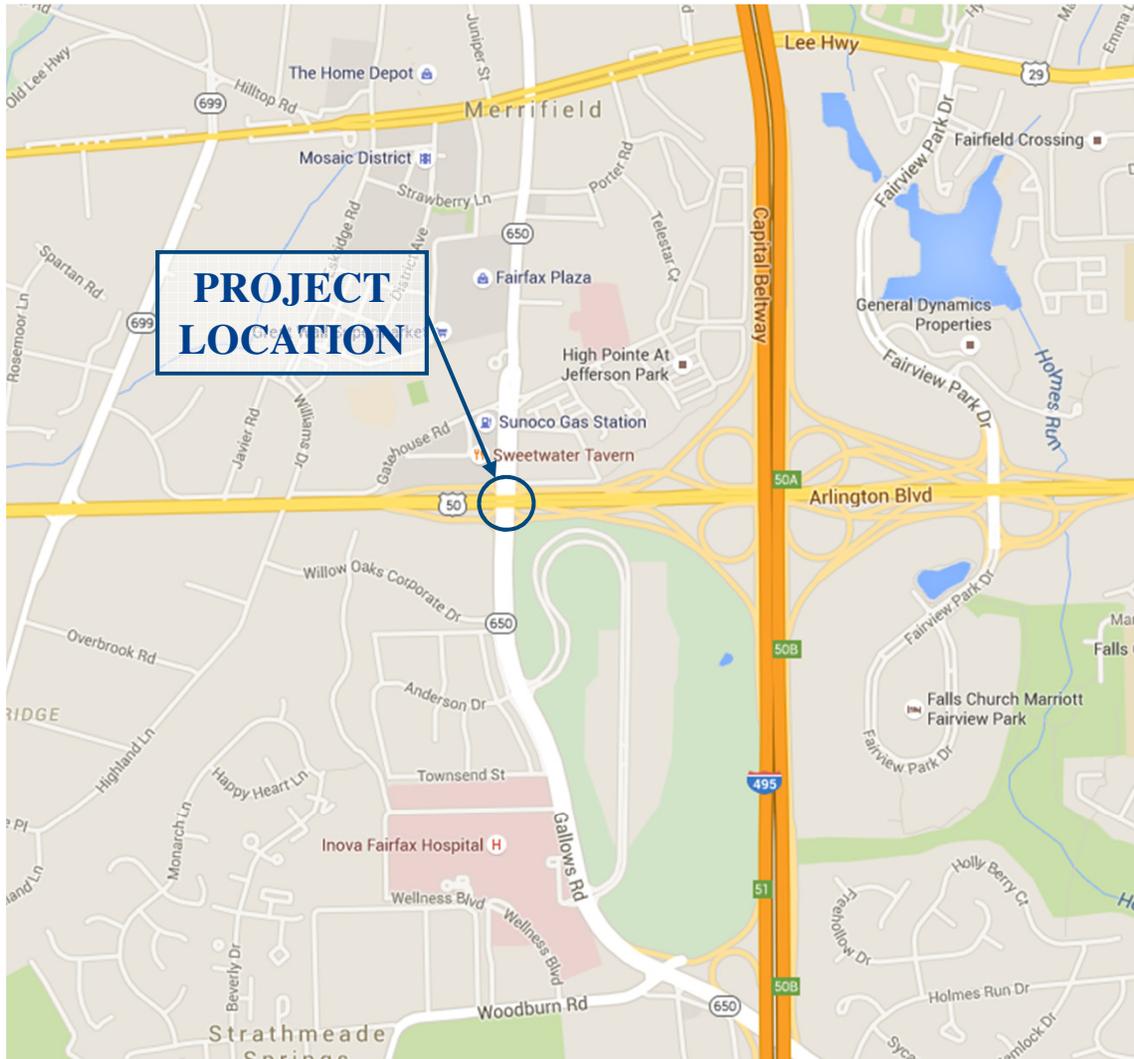
Federal Project No. STP-BR09(286)

Project Web Page: www.virginiadot.gov

PUBLIC INFORMATION MEETING

June 24, 2015

PROJECT LOCATION



PROJECT OVERVIEW



EXISTING BRIDGE DESCRIPTION

- The bridge was built in 1985. The asphalt overlay was replaced and the expansion dams reconstructed in 1993.
- The Bridge carries 6 thru lanes (3 in each direction), 2 turning lanes, and 11'-0" and 13'-0" wide sidewalks
- The Bridge is 128' long (two simple spans, 69' and 57') and 195'-0" wide (169'-0" wide curb-to-curb)
- Concrete deck and steel plate girder superstructure

PROJECT OVERVIEW



EXISTING BRIDGE DESCRIPTION, CONT.

- **Roadway Classification: Minor Arterial (Rte 650), Other Principal Arterial (Rte 50)**
- **Posted Speed Limit: 35 mph (Rte 650), 45 mph (Rte 50)**
- **2014 Average Daily Traffic (ADT) Data: 39,000 vehicles (Rte 650) and 40,000 vehicles (Rte 50)**

PROJECT BACKGROUND

Project initiated by VDOT for the rehabilitation and repair of the structurally deficient Bridge.

Bridge Substructure: (Construction Phase 1)

- Condition Rating 4 (poor condition for pier caps). Abutments (fair condition)
- At both ends of the pier, the concrete spalls, broken stirrups and corroded reinforcing steel in the pier cap and columns will be repaired
- A waterproofing coating will be applied to the substructure

Bridge Superstructure: (Construction Phase 2)

- Condition Rating 5 (fair condition)
- 100% section loss in the web at the ends of steel girders will be repaired
- Bridge deck joints at the pier and abutments will be eliminated. Deck slab extensions will be constructed at the abutments. Bearings will be replaced as required to accommodate the deck joint closure at the pier.
- Asphalt overlay on bridge will be replaced with LMC-VE Latex concrete overlay
- Steel girders and bearings will be cleaned and painted
- Bridge mounted signal poles may be relocated off the bridge

PROJECT BACKGROUND

Construction Phase 1 – Pier Repair



Spalling concrete, broken stirrups and section loss in reinforcing steel in pier cap and column

PROJECT BACKGROUND

Construction Phase 2 – Bridge Rehabilitation



Severe corrosion with holes in webs at ends of steel girders

PROJECT BACKGROUND

Construction Phase 2 – Bridge Rehabilitation



Signal poles and brackets may be relocated off of bridge

PROPOSED WORK

Construction Phase 1 - Pier Repair

- **Substructure repair: repair concrete spalls, broken stirrups and corroded reinforcing steel in the pier caps and columns to restore structural capacity**

Construction Phase 2 – Bridge Rehabilitation

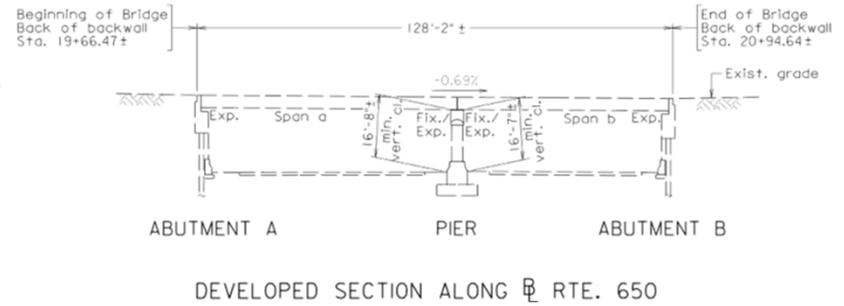
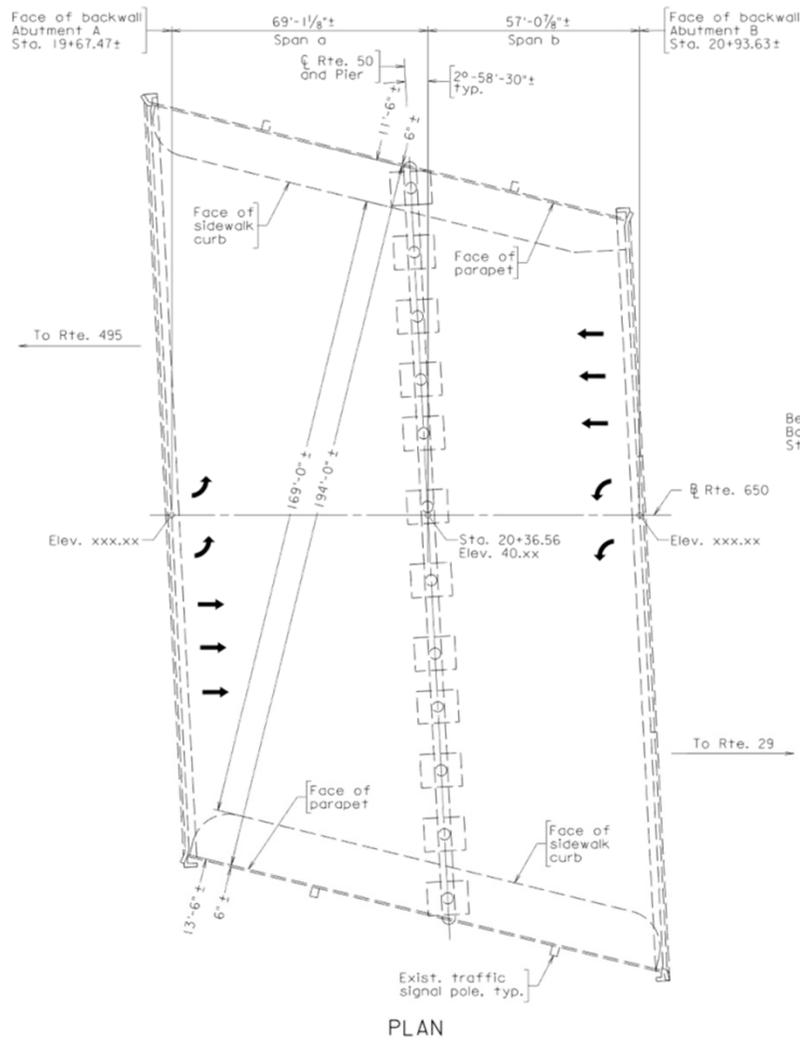
- **Deck repair, including deck milling and latex modified concrete overlay (LMC-VE) and sidewalk repair**
- **Steel plate girder repairs, clean and paint girders and bearings**
- **Eliminate deck joints: joint closure at Pier and deck slab extensions at Abutments. Bearings will be replaced as required to accommodate the deck joint closure at the pier.**
- **Bridge mounted signal poles may be removed from the bridge fascia girders and relocated off of bridge**

Prepare MOT plans to create construction work zones for use during night time or non-peak conditions; including lane closures on Rte 650 and Rte 50 and for Rte 650 on/off ramp closures and detours

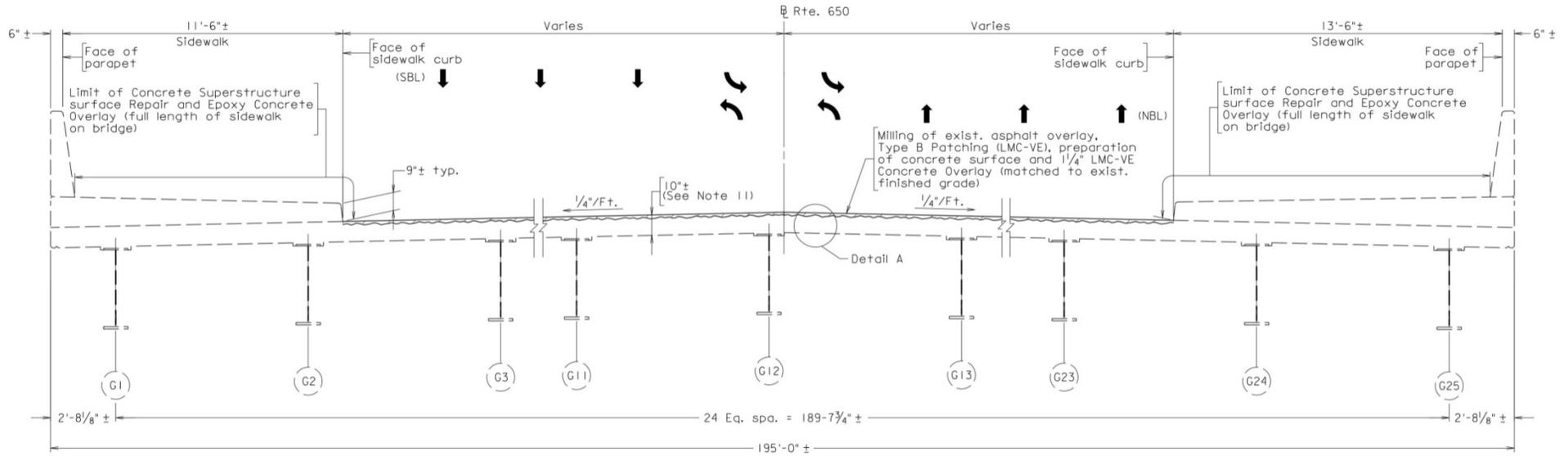
No interruption of existing utilities

All final work planned within existing VDOT right of way

PROPOSED BRIDGE PLAN AND ELEVATION

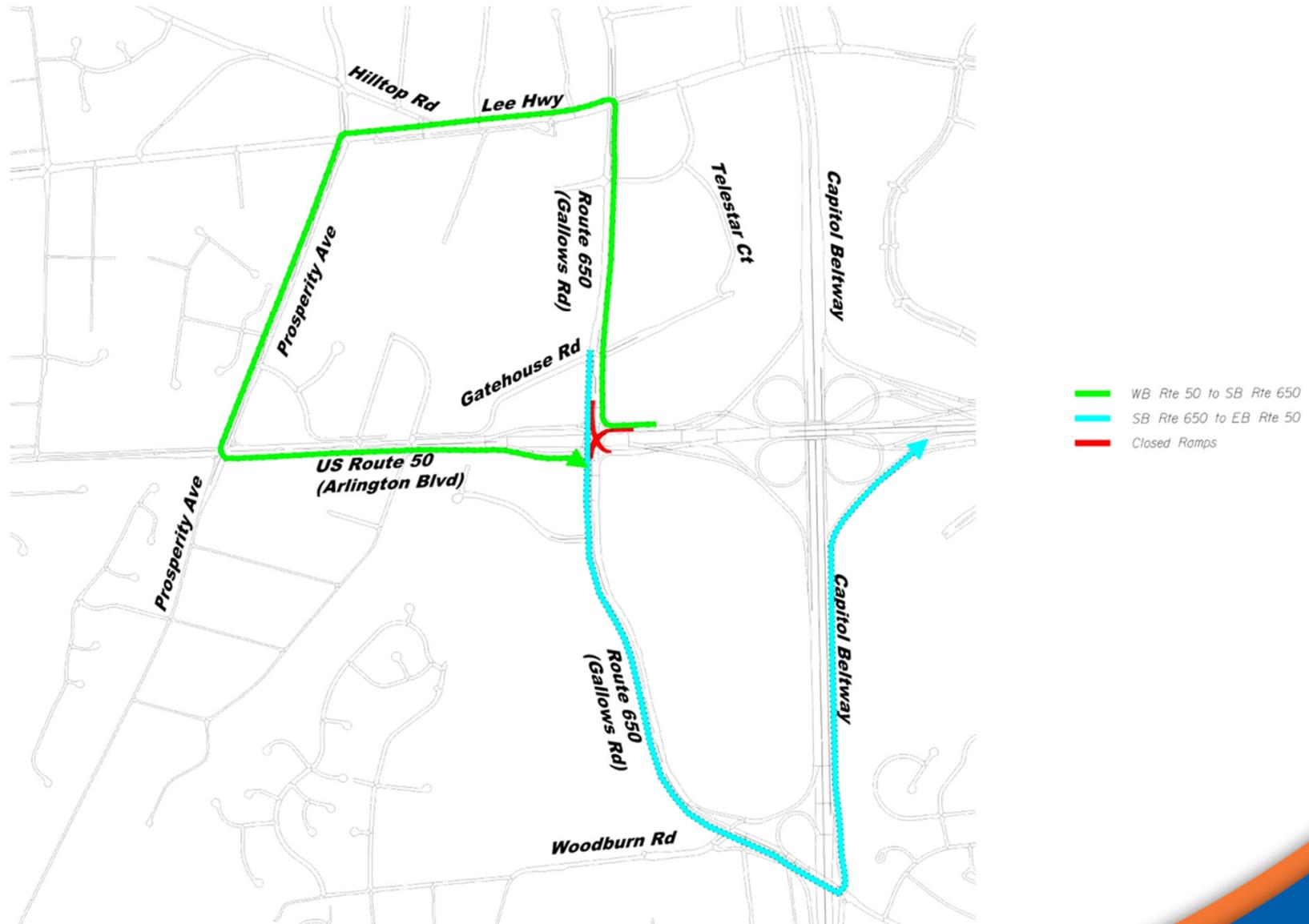


PROPOSED TRANSVERSE SECTION

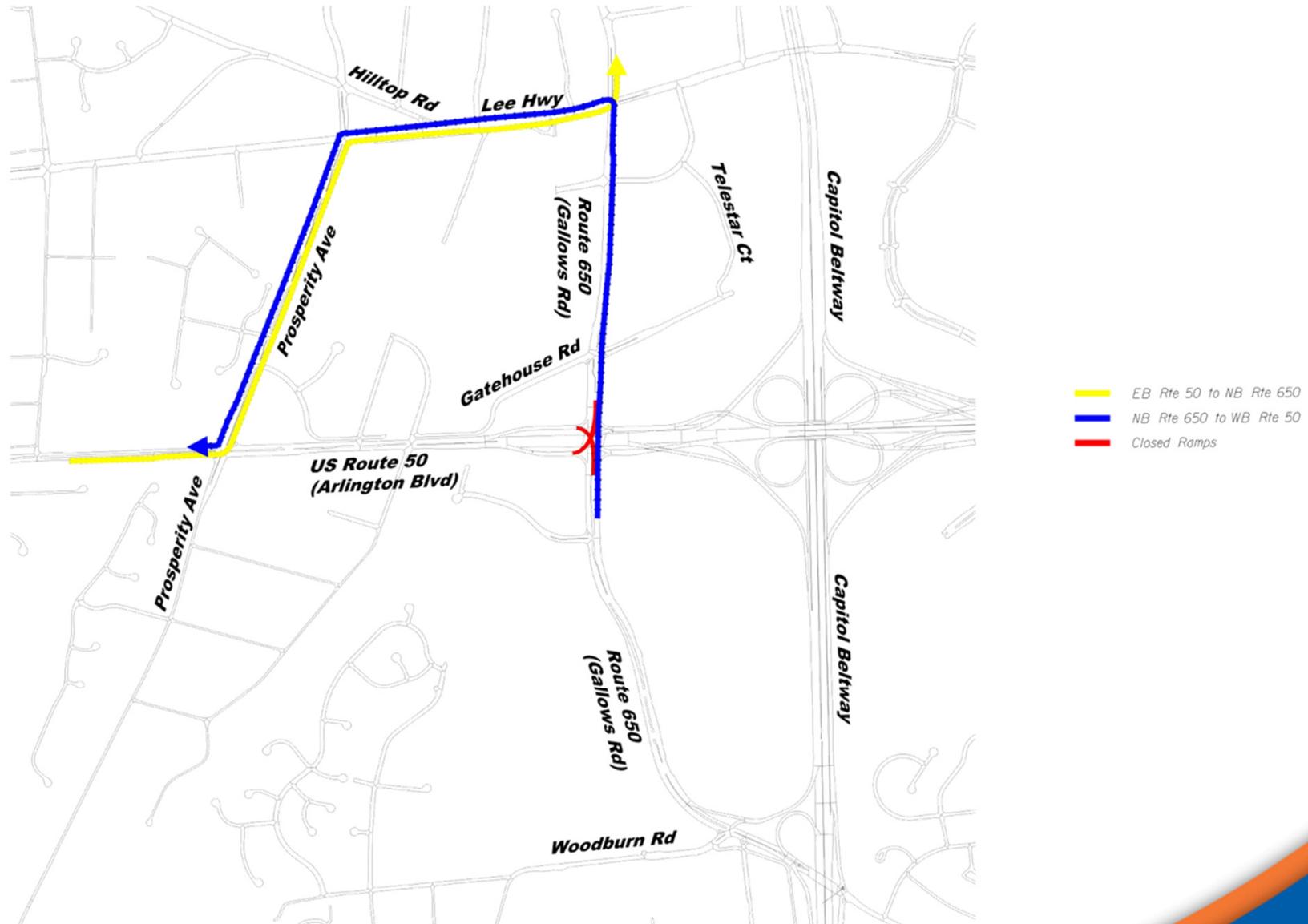


TRANSVERSE SECTION
(Perpendicular to girders)

PROPOSED DETOUR ROUTE



PROPOSED DETOUR ROUTE



ANTICIPATED SCHEDULE AND COST

Anticipated Schedule:

Construction Phase 1 - Pier Repair

- **Begin Construction: September 2015**
- **Construction Completion: October 2015**

Construction Phase 2 – Bridge Rehabilitation

- **Advertisement for Construction: March 2016**
- **Begin Construction: June 2016**
- **Construction Completion: November 2016**

Estimated Project Cost:

- **Total Cost: \$2.63 million (P.E and Construction)**
 - **Phase 1: P.E. \$130,000
Construction \$380,000**
 - **Phase 2: P.E. \$320,000
Construction \$1,800,000**

Contact VDOT:

Customer Service Center: 1-800-FOR-ROAD (1-800-367-7623)

TTY users can call 711

Please take some time to discuss the project with the staff here tonight or send your comments to VDOT:

Attention: Mr. Vicente Valeza

Virginia Department of Transportation, 4975 Alliance Drive, Fairfax VA 22030

Or email meeting_comments@VDOT.virginia.gov

Please reference “Gallows Road over Route 50” in the subject line.

VDOT web page:

www.virginiadot.gov

Direct link to the project web page:

http://www.virginiadot.org/projects/northernvirginia/gallows_over_50.asp

**THANK YOU!
QUESTIONS?**