



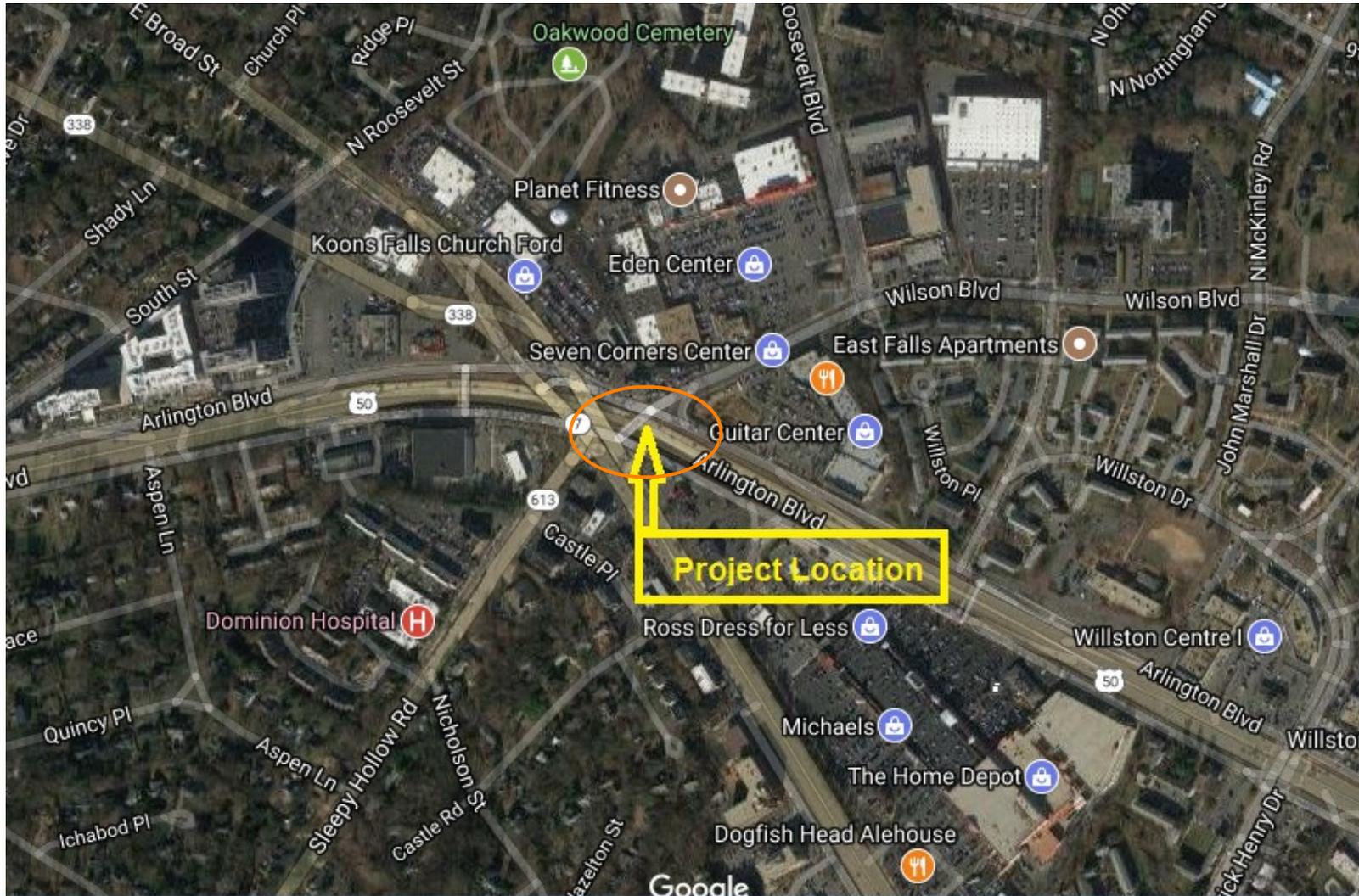
**Wilson Boulevard over Arlington Boulevard
Fairfax County
Bridge Rehabilitation**

Project No. 0613-029-380; UPC 111320

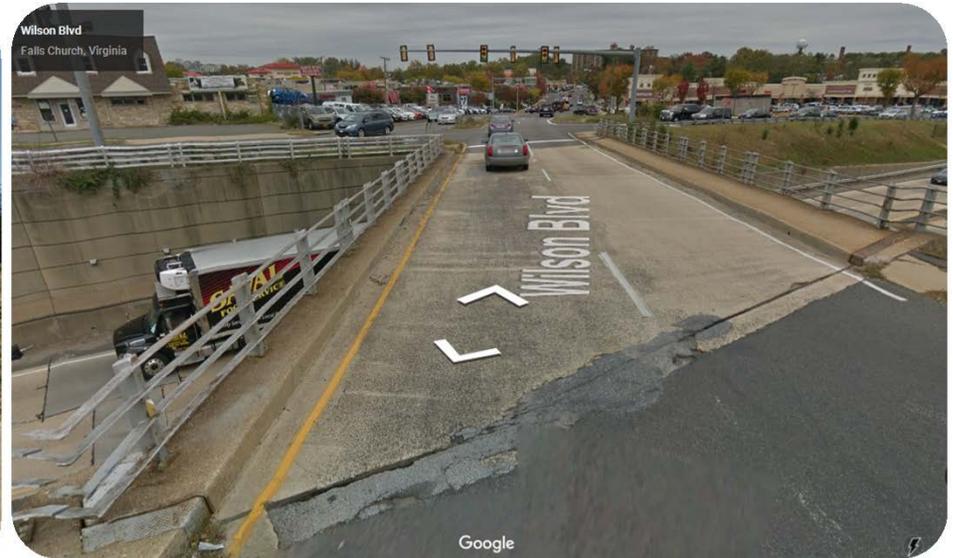
VICENTE VALEZA, PE – Project Manager, Structure & Bridge NOVA

**KICK-OFF/PRE-SCOPING MEETING
August 15, 2017, Tuesday**

PROJECT LOCATION



PROJECT OVERVIEW



EXISTING BRIDGE DESCRIPTION

- The bridge was built in 1958 with a composite concrete deck on steel rolled beams with cover plates. In 1999, a 1 ¼" thick concrete overlay was placed on the deck after milling ½" of the existing deck thus reducing the structural concrete deck to 7" (7 ½" originally).
- The Bridge is approximately 86' long and 36'-10" wide out-to-out (includes 5' right sidewalk). The existing min. vertical clearance is 14'-11".
- The Bridge carries 2 lanes of EB Wilson Boulevard. Clear distance curb-to-curb is 28'-0".

PROJECT OVERVIEW



EXISTING BRIDGE DESCRIPTION, CONT.

- **Roadway Classification: Secondary (Wilson Blvd); Primary (Arlington Blvd)**
- **Functional Classification: Urban Principal Arterial (Wilson Blvd); Major Arterial (Arlington Blvd)**
- **Posted Speed Limit: 30 mph (Wilson Blvd); 45 mph (Arlington Blvd)**
- **2016 ADT Data: Wilson Blvd - 7,500; 1% Truck = 75**
- **2016 ADT Data: Arlington Blvd – 50,000 (Total); 1% Truck = 500**

EXISTING CONDITIONS

Bridge Deck:

- Condition Rating 4 (Poor Condition)
- Bottom of the deck in poor condition due to numerous cracks, spalls and delaminated areas.
- Concrete overlay in fair condition due to numerous cracks, scaling and delaminations.

Bridge Superstructure:

- Condition Rating 7 (Good Condition)
- The steel beams showing light surface rust and areas of peeling paint

Bridge Substructure:

- Condition Rating 6 (Fair Condition)
- The abutment walls are in fair condition with spalls, cracks and delaminated concrete areas.

Overall Sufficiency Rating: 72.5

EXISTING CONDITIONS



No proper transition from bridge sidewalk to approach roadway sidewalk.



Deck joints are in poor condition.



Non-crash tested barriers

EXISTING CONDITIONS BRIDGE SUPERSTRUCTURE



Steel rolled beams with cover plates are in good condition.

EXISTING CONDITIONS SUBSTRUCTURE

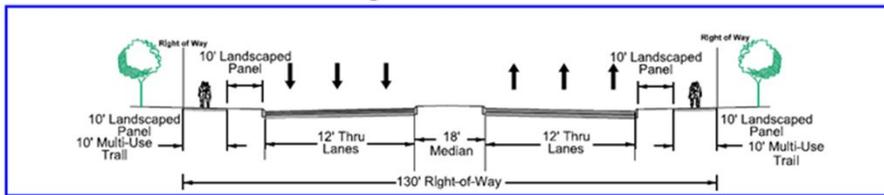


Spalled concrete,
delaminations, hairline cracks
and exposed rebar at Abutment
Breastwall.

FAIRFAX COUNTY PROPOSED IMPROVEMENTS

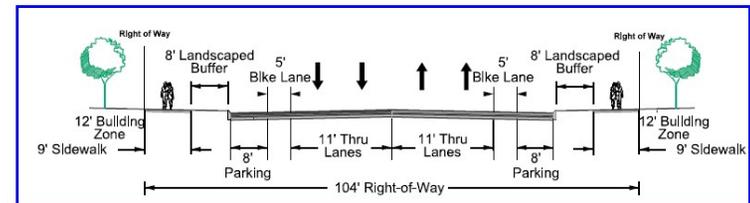


Arlington Boulevard



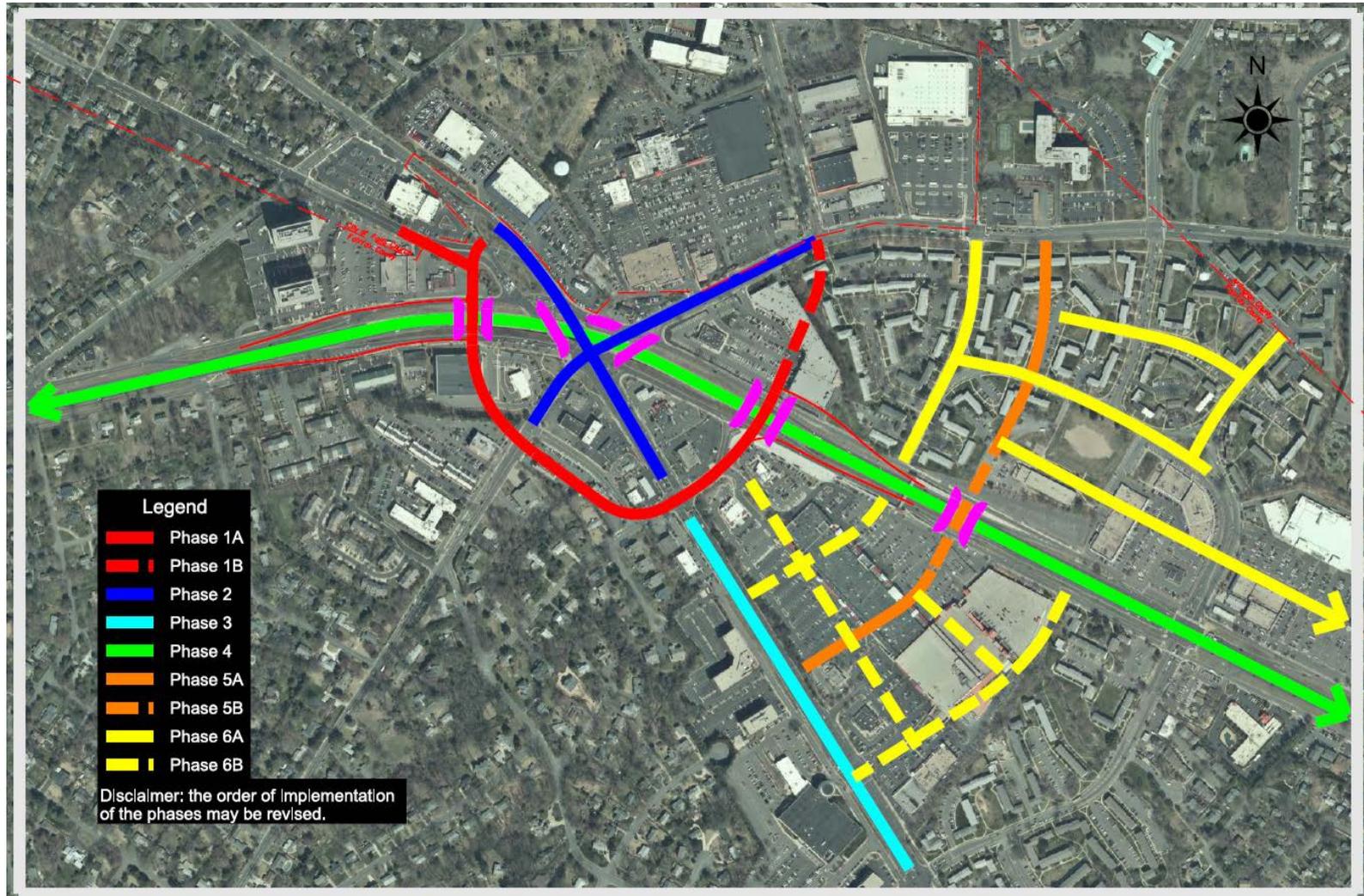
Multimodal Through Corridor

Wilson Boulevard



Major Avenue

FAIRFAX COUNTY PROPOSED IMPROVEMENTS



ANTICIPATED SCHEDULE AND COST

Anticipated Schedule:

Construction – Bridge Repair

- Advertisement for Construction: November 13, 2018
- Begin Construction: March, 2019
- Construction Completion: November, 2019

Estimated Project Cost: (SGR Funded)

Total Cost: \$2.50 million (PE and CN)

PE \$ 300,000

CN \$ 2.20 million

THANK YOU

QUESTIONS & COMMENTS