



# **Route 50 Widening Design/Build Project**

# The Project Team

- Virginia Department of Transportation
- Shirley Contracting Company
- Dewberry
- Fairfax and Loudoun Counties



# Objectives

- Provide an Overview of the Project
- Discuss the Current Project Schedule and Upcoming Milestone Dates
- Describe Current & Completed Construction Activities
- Answer Your Questions



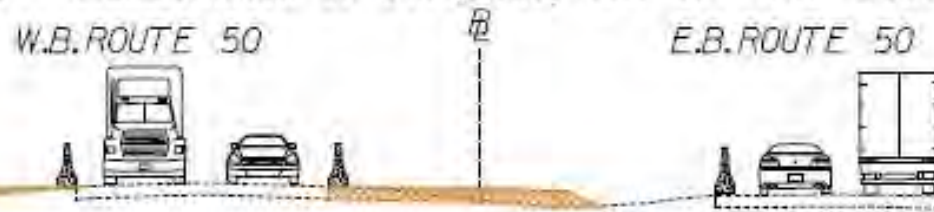
# Major Design Features

- **Ultimate Six Lane Roadway**
- **Signals at Tall Cedars Pkwy, Both Pleasant Valley Rds, Stonecroft Blvd, Avion Pkwy and Lee Rd**
- **Paved 10' Wide Shared Use Path on North and South Sides**
- **New Bridges Over Cub Run**
- **Complete Reconstruction of All Pavement**

# Construction Sequence Stages 1, 2 & 3

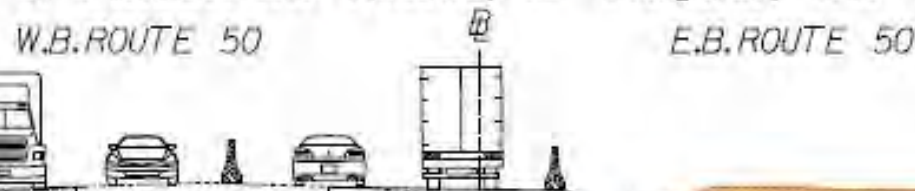
STAGE 1A & 1B - Construction of Temporary EB & WB Travel Lanes

Complete.

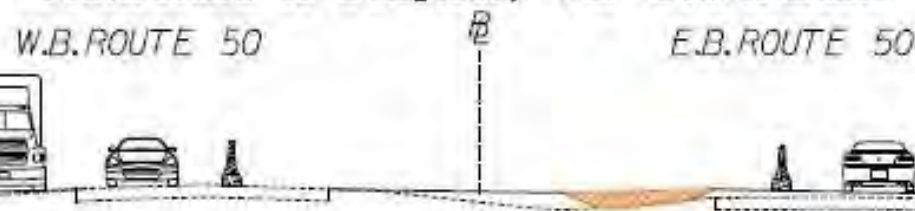


STAGE 2 - Construction of Ultimate EB Roadway & Temporary WB Travel Lanes

Stonecroft Blvd  
to Lee Road.



STAGE 3 - Construction of Temporary WB Travel Lanes



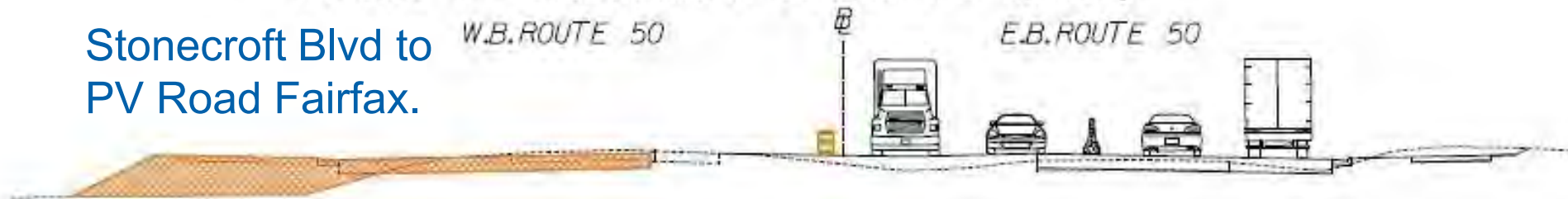
# Construction Sequence Stages 4 & 5

## STAGE 4 - Construction of Ultimate WB Roadway

Stonecroft Blvd to  
PV Road Fairfax.

W.B. ROUTE 50

E.B. ROUTE 50

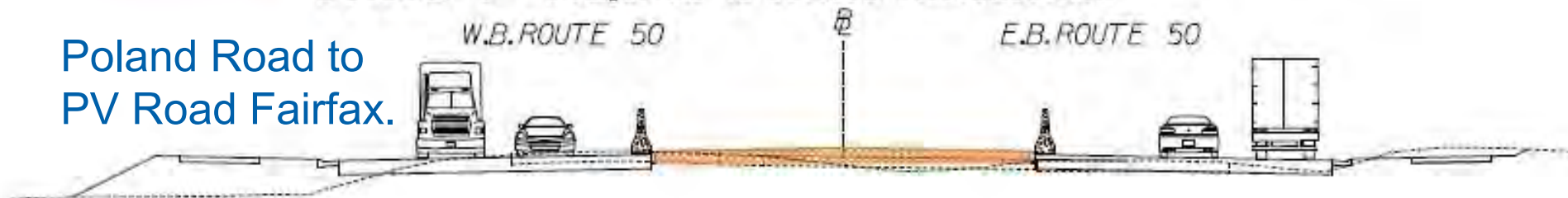


## STAGE 5 - Completion of Median Reconstruction

Poland Road to  
PV Road Fairfax.

W.B. ROUTE 50

E.B. ROUTE 50





# Project Schedule

<b>May 2011</b>	Kick-Off to Design/Build
<b>Fall 2011</b>	Complete Design, Obtain Permits
<b>September 2011</b>	Begin Construction
<b>Dec 2011- End 2012</b>	Right-of-way Acquisitions
<b>Summer 2012 - Present</b>	Utility Relocations
<b>November 2015</b>	Construction Complete

# Upcoming Milestones

**June 2014**

Complete WB (2 Lanes) from  
Stonecroft Blvd to PV Road Fairfax

**July 2014**

Complete EB (2 Lanes) at  
Tall Cedars Parkway

**August 2014**

Complete EB (3<sup>rd</sup> Lane) from  
Poland Road to Stonecroft Blvd

**September 2014**

Complete EB (2 Lanes) from  
Lee Road to Stonecroft Blvd

**December 2014**

Complete WB (3<sup>rd</sup> Lane) from  
Stonecroft Blvd to Poland Road

**December 2014**

Complete Permanent Signals at  
Poland Road, Tall Cedars  
Parkway, PV Road Loudoun &  
Fairfax



# Upcoming Milestones

**December 2014**

Complete & Open WB (2 Lanes)  
from Lee Road to Stonecroft Blvd

**December 2014**

Complete & Open Spur Ramp to  
Lee Road from Route 28 South

**May 2015**

Complete & Open WB (3<sup>rd</sup> Lane)  
from Lee Road to Stonecroft Blvd  
(Three Lanes Open in Both  
Directions Throughout Project)

**June 2015**

Complete Permanent Signals at  
Stonecroft Blvd, Avion Parkway and  
Lee Road

**October 2015**

Complete Trails, Surface Paving,  
Permanent Signage, Permanent  
Striping & Permanent Seeding)

**November 2015**

Complete Punchlist

# Completed Project Activities

- **Right-of-way Acquisitions (75 Properties)**
- **Utility Relocations (Electric)**
  - Dominion Virginia Power
    - Overhead – 12,800 feet & 78 poles
    - Underground – 3,700 feet



# Completed Project Activities

## ➤ Utility Relocations (Communications)

- Verizon Northern Virginia
  - Overhead – 9,200 feet Fiber
- Cox Communications
  - Overhead – 17,000 feet Fiber
- Comcast Communications
  - Overhead – 500 feet Fiber
- MCI / Zayo Communications
  - Underground – 9,600 feet Fiber
- Verizon South
  - Underground - 7,800 feet Fiber & Copper
  - Overhead – 8,700 feet Fiber



# Completed Project Activities

## ➤ Utility Relocations (Gas)

### ➤ Washington Gas

➤ 1,500 feet 12" Steel

➤ 2,000 feet 6" Plastic

### ➤ Columbia Gas

➤ 400 feet 6" Plastic





# Completed Project Activities

## ➤ Utility Relocations (Self Performed)

### ➤ Loudoun Water

#### ➤ 5,800 feet 36" Watermain

### ➤ Fairfax Water

#### ➤ 2,200 feet 12" Watermain

#### ➤ 900 feet 36" Watermain

#### ➤ 8,400 feet 24" Watermain



# Completed Project Activities

## ➤ Utility Relocations (Self Performed)

### ➤ Fairfax Sanitary Sewer

#### ➤ 200 feet 36" Sewer Main

#### ➤ 900 feet 6" Lateral Relocation





# Completed Project Activities

## ➤ Demolition

- 120,000 SY Asphalt Demolished (4,000 Truck Loads)
- 11,000 feet Curb & Gutter Demolished
- 5,000 feet Guardrail Removed

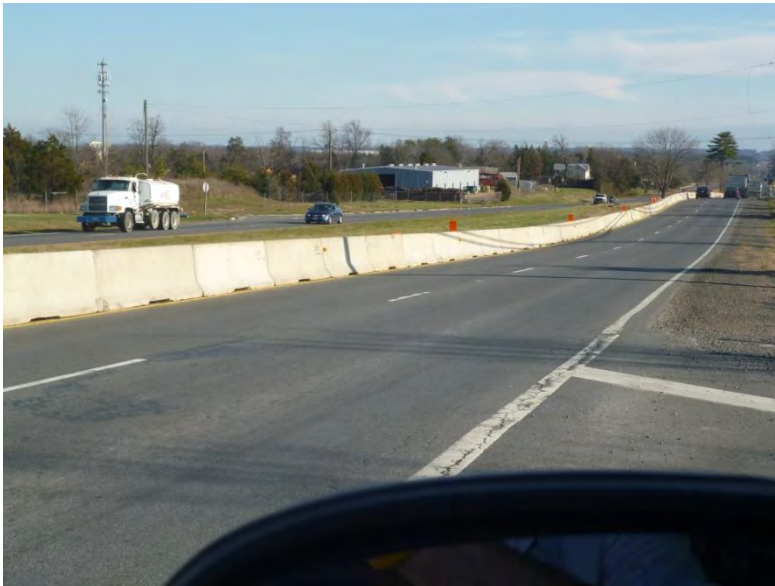




# Completed Project Activities

## ➤ Roadway Barrier

- 120,000 feet Set & Relocated (22 Miles, 1200 Truck Loads)



# Completed Project Activities

## ➤ Temporary Pavement

- 70,000 SY Roadway Grading
- 30,000 Tons Roadway Stone Placed (1500 Truck Loads)
- 39,000 Tons Asphalt Placed (1950 Truck Loads)



# Completed Project Activities

## ➤ Earthwork

- 200,000 Cubic Yards of Dirt Moved (25,000 Truck Loads)
- 4 Stormwater Management Ponds Installed





# Completed Project Activities

## ➤ Storm Drainage

- 23,000 feet Storm Pipe Installed (4 miles)
- 220 Storm Structures Installed



# Completed Project Activities

## ➤ Permanent Roadway

- 32,000 Tons Roadway Stone Placed (1600 Truck Loads)
- 15,500 feet Underdrain Installed
- 15,000 feet Curb & Gutter Installed
- 75,000 Tons Asphalt Placed (3750 Truck Loads)





# Completed Project Activities

## ➤ Box Culverts

- 485 feet Reinforced Double Barrel Box Culvert
- 1,000 CY Concrete Placed (100 Truck Loads)
- 175,000 LBs Rebar Installed



# Completed Project Activities

## ➤ Retaining Walls

➤ 640 feet Concrete Retaining Wall

➤ 400 CY Concrete Placed (40 Truck Loads)





# Completed Project Activities

## ➤ Cub Run Bridge (Eastbound & Westbound)

- 1,200 feet Piling Installed (112 Piles)
- 600 CY Concrete Placed (Substructures)
- 14 Concrete Girders Installed
- 960 CY Concrete Placed (Deck Superstructures)
- 400 feet Parapets, Railing & Fence Installed



# Public Communication of Upcoming Traffic Changes

- **VDOT to Send Public Notifications for Major Shifts**
- **Notices will be provided to Supervisors / Delegates**
- **Notices will be distributed to Email distribution list**
- **Fire, Rescue, and schools notified**
- **Variable Message Boards will be placed one week in advance**

# For More Information About Route 50 Widening Project:

[http://www.virginiadot.org/projects/northernvirginia/route\\_50\\_widening.asp](http://www.virginiadot.org/projects/northernvirginia/route_50_widening.asp)

(this webpage will be updated throughout the project development)

Or Google: "Route 50 Widening"

## Questions and Answers