



## PUBLIC INFORMATION MEETING

### **Route 220 Safety Improvement Project**

State Project Numbers: 0220-011-786

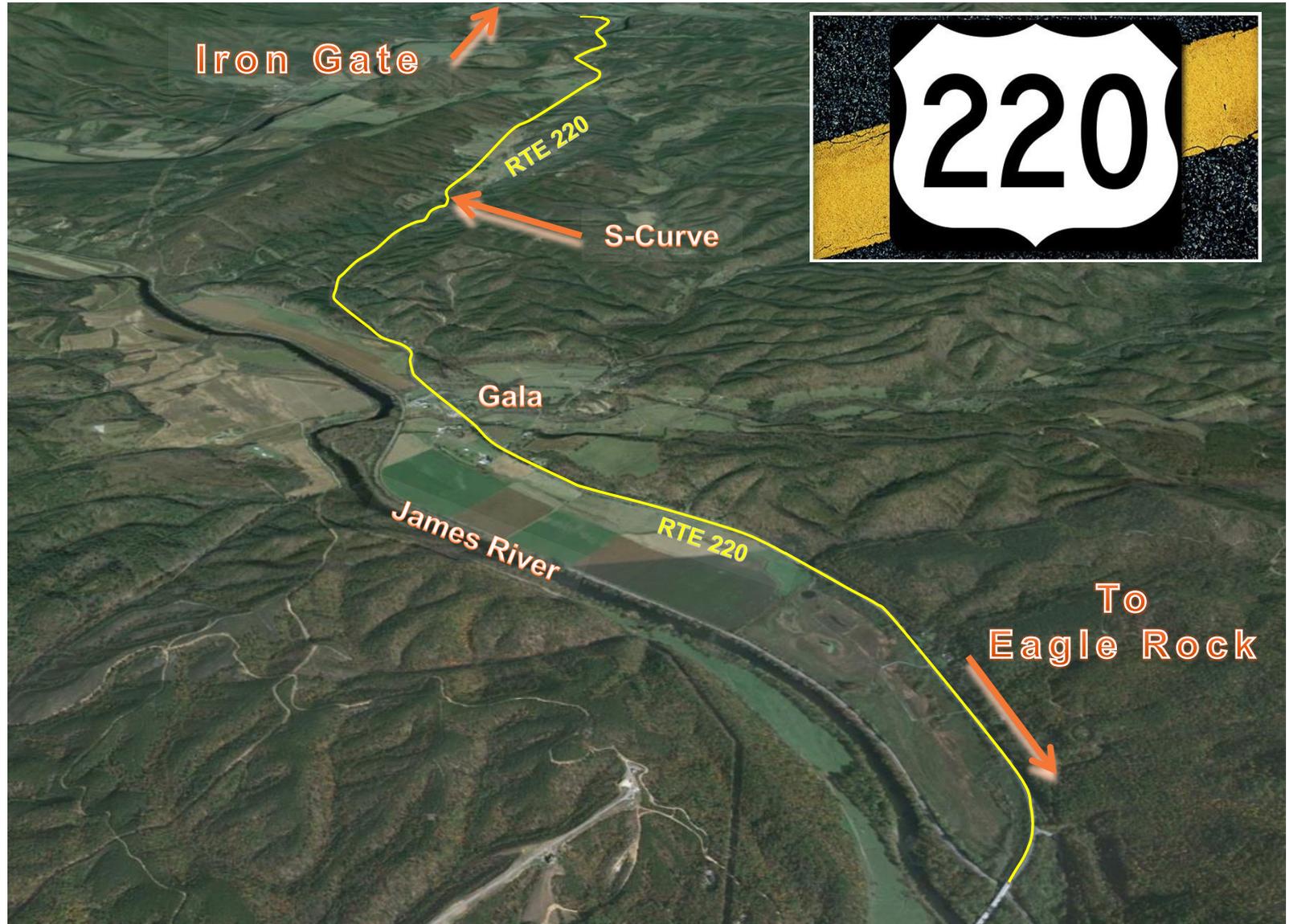
UPC: 105543

Federal Number: NH-5128(326)

February 9, 2017

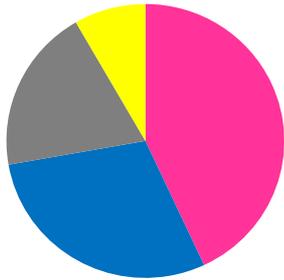
Salem District

# Route 220 Safety Improvement Project

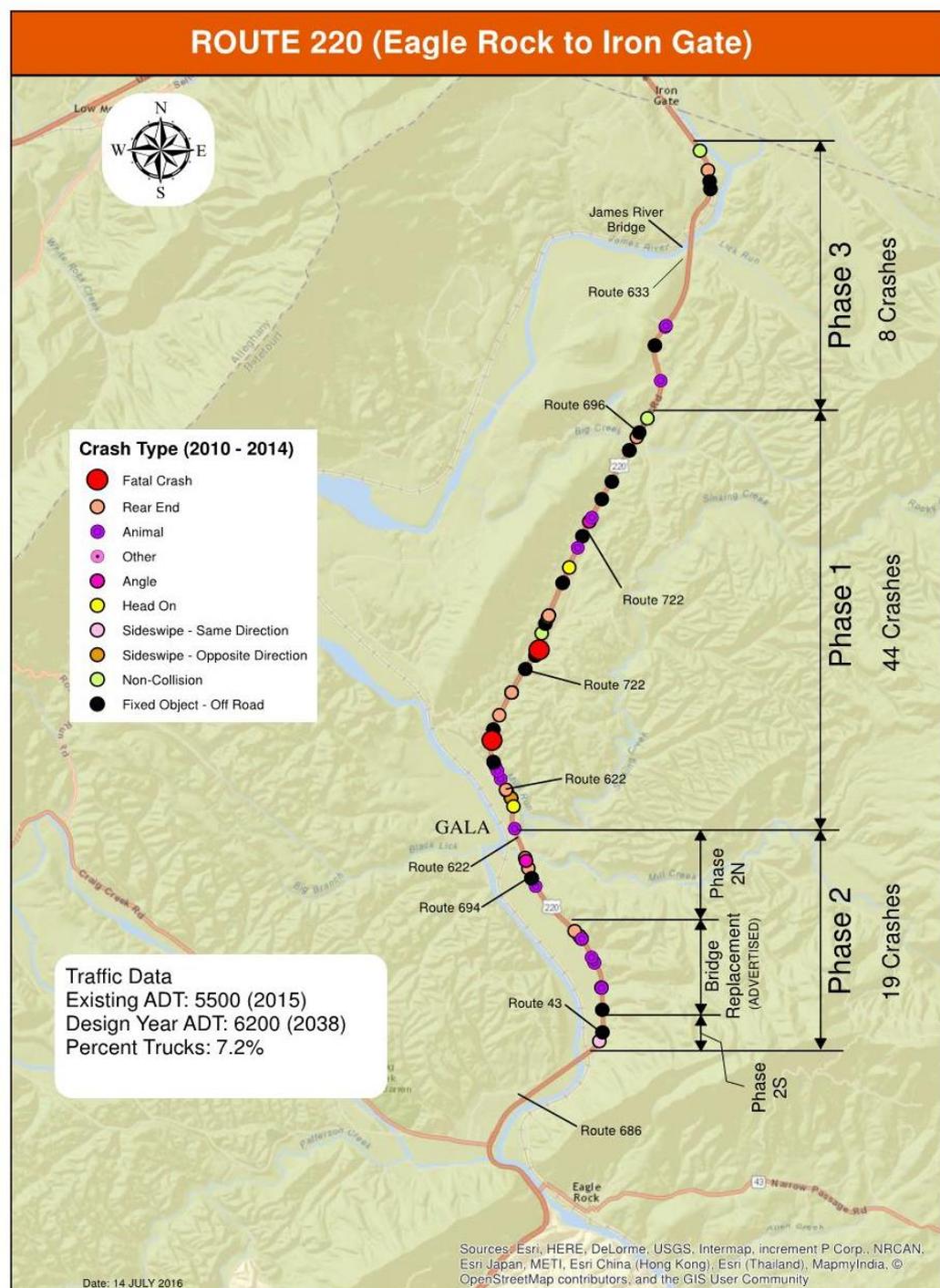


# Original Project Implementation Plan

## Crash Types



- Roadway Departure (43.0%)
- Animal Crashes (29.2%)
- Rear End (19.4%)
- Other (8.3%)

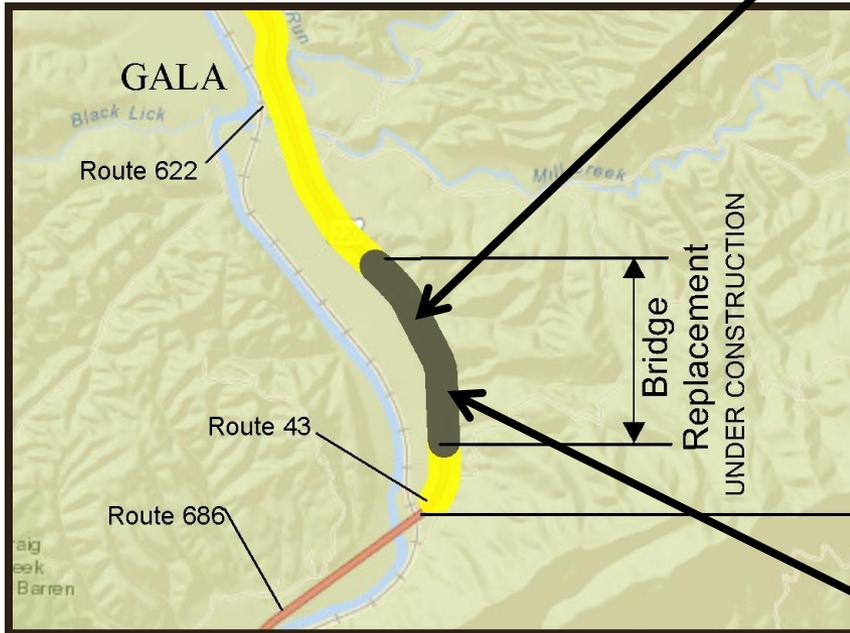


# Separate Project UPC 103210



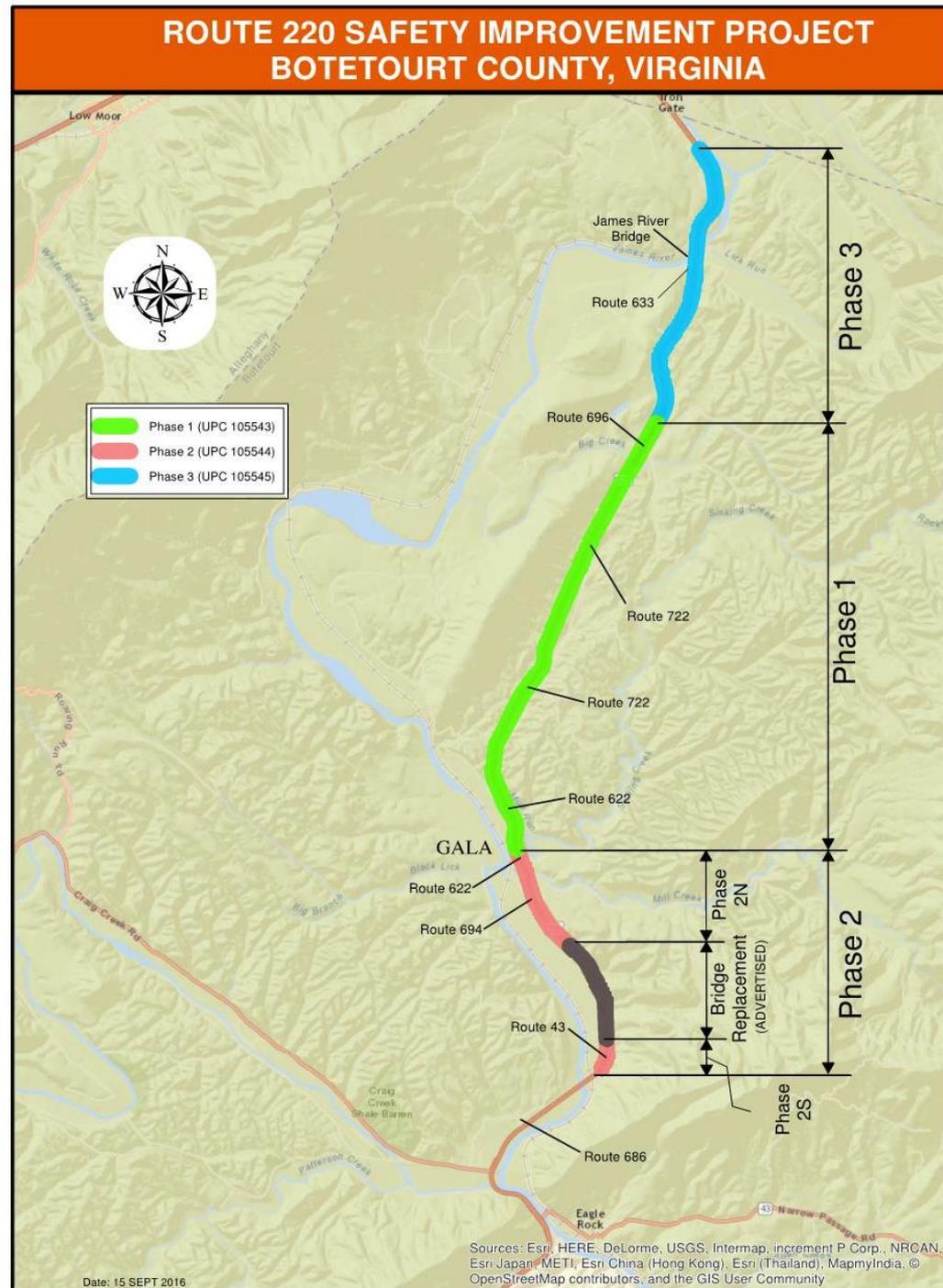
## Bridge Replacement Project

- Total Estimated Cost: \$9 Million
- Not included in the \$79 Million
- Consistent Design
- Begin Construction: Summer 2016
- End Construction: Summer 2018



# Original Project Implementation Plan

- Originally Planned to be built in three (3) phases.
- Initial Estimate: \$150M
- Available Funding: \$79 Million
- SMART Scale Applications did not yield additional funds



## Route 220 Safety Improvement Project:

### Design-Build Process

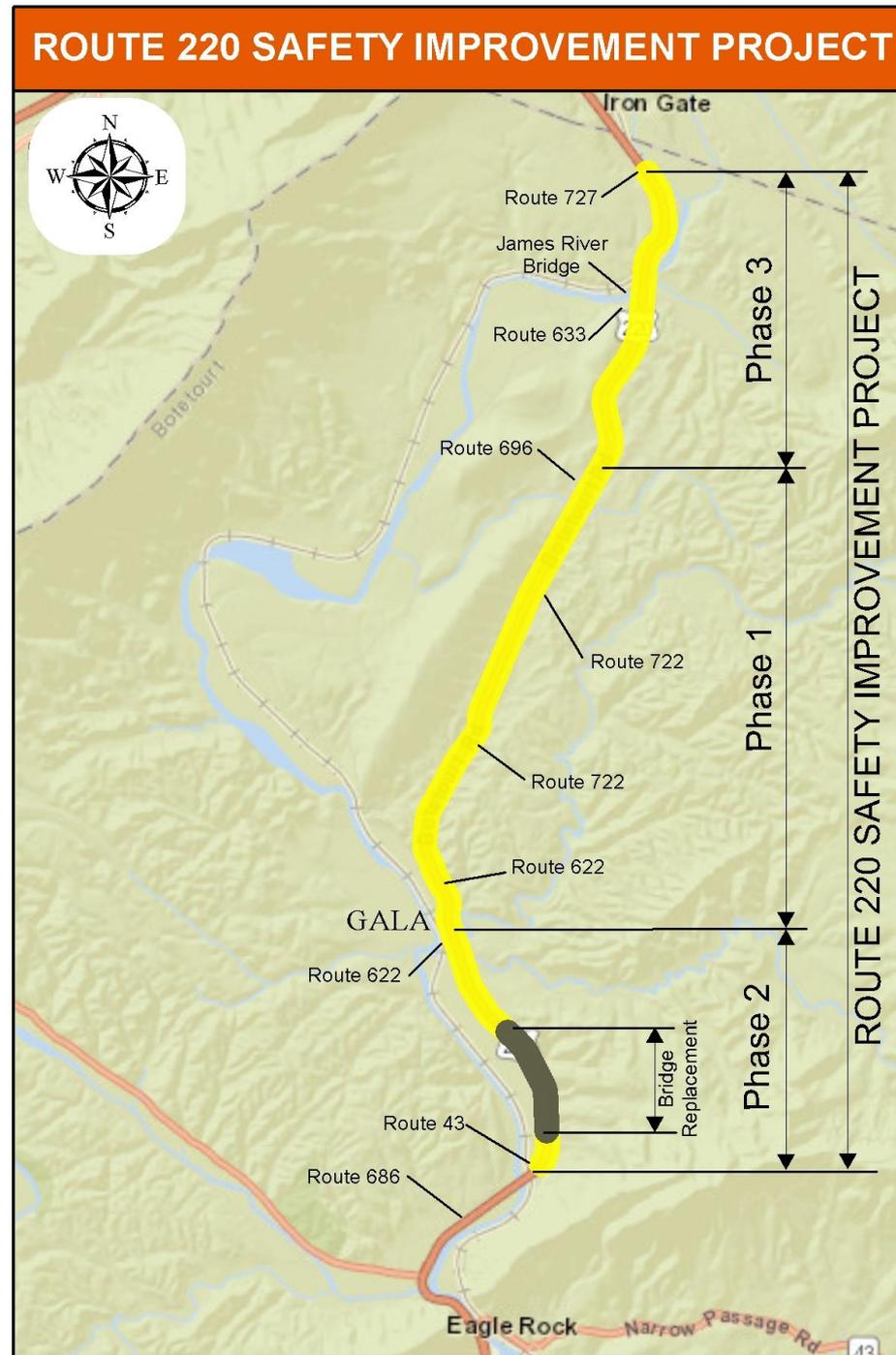
- Preliminary plans (Approximately 30%) provided to Design-Builder
- Opportunity for more innovation in design and construction techniques
- Potential to deliver more improvements within the project corridor
- Expediting design and construction to complete the project sooner



# Current Project Implementation Plan

- Available Funding: \$79 Million
- Re-focused effort to implement targeted safety improvements
  - ✓ Incorporated all 3 phases within \$79 million budget
  - ✓ Single design-build contract for all 3 Phases

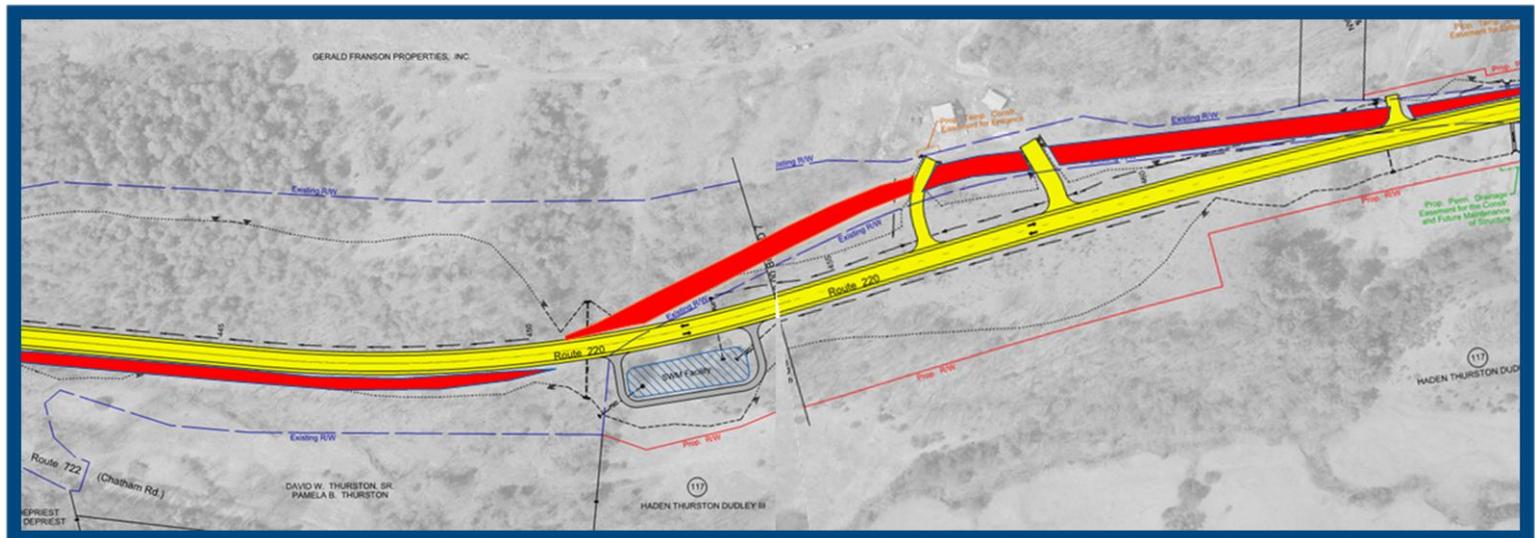
*Refined the design and alignment to maximize the safety benefits within the allotted funding for this project (Phases 1, 2, and 3).*



*(Focused \$79M on critical areas for greater overall safety benefits)*

## ➤ Design Refinements

- ✓ Refined alignment based on additional investigation to minimize earthwork and exposure to pyritic material
- ✓ Focus realignment/reconstruction efforts from Gala to Route 696 (Phase 1) - Flatter, Straighter Alignment
- ✓ Maximize use of existing pavement south of Prices Bluff Road (Phase 2) and north of Buhrman Road (Phase 3)



# Current Project Implementation Plan

*(Focused \$79M on critical areas for greater overall safety benefits)*

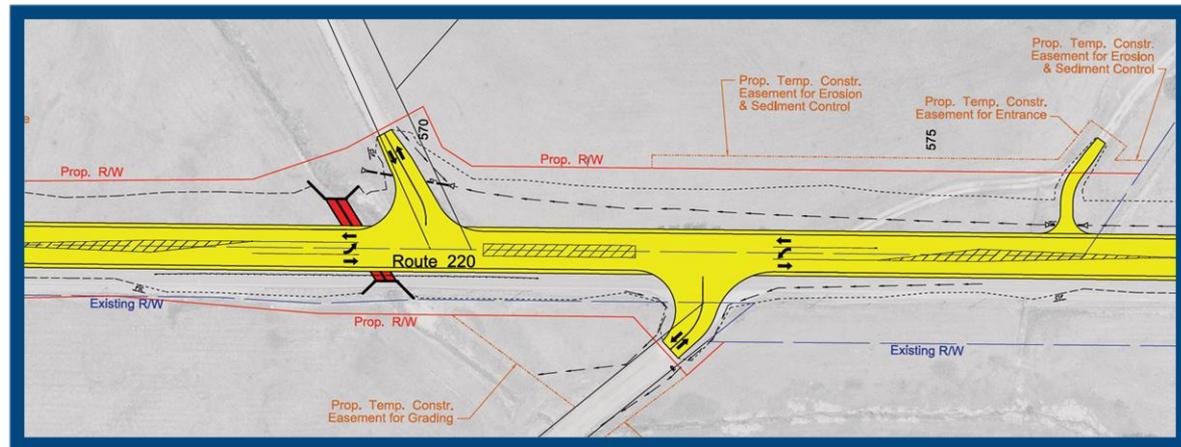
## ➤ Focused Intersection and Access Improvements

### ✓ Construct Left Turn Lanes:

- Route 43
- Route 622 (Prices Bluff Road)
- Route 696 (Locust Bottom Road)
- Route 696 (Buhrman Road)

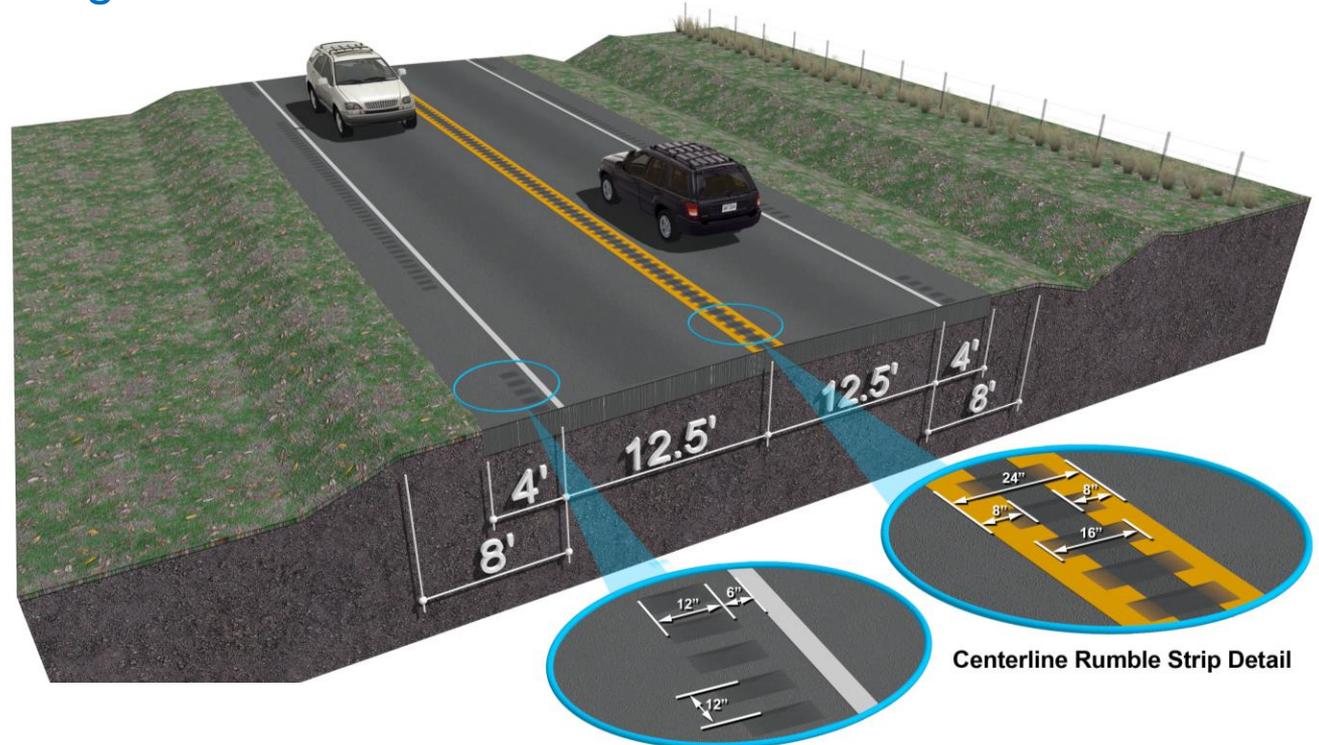
### ✓ Construct Access Management at Kelly's Market

- Remove Realignment of Route 696 Intersection
- Removed Two-way Left Turn Lane in Gala



## ➤ Typical Section

- ✓ Providing 2-ft centerline
- ✓ Providing 4-ft paved shoulders
  - Except north of the James River Bridge (Phase 3 North)
- ✓ Providing 8-ft total shoulders in most locations



Centerline Rumble Strip Detail

Intermittent Shoulder Rumble Strip Detail (Typ)

- ✓ Wider Lanes
- ✓ Paved Shoulders Throughout
- ✓ Greater Separation From Opposing Traffic

# Construction and Traffic Impacts

- In order to maximize funds, VDOT will reduce traffic to one lane at some locations at specific times during construction
- Cost saving benefits include
  - Reduced right of way acquisition
  - Reduced duration of construction work
  - Less earthwork
  - Less disturbance of pyritic material
  - Less impact on the environment
- One Lane Traffic Control may be managed by
  - Flaggers
  - Pilot vehicles
  - Temporary Signals

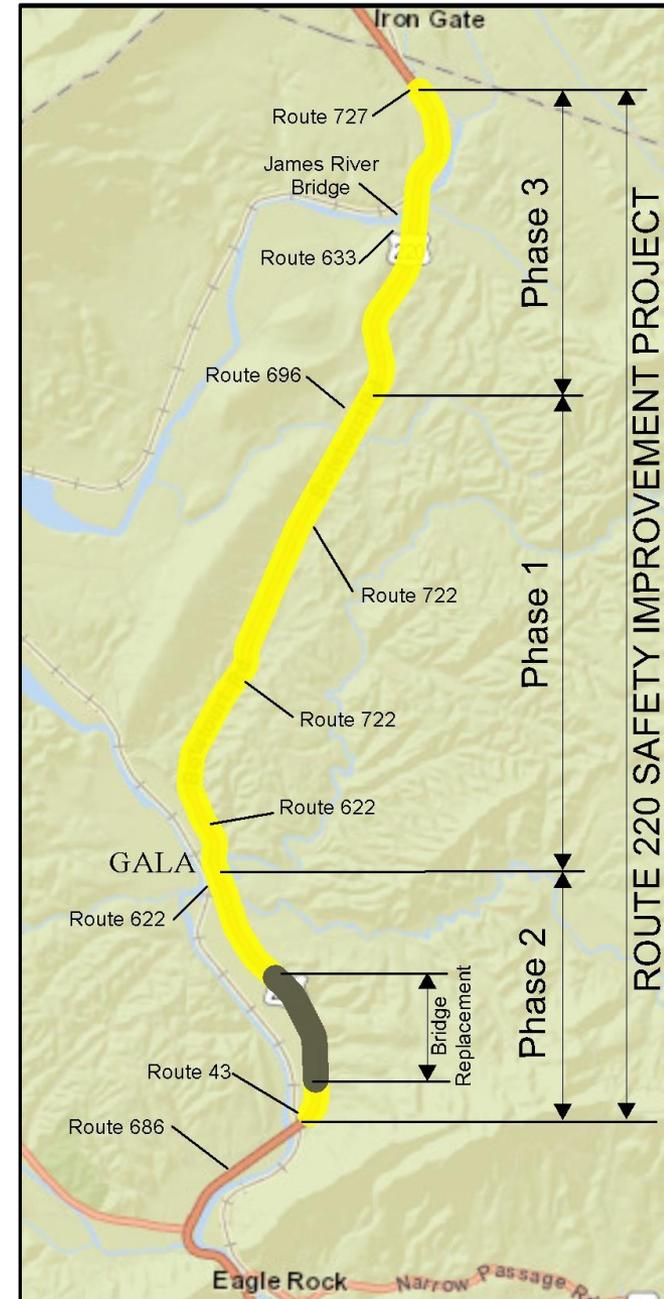
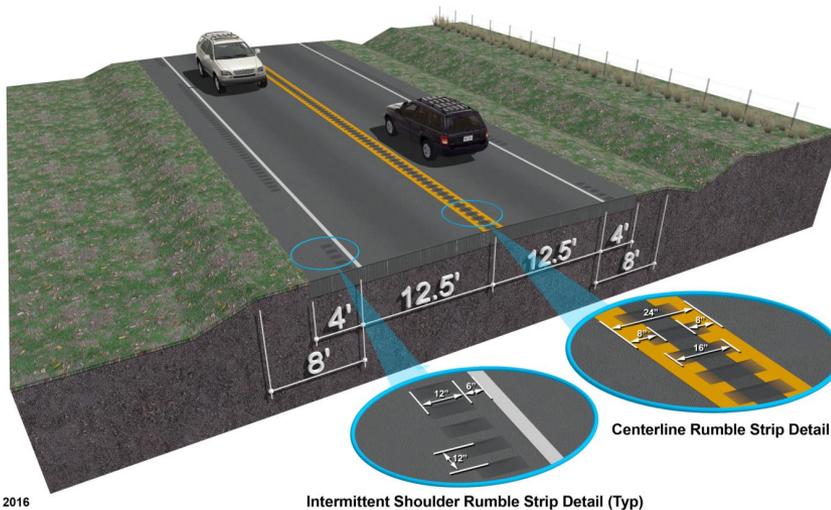


Managing one lane of traffic allows more funds for more roadway improvements on this section of Route 220.

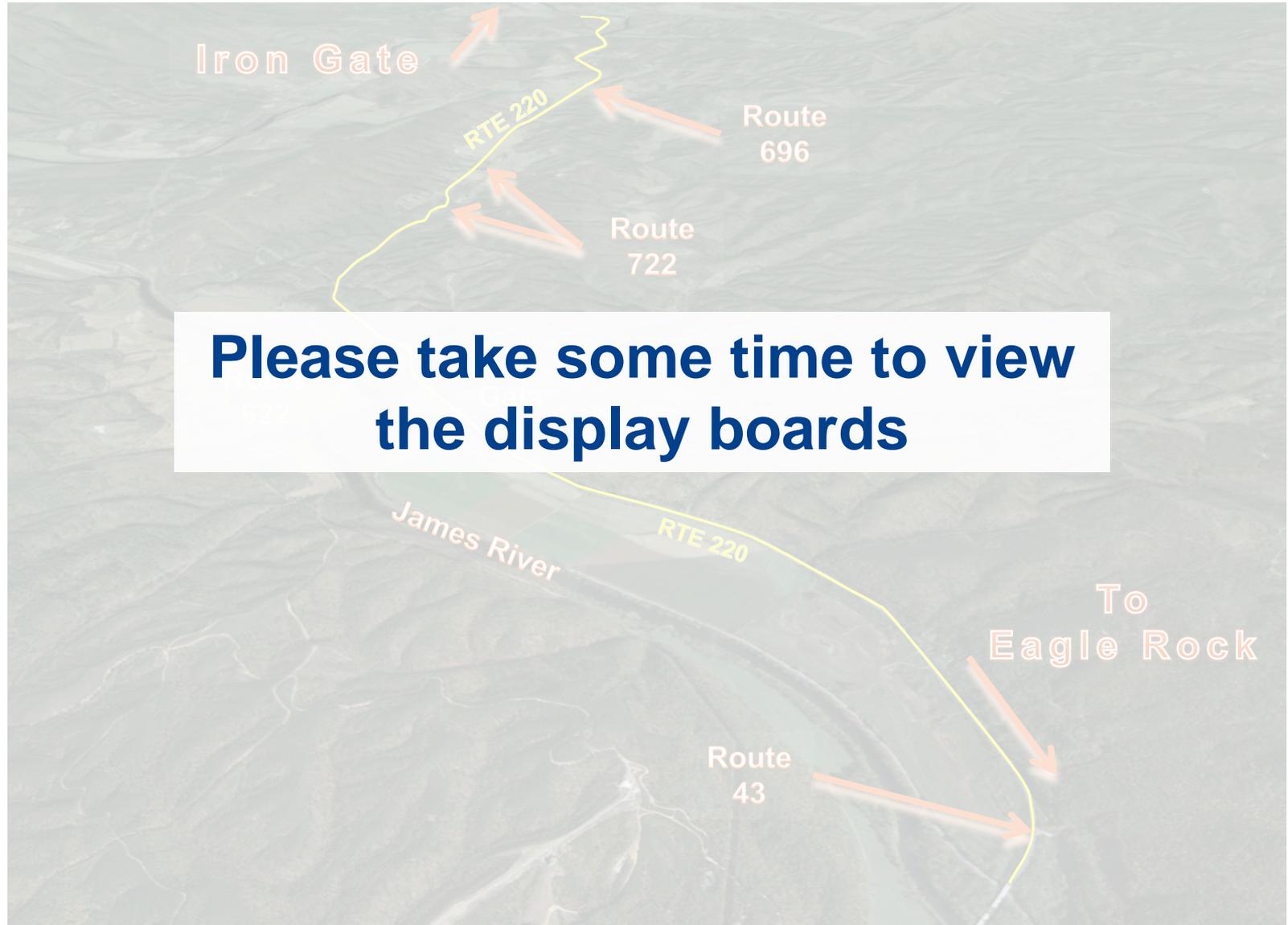
# Current Project Implementation Plan

## Schedule

- Design-build Procurement is underway
- Award Contract to Design-builder: Spring 2017
- Begin Construction: Fall 2017/Spring 2018
- Construction Complete: August 2021



# Route 220 Safety Improvement Project Phases 1, 2, and 3



**Please take some time to view  
the display boards**