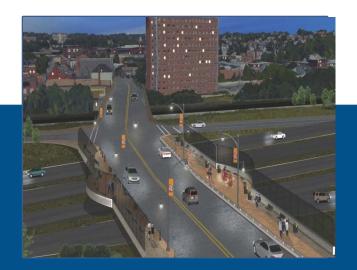


Design Builds and the Reconstruction of the Route 6 & Route 10 Interchange

ACEC/MA & ACEC/RI Breakfast on Design-Build and P3, July 23, 2019





Lori A. Fisette, MBA, Manager of Project Management James D. McGinn, P.E., Project Manager II





• 51st in the Nation

Rhodeworks

• 10 year plan





- 13 current contracts (4 non interstate)
- 1 RFQ
- Innovative ways to lessen procurement and design
- 2 Strategies:
- On Call Task Order Program
- Design Build



Benefits:



- Shifted responsibility of design to consultant
- Improved cost estimating
- Innovative design solutions
- Minimizes long term disruption of roadways
- DB partnership between contractor and designer
 - Acceleration of project time frame



• Challenges:



- Teams still working to design entire project before starting construction
- Took time for DB teams to gel



- Expectations:
 - Owner
 - Prepare RFP
 - Technical guidance
 - Final inspection/close out process
 - RFIs
 - DB Team
 - Project Design
 - Shop drawings
 - RFIs





The Reconstruction of the Route 6 & 10 Interchange

- Originally constructed in the 1950s
- Links three major commuter roadways
- Carries 100,000 vehicles daily
- Nine bridges, seven are structurally deficient
- Largest single contract in RIDOT history \$247 Million

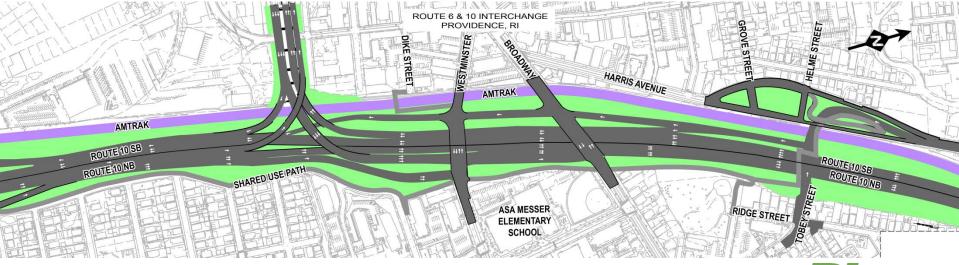




Key Elements of the Project

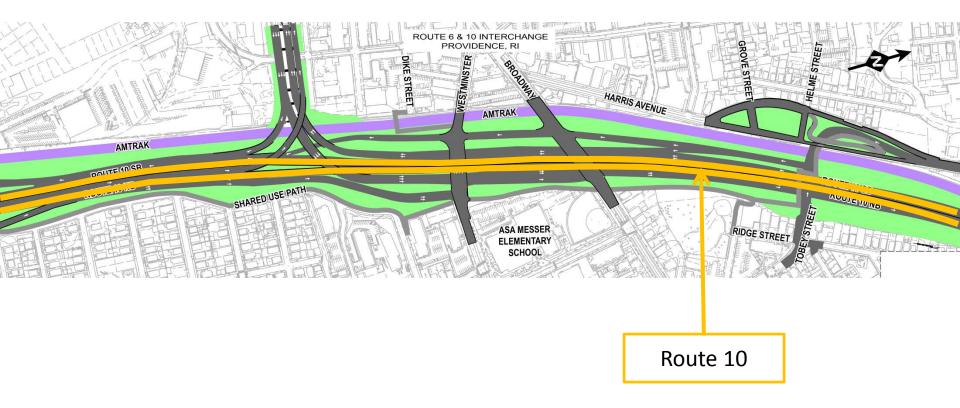
- Route 10 roadway reconstruction, realignment and safety upgrades
- Replacement of the main interchange bridges
- Construction of a Route 10N to Route 6W flyover ramp

- Replacement of Westminster and Broadway bridges
- Replacement of Tobey Street and Harris
 Avenue bridges
- Dedicated Service Road to Route 10S
- Construction of multi-use paths



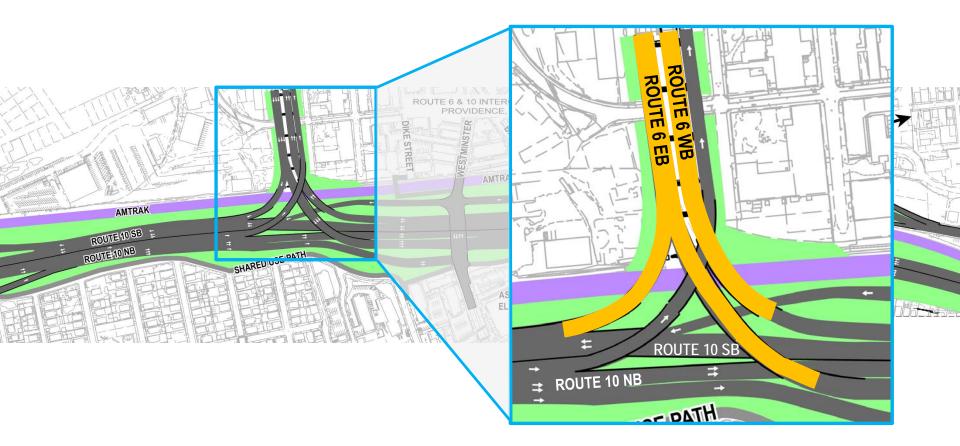


Route 10 roadway reconstruction, realignment and safety upgrades





Replacement of the 6/10 interchange bridges



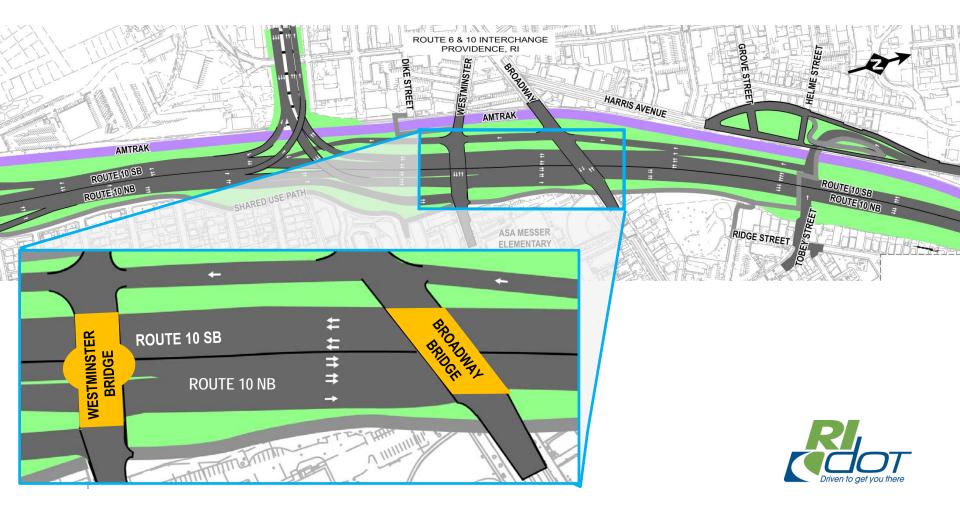


Construction of a Route 10N to Route 6W flyover ramp

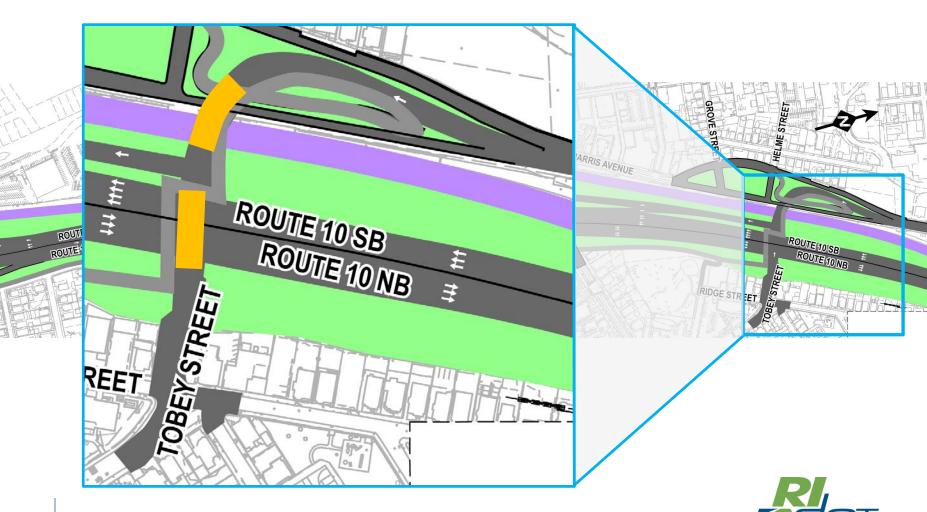




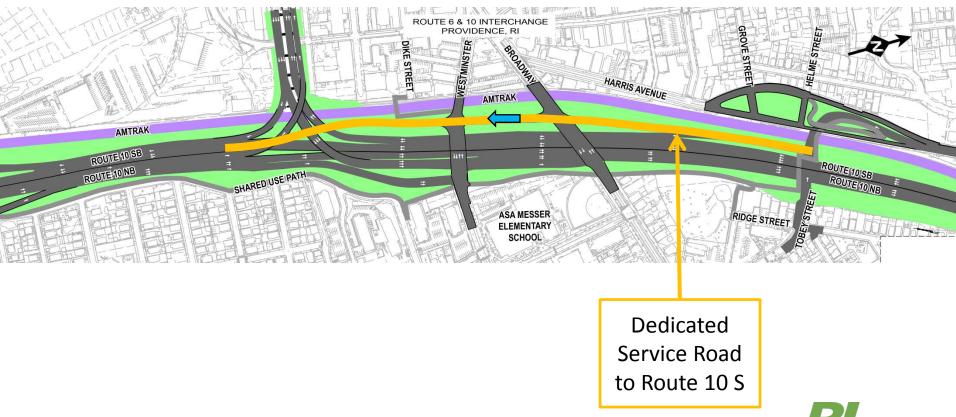
Replacement of Westminster and Broadway bridges



Replacement of Tobey Street and Harris Avenue bridges

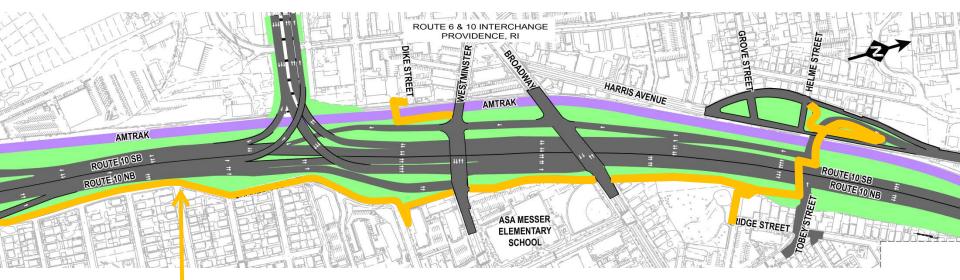


Dedicated Service Road to Route 10S





Construction of multi-use paths

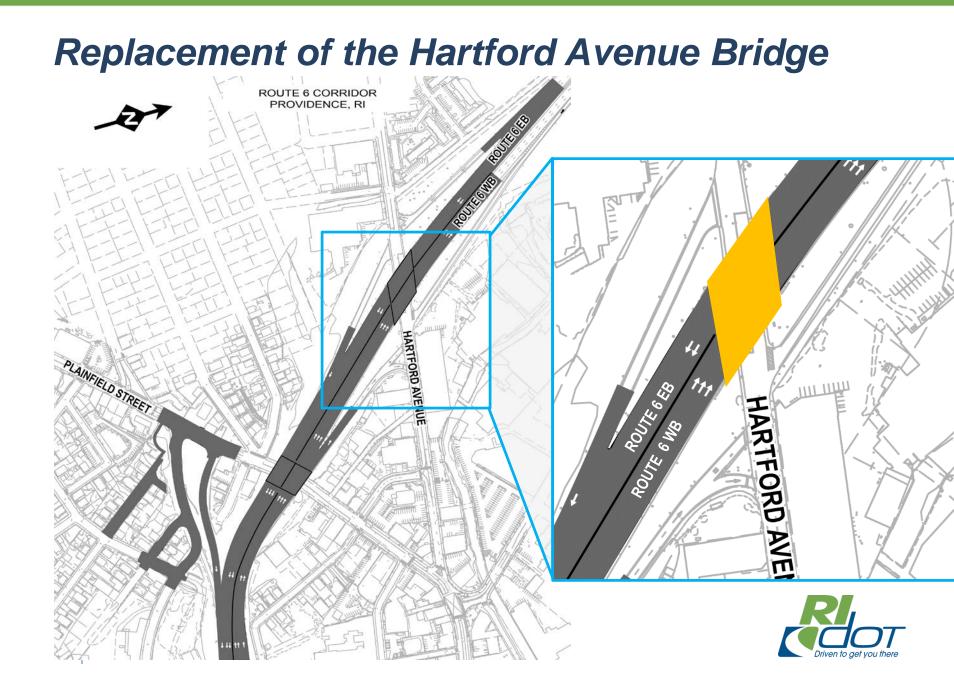


Multi-Use Path



Construction of a Ramp from Plainfield to Route 6E and Replacement of Plainfield Bridge

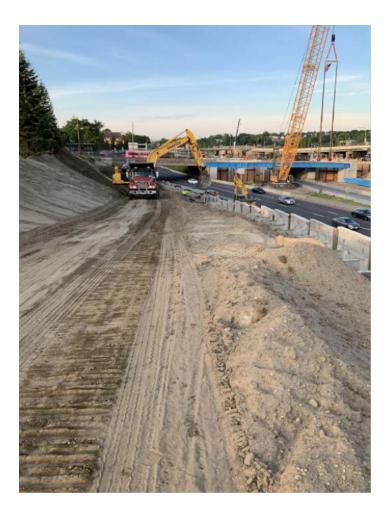




6/10 Project Constraints

Utilities

- National Grid Gas
- National Grid Electric
- Verizon
- AT&T
- Providence Fire
- Providence Water
- Providence Sewer
- Narragansett Bay Commission
- AMTRAK
- Environmental





Why Design-Build?

- RIDOT Staffing
 - Lump Sum requires fewer RIDOT Construction personnel
 - Bid Items do not need to be tracked
- Shop Drawings
 - Contractor's engineer reviews and approves
- Shifted AMTRAK & Utility Coordination to DB Team
- Schedule
 - Allows construction to begin sooner while design is still ongoing
 - Greater flexibility to the DB team to sequence the work



6/10 Schedule Milestones

ACTIVITY	DATE
Award Design-Build Contract	December 21, 2017
NEPA Approval	March 30, 2018
Begin Final Design	April 1, 2018
Begin Construction	July, 2018
Design Completed	Fall 2019
Construction Completed	Fall 2023

