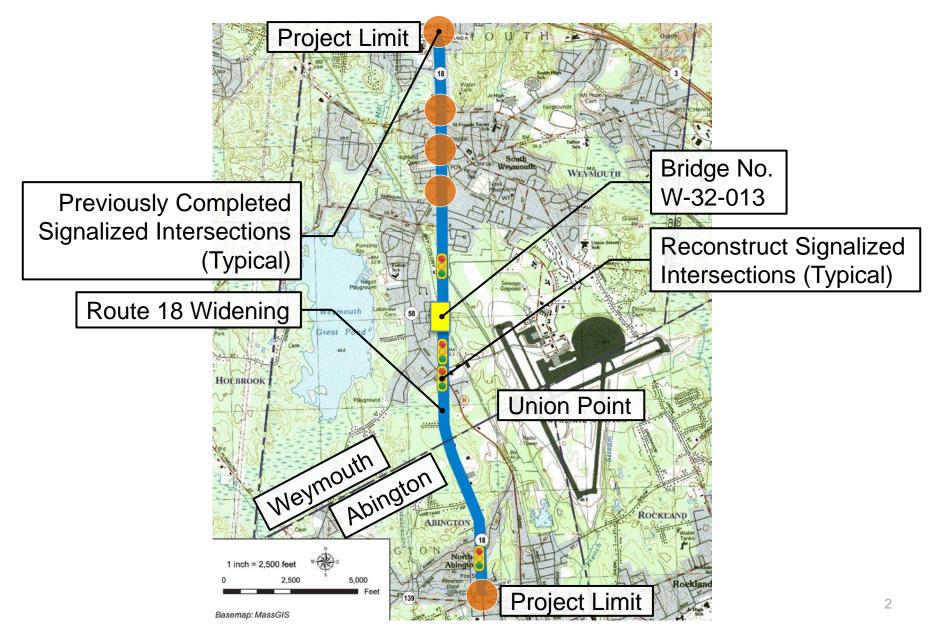


Weymouth - Abington Route 18 Widening and Reconstruction Project File No. 601630



PROJECT LOCATION





EXISTING CONDITIONS



- One travel lane in each direction
- Intermittent sidewalks
- Limited bike accommodations
- High accident rate
- ADT 39,730 vehicles per day
- 5 intersections previously completed



PROJECT PURPOSE

- Relieve Traffic Congestion
- Improve Pedestrian and Bicycle Accommodation
- Reduce Cut-Through Traffic on Local Streets
- Improve Intersection Safety
- Replace Functionally Obsolete Bridge Over MBTA Commuter Rail
- Support Economic Development

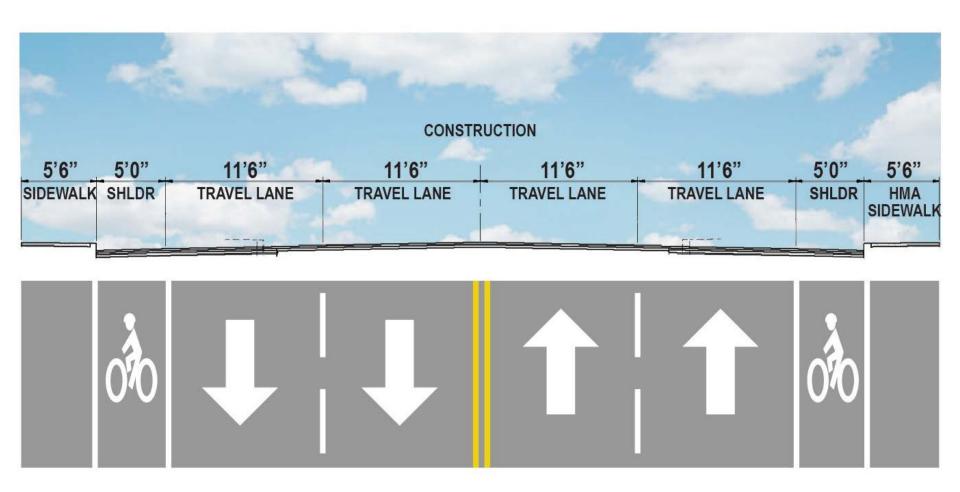


PROJECT SCOPE

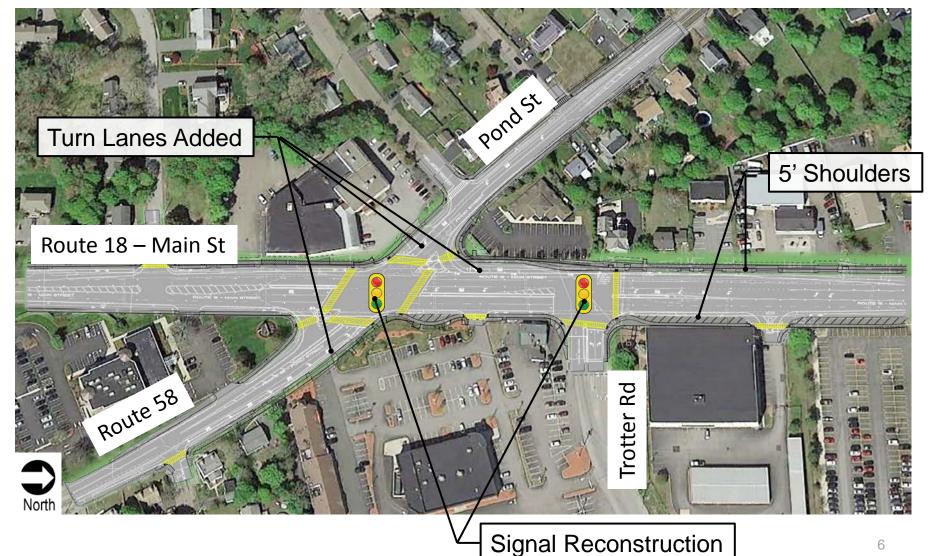
- Provide additional travel lane in each direction
- Reconstruct 4 existing signalized intersections
- Perform minor improvements to 5 recently reconstructed signalized intersections
- Provide continuous 5.5 foot sidewalk along both sides of roadway
- Provide continuous 5 foot bicycle lane along both sides of roadway
- Replace Functionally Obsolete bridge carrying Route 18 over Commuter Rail

TYPICAL SECTION





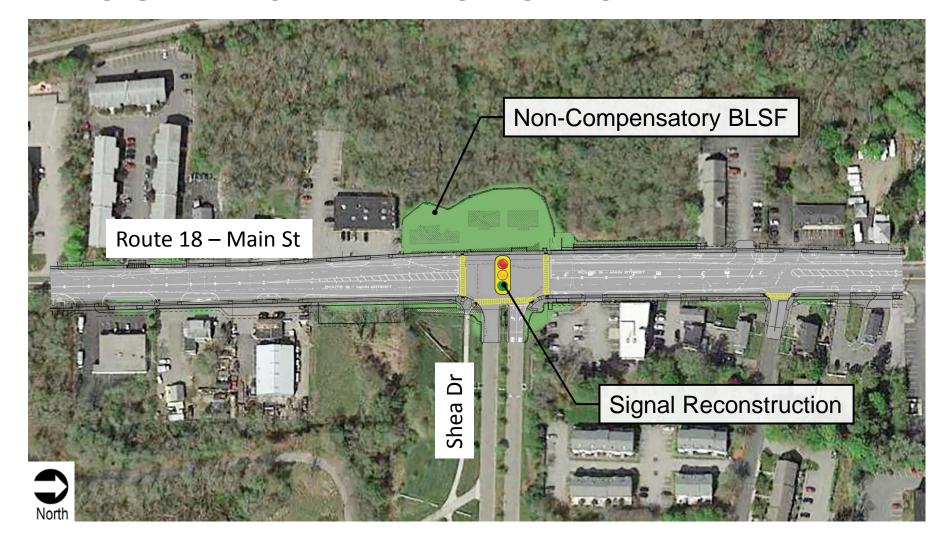
POND STREET / **ROUTE 58 INTERSECTION**



Massachusetts Department of Transportation Highway Division

SHEA DRIVE / ROUTE 18 INTERSECTION





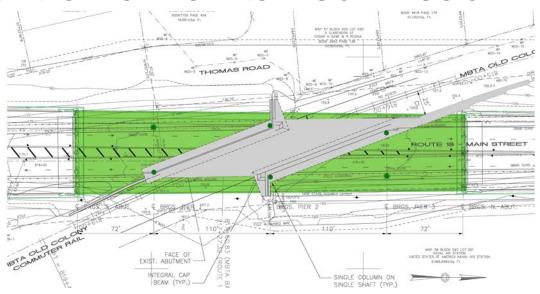


Accelerated Bridge Construction (ABC)

- Lateral Bridge Slide
- Permanent Superstructure constructed adjacent to existing bridge

One lane of traffic maintained in each

direction except for three weekend closures



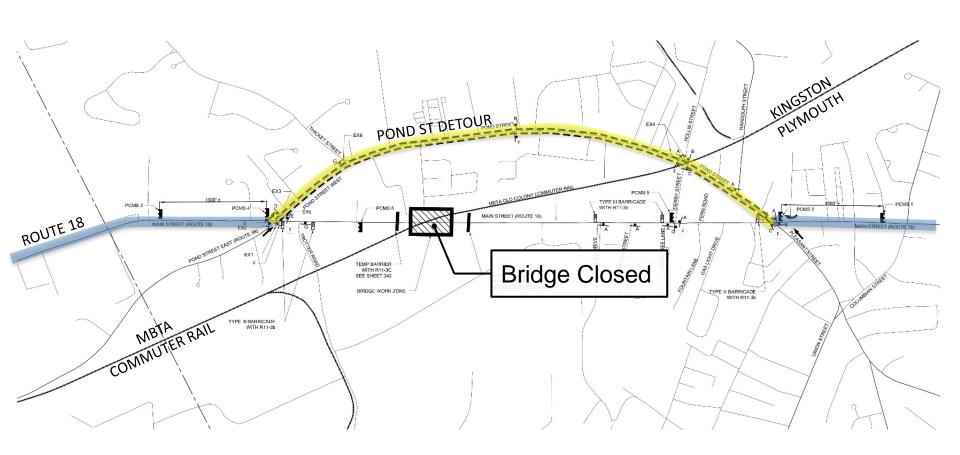


Accelerated Bridge Construction (ABC)

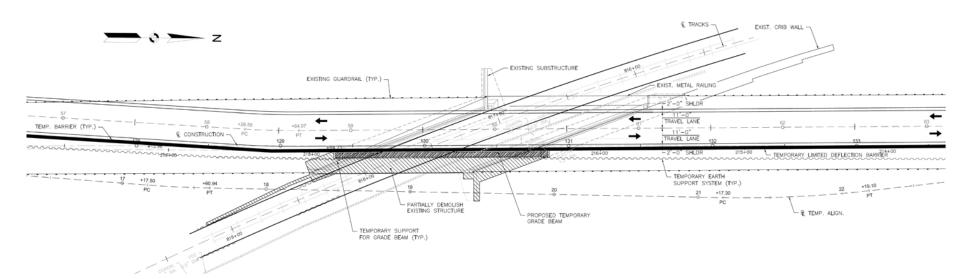
- Three Weekend Closures
 - Roadway traffic is detoured onto Pond Street
 - Commuter Rail Service Suspended and Bussing provided.
 - Weekend Closure 1 and 2 are from Friday evening to 4:00 AM Monday.
 - Weekend Closure 3 is from Thursday evening to 4:00 AM Monday.



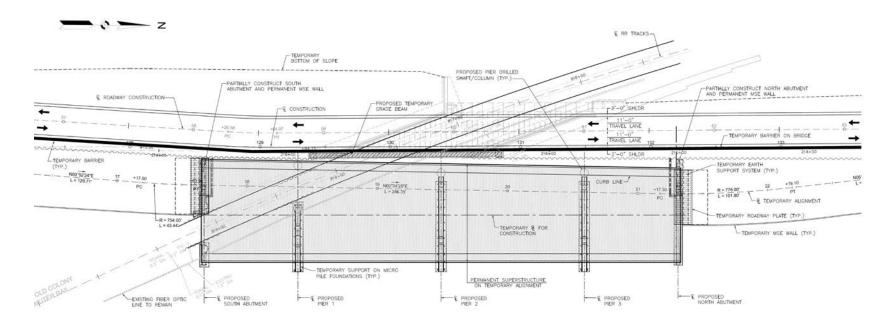
ROUTE 18 DETOUR DURING THREE WEEKEND CLOSURES



- Installation of Grade Beam and Partial Demolition of Existing Structure During First Weekend Closure
- Traffic Channeled to West Side of Existing Structure

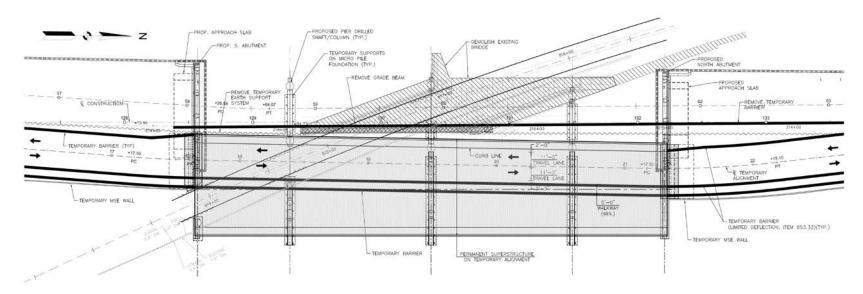


- Temporary and Parts of Permanent Substructure Constructed
- Permanent Superstructure Constructed

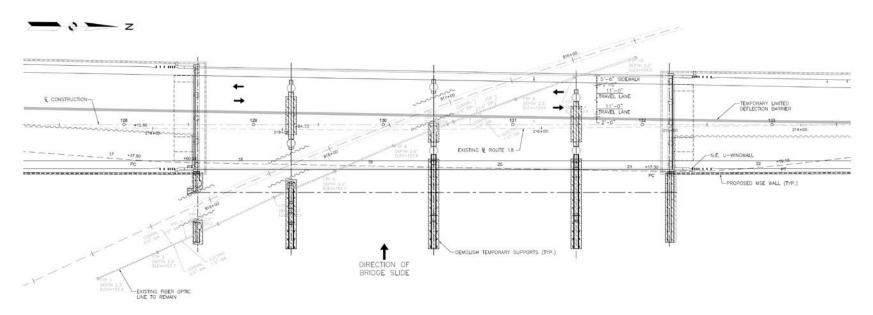


Highway Division

- Traffic Diverted to Permanent Superstructure on Temporary Alignment
- Existing Bridge is Removed and Remainder of Permanent Substructure is Constructed
- Test Slide is Performed During Second Weekend Closure



- Permanent Superstructure is moved to Final Location During Third Weekend Closure
- Temporary Supports are Demolished and the Area is Restored





Incentive/Disincentive (Weekend Closures)

- Incentive Payment Schedule
 - \$450,000 for achieving the Milestone prior to 12:00 AM
 - \$337,500 for achieving the Milestone between 12:00 AM and 1:00 AM
 - \$225,000 for achieving the Milestone between 1:00 AM and 2:00 AM
 - \$112,500 for achieving the Milestone between 2:00 AM and 3:00 AM
- Maximum contract Incentive \$1,350,000.



Incentive/Disincentive

- Disincentive
 - Failure to achieve milestone conditions by 4:00 AM results in a \$450,000 per day assessment.
 - For every subsequent day or partial day the contractor is assessed \$450,000 per day
 - No limit on Disincentive.





- Town of Weymouth
- Town of Abington
- Southfield Redevelopment Authority (former South Weymouth Naval Air Station)
- MBTA
- Abington Business Coalition



Project Costs

Office Estimate: \$64,516,978.37

Low Bid: \$56,746,003.00

Low Bidder: Gioioso-D&R Joint Venture

12.04% Below Estimate

Other Bids:

McCourt Construction Co. Inc. \$57,225,847.13

Barletta Heavy Division Inc. \$57,488,000.00

• ET&LCorp. \$59,140,461.00

• J F White Contracting Co. \$60,557,798.00

Project Costs



- This project is included in the SFY 2018 to SFY 2022 Capital Investment Plan in the amount of \$82,865,479.
- Estimated Total Construction Cost:

| Bid Amount | \$ | 56,746,003.00 |
|---------------------|-----------|---------------|
| Contingencies | \$ | 5,666,091.80 |
| Traffic Police | \$ | 3,950,000.00 |
| Utility Relocations | \$ | 5,760,958.00 |
| Railroad Flaggers | \$ | 800,000.00 |
| Bussing | \$ | 200,000.00 |
| Incentive Payments | <u>\$</u> | 1,350,000.00 |
| | Total\$ | 74,473,052.80 |

• The Construction Duration is 1,614 Calendar Days from Notice to Proceed (4.4 Years).



Contractor Performance

- Prior to the bid opening, Gioioso-D&R Joint Venture was prequalified to submit a bid for this project.
- A review of the Contractor Evaluation scores for Gioioso on file with the Highway Division reflects an average score of 87.3.
- A review of the Contractor Evaluation scores for D&R on file with the Highway Division reflects an average score of 90.8.



DISADVANTAGE BUSINESS ENTERPRISE GOAL IS 10%

- Island Pavement Cutting Inc. will furnish and apply membrane waterproofing in the amount of \$168,480.00
- EDM Construction Inc. will furnish and install structural steel in the amount of \$2,680,000.00
- Don Martin Corp. will perform paving operations in the amount of \$881,600.00
- Tango Construction Inc. will provide the schedule of operations and install portions of drainage structures in the amount of \$850,000.00
- H&H Steel, LLC will furnish and install reinforcing steel in the amount of \$950,000.00
- Thomas Barriers, Inc. will furnish and install temporary barriers in the amount of \$156,000.00
- The aggregate value of this work is \$5,687,630.00 which represents 10.02% of the bid amount of \$56,746,003.00.