





Locus Map

Existing Traffic Features:

Springfield Street (west of Walnut St):

- -(1) sidewalk
- -(1) travel lane each direction, left turn only lane (from eastbound) onto Walnut

Springfield Street (b/w Walnut St & Suffield St):

- -(1) sidewalk
- -(1) eastbound travel lane and (1) left turn lane onto Memorial
- -(1) westbound travel lane and (1) right turn onto Walnut &
 - (1) left turn onto Walnut Ext

Walnut Street/Walnut Street Extension:

- -(1) sidewalk
- -(1) northbound travel lane and (1) left turn lane onto Springfield
- -(1) southbound travel lane and (1) left turn lane onto Springfield

Suffield Street:

- -(2) sidewalks
- -(1) travel lane each direction, left turn lane onto Springfield

Main Street:

- -(1) sidewalks
- -(1) travel lane each direction, (1) left turn lane onto

Suffield & (1) right turn lane onto

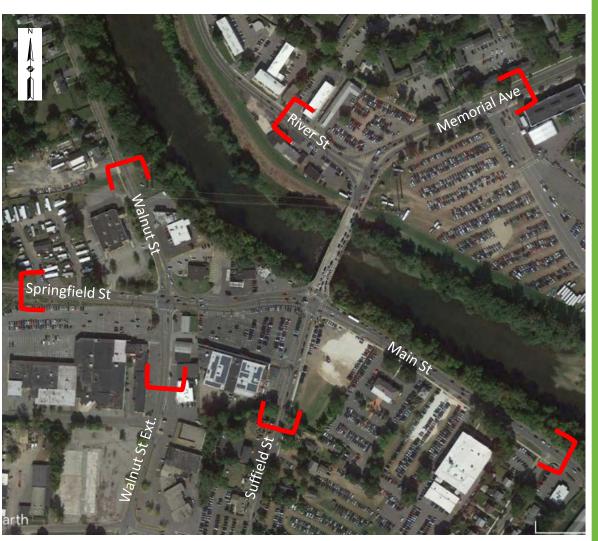
Memorial

<u>Memorial Avenue:</u>

- -(2) sidewalks
- -(2) travel lanes each direction, (1) right turn lane (from westbound) onto Springfield

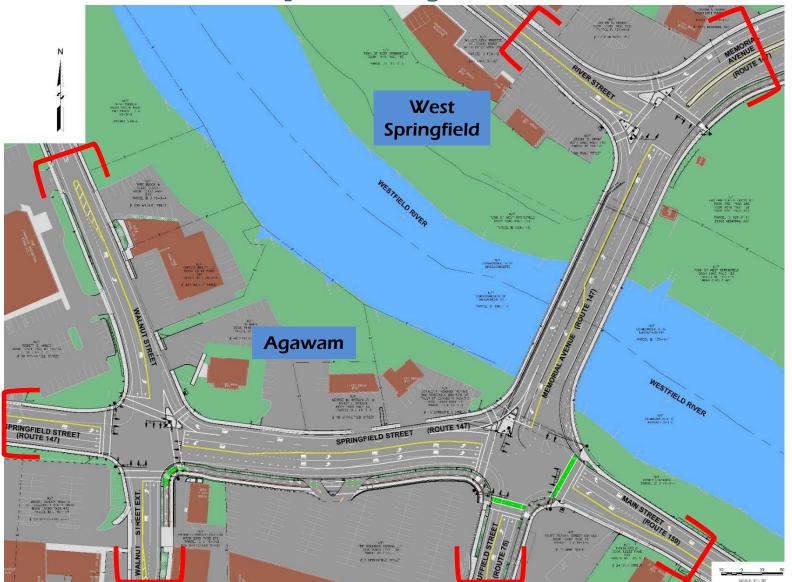
River Street:

- -(1) sidewalk
- -(1) travel lane each direction



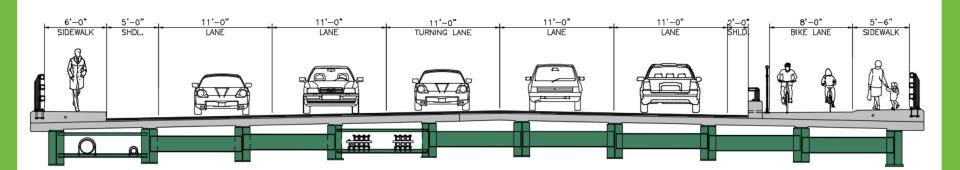


Proposed Project Plan





Proposed Cross Section



Bridge Cross Section



Proposed Improvements

Complete Streets Improvements

- Separated 2-Way Bike Lanes & Sidewalk throughout most of the project
- Separated 2-Way Bike Lane & Sidewalk extend to the Doering Middle School
- Separated 2-Way Bike Lane & Sidewalk extend across the Bridge to the Big E
- 2 Designated Bike Crossings provided at the Route 147/75/159 Intersection
- New Sidewalks added in several locations where currently non-existing

Traffic Signal, Roadway & Safety Improvements

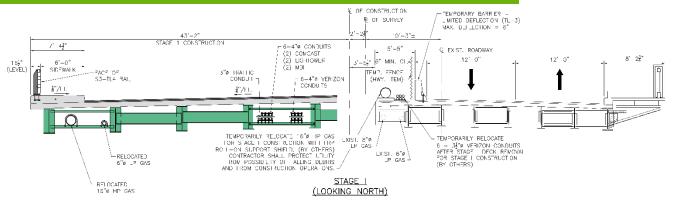
- Three (3) Traffic Control Signal Intersections to be Widened & Reconstructed
- **❖** New Traffic Signal Interconnection System to Synchronize all 3 Intersections
- Box Widening Throughout Project Limits Providing Added Turn-Lanes at Signals
- Drainage System Modifications with Deep Sump Catch Basins for Water Quality

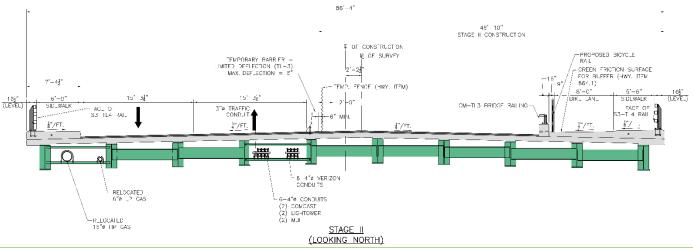
Bridge Improvements

- Replaces Existing Structurally Deficient Bridge
- * Adds Turning Lane at Intersections on Both Ends of Bridge
- ❖ Adds Separated (and crash protected) 2-Way Bike Lane on East Side of Bridge
- * Adds vehicle storage on both sides of the bridge to ease traffic congestion



Construction Staging

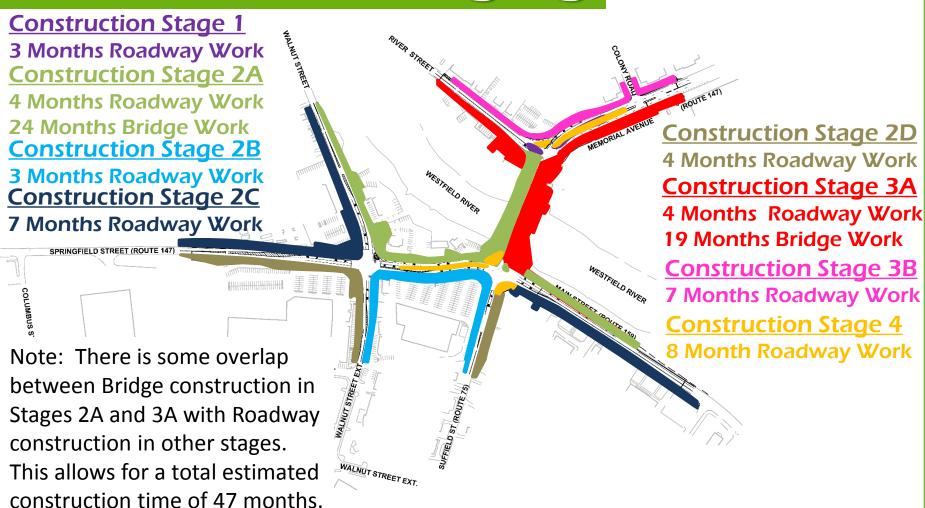




Bridge Construction Staging



Construction Staging





Bid/Estimate Comparison

Bids Opened on 5/22/2018

| Engineering/Contract or | Estimate/Bid | Difference from Estimate (%) |
|----------------------------|--------------|------------------------------------|
| Office Estimate | \$28,620,405 | - |
| Northern Construction | \$21,475,105 | -25.0% |
| ET&L | \$23,642,102 | -17.4% |
| Mohawk | \$27,229,472 | -4.9% |
| J F White Contracting Co. | \$27,347,349 | -4.4% |
| Average Bid | \$24,923,507 | -12.9% |



Project Value

Contract was awarded to Northern Construction, the low bidder.

CIP Amount = \$30.9 million

Project Amount = \$25.6 million

NOTE: Amounts include bid price, contingencies, traffic police, trainees, etc. and escalated to mid-point of construction.





MassDOT Board
Capital Programs Committee
6/5/2018