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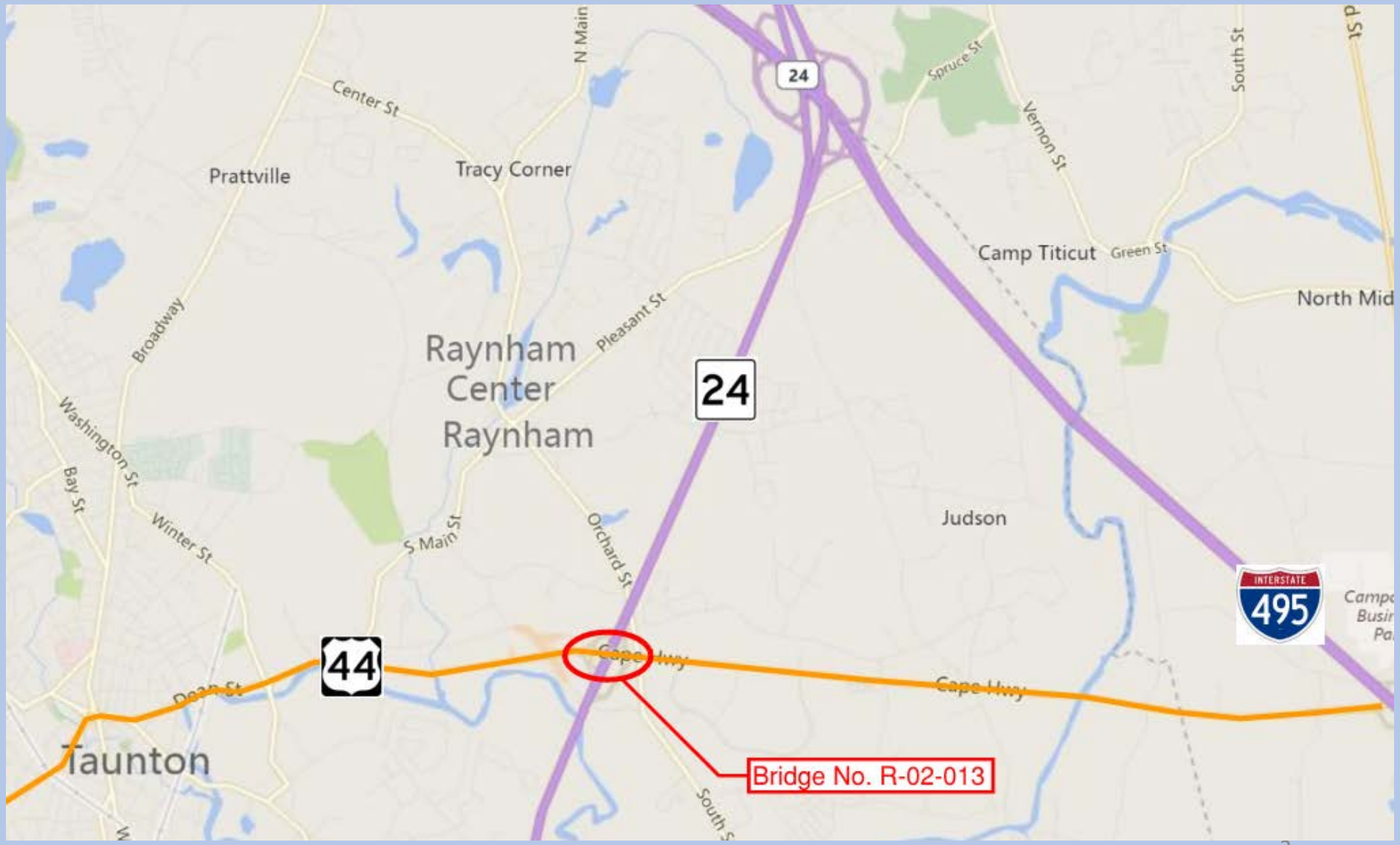
Massachusetts Department of Transportation
Highway Division

BRIDGE REPLACEMENT
U.S. ROUTE 44
OVER
STATE ROUTE 24
RAYNHAM
BRIDGE NO. R-02-013

FEBRUARY 6, 2018

Project Locus



Existing Conditions

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Existing Conditions

- Structurally Deficient Bridge
- Inadequate Distance between Ramps on SR 24 SB
- Incomplete and Substandard Sidewalks
- No Bicycle Accommodations

Scope of Work

- Replace Bridge No. R-02-013
- Remove Existing SR 24 SB to US 44 EB Ramp
- Construct New SR 24 SB to US 44 EB Ramp
- Construct New Traffic Signal & Interconnect
- Reconstruct US 44, South Street West to Orchard Street
- Provide Pedestrian and Bicycle Accommodations on US 44 thru Project Limits
- Relocate Utilities

Project Limits

Accelerated Construction

- Slide-In Bridge Construction
- Bridge constructed in 2 Stages vs. 3

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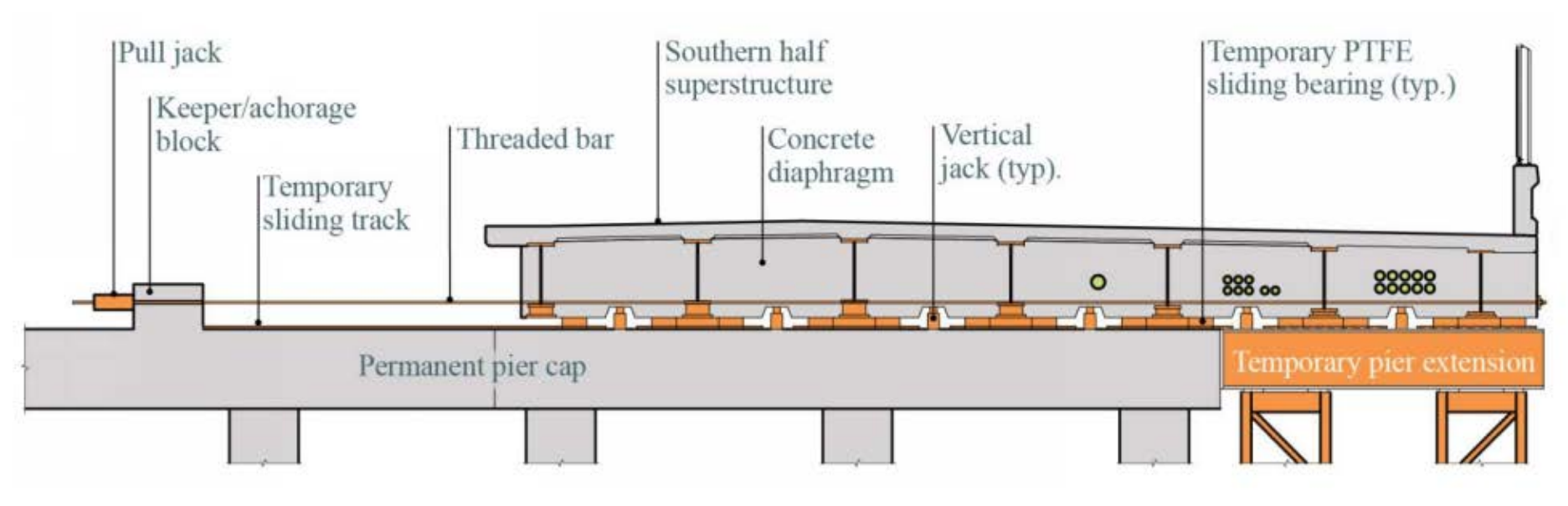

Accelerated Construction

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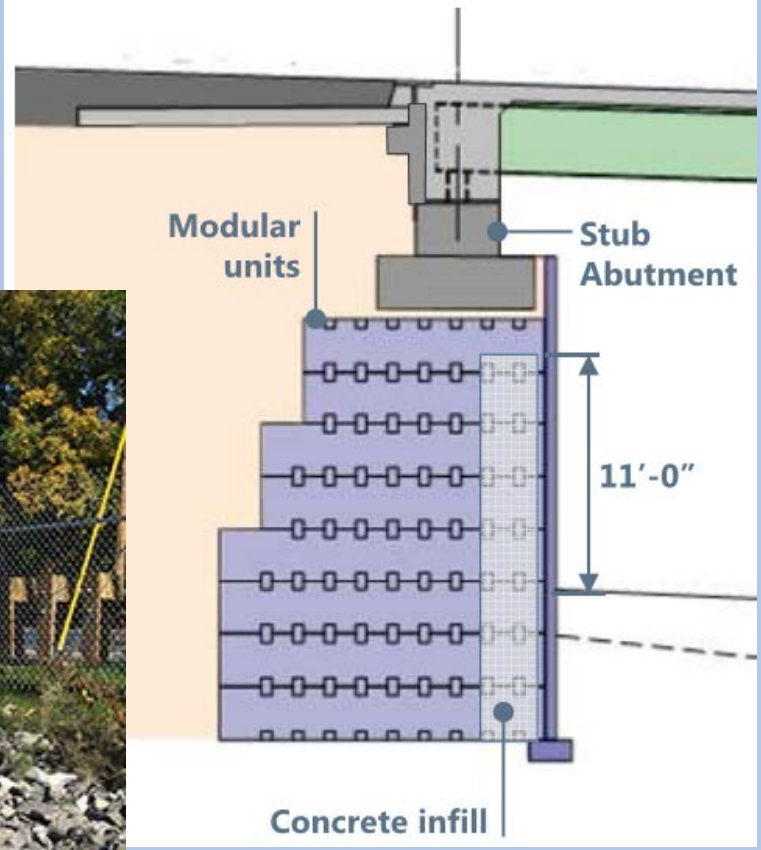
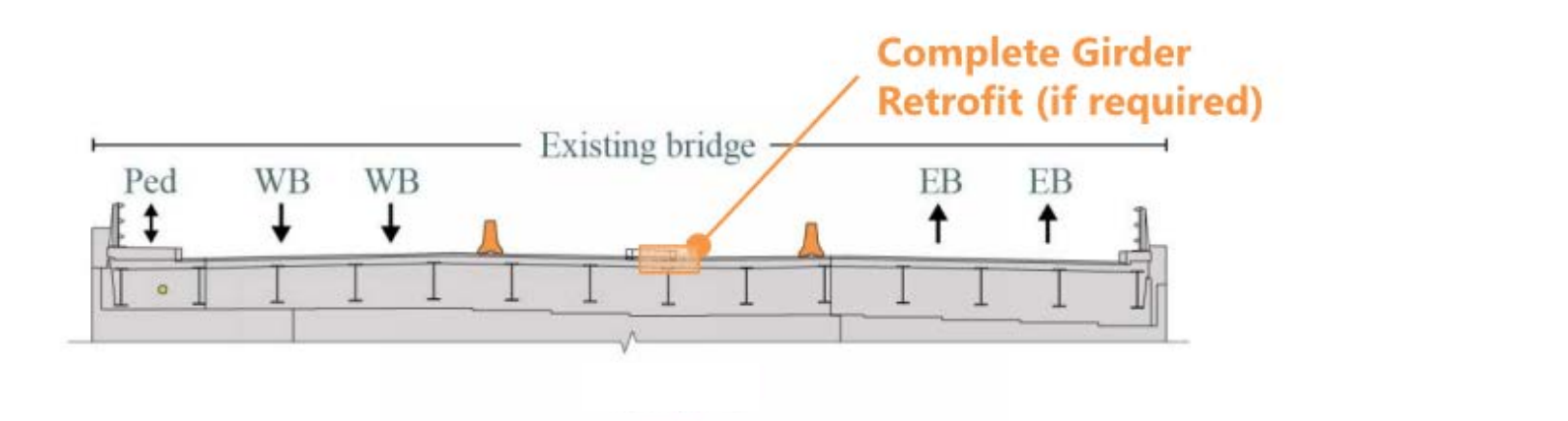
- Precast Abutments and Walls and Approach Slabs

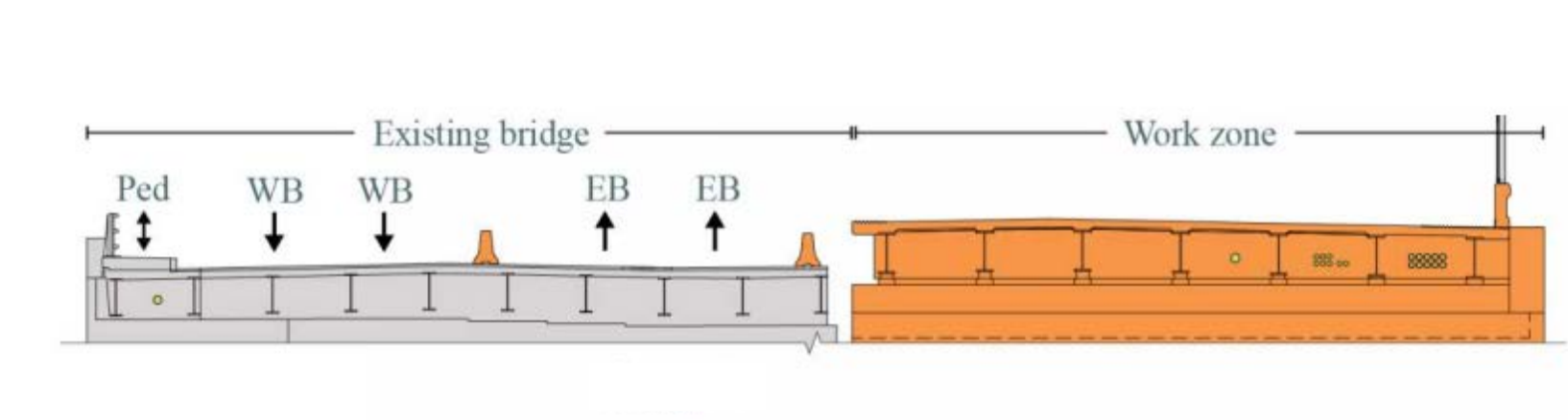


Taylor Street over I-495, Littleton

Traffic Control

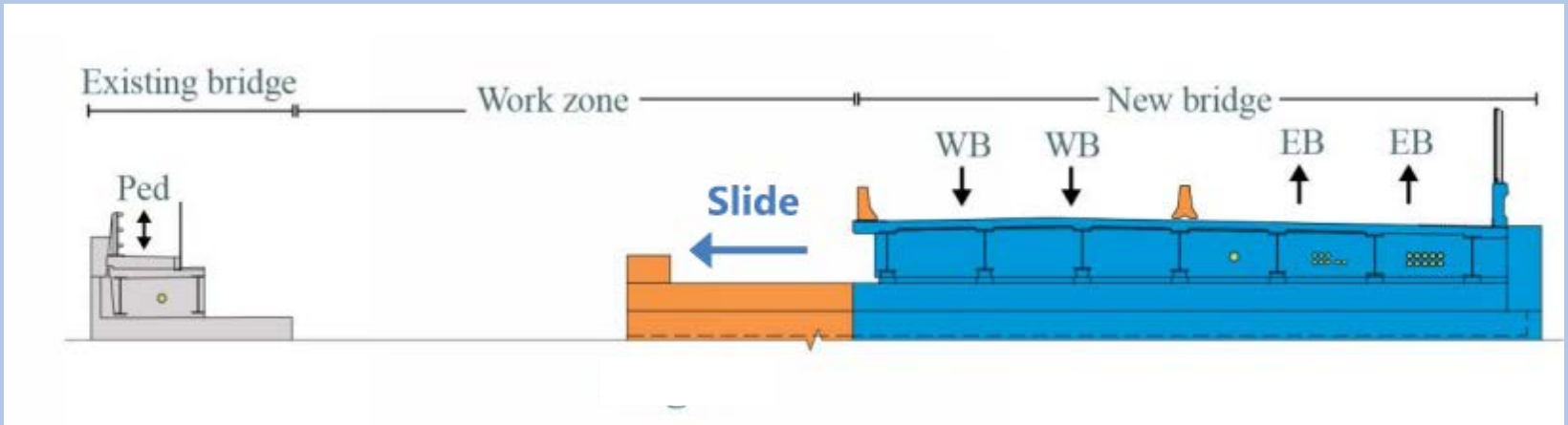


Stage 1: August 2018

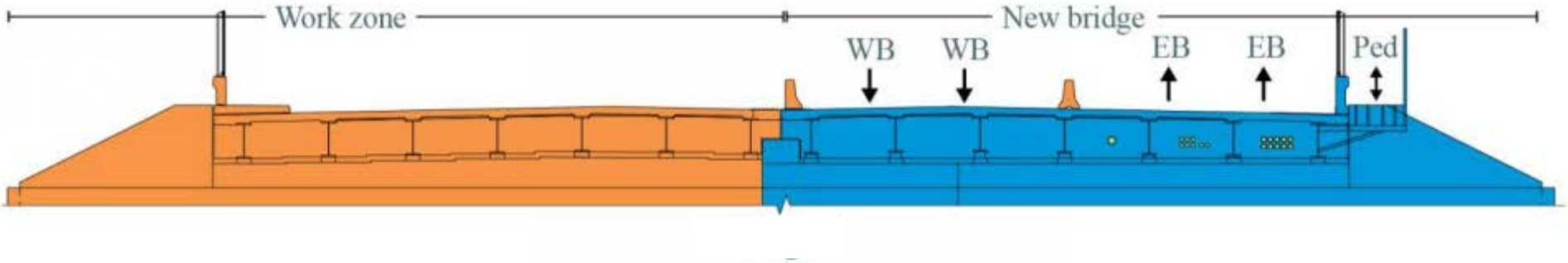


Stage 2: August 2018 – June 2019

Traffic Control

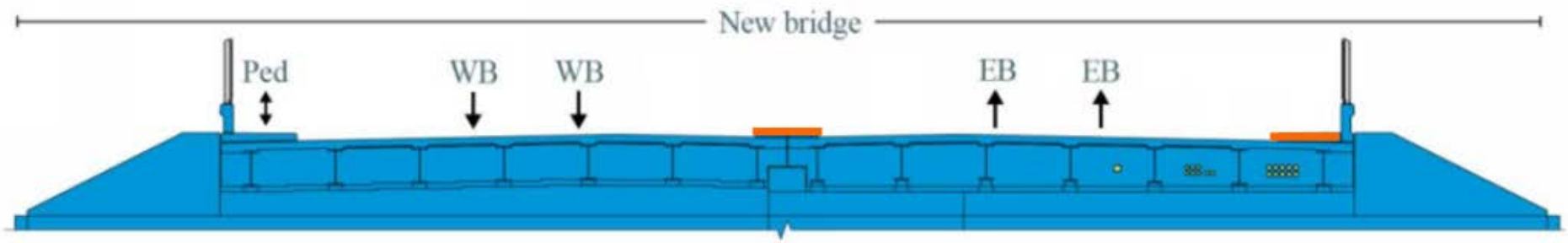


Stage 3: June 2019 – August 2019
Stage 4: Slide August 2019

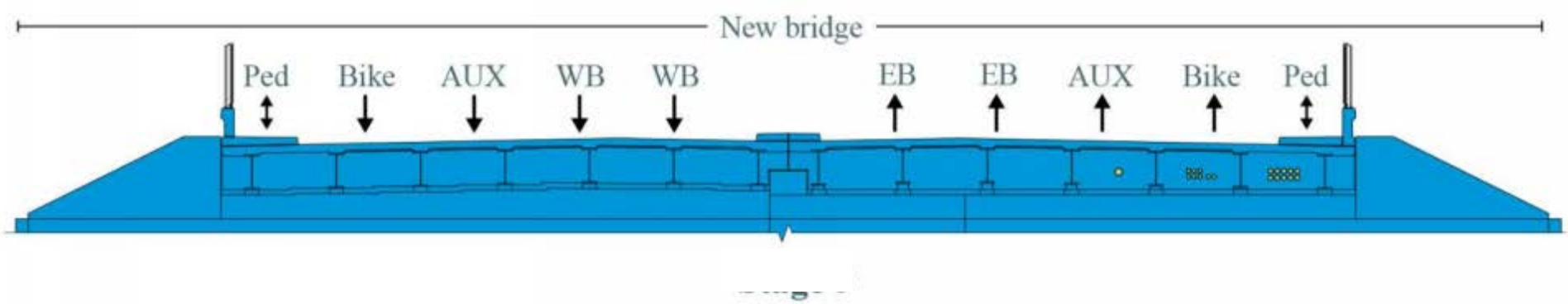


Stage 5: September 2019 – March 2021

Traffic Control



Stage 6: April 2021 – June 2021



Final: June 2021

Traffic Impacts

- US 44 and SR 24 – 2 lanes maintained except off-peak hours
- Lane closures restricted to nighttime off-peak hours
- Closure of SR 24 restricted to Weekend nighttime hours for certain overhead work
- Bridge Slide - One weekend night
  - Close US 44 and SR 24
  - Detour traffic via existing Ramps and other roads
  - Scheduled for August 2019

Project Dates

- NTP will be issued approximately one month after Board approval
- Contract has a 3½ year duration
- Detailed schedule is due from the DB Entity 30 days after the NTP is issued
- Contract Duration: 1282 days
- Estimated completion date: June 2021

Procurement

- Design-Build Project Delivery
- Advertised on April 29, 2017
- Technical/Price Proposals Submitted November 22, 2017
- Public Price Opening January 10, 2018
- Price Proposal reviewed and verified that documents are in order and that Best Value Proposer is eligible

Best Value Calculation

Proposer	Price (P)	Technical Score (TS)	Overall Value Rating P/TS
SPS New England	$19,923,400	79.3	251,241
Barletta Heavy Division	$22,915,000	78.7	291,169
ET&L Corporation	$25,237,250	84.6	298,313

Lowest Overall Value Rating = Best Value

Office Estimate: $20,413,673
Low Price Proposal: 2.4% below Office Estimate
Average Price Proposals: $22,691,883

Project Costs

Office Estimate:	$20,413,673
CIP Total	$30,480,734
Best Value Price:	$19,923,400
Total Project Cost:	$26,059,828