



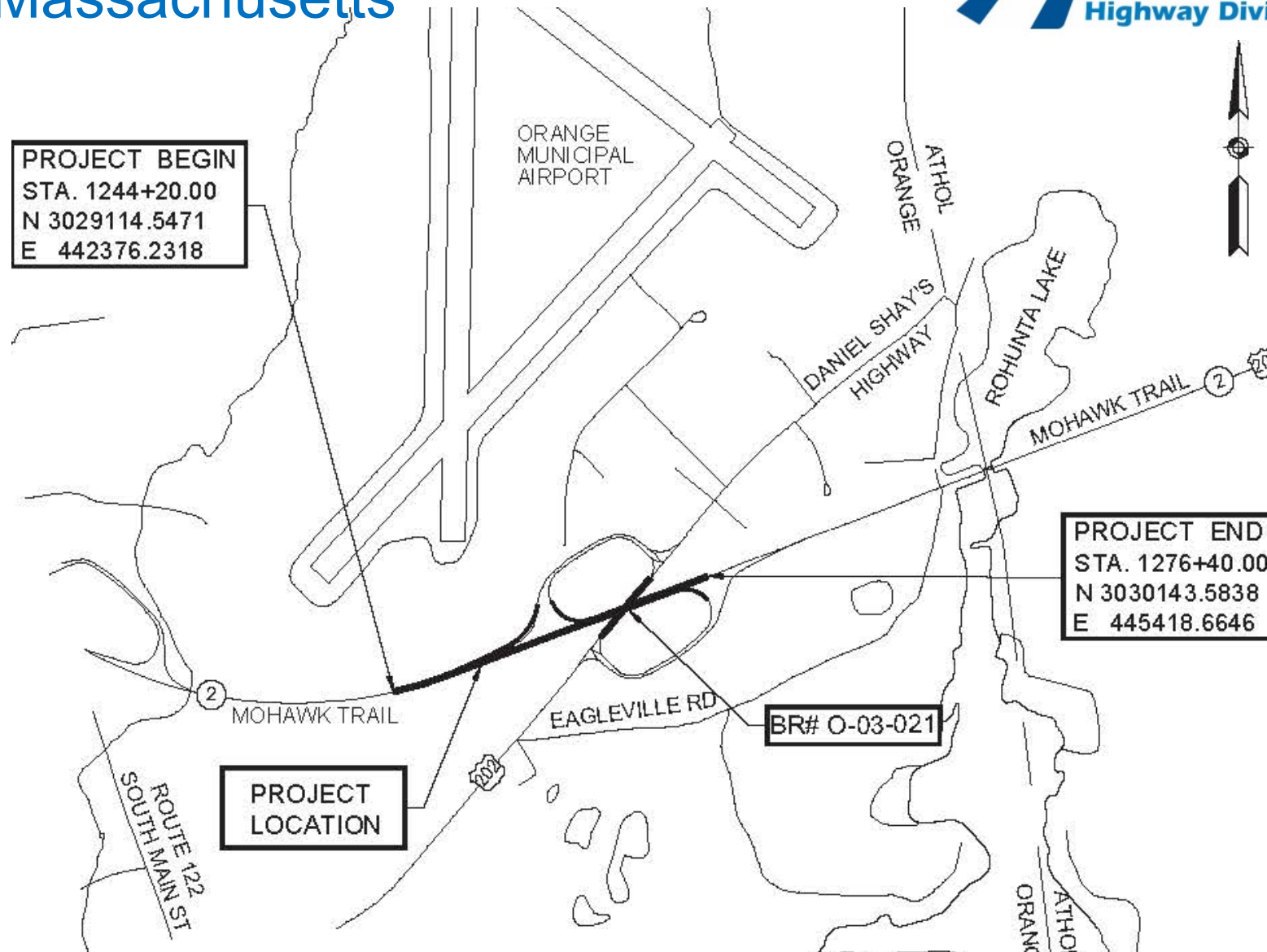
**MassDOT Highway Construction Contract: 110464**  
**Bridge Replacement Br. No. O-03-021 (Steel) Route 2**  
**(Mohawk Trail) over Route 202 (Daniel Shays Highway),**  
**Orange, MA**

Joint Board Meeting

June 22, 2020

# Project Location

## Orange, Massachusetts



PROJECT BEGIN  
STA. 1244+20.00  
N 3029114.5471  
E 442376.2318

PROJECT END  
STA. 1276+40.00  
N 3030143.5838  
E 445418.6646

PROJECT  
LOCATION

BR# O-03-021

# Overview



- Replacement of Bridge O-03-021 to address deterioration
- Widening bridges to facilitate staged construction
- The project begins at the limit of the previous Route 2 Reconstruction Project (602942) approx. 2,280 feet west of the bridge and extends approx. 640 feet east of the bridge.
- Requesting MassDOT Board approval of \$15.2M contract with E T & L Corporation
- Construction will take approx. 3 years to complete; staged to maintain 1 lane of traffic in each direction at all times

# Purpose and Need

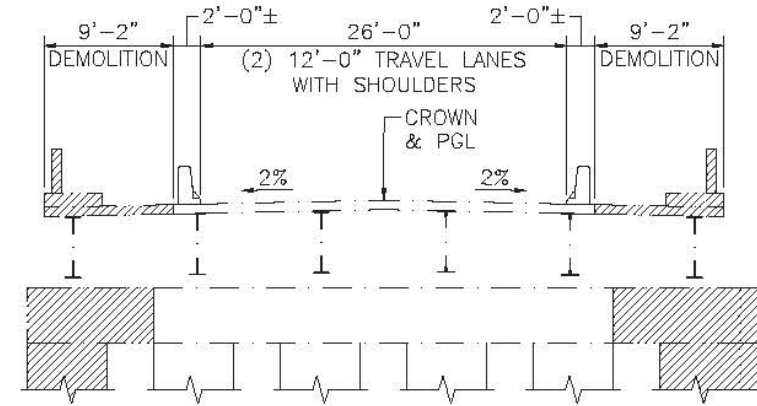
- Bridge O-03-021 is structurally deficient.





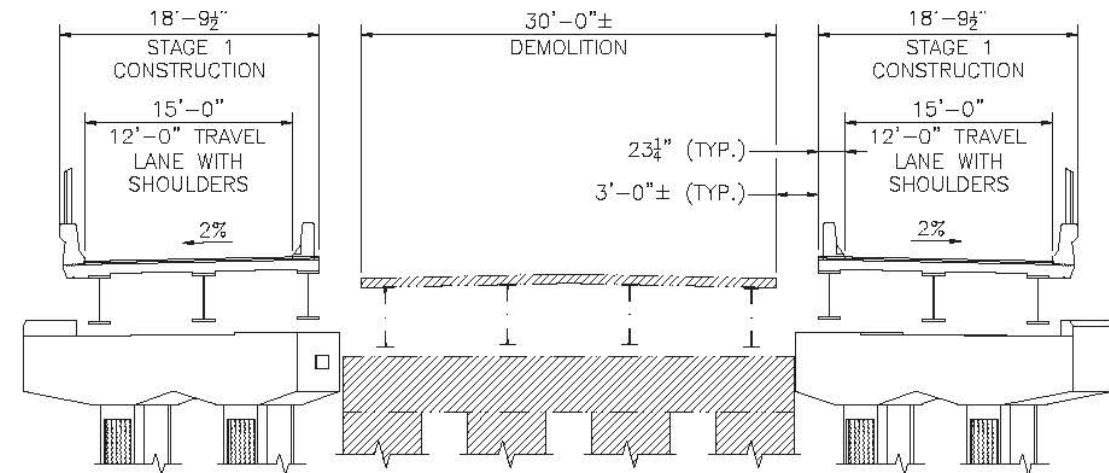
# Construction Scope

- Bridge replaced with 3 total stages of construction
- Constructed in the same location as the existing three-span structure
- One lane of traffic in each direction maintained at all times



SECTION — STAGE 1

SCALE: 1/8" = 1'-0"

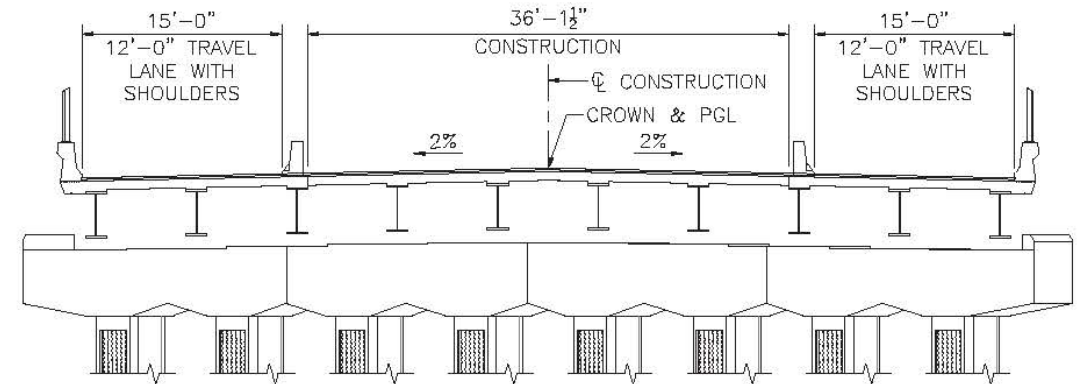


SECTION — STAGE 2A

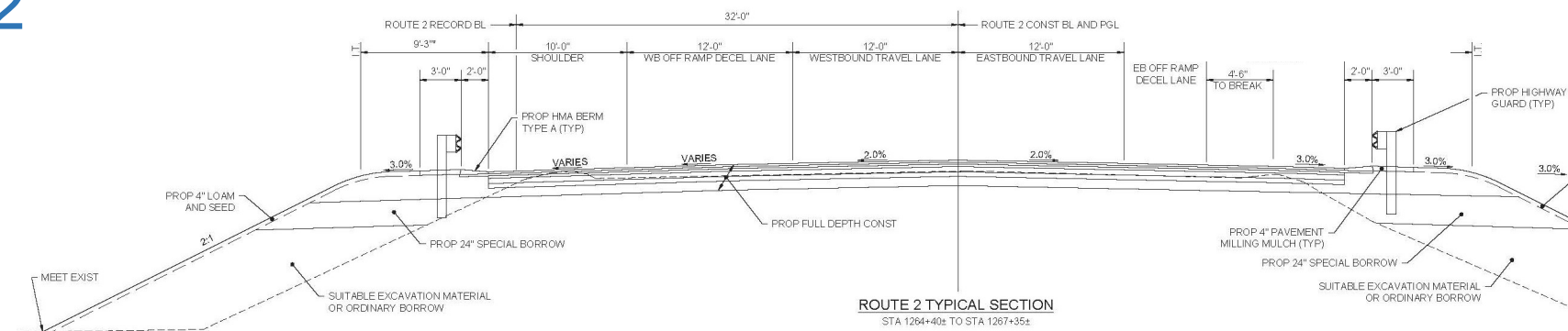
SCALE: 1/8" = 1'-0"

# Construction Scope (cont'd)

- Approx. 2440 feet of full pavement reconstruction and approx. 480 feet of mill & overlay with box-widening on Route 2
- Approx. 650 feet of mill & overlay on Route 202

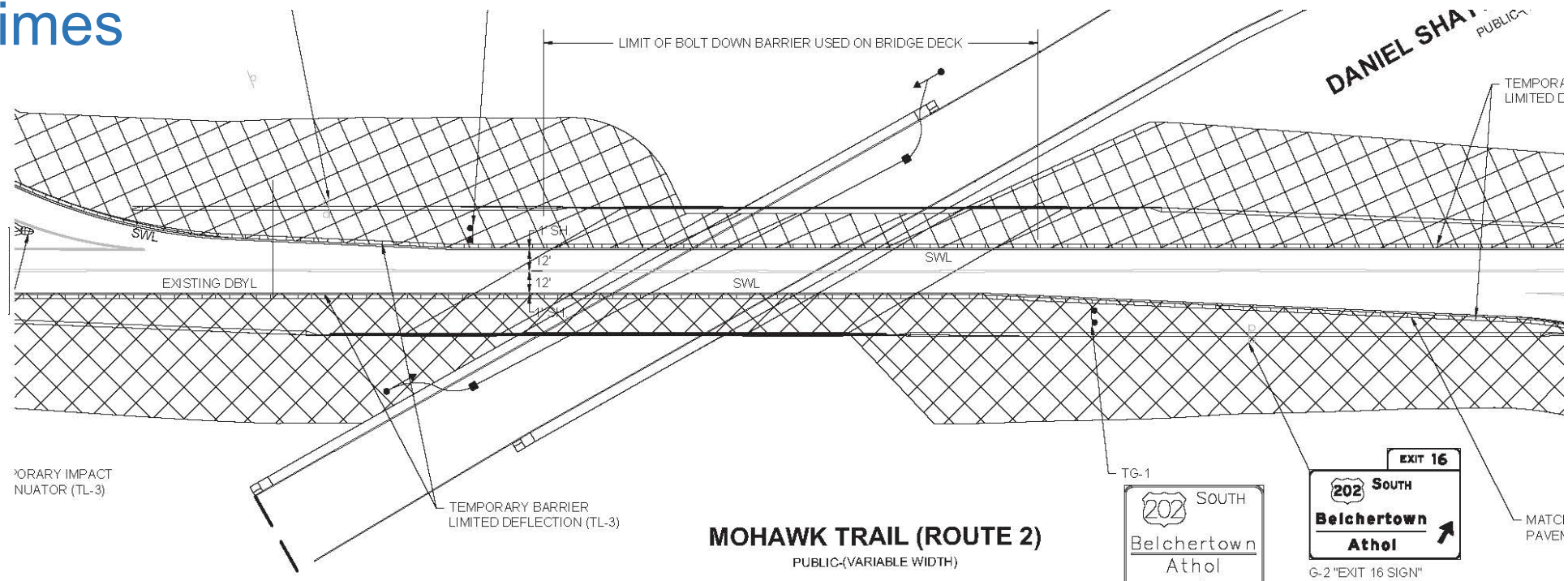


SECTION — STAGE 2B  
SCALE: 1/8" = 1'-0"



# Traffic Impacts

- Lane shifting will have minor impacts to the overall traffic pattern
- One lane of traffic in each direction will be maintained at all times



# Procurement



- Project was advertised December 28, 2019
- Programmed in the CIP at \$17,700,00
- Engineers Estimate was \$15,132,952.00
- Bid Opening was April 28, 2020
- Three (3) bids were received:
  - **ET&L Corp** **\$15,170,052.00**
  - Northern Constr Services LLC \$15,467,016.00
  - MIG Corporation \$16,127,358.50



# Overall Project Budget



Line Item	Budget
Bid Amount	\$15,170,052.00
Contingencies	\$ 1,517,005.20
Construction Engineering	\$ 758,502.60
Traffic Police	\$ 715,000.00
<b>Total</b>	<b>\$ 18,160,559.80</b>

- 80% Federal funding, 20% State funding
- Programmed Cost in the 2020 TIP: \$17.7M

# Request of the Board



- Staff request that the MassDOT Board authorize the Secretary of the Massachusetts Department of Transportation, or her designee, to award and execute MassDOT Construction Contract 110464: Bridge Replacement Br. No. O-03-021 (Steel) Route 2 (Mohawk Trail) over Route 202 (Daniel Shays Highway) with E T & L Corporation for an amount not to exceed \$15,170,052.00.