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**BRONSON WAY BRIDGE  
SEISMIC RETROFIT AND PAINTING**

FEB. 6, 2023 TRANSPORTATION COMMITTEE MEETING

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**PROJECT LOCATION**

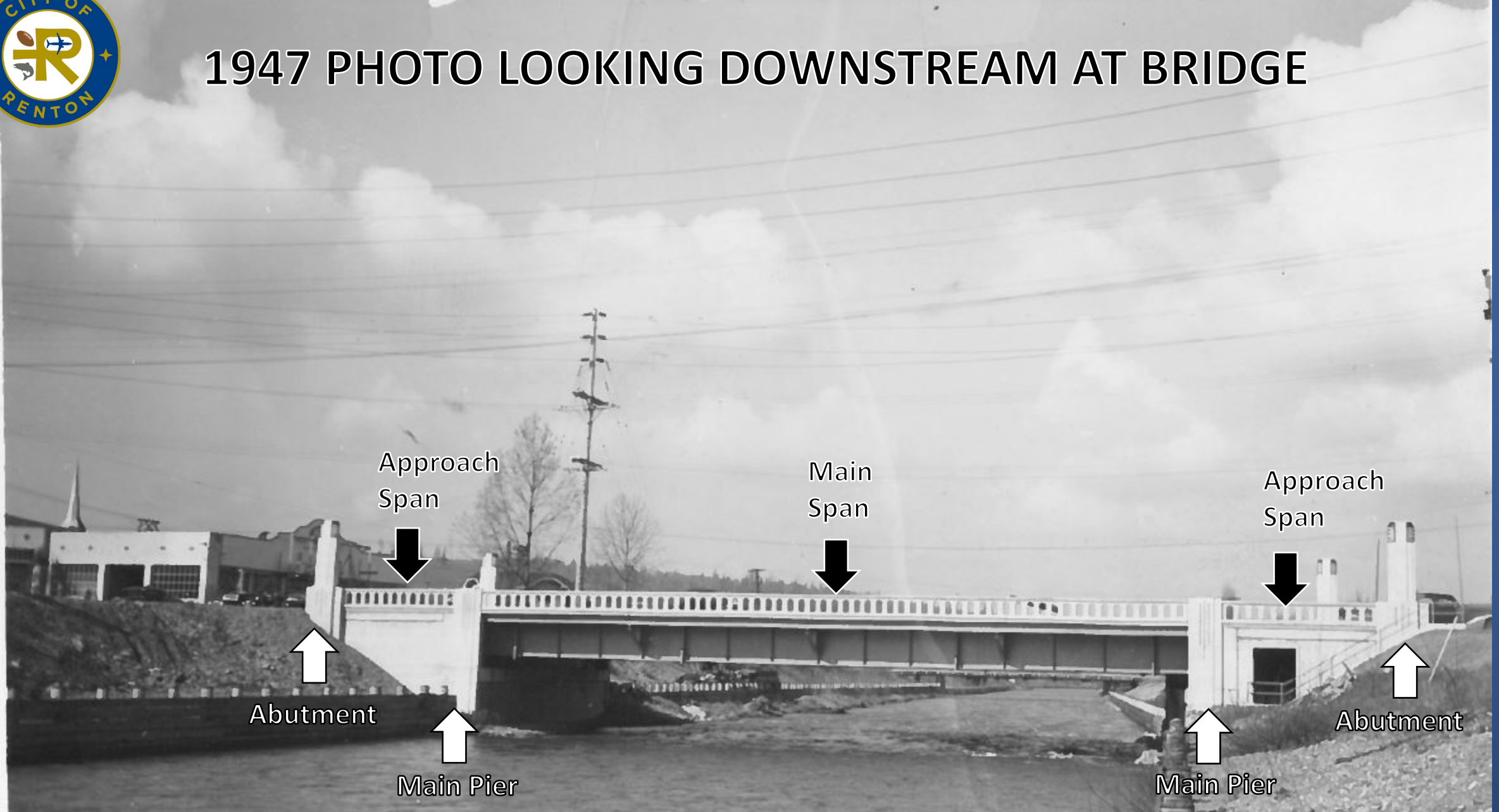


## BRIDGE HISTORY

Bridge Name:	Bronson Way Bridge (formerly Cedar R)
Year Built:	1939
Last Painted:	1999 (painting cycle approx. every 20 years)
Last Seismic Retrofit:	None
Last deck overlay:	1978
Ownership transfer:	2018 (from WSDOT to Renton with execution of Turnback Agreement TB 1-0254 for SR 900)



# 1947 PHOTO LOOKING DOWNSTREAM AT BRIDGE





## PROJECT INFO

Funding Source:	Washington State Legislature
Total Grant Funding:	\$3,000,000
Total Expenses PE Phase:	\$355,000 (\$355,000 in State funds)
Total Budget for Const Phase:	\$3,287,667 (\$2,645,000 in State funds)
Scope of Work:	Seismic Retrofit and Painting



# CONSTRUCTION SCHEDULE – COMPLETED WORK

1 <sup>st</sup> and 2 <sup>nd</sup> Ad for Bids:	May 18, 2022; May 25, 2022
Bids Due:	June 7, 2022 at 12:00 PM (3 bids received)
Bid Opening:	June 9, 2022 at 1:00 PM (3 bids opened)
Bid Evaluation Completed:	June 22, 2022
Award Date:	July 11, 2022
Contract Execution:	July 22, 2022
Notice to Proceed:	Sept. 18, 2022
Install work platform:	Sept. 19, 2022 – Sept. 22, 2022 (bridge open)
Install containment, remove paint:	Sept. 23, 2022 – Sept. 30, 2022 (bridge closed)
Apply new paint (3-5 coats):	Oct. 1, 2022 – Oct. 8, 2022 (bridge closed)
Remove work platform, containment:	Oct. 10, 2022 – Oct. 13, 2022 (bridge closed)
Work Element (1) Complete:	Oct. 14, 2022 (bridge reopened)



# CONSTRUCTION SCHEDULE – REMAINING WORK

- Suspension of Work: Oct. 14, 2022 (Procure new elastomeric bearings)
- Work Element (2): Requires full bridge closure. Bridge jacks used to elevate superstructure (span 2) to replace bearings. No traffic allowed on superstructure when elevated. Work dependent upon water surface elevation of the Cedar River at the bridge (no high water).
- Work Element (3): Required full bridge closure. Upon removal of asphalt wearing course from bridge deck, underlying concrete deck evaluated for additional repairs. No traffic allowed on bridge while deck repairs performed, expansion joints replaced, waterproofing membrane installed. Work dependent on dry weather conditions with temperatures above 45 degrees.
- Duration: Remaining contract working days = 40.5 (approx. 2 months). Baring any unforeseen issues, it is presently anticipated that this is sufficient to complete Work Elements (2) and (3).
- Restart of Work: Spring 2023. Earliest potential start date end of March 2023. Depends on forecasted weather conditions.



# PHOTOS OF WORK PLATFORM, CONTAINMENT, EQUIPMENT







# BEFORE AND AFTER PHOTOS OF BRIDGE PAINTING





# BEFORE AND AFTER PHOTOS OF BRIDGE PAINTING






# 2017 PHOTOS OF EXISITNG BRIDGE BEARINGS





# CONCEPT - BRIDGE JACKING AND BEARING REPLACEMENT



  
Precast  
Bearing  
Pedestal

  
Bridge  
Jack

  
Bridge  
Jack

  
Precast  
Bearing  
Pedestal



# EXAMPLES OF BRIDGE JACKS FOR RAISING SPAN



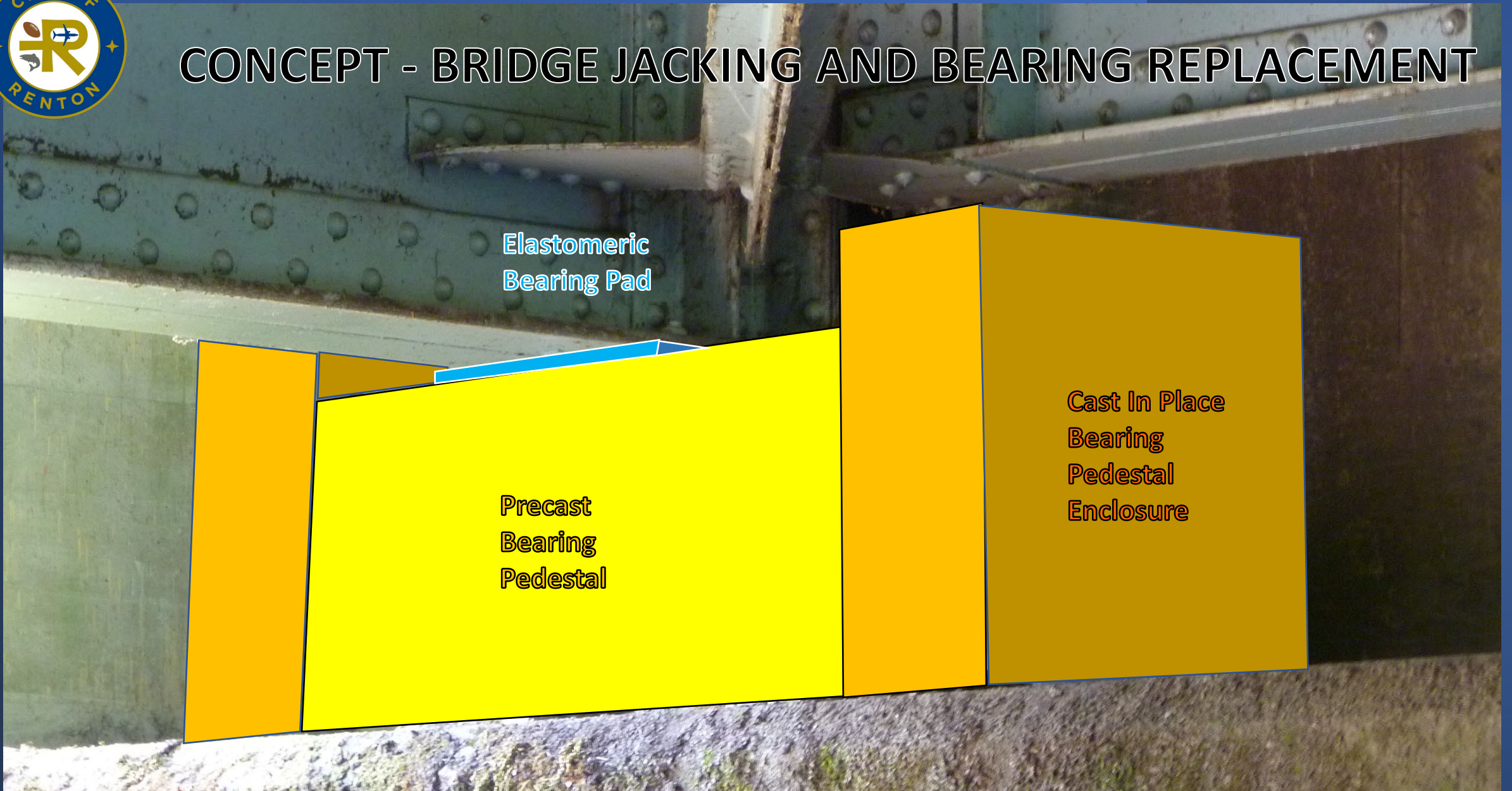


# CONCEPT - BRIDGE JACKING AND BEARING REPLACEMENT

Elastomeric  
Bearing Pad

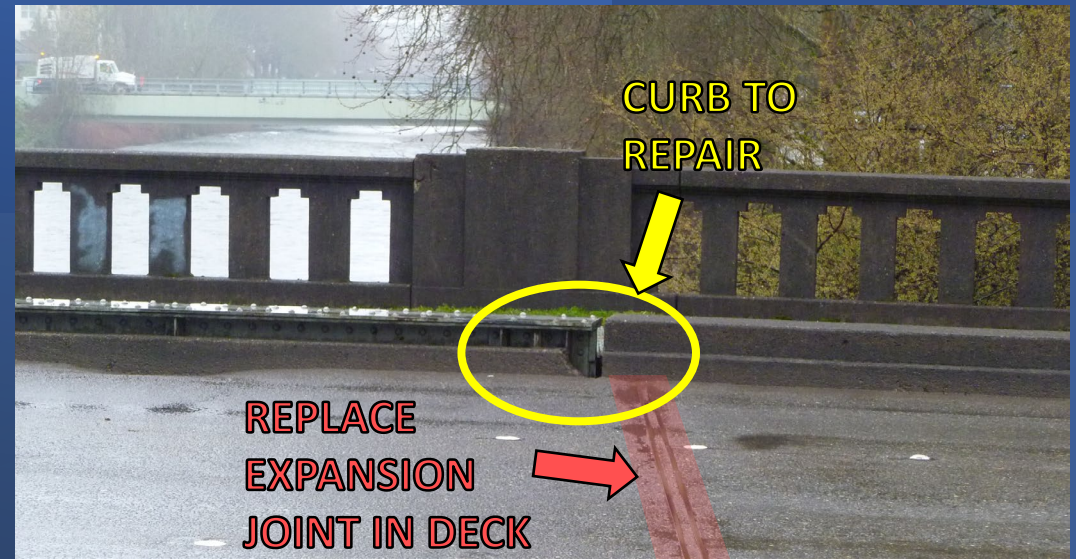
Precast  
Bearing  
Pedestal

Cast In Place  
Bearing  
Pedestal  
Enclosure



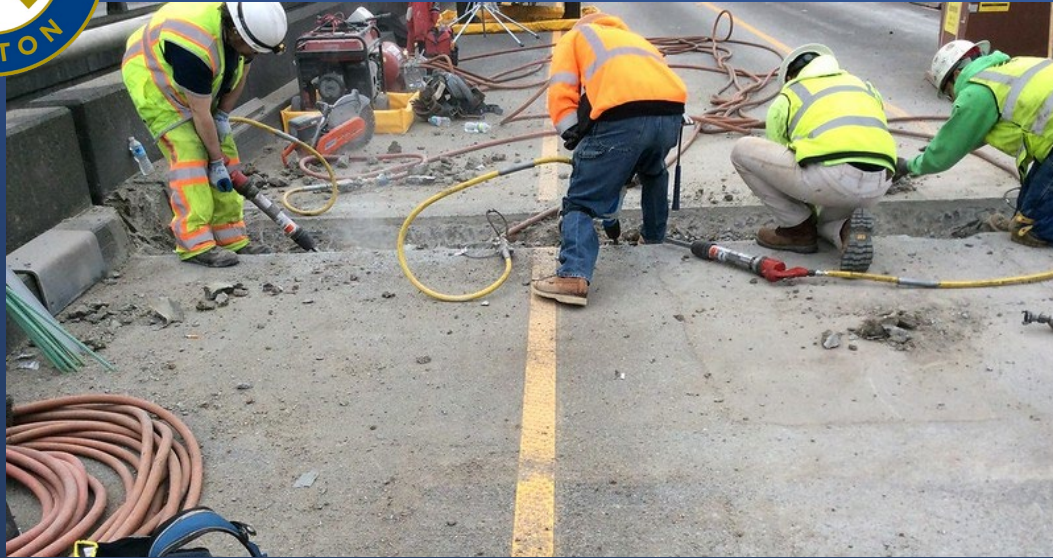


# 2017 PHOTOS OF EXISTING EXPANSION JOINTS AND CURB





# EXAMPLES OF EXPANSION JOINT REPLACEMENT







# PRIMARY NB AND SB DETOUR ROUTES DURING CLOSURE

