# Amtrak Support Projects





## Key Support Projects



#### PTC Mitigation

• Switch Monitoring, Block System

#### Burlington Work

• Layover Track, Station Platform

#### **Brush Removal**

• Increase Safety, Enhance Visibility

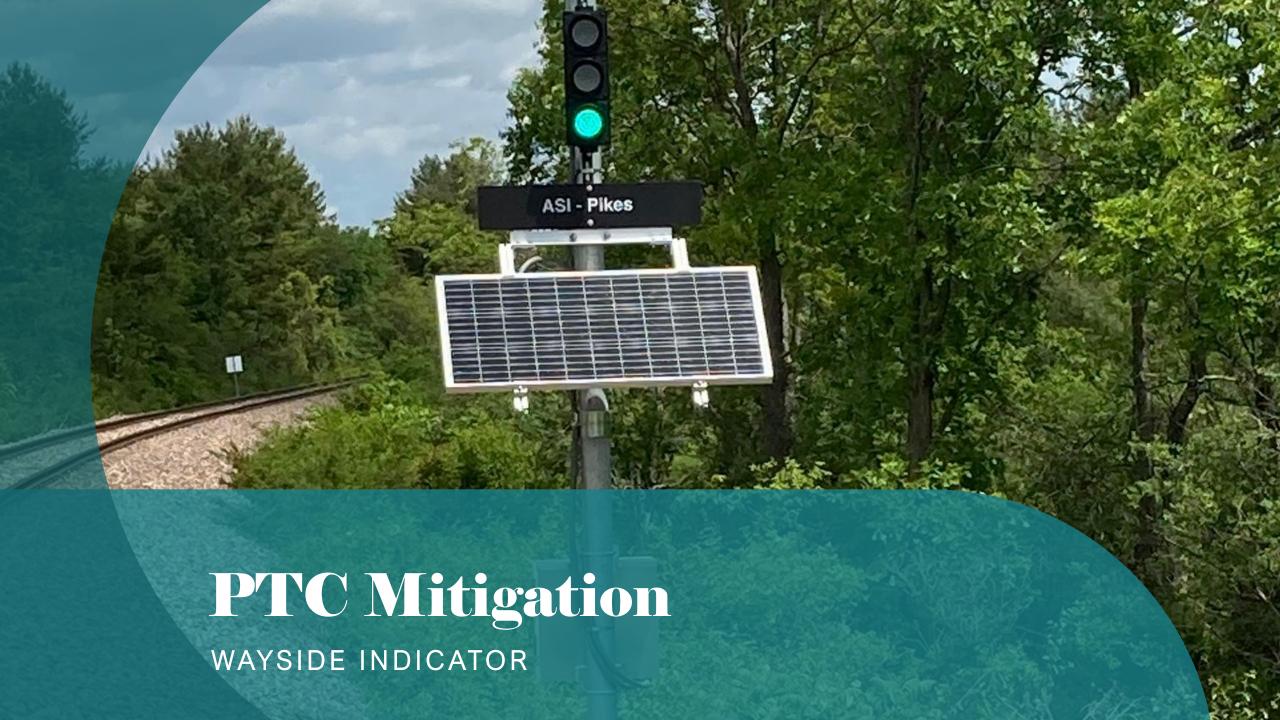
#### Slurry Injection

• Reduce Slow Orders, Improve On-time Performance



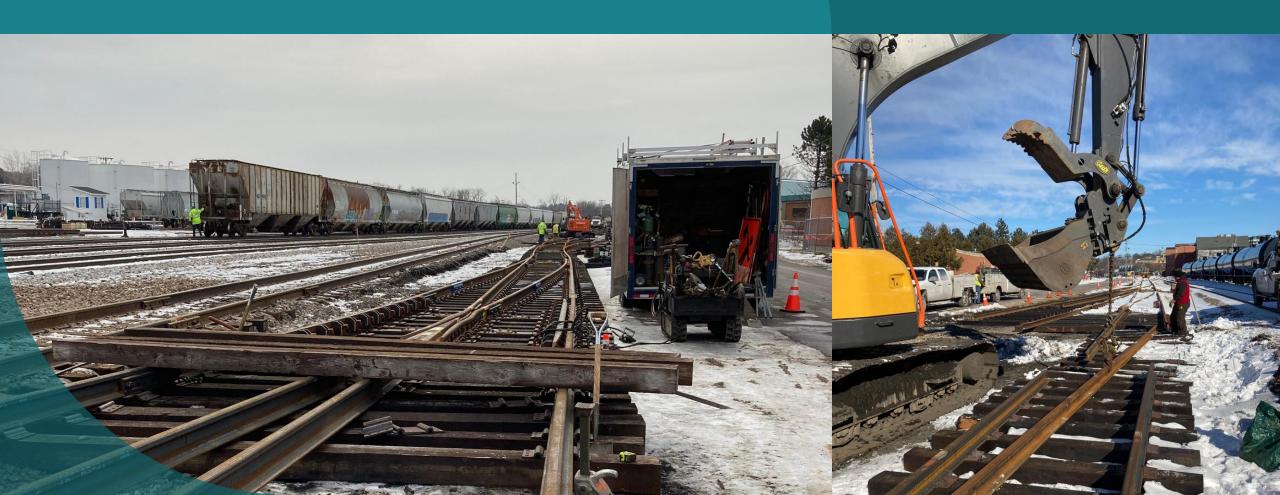
#### PTC Mitigation

- ►OVER TWO YEARS SPENT WORKING WITH AMTRAK AND THE FRA
- DEVELOPED THE ETHAN ALLEN EXTENSION OPERATING PLAN (PTCIP)
- FORTY-TWO SWITCH MONITORS AND POINT CLAMPS INSTALLED
- TWENTY-SIX WAYSIDE INDICATORS INSTALLED



# Burlington Yard

MULTIPLE TRACKS MOVED
TO ACCOMMODATE THE
AMTRAK LAYOVER SIDING



# Burlington Yard

MULTIPLE SWITCHES
MOVED OR REPLACED





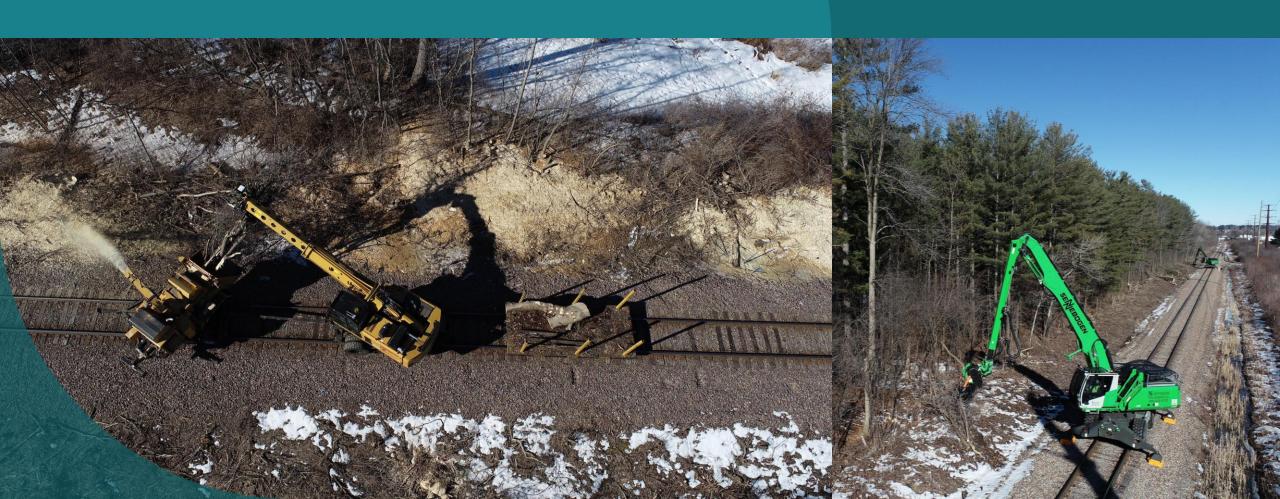
## **Burlington Platform**

MAIN TRACK MOVED EAST TO ACCOMMODATE THE BIKE PATH AND THE NEW AMTRAK PLATFORM



## Brush Removal

ENTIRE CORRIDOR FROM RUTLAND TO BURLINGTON CLEARED



## Brush Removal

#### SIGNIFICANT SAFETY IMPROVEMENT







# **Slurry Injection**

REDUCE SLOW ORDERS AND INCREASE ON-TIME PERFORMANCE

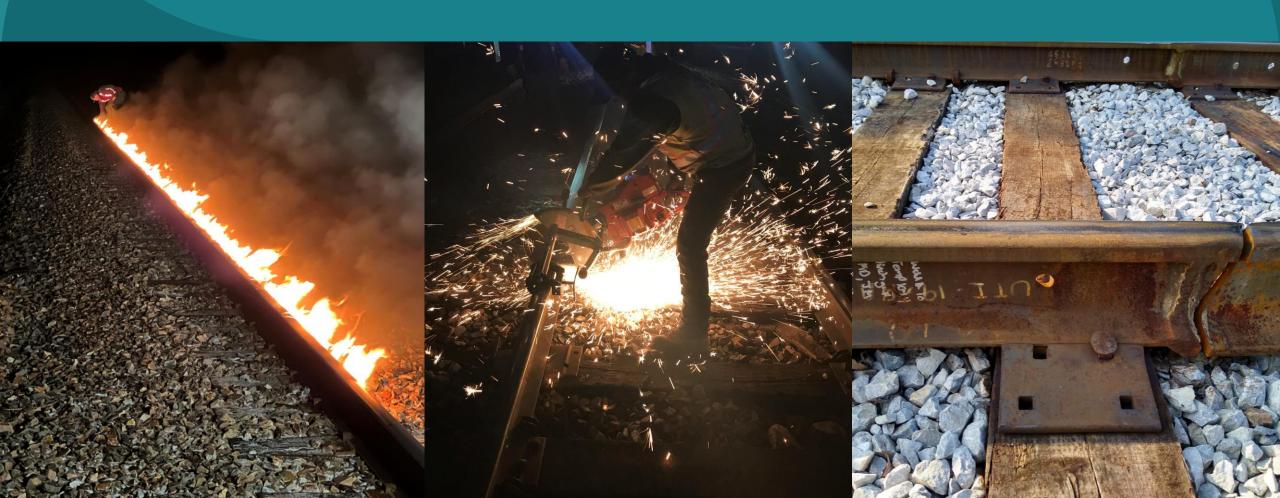


### CWR – Continuous Welded Rail

- ➤ MANAGE COMPRESIVE AND TENSILE FORCES
- > ONE MILE SECTION WILL CONTRACT ROUGHLY 43" IN THE WINTER
- ➤ ONE MILE SECTION WILL EXPAND ROUGHLY 10" IN THE SUMMER
- $\rightarrow$  G = (105 RT) x 0.000078 x L
  - G = CHANGE IN LENGTH,
  - RT = RAIL TEMPERATURE,
  - L = RELAXED RAIL LENGTH
- > FORCES MANAGED WITH ANCHORS, TIES, AND BALLAST



### CWR – Continuous Welded Rail





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# Welding

OVER 100 WELDS PERFORMED IN 2022



# Start of Service

JULY 29<sup>TH</sup>, 2022



#### **Start of Service**

JULY 29<sup>TH</sup>, 2022







