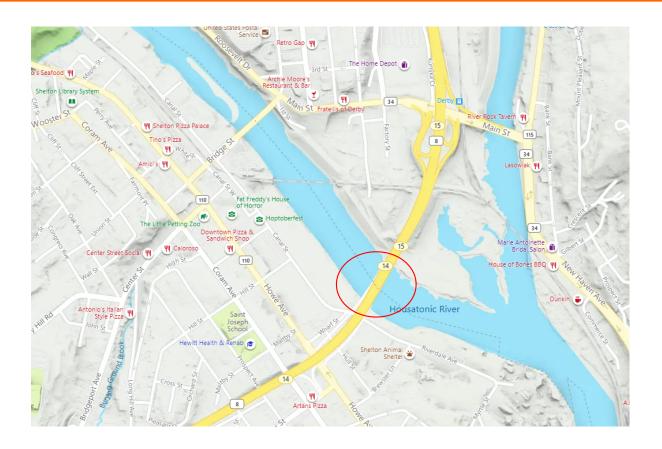
# Project Location





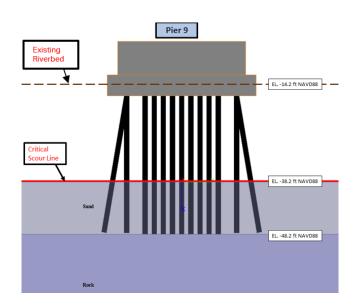
## Existing Bridge / Purpose & Need

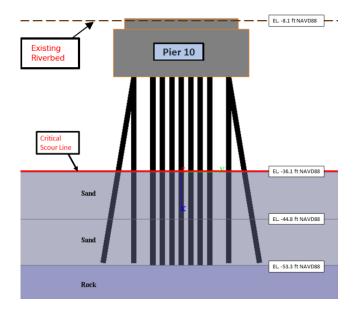
- Bridge constructed in 1951 and widened in 1990
- 3 main truss spans over river Piers 9 and 10 within River
- Reinforced concrete piers on steel piles
- Project 126-170 Steel Repairs, Painting, Install Scour Monitoring System
- Underwater Inspection Report Findings
  - 2020 Scour Rating = 5 Fair
  - Pier 9 Upstream Exposed Piles
  - 2021 analysis suggests scour rating should be reduced to 3 until countermeasures are installed



### Pier Stability Analysis

- Analysis per FHWA guidelines predicts scour to bedrock.
- Critical scour elevations were determined. This is the elevation at which the piers would become unstable.
- Therefore, scour countermeasures are required.







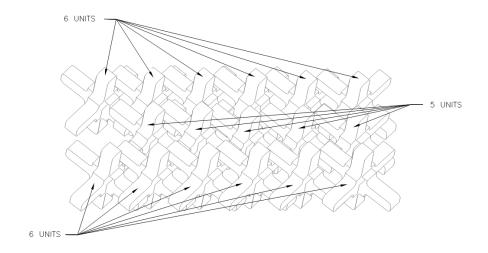
### Preferred Alternative: Precast Concrete Armor Units

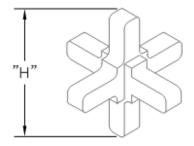
#### What are they?

- 6-legged precast concrete jacks
- Installed as 6 x 5 x 6 unit bundles
- Interlocking pattern prevents movement and protects riverbed

#### Why are they preferred?

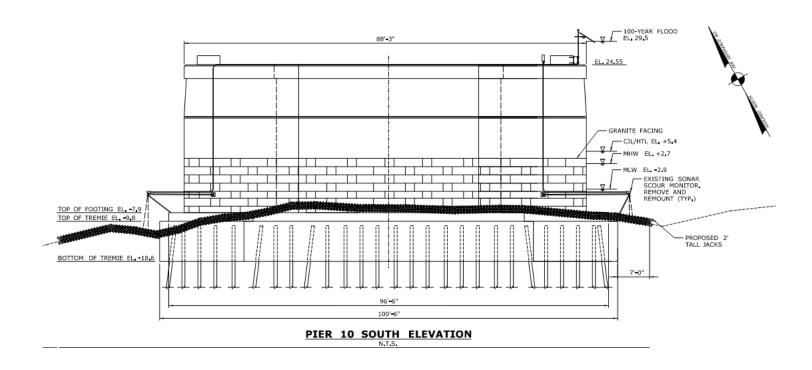
- Significantly lower construction cost than other alternatives
- One construction season
- Requires minimal excavation
- Low maintenance
- Protects riverbed and halts ongoing scour around piers







### Preferred Alternative: Precast Concrete Armor Units





### Preferred Alternative: Precast Concrete Armor Units

