

Retaining Walls

Preservation Discussion

Metal Bin Walls



Metal Bin Walls

- Several were built in 70's and 80's
- Cellular construction
- Deteriorates from back forward

Cellular Construction



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

Band Aid



Bandage



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

Other Repairs

- Soil Nail
- Sheet Piles in Front
- MSE Walls

MSE Walls



MSE Walls

- Precast Concrete Panels
- Metal Straps or Plastic Mesh

Starting to Bulge



Failure



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

Soil Nail



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

Another Failure



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

Failed Straps



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

The Fix



NATIONAL BRIDGE PRESERVATION PARTNERSHIP CONFERENCE 2018

PRACTICES WE CAN NOT AFFORD TO DEFER

MSE Walls

- What are some potential problems / concerns?
- Projected life span?
- What steps are taken to protect steel straps?
- Differential Settlement?