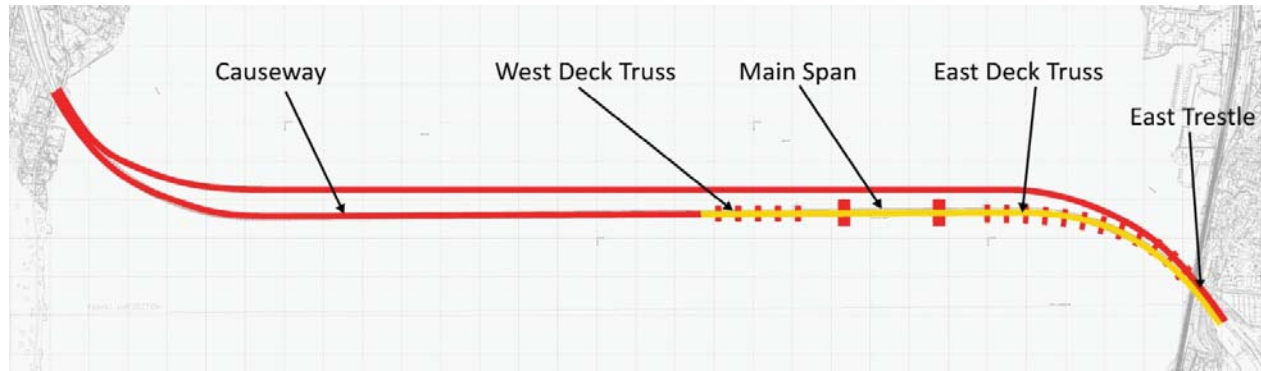


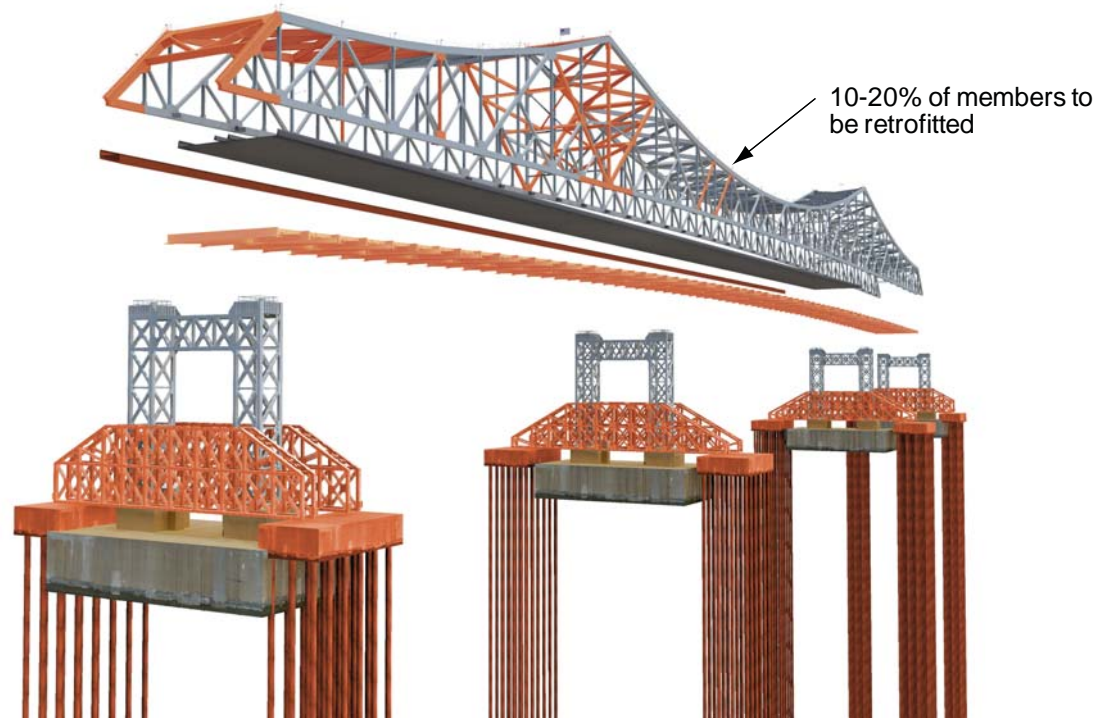
# Why Replace the Tappan Zee Bridge?

## Extent of New Structure Required for Rehabilitation



■ Replacement of Existing Structure  
■ Rehabilitation of Existing Structure

## Seismic Modifications – Main Span



## Why the Causeway Needs to be Replaced

- 15 Steel Stringer Fatigue
- 14 Column Top Deterioration
- 13 Column Base Deterioration
- 12 Pile-Cap Beam Deterioration
- 11 Column - Beam Seismic Failure
- 10 Pile-Cap Seismic Failure
- 9 Cross Beam Deterioration
- 8 Founding Piles Deterioration
- 7 Additional Piles for Seismic
- 6 Bearing Deterioration
- 5 Diaphragm Beam Cracks
- 4 Joint Leakage
- 3 Open Drains
- 2 Deck Deterioration
- 1 Facia Support Deterioration

# Modifications Required  
 # Future Risks