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Overview

Bridge Funding

Focused on Conditions

Highway Bridge Program (HBP)
- Funds the major rehabilitation or replacement of eligible bridges on or off the state system

Bridge Maintenance Improvement Program (BMIP)
- Funds the rehabilitation of eligible bridges on the state system

Focused on Safety

Bridge System Safety Program (BSSP)
- Targeted to address various safety risks
Overview

Bridge System Safety Program (BSSP)

• Targeted to address various safety risks

- Railroad Grade Separation (RGS)
- Rail Replacement Program (RRP)
- Higher Risk Bridges
Bridge System Safety Program

- Railroad Grade Separation (same as before)
  - Existing On-system at-grade rail-highway crossing
  - Deficient railroad underpass
**Bridge System Safety Program**

- **Rail Replacement**
  - Upgrade Deficient railing
  - On-system, non-historic bridge
  - Good or Fair condition
  - Condition ratings all > 5
Bridge System Safety Program

Narrow Bridge Prioritization

- Deck Width – emphasis on 24 ft or less
- AADT
- Truck Traffic Percentage

Deck width < 24 ft
Bridge System Safety Program

Narrow or Constricted Bridge Deck

• Approach >> Bridge deck
• Bridge width to Approach with ratio
System Safety

Waterway Risks

- Scour
- Debris Impact and Loading
  - Diverted flow
System Safety

6-30 ft Pan Girder Spans
Normal day with debris
Bridge System Safety Program

During and after flood event
Considerations

Rehab or Widen?
• Cost of widening vs replacement?
• Widening unit costs 3x-4x new construction
• Load Capacity
Example Bridge:

- 25 ft spans
- Operating Rating = HS 22
General Policy

New Trucks
- Specialized Hauling Vehicles: SU4, SU5, SU6, SU7
- Mil Truck: 90 k (6 axles)
- Ocean Containers: 100 k (7 axles)

SU7 – 3 fixed axles, 4 lowered axles
General Policy

Example Bridge:
- 25 ft span
- Operating Rating = HS 22
- New truck loads
  - SU4, SU5, SU6, SU7

![Graph showing SHV's Compared to HS-20](image)
General Policy

Example Bridge:
- 25 ft span
- Operating Rating = HS 22
- New truck loads
  - SU4, SU5, SU6, SU7
  - Ocean Container (100 k)
  - Milk Truck (90 k)
General Policy

New Threshold:

- Operating Rating = HS-24
General Policy

Rehab or Widen?
• FS slabs
• Some pan girders
• T-beams

Life cycle cost?
• 75 year design life
• New construction similar TCP
Questions

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