

STATE OF GOOD REPAIR PRIORITIZATION PROCESS UPDATE

Kimberly Pryor, Infrastructure Investment Director
Greg Henion, P.E., State Structure and Bridge Engineer

Existing State of Good Repair Program

- The State of Good Repair (SGR) Program was established by VA
 Code § 33.2-369 to address deficient state and locally owned bridges and pavements
- Defines "state of good repair purposes" as improvement of deficient pavement conditions and improvement of structurally deficient (poor) bridges
- Specifies eligible uses
 - Reconstruction and replacement of poor bridges
 - Reconstruction and rehabilitation of pavement on the Interstate and Primary Systems, including municipality-maintained primary extensions
- Requires an equitable and needs based distribution of funding, with no district receiving more than 17.5% or less than 5.5% of total funding available in any year



Existing State of Good Repair Program (continued)

- Specifies extraordinary conditions under which the Board may authorize a waiver of the cap or allocation of funds for paving on the Secondary System prior to the needs-based distribution
- Requires a priority ranking system that takes into consideration
 - Number, condition, and costs of poor bridges
 - Mileage, condition, and costs to replace deteriorated pavements
- Allocates funds to 4 categories within each district based on need
 - VDOT Bridges
 - Locality Bridges
 - VDOT Pavements
 - Locality Pavements
- The CTB last approved the SGR Prioritization Process on February 17, 2021



Existing State of Good Repair Program (continued)

- The current SGR program has been extremely successful in decreasing the number and percentage of poor bridges (VDOT and locality owned bridges)
- The 2019 Maintenance and Operations Comprehensive Review found that if Virginia changed its bridge management model from the current "worst- first" approach to a "preservation-focused" approach, Virginia could expect to maintain its bridge inventory at an acceptable level of service for the next 50 years with existing levels of funding
- In 2021, the Joint Legislative Audit and Review Commission's (JLARC) Transportation Infrastructure and Funding Report to the Governor and General Assembly included a recommendation that the SGR statute be amended to allow use of SGR funding for bridges that are on the cusp of becoming poor



4

House Bill 1254

- HB1254, amending § 33.2-369, was enacted into law (Chapter 415) during the 2024 General Assembly Session
 - Expanded the pool of bridges eligible for SGR funding to include cusp bridges
 - Expanded the types of work to improve bridges eligible for SGR funding
 - Applies to new project allocations made after June 1, 2025
- Revisions to the Board's SGR Prioritization Process are needed to address Chapter 415 changes



Explanation of SGR Bridge Changes

BRIDGE GENERAL CONDITION RATINGS (GCR)

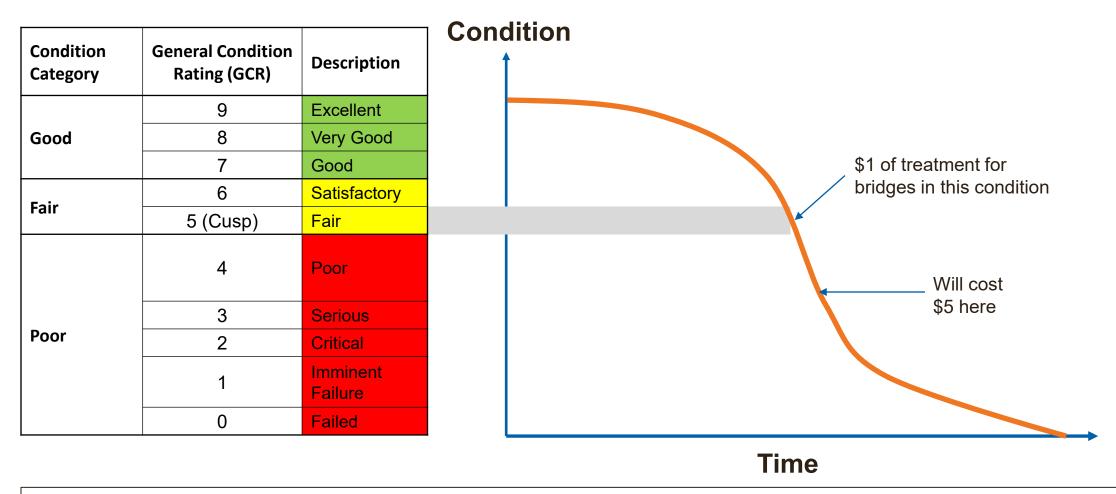
GCR	*NBIS	FHWA	ALTERNATE TERMS	CHARACTERISTICS
9	EXCELLENT			
8	VERY GOOD	GOOD		no problems noted
7	GOOD			minor problems noted
6	SATISFACTORY	FAIR		elements show minor deterioration
5	FAIR		CUSP	elements are sound but have minor section loss, cracking, spalling or scour
4	POOR		**STRUCTURALLY DEFICIENT	elements have advanced section loss, deterioration, spalling or scour
3	SERIOUS	DOOR		section loss, deterioration, spalling or scour have seriously affected primary structural components. Fatigue cracks in steel or shear cracks in concrete may be present. Bridge is closed.
2	CRITICAL	POOR		advanced deterioration of primary structural components. Fatigue cracks in steel or shear cracks in concrete may be present. Bridge is closed.
1	IMMINENT FAILURE			major deterioration or section loss in critical structural components or obvious vertical or horizontal movement affecting stability. Bridge is closed.

^{*}NBIS – National Bridge Inventory System



^{**}STRUCTURALLY DEFICIENT - term has fallen out of favor of FHWA. VDOT no longer uses it.

Bridge Preservation Benefits



Rehabilitation and preservation generally cost 5 to 6 times less than replacement while adding decades of service life. Cusp bridges are generally better candidates for rehabilitation and preservation than poor bridges.



Explanation of SGR Bridge Changes

- Eligible Bridges
 - Increases the number of eligible bridges by ten-fold (300 vs. 3,000)
 - Aligns the SGR Program with VDOT's preservation-focused bridge management approach.
- Eligible Improvement Types
 - Broadens the scope of eligible work, to ensure treatments necessary to address both poor and cusp bridges are captured
 - These treatments (e.g., deck overlays and replacements, bridge painting, beam end reconstruction, joint reconstruction, scour fortifications, etc.) can be implemented for 15-20% of the cost of replacement and extend the useful life of bridges up to 30-40 years



Types of Work: Elimination of Leaking Deck Joints



Protects Girders and Bridge Supports from Chlorides and Water 35 to 50 years additional service life for protected elements



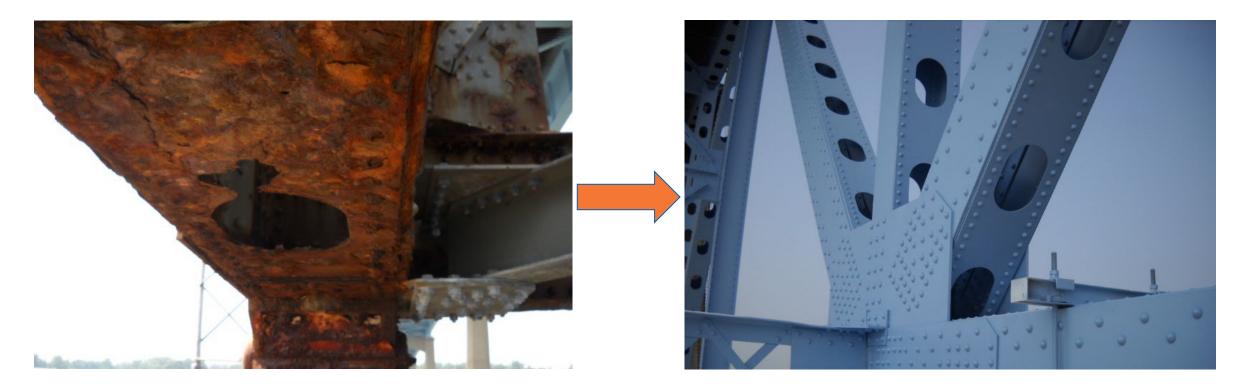
Types of Work: Repairing Corroded Beam Ends



- 50 Years of additional service life when joints are properly addressed
- Must be performed before too much corrosion has occurred



Types of Work: Painting

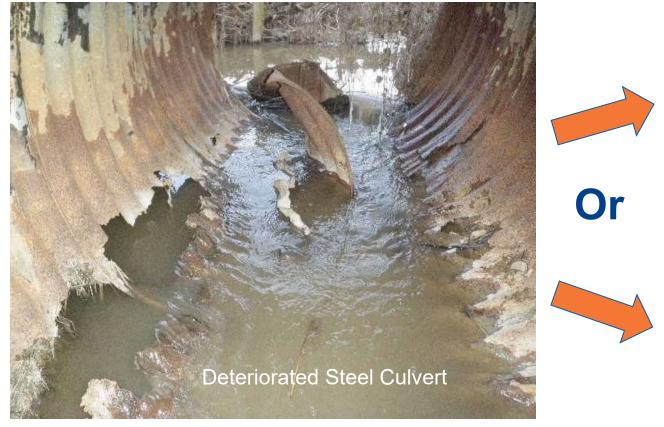


Much More Than an Aesthetic Treatment: Extends Service Life

- Serves as the primary protective element against corrosion
- Corrosion of steel girders is the leading cause of bridge replacement
- Paint can extend service lives of steel elements by 15 to 20 years

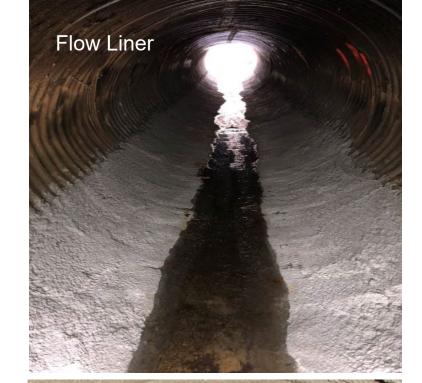


Types of Work: Rehabilitating Culverts



Culverts

May receive flow liner or full liner depending on condition (20 years additional service life)







Estimated Impact to Needs-Based Funding Distribution

District	Current Percentage (no cusp bridges)	Estimated New Percentage (includes cusp bridges)
Bristol	13.4%	11.6%
Culpeper	6.0%	6.2%
Fredericksburg	9.1%	8.1%
Hampton Roads	17.5%	17.5%
Lynchburg	7.8%	6.7%
Northern VA	9.8%	10.3%
Richmond	17.5%	17.5%
Salem	8.2%	10.9%
Staunton	10.8%	11.3%

Needs will be updated in Summer 2024



Recommended Prioritization Process Change for SGR Local Paving

- Current prioritization process includes a cap of \$1.5M per year per locality
- Available funding could exceed the total amount of possible allocations
- Recommend revision to allow an increase in the cap per locality if the amount of funding available for distribution in that district in a fiscal year exceeds the amount possible to allocate



Recommended Prioritization Process Change for SGR Local Paving

Hampton Roads District

~\$21M per year for SGR Local Paving 11 eligible localities:

 $11 \times \$1.5M = \$16.5M$

This leaves ~\$4.5M unavailable to allocate to projects each year

- VDOT is actively working with eligible localities in Hampton Roads to identify additional primary extension segments up to a \$2M cap per locality
- Projects would be considered by the Board for amendment to the SYIP in July



Summary of SGR Prioritization Process Changes

- SGR Bridge
 - Conforms SGR Prioritization Process to revised Code language pertaining to eligible bridges and eligible bridge treatment types
 - Requires prioritization of all poor bridges as well as cusp bridges recommended by the State Structure and Bridge Engineer (VDOT bridges) or locality (Locality bridges)
- Separates the CTB resolution from the Prioritization Process
- Includes minor technical edits
- Eliminates outdated background language in the last approved
 State of Good Repair (SGR) Prioritization Process February 17, 2021



Summary of SGR Policy Changes

- SGR Local Paving
 - Includes language permitting an increase in the maximum allowable allocation per locality in the event the amount of funding distributed to that district in a fiscal year exceeds possible allocations based on the number of eligible localities in that district
- The draft revised prioritization process does not include any new or revised provisions not already included in another CTB Policy, federal or state code, or existing funding program requirements



Next Steps

- In July, the CTB will be requested to formally approve, by resolution, the updated SGR Prioritization Process
- In July, the CTB will be requested to formally approve, by resolution, the amendment of additional SGR Local Paving projects in the Hampton Roads District
- Implement the revised process in the FY2026-2031 SYIP update

