



BIPARTISAN INFRASTRUCTURE LAW (BIL)

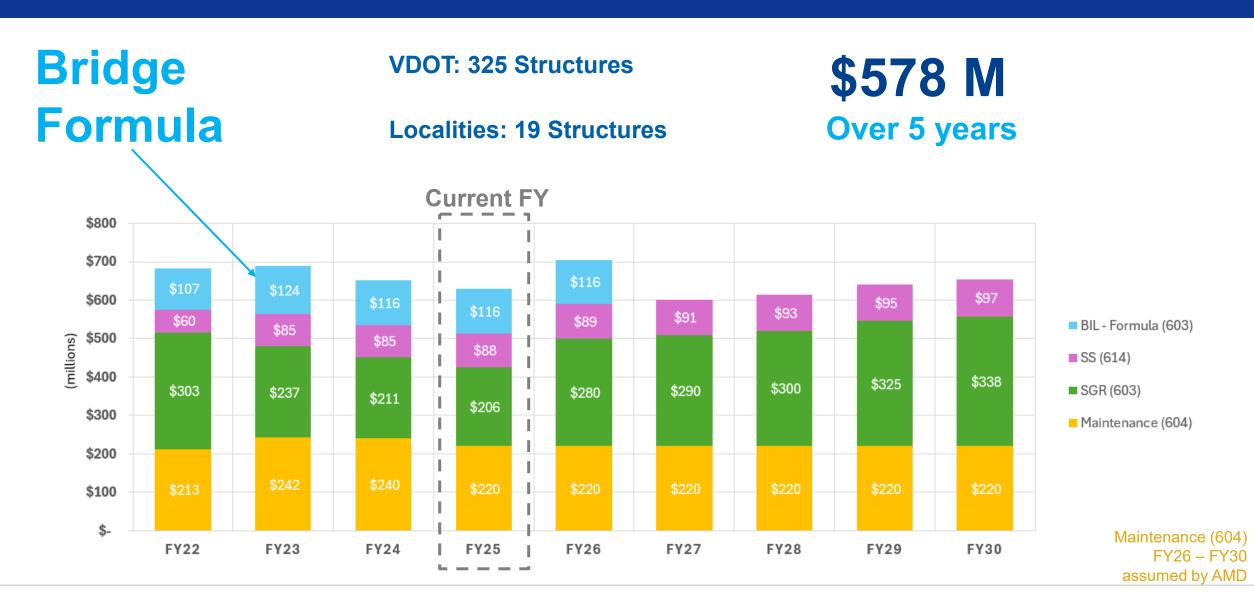
Bridge Formula Work Accomplishments

Bipartisan Infrastructure Law (BIL)

- The Infrastructure Investment and Jobs Act was signed into law on November 15, 2021
- Established the Bridge Formula Program to replace, rehabilitate, preserve, protect, and construct highway bridges
 - Focused on preservation / rehabilitation of existing bridges
 - Funds allocated based upon Needs
 - Aligns with findings of the 2019 Comprehensive Review
 - All funds must be expended by October 1, 2034



BIL - Overview





Bridge Formula Funds

Total Available: \$578 Million

Programmed Projects by Scope

	VDOT	Locality	Total
Scope	# of Structures	# of Structures	# of Structures
Structure Replacement	7	14	21
Super Replacement	2	1	3
Deck Replacement	2	1	3
Major Rehabilitation	103	2	105
Overlays	21	1	22
Painting	155		155
Steel Repairs	6		6
Culvert Rehabilitation	29		29
Total	325	19	344

Programmed Projects by Project Status

	VDOT	Locality	Total
Status	# of Structures	# of Structures	# of Structures
PE Underway/Complete	177	19	196
CN Underway	126		126
Completed	22		22
Total	325	19	344

Programmed Projects by District

	VDOT	Locality	Total
Scope	# of	# of Structures	# of Structures
	Structures	Structures	Structures
Bristol	53	2	55
Salem	20	4	24
Lynchburg	26		26
Richmond	28	4	32
Hampton Roads	63	3	66
Fredericksburg	9	1	10
Culpeper	1		1
Staunton	83	2	85
Northern Virginia	42	3	45
Total	325	19	344

Bridge Formula - Work Being Performed





Joint Elimination

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









Steel Repairs

- 50 Years of additional service life when joints above are properly addressed to protect the repair
- Rehab is approximately 10% of replacement cost
- Must be performed before too much corrosion has occurred

Culvert Lining

- Cementitious spray liner, ½" steel lined, or partial flow liner
- May receive flow liner or full liner depending on condition (20 years additional service life)



Bridge Formula - Work Being Performed















Deck Overlays and Replacement

- Hydro-demolition provides an excellent roughened surface for bonding
- Rigid Overlays (35 Years Additional Service Life)
- Epoxy Overlays (15 Years Additional Service Life)
- Deck Replacement (50 Years Additional Service Life)

Painting

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

Pier / Column Rehabilitation

- +35 years service life when joints are properly addressed
- Removes chloride-contaminated concrete and replaces with high performance concrete



Bridge Formula – NOVA, I-495 & Dulles Access Road



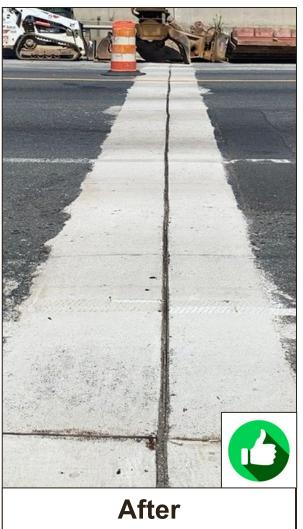






Bridge Formula – NOVA, I-495 & Dulles Access Road









Bridge Formula – NOVA, Loudon & Prince William Counties





