NORTH CAROLINA
Department of Transportation

NCDOT Bridge Update

Aaron Earwood, PE
State Bridge Construction Engineer

July 25, 2025

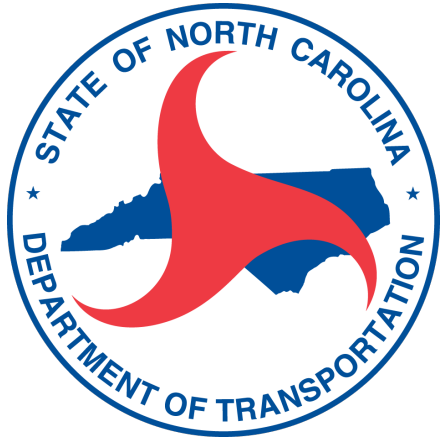
Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina

Joint Committees

Four Active Committees

- NCDOT/CAGC Joint Cooperative Committee
- NCDOT/CAGC Joint Roadway Committee
- NCDOT/CAGC Joint Structure Committee
- NCDOT/CAGC/ACEC Alternative Delivery Committee

Forum for Sharing Ideas and Discussing Issues Affecting the Industry



CarolinasAGC

AGC/NCDOT Joint Bridge Committee

AGC Members

Adam Holcomb	Dane Construction
Brian Weathersby	Sloan Construction
Chris Britton	Buckeye Bridge
Chris Powers	Lee Construction
Tanya Ball	Wright Brothers
Nathan Thomas	Smith Rowe
Erick Frazier	S.T. Wooten
Pete Distefano	Balfour Beatty Infrastructure
Dan Paulson	Blythe Construction
Justin Carter	Sanford Contractors
Kyle Wylie	Crowder Construction
Mohammed Melad	Zachry Construction
Andy Jenkins	Vecellio and Grogan
Caleb Ellis	Fred Smith Company
Larry Cagle	APAC
Adrian Price	Flatiron
Mark Newman	NHM
Jerrad Stewart	Conti Enterprises
Brett Dietrich	Lanford Brothers
Thomas Meider	Lane Construction
Seth Rowney	Thalle Construction
Kevin Charrier	Branch Civil

AGC Co-Chairman: Victor Barbour

NCDOT Members

Aaron Earwood	NCDOT Construction
Aaron Griffith	NCDOT Construction
Tyler Rogers	NCDOT Construction
Patrick Cheeves	NCDOT Construction
Randy Hall	NCDOT Construction
Troy Brooks	NCDOT Construction
Brian Skeens	NCDOT Construction
Liam Shannon	NCDOT Construction
Gichuru Muchane	NCDOT Structures Management
James Bolden	NCDOT Structures Management
Nick Pierce	NCDOT Structures Management
Trey Carroll	NCDOT Structures Management
Todd Whittington	NCDOT Materials & Tests
Brian Hunter	NCDOT Materials & Tests
Natalie Bravo	NCDOT Materials & Tests
Matthew Alexander	NCDOT Geotechnical
Scott Hidden	NCDOT Geotechnical
Tom Santee	NCDOT Geotechnical
Dan Muller	FHWA

NCDOT Co-Chairman: David Snoke (State Structures Engineer)

NCDOT Construction Unit

Visit Our Website | (919) 707-2400

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Bridge Construction Engineers

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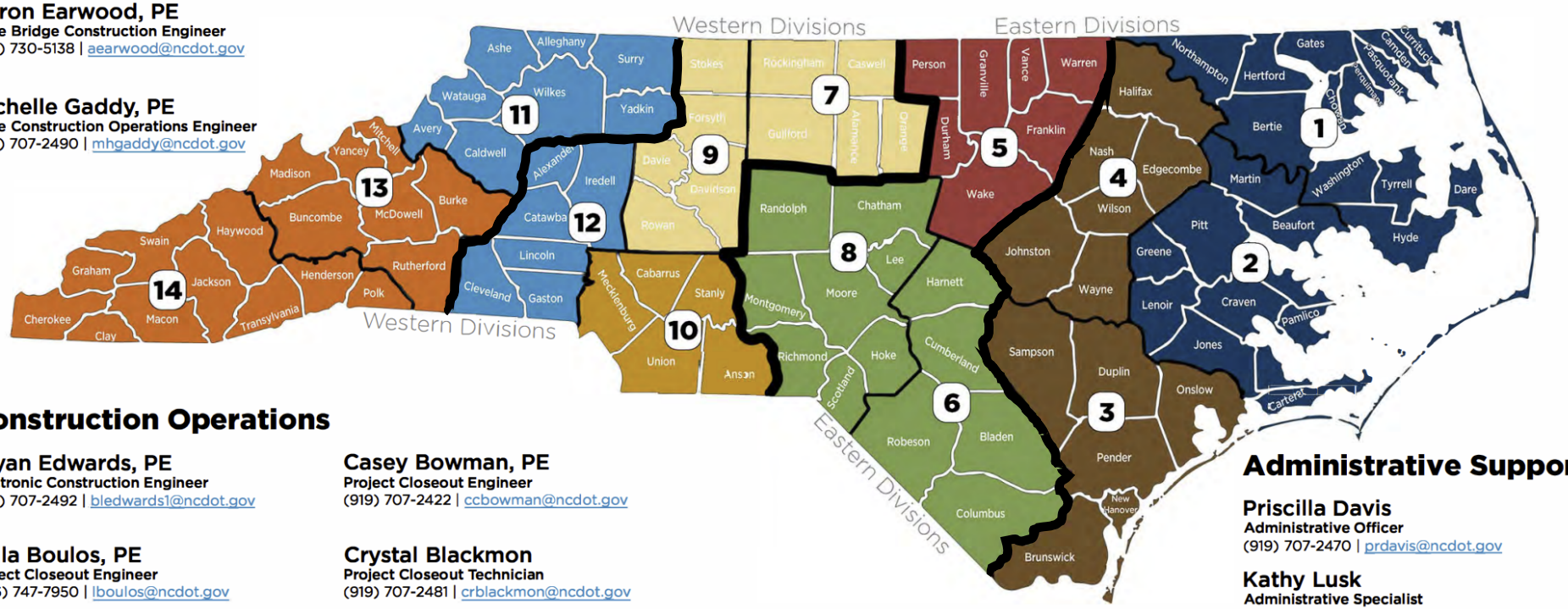

Construction Operations

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Bridge Program

Condition Trend Totals

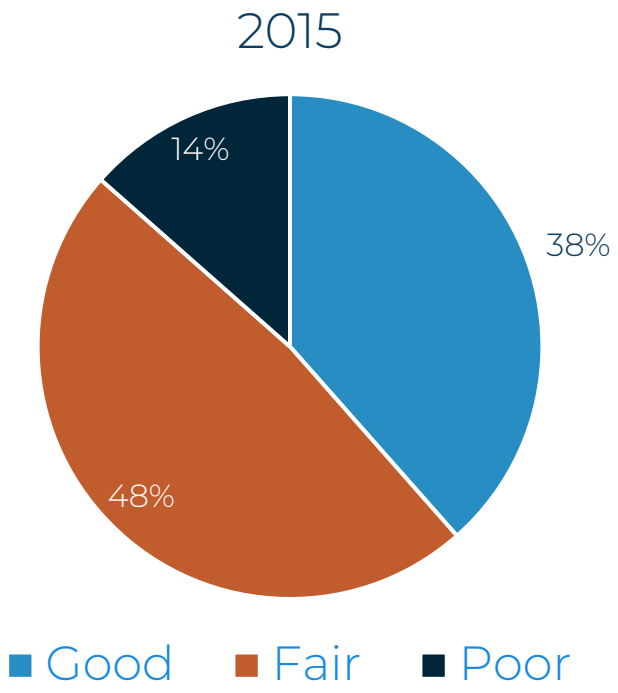
Bridge Condition	2024 Count	2025 Count
Good	6,267	6,369
Fair	6,346	6,231
Poor	1,135	1,208
Total:	**13,748**	**13,808**
Bridges in Poor condition increased from 8.3% to 8.7%		
155 New/Replaced Bridges in 2024		

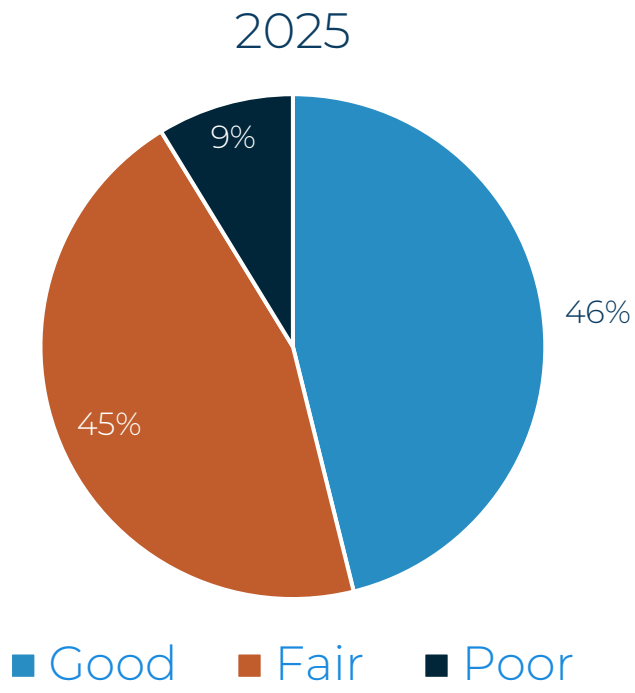
Bridge Condition

2015		
13.5% Poor		
System	%	#
Interstate	4.1%	44
Primary	9.0%	404
Secondary	16.7%	1,374

Current Condition		
8.7% Poor		
System	%	#
Interstate	2.7%	34
Primary	6.1%	208
Secondary	10.6%	966

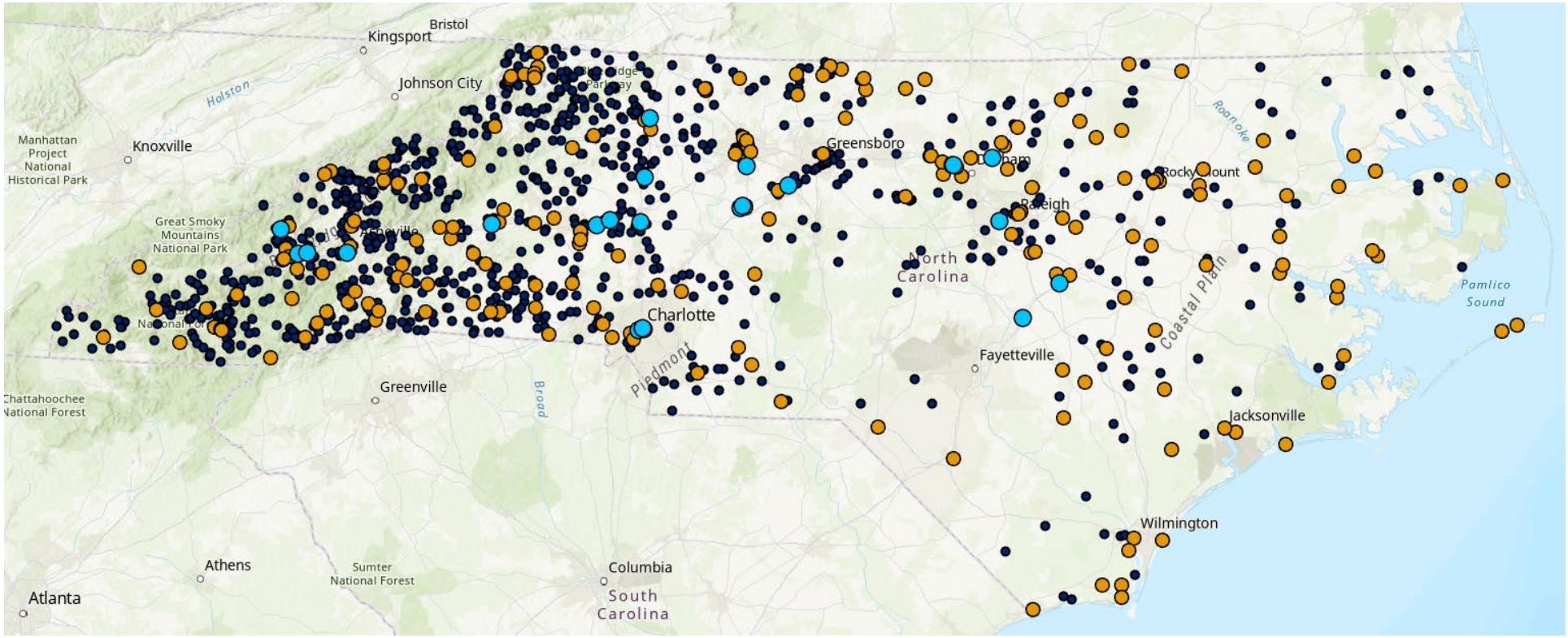
Bridge Condition



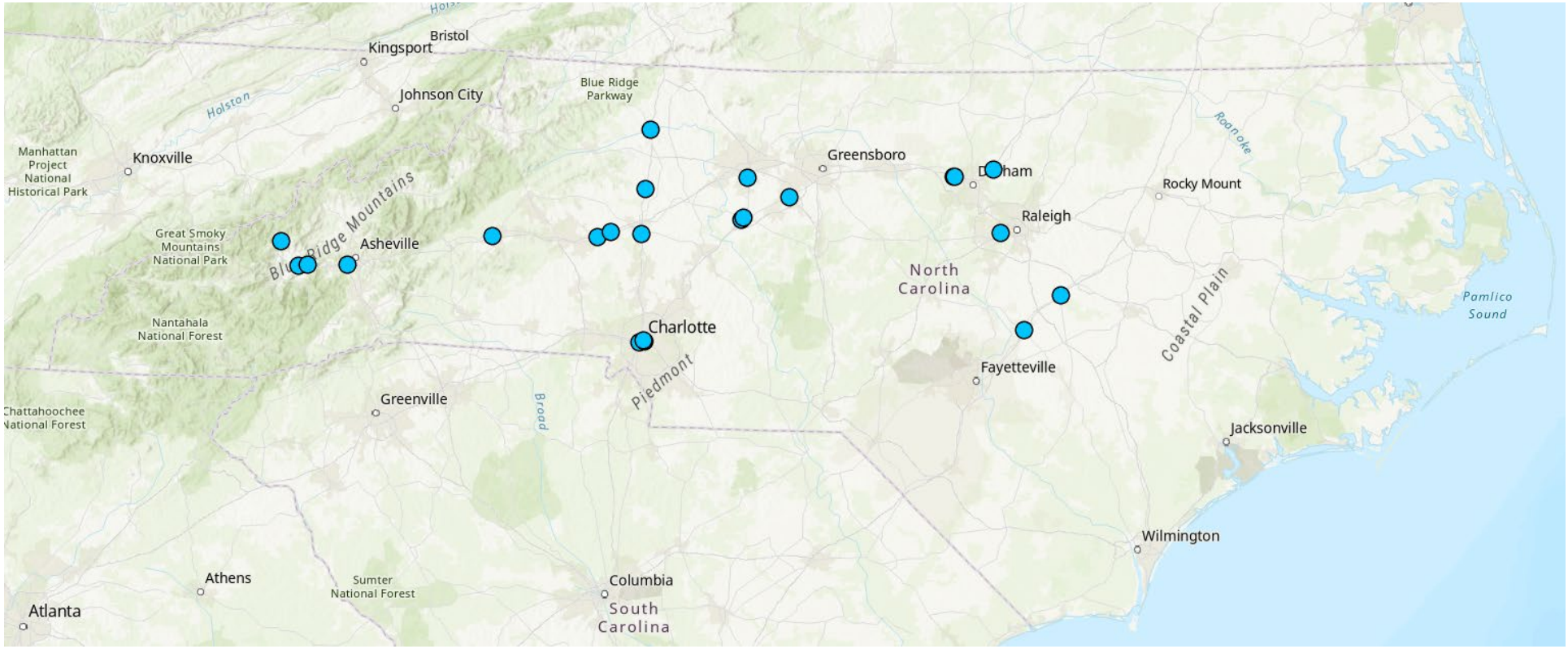


Poor Condition Bridge Map – By System

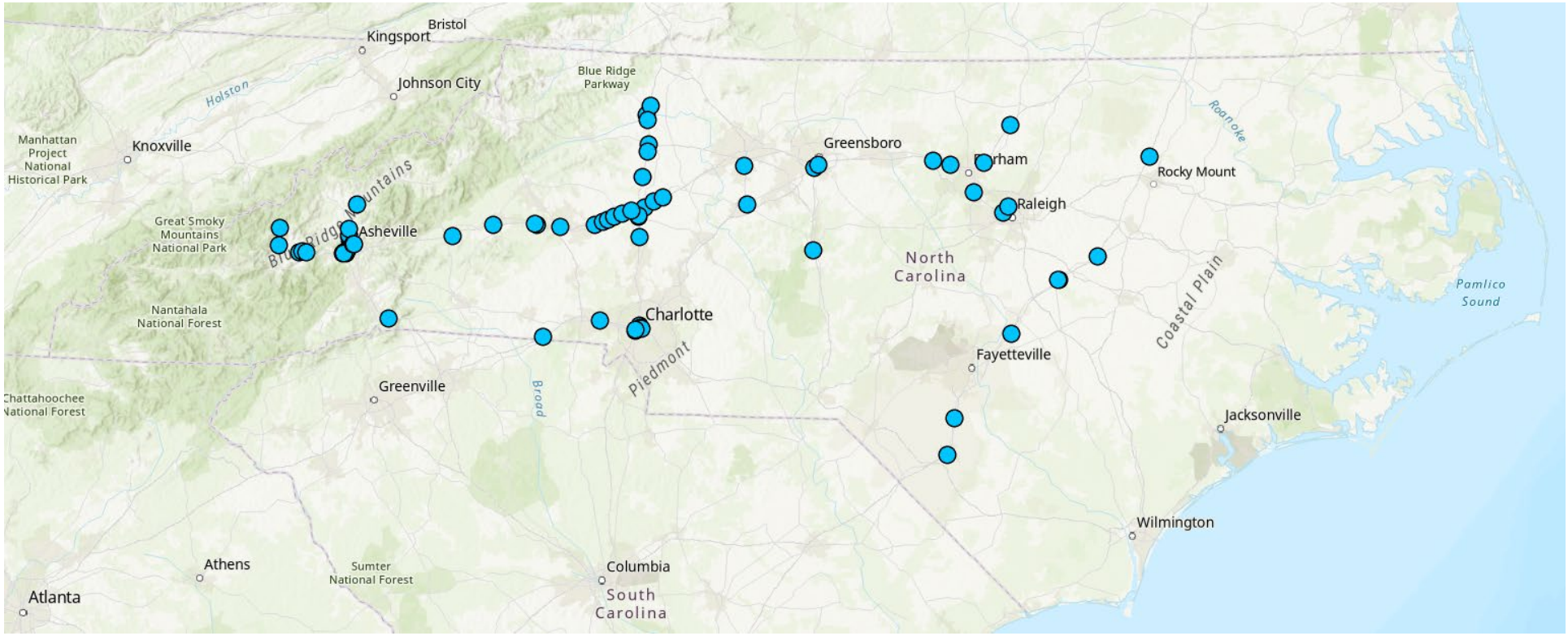
● Secondary ● Primary ● Interstate



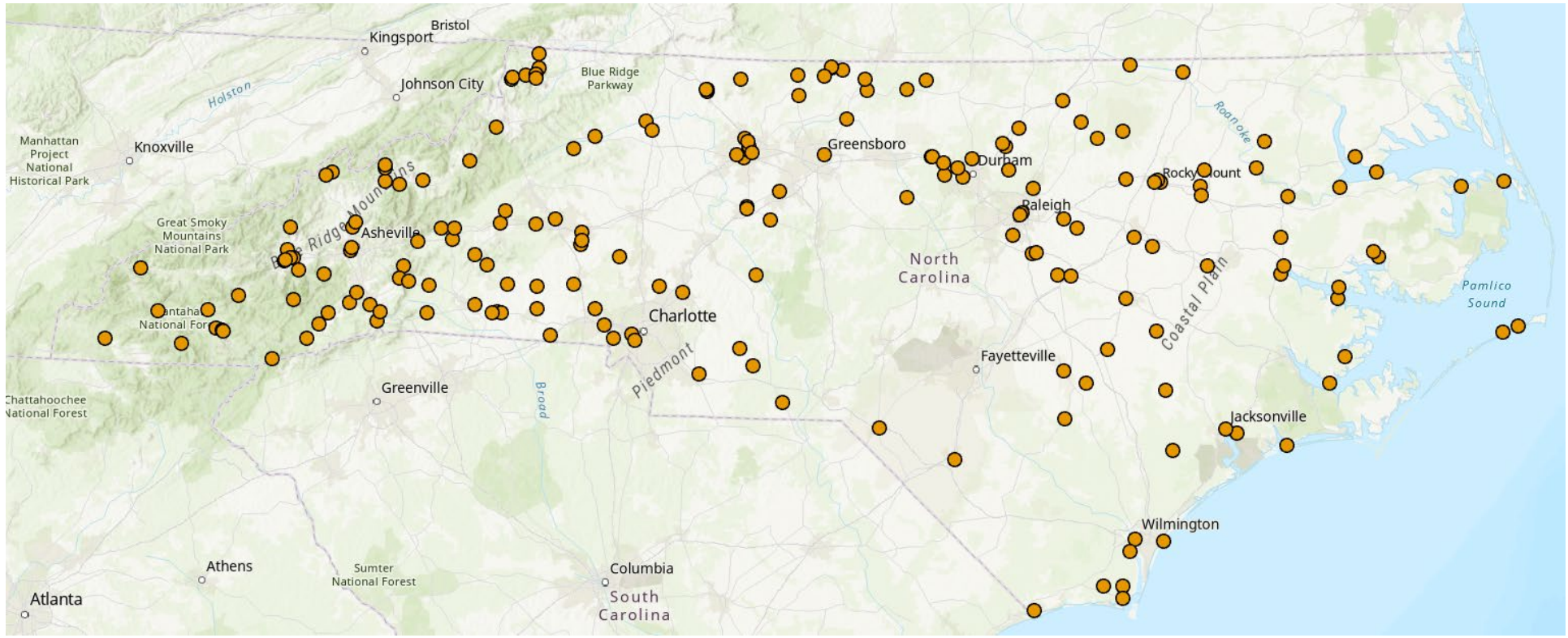
Interstate Bridge Map – Current Poor Condition
34 Structures



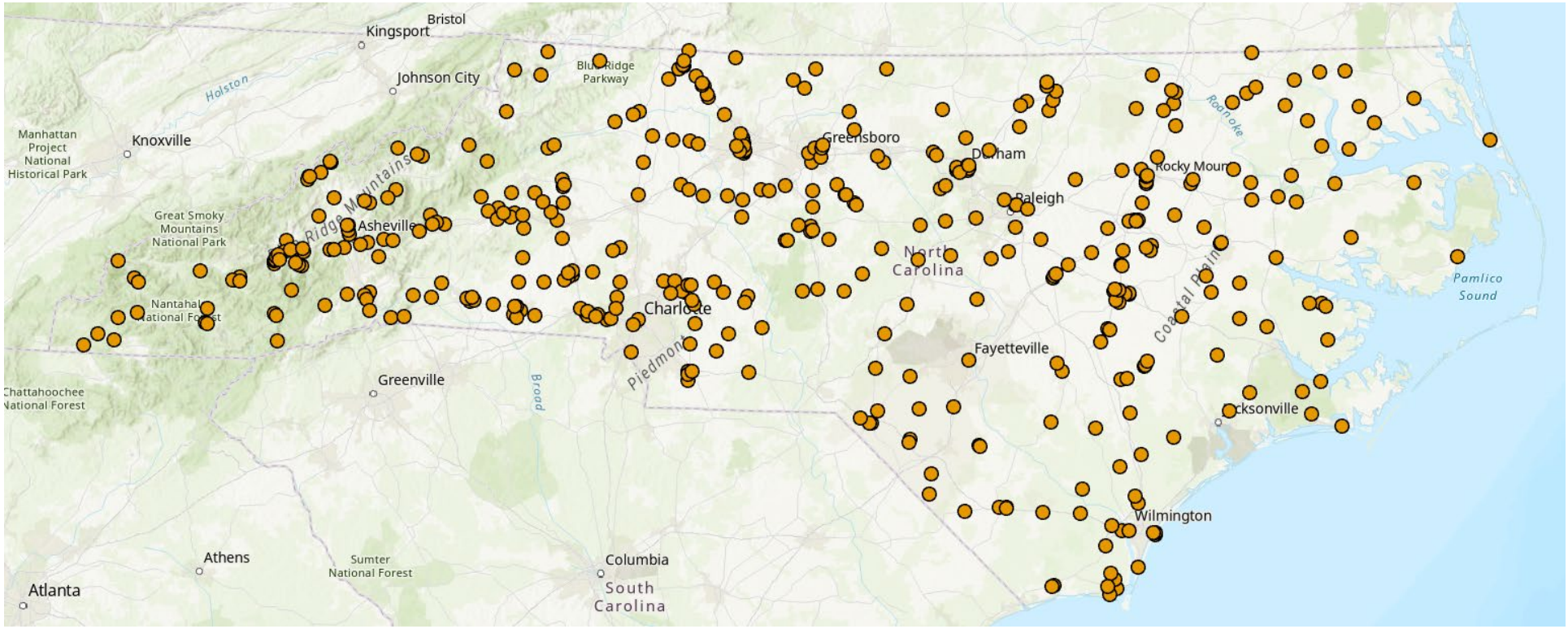
Interstate Bridge Map – Projected Poor Condition Within 10 Years 102 Structures



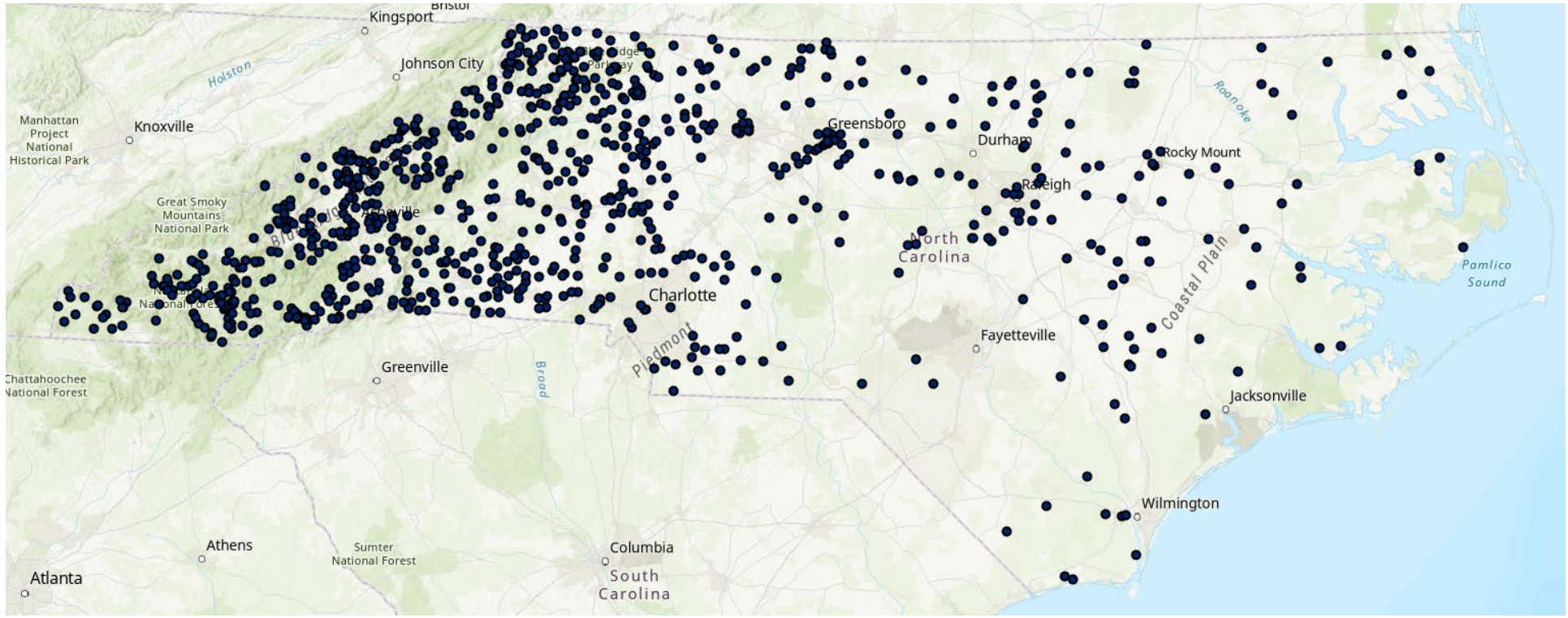
Primary Bridge Map – Current Poor Condition
208 Structures



Primary Bridge Map – Projected Poor Condition Within 10 Years
486 Structures

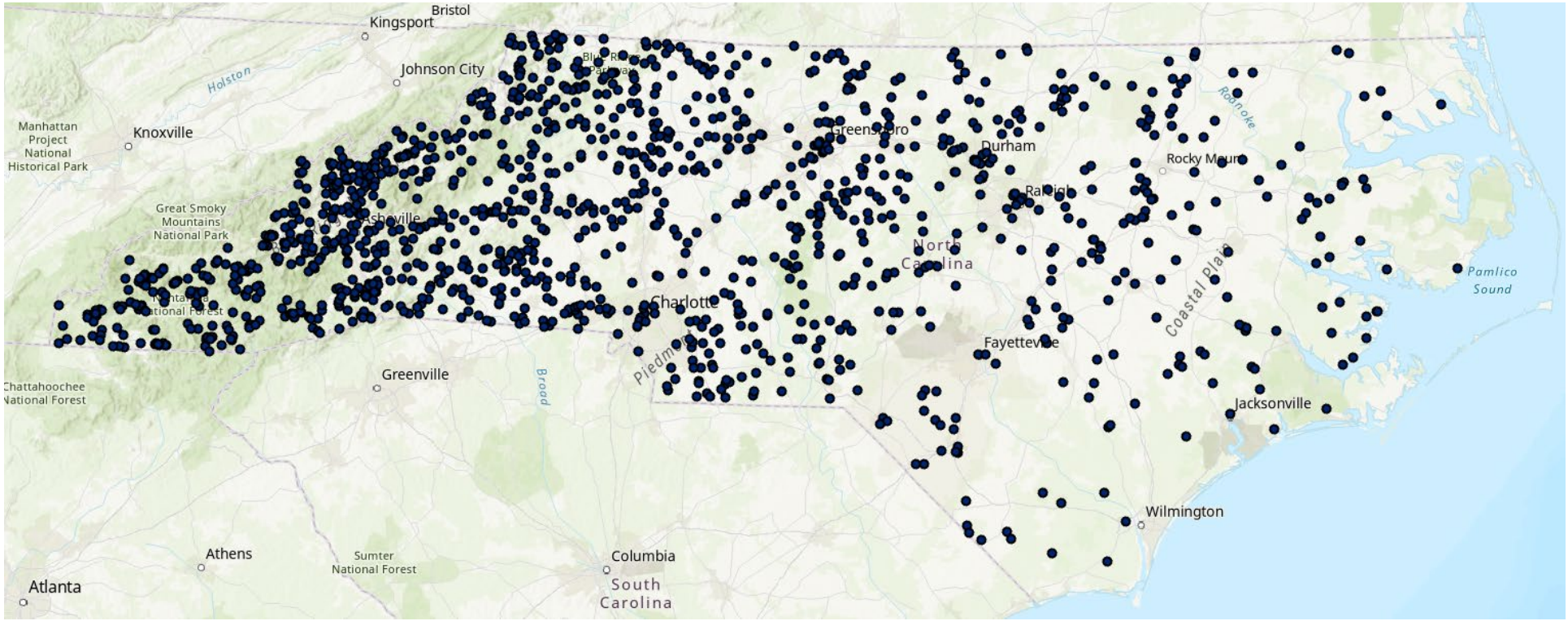


Secondary Bridge Map – Current Poor Condition
966 Structures

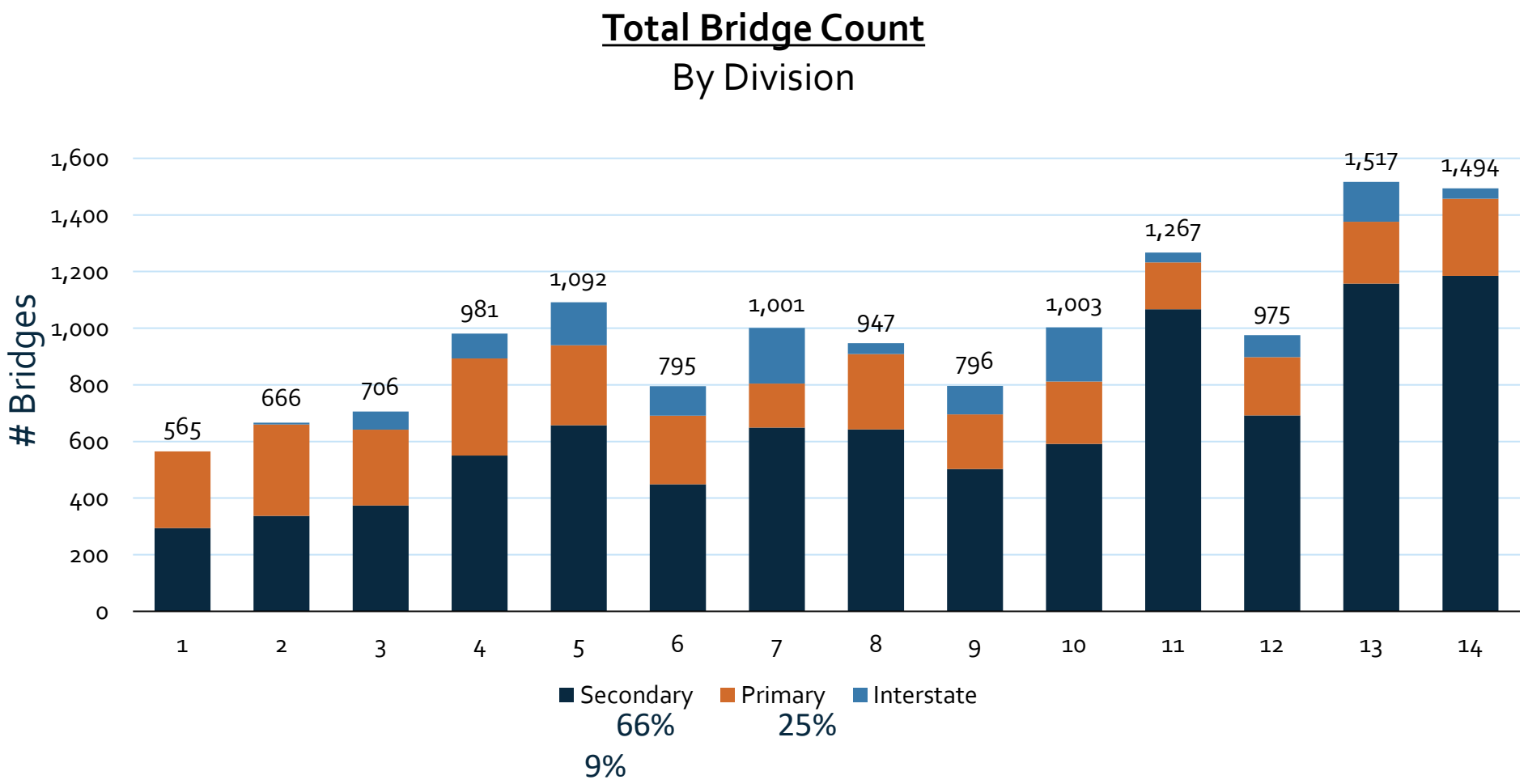


Secondary Bridge Map – Projected Poor Condition Within 10 Yrs

1375 Structures

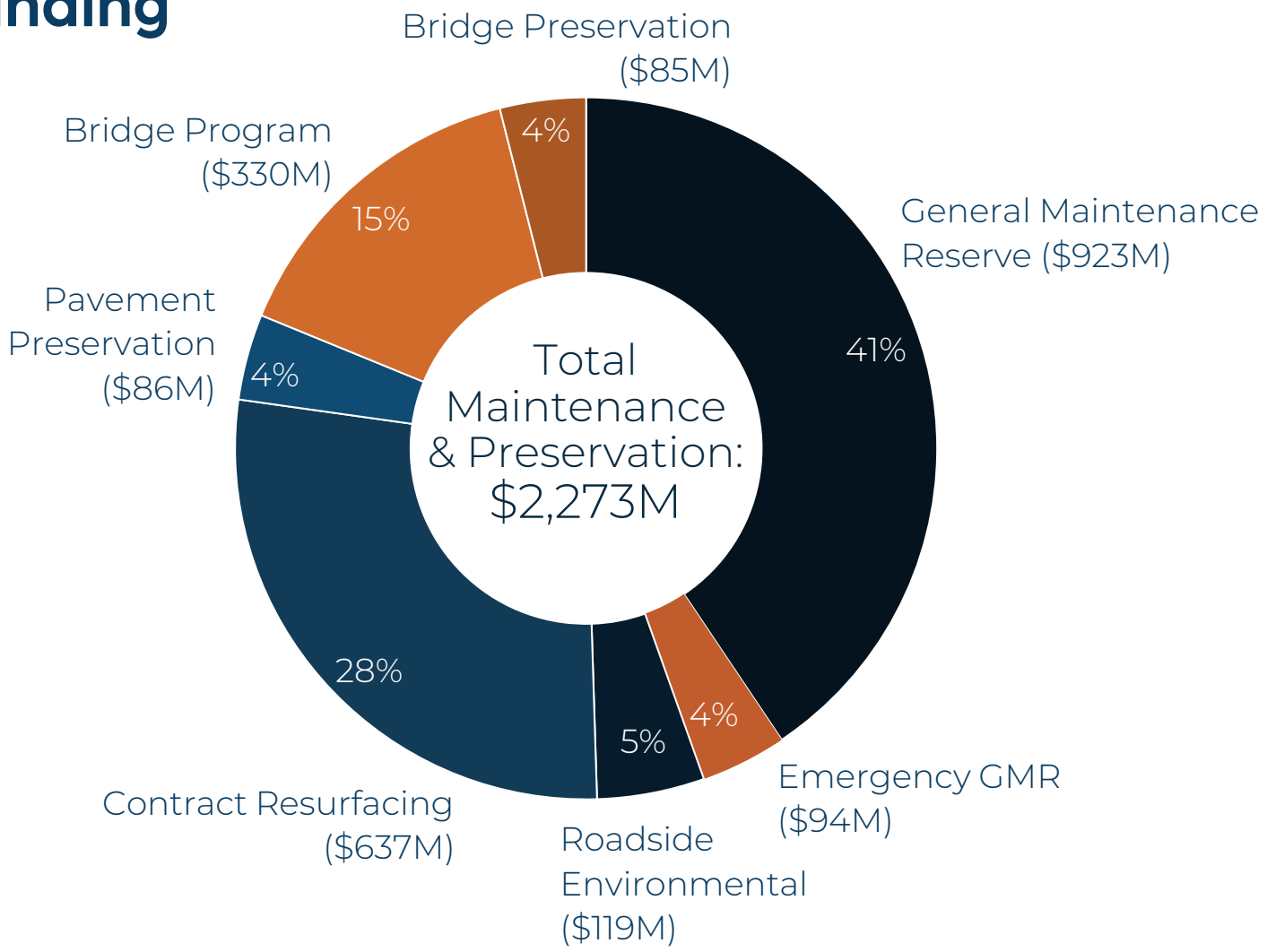


NCDOT Maintains 13,805 Bridges Statewide



Maintenance Funding

FY 2025

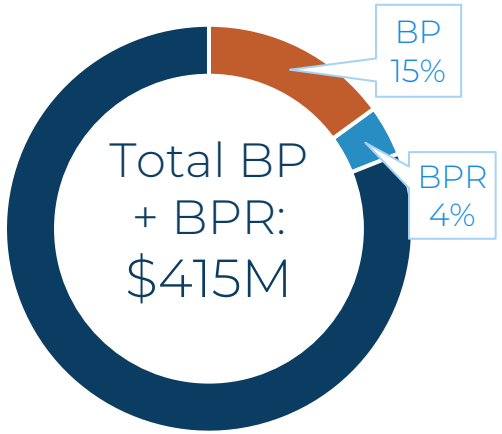


Allocations based on Year 2 of 2025 Biennium Budget (FY 25 includes NR funds)

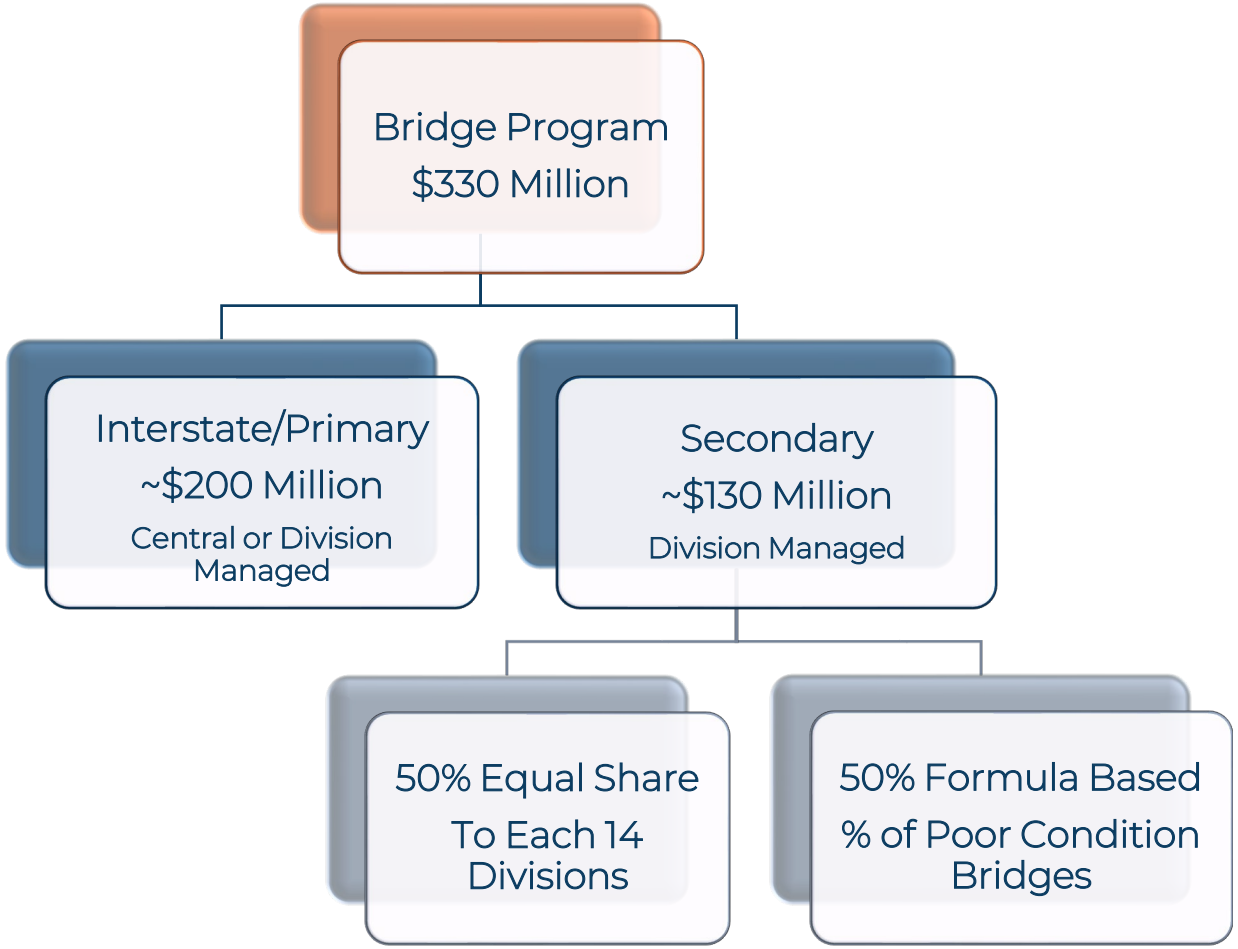
Bridge Program and Bridge Preservation

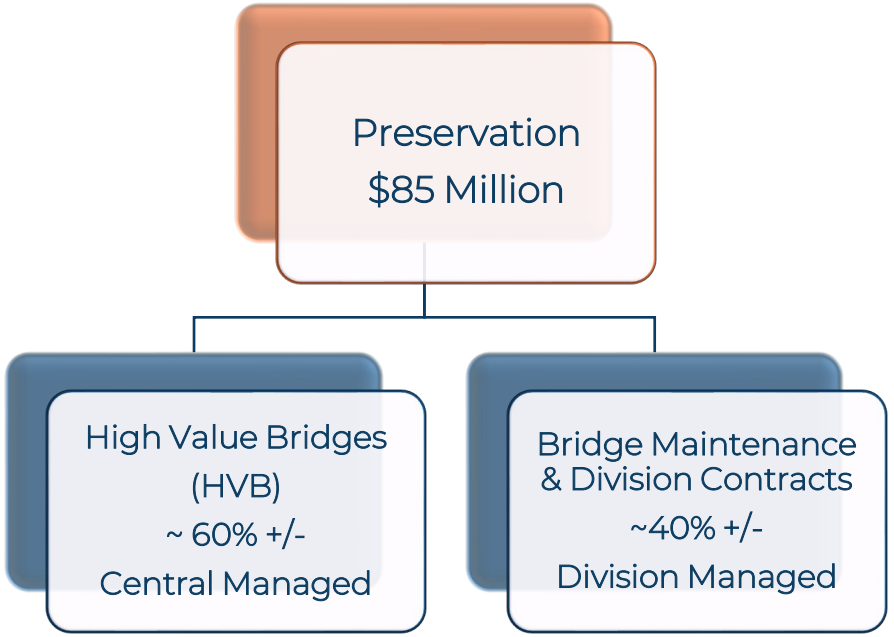
- Bridge Program
  - $330M
  - §136-76.2
  - Replacing poor condition bridges
- Bridge Preservation
  - $85M
  - Preventative maintenance and critical finds
  - Preservation of High Value Bridges (HVB)

Bridge program and bridge preservation is approximately 20% of the budget for FY 2025.



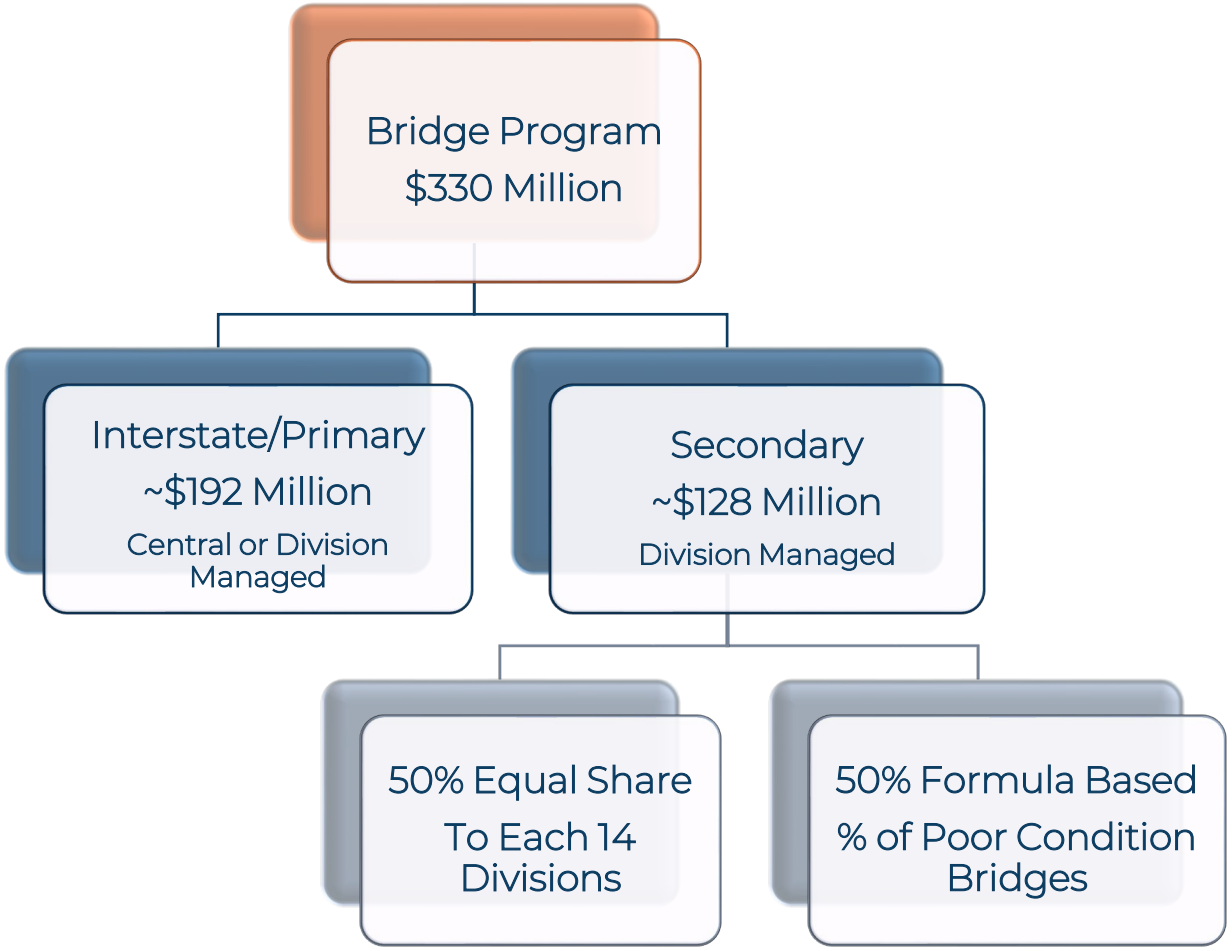
Bridge Program – State Funded

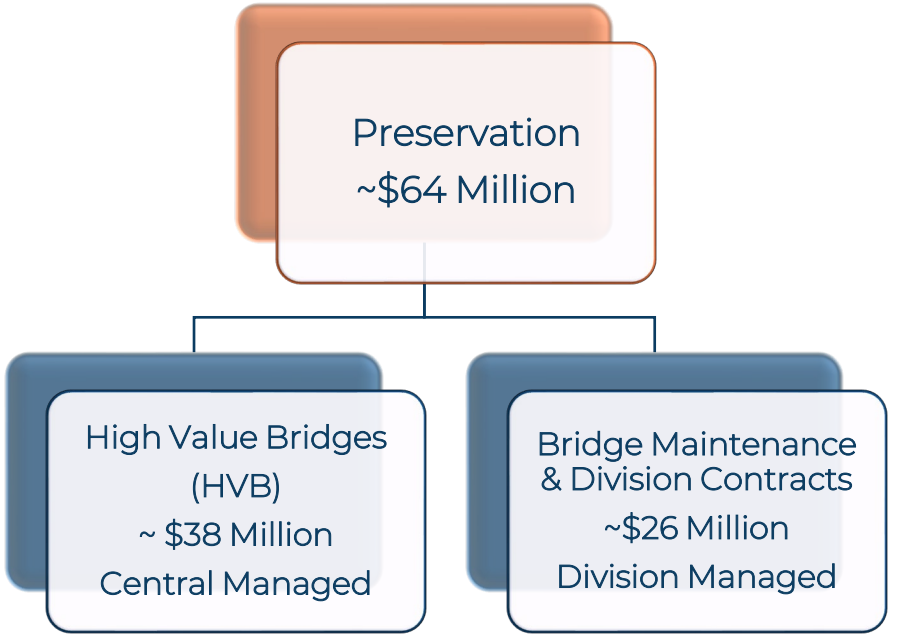




- *HVB = Replacement Cost Over $20M*

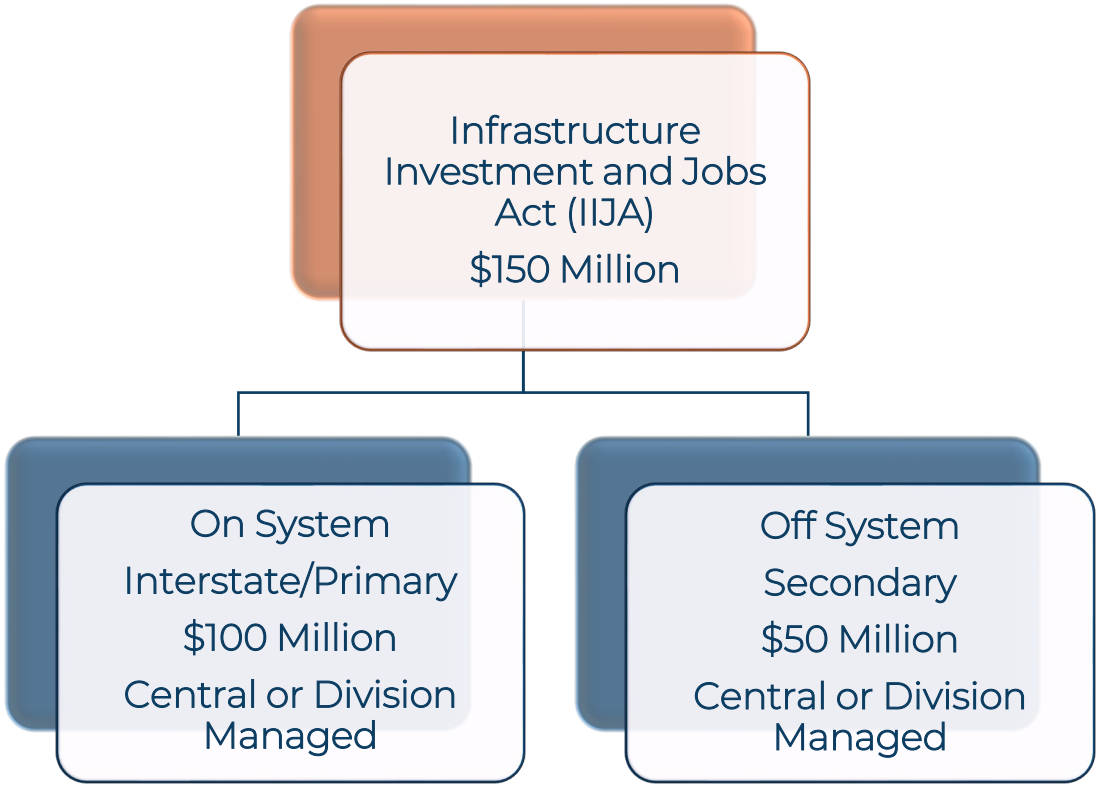
Bridge Program – State Funded





- *HVB = Replacement Cost Over $20M*

Bridge Program – Federal Funded

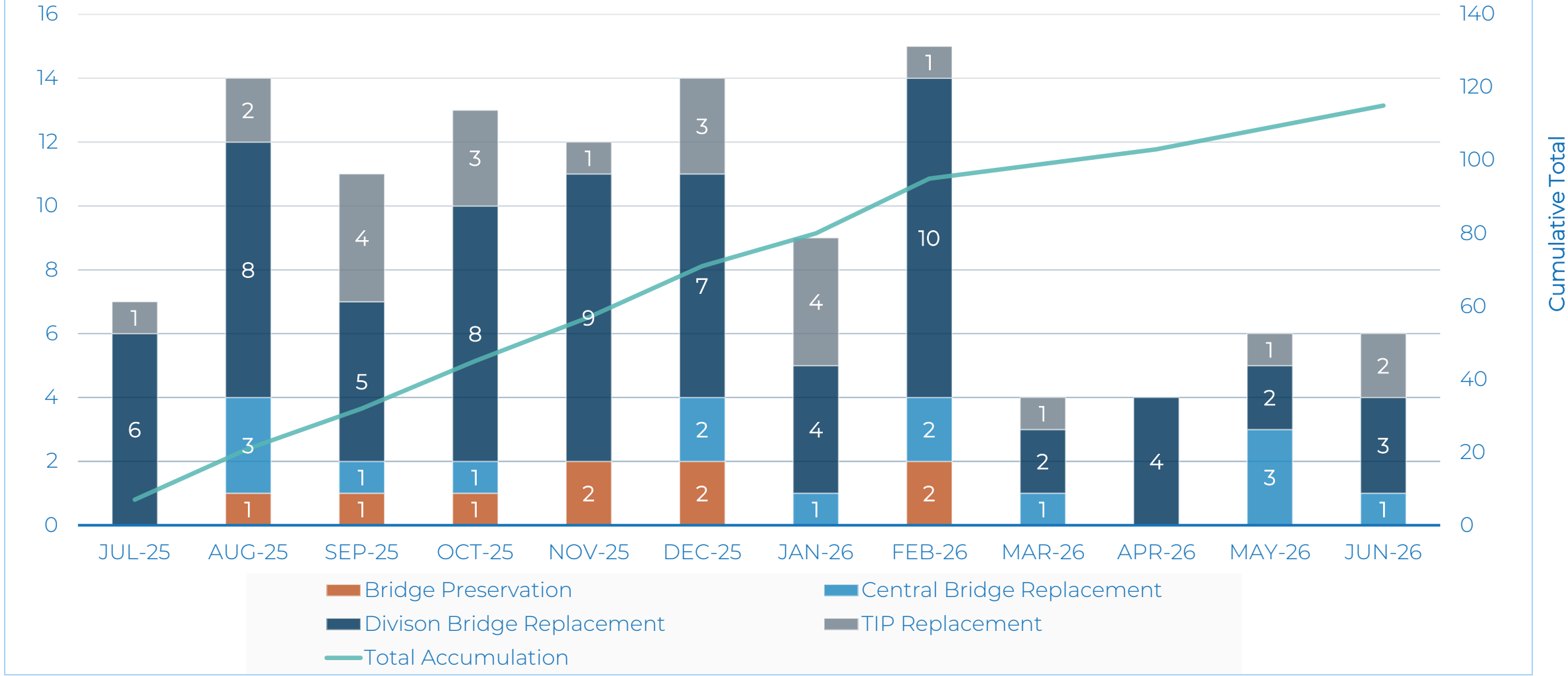


Bridge Program – FY 2026 Division Breakdown

Division	Schedule III	Schedule IV	Schedule V	Schedule VI
	Contract Resurfacing	Pavement Preservation	Bridge Program	Bridge Preservation
1	22,156,002	1,252,186	5,364,057	1,956,342
2	20,961,193	1,310,373	6,310,847	1,560,147
3	23,927,128	1,487,880	5,543,678	2,091,340
4	27,432,733	1,695,464	8,799,717	1,758,674
5	28,567,286	1,769,150	8,582,000	2,291,292
6	21,752,017	1,729,929	5,473,973	1,483,330
7	21,564,148	1,448,935	10,527,703	1,989,701
8	26,072,842	1,787,961	8,135,547	1,526,237
9	19,604,955	1,339,866	10,033,108	1,564,729
10	23,278,042	1,411,572	7,961,339	2,011,218
11	16,839,736	1,486,587	12,147,571	1,619,115
12	22,440,752	1,594,953	12,037,348	1,635,237
13	17,291,484	1,310,338	15,736,548	2,141,227
14	17,251,682	1,185,953	11,380,614	1,944,608
Subtotal	***$309,140,000***	***$20,811,147***	***$128,034,050***	***$25,573,197***
Cashflow Repayment	315,000,000	42,900,134	0	0
Asset Maintenance & Operations	5,860,000	0	0	0
Research and Development	0	0	0	0
State and Federal Obligation	0	0	10,000,000	0
Central Distribution	0	0	192,051,074	38,359,796
Subtotal	***$320,860,000***	***$42,900,134***	***$202,051,074***	***$38,359,796***
Grand Total	**$630,000,000**	**$63,711,281**	**$330,085,124**	**$63,932,993**

Twelve Month Let List - Bridge

129 Individual Bridges Affected by FY26 Bridge Projects



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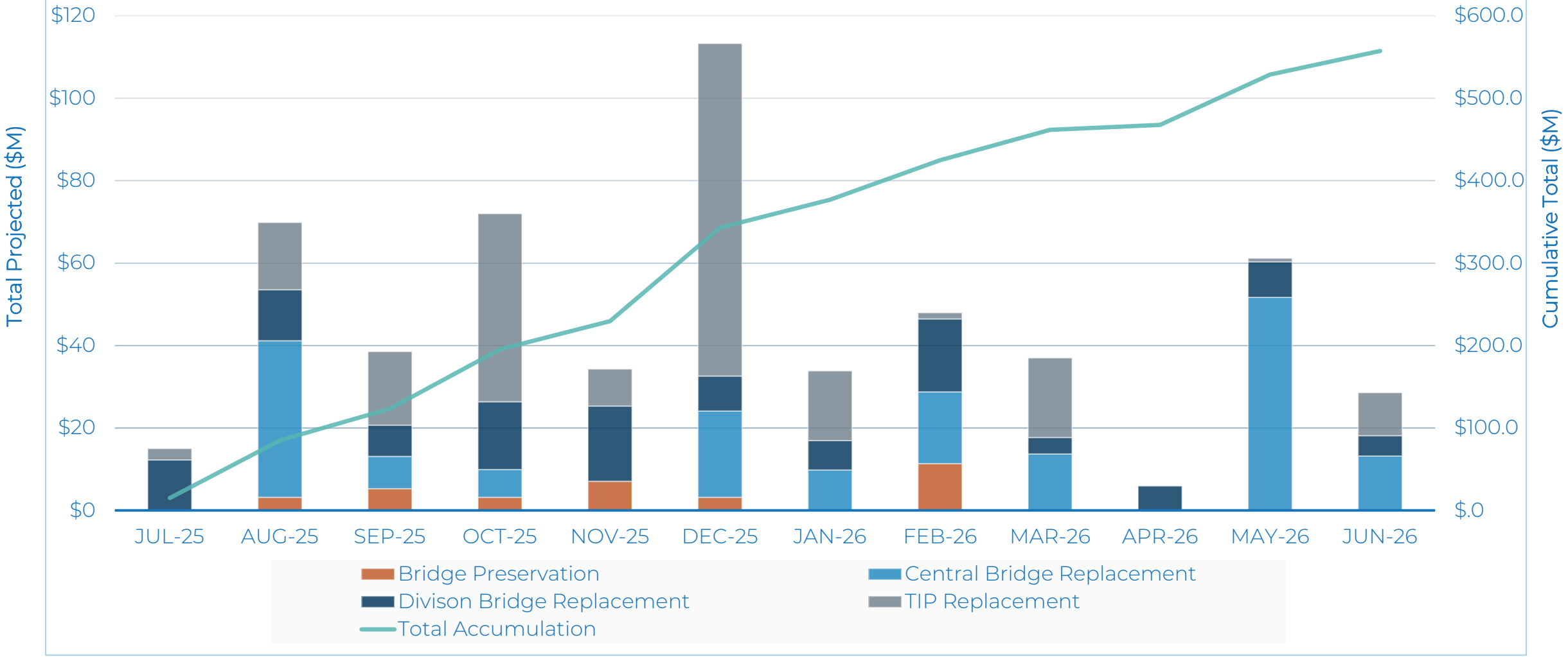
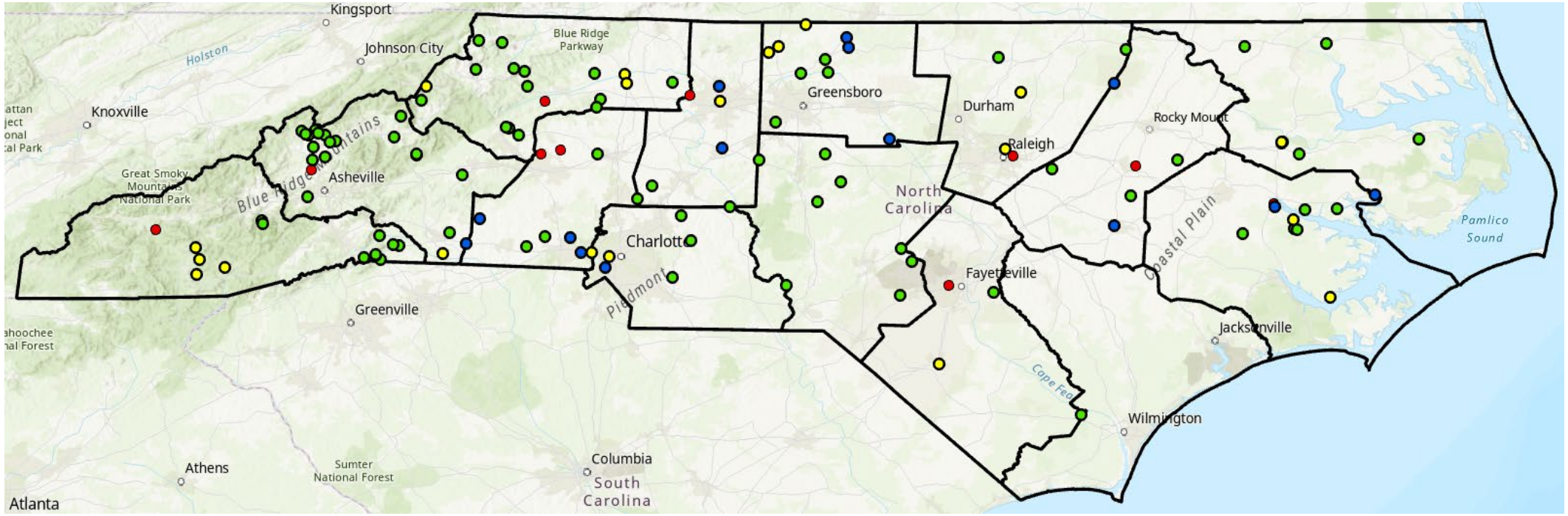


Anticipated Bridge Lettings

	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Total
Bridge Preservation		1	1	1	2	2		2					**9**
Central Bridge Replacement		3	1	1		2	1	2	1		3	1	**15**
Division Bridge Replacement	6	8	5	8	9	7	4	10	2	4	2	3	**68**
TIP Bridge Replacement	1	2	4	3	1	3	4	1	1		1	2	**23**
Total	**7**	**14**	**11**	**13**	**12**	**14**	**9**	**15**	**4**	**4**	**6**	**6**	**115**

	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Total ($M)
Bridge Preservation		$3.2	$5.3	$3.2	$7.1	$3.2		$11.4					**$33.3**
Central Bridge Replacement		$38.0	$7.8	$6.7		$20.9	$9.8	$17.4	$13.7		$51.7	$13.2	**$179.2**
Division Bridge Replacement	$12.3	$12.4	$7.6	$16.5	$18.3	$8.5	$7.2	$17.7	$4.0	$5.9	$8.7	$5.0	**$123.8**
TIP Bridge Replacement	$2.8	$16.3	$17.9	$45.6	$9.0	$80.7	$16.9	$1.5	$19.3		$0.8	$10.4	**$221.1**
Total ($M)	**$15.0**	**$69.9**	**$38.6**	**$72.0**	**$34.3**	**$113.3**	**$33.9**	**$48.0**	**$37.0**	**$5.9**	**$61.2**	**$28.6**	**$557.4**

FY 26 Bridge Lettings
By Funding Source

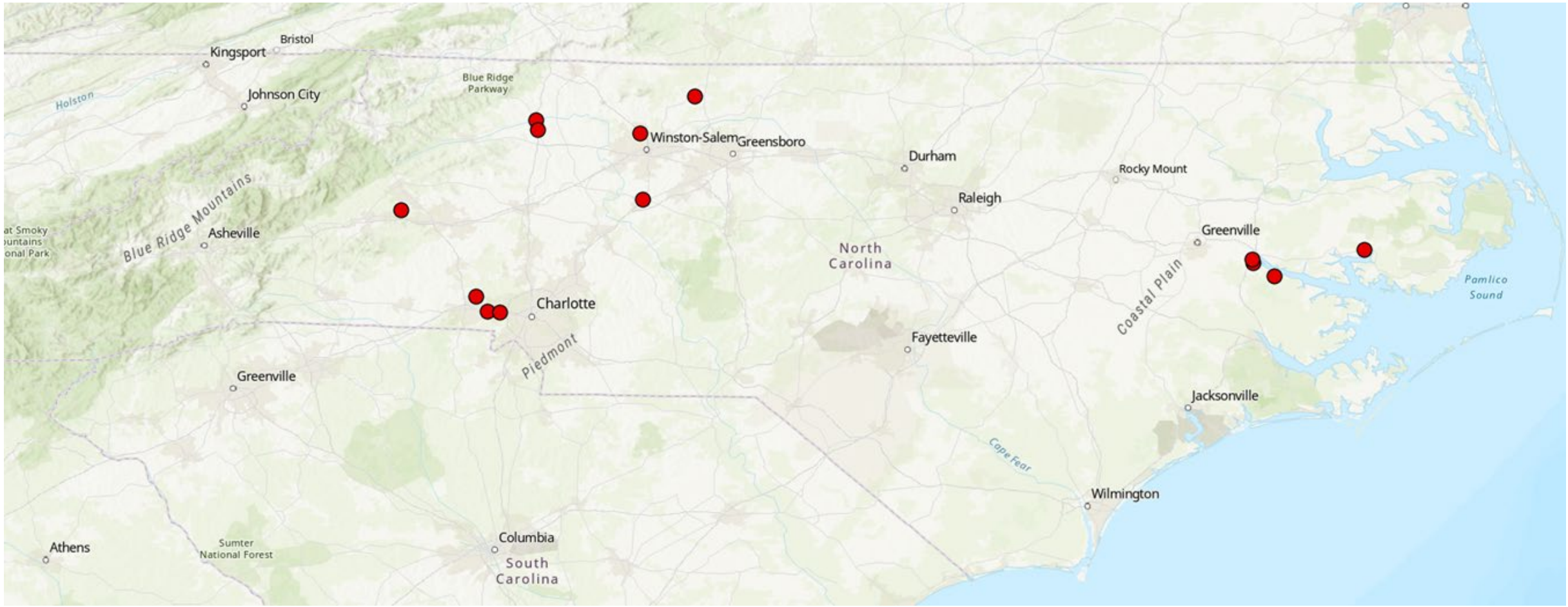


● Bridge Preservation ● Division Bridge Replacement ● Central Bridge Replacement ● TIP

BRIDGE PROJECTS > $10M SCHEDULED FROM JULY 2025 TO JUNE 2026

Let Date	TIP #	County	Division	Description	Latest Estimate
8/19/2025	B-5716	ROCKINGHAM	7	780140 - ON: SR1138 - OVER: DAN RIVER	$13,700,000
8/19/2025	R-3430B	BURKE	13	110010- ON: SR1001 -OVER: CATAWBA RIVER	$22,900,000
10/21/2025	B-5614	BEAUFORT	2	060009 - ON SR1112 OVER BLOUNTS CREEK	$17,200,000
10/21/2025	B-5831	SURRY	11	850006 - ON: I-77 NBL - OVER: NC268,SOU.RR,YADKIN RVR.	$24,000,000
12/16/2025	B-5857	GASTON	12	350082 - ON: US29 & US74 - OVER: SOUTH FORK CATAWBA RIVER	$11,800,000
12/16/2025	B-6051	GASTON	12	350091 - ON: US29,US74 - OVER: CATAWBA RIVER	$76,000,000
2/17/2026	15BPR.137	BEAUFORT	2	060353 - ON US017 OVER TAR RIVER	$10,400,000
3/17/2026	B-5833	YADKIN	11	980029 - ON: US21BUS - OVER: I-77	$19,300,000
3/17/2026	BR-0019	GASTON	12	350056 - ON: NC275 - OVER: S. FORK CATAWBA RIVER	$13,700,000
5/19/2026	BR-0004	BEAUFORT	2	060066 - ON US264 OVER PUNGO RIVER	$17,000,000
5/19/2026	BR-0140	DAVIDSON	9	280087 - ON: I85N.BUS,US29,US70 - OVER: WSSB RAILROAD 280089 - ON: I85BUSS,US29,US70 - OVER: WSSB RR	$14,900,000
5/19/2026	BR-0168	FORSYTH	9	330289 - ON: SR4000 - OVER: US52	$19,800,000
6/16/2026	BR-0005	BEAUFORT	2	060075 - ON NC33 OVER CHOCOWINITY CREEK	$13,200,000
July 2025 to June 2026 TOTAL COST ESTIMATE FOR BRIDGES > $10M					$273,900,000

BRIDGE PROJECTS > $10M SCHEDULED FROM JULY 2025 TO JUNE 2026



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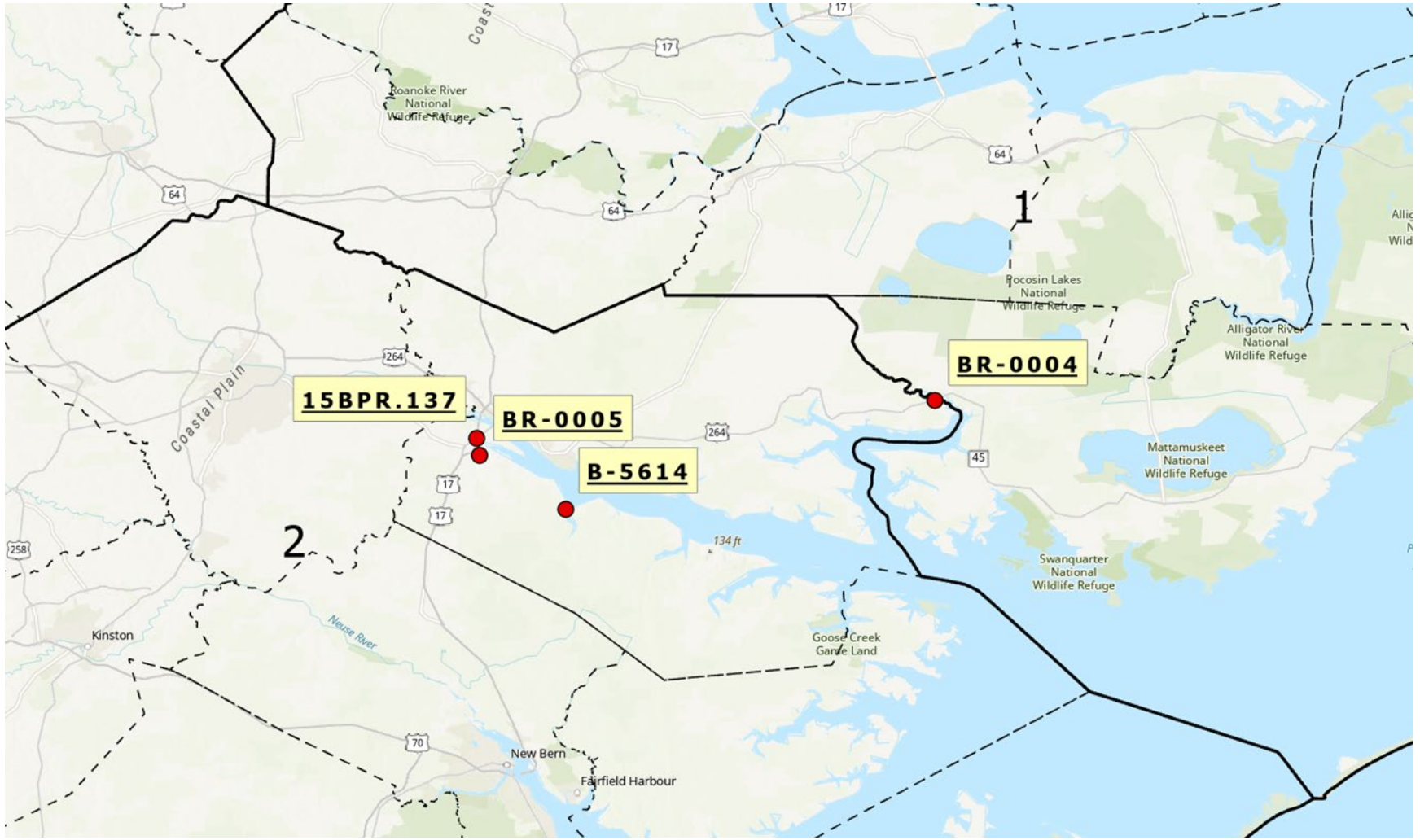

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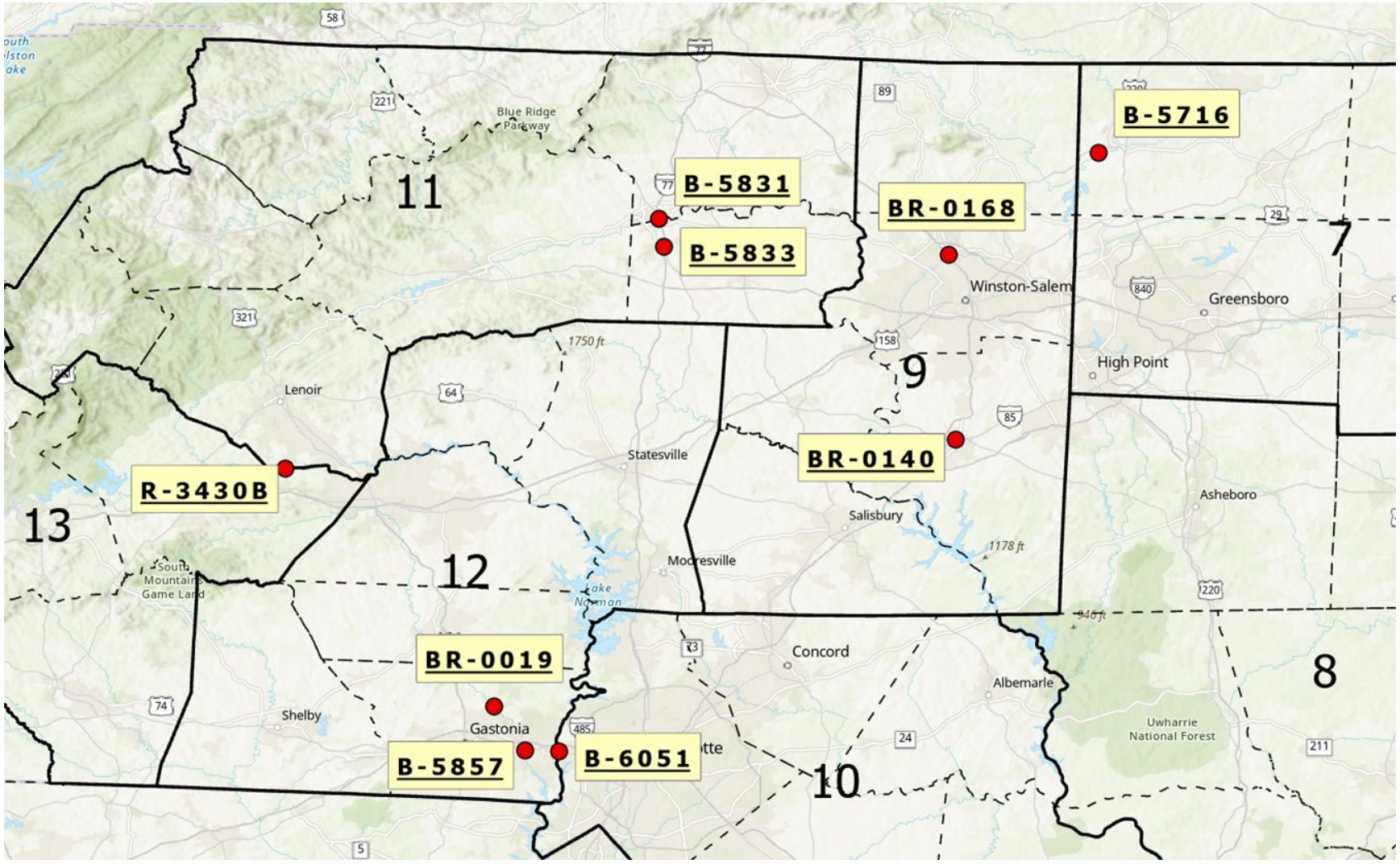
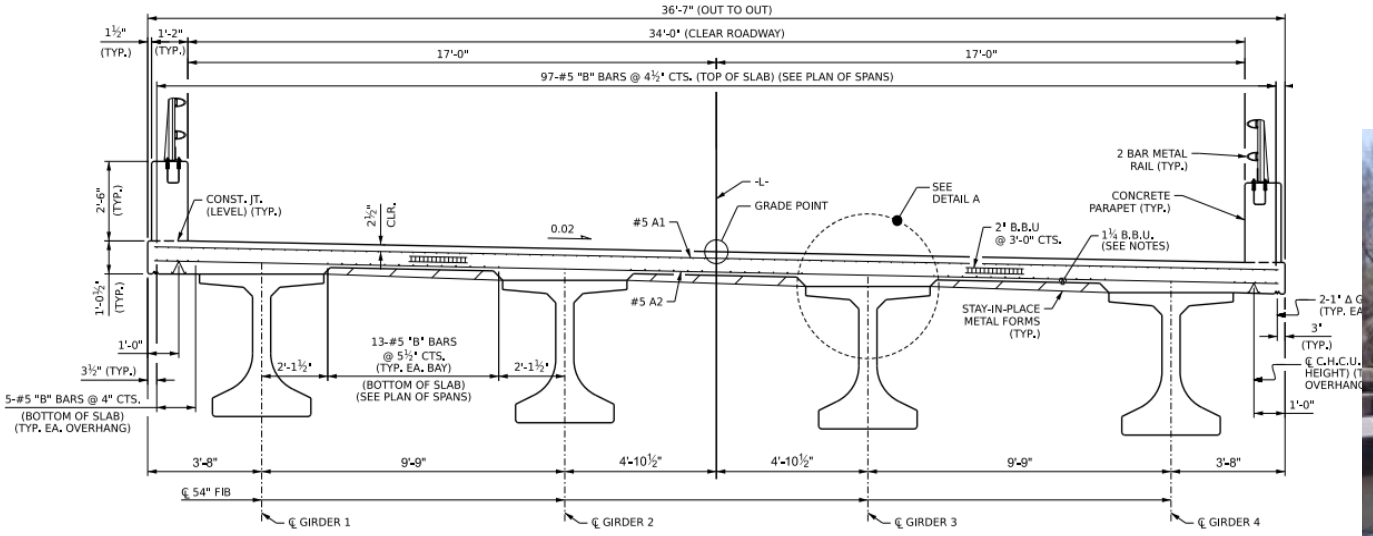
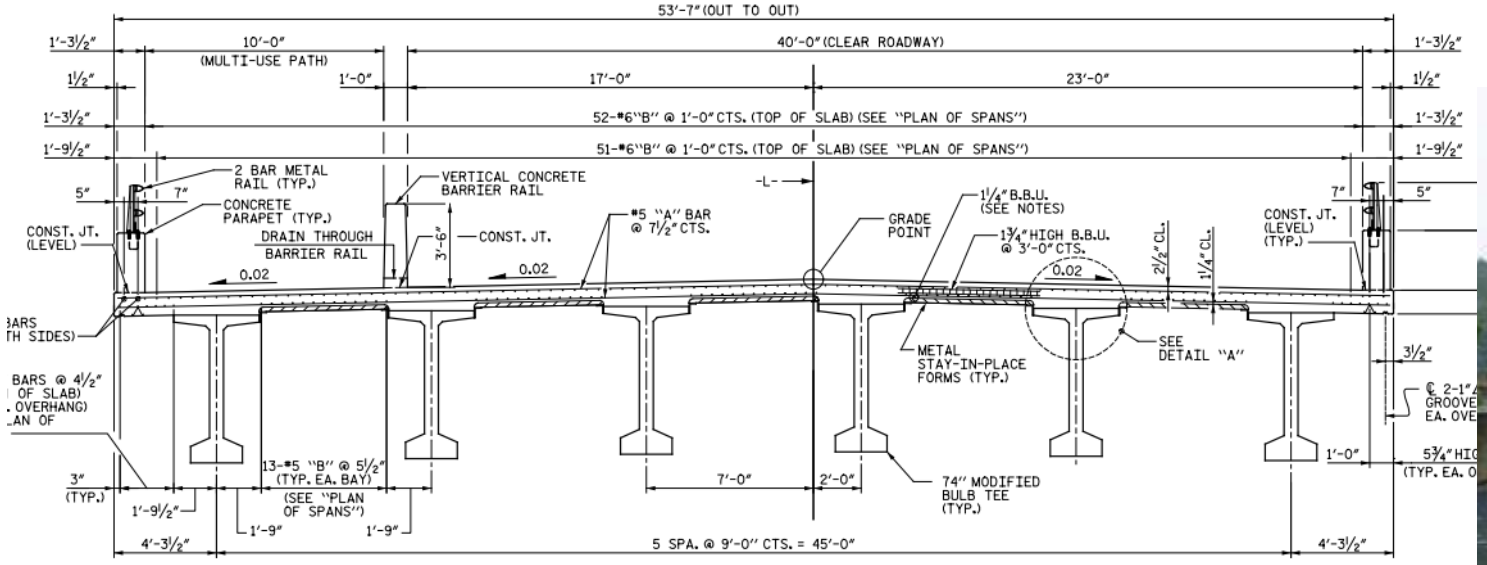


B-5716
Division 7, Rockingham County
Bridge 780140 - ON: SR1138 - OVER: DAN RIVER



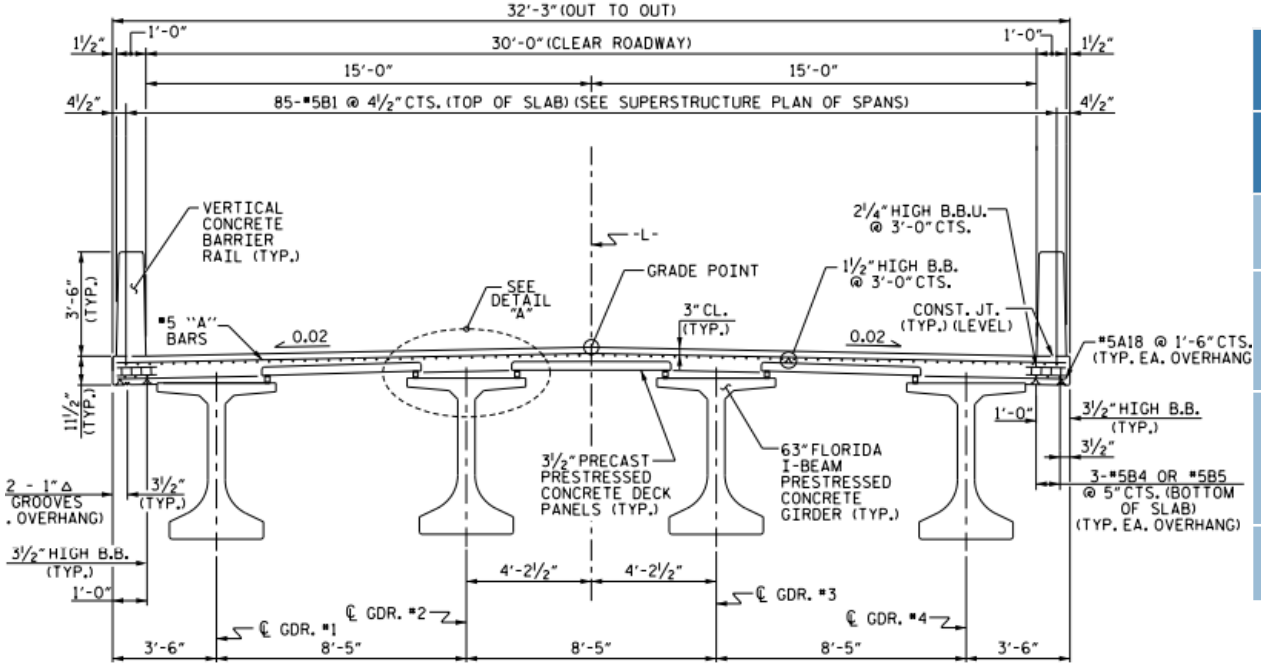
Let Date: August 2025		
Estimate: $13.7M		
Project Type	Replacement	
Structure Type	54” FIB	Drilled Piers
Approx. Span and Total Length	2@115', 2@116', 1@81'	= 543’
Structure Width	36’-7”	

R-3430B
Division 13, Burke County
Bridge 110010- ON: SR1001 -OVER: CATAWBA RIVER



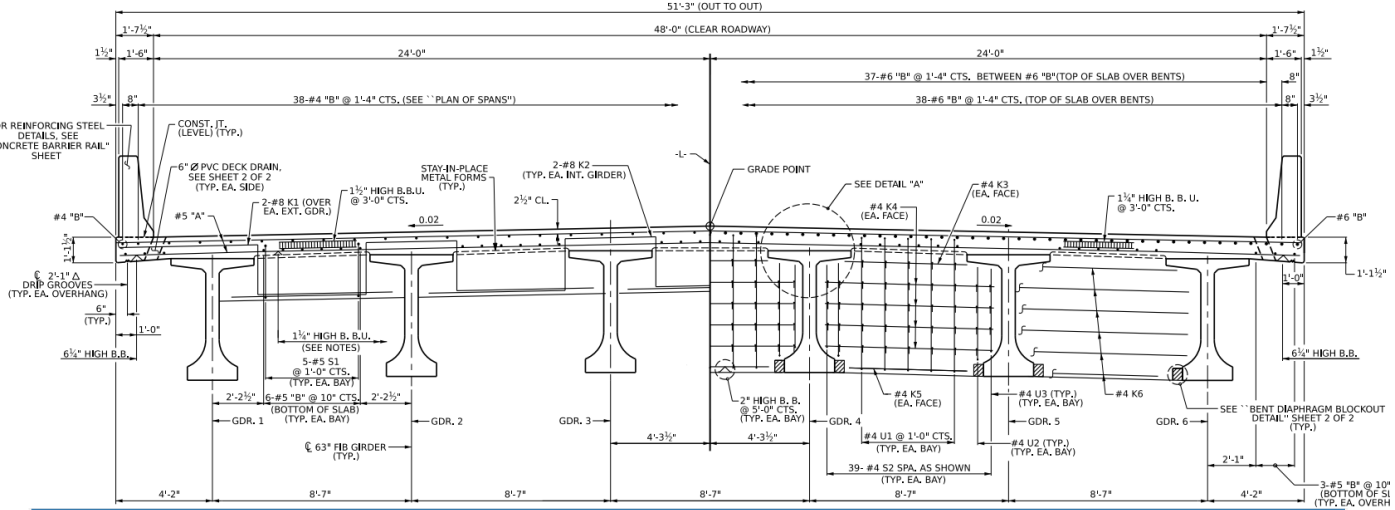
Let Date: August 2025		
Estimate: $22.9M		
Project Type	Replacement	
Structure Type	74" MBT	Drilled Piers
Approx. Span and Total Length	1@134', 3@132', 1@131', 2@138', 1@139'	=1,077'
Structure Width	53'-7"	

B-5614
Division 2, Beaufort County
Bridge 060009 - ON SR1112 OVER BLOUNTS CREEK



Let Date: October 2025		
Estimate: $17.2M		
Project Type	Replacement	
Structure Type	63" FIB	30" Prestressed Piles
Approx. Span and Total Length	1@122', 6@120', 1@122'	= 964'
Structure Width	32'-3"	

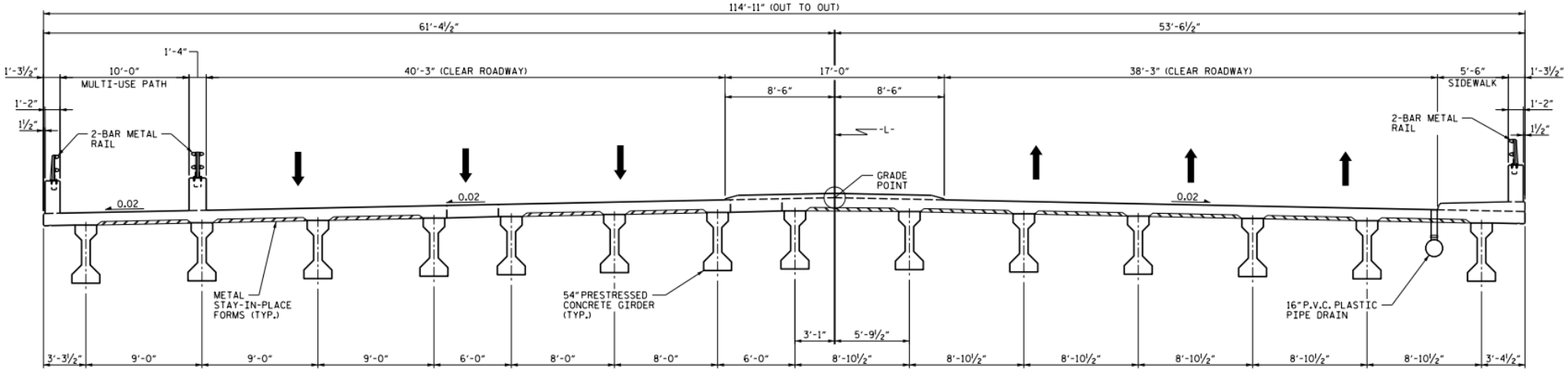
B-5831
Division 11, Yadkin & Surry County
Bridge 850006 - ON: I-77 NBL - OVER: NC268,SOU.RR,YADKIN RVR.



Let Date: October 2025		
Estimate: $24.0M		
Project Type	Replacement	
Structure Type	63” FIB	Drilled Piers
Approx. Span and Total Length	1@95’, 1@125', 1@120’, 1@130’, 1@125’, 1@130’, 1@90’	= 815’
Structure Width	51’-3”	

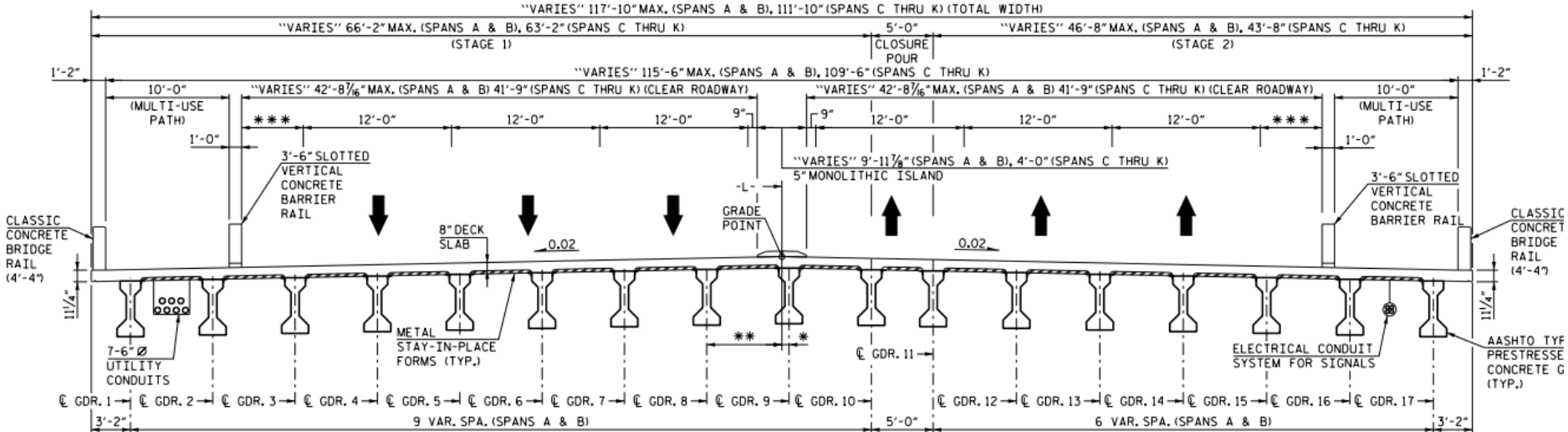
B-5857
Division 12, Gaston County
Bridge 350082 - ON: US29 & US74 - OVER: SOUTH FORK CATAWBA RIVER

Let Date: December 2025		
Estimate: $11.8M		
Project Type	Replacement	
Structure Type	54” PCG	Drilled Piers
Approx. Span and Total Length	5@90’	= 450’
Structure Width	114’-11”	



B-6051
Division 12, Gaston County
Bridge 350091 - ON: US29,US74 - OVER: CATAWBA RIVER

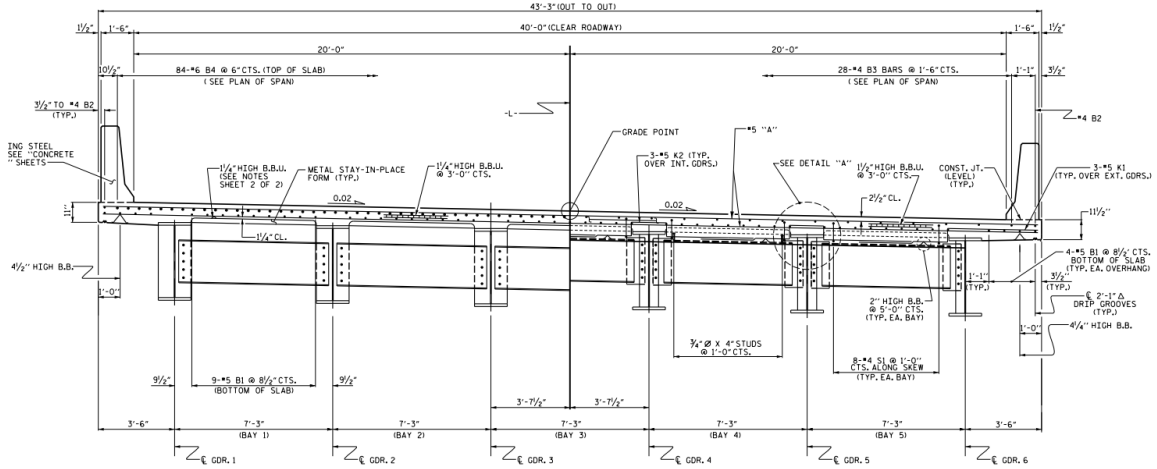
Let Date: December 2025		
Estimate: $76M		
Project Type	Replacement	
Structure Type	54” PCG	Drilled Piers
Approx. Span and Total Length	3@110’, 2@78’, 6@110’	= 1,145’
Structure Width	111’-10”	



15BPR.137
Division 2, Beaufort County
Bridge 060353 - ON US017 OVER TAR RIVER

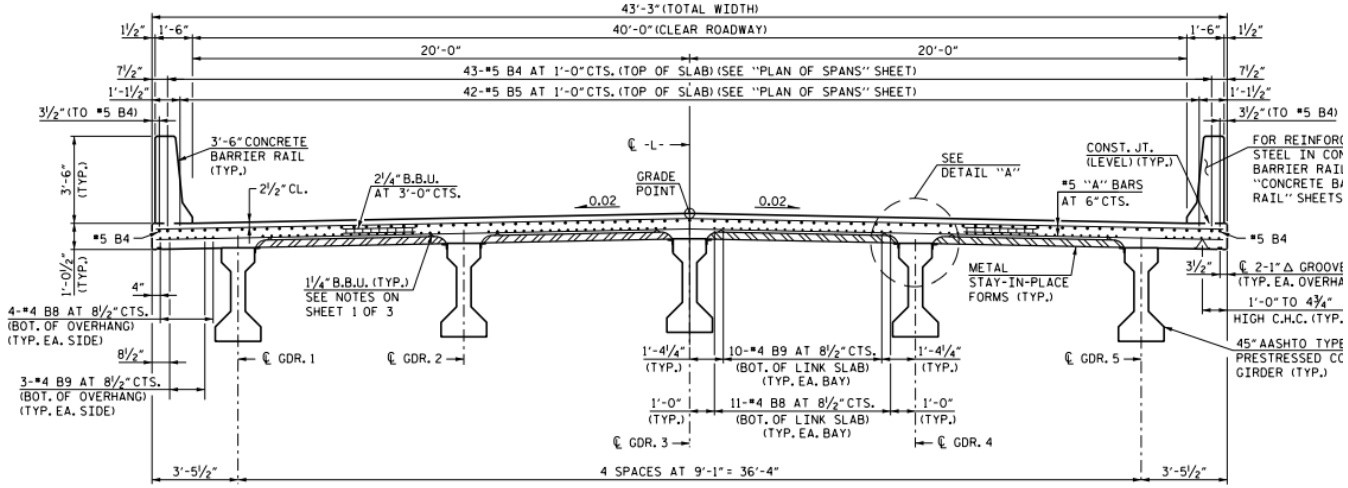
Let Date: February 2026	
Estimate: $10.4M	
Project Type	Preservation
Scope of Work	Silane Treatment, Joint Seals, Shotcrete, Epoxy Injection

B-5833
Division 11, Yadkin County
Bridge 980029 - ON: US21BUS - OVER: I-77



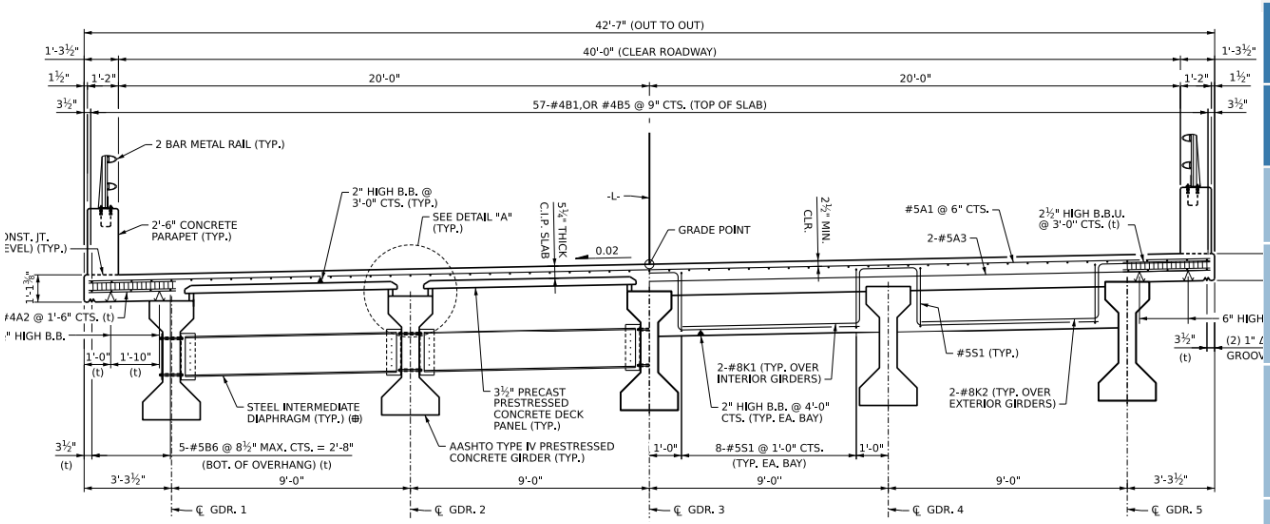
Let Date: March 2026		
Estimate: $19.3M		
Project Type	Replacement	
Structure Type	Steel Plate Girder	Drilled Piers
Approx. Span and Total Length	2@125’	= 250’
Structure Width	43’-3”	

BR-0019
Division 12, Gaston County
Bridge 350056 - ON: NC275 - OVER: S. FORK CATAWBA RIVER



Let Date: March 2026		
Estimate: $13.7M		
Project Type	Replacement	
Structure Type	45” PCG	Drilled Piers
Approx. Span and Total Length	5@80’	= 400’
Structure Width	43’-3”	

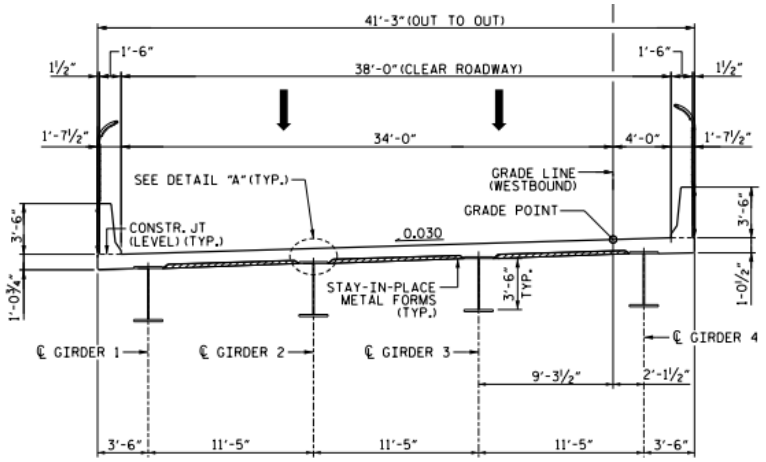
BR-0004
Division 2, Beaufort County
Bridge 060066 - ON US264 OVER PUNGO RIVER

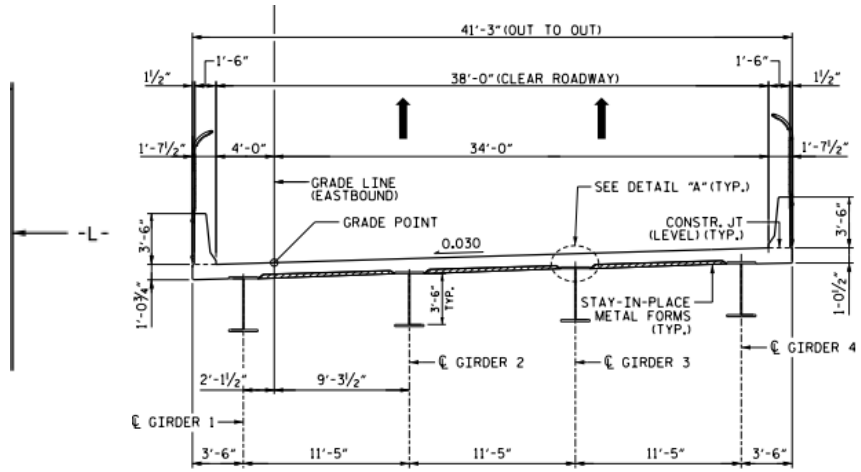


Let Date: May 2026		
Estimate: $17.0M		
Project Type	Replacement	
Structure Type	54” PCG	30” Prestressed Piles
Approx. Span and Total Length	1@103’, 4@102’, 1@103’	= 614’
Structure Width	42’-7”	

BR-0140
Division 9, Davidson County
Bridges 280087 & 280089 - ON: I85BUS,US29,US70 - OVER: WSSB RAILROAD

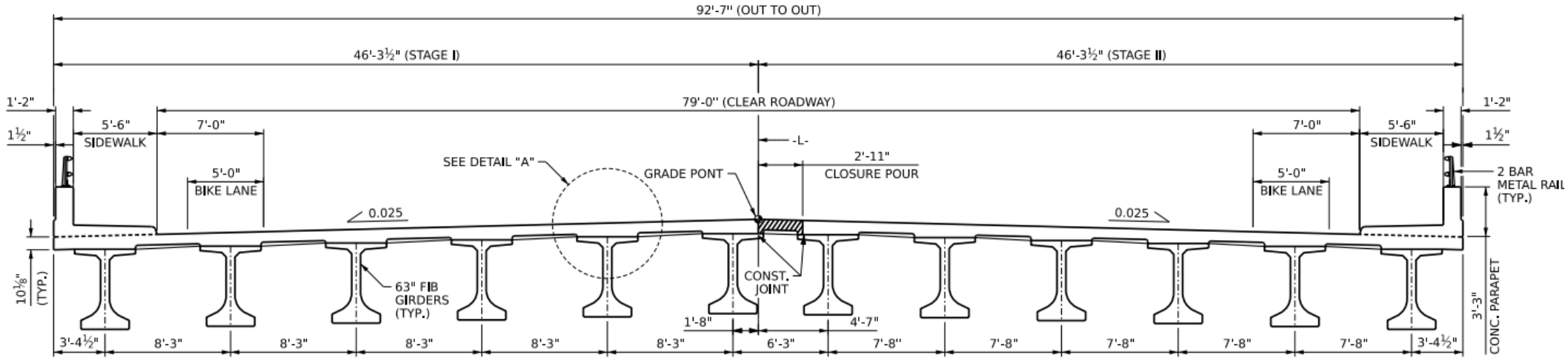
Let Date: May 2026		
Estimate: $14.9M		
Project Type	Replacements	
Structure Type	Steel Plate Girder	30” Pipe Piles
Approx. Span and Total Length	1@53’, 1@113’, 1@53’	= 219’
Structure Width	41’-3”	



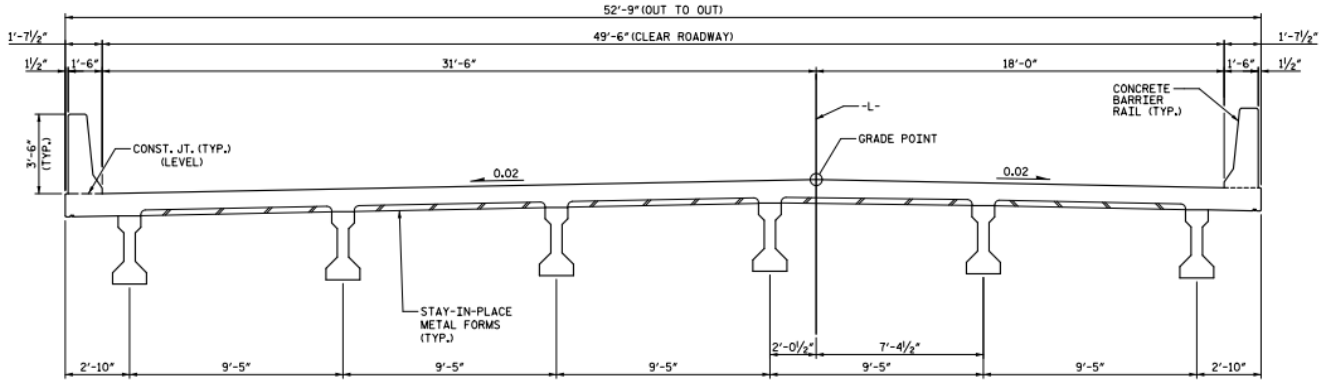


BR-0168
Division 9, Forsyth County
Bridge 330289 - ON: SR4000 - OVER: US52

Let Date: May 2026		
Estimate: $19.8M		
Project Type	Replacement	
Structure Type	63” FIB	Footing on Steel Piles
Approx. Span and Total Length	1@100’, 1@140’	= 240’
Structure Width	92’-7”	



BR-0005
Division 2, Beaufort County
Bridge 060075 - ON NC33 OVER CHOCOWINITY CREEK

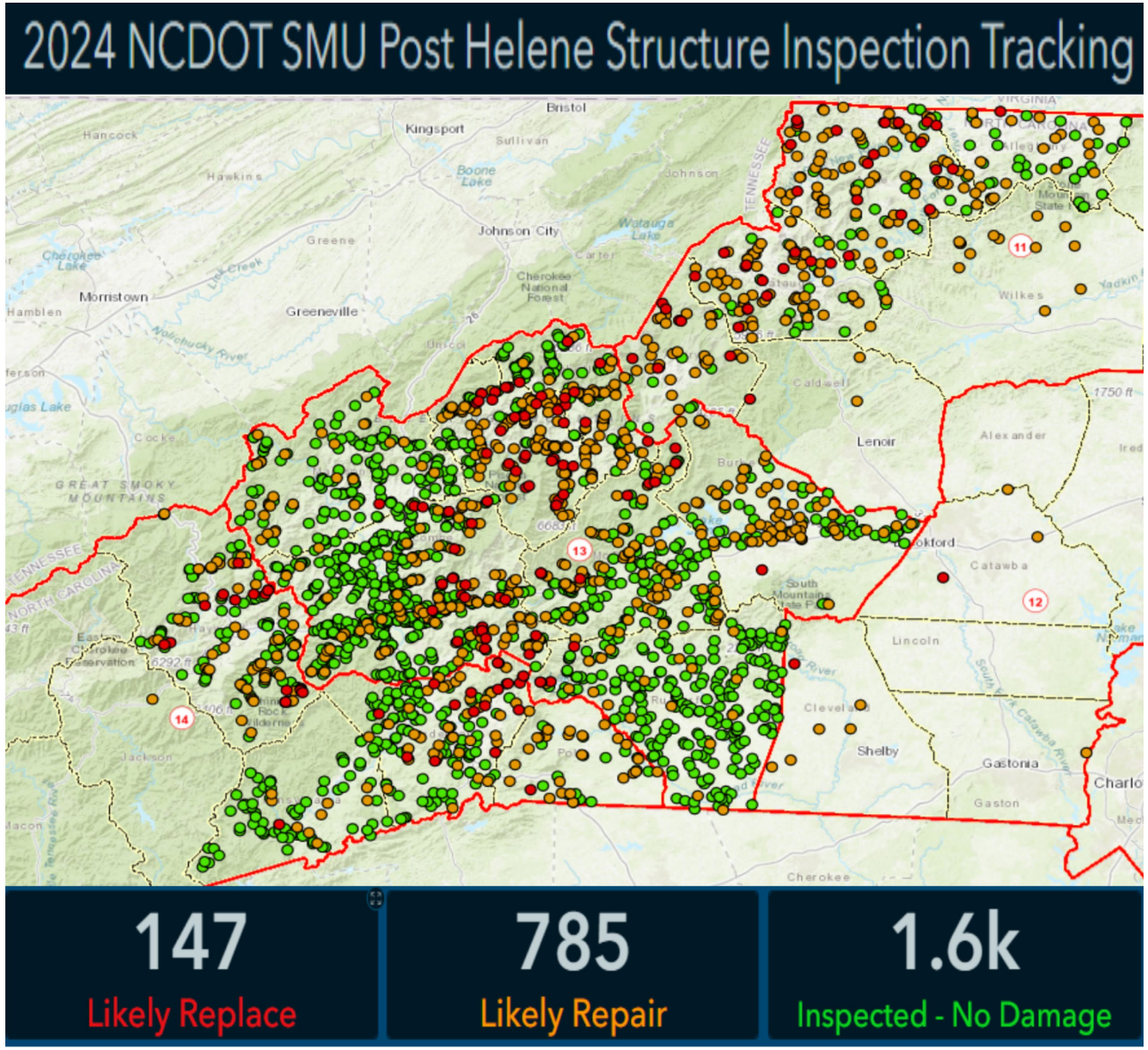


Let Date: June 2026		
Estimate: $13.2M		
Project Type	Replacement	
Structure Type	36” PCG	20” Prestressed Piles
Approx. Span and Total Length	1@56’, 2@55’, 1@56’	= 222’
Structure Width	52’-9”	

Helene Bridges

Current Estimates

- Estimated Number of Structures
  - 846 Bridges Damaged
    - *55% Repaired*
  - 156 Bridges To Be Replaced
    - *17 Completed*
  - 92 Culverts Damaged
    - *63% Complete*
- Initial Replacement Cost Estimate
  - ~$206 Million



Initial Assessment (Fall 2024)

Temporary Measures

Emergency Repairs

Approach Washouts

Approach Washouts

Approach Washouts

Temporary Pipes

Temporary Bridges

Temporary Bridges

Temporary Bridges – Contractor Used Materials

Temporary Bridges – Contractor Used Materials

Temporary – Pedestrian Access

Temporary Bridges – Acrow

Temporary Bridges – Rail Cars

Temporary Bridges – Rail Cars

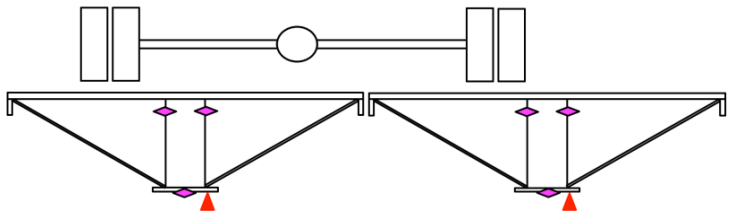
Temporary Bridges – Rail Cars

Rail Cars – Bracing and Crutch Bents

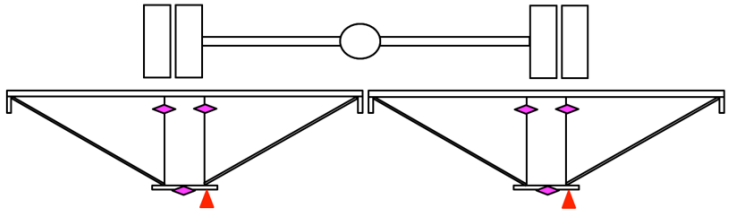
Rail Car Load Testing Plan

Two Rail Cars – 1 Lane Bridge

Loading Path 1: The truck will be placed approximately 2 ft from the left edge of the bridge.

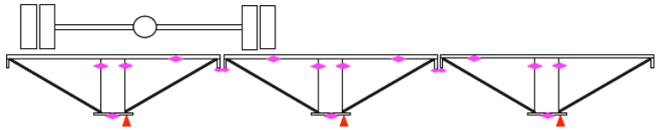


Loading Path 2: The truck will be centered down the bridge.

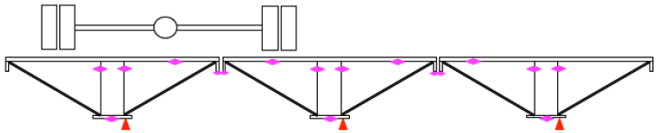


Three Rail Cars – 2 Lane Bridge

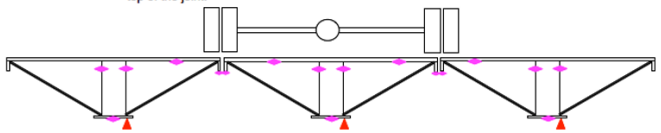
Loading Path 1: The truck will be placed approximately 2 ft from the left edge of the bridge.



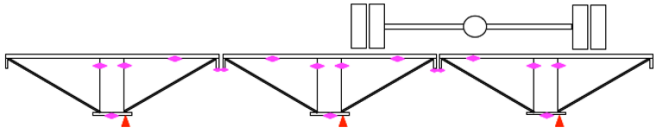
Loading Path 2: The truck will be centered down the typical left lane.



Loading Path 3: The truck will be centered down the bridge with a focus to align at least one wheel line right over top of the joint.



Loading Path 4: The truck will be centered down the right hand lane.



Loading Path 5: The truck will be placed approximately 2 ft from the right edge of the bridge.

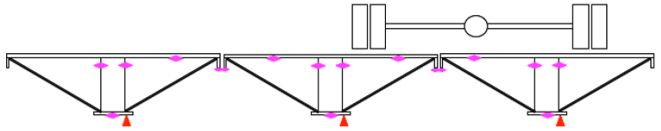


Figure 4. Loading Paths for 580383

Test Dump Trucks

12 Ton

20 Ton

28 Ton

Permanent Replacements

Internal Acceleration Efforts

- Shortlisting of Emergency Express Design Build Teams (38 Teams)
- Preordering of Materials
- Drone Deploy Models of Each Site
- Alternative Delivery Unit
- Bridge Maintenance Teams

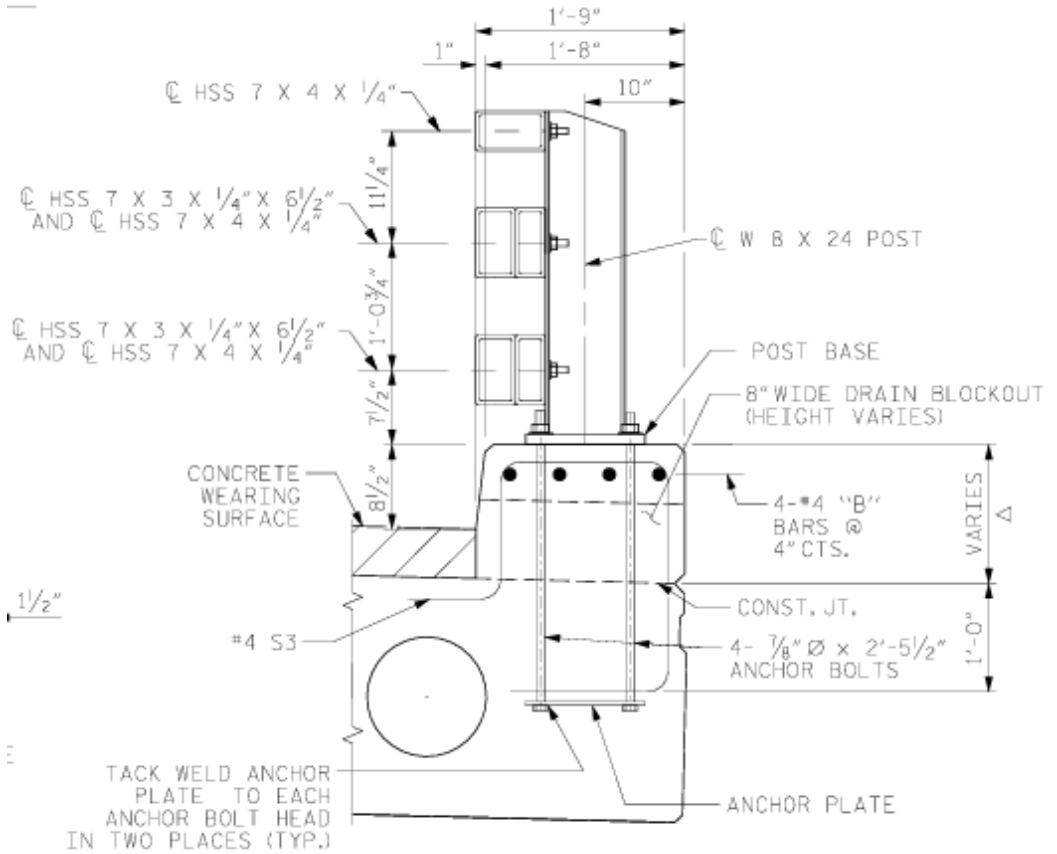
Bridge Replacement Delivery Methods

- Timber Bridge Replacements — 30 Bridges
- Emergency Express Design Build — 72 Bridges (29 packages)
- Design Bid Build — 27 Bridges
- Progressive Design Build & CMGC — 9 Bridges

Emergency Express Design Build

- 3 Teams Shortlisted per package
- 1-5 Bridges/Culverts per package
- 29 Packages (72 Bridges)
- 24 Packages Awarded
- 5 Packages Advertised
- 15 Different Winning Contractors
- Total Bids = ~ $136 Million

Oregon Rail – Anchor Bolts



SECTION THRU RAIL

DECK DRAIN IN RIGHT SIDE CURB ONLY.
Δ SEE CURB HEIGHT TABLE ON SHEET S-20 AND S-21
THE #4 "B" BARS IN THE CURB MAY BE FIELD CUT TO AVOID DRAIN BLOCKOUTS

Prestressed Girders FIB Policy; Raking

Florida I-Beams (FIBs) Policy

New Policy Coming Soon….

- Strand pattern is different than FDOT and others by having two strands in the web vs. a single strand.
- Four legs coming out the top of the girder like MBT
- Limit design-bid-build to 63” FIB and below to central and western areas of the state due to girder weight and shipping concerns.
- Link Slabs will be used with FIBs

Prestressed Girders

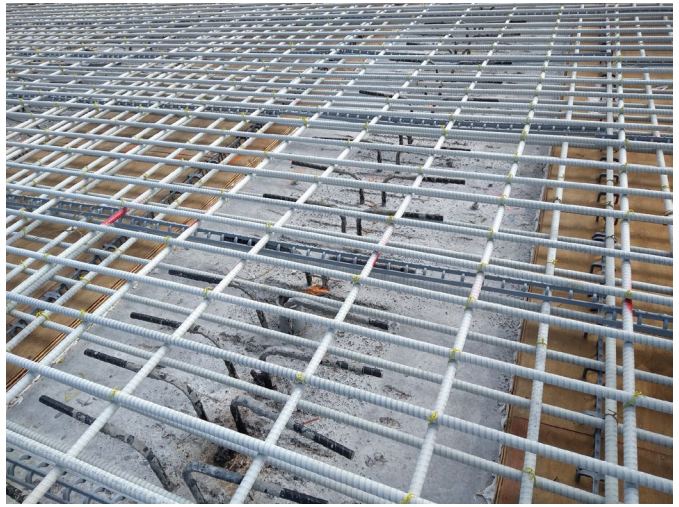
GFRP Update

GFRP Reinforcement in Bridge Decks

- SMU to start designing some bridge decks with GFRP soon

- Option to switch on active projects
  - NCDOT or Contractor initiated
  - NCDOT would facilitate the plan revision & design cost
  - Supplemental Agreement with Contractor

- Keeping as close to original plan as possible
  - Same spacing (except B bars in top mat)
  - Bars upsized one size
  - Bent bars and barrier reinforcement – epoxy steel



GFRP – Approved Facilities

- **MST Rebar Inc, Vaughan ON (Canada)**
  - Working on getting the Buffalo, NY plant approved
  - Also working on another US facility

- **Pultrall aka V-Rod, Woodbridge, Canada**
  - Working on getting the Rochester, NY plant approved

- **Mateenbar, Concord, NC**
  - Joint venture between Owens Corning and Pultron has expired, so it is just known as Mateenbar.

Approved facilities are listed in Vendor under Fiber Reinforcement Product (facility numbers start with FRP)

M&T has added sampling of Composite Rebar to the SOP for rebar sampling which can be found on the M&T website.

ncdot.gov

Drone Illumination for Worksite Safety

STIC Incentive Grant Approval

Project Title: Drone Illumination for Worksite Safety

Requesting Unit: Division of Aviation

Proposed work: Procure two tethered drone systems that are equipped with industrial lighting to help illuminate NCDOT's nighttime operations. These two systems will be tested on DOT projects and compared to see how this technology can be incorporated in the future.

Interested Partners: Construction Unit, Division 11 Traffic, Traffic Systems Operations, Division 9 Maintenance, and Division 7 Construction

Teather drone technology

- Mobile
- Light weight
- Quick setup (single person)
- Extended run time
- High output (100-500K Lumens)
- Top-down light
- Reduced glare
- Current cost ~ $56K

Teather drone use cases

- Nighttime Emergency Response and Damage Assessment
- Traffic Incident Management
- Construction Site lighting
- Public Safety and Event Management
- Maintenance lighting

CalTrans Demo - Drone Illumination of Work Zone

CalTrans Demo - Drone Illumination of Work Zone

Thank you!