



NORTH CAROLINA
Department of Transportation

I-4700 Update Blue Ridge Parkway Bridge

Nathan Moneyham, PE – Division 13 Construction Engineer
October 13, 2022

Topics

Project Overview

New Westbound Alignment Progress (late 2021 to September 2022)

Upcoming Traffic Shift at French Broad River

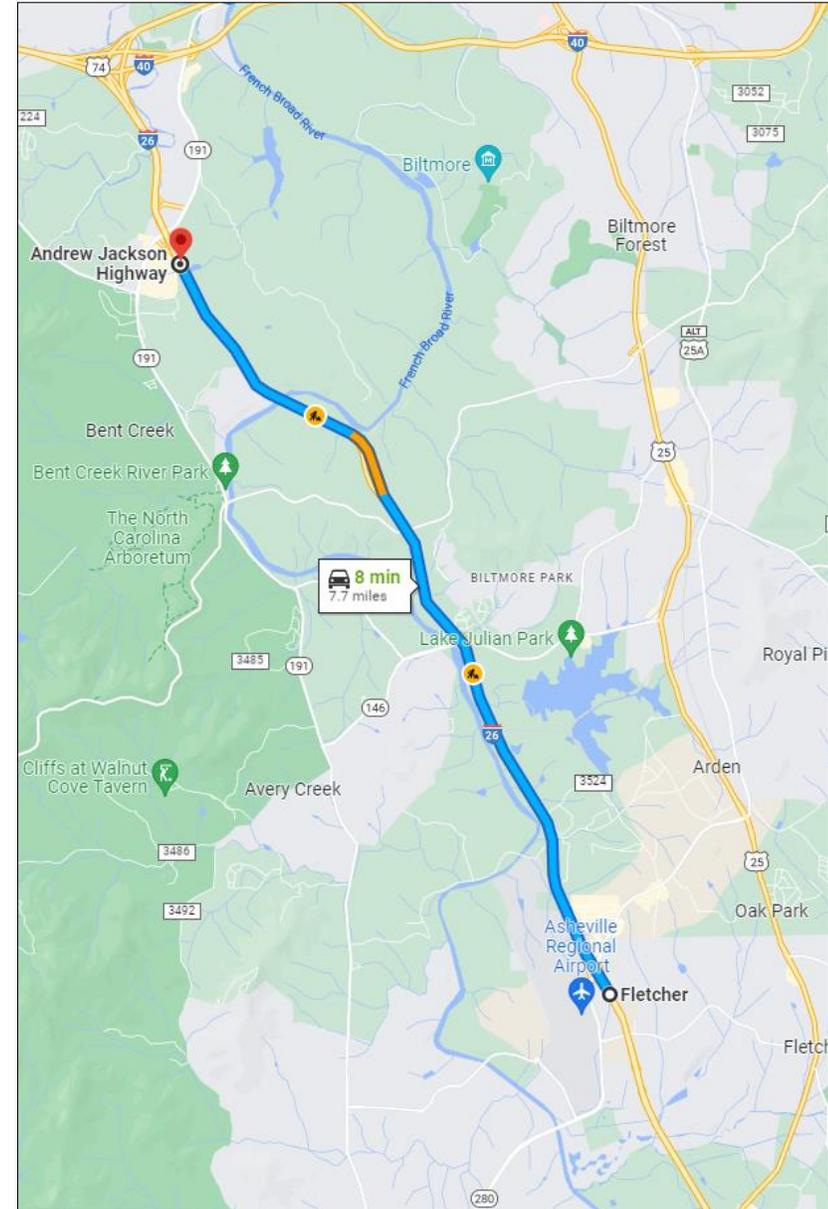
Blue Ridge Parkway Bridge Progress (July – October 2022)

- Segmental construction



Project Overview

- Project Area – Exit 33 (Brevard Road) to Exit 40 (Airport Road)
- Contract amount: \$263 million
- Percent Complete: 51.23%
- Completion Date: July 2024



New Westbound Alignment – Late 2021



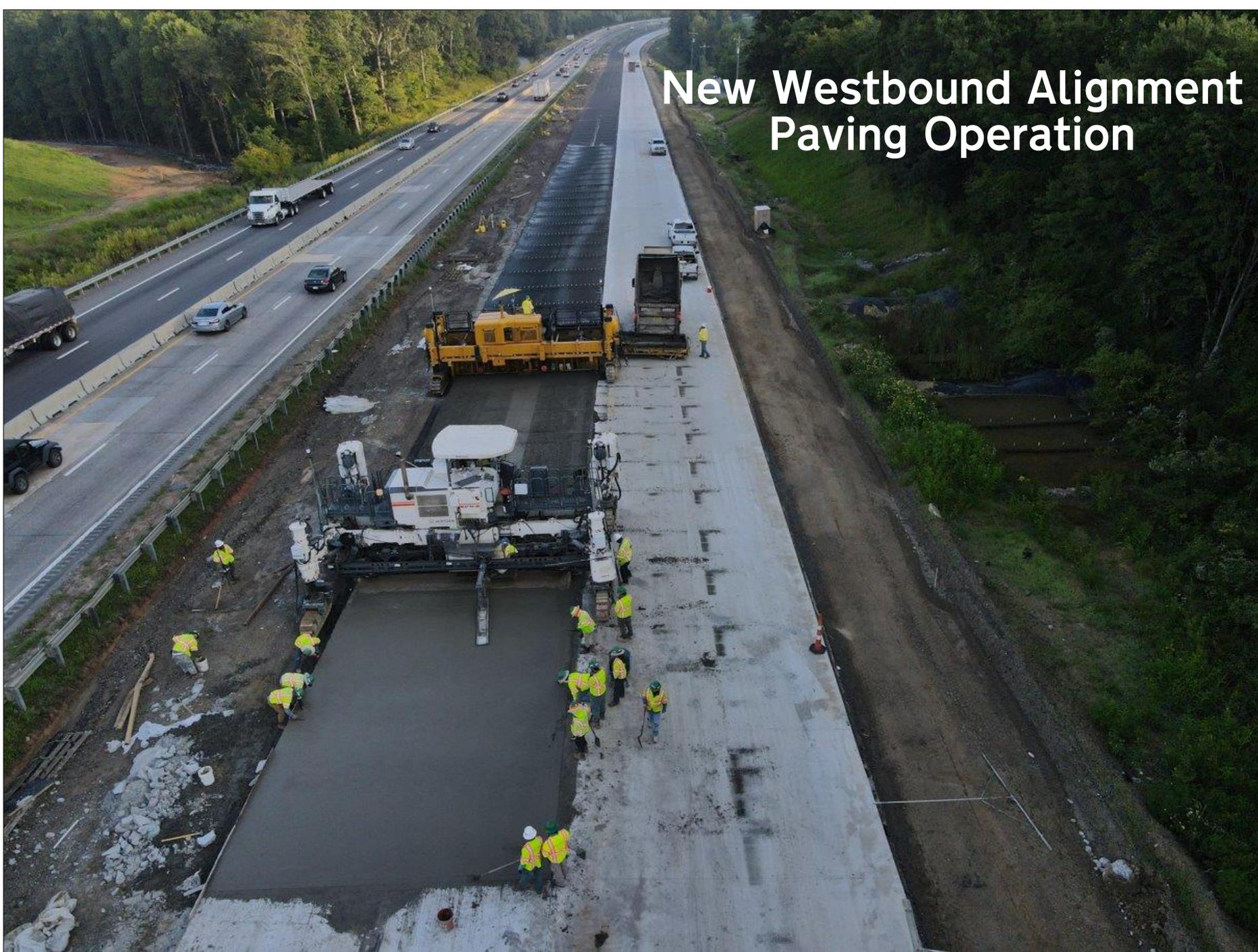
New Westbound Alignment – Pavement Subgrade



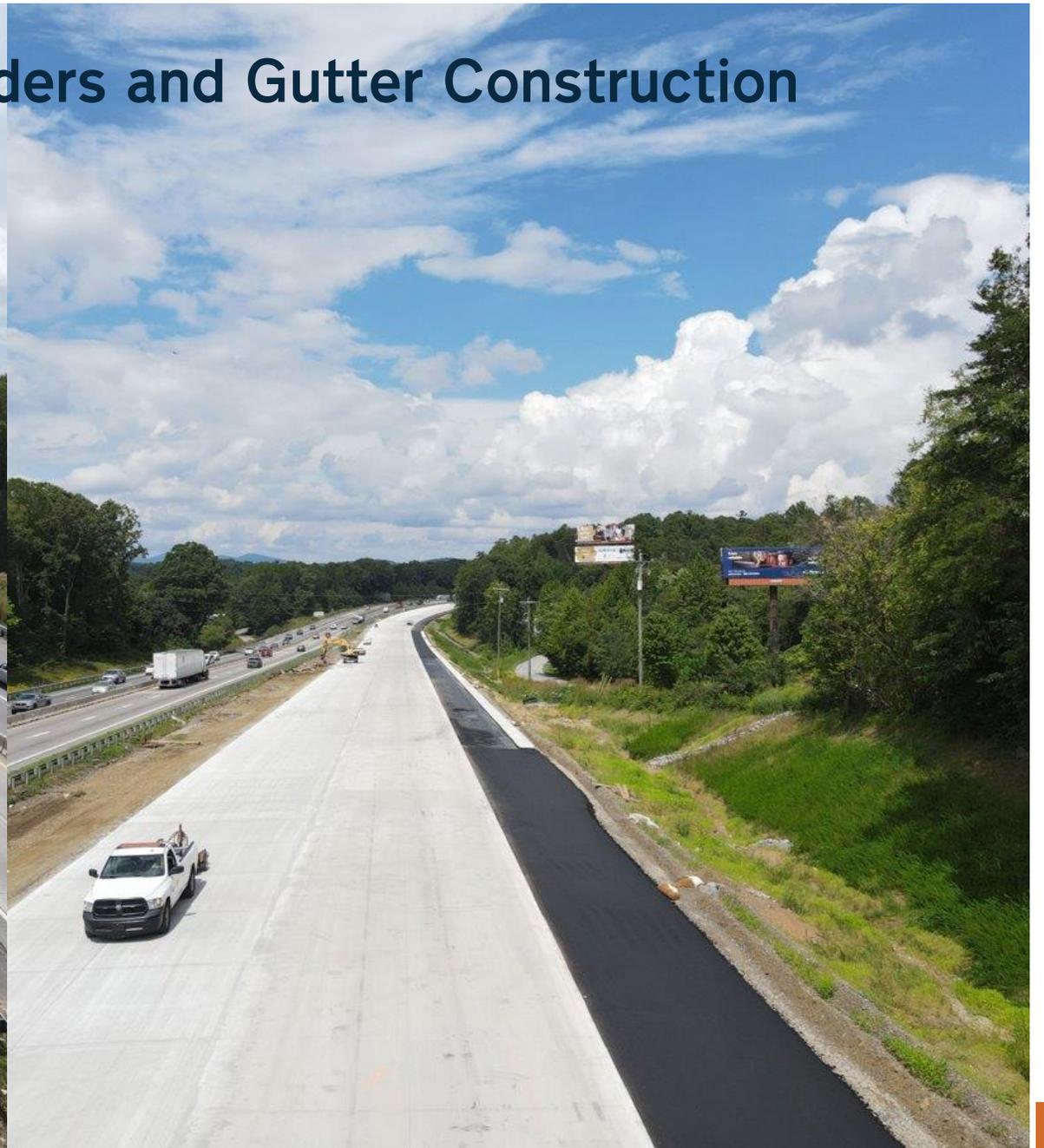
**Airport Rd WB On Ramp
June 2022**



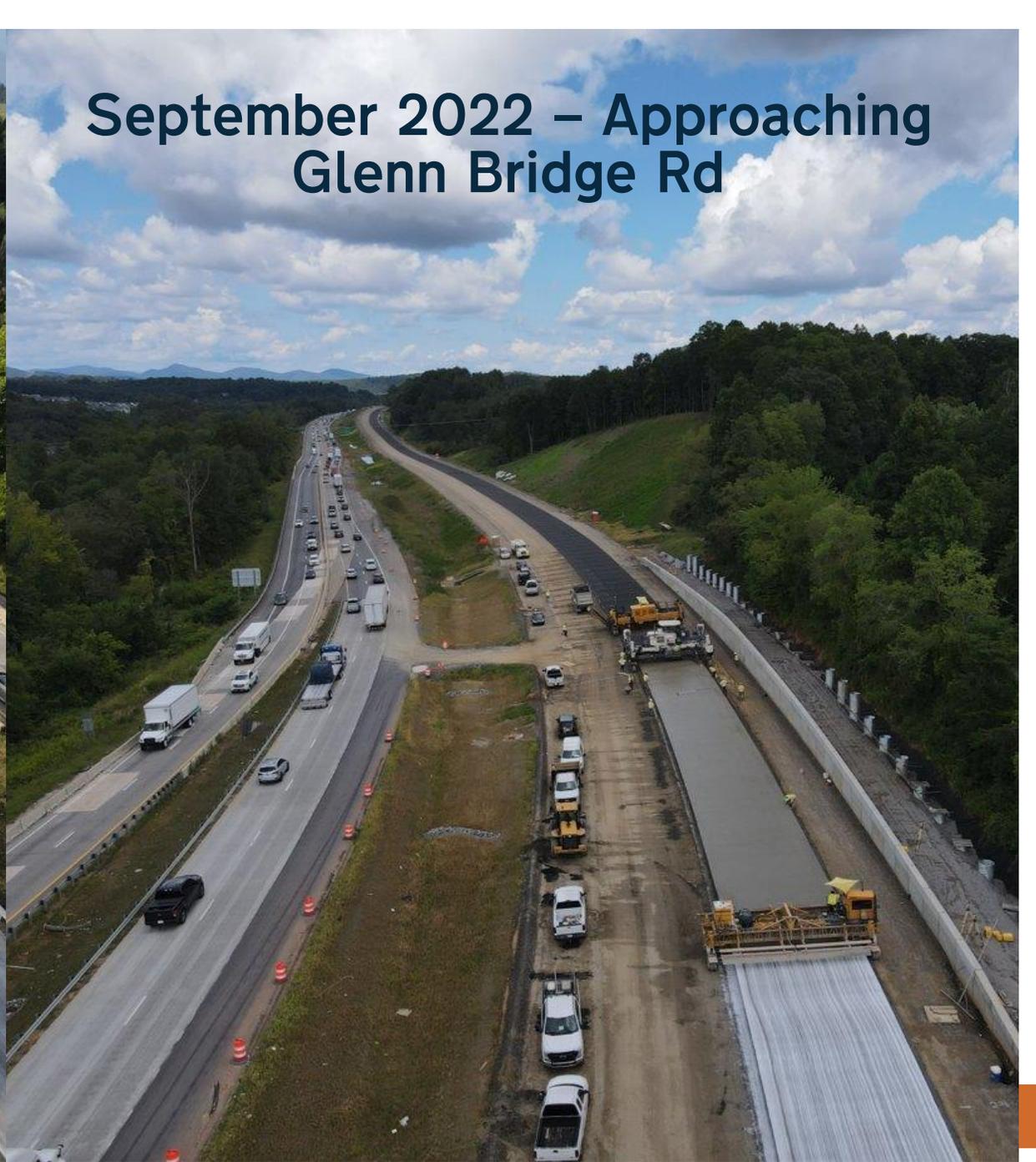
New Westbound Alignment Paving Operation



September 2022 – Asphalt Shoulders and Gutter Construction



September 2022 – Approaching Glenn Bridge Rd





September 2022 – Approaching Long Shoals Rd



September 2022 – Approaching Long Shoals Rd

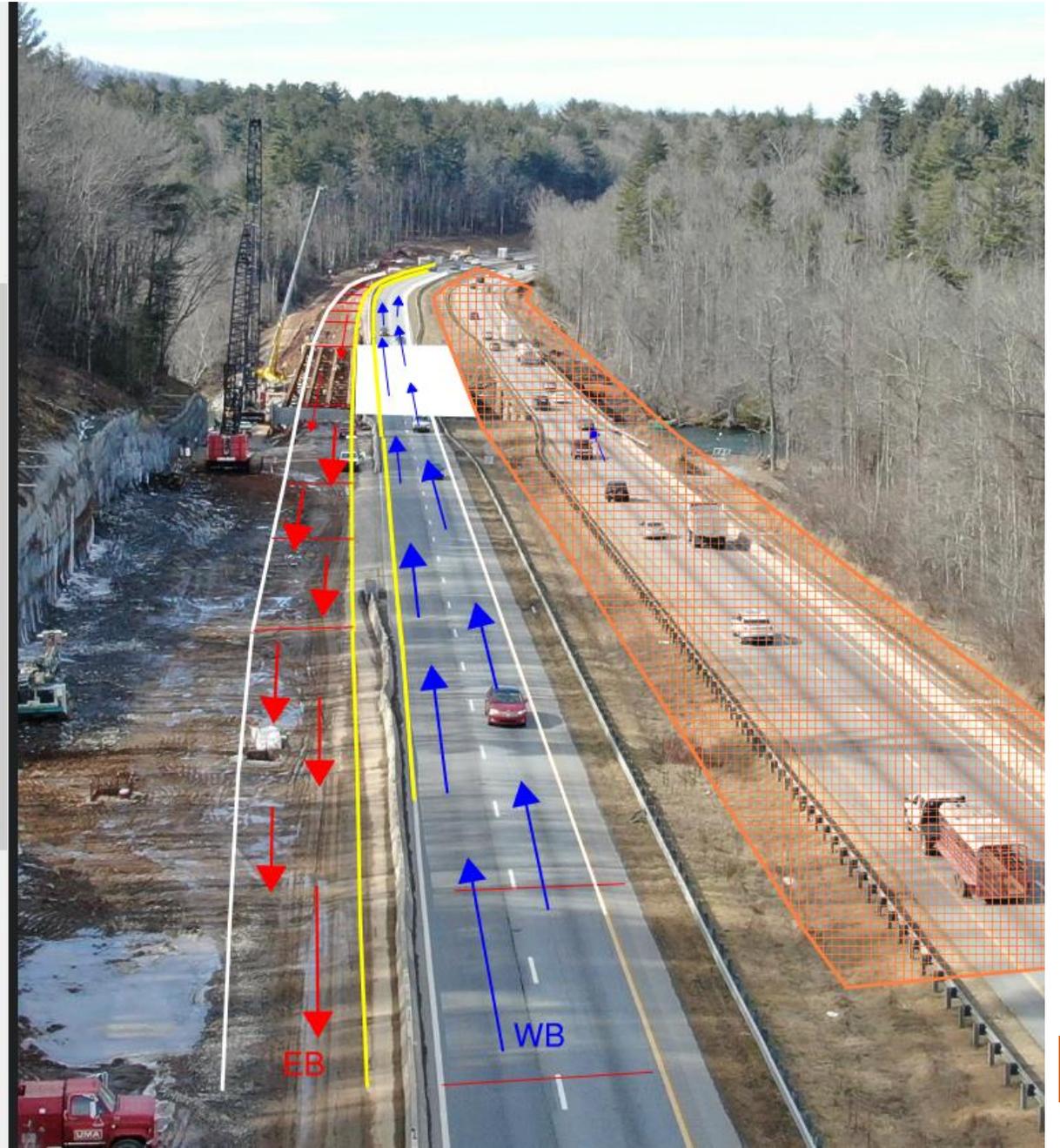
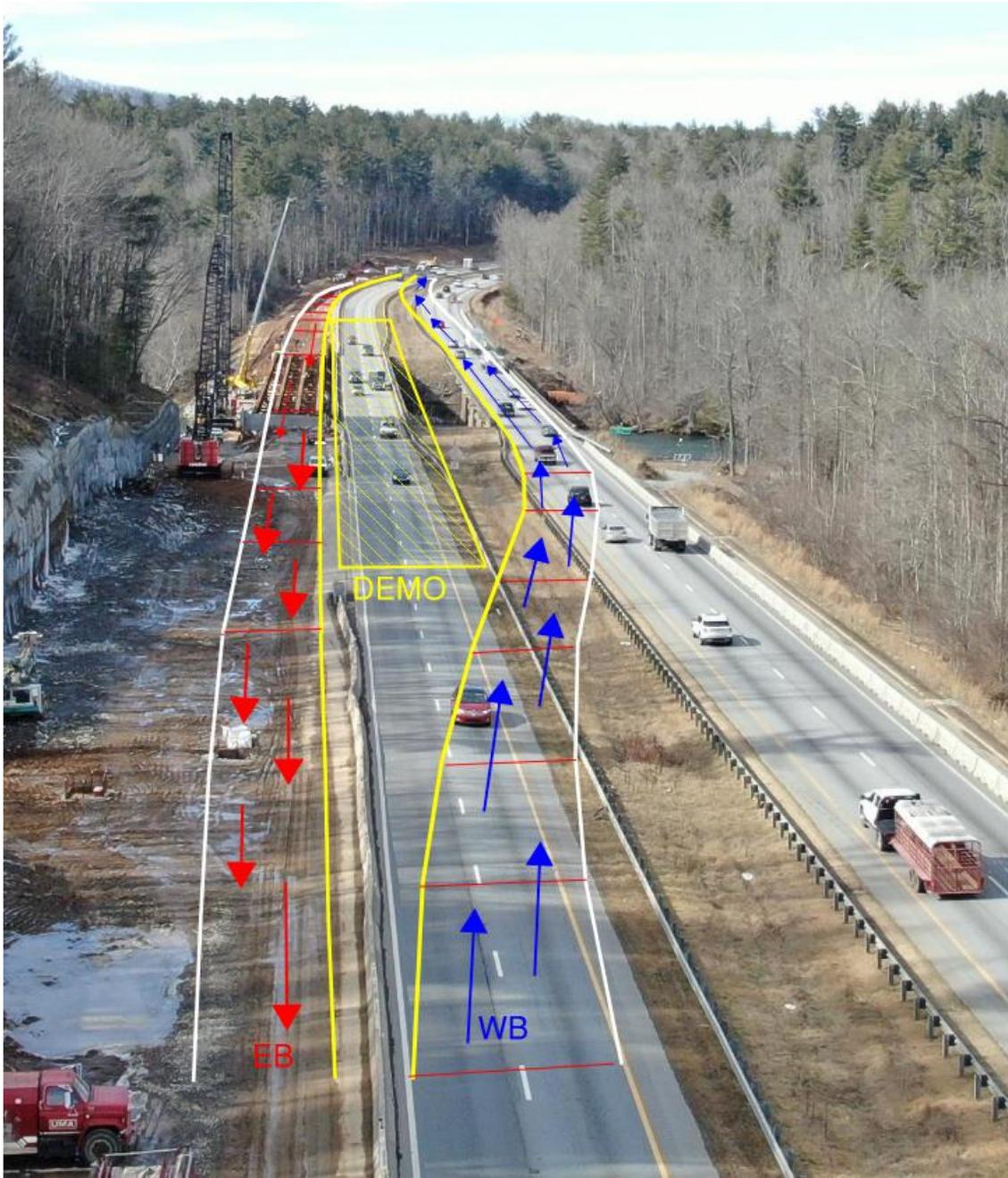


Upcoming Traffic Shifts

Upcoming Traffic Shifts

- I-26 EB/WB from Airport Rd to the BRPW
- French Broad River Bridge
- Goal to complete these shifts by the end of the year

Upcoming Traffic Shift – French Broad River Bridge



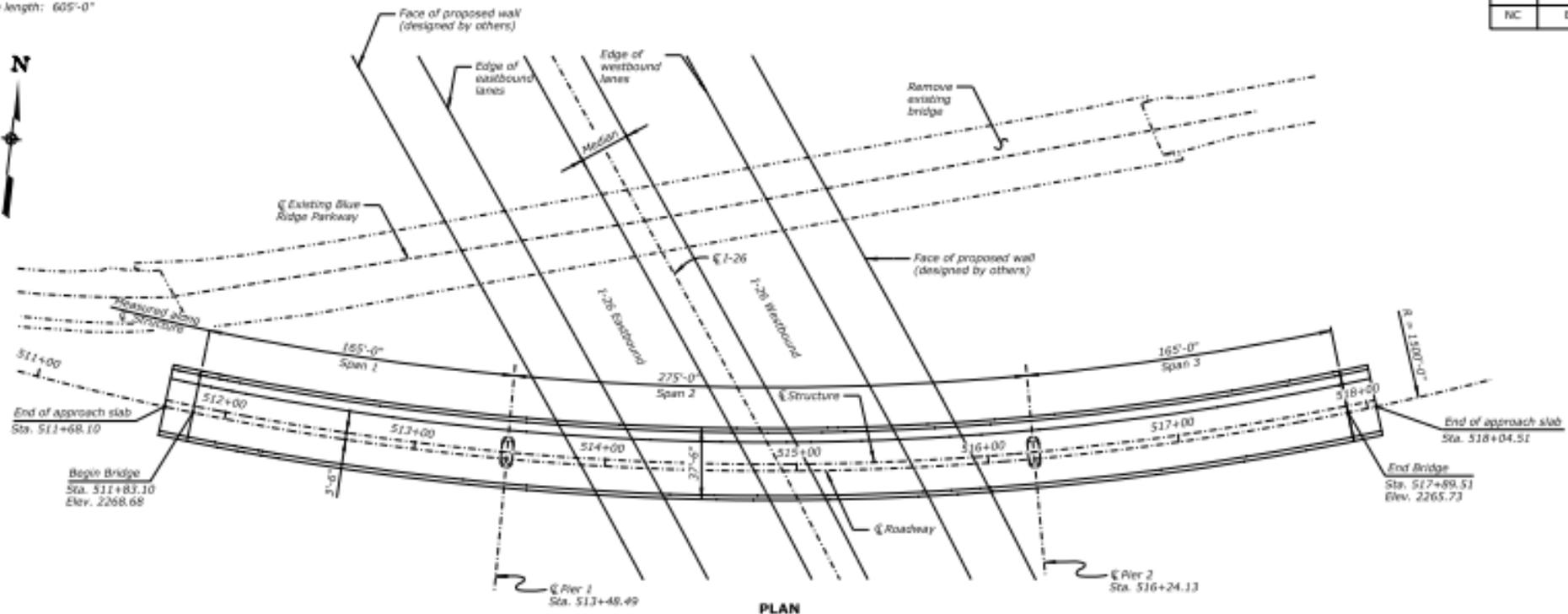
Blue Ridge Parkway Bridge

Blue Ridge Parkway Bridge Overview

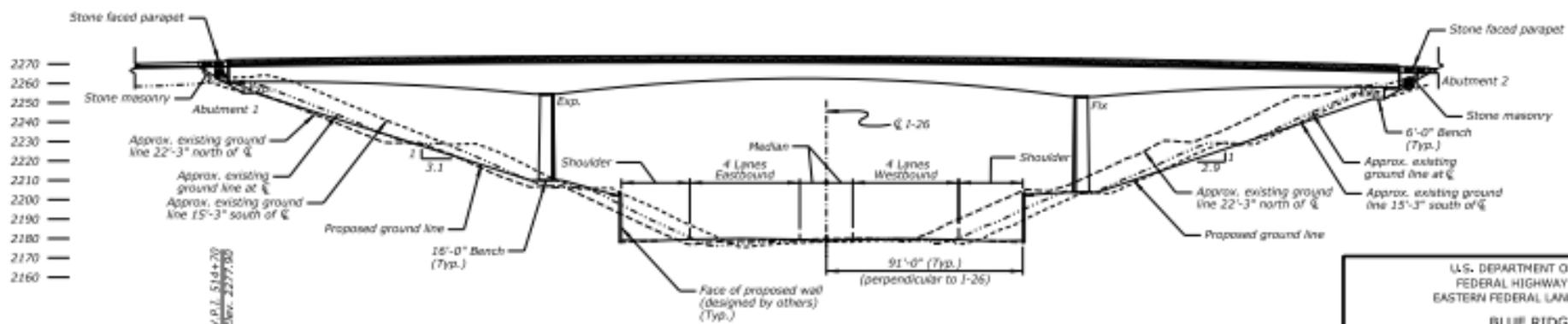
- Partnership with FHWA and NPS
- AECOM as the Engineer of Record
- Approximately \$14.5 Million
- Precast Segmental Structure
- Balanced Cantilever
- Casting Yard in Wilmington NC



Bridge length: 605'-0"



PLAN



ELEVATION



PROFILE GRADE
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 BLUE RIDGE PARKWAY
 BRIDGE OVER I-26
 PLAN AND ELEVATION

NO.	DATE	BY	REVISIONS	NO.	DATE	BY	REVISIONS	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	PROJECT TEAM LEADER	BRIDGE PLAN SHEET	DATE	BRP NO.
								AR	AR	CWN	1" = 30'-0"	George Choubah	5 of 228	December 2018	BRP-1265



2-1 SS segment pour* X



2-1 SS rebar* X









3.3 STRESS 12 TO 170 KIPS
4. STRESS PERMANENT PT BARS B4
(*) BOTTOM PT BARS AT TYPICAL SE

BALANCING SEGMENT LIFTED
TO SEGMENT TRANSPORTER BY CRANE

SEGMENT LIFTER
PICK-UP LOCATION

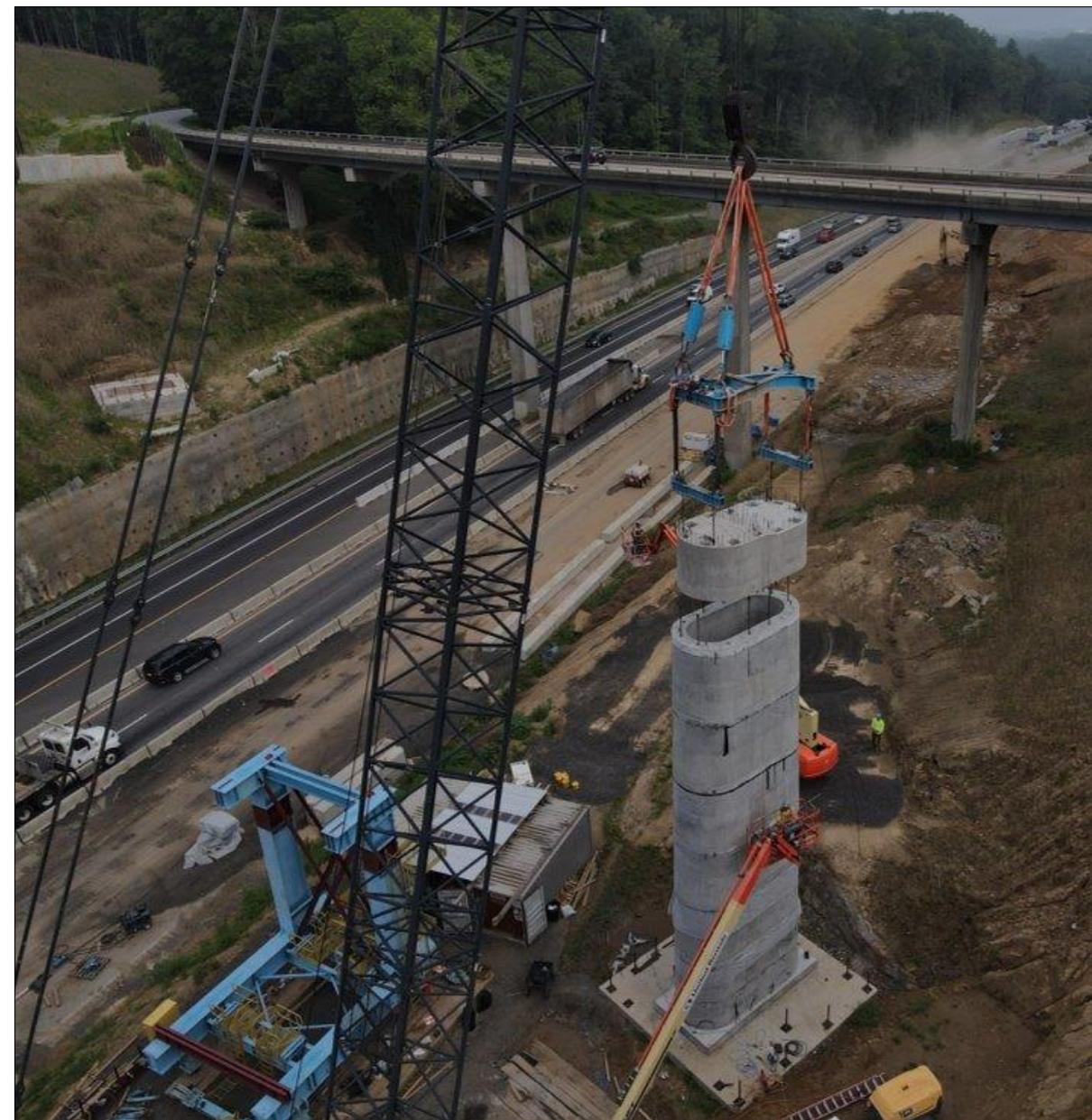
SEG
TIE
(BY
PRE
SEG
SEGMENT TRS
(BY VSL)

TEMPORARY TOWER
(BY FINLEY)

PROPOSED GROUND

July 2022 – Pier Construction









August 2022 Temporary Stability Tower Construction







mid - September 2022



mid-September 2022



late -September 2022



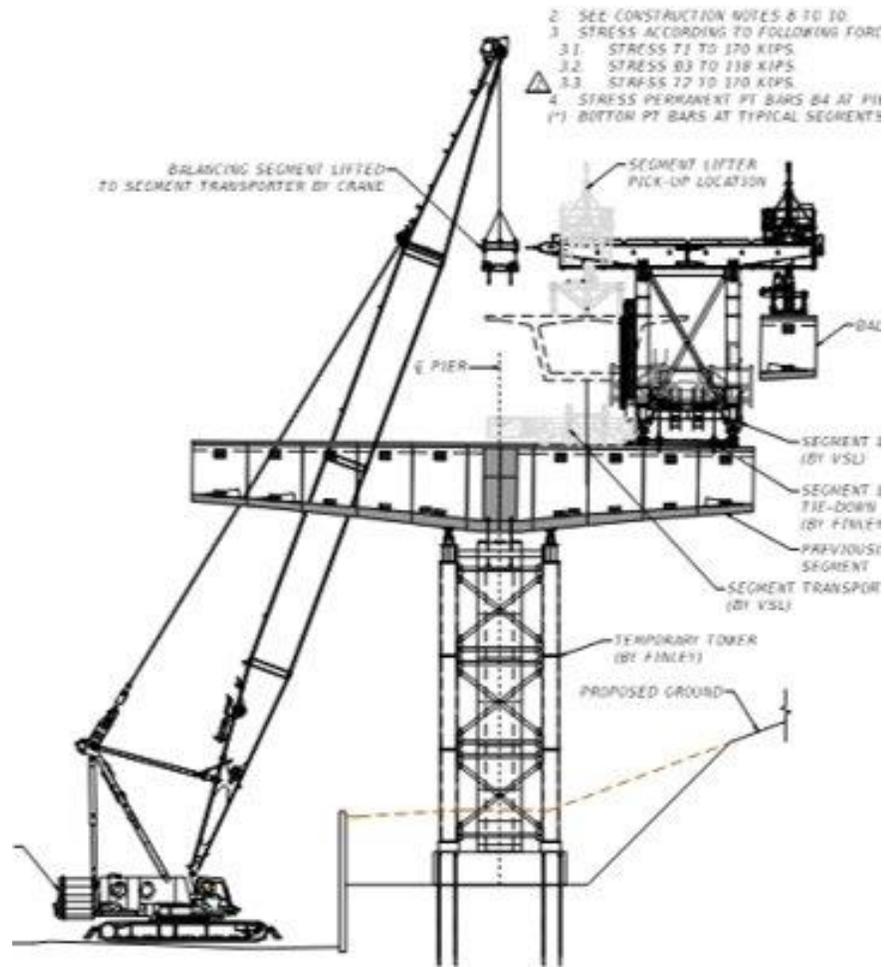




early – October 2022
Stairway and fall protection

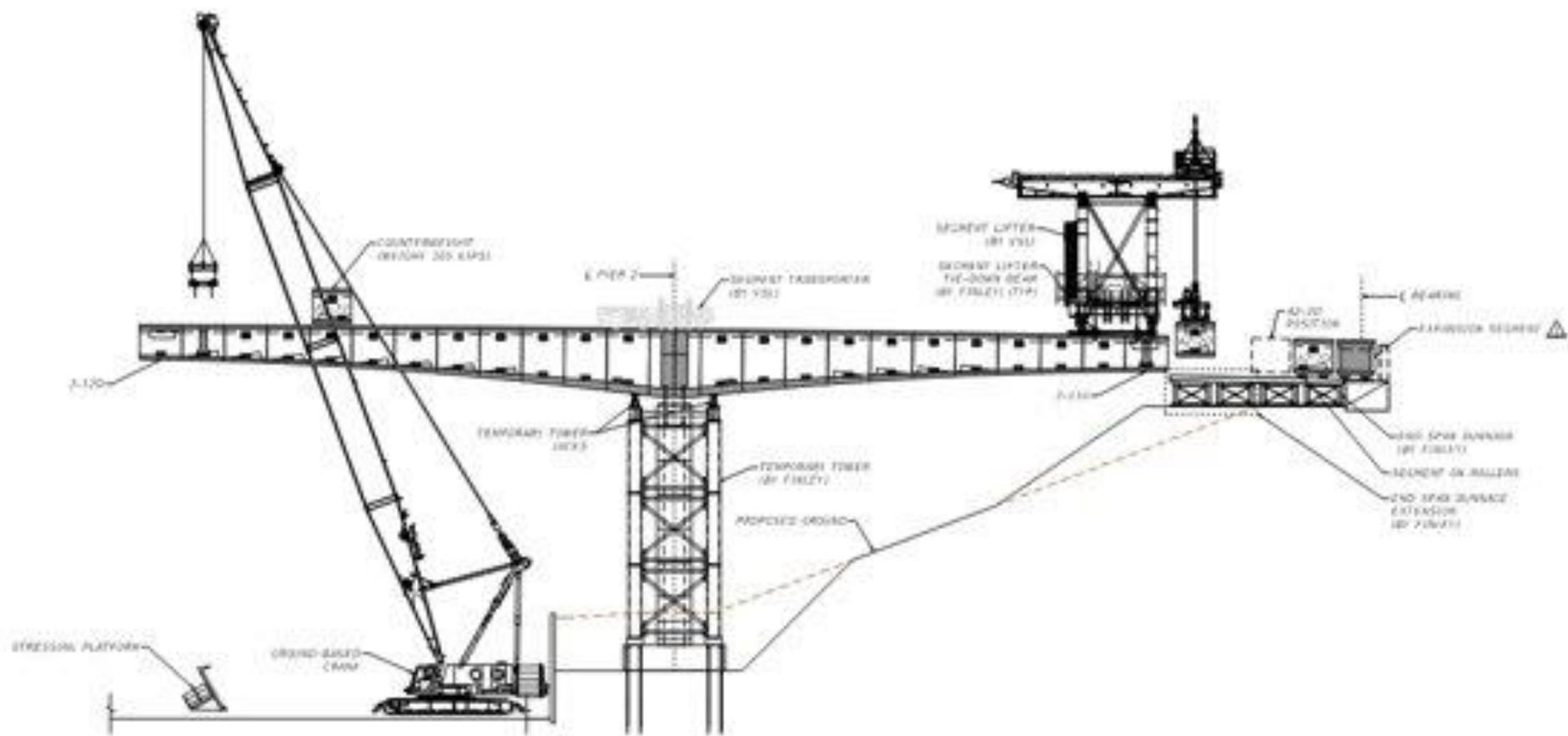






SEGMENT ERECTION PROCEDURE II
 (BY SEGMENT LIFTER)













Questions
