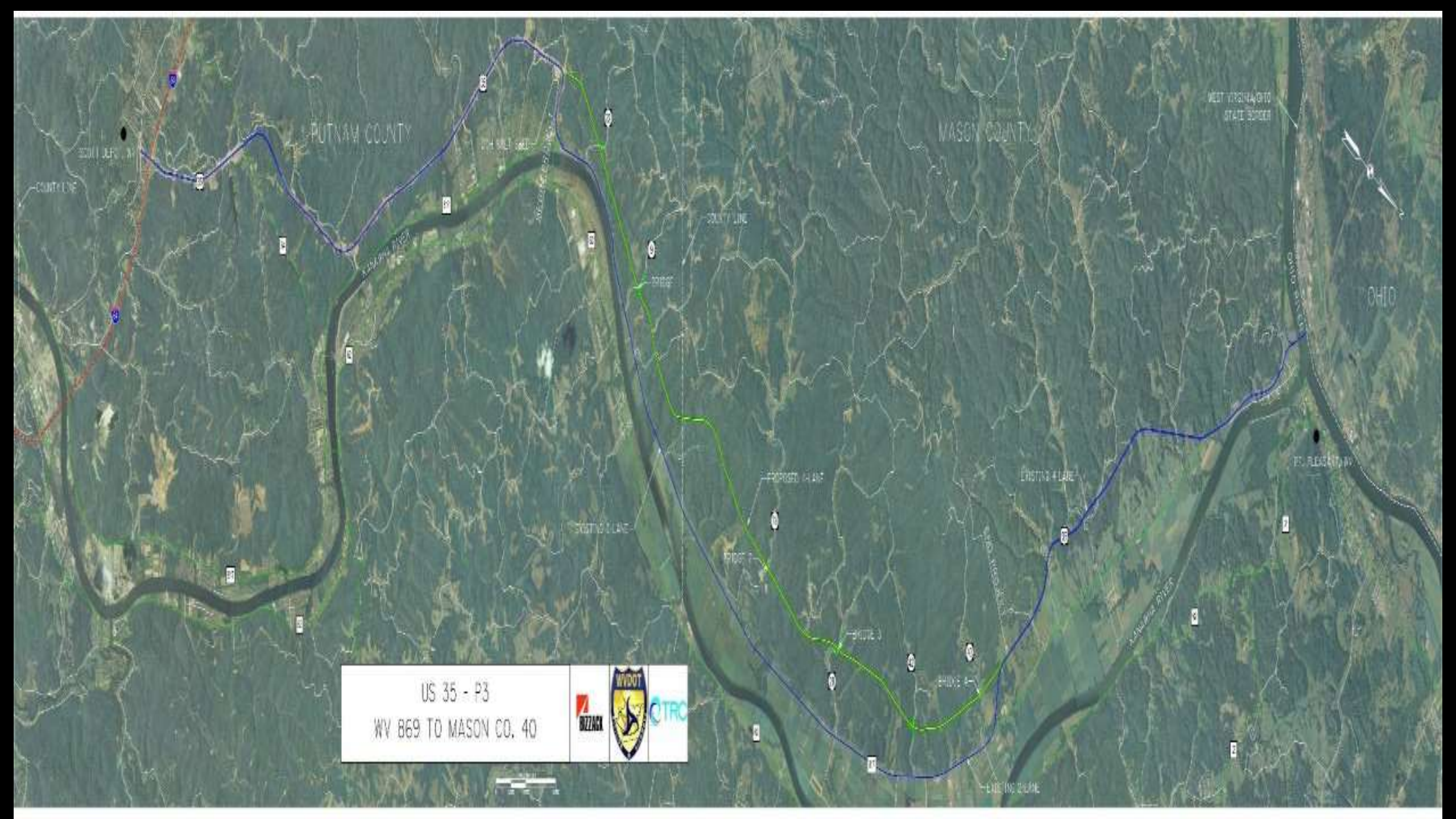


CELEBRATING THE COMPLETION OF US 35

Bob Brookover/ Clif Farley



CLICK HERE
to watch the video



US 35 - P3
WV 869 TO MASON CO. 40





Awarded to
Bizzack
Construction LLC
on June 11, 2015
for **\$174,450,000**



Began cutting
trees by hand
on February 15,
2016.





US Army Corps
of Engineer
Permit was
approved on
May 3, 2016.



Largest single
construction
project in the
state's history.

(At the time of award)



There was 16.8
million CY of
earth moved.





There was 7.3
miles of pipe
installed.

Range from 12"
Polyethylene to
16' multi-plate.





Structural Plate Pipe (SPP)



Structural Plate Pipe (SPP)



Stream Relocation



Stream Mitigation



There are
five sets of
bridges.



US 35 BRIDGES

CR 9 – Plantation Ck. Rd. – 750' long

Access to the new 4- lane.

CR 9 must cross an at grade intersection.

CR 78 – Black Oak Rd. – 550' long

No access to the new 4-lane.

CR 78 goes under the bridge.

CR 29 – Little Sixteen Mi. Ck Rd. – 375' long

Access to the new 4-lane.

CR29 goes under the bridge.

CR 40 – Cornstalk Rd. – 350' long

No access to the new 4-lane.

CR40 goes under the bridge.



Wick Drains – utilized on soft soils under Bridge 3 & 4 abutments



Wick Drains (Continued)





The prime
contractor
had 28
sub-contractors.

*(Approximately 300
workers total.)*



Bridge #1 (CR 9 – Plantation Rd) – Pier #1











Columns and Concrete Beams



Bridge #1 (CR 9 – Plantation Rd) – Pier #4





PAVING PROJECT

Awarded to West Virginia Paving, Inc. for
\$50,966,570

Largest Paving Project in history of the
State of West Virginia

Four-lane consists of two 12-ft. driving lanes, a 10-ft. shoulder, and a inside 4-ft. shoulder in each direction.





PROJECT REQUIRED APPROX.
564,500 TONS
OF ASPHALT

Superpave Materials were used on the overall project.

- ✓ 1 Lift OGFDB 4.00in
- ✓ 2 Lifts 25mm 8.50in
- ✓ 1 Lift 19mm 2.25in
- ✓ 1 Lift 12.5mm 2.00in



West Virginia
Paving and the
WVDOH agreed to
use percent within
limits (PWL)
shadow testing for
the 25mm to
gather data on
increasing Rap to
30%



West Virginia
Paving used 30
percent recycled
asphalt
pavements (RAP)
in two layers of
25 mm, one layer
of 19 mm and 15
percent for the
top course.





Vogele Super 2000-3
track paver was used
for the paving and a
Roadtec Shuttle
Buggy as the material
transfer vehicle.



5 Asphalt Rollers

- 1- Sakai
- 2-Caterpillars
- 2-Volvos
- 1 - Hamm

Some of the Challenges

- ✓ Barging Of Materials
- ✓ Rap
- ✓ Bond Strength
- ✓ PWL
- ✓ Environmental
- ✓ Covid-19



Poca Unloading

- ✓ Scheduling of Materials
- ✓ Rain events

- ✓ River Stage
- ✓ Fog







Total Rap used on project 119,221 tons









We cored 1,734 cores

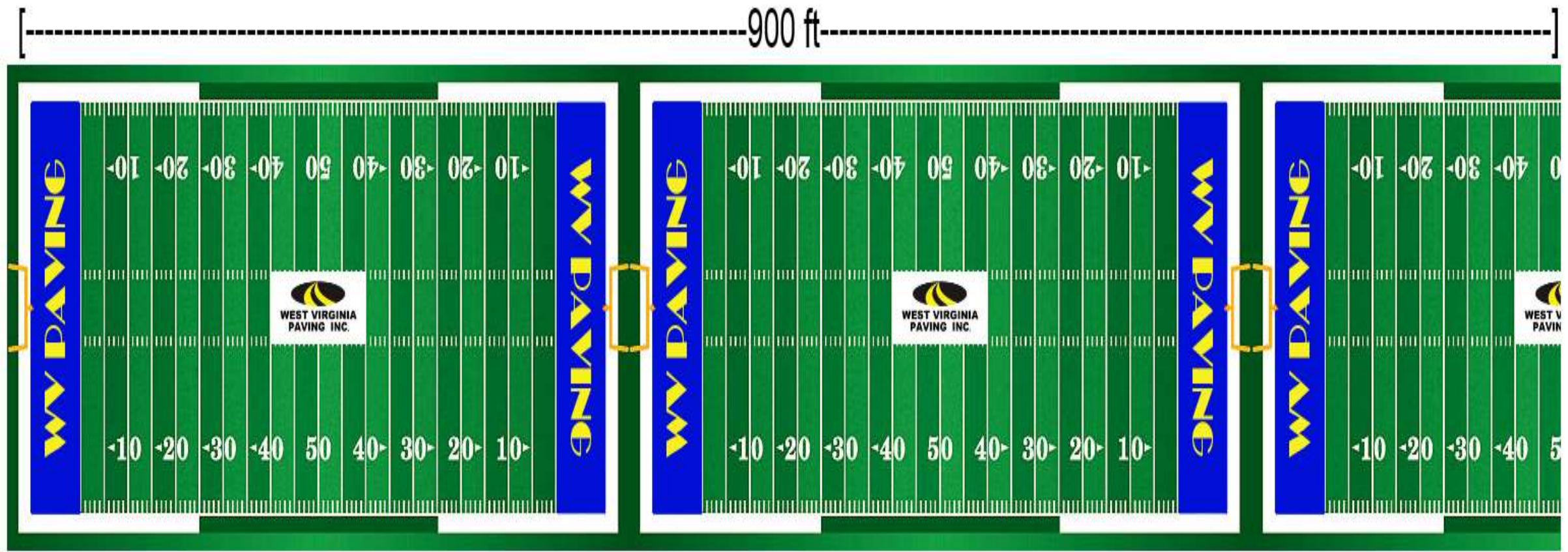
- ✓ Density
- ✓ Bond
- ✓ Joints

Quality Control (PWL)





- ✓ 711 Loose Samples
- ✓ Approximately 4-ton Material



If we took all the cores cut on US Rt. 35 and placed them end to end in a single row they would stretch across 2.5 football fields , including end zones.

- ✓ 300 yards long.
- ✓ 900 feet long
- ✓ If you laid head to toe you would have 150

Bond
Strength







West Virginia Paving, Inc., designed the extension configurations to install the inside four-foot shoulder break.



The paver allowed WV
Paving to
pave in a 28-
foot-wide
single pass.





Elimination of 29.2 Miles of Longitudinal Joint on the whole project.







2.199

3.3%

THE ROAD IS OPEN!





Questions?