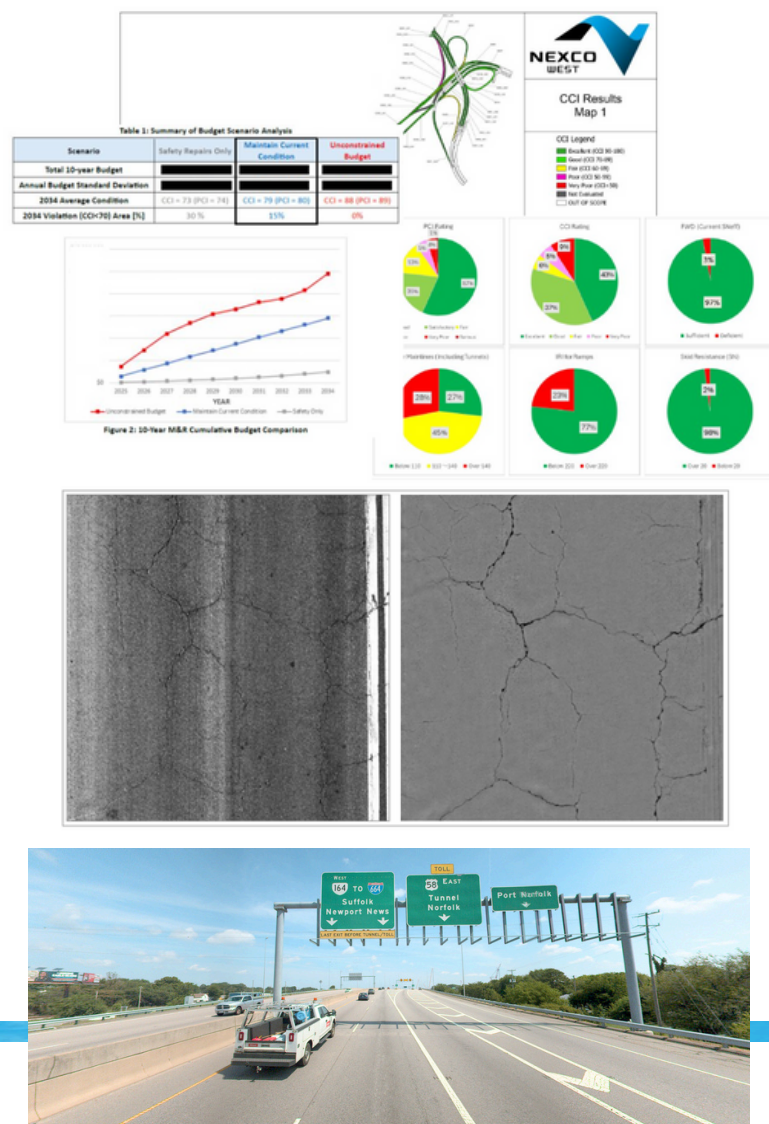


ERC Annual Pavement Inspection and Evaluation 2025

Virginia

NEXCO was engaged by Elizabeth River Crossings (ERC) to deliver the 2025 inspection and evaluation across approximately **38 lane-miles** of mainline highways, ramps, and tunnel pavements in **Norfolk, Virginia**. Our team analyzed four core performance indicators- **surface condition** (PCI and CCI), **ride quality** (IRI), **structural capacity**, and **skid resistance**-using maintenance-based sectioning to align findings with actionable treatments. The result is a **comprehensive network snapshot** with clear performance thresholds set by the public-private partnership (PPP) contract. NEXCO also delivered a **10-year Maintenance & Rehabilitation (M&R) Needs Analysis** with **three budget scenarios**, giving ERC a defensible roadmap to prioritize work, manage risk, and optimize lifecycle costs-while sustaining safety and contractual compliance.



Project Details

- Client : Elizabeth River Crossings OpCo, LLC
- Target Lengths: 38 lane-mile (mainlines, ramps, tunnels)
- Reporting Metrics:
 - Pavement Condition Index (PCI)
 - Critical Condition Index (CCI)
 - Ride Quality (International Roughness Index)
 - Structural Capacity (S_{neff}: Effective Structural Number)
 - Skid Resistance (SN_{40S}: Skid Number at 40 mph)

- Used Technologies: **P**
 - Pavement Transverse/Longitudinal Profiler
 - Falling Weight Deflectometer Testing Vehicle
 - Locked Wheel Surface Friction Testing Vehicle
 - PAVER pavement maintenance management system
- Project Period: June-July 2025