

# POLARIS BRIDGE ENGINEERING LLC

## Structural, Bridge & Infrastructure Engineering Consulting

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**Service Area:** Virginia | Maryland | Washington DC

### Company Overview

Polaris Bridge Engineering LLC is a specialized civil structural and infrastructure engineering consulting firm led by a Licensed Professional Engineer with over 20 years of experience in bridge design, load rating, rehabilitation, NBIS inspection, and large-scale transportation infrastructure projects. The firm delivers high-quality, code-compliant, and contractor-focused engineering solutions aligned with AASHTO, AREMA, ACI, ASCE-7, AISC, and IBC standards.

### Core Competencies

- Bridge Load Rating (LRFR & LFR)
- Bridge Rehabilitation & Retrofit Design
- Highway & Pedestrian Bridge Structural Design
- Structural Damage Assessment & Repair Design
- Temporary Support & Construction Engineering
- NBIS Bridge Inspection & Evaluation
- Commercial Structural Engineering (RTU, Equipment, Retrofit)

### Professional Credentials

- Licensed Professional Engineer: VA, MD, NY, NJ
- FHWA NBIS Certified Bridge Inspector
- M.S. Civil Engineering, Rutgers University
- 20+ Years Bridge & Infrastructure Engineering Experience

### Relevant Experience Highlights

- Large Transit Bridge Rehabilitation Design & Load Rating Programs
- VDOT, DOT, and Major Infrastructure Bridge Projects
- Bridge-Tunnel and Design-Build Infrastructure Projects
- Airport, Transit, and Highway Structure Inspection & Design
- Steel Girder, Prestressed Concrete, Culverts, Retaining Walls, Foundations

### Technical Expertise & Software

CSI Bridge | SAP2000 | MIDAS | LARSA | AASHTOWARE BrR | AutoCAD | MicroStation | STAAD | LEAP Bridge | Mathcad

### Key Differentiators

- 20+ Years Large Infrastructure & Bridge Engineering Expertise
- Multi-State PE Licensure in High-Value DC/VA/MD Market
- Deep Knowledge of AASHTO, DOT, and Infrastructure Standards
- Contractor-Oriented, Practical, and Efficient Engineering Solutions
- Fast Turnaround with High Technical Accuracy