

Transportation Engineering

PS&S provides full-service Transportation Engineering for Bridges, Culverts, and Highways in the public and private sectors. We will take the project from its initial stages and develop it through site evaluation, permitting, preliminary and final designs, bidding and construction. Our focus is on long-term, low-maintenance usability and lower life-cycle costs.



PS&S Can Assist With:

- 1 Highway, Railroad and Pedestrian Bridges**
- 2 Rehabilitated and New Bridges**
- 3 Culverts and Drainage Facilities**
- 4 Custom and Signature Structures**
- 5 Historical Bridge Evaluation and Rehabilitation**
- 6 Integral Roadside Safety Elements (i.e., Guiderail)**
- 7 AASHTO and State DOT Compliance**
- 8 Permitting**
- 9 Inspections**
- 10 Construction Phase**

Sustainable Design

- Conservation of Natural Resources
- Efficient Use of Materials
- Each Site and Structure is Unique for Sustainability
- ISI Envision Certified Professionals on Staff

Value Engineering

- Individual Approach to all Projects for Client/Owner Cost Savings
- No "Force Fit" of Previous Designs, All Sites are Uniquely Different
- Client/Owner Custom Tailored Approach Using Accepted Industry Standards



For more information

Russell D. Cipolla, PE, CME at 856.249.0683 or rcipolla@psands.com

www.psands.com

Bridge and Highway Services

- Initial Site Evaluation
- Environmental Permitting
- Geotechnical Investigations
- Right-of-Way Investigations
- Utility Layout, Coordination, Bridge Crossings
- Bridges and Culverts
 - Single Span to Multi-Span
 - Pre-Cast and Pre-Stressed Concrete
 - Cast-in-Place Reinforced Concrete
 - High Strength Steel
 - Timber – Glued and Dowelled Laminated
 - Aluminum Structural Plate
 - Foundations, Piers, Abutments
 - Pre-Fabricated or Built On Site
 - Designs Conform to All AASHTO and State DOT Requirements
 - Structural Evaluations and Inspections
 - Retaining Walls – Concrete, Pre-Cast, Segmental Block
 - Rehabilitations
- Highway Design
 - State, County and Local Roadway Facilities
 - New Alignments, Reconstruction and Widening
 - Drainage and Full Pavement Designs
 - Pedestrian Safety and Accessibility
- AutoCAD or Microstation Plans
- Construction Specifications



Bridge & Roadway Experience

- Bridge Rehabilitation/Replacement – Multi-Span 180 Feet Long
- Two-Lane Concrete and Steel Bridge Over Active Railroad
- Pedestrian Overpass – 450 Feet Long, 140 Foot Long Main Span
- Twin Box Culverts, 28 Feet Span Each, New Residential Development
- Widening of U.S. Route 30, Road Alignments, Drainage
- Ramp Widening Realignment, Toll Plaza, New York State Thruway
- Realignment of County Roadway Over 1 Mile Long, Turning Lane, Ramps
- New Overhead and Ground Mounted Signage, Traffic Safety Upgrades

Multi-Disciplined Services to Augment and Support Bridge and Highway Design Projects

- Federal, State and Local Permitting
- Remediation and LSRP
- MEP/FP Engineering
- Civil Engineering
- Environmental Compliance/ SPCC
- Cultural Resource Management/SHPO
- Survey
- GIS
- On-Staff Gas Engineering
- T&D Engineering
- Routing Analyses
- Feasibility Analyses
- Substation Design
- Planning
- Geotechnical Engineering



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