# KS Engineers, P.C.

Engineers . Surveyors . Construction Managers

## For All Your Engineering Needs







Inspection of over 300 Sign Structures in Region 11 & Upstate - NYSDOT (2003 - 2006)



Computerized Bridge Information System - NJ Transit

#### About Us

Our extensive record of accomplishments and our award - winning projects have earned KS Engineers, P.C. (KSE) a reputation for being a top-ranked, highly-regarded, client-responsive professional engineering firm. Founded in 1991, we have gained the respect and confidence of our clients by providing technical excellence and quality services throughout New Jersey, New York, and Pennsylvania. KSE is proud to have worked on regionally-significant projects for agencies such as NJDOT, NJ Transit, NJ Turnpike Authority, PANYNJ, NJSCC, NYCDOT, NYSDOT, MTA NYCT, MTA LIRR, MTA MNRR, as well as numerous private clients, contractors, and developers throughout the region. KSE is a certified MBE/SBE/DBE.

#### Front Cover:

Biennial Inspection of Bronx-Whitestone Bridge - MTA Bridge and Tunnels

Condition Survey of Bridges Carrying the Hudson-Bergen Light Rail - NJ Transit

### Agencies / Owners

**Amtrak** 

City of Newark, NJ

Delaware River Joint Toll Bridge Commission

Delaware River Port Authority

Essex County, NJ

Hudson County, NJ

Maryland Transit Administration

Middlesex County, NJ

MTA Bridges and Tunnels

MTA Long Island Rail Road

MTA Metro North Rail Road

MTA New York City Transit Morris County, NJ

New Jersey Department of Transportation

New Jersey Transit Corporation

New Jersey Turnpike Authority

New York City Department of Environmental Protection

New York City Department of Transportation

New York State Department of Transportation

New York State Thruway Authority

Port Authority of New York & New Jersey

Palisades Interstate Park Commission

#### **Corporate Headquarters**

24 Commerce Street, Newark, NJ 07102 Phone: 973 . 623 . 2999 Fax: 973 . 242 . 2955 www.kseng.com

#### Recent Awards & Achievements

Dedicated to quality performance, responsiveness, and technical excellence, **KSE** is proud of its contributions to professional engineering and construction services.

#### Bridge Information System (BIS) - Statewide, NJ

Owner: New Jersey Transit Corporation

Development of Database Application for Centralized Tracking for Inventory,

Costs, Historic Records, and Inspection of Structures

• 2006 Distinguished Award for Engineering Excellence - ACEC NJ

#### Route 18 Extension, Section 2A, Piscataway, NJ

Owner: New Jersey Department of Transportation

Construction Engineering, Administration and Inspection

• 2006 Platinum Award for Engineering Excellence – ACEC NY

2006 Distinguished Award for Engineering Excellence – ACEC NJ

#### Grant Avenue Railroad Bridge, Plainfield, NJ

**Owner:** New Jersey Transit Corporation

Rehabilitation Design of Historic Structures

2006 Silver Award for Engineering Excellence – ACEC NY

• 2006 Distinguished Award for Engineering Excellence – ACEC NJ





- In-Depth Inspection
- Underwater Inspection
- Fathometer Survey
- Scour Analysis
- Bridge Deck Evaluation
- Bridge Management System
- GIS Based Asset Management System
- Structural Analysis & Load Rating
- Non-Destructive Testing
- Emergency Repairs Design
- Construction Engineering



KS Engineers, P.C.



# KSE KS Engineers, P.C.





In-Depth Inspection and Structural Load Ratings of over 300 Fixed & 14 Movable Undergrade Railroad Bridges throughout New Jersey - NJ Transit

our infrastructure matures at a rapid pace, many of our rural and urban bridges, viaducts, and culverts are in need of significant repair or replacement. KSE is performing much needed condition surveys, NBIS, biennial, and structural integrity inspections, load ratings, and fatigue and scour analyses. In addition, we have developed computerized bridge information systems to extend the life of these valuable assets. Our engineers excel in what they do and KSE provides them with the necessary tools and training to make their challenging work exciting and rewarding. In order to save our clients valuable time and money, we constantly adapt to new technologies. Our field professionals use the latest in tablet PCs to produce more efficient, accurate, and consistent inspection field notes, and use wireless broadband Internet access to stay in touch with clients and our main office at a moment's notice. When you close a lane on a major highway or take a track out of service to perform inspection and discover a serious structural flag, the client needs to be notified immediately. Being able to send and receive electronic files and images right from the inspection van has saved our clients thousands of dollars in extra cost. Clients are able to observe the flagged condition while the inspection equipment and MPT are still in place, allowing them to make critical decisions on the spot. Using our Virtual Private Network (VPN) right from the field, our engineers can access a centralized database in the main office to review documents and drawings, necessary for making time-critical decisions. Our services have ranged from the provision of team leaders and full inspection teams to complete project management on minor and major bridges, viaducts, elevated structures, culverts, and sign structures. We have strong credentials as both a prime and subconsultant on infrastructure inspection projects in this challenging region.



Comprehensive Assessment of Line Structures on the Bay Ridge & Bushwick Branches - MTA Long Island Rail Road



Inspection of over 600 Cantilever and Overhead Sign Structures - NIDOT - NYSDOT





In-Depth Inspection of Bridges and Viaducts carrying Staten Island Rapid Transit - MTA / NYC Transit



US Route 1 NB Bridge Over Raritan River, NJ NBIS Inspection of over 1000 Simple & Complex Vehicular Bridges throughout New Jersey - NJDOT



Biennial Inspection and Design of Miscellaneous Structural Repairs at the Marine Parkway & Cross Bay Bridges - MTA Bridges & Tunnels



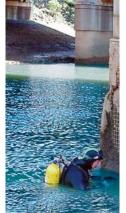
2005 Systemwide NBIS Substructure Inspection - Delaware River Joint Toll Bridge Commission



In-Depth Inspection & Deck Condition Assessment of the Walt Whitman Bridge Suspension and Anchorage Spans - Delaware River Port Authority



- Undergrade Railroad Bridges
- Pedestrian Bridges
- Long Span & Suspension Bridges
- Complex & Major Bridges
- Movable Bridges
- Trestles & Viaducts
- Piers & Bulkheads
- Sign Structures
- High-Mast Light Towers
- Traffic-Signal and Light Poles



Underwater Inspection of bridge Substructure units

- NJTA NYSDOT
- NJDOT NJ Transit
- DRJTBC



NBIS Inspection of over 300 Garden State Parkway Bridges - NJ Turnpike Authority

