MOST TRUSTED ADVISER IN THE TOLL INDUSTRY
HNTB serves as engineering consultant to more tolling agencies than any other firm in the country. HNTB’s expertise is a highly valued resource by clients, industry partners and mainstream media.

With a national breadth of tolling expertise and recognized industry leaders, HNTB provides specialized services and an in-depth understanding of financial and engineering feasibility, toll facilities design, priced managed lanes, toll technology, all-electronic toll conversion, interoperability, operations and solid relationships within the investment banking community and bond markets.
ALL-ELECTRONIC TOLLING

For the millions of customers who use these facilities each day, all-electronic tolling offers safety, convenience and shorter travel times. For agencies, AET offers a way to operate more efficiently and at higher capacities. HNTB helps clients ensure certain factors are in place for AET to be successful.

Sophisticated tolling system is the world's first fully dynamic variable-priced corridor

HNTB was responsible for final civil and structural design services for the world's first fully dynamic variable pricing on 20 miles of I-15. The San Diego Association of Governments' project constructed the express lanes in the median, widened the current two-lane facility to four lanes and added a movable barrier.

HNTB developed initial planning studies, performance requirements and a unique algorithm that updates the price at various entry points every three to six minutes based on traffic levels. Further, HNTB helped draft a request for proposals, as well as evaluate, select and negotiate the toll system integrator's contract. During implementation, HNTB provided oversight for the toll system design, approved commissioning of the system and reviewed and approved testing.
GENERAL ENGINEERING CONSULTANT SERVICES AND PROGRAM MANAGEMENT CONSULTANT

No other firm has provided GEC/PMC services to more turnpikes and toll authority clients nationally than HNTB. HNTB has long-standing, trusted relationships with its clients — some for more than 60 years.

HNTB helps deliver program at record pace

HNTB was the program manager for the Illinois Tollway’s Congestion-Relief Program: Open Roads for a Faster Future, which widened and constructed existing highways, constructed a new 12.5-mile extension of a major corridor and converted 20 mainline toll plazas to open-road tolling in one-fifth of the time it would have normally taken.

HNTB created programwide benefits: implementing the Tollway’s first web-based program management system; incorporating innovations that streamlined program delivery and saved costs; and completing ISO quality audits that ensured compliance with all program requirements. The program was delivered on time and under budget.
ENGINEERING DESIGN SERVICES

In addition to providing innovative planning, GEC/PMC, construction and program delivery solutions, HNTB brings technical excellence with our design engineers and architects who understand the complex design and operations issues that affect a toll agency’s ability to implement projects, large and small. We help clients deliver technically sound projects through our high quality, innovative design efforts that result in quality projects that can be constructed on schedule and within budget.

BUSINESS MANAGEMENT SERVICES

HNTB provides financial and accounting expertise as the industry transitions from traditional toll collection systems to electronic payment systems, assisting with back-office operations, account management, credit card replenishment, pay-by-plate services, violations enforcement and interoperability.

OPERATIONS AND MAINTENANCE

HNTB’s effective management begins with advanced planning and development of operations and maintenance policies, practices and procedures. We help our clients maintain their facilities in a good state of repair.
HNTB helps client bring toll road into the future

HNTB assisted the Harris County Toll Road Authority with its first major overhaul of the Hardy Toll Road since it opened 27 years ago. The makeover, a total of nine projects planned along the 21-mile tollway, added capacity to handle growth in northern Harris County.

HNTB engineered 10 of the bridges, which required widening to accommodate the additional lane. The firm also provided specialty engineering services to salvage and increase the service life of the existing bridge structures, which helped HCTRA avoid significant reconstruction, traffic impacts and loss of revenue. HNTB also prepared the feasibility study and developed the plan to convert the cash system to all-electronic tolling.

REVENUE COLLECTION SYSTEMS

Whether assessing an existing system for minor enhancements, total replacement of a traditional system or implementation of an all-electronic toll collection system, HNTB can assist with development and implementation of technological concepts that maximize customer service, minimize operating costs and provide for accurate auditing and reporting of revenues.
TOLL FACILITIES

HNTB has a long history of assisting toll agencies in dealing with the complexities and transformation of toll facilities and their unique design characteristics. Our capabilities span from architecture to civil design to 3-D modeling.

TOLL ROAD START-UPS

HNTB has assisted more toll agencies in building their organization’s facilities and systems from the ground up than any other firm in the country.

PROCUREMENT SUPPORT

From technical requirements to proposal review and contractual terms, HNTB’s proven industry experts in procurement understand all facets of this critical phase to support owners in the acquisition of systems and operations critical to revenue collection. Whether starting with planning to determine the most advantageous procurement approach or technical advisory and management during development, to proposal reviews or contract negotiations, the HNTB team stands ready with experience in all forms of procurement and up-to-the-minute awareness of the market to drive success.
HNTB helps bring open road tolling to state

Maine Turnpike Authority Open Road Tolling Conversion

HNTB provided project management, traffic planning, civil engineering design, toll system procurement and oversight and construction services for the Maine Turnpike Authority’s toll plaza conversion project in New Gloucester.

As the state’s first open road tolling lanes, the project scope involved removal of four lanes of traditional slow-speed toll lanes from the center of the existing mainline toll plaza on Interstate 95 to make way for highway-speed EZPass-only lanes.

HNTB's expertise helps deliver Florida's largest transportation infrastructure project

I-595 Express Corridor Improvements

HNTB provided construction engineering and inspection for the I-595 Express Corridor Improvements, which squeezes a three-lane reversible expressway into the median and improves frontage roads, ramps and interchanges, including the mainline.

To handle the massive volume of construction, HNTB developed automated witness-and-hold software, which helped efficiently schedule staff and maintain project compliance. HNTB also recommended value-engineering concepts, such as micro piles instead of pipe piles, which significantly advanced work on a complex interchange and reduced impacts to commuters, surrounding businesses and universities.
### COMPREHENSIVE TOLL SERVICES INCLUDE:

#### PLANNING
- Corridor Studies
- Project Feasibility Studies
- Funding/Financing Alternatives
- Traffic & Revenue Studies
- Master Plan Development
- New Agency Organization Planning
- Toll Collection System Planning
- Toll Operations Planning
- Cost Estimates
- Concepts of Operation
- Environmental Studies
- Procurement Strategies
- Public Involvement
- Permit Acquisition
- Grant/Loan Applications

#### DESIGN
- Civil & Structural Engineering
- Long-Span Bridges
- Tunnels
- Architecture Services
- Intelligent Transportation Systems
- Revenue Collection Systems Technology
- Traffic Management
- Right-of-Way Services
- Specialty Engineering
- Capital Cost Estimates
- Operations & Maintenance Cost Estimates
- 3-D Visualization & Graphics
- Website Development
- Context-Sensitive Solutions
- Aesthetics

#### CONSTRUCTION
- Construction Engineering
- Construction Inspection
- Contract Administration
- Claims Management
- Scheduling and Budgeting
- Quality Assurance/Quality Control
- Resident Engineer
- Public Information

#### MANAGEMENT
- General Engineering Consultant
- Program Management
- Design Manager Oversight
- Construction Management
- PPP Owner’s Engineer
- Staff Augmentation

#### OPERATIONS
- Business Operations
- Toll Collection Operations
- Accounting/Auditing/Reporting
- Technology Solutions
- Policies & Procedures
- Operations & Maintenance Engineering
- IT & IT Operations Support
- Safety Engineering
- Security Engineering
- Public Relations & Information
- Traffic Management
- Incident Management & Response
- Performance Metrics & Assessments

#### ASSET MANAGEMENT
- Geographic Information Systems (GIS)
- Bridge/Facilities Inspections
- Annual Condition Reporting
- Trust Indenture Services
- Budget Review & Certification
- Capital Program Planning & Execution
- Maintenance Planning & Execution

#### PRICED MANAGED LANNES
- Policy Planning
- Systems/Network Planning
- Civil Design
- Toll Technology
- Toll Collection/Back Office
- Construction Oversight
- Ongoing Operations