

TRAFFIC ENGINEERING SERVICES



AMERICAN
STRUCTUREPOINT
INC.

Keeping the nation's transportation infrastructure up to speed requires creativity, innovation, and a comprehensive approach that leaves no stone unturned.

Established in 1966, American Structurepoint is one of the most recognized firms in the Midwest. Our staff of 600 professionals includes engineers, surveyors, environmental specialists, right-of-way engineers, construction inspectors, and land acquisition experts who work collaboratively across multiple disciplines to move projects from concept to completion.

American Structurepoint has a wealth of expertise in traffic engineering and urban planning for numerous public and private clients. Our team works creatively to provide more than just traffic engineering services, road and bridge designs, and construction documents. American Structurepoint serves as the foundation for the entire transportation process from concept to design, from traffic studies to traffic signal improvements, and long-range-planning.

Our traffic team, which includes six professional traffic operations engineers (PTOEs), has been involved in the design, operation, and maintenance of countless projects. We specialize in working with limited budgets and stretching available funds to make the biggest impact possible.

Traffic Engineering and Operations Studies

- Interchange justification study (IJS)
- Feasibility studies
- HES funding studies
- Parking supply and demand studies
- Intersection capacity analysis
- Land-use planning and zoning
- Corridor and thoroughfare plan development
- Highway weave analysis
- Roundabout design and operational analysis
- Roadway/freeway segment analysis
- Road safety audits (RSAs)
- Safety studies
- Traffic impact studies
- Traffic operations analysis
- Traffic signal warrant studies
- Traffic management plan
- Traffic management system operation and maintenance
- Traffic signal design
- Traffic signal system and interconnect design
- Traffic signal system timing optimization

Traffic Operations Design

- Complex traffic capacity and operations analysis for existing and proposed infrastructure
- Intelligent transportation system (ITS)
- Lighting design
- Maintenance of traffic (MOT)
- Pavement markings
- Signing
- Traffic count data
- Traffic forecasting
- Traffic modeling
- Traffic signal preemption design, including emergency vehicle, rail crossings, and transit
- Traffic simulation

Traffic Modeling Software Capabilities

- Vistro
- Visum
- Vissim
- Synchro/SimTraffic
- TransModeler
- HCS
- SIDRA

FDOT Traffic Pre-Certified Categories

Group 6: Traffic Engineering and Operations Studies

- 6.1 Traffic Engineering Studies
- 6.2 Traffic Signal Timing
- 6.3.1 Intelligent Transportation Systems Analysis and Design

Group 7: Traffic Operations Design

- 7.1 Signing, Pavement Marking, and Channelization
- 7.2 Lighting
- 7.3 Signalization

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REPRESENTATIVE PROJECTS



SR 44 AT KEPLER ROAD ROUNDBOUT Deland, Florida

Services: Roadway, MOT, Signing and Pavement Marking Design, Operational and Safety Analysis

- » Replacement of existing signalized intersection with a multilane roundabout
- » Complex MOT to construct with no closures
- » Extensive public involvement and education strategy



US 92 AT FISH HATCHERY ROAD INTERSECTION Lakeland, Florida

Services: Roadway, Signing and Pavement Marking Design, Operational and Safety Analysis

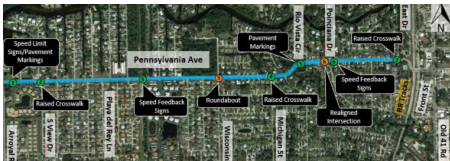
- » Intersection control evaluation (ICE) analysis to improve safety and operations of the intersection
- » Replacement of existing signal at Fish Hatchery Road
- » Access management, safety, drainage, lighting and signing/pavement marking improvements



US 98 PD&E STUDY Lakeland, Florida

Services: Roadway Design, Traffic & Safety Analysis, Planning/Sociocultural Evaluation, Noise Analysis, Public Involvement

- » Added capacity to suburban arterial
- » Context appropriate planning for multimodal improvements
- » Innovative intersection evaluation and design
- » Extensive public involvement and outreach



PENNSYLVANIA AVENUE TRAFFIC CALMING STUDY Bonita Springs, Florida

Services: Traffic & Safety Analysis

- » Residential street with high speeds and injury/fatal crashes
- » Performed spend study and crash analysis
- » Provided a phased implementation plan of recommendations to improve safety and meet budget requirements



RED LINE BUS RAPID TRANSIT (BRT) Indianapolis, Indiana

Services: Environmental Documentation, Land Surveying, Road, Drainage, Signage, MOT, Public Involvement, Utilities, Right-of-Way Engineering, Signals, Parking

- » Leveraged transit signal priority and ITS infrastructure
- » Comprehensive program management services for Phase 1 (13 miles)
- » Detailed parking inventory analysis and revenue study
- » Responsible for design and modifications at 58 signalized intersections including transit, bike and pedestrian accommodations.



TRAFFIC SIGNAL RETIMING EXPERIENCE

- » Experience with various ATMS/controller manufactures
- » PTOE and IMSA certified signal staff
- » FDOT districtwide signal retiming experience
- » Countywide retiming efforts throughout Florida
- » Utilize remote access to maintain signal systems
- » Currently serve as on-call traffic engineers for various cities and counties throughout the country

SMART STREETS INITIATIVE, TWO-WAY CONVERSION South Bend, Indiana

Services: Roadways, Traffic, Lighting, Signage, Landscape Architecture

- » Traffic impact study for a major road diet
- » One-way to two-way conversion for several major roadways
- » Travel demand model created
- » Roadway and traffic signal modification design plans developed for 30+ intersections
- » Retimed 30+ signals for two-way operation
- » Performed citywide (200+ locations) GIS signal system inventory

