

Quality By Design.



Traffic Engineering & Transportation Planning Services



Accommodating today's travel demands as well as planning for the future in a safe and efficient manner is a major concern for communities, metropolitan planning organizations and state transportation agencies. Our certified traffic engineering and planning staff provides innovative solutions to these multi-modal issues.

-  Traffic Demand Modeling & Forecasting
-  Traffic Impact Studies
-  Traffic Signal System Design
-  Benefit / Cost Analysis
-  Parking Studies
-  Intelligent Transportation System Development
-  Computer Traffic Flow Modeling & Animation
-  Pedestrian & Bicycle Accommodations
-  Custom Sign Inventories & Database Applications
-  Traffic Calming
-  Roadway Lighting
-  Roundabout Analysis & Design
-  Visualization



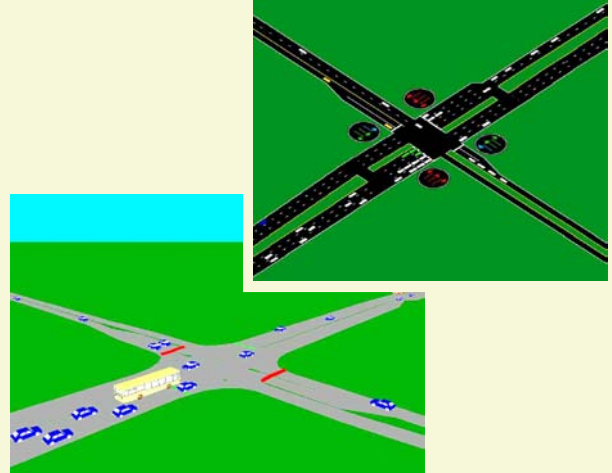
CLOUGH HARBOUR & ASSOCIATES LLP
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"Satisfying our Clients with Dedicated People Committed to Total Quality"



Traffic Engineering

- Traffic Signal Design
- Traffic Signal Systems
- Signing & Striping Plans
- Speed & Level of Service Studies
- Traffic Impact Studies
- Conceptual/Preliminary/Final Design
- Maintenance & Protection of Traffic
- Roadway Lighting
- Access Design
- Traffic Flow Analysis
- Roundabout Analysis & Design



Transportation Planning

- Smart Growth Initiatives
- Sustainable Community Development
- Traffic Demand Modeling & Forecasting (Tmodel2, TRANPLAN, TransCAD)
- Access Management Studies
- Origin/Destination Studies
- Transportation Needs Analysis
- Transit Ridership
- Financial Feasibility & Funding
- Parking Studies
- Benefit/Cost Analysis
- Bicycle/Pedestrian Accessibility & Analysis
- Public Participation Programs
- Traffic Flow Modeling (CORSIM, VISSIM)
- Corridor Studies


Intelligent Transportation Services

ITS System Design Services

- Vehicle Detection
- Video Surveillance Sites
- Incident Management Infrastructure
- Overhead Sign Installations
- System Control Centers

ITS Signaling Systems

- Closed-Loop Monitoring Systems
- Traffic Modeling & System Timing
- Spread Spectrum Radio Communications
- Real-Time Traffic Flow Monitoring
- Networked Signal Controllers



For more information
about how CHA can help you,
please contact
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