

VARIOUS TRAFFIC STUDIES

IDOT D1- Program Management for Various Traffic Studies

- Served as the Program Management Consultant overseeing all traffic studies in the 6 county area of IDOT District One. The work performed includes:
- Managed and reviewed various traffic studies which are assigned and prepared under contract with other consultant engineering firms, including contract administration;
- Reviewed and selected candidate locations for possible inclusion in the Highway Safety Improvement Program (HSIP), including preparation of the annual submittal to the District and Statewide Safety Committees;
- Reviewed and selected candidate locations for possible inclusion in the Congestion Mitigation and Air Quality (CMAQ) Improvement Programs, including preparation of the annual submittal to the Chicago Metropolitan Agency for Planning (CMAP);
- Managed and tracked project-level costs, schedules and budget requirements, and coordination with District personnel;
- Facilitated regular progress meetings and briefings for Illinois Department of Transportation (IDOT) including Federal Highway Administration (FHWA) where details of project and progress are presented;
- Performed reviews and analysis as required to respond to public letters and web-mails concerning traffic issues (typically involved requests for crash studies, warrant analysis, signal timing reviews, speed studies, capacity analysis, guardrail analysis);
- Performed Traffic Counts including analysis of peak hour and 24 hour traffic.

Old McHenry Road at Robert Parker Coffin Road – Intersection Evaluations/ Modern Roundabout

- Preliminary engineering included traffic studies and design services for a Modern Roundabout option which consisted of traffic counts, pedestrian studies, accident analysis, geometric studies, drainage evaluations, utility studies, signal warrant analysis, intersection capacity (RODEL Methodology) and an IDS. This specific design addressed context-sensitive issues as an alternative to a traffic signal on this highly traveled route through the densely developed historic downtown. Design alternatives included evaluations of the existing four-way stop, a new traffic signal with added left turn lanes, and a modern roundabout.

Downtown Long Grove – Pedestrian, Parking, and Traffic Study

- The study included pedestrian, parking and vehicular traffic evaluations and recommendation in order to better address long range planning as part of an overall revitalization plan for Historic Downtown Long Grove. Weekday and weekend demand for parking in this commercial area were evaluated. A key component to the study included evaluation of pedestrian movements throughout the downtown area to better determine desired pedestrian crossing types and locations. Also included were traffic evaluations including traffic patterns for delivery trucks. Critical issues included enhancement of a pedestrian friendly, walk-able community while accommodating the vehicular traffic. The overall study included recommendations for future redevelopment and for inclusion in the Master Plan for the region and as a

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basis for the design of a Modern Roundabout to facilitate both vehicular and pedestrian traffic patterns in this highly traveled historic downtown area.

US 45 Bypass at the Millburn Historic District Study

- The Phase I Engineering Design services were provided for the study of a US Route 45 bypass of the Millburn Historic District, near the intersections of Grass Lake Road and Millburn Road in North Central Lake County, Illinois. The project required the evaluation of a full range of reasonable alternatives including the No-Build alternative, a detailed evaluation of potential environmental impacts, and close coordination with the Illinois Department of Transportation and the Federal Highway Administration. The scope of services included the preparation of a project Crash Analysis Report based on current HSIP guidance, and the evaluation and recommendation of pavement rehabilitation needs for the overall proposed improvement.

Illinois Route 58 Improvements, Rolling Meadows, Illinois

- The project included traffic studies, intersection design studies, Preparation of a Project Development Report for IL Route 58, preparation of an Access Justification (Modification) Report for I-290, Preliminary Engineering, and Construction Document Preparation. The proposed project was within a highly developed commercial/light industrial corridor with forest preserve / and section 6f property directly adjacent to the south. The I-290/IL Route 53 interchange facility was also evaluated due to the amount of traffic related to adjacent development, and the request to modify the intersection configuration at the intersection of IL Route 58 with the I-290/IL Route 53 East Frontage Road. The improvements to IL Route 58 consist of widening the existing facility by adding one through lane in each direction. Auxiliary turn lanes at on IL Route 58 and cross streets and access drives are also proposed with traffic signals location modified to facilitate capacity and arterial progression. Drainage consideration included significant improvement to the existing system and evaluations of the sensitive Salt Creek outlet.

I-55 West Frontage Road at Caton Farm Road, Joliet

- Design and Planning Engineering services were provided to the City of Joliet for the intersection improvement and widening of Caton Farm Road at the I-55 West Frontage Road. Key project issues included safety and traffic studies intersection design studies, traffic signal design and the widening of approximately one mile of Caton Farm Road with Will County Storm Water Ordinance compliance. Project included traffic evaluations; warrant analysis, intersection design studies and traffic signal design were included for this critical intersection in Joliet. Project involved MFT funding

REPRESENTATIVE SERVICES PROVIDED:

- Traffic Impact Studies
- Signal / All-Way Stop Warrant Analysis
- Capacity Analysis
- Accident Analysis
- Intersection Design Studies
- Preparation of Plans, Specifications and Cost Estimates

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