

ALGONQUIN ROAD (IL-25 TO IL-68) IN KANE COUNTY AND COOK COUNTY PHASE I - ENGINEERING AND ENVIRONMENTAL

CLIENT:
Epstein

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CONTRACT:
Illinois Department of Transportation PTB 181 - Item 1

PROJECT PURPOSE:

- Plan about 5 miles of improvements along Algonquin Road (IL-62)
- Evaluate geometric modifications and intersection changes
- Investigate intersections for signal warrants and signal modernization
- Conduct traffic counts, crash analysis, cost estimates, and other studies
- Facilitate public involvement through Context Sensitive Solutions (CSS)

DAMA Consultants, Inc., worked with the the prime consultants, Epstein and Clark Dietz, Inc., to evaluate existing conditions along 5 miles of Algonquin Road (IL-62) between Elgin Road (IL-25) and West Dundee Road (IL-68) in Kane County and Cook County. The roadway passes through the Spring Lake Forest Preserve and currently has angled intersections at Bateman Road and Helm Road.

DAMA evaluated existing roadway deficiencies and improvement alternatives and developed alternative geometric designs. DAMA used the Open Roads and AutoTURN 10 software packages to create profiles and new alignments, corridor designs, and cross sections. The roadway improvements and turning radii were designed to accommodate 50mph to 60mph speeds and different vehicle types.

Future roadway is designed to meet projected 2040 travel demands. Proposed alternatives include intersection changes at Bateman Road and Helm Road and a center median and auxiliary turning lanes at some locations.

