

# I-80/US Route 45 Interchange Reconstruction



## PROJECT DESCRIPTION

Ciorba Group was selected by the Illinois Department of Transportation (IDOT) District One to prepare the final design plans and specifications for the reconstruction of the existing cloverleaf interchange at I-80 and US Route 45 in Mokena, Illinois. The improvement also included the reconstruction of US Route 45 from 191st Street to 179th Street. Ciorba Group had previously prepared the preliminary engineering study and Project Development Report for the improvements.

Improvements consisted of removing the eight existing interchange ramps (cloverleaf) and replacing them with six new ramps forming a four quadrant partial cloverleaf, Type A interchange. The reconfigured interchange included the construction of two new signalized intersections where ramps met US Route 45. The new geometry took

into consideration minimizing right-of-way acquisition from properties adjacent to the northeast and southwest quadrants of the interchange.

A new horizontal alignment for US Route 45 was designed to improve the sight distance at its intersection with 179th Street and to eliminate the need for superelevating the proposed pavement through the interchange.

Other improvements included in the design were substructure rehabilitation and complete superstructure replacement of the bridge carrying US Route 45 over I-80, modernization of the existing traffic signals at the 179th Street intersection, storm water detention, erosion control, landscaping, pavement markings, signing and striping and maintenance of traffic plans.

### LOCATION

Will County, IL

### CLIENT

Illinois Department of Transportation,  
District One

### CONTACT

Mr. Ken Eng, PE  
Interim Bureau Chief  
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### CONSTRUCTION COST

\$21 Million

### PROJECT TEAM

Project Manager  
Mark Johnson, PE, PTOE

### SCOPE OF SERVICE

▶ Final Design

