

KIRK ROAD AT AVERILL ROAD

Client: City of Geneva

Averill Rd serves an industrial park to the east and a residential subdivision to the west. The project consisted of adding northbound and southbound right turn lanes, signaling the intersection and integrating the intersection into the existing signal system.

A traffic study was prepared to determine future traffic volumes during the AM and PM peak hours. A number of options were analyzed to determine the optimal lane configuration for the east leg due to the offset between the east and west legs and signal phases to accommodate the lane configurations and anticipated traffic volumes.

The chosen lane configuration was a combination westbound thru/left lane and a westbound separate right turn lane. This aligned the thru lanes across Kirk Rd. and provided a separate lane for the heavy right turn movement. The signal phasing provided northbound/southbound protected only lefts, a lead westbound left, thru, right phase and a westbound right turn overlap. Pedestrian detection and signal heads were installed on the north leg and the west leg.

- Project future traffic volumes
- Analyze lane configuration options
- Analyze signal phasing options
- Intersection Design Study
- Traffic signal design

