

## RAIL

### Rail

Deployed consultants to locations in Rochester, NY, or Melbourne, FL, depending on the client's needs  
Provided specialized experience in specific divisions, including RAMS and AutoCAD  
Facilitated international collaboration between US and Canadian offices through ALTEN Technology

#### KEY TOOLS & TECHNOLOGIES

Pack Office, Microsoft Office, Adobe Acrobat PDF, RAMS, AutoCAD

#### TEAM SIZE

Up to 4 Engineers

#### TIME

2016 – 2018

#### LOCATION

Rochester, NY & Illinois

#### TIME & MATERIAL PACKAGE

**ALTEN TECHNOLOGY**

## RAIL CORRIDOR SIGNALING SYSTEM

### OVERVIEW

ALTEN Technology supported our client as it updated a vintage signaling system.

The system includes 15 station tracks with platform access that service an average of 40 million passengers a year. In total, ALTEN Technology has helped our client on 180 signals, 250 switch machines, and 40 km of circuited track. Thanks to ALTEN Technology, the vintage system was successfully updated to modern standards.

### PROJECT DETAILS

- Updated the existing signaling, electrical, and communications equipment to modern standards, replacing the 80-year-old vintage electromechanical unit-lever signaling system housed in three separate control locations
- The system covers more than 4,000 possible train switching routes within 6.4 km
- The system includes 180 signals, 250 switch machines, and 40 km of circuited track signaling bungalows networked together through two redundant fiber rings
- The system includes 10 additional bungalows for the electrical powering needs of the equipment
- Developed a fully integrated, redundant, vital microprocessor-based signaling system
- Integrated subsystem operations to a centralized control system
- Identified, minimized, and contained operational impacts of failures

