PSA
PROFESSIONAL SOFTWARE ASSOCIATES, INC.

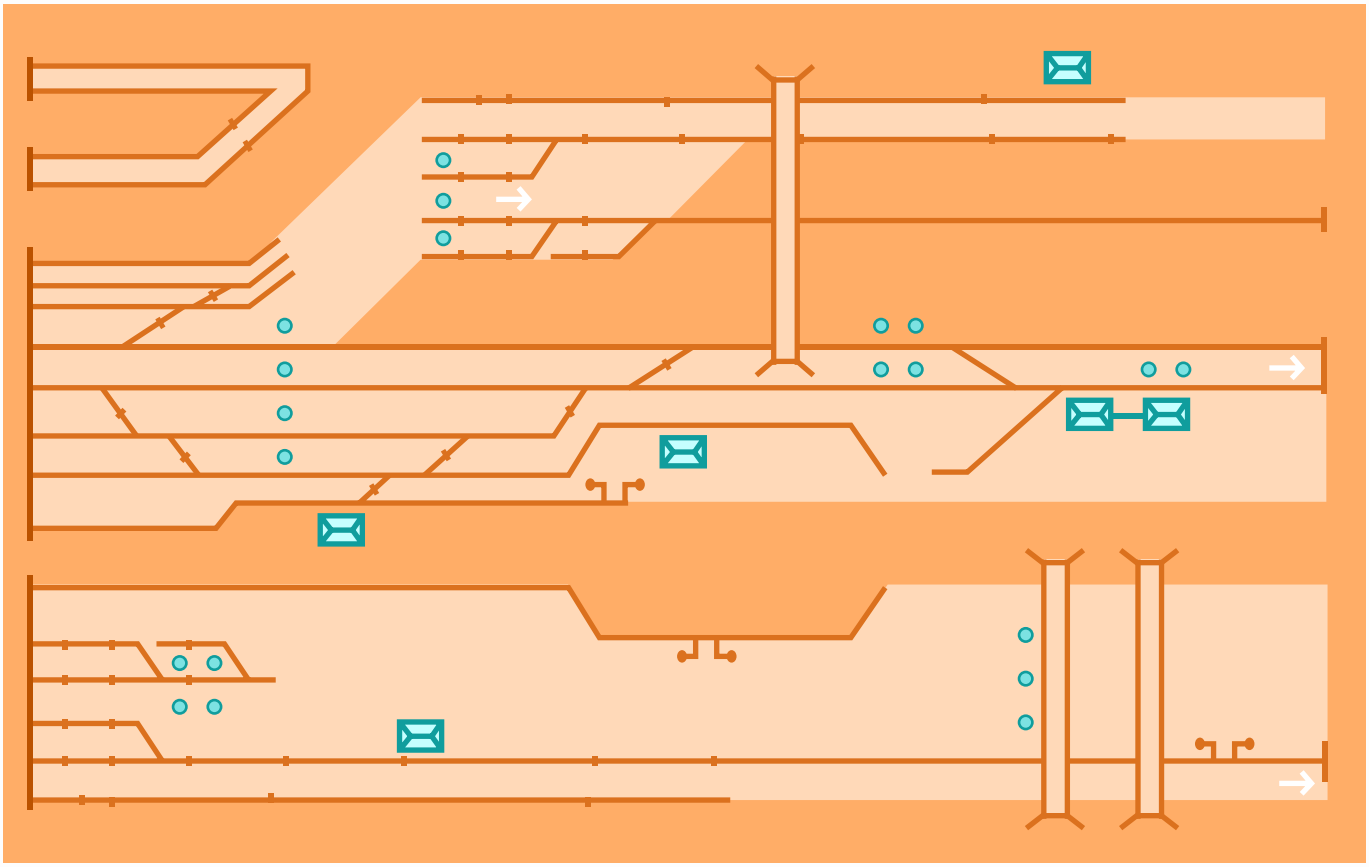
CBTC FOR THE RAPID TRANSIT

Datasheet

PROVIDING SOLUTIONS FOR TOMORROW – SINCE 1993

Project objective

Assist the client in building a CBTC system for a rapid transit line. Integrate the Microlok II system into the existing 15.5 miles of the rail infrastructure. The Solid State Interlocking system shall provide all control logic necessary to monitor vital inputs from CBTC system and vital relays, interface with other vital systems as necessary, interface with non-vital systems as necessary, process vital logic, and deliver vital control outputs for all interlocking and interface functions in a vital, fail-safe manner.



Result

The PSA team has ensured the reliable and safe operations of interlockings within CBTC system over the whole rail line (15.5 miles). New equipment is located in existing houses.

Scope of work

- Book of plan to support Microlok II integration with hot standby across the whole line
- Tie-ins with tunnels, crossings, and snow melters, axle counter train detection
- Applications to execute interlocking logic on every rail location
- Temporary circuits to provide seamless migration to the CBTC system without stopping the transportation processes
- Datasheets to execute FAT and SAT
- Onsite commissioning in conditions of Day-Night switching. Removing inconsistencies found during testing

Activities

- Hardware Design
- Cutover Book of Plan
- Power Calculations
- Software Design
- Documentation Creation
- Field Test Support

About the project

Technologies

- Microlok II
- MicroLok Object Controller
- Axle Counters

Project size

- 1 Technical Coordinator
- 1 Project Manager
- 2 Signaling Engineers
- 1 Technical Writer
- 1 Technical Assistant

Duration

37 months