

INDIANA TOLL ROAD FIBER OPTIC NETWORK & ITS TECHNOLOGY



NETWORK DESIGN,
BUILD and O&M



INTELLIGENT
TRANSPORTATION



FIBER OPTIC
NETWORK



ITS DEVICE
DEPLOYMENT



COMMERCIALIZATION
& ROW DEVELOPMENT

The Indiana Toll Road is a 157-mile, limited access toll highway that spans Northern Indiana along I-80/I-90 from the Ohio border to the Illinois state line. Operated and maintained by the ITR Concession Company (ITRCC), the Indiana Toll Road offers travelers a safe, convenient route to their destination with more than \$200 million in infrastructure and technology upgrades since 2015.

Building on its commitment to deliver a safe travel experience for its customers, employees and community, the ITRCC recently expanded its fiber optic network backbone to support new technologies aimed at improving highway safety and communication. The ITRCC selected eX² Technology to design and build more than 85 miles of conduit and fiber optic cable as part of its continued infrastructure expansion program as well as install ITS devices along the entire 157-mile route and many electrical service connections. The completed system offers the ITRCC the ability to provide advanced incident messaging to travelers, monitor traffic flows and reduce speeds, when necessary.

eX² Technology installed and integrated 20 closed circuit television (CCTV) cameras, 13 dynamic message

signs (DMS) and a wrong way detection system (WWDS) on ITR exit ramps. The WWDS includes detection, “Wrong Way” signs with flashing LEDs and an alert that is broadcast to the advanced traffic management system at the ITRCC Control Center. Mainline and ramp toll plazas were integrated onto the fiber network to serve as the primary communications route back to the ITRCC Administration Building in Elkhart, Ind.

During project execution, eX² worked closely with the ITRCC to develop a plan to add duct and dark fiber capacity to the fiber optic system to provide a future revenue stream for the ITRCC by commercializing this excess capacity. The ITRCC expanded eX²'s scope of services to include the marketing and maintenance of its new and existing communications infrastructure assets.

Additionally, eX² Technology is in the process of designing, deploying and integrating a truck parking information management system. The truck parking system will connect and monitor a dozen truck parking sites and dynamic message signs to provide truckers with real-time information on available truck parking spaces across the Toll Road corridor.



TRANSFORMING
AMERICA'S INFRASTRUCTURE
ONE PARTNERSHIP AT A TIME™

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