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 ITR Concession Company (ITRCC), the Indiana Toll Road offers travelers a safe, convenient route to their destination for the millions of people who travel the Toll Road annually.

Building on its commitment to deliver a safe travel experience for its customers, employees and community, ITRCC recently expanded its fiber optic network backbone to support new technologies aimed at improving highway safety and communication. 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 and electrical service connections along the entire 157-mile route. The completed system offers 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.

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

Additionally, eX² Technology designed, deployed and integrated a truck parking information management system. The truck parking system connects and monitors 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™

eX² Technology LLC
Phone: 402.817.7970
marketing@ex2technology.com
www.ex2technology.com

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