**T-REX I-25 Project, DENVER, COLORADO**

**VALUE DELIVERED**

A $1.67 billion highway project and light rail transit line development in the Denver metropolitan area, intended to improve the quality of life for area residents and commuters, requires considerable technical expertise as well as sophisticated project management and execution. Under a multimillion contract, Dynalectric assisted in the electrical design and is installing all electrical systems — power, lighting and signals — along 19 miles of I-25. The project entails installation of a complex Intelligent Transportation System (ITS) and power, lighting and signal work for a new Light Rail Transit (LRT) line, including raceways for the traction power substations, signal and communications houses along with complete parking garages and commuter platforms along the length of the project.

**SCOPE OF WORK**

In addition to providing power, lighting and signals for the 19-mile roadway expansion, Dynalectric’s installation includes over 800,000 feet of conduit in underground concrete encased duct banks for the LRT main line power and communications, which runs the entire length of the project. Electrical work is being done at 13 train stations, 16 substations, 10 park-n-ride lots and three parking structures. Modifications will be made to 15 existing train platforms. ITS work consists of installing over 400 CCTV cameras, an arterial vehicle detection system, instant messaging signs, loop detectors and communications devices that are monitored by CDOT and eight separate jurisdictional facilities to help monitor traffic flow. Services include:

- Electrical Design Assistance & Contracting
- Equipment Installation & Maintenance
- Planning & Consulting Services
- Value-Engineering

**OPERATING COMPANY:**
Dynalectric Company – LA & CO joint venture

**CLIENT:**
Colorado Department of Transportation / Regional Transportation District

**GENERAL CONTRACTOR:**
The Southeast Corridors Constructors and Kieways & Parsons Transportation Group joint venture

**ARCHITECT:**
CDOT / RTD

**ENGINEER:**
Parsons Transportation Group

**PROJECT DURATION:**
August 2001 — September 2006

**CONTRACT AMOUNT:**
Over 100 Million

**TECHNICAL SOLUTIONS**

- Relationships
- Quality Service
- VALUE ENGINEERING
- Experience
- Project Schedule & Coordination

**EXPERTISE**

- New Construction
- Retrofit
- Electrical Construction
- Mechanical Construction
- Facilities Services
- Consulting Services

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BACKGROUND

The Transportation Expansion (T-REX) is a citizen-endorsed, community-supported project led by the combined efforts of the Colorado Department of Transportation (CDOT) and the Regional Transportation District (RTD), working with their federal partners, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), along with various counties, cities and jurisdictions.

The T-REX Transportation Expansion of Highway I-25 is being developed by the Colorado Department of Transportation (CDOT) along with the Regional Transportation District (RTD). This unique working agreement also includes cooperation between two federal agencies; The Federal Highway Administration (FHWA) and Federal Transit Administration (FTA). CDOT, RTD, FHWA and FTA agreed to work together in a similar manner that embodies a “One DOT” approach. CDOT, RTD and the federal management team coordinate efforts on the T-REX Project. CDOT oversees highway construction in the region and the RTD is responsible for all transit projects.

OBJECTIVES

CDOT and RTD have jointly undertaken a project to improve mobility in the Denver region by adding light rail service to a 19-mile “Y” corridor between the downtown area, Lone Tree and Aurora, Colorado. To create the route upon which the light rail line will travel, upgrades to the highway shoulder capacity and improvements to existing shoulders were required. The project also necessitated new on/off ramps, acceleration and deceleration lanes, improved lighting and replacement of or improvements to highway bridges and interchanges.

SOLUTIONS

Dynalectric implemented a number of strategies to enable CDOT/RTD to achieve its goals:

- **The Right Equipment** — Dynalectric will install over 800,000 feet of conduit in underground concrete encased duct banks for the LRT main line power and communications.

- **Advanced Technology** — the Intelligent Transportation System entails complex systems installation, including CCTV cameras, automatic vehicle detection equipment, instant message signs, loop detectors and other communications devices.

- **Lighting Expertise** — over 500 new permanent light fixtures will be installed on bridges, walkways and along the 19-mile corridor of the project, using center post lighting.

- **Coordination** — For the LRT alone, more than 65 points of service, including redundant and alternate power feeds, were coordinated between SECC, CDOT, RTD, Xcel Energy, seven city governments and three county jurisdictions.

- **Teamwork** — Dynalectric Los Angeles Transportation Group teamed up with the local Denver office to estimate and construct the project. Weekly team meetings were held to speed up the design process and keep the project schedule on track.

- **Cost Control** — Dynalectric continues to work with Xcel Energy on reducing costs by installing the Xcel conduits and providing the directional boring on the project.