

Quebec Street Improvements

Thornton, CO



Client

Talon Pointe Metropolitan District

Scope of Services

Surveying

Roadway Design

Drainage Design

Intersection Improvements

Construction Drawings

Construction Staking

Manhard Consulting provided engineering and surveying services to the Talon Pointe Metropolitan District for roadway improvements to approximately 1 mile of Quebec Street from 152nd Avenue to State Highway 7, located within the City of Thornton.

Manhard Consulting prepared detailed final drawings for the construction of the east half of Quebec Street to be built to the City of Thornton's 4-lane arterial section. Manhard worked closely with the City of Thornton throughout the design process to ensure that future planning considerations were taken into account. This included providing interim condition construction plans for half of a 4-lane arterial section as well as ultimate condition planning drawings for a 6-lane major arterial section with a raised median.

Manhard contacted and worked with utility companies and adjacent landowners to establish ultimate locations for water lines, natural gas pipelines, electric, phone and fiber optic lines in an effort to eliminate the need for future relocation. In addition, major drainage basins were evaluated in ultimate build-out conditions in order to design and construct storm sewer within Quebec Street that will serve the needs of the area for the foreseeable future.

The design of the Quebec Street improvements required changes to the existing intersection with State Highway 7. These improvements included pavement widening and re-striping of the intersection in order to provide proper storage, acceleration, and taper lengths per State Highway and AASHTO requirements. Manhard worked with Adams County, the City of Thornton and CDOT to obtain access permits for work within CDOT right-of way.

The final product of the design process produced construction drawings that allowed for the immediate needs of the community to be met while planning for future growth.