

Coyote Creek Mine Structural Plate Underpass | Beulah, ND

Twin Barrel 42' Dia. Structural Plate Sections

Owner

Coyote Creek Mine

Contractor

Baranko and Wanzek Construction

Application

These structures were constructed to eliminate an at-grade crossing thus allowing large coal haul trucks to pass under a county road.

Why corrugated steel structures from TrueNorth Steel?

Speed of erection and cost. This system could be installed quicker and at a lower installed cost than a bridge of comparable size. Structural plate offers owners and engineers a versatile and durable system for almost any bridge, bridge replacement, culvert or underpass application.

Project challenges

Weather challenges: rainy weather in the early stages of the project, then snow and freezing temperatures. The structure had to be mated up to precast concrete panel retaining wall on each end. Fly ash was utilized for a portion of the backfill.

Special/unique elements of the project:

This project was constructed on heavy clay foundation soils which would have required extensive piling for a conventional bridge.



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