

## Norman County Drain Concrete Pipe Arch Extension | Norman County, MN

### CSP Aluminized Steel Type II 12 Ga. Combination Round and Pipe Arch

**72" Round on One End and 85" x 59" on the Other End with Bulkhead Adapter to RCP Pipe Arch**

#### Owner

Norman County Water Resource District

#### Contractor

Norman County Highway Department

#### Consulting Engineer

Norman County Highway Department

#### Application

Concrete pipe had to be extended and CSP was chosen to reduce the installed cost of the extension. The county chose corrugated steel pipe.

#### Why corrugated steel pipe from TrueNorth Steel?

Corrugated steel pipe offered the best combination of installed cost, design life and ease of installation

#### Project challenges

Mating up concrete pipe with corrugated steel pipe shape required a fabricated connection.

#### Special project elements

Extension of concrete pipe and concrete box culverts with corrugated steel pipe is becoming more common as owners seek ways to extend their budget.

#### Other TNS products used

Steel bulk head plate



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