

Silverton Addition

135th Street Culverts

Proposed Jamesburg culvert

Drainage Area = 3.4 acres

$$Q = CiA$$

$$Q = (0.7)(7.37)(3.4) = 18 \text{ cfs}$$

Flowmaster = *24in RCP*

Normal depth = 1.84 feet

Critical depth = 1.56 feet

Proposed Ridgepoint Culvert

Drainage Area = 5.6 acres

$$Q = CiA$$

$$Q = (0.7)(7.37)(5.6) = 29 \text{ cfs}$$

Flowmaster = *30in RCP*

Normal depth = 2.16 feet

Critical depth = 1.87 feet

The existing culverts north of the Ridgepoint Culvert shall be removed and the existing ditch be regarded to allow drainage to continue to the south.