



CITY OF RAPID CITY

Engineering Services

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MEMORANDUM

TO: Robert Ellis, Public Works Director

FROM: Keith Johnson, Project Administrator

DATE: April 4, 2008

RE: Design Report
Elk Vale Road Sanitary Trunk Sewer Extension
Project SS07-1658 CIP #50686

The above-referenced design report is an extensive study of the gravity sewer basins north of the Rushmore Industrial Park and east and west of Elk Vale Road. The recommended improvements will provide trunk sewer mains, which will be adequate in size to serve the sewer basins and the upgraded Elk Vale Lift Station for many years.

A summary of the design report's recommendations is listed below:

Lower Outfall Sewer: Construct a 24" to 27" sanitary sewer main beginning south of Highway 44 and extending northerly to the intersection of Elk Vale Road and Concourse Drive. The estimated cost for this portion of the project is \$558,646.31

Concourse Drive Sewer: Construct a 10" to 15" sanitary sewer main beginning at the intersection of Elk Vale Road and Concourse Drive and extending north in Concourse Drive to Copperfield Vista Subdivision. The estimated cost for this portion of the project is \$820,682.44

Elk Vale Trunk Sewer: Construct an 18" to 24" sanitary sewer main beginning at the intersection of Elk Vale Road and Concourse Drive and extending north along Elk Vale Road to the Sewer Force Main located north of Anamosa Street. The estimated cost for this portion of the project is \$1,254,331.36.

The Lower Outfall Sewer and the Concourse Drive Sewer will need to be constructed in 2008 to provide sewer service to Copperfield Vista Subdivision. The Elk Vale Trunk Sewer will need to be constructed concurrent with the upgrade of the Elk Vale Lift Station and Force Main.



EQUAL OPPORTUNITY EMPLOYER