



# CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701

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## Public Works Department Engineering Services Division

300 Sixth Street

Phone: 605-394-4154 Fax: 605-355-3083

TO: Terry Wolterstorff and Public Works Committee  
FROM: Brandon Quiett  
Engineering Project Engineer  
DATE: July 24, 2012  
RE: Infrastructure Acceptance  
Dyess Utility Extension (16" water main) – STA 1+00.00 to STA 24+06.17  
DEV12-1079

Terry,

This letter is to confirm that the Dyess Utility Extension (16" water main), has been completed, tested, as-builts have been submitted, warranty surety has been received, and the project can be accepted.

Per rapid City Ordinance 12.04.170(B):

*"Infrastructure Acceptance - The Public Works Director shall place on the Public Works Committee agenda an action item recommending acceptance of infrastructure when the project as a whole is ready for acceptance."*

If you have any questions please let me know.

Sincerely,

Brandon Quiett, P.E.  
Project Engineer



PROJECT: DYESS WATERLINE EXTENSION (STA 1+00 TO 24+06.17)

PW073112-25

INSPECTOR: MIKE WILKENING

Specifications	Testing Requirement	Method of Verification	Completed
Utility Excavation and Backfill (Section 11), Embankment (Section 14)	Compaction testing - to be taken a minimum of every 200' horizontally and 3' vertically. NOTE: If material changes in the field, contact testing agency to provide new proctor test for material being used.	A minimum number of _____ tests shall be taken for this project. Testing reports shall be provided at the pre-paving meeting.	yes / no / N/A
	Undercut or scarify roadway embankment per Geotechnical Report recommendations.	Discuss the proposed means and methods with City inspector prior to construction. City inspector shall verify.	yes / no / N/A
	A pre-paving meeting shall be held prior to placement of base course	Call City inspector to schedule. Inspector shall verify sub-grade through proof rolling or other means.	yes / no / N/A
Granular Material - Base Course (Section 20)	Base course shall be placed in maximum of 4" lifts	Perform minimum of one compaction test per 4" lift, or as directed	yes / no / N/A
Portland Cement Concrete Pavement (Section 60)	For sidewalk and curb and gutter, a minimum of one test shall be performed per each day of pouring, or as directed.	Testing shall include slump, air content, 7 day strength (minimum 1 cylinder), 28 day strength (minimum 2 cylinders). Provide results to City inspector prior to project acceptance.	yes / no / N/A
	For concrete pavement, a minimum of one test shall be performed per 250 LF of pavement or as directed.	Testing shall include slump, air content, 7 day strength (minimum 1 cylinder), 28 day strength (minimum 2 cylinders). Provide results to City inspector prior to project acceptance.	yes / no / N/A
Asphalt Concrete (Section 31)	Submit a mix design from the batch plant with a standard density (Marshall)	Performed minimum of one (1) non destructive (nuclear gauge) test per 200 tons of asphalt or as directed.	yes / no / N/A
Water Piping System (Section 8)	High end chlorine test - 25 ppm minimum	Call City inspector when you want to charge the line. City inspector shall verify the high end chlorine concentration.	yes / no / N/A
	Low end chlorine - wait at least 24 hrs and no more than 48 hours after the high end chlorine is confirmed, to flush the line until a minimum of 1 ppm or background chlorine concentration is observed.	Call city inspector to discuss the method and location of flushing. City inspector shall confirm the low end chlorine concentration.	yes / no / N/A
	Pressure testing - test line at 150% of the normal working pressure for a minimum of 2 hours. The pressure shall not vary by more than 5 psi.	Call city inspector to verify beginning pressure and start time of the test. The City inspector shall witness the pressure at the end of the 2 hours.	yes / no / N/A
	Coliform bacteria test - Performed after flushing	Provide test result to City inspector prior to project completion	yes / no / N/A
	Cathodic test station reading	Call City inspector to schedule	yes / no / N/A
	Inspection of valves	Call City inspector to schedule	yes / no / N/A
	Test tracer wire	Call City inspector to schedule	yes / no / N/A
Sanitary Sewer (Section 9)	Low pressure air test - per specifications	City inspector shall witness	yes / no / N/A
	Manhole vacuum test - performed per specs and prior to placing casting	City inspector shall witness	yes / no / N/A
	Pipe deflection testing - after 30 day a mandrel test shall be performed	City inspector shall witness	yes / no / N/A
	TV or Camera pipe	Call City inspector to schedule	yes / no / N/A
Storm Sewer (Section 54)	TV or Camera pipe	Call City inspector to schedule	yes / no / N/A
THIS LIST IS INTEND FOR GENERAL GUIDANCE, AND IS BY NO MEANS COMPREHENSIVE - FOR DETAILS ON TESTING AND CONSTRUCTION SPECIFICATIONS REFER TO CITY OF RAPID CITY STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2007 EDITION			

gm:\Development\services\Subdivisions\SUBS\000 FORMS\Testing and Inspection\Testing cheat sheet

BRANDON GUETT