



CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701

Public Works Department Engineering Services Division

300 Sixth Street

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MEMORANDUM

TO: CIP Committee, Mayor Kooiker, City Council

FROM: Dale Tech PE/LS, City Engineer

SUBJECT: Pavement Condition Index (PCI), Street Rehabilitation

DATE: April 20, 2012

All streets in the City of Rapid City are evaluated every two years utilizing a national standard called the PCI. Streets are given an index ranging from 0 to 100, with 100 being the best and 0 being the worst. The last evaluation was performed in the fall of 2011. The PCI is used to determine the method of treatment for streets such as street rehabilitation or complete reconstruction.

Street rehabilitation consists of various treatments to extend the life of streets that are in good condition. Treatments consist of chip seals, overlays and micro surfacing. Street rehabilitation costs 10% of the cost of complete reconstruction.

City utilities, water and sewer, often drive the reconstruction of streets. Typically one half the total costs for the reconstruction of a street will be spent on utilities. For instance, if the street funding portion of a project is 2 million dollars an additional 2 million will be spent on utilities.

As part of the 2012 budget, the Consumer Price Index (CPI) was taken to provide funding for community needs. A portion of the CPI was directed to be used for street maintenance. It is anticipated that most of the CPI for street maintenance will be used for improvements the numerous railroad crossings that are in poor condition.



EQUAL OPPORTUNITY EMPLOYER

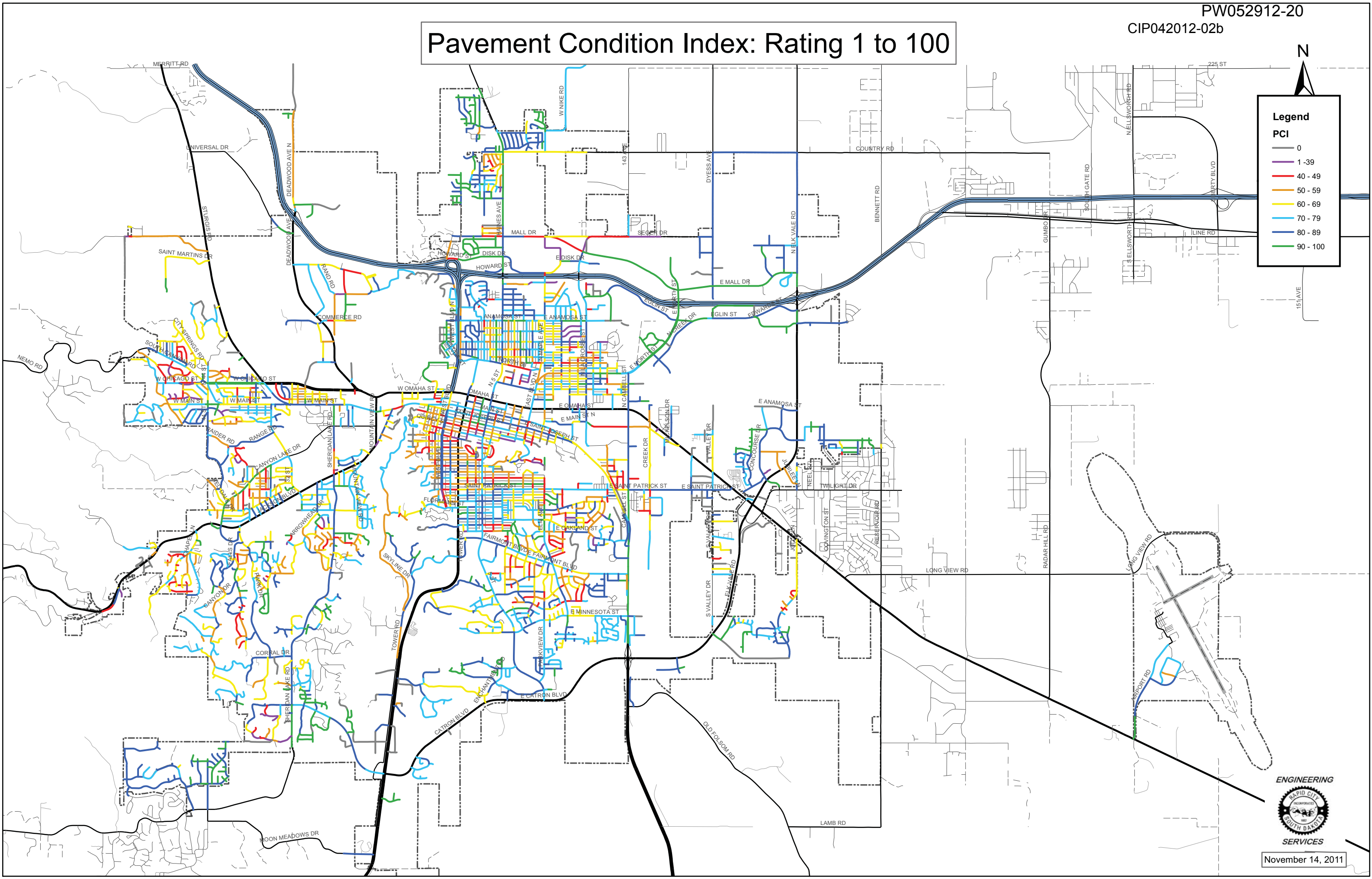
Pavement Condition Index: Rating 1 to 100



Legend

PCI

- 0
- 1 - 39
- 40 - 49
- 50 - 59
- 60 - 69
- 70 - 79
- 80 - 89
- 90 - 100



November 14, 2011

Public Works - Infrastructure Budgets

Fund	Revenue Source	2010	2011	2012	2013	2014	2015	2016	2017
CIP - Streets, Drainage, MIP	Sales Tax	\$ 6,780,394	\$ 6,848,198	\$ 6,916,680	\$ 6,985,847	\$ 7,265,281	\$ 7,555,892	\$ 7,858,128	\$ 8,172,453
Water	Enterprise Fund	\$ 7,288,404	\$ 7,511,400	\$ 7,807,856	\$ 8,116,170	\$ 8,436,817	\$ 8,770,289	\$ 9,117,101	\$ 9,477,785
Sewer	Enterprise Fund	\$ 3,661,423	\$ 3,807,880	\$ 3,956,195	\$ 4,110,443	\$ 4,270,860	\$ 4,437,695	\$ 4,611,202	\$ 4,791,651
.16 Street Rehabilitation	Sales Tax	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
.16 Utility	Sales Tax	\$ 2,000,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000
STCM	General Fund	\$ 600,000	\$ 600,000	\$ 762,000	\$ 868,000	\$ 868,000	\$ 868,000	\$ 868,000	\$ 868,000
Urban Systems	SD DOT	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
		\$ 21,830,221	\$ 22,267,478	\$ 22,942,731	\$ 23,580,460	\$ 24,640,958	\$ 25,431,876	\$ 26,254,431	\$ 27,109,889