

Memorandum

City of Lawrence

Public Works

TO: Mark Thiel, Assistant Director Of Public Works – Infrastructure Management
David P. Cronin, P.E., City Engineer

FROM: Steven M. Lashley, P.E., Project Engineer – Infrastructure Management

DATE: May 16, 2014

RE: Response to Critical Street Maintenance Needs – Example Pictures

Critical Street Background

The City has goals of maintaining street pavements above a Pavement Condition Index (PCI) rating of 65 for Arterial, 60 for Collector, and 55 for Residential streets. Streets that fall below these criteria (unacceptable or “fair to poor condition”) represent approximately 20.6% or 1.1 million square yards (170 lane-miles) of City street pavement. For example, to only mill and overlay these streets, the cost would be nearly \$18 million. This does not take into account reconstruction and geometric improvement costs associated with needed Capital Improvement Projects.

Consideration must also be given to the needs/ costs to replace 260,000 linear feet of poor curb, preventative maintenance, and impending replacement costs of streets near the end of their pavement life cycle. Examples of maintenance program project cost increases include addition of parking lots, alleyways, bus turnouts, and traffic video detection systems/ ITS. To add, we have been actively incorporating complete streets elements such as traffic calming devices and improved pedestrian and bicycle facilities (sidewalks, ramps, shared-use paths, bike lanes/ additional pavement markings).

I have included example pictures of pavement distresses and poor curb & gutter on the following pages.

Kasold Dr, W 6th St to Bob Billings Pkwy (Arterial, PCI = 61.5)



Iowa St, Kingston Dr to Princeton Blvd (Arterial, PCI = 47.6)



Iowa St south of Princeton Blvd (Residential, PCI = 29)



N Iowa St, Peterson Rd to Kresge Rd (Arterial, PCI = 58.95)



Lakeview Rd, N Iowa St to Kasold Dr (Arterial, PCI = 53)



Kasold Dr, W 22nd St to Clinton Pkwy (Arterial, PCI = 56.75)



Overland Dr, Monterey Way to Eldridge St (Residential, PCI = 52.3)



Legends Dr, Wakarusa Dr to Research Park Dr (Collector, PCI = 54.8)

