Street Maintenance and Rehabilitation in Twenty First Century

Presentation to 21st Century Taskforce

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Current ¼ Cent Program
What was PROMISED

- Implement $3 million per year on Street Maintenance (Slurry Seal, Micro-surfacing, etc.)

- Implement $10 million per year on Street Rehabilitation (Mill and Inlay or Reconstruction)

- Using this money to rehabilitate fair / poor / very poor roadways (2690 lane miles) into a “good” condition.
Street Maintenance Program
What is the FUNDING

QUARTER CENT FUNDING IS 81% OF TOTAL PROGRAM
Current ¼ Cent Program
What was DELIVERED

- Since implementation of this Program in 2000, the City has used the funding to rehabilitate 2330 lane miles.

- Before 2010 the City will use available funding to rehabilitate approximately 500 additional lane miles.

- TOTAL LANE MILES MAINTAINED (est.) = 2830,
  TOTAL LANE MILES PROMISED     = 2690
Current ¼ Cent Program
What is the RESULT

THE PROGRAM IS
VERY SUCCESSFUL !!!!
New / Rehabilitated Bike Trails

Constructible bike trail miles = 41 ($7.8 million)
Rehabilitated bike trail miles = 30 ($2.4 million)
Projected bike trail miles = 6 new, 4 rehabilitated per year
New / Rehabilitated Sidewalks

- Constructed sidewalk miles* = 46 ($10.4 million)
- Rehabilitated sidewalk miles* = 143 ($10.8 mil)
- Projected sidewalk miles = 34 new, rehabilitated depends on future funding

* Sidewalk miles estimated by total sy of concrete installed with new construction and rehabilitation projects
New Roadway Lanes

Total new miles constructed (2000–2007) = 479
Total estimated new miles (2008 – 2014) = 434
Total City investment = $150 million
Roadway Lanes Maintained

- Total Lane Miles Maintained = 2333
- 899 Mill & Inlay, 152 Heater Repave, 810 Slurry, 472 Micro
- Total Investment (00-07)=$128 mil

Lane Miles DEPENDS ON FUTURE FUNDING
Value of Current Roadway System

Value of current roadway system is $1.7 Billion
Pavement Maintenance Plan

New or “Excellent” rated roads should have only minimum maintenance over next 10 years (1709 out of 4900 lane miles)
Pavement Maintenance Plan

Roads with a current rating of “good” will need a micro seal in approximately six years (1484 out of 4900 lane miles)

Min. Acceptable Rating = 55 (Fair)

Increase due to Maintenance

Rads with a current rating of “good” will need a micro seal in approximately six years (1484 out of 4900 lane miles)
Pavement Maintenance Plan

Roads with a current rating of "fair" will need a micro seal or a rehabilitation in approximately two and/or six years (870 out of 4900 lane miles).

All roadways currently rated "poor" or "very poor" will need a rehabilitation in the next two to three years (839 out of 4900 lane miles).
Pavement Maintenance Plan

Summary

New and “excellent” rated roadways = 1709 lane miles with little to no maintenance need

“Good” rated roadways = 1484 lane miles with 1 maintenance cycle needed  $8.5 Million

“Fair” rated roadways = 870 lane miles with 2 maintenance cycles or 1 rehabilitation cycle needed $42.5 Million

“Poor” and “Very Poor” rated roadways = 839 lane miles with 1 rehabilitation cycle needed $142.5 Million

Total Maintenance need $193 Million
Pavement Maintenance Plan

Assumptions:
$3 million per year ($6 million GO) with 4% inflation

* Based on the Surface Defect Index (1999 - 2007)
Street Maintenance and Rehabilitation in the Twenty-first Century
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Thank You