

Public Safety and Transportation Committee

Agenda

April 20th, 2006

(6:00 – 7:30 PM)

Transportation Project Updates:

- 16th Avenue South Improvements & Proposed New Part Time, Limited Term Position
- Marine View Drive
- 2006 Landslides
- Saltwater Bridge
- Other Projects
 - Pacific Highway South
 - S. 216th St. and 24th Ave. S.
 - Wesley Homes Traffic Signal
 - North & South Twin Bridge
 - Kent Des Moines Road
 - Neighborhood Traffic Calming Program

Transportation System Management - Pavement Management System

- 2006 Overlay Program
- Pavement Management System - Engineering
- Pavement Management System - Treatments
- Costs to Maintain Pavements Over Time
- 2006 Levels of Investment
- Recent History
- Pavement Management System – 2007 and Beyond

Sound Transit Phase 2

- Alignment
- Station Location

Grant and Loan Status & Schedules

- Public Works Trust Fund Loan
- Community Development Block Grant
- TEA-21 Countywide Project Competition
- Transportation Improvement Board
- Highways & Local Programs

Comprehensive Transportation Plan (time permitting)

- Review & Updates

Next Meeting Agenda Items (May 11th)

- Transportation Project Updates
- Transportation System Management – Traffic Management System
- Comprehensive Plan - Transportation Element
- Comprehensive Transportation Plan
- Draft 2007-2012 6 Year Transportation Improvement Plan (TIP)

Grant and Loan Schedule

Public Works Trust Fund Loan
Community Development Block Grant
TEA-21 Countywide Project Competition
Transportation Improvement Board
Highways & Local Programs
ESHB 2871

Public Works Trust Fund Loan

- Call for Projects March
- Must be GMA Compliant
- Applications Due May 8th

Project:

- 16th Avenue South
 - Amount Requested: \$1,335,000.00

Community Development Block Grant

- Call for Projects March 31st
- Pre-Application Required
 - Submitted on April 14th
- Final Applications due May 31st
 - Applications must be Authorized by City Council
 - Agenda Item for May 11th

Project:

- S. 216th Street Sidewalk Project – Phase 1
 - Provide sidewalk on the north side of S. 216th St. from Wesley Homes to Marine View Drive
 - \$310,000 Project Estimate
 - \$225,000 Requested

TEA-21 Countywide Project Competition

- 3 Year Funding Cycle (2008-2010)
- Countywide STP & CMAQ Funds ~\$30 M
 - Larger Jurisdiction Program ~\$24 M
- Call for Projects May 10th
- Applications due June 1st

Potential Projects:

South 216th Street
Kent Des Moines Road

Transportation Improvement Board

- Call for Projects June 1st
- Funding Workshop June 6th
 - Tukwila
- Applications Due August 31st
- Funded Programs: TBD

Potential Projects:

Design: 16th Avenue South – Phase ??

Construction: KDR 16th Ave. S. to 24th Ave. S.

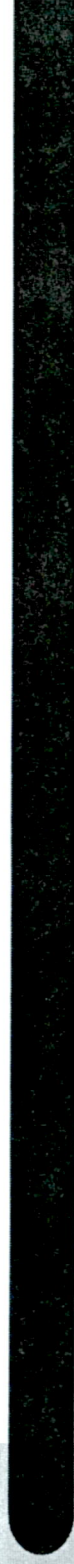
Highways & Local Programs

- Two Funding Programs
 - Pedestrian and Bicycle Safety
 - Safe Routes to Schools
- No BRAC (Bridge) funding available until 2009
- Call for Projects Late May
- Applications due late summer

Potential Projects:

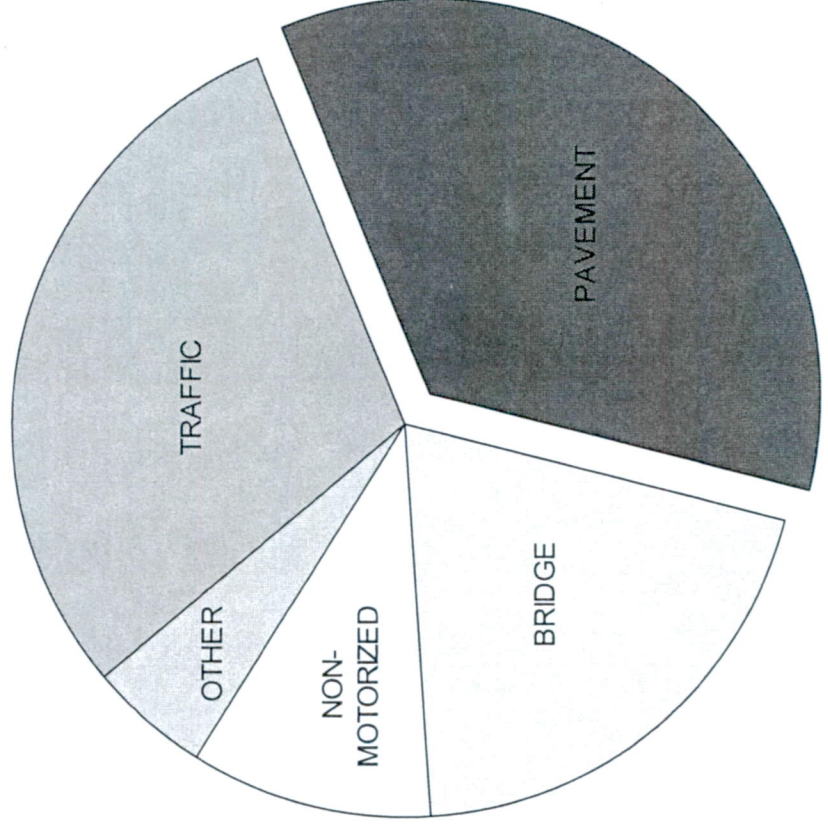
Not yet evaluated

ESHB 2871



- Allows Cities to create Transportation Benefit Districts
- Vote of the public?

Transportation System Management



Pavement Management System

2006 Overlay Program
Pavement Management System - Engineering
Pavement Management System - Treatments
Costs to Maintain Pavements Over Time
2006 Levels of Investment
Recent History
Current Trend
Pavement Management System – 2007 and Beyond



2006 Overlay Program

- Project locations currently under design

Priority Sections

S. 200th St. (5th Ave. S. → East leg of 8th Ave. S.)
12th Ave. S. (S. 268th St. → S. 272nd St.)
S. 216th St. (14th Ave. S. → 18th Ave. S.)
S. 260th St. (20th Ave. S. → Pacific Hwy. S.)
14th Ave. S. (S. 212th St. → S. 215th Pl.)

Total Improvement → 1.18 CL Miles

Estimated Cost → \$435,500

Alternate Sections

16th Ave. S. (S. 225th St. → 17th Ave. S.)
10th Ave. S. (Marine View Dr. S. → S. 281st St.)
S. 223rd St. (13th Ave. S. → 15th Ave. S.)
Marine View Dr. S. (S. 264th St. → S. 265th St.)
Soundview Dr. S. (Redondo Way S. → 6th Pl. S.)
26th Ave. S. (S. 240th St. → S. 242nd St.)

Total Improvement → 0.97 CL Miles

2006 Overlay Program

- Project Schedule:
 - 60% submittal May 5th
 - 90% submittal May 26th
 - Advertise in late June
 - Bid Opening in July
 - Construction in early fall (at best)

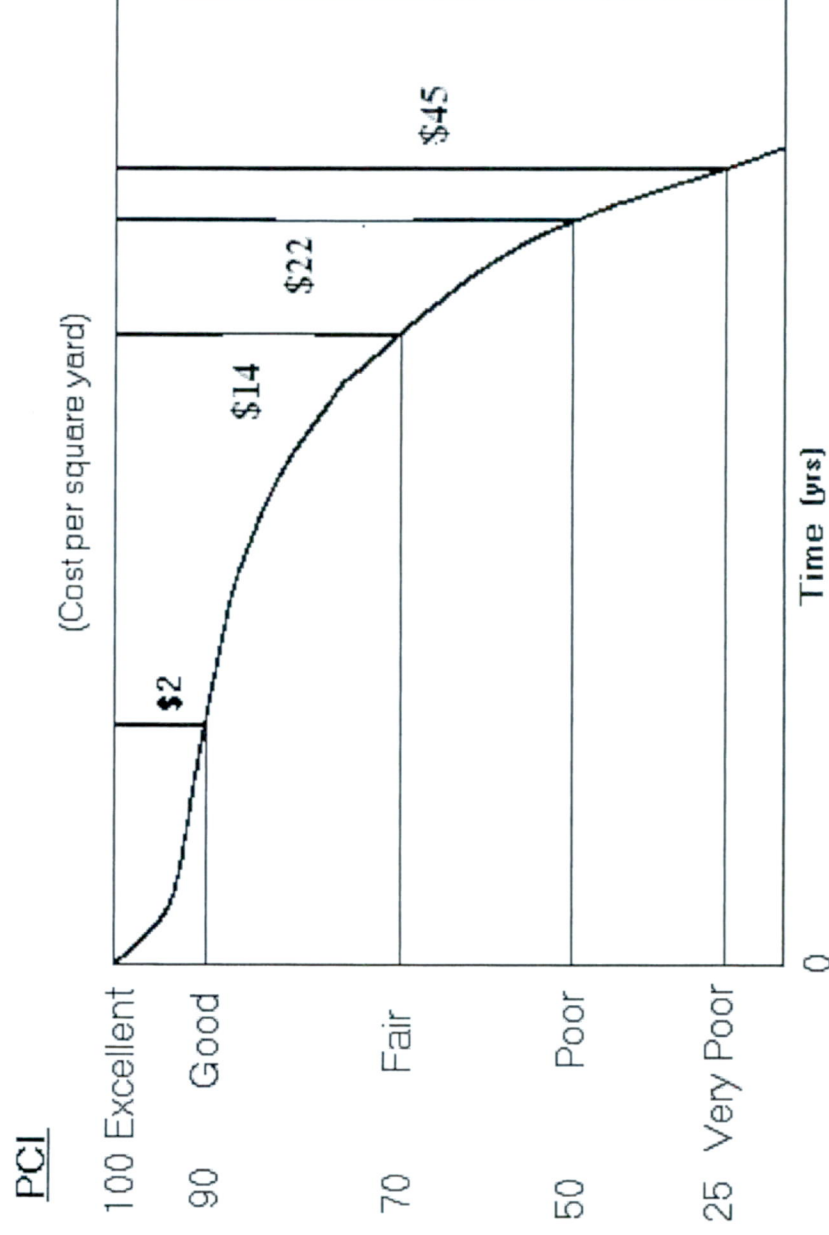
Pavement Management System Engineering

- Data collection
 - Up-to-Date Pavement Ratings
- Evaluation and Selection
- Design - Fall
- Construction – Spring
- Controls on Utility Cuts
- Pavement Life 20-25 Years
(With Proper Maintenance)
- Chip seal adds 7-10 years to Pavement Life

Pavement Management System Treatments

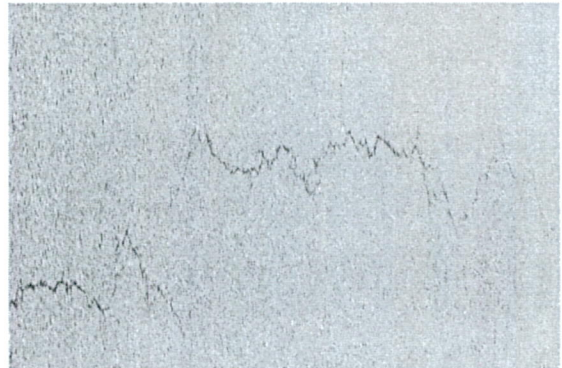
- Routine Maintenance
 - Potholing, Crack Sealing, Patching
 - Grading of gravel roads and shoulders
 - Drainage/Ditch cleanup
- Preventative Maintenance
 - Grader Patch
 - Slurry Seal
 - Chip Seal
- Restoration and Reconstruction
 - Overlays
 - New sub-base and pavement

PMS Treatments Costs To Maintain Pavements Over Time



Graphic by Northwest Management Systems

Preventive Maintenance



Crack Seal

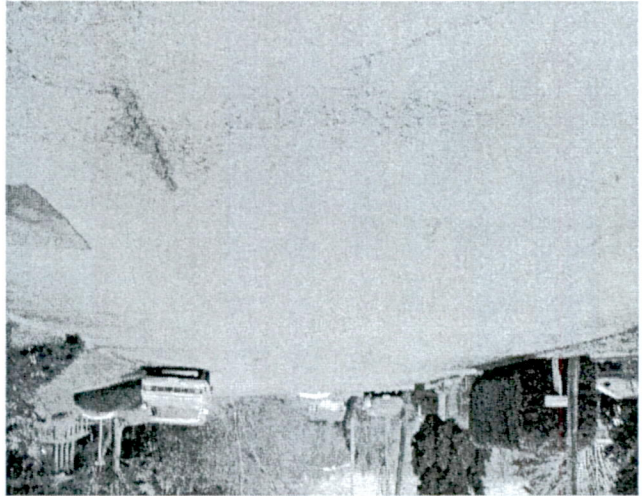
This pavement is generally in good condition and would benefit from crack sealing to prevent water from entering the subbase and causing further deterioration.

Slurry Seal

This pavement would benefit from a Slurry Seal treatment. It is generally in good condition but is aging and beginning to lose aggregate and asphalt binder.



Overlay & Reconstruction

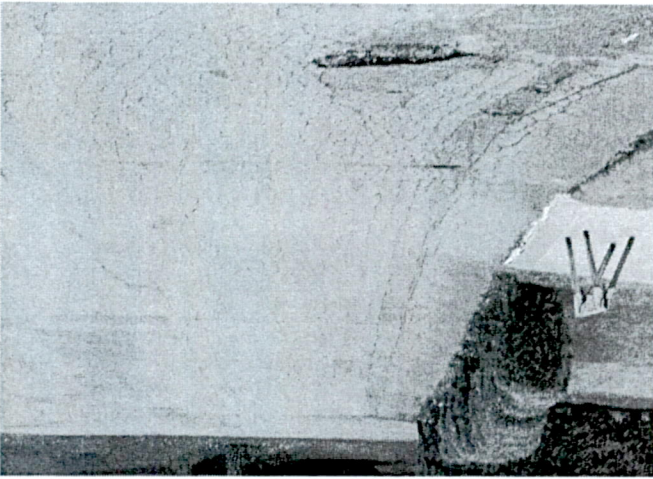


Overlay

This pavement is in poor condition (PCI 48) with a few areas of alligator cracking that should be structurally patched before it is resurfaced with an asphalt overlay.

Reconstruction

This pavement is in very poor condition (PCI 7) with severe alligator cracking, potholes, and areas of settlement. This street should be rubblized, regraded, and reconstructed with new subbase material and asphalt pavement.



2006 Levels of Investment

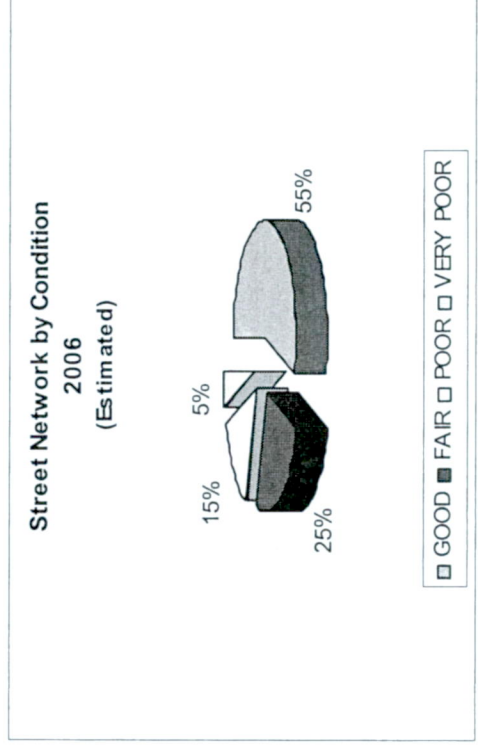
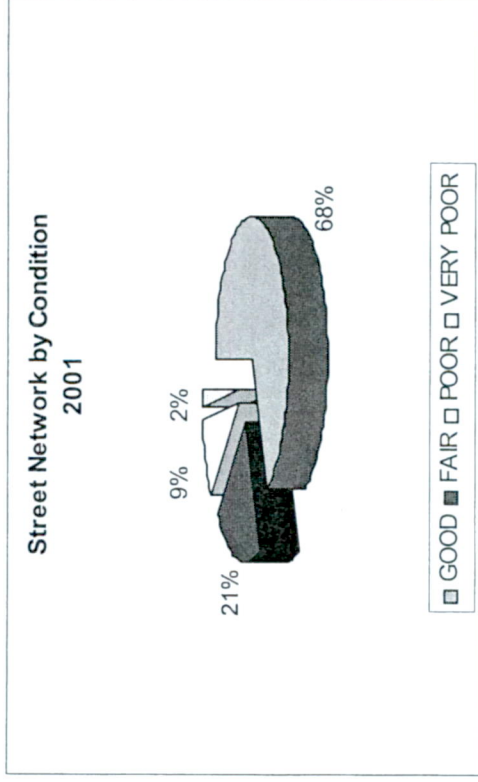
- Routine Maintenance Budget
 - \$12,000 (Materials for City Maintenance)
 - \$25,000 (Contract Services as needed)
- Preventative Maintenance
 - \$0
- Restoration and Reconstruction
 - \$800,000 (Design and Construction)

Pavement Management System Recent History

Year	2002	2003	2004	2005	2006	2007	Total	Deferred Maintenance
Baseline Funding Levels	\$300,000	\$650,000	\$675,000	\$700,000	\$725,000	\$750,000	\$3,800,000	\$8.4 M
Resulting PCI	76	75	74	74	73	72		
Actual Appropriations	\$300,000	\$350,000	\$500,000	\$800,000	\$800,000	\$800,000	\$3,550,000	
Actual Improvements	\$221,665	\$259,347	\$0	\$651,919	\$715,000	\$715,000	\$2,562,931	~ \$10 M
Best Case PCI (Estimated)	75	73	71	69	68	67		
Treatment Used	Overlay	Chip Seal	None	Overlay	Overlay	Combination		

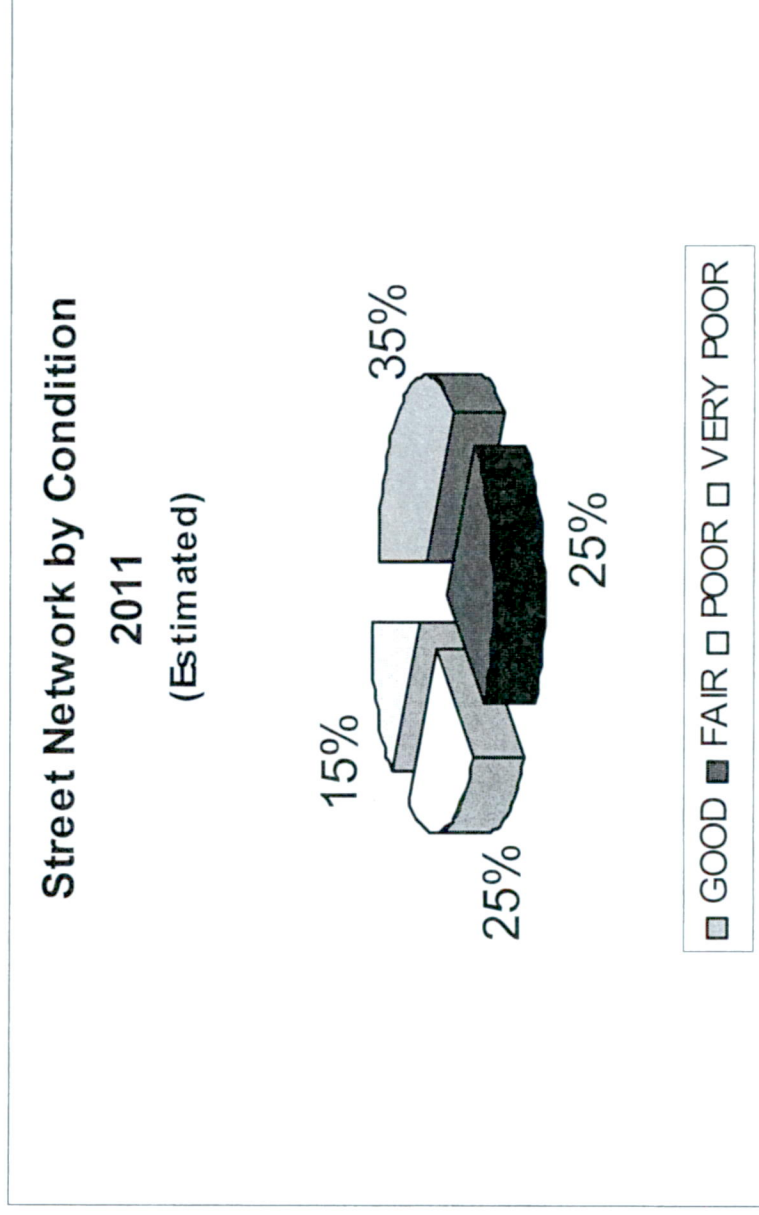
Deferred Maintenance in 2002 was \$4.2 M

Pavement Management System Recent History - Results



- Street System Costs More to Maintain

Pavement Management System Current Trend



(At Current Investment Levels)

Pavement Management System 2007 and Beyond

Goal

Maintain the majority of our pavement in the Good Condition Category
(Costs much less to maintain)

How

- Re-rate all arterials in summer of 2006
 - Produce next set of candidate locations for 2007-2008
 - Budget Amendment
- Annualized program to re-rate entire roadway system
- Multi-year design contract
 - Design in Fall of 2006
 - Construction in Spring 2007
- Substantial increases in funding levels for:
 - Routine Maintenance
 - Preventative Maintenance
 - Restoration and Reconstruction
- Look for infusion of one time money
 - Reduce Deferred Maintenance Levels

Project Updates

16th Avenue South Improvements
Marine View Drive
2006 Landslides
Saltwater Bridge
Other Projects



16th Ave. S. Improvement Project

- Right-of-Way Negotiations Continue
 - Completion by August 2006
 - Universal Field Services
 - Construction Licenses Sent to Property Owners
 - Meeting Scheduled for April 27th
- Private Utility Relocations
 - Spring & Summer 2006
 - Recent Potholing Work
- Public Utilities Relocations
 - Highline Water District & Midway Sewer District
 - Work to be in our Contract
 - Subject to Agreements (August 2006)

16th Ave. S. Improvement Project

- Public Works Trust Fund Application
 - Highly Competitive Process
 - Limited Funds
- New Part Time, Limited Term Position
- Tentative Schedule
 - July 2006 - Final PS&E Review
 - August 2006 - Private Utilities Relocated & ROW Negotiations Completed
 - September 2006 - Finalize Bid Documents
 - October 2006 - Project Advertisement
 - November 2006 - Bid Opening
 - February 2007 - Start Construction
 - December 2007 - Project Completion

Marine View Drive Bridge

- Temporary slide repair completed
 - Piles installed
- Traffic moved to west side of bridge on April 12th for Stage 3 construction
- Construction on east side of bridge
- Tentative completion date now September 1st
 - Obstructions encountered during drilling
 - Poor Weather
 - Landslides

2006 Landslides

- MVD
 - Piles in place for temporary Construction
 - Temporary Sidewalk in place
 - Final repairs to be constructed early this summer
- DMMD
 - Drilling completed
 - Awaiting Geotechnical Analysis
- On site meeting with FHWA

Saltwater Bridge Emergency Repairs

- Began on March 20th
- King County's work is completed
- City staff to evaluate drainage needs

Other Projects

- Pacific Highway South
 - Close-out Activities
- S. 216th St. and 24th Ave. S.
 - Signal turn on: March 16th
 - Punch List Items
- Wesley Homes Traffic Signal
 - Acceptance of 2 Easements (April 27th Council Meeting)
 - Close-out Activities
- North & South Twin Bridge
 - Expansion Joints (Early May or Mid July)
 - Mandatory Routine Bridge Inspections by Mid July
 - Load Rating (May)
- Kent Des Moines Road
- Neighborhood Traffic Calming Program
- 2006 Overlay Program