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# City of Austin Bond Election Program

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March 23<sup>rd</sup>, 2006



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# Overview

- Review
- Bond Program
  - Drainage
  - Transportation



# Sequence of Next Steps

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- Bond Program
  - Ballot Structure
  - Ballot Brochures
  - Election
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- Oversight Committee
  - CIP Plan
  - Annual Capital Budget
  - Contract Awards
  - Project Monitoring and Reporting



# Bond Program

- Investing in our Infrastructure
  - Drainage – March 23<sup>rd</sup>
  - Transportation – March 23<sup>rd</sup>
  - Facility Renovations – April 6<sup>th</sup>
- Investing in our Future
  - Park & Cultural Facilities – April 20<sup>th</sup>
  - Public Health & Safety Facilities – April 20<sup>th</sup>
  - Central Library – April 20<sup>th</sup>
  - Affordable Housing – April 27<sup>th</sup>
  - Parkland & Open Space Acquisition – April 27<sup>th</sup>

# Bond Program



	Needs Assessment	BEAC Recommendation
<b>Investing in our Infrastructure</b>		
Drainage	\$ 198.6 million	\$ 122.1 million
Transportation	\$ 185.0 million	\$ 98.9 million
Facility Renovations	\$ 130.4 million	\$ 64.0 million
<b>Subtotal</b>	<b>\$ 514.0 million</b>	<b>\$ 285.0 million</b>
<b>Investing in our Future</b>		
Park & Cultural Facilities	\$ 0.0 million	\$ 27.2 million
Public Health & Safety Facilities	\$ 73.4 million	\$ 52.8 million
New Central Library	\$ 106.7 million	\$ 90.0 million
Affordable Housing	\$ 25.0 million	\$ 67.5 million
Parkland & Open Space Acquisition	\$ 50.0 million	\$ 92.3 million
<b>Subtotal</b>	<b>\$ 255.1 million</b>	<b>\$ 329.8 million</b>
<b>TOTAL</b>	<b>\$ 769.1 million</b>	<b>\$ 614.8 million</b>



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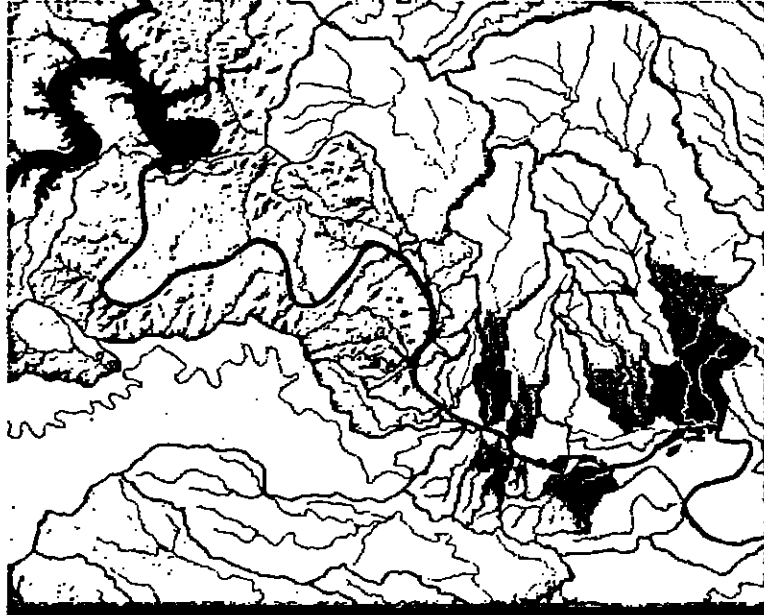
# Drainage

Joe Pantalione, P.E.  
Director of Watershed Protection and  
Development Review Department



# Watershed Protection Master Plan

## Phase 1 (2001)



### Results

- Prioritized problem areas
- Established financial need (\$800 M +)

Barton	East Bouldin	Tannehill
Blunn	Fort	Waller
Boggy	Harper's Branch	Walnut
Bull	West Bouldin	Johnson
Buttermilk	Little Walnut	Williamson
Shoal	Country Club	

# Mission Service Areas



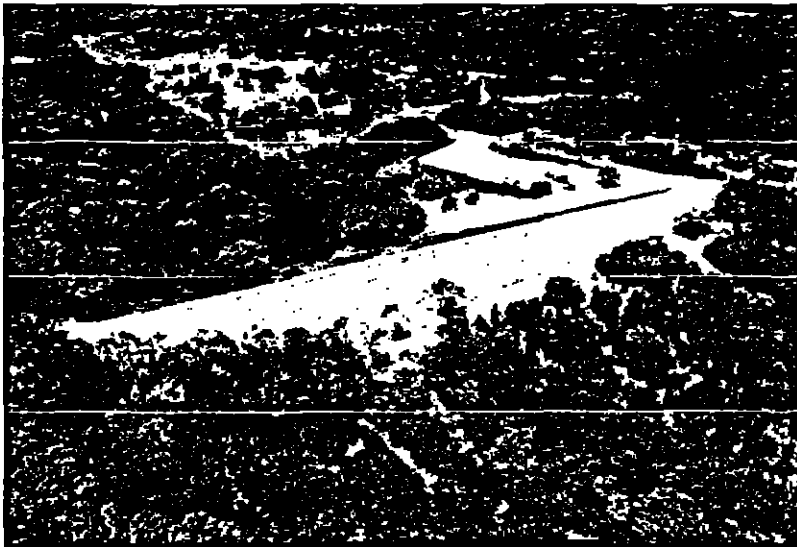
The Bond project proposal addresses three missions:

- ❑ Flood Hazard Reduction
  - ❑ Creek Flood
  - ❑ Localized Flood (Stormdrains)
- ❑ Creek Erosion Mitigation
- ❑ Water Quality Protection

Multi-objective: Projects attempt to integrate all three missions where possible.



# Creek Flood Hazard - Completed Mitigation Projects



◀ Oak Hill Regional Detention Pond



▲ Crystalbrook Flood Control Project



◀ Creek Bend Flood Control Project



# Localized Flood Hazard Mitigation (Localized Flooding – Storm Drain)

- Aged and undersized storm drain infrastructure
- Solutions include new and upgraded storm drain systems

3400+ Citizen Flooding Reports



# Creek Erosion Mitigation



Ft. Branch Creek @ Manor Road Emergency Project – Creek Bank Reconstruction

**Examples of our work...  
before and after photos.**



Tannehill Branch Creek – Manor Circle Emergency Project creek bank reconstruction

Watershed Protection and Development  
Review Department

March 23, 2006

11

# Water Quality Protection

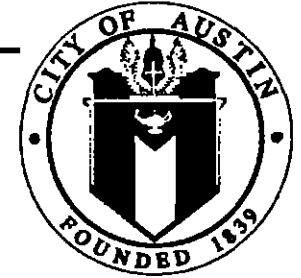


- Problems include decreasing quality and quantity of ground and surface water
- Solutions include stormwater treatment facilities and recharge enhancement

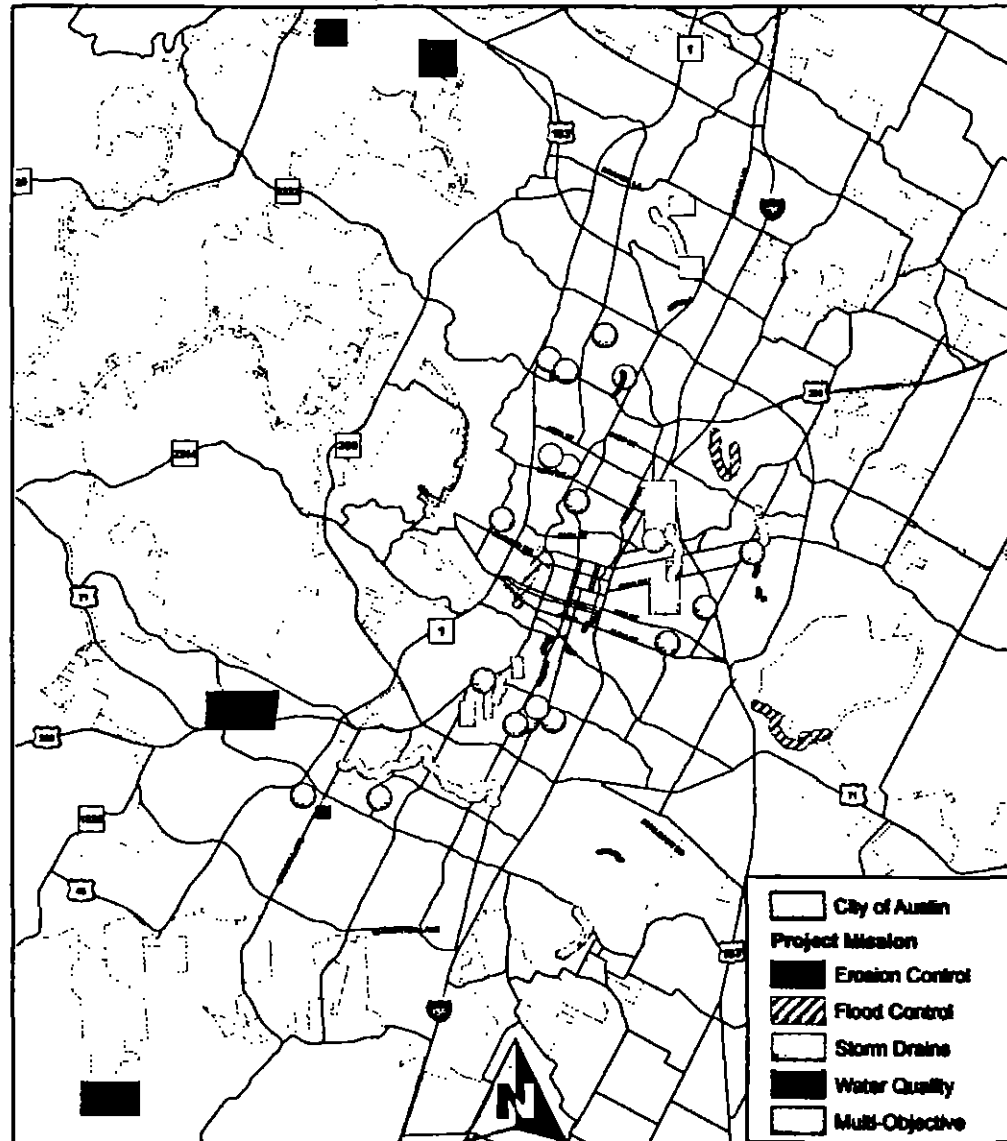
# Project Prioritization Process



- Priority Ranking based on Problem Severity
- Highest Problem Scores from each Mission
- Other Factors considered
  - Public Benefit
    - Protection of buildings and roadways from flood and erosion threat
    - Protection of priority surface and groundwater sources
  - Emphasis placed on improving drainage infrastructure



# Master Plan Priority Projects



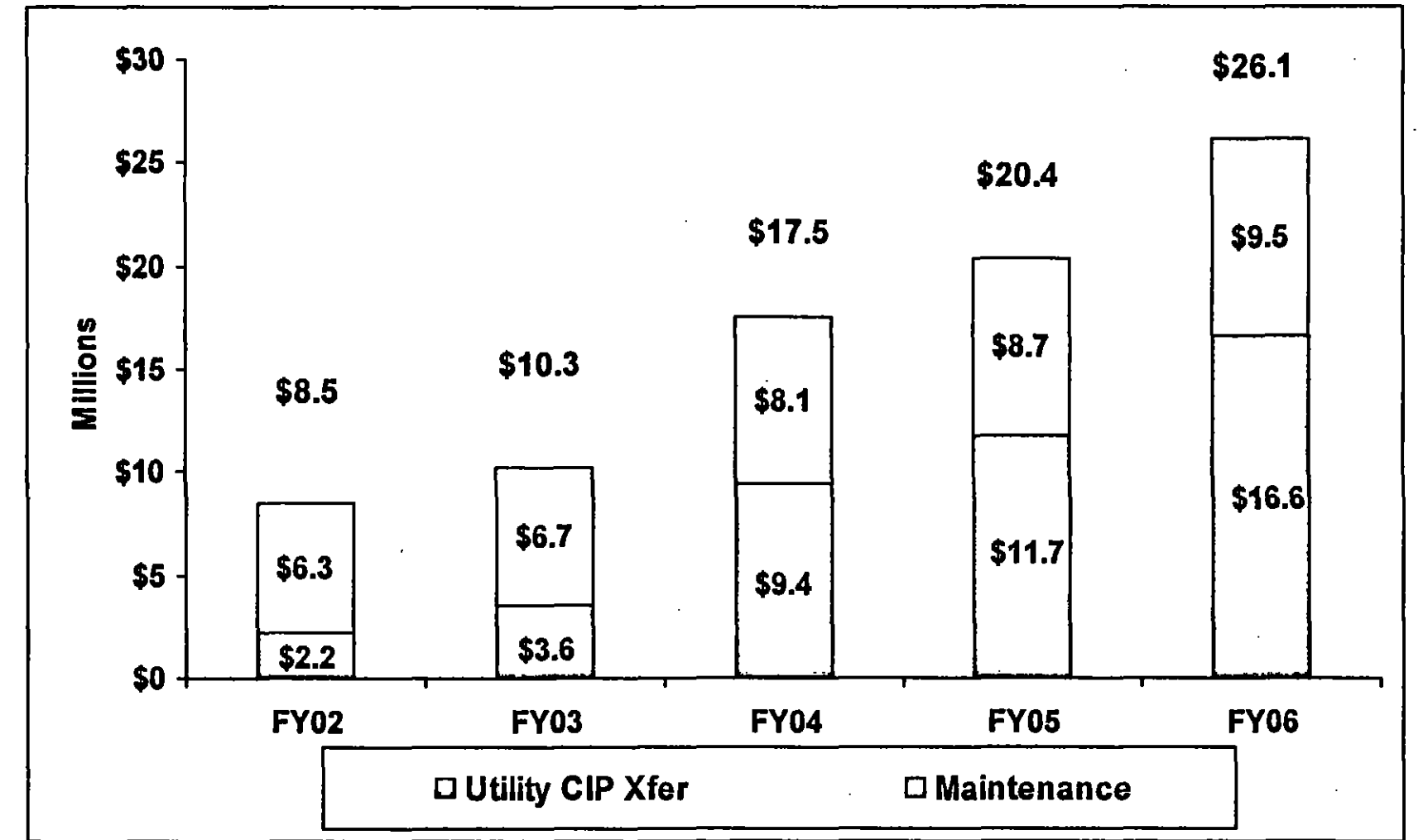
Watershed Protection and Development  
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14



# Drainage Infrastructure Funding



Watershed Protection and Development  
Review Department

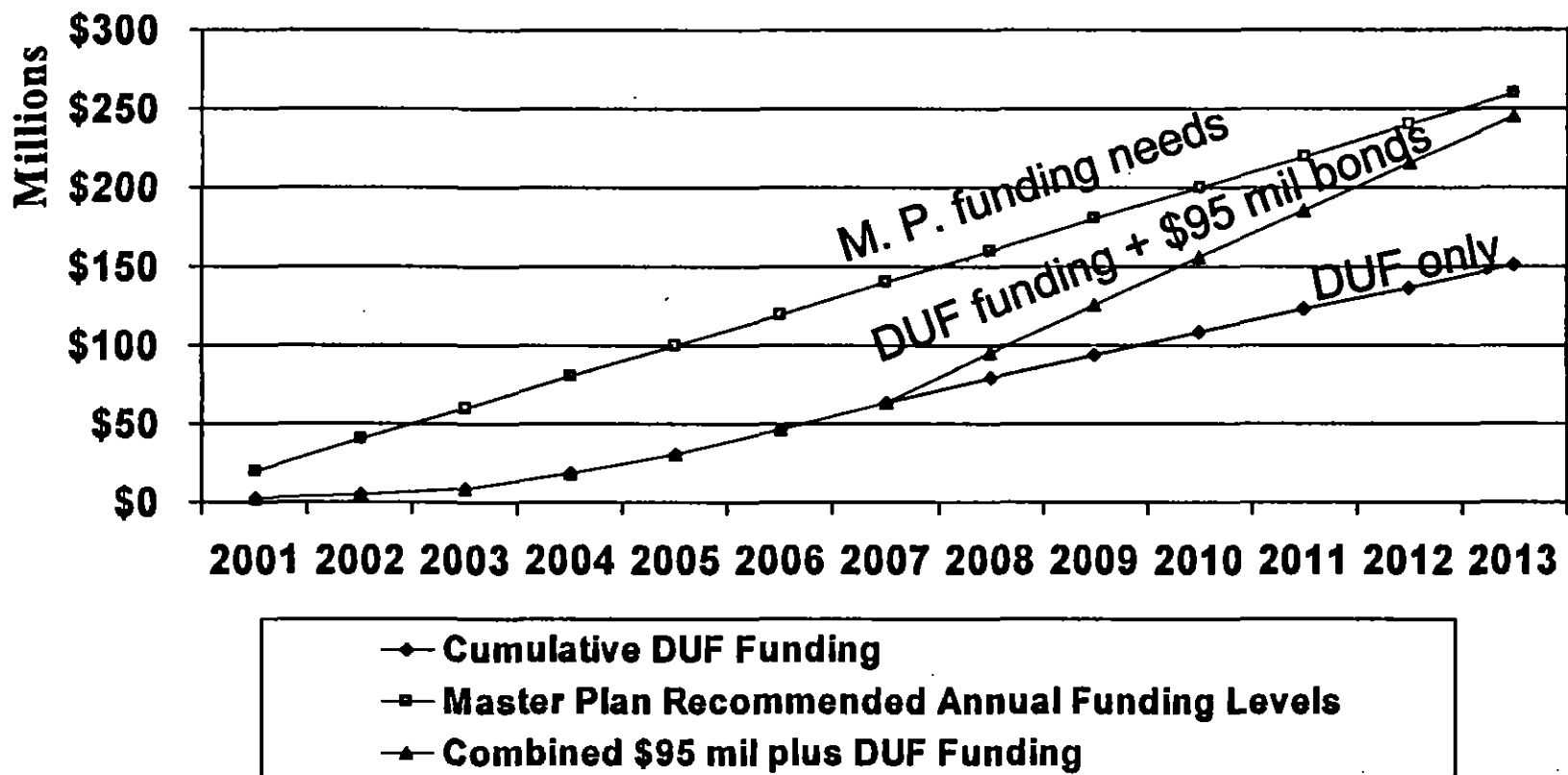
March 23, 2006

15

# Drainage



## Drainage Utility Funding with \$95 Million Bond Funding







## **Master Plan Benefits with Combined \$95 million Bond and DUF Funding**

- 1,300+ home and roadways potentially removed from the floodplain
- 71,000+ linear feet of new storm drain installed
- 225+ homes, yards, and streets with reduced flood hazard
- 350+ properties, utilities, and roadways removed from erosion threat
- 17,500+ linear feet of streambank stabilized
- 3,500+ water quality acres treated

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# Transportation



Sondra Creighton, P.E.  
Director of Public Works



# Transportation

## ■ Transportation System Components

- Street Network
- Traffic Signals
- Sidewalks & Ramps
- Bikeways



# Street Network

- Composition of Network: ~7,000 lane miles

- Arterials 1,098 lane miles (16%)
- Collectors 2,300 lane miles (34%)
- Residential 3,388 lane miles (50%)

- Street Use:

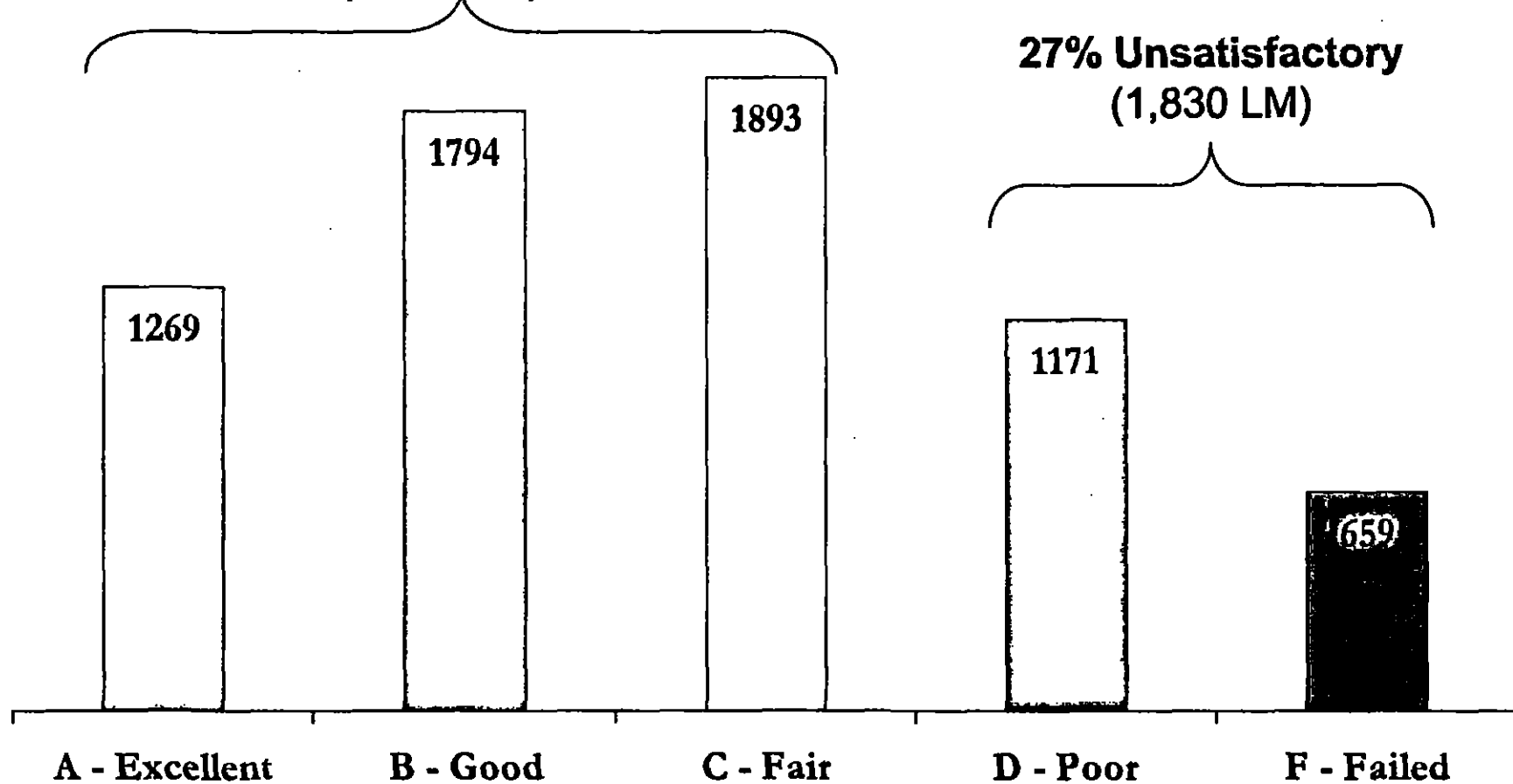
- 10 Million miles driven on our streets each day.

# Street Network Condition



**73% Satisfactory**  
**(4,956 LM)**

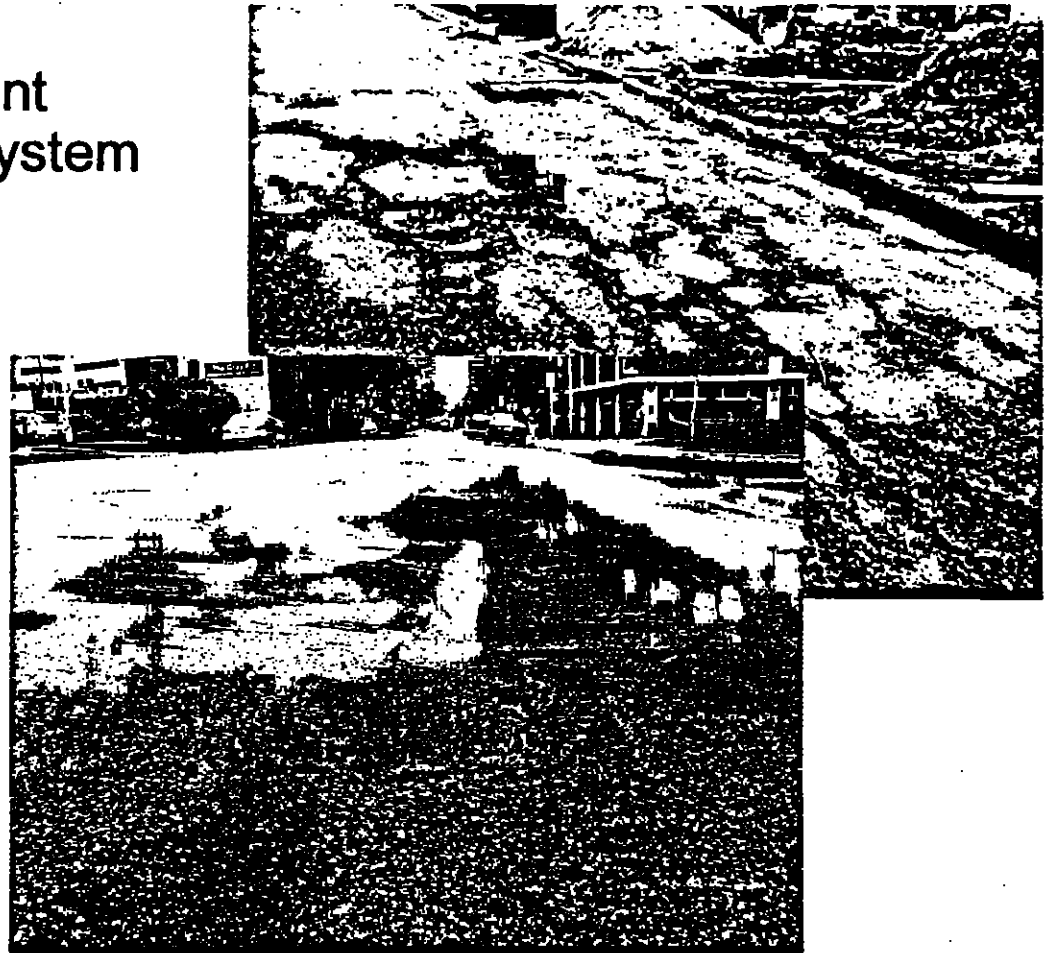
**27% Unsatisfactory**  
**(1,830 LM)**





# Street Reconstruction Prioritization

- Rank streets using Pavement Management Information System
- Examine Streets ranked Poor or Failed
- Consider other Criteria
  - Geography
  - Cost
  - Average Daily Traffic
  - Street Category



# **Streets Reconstruction Recommendation - \$85m**



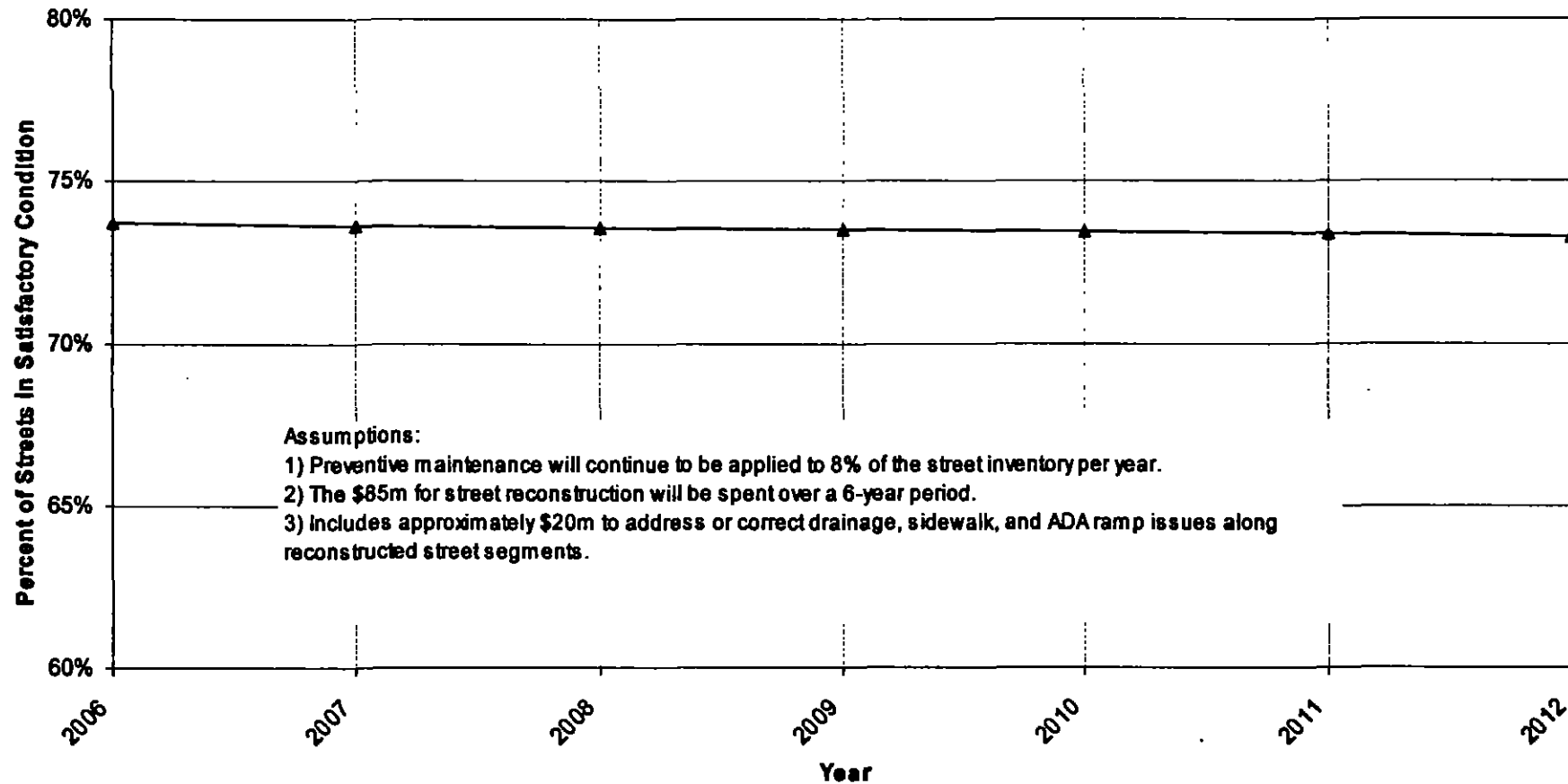
- **129 Lane Miles**
  - Arterial Streets – 30 LM
  - Downtown Streets – 12 LM
  - Neighborhood Collector Streets – 34 LM
  - Residential Streets – 53 LM
- **Concrete Alleys – 8 projects**
- **Bridge & Culvert Improvements – 12+ projects**

**Includes +\$20m for associated drainage & sidewalk improvements triggered by street reconstruction.**

# Projected Street Condition



## Projected Street Inventory in Satisfactory Condition

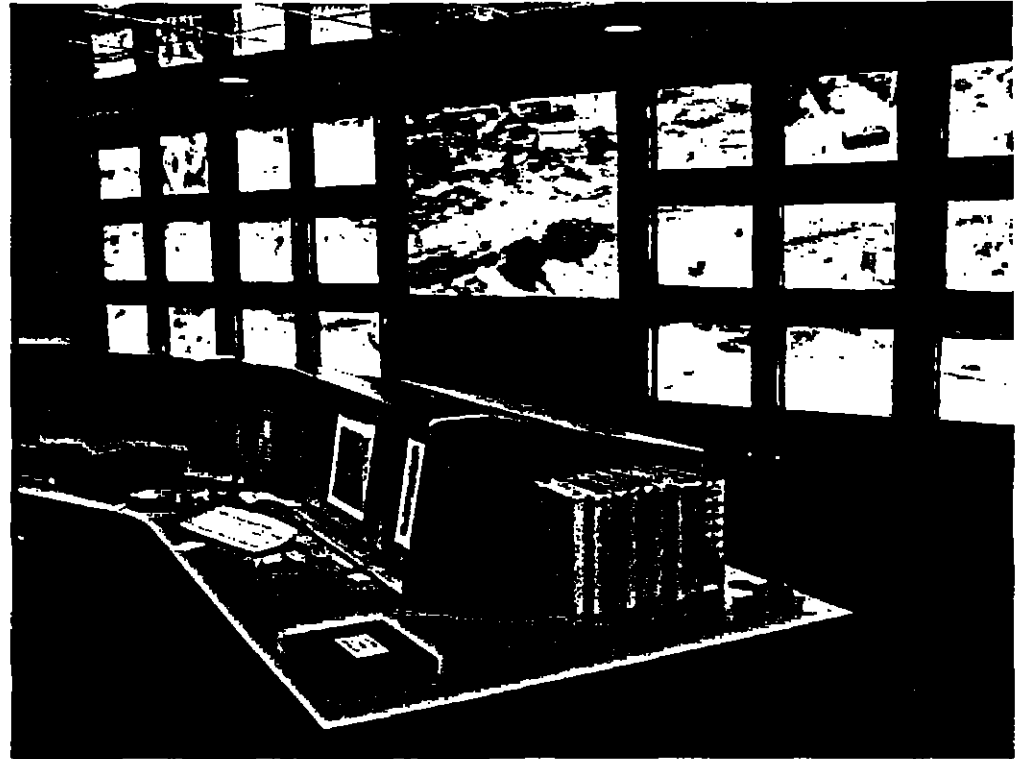






# Traffic Signals

- 831 Traffic Signals
- 154 Closed-Circuit TV cameras
- 347 Flashers
  - School Zones
  - Crosswalks
- Traffic Management Center
  - 590 Signals connected
  - 241 Not connected



# Signal Prioritization



- Traffic volumes
- Average delays
- Pedestrian activity
- Accident history





# Traffic Signals

## Recommendation - \$8m

- ❑ Connect 241 existing traffic signals to the TMC
- ❑ Install 90 new traffic signals (15 per year)
- ❑ Upgrade several existing traffic signals

# Sidewalks & Ramps



- New vs Repairs
- Prioritization
  - Repairs
    - Citizen Complaints
    - Severity
      - Scope
      - Level of use
      - Street flooding
  - Pedestrian Master Plan



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# Sidewalks & Ramps

## Recommendation - \$8.1m

- Replace deteriorated Sidewalks & Ramps - \$4m
  - Address approximately 900 locations
  
- Replace deteriorated Curbs & Gutters - \$4.1m
  - Correct problems at approximately 600 locations
  
- New Sidewalks
  - Funding from ¼ Cent, BGA & 2000 Bonds Fund Available



# **Bikeways**

## **Recommendation - \$2m**

- Bike Plan calls for 621 miles of bike routes
- Less than 15% has been implemented
- \$2m will supplement existing funding
  - 2000 Bonds, ¼ Cent, and Grant Funds



# Transportation

## Recommendation - \$103.1m

	2006 Bonds	2000 Bonds	BCT / BGA	¼ Cent	Total
Street Reconstruction	\$ 85.0	-	\$ 4.9	\$ 10.7	\$ 100.6
Signals	\$ 8.0	-	\$ 0.5	\$ 1.1	\$ 9.6
Sidewalks	\$ 8.1	\$ 5.8	\$ 0.3	\$ 2.5	\$ 16.7
Bikeways	\$ 2.0	\$ 10.0	-	\$ 5.5	\$ 17.5
Street / Intersection Improvements	-	\$ 62.8	\$ 4.6	\$ 26.3	\$ 93.7
<b>Transportation Total</b>	<b>\$103.1</b>	<b>\$ 78.6</b>	<b>\$ 10.3</b>	<b>\$ 46.1</b>	<b>\$ 238.1</b>

# Bond Program



	Bond Program
<b>Investing in our Infrastructure</b>	
Drainage	\$ 95.0 million
Transportation	\$ 103.1 million
Facility Renovations	
<b>Subtotal</b>	
<b>Investing in our Future</b>	
Park & Cultural Facilities	
Public Health & Safety Facilities	
New Central Library	
Affordable Housing	
Parkland & Open Space Acquisition	
<b>Subtotal</b>	
<b>TOTAL</b>	<b>\$500-\$530 million</b>



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# Next Steps



- April 6<sup>th</sup>
  - Facility Renovations

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# Questions / Comments

