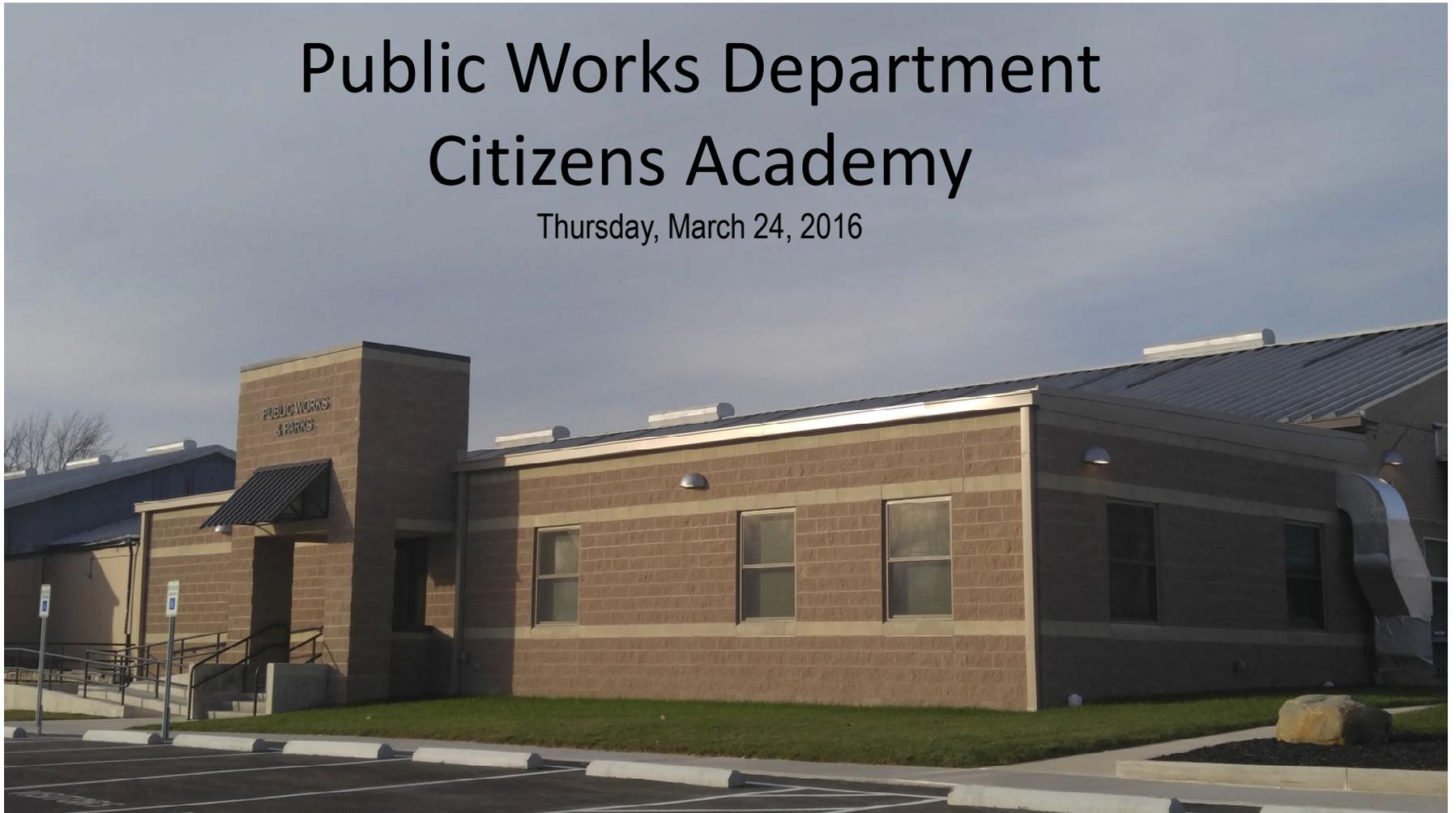


# Public Works Department Responsibilities

**Potholes** Right of Way Mowing Guardrail  
Repairs Aircraft Fueling Snow Plowing  
Fleet Maintenance & Repairs **Traffic Signals**  
**Street Lighting** Construction Inspection  
Engineering Plan Review Residential Waste  
Collection **Recycling** Landfill Operations  
**Crack Sealing** Road Resurfacing Traffic  
Studies **Project Plan Design** Side Walk Program  
Maintenance of Traffic Bike Path Maintenance  
**Accident Clean Up** **Building Maintenance**  
Downtown Christmas Lighting  
**Commercial Waste Collection** Road  
Base Repairs Custodial Services  
**Handicap Ramp Repairs** Highway Pavement  
Striping & Signage **Airport**

# Public Works Department Citizens Academy

Thursday, March 24, 2016



# Introductions

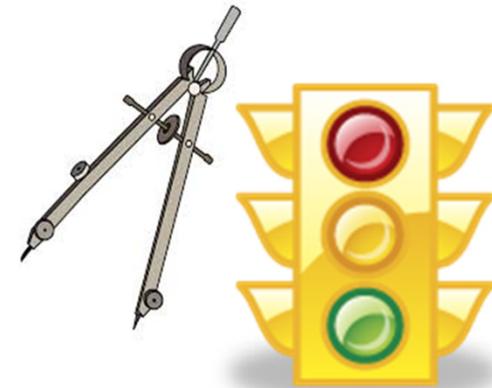
**Bill Ferrigno** – Public Works Director/City Engineer

**Charles Dukes** – Superintendent  
Streets Maintenance & Repair  
Facility Maintenance



**Joe Bullis** – Superintendent  
Solid Waste Collection  
Fleet Maintenance & Repair  
Airport Operations

**Matt Weber, P.E.** – Deputy City Engineer  
Engineering Services  
Traffic Management



**Linda Mathews** – Customer Service Liaison

# Rules of the Evening

Keep it Informal

Ask Questions



Ask for Clarification



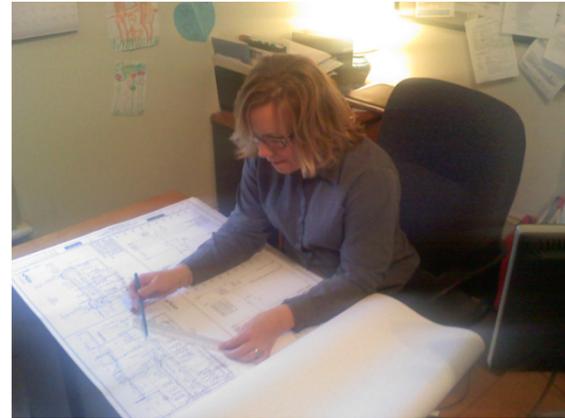
Facility Tours

# Traffic & Engineering Services

Matt Weber, P.E., Deputy City Engineer

## Land Development Group

- ✓ Plan Review
- ✓ Residential & Commercial Development
- ✓ Construction Inspection



# Traffic & Engineering Services

## Capital Project Group

- ✓ In House/Consultant Design
- ✓ Project Bid/Award
- ✓ Contract Administration
- ✓ Construction Administration



# Traffic & Engineering Services

## Traffic Management Group

- ✓ Transportation Planning & Studies
- ✓ Traffic Analysis
- ✓ Traffic Signal Operation
- ✓ Guardrail System Maintenance
- ✓ Street Lights Maintenance
- ✓ Signage & Pavement Markings
- ✓ Maintenance of Traffic Operations



# Traffic & Engineering Services

## Active Capital Initiatives

- US23/SR315 Intersection Improvement
- US23/Pennsylvania Ave. Interchange
- Troy Road Bikeway
- E William Street Improvements



# Annual Resurfacing Program

What is a Lane Mile? – Delaware has 311 Lane miles

How are streets selected for resurfacing?

## Arterial & Collector Streets

- Highest Vehicle Miles
- Highest Travel Speeds
- Greatest risk of accident and Injury
- Greatest rate of deterioration
- Highest cost of repair

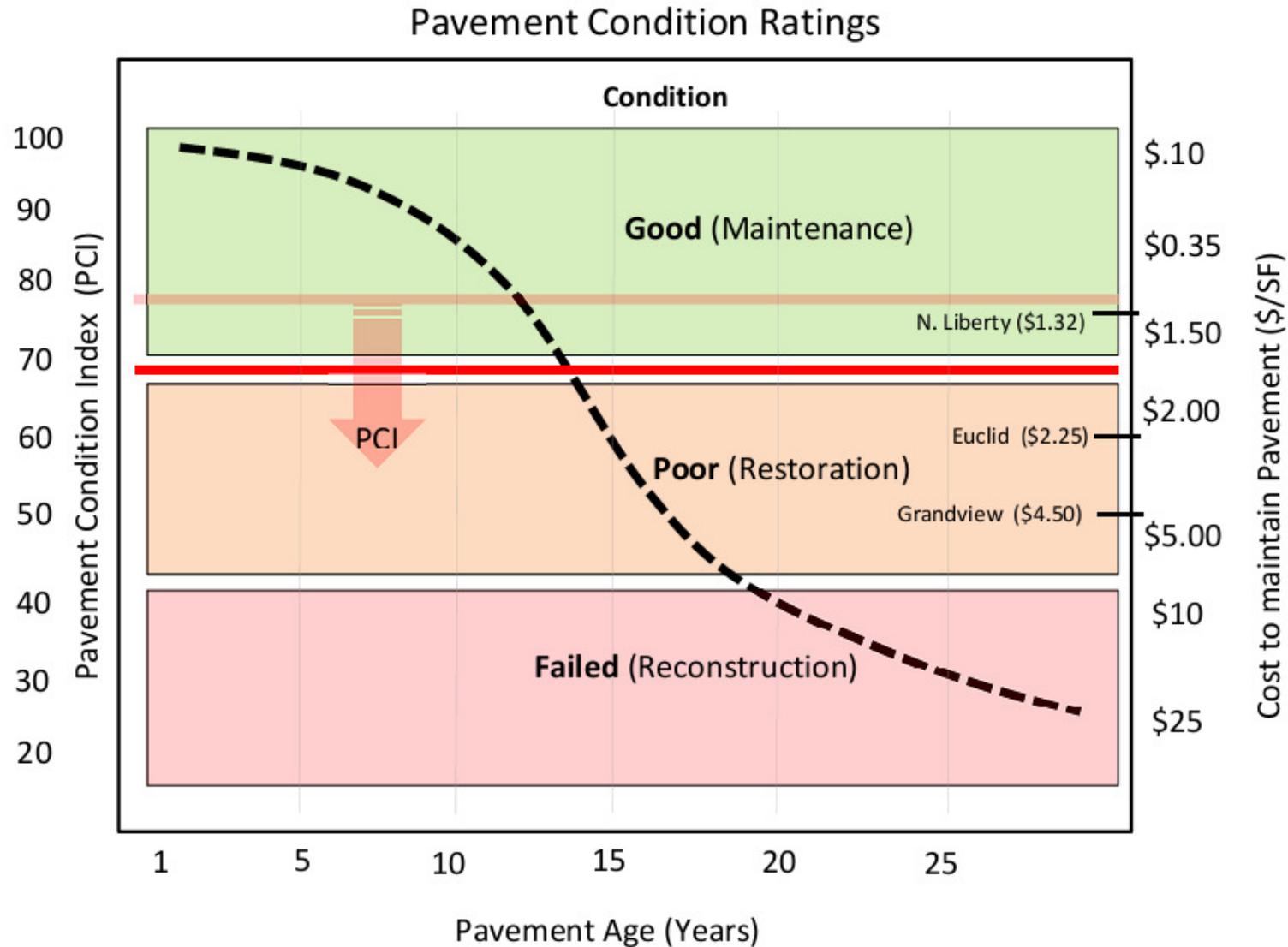


## Residential Streets (Limited Funds)

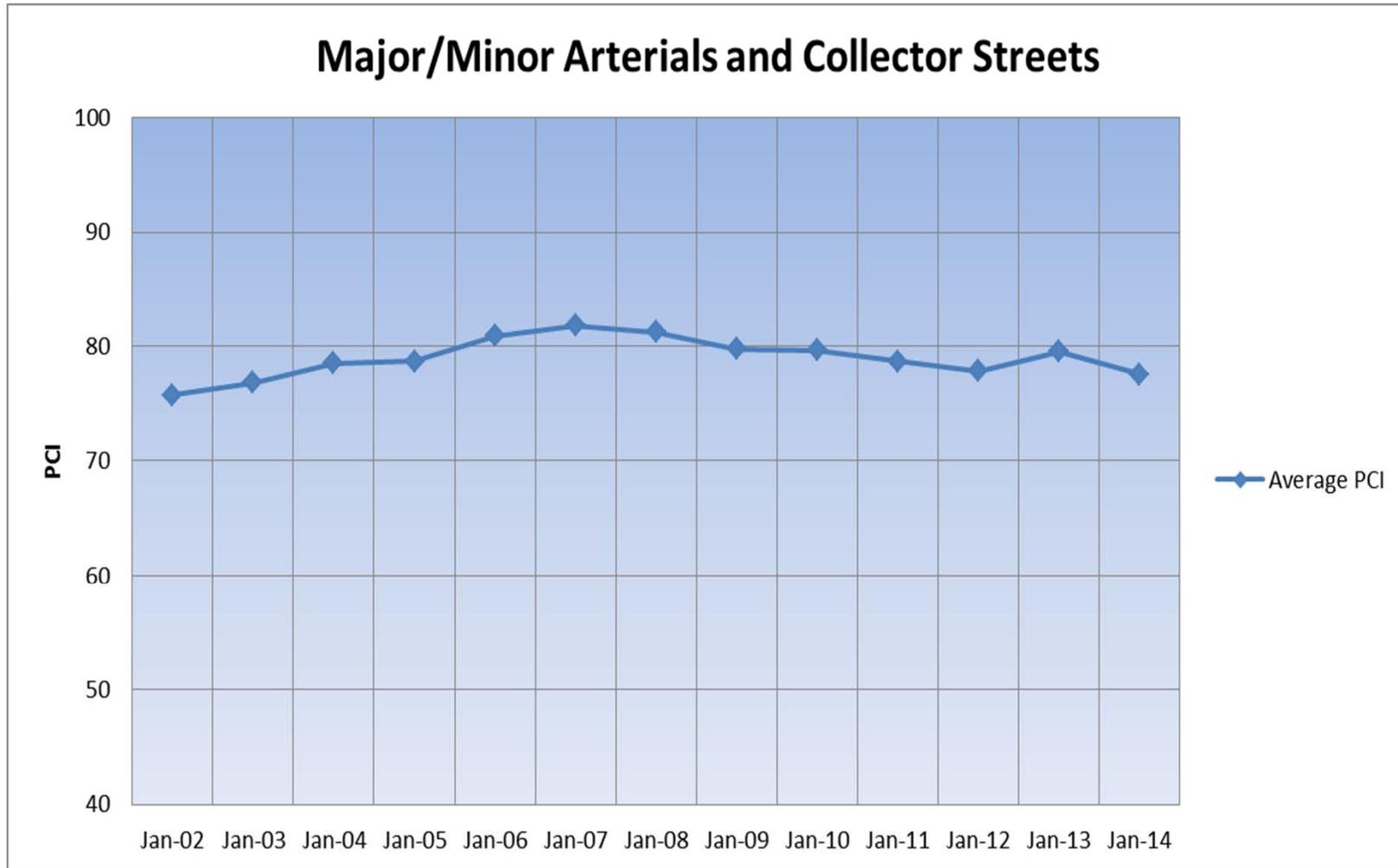
- Lowest vehicle miles
- Lowest Travel Speeds
- Lowest Risk for accident and Injury



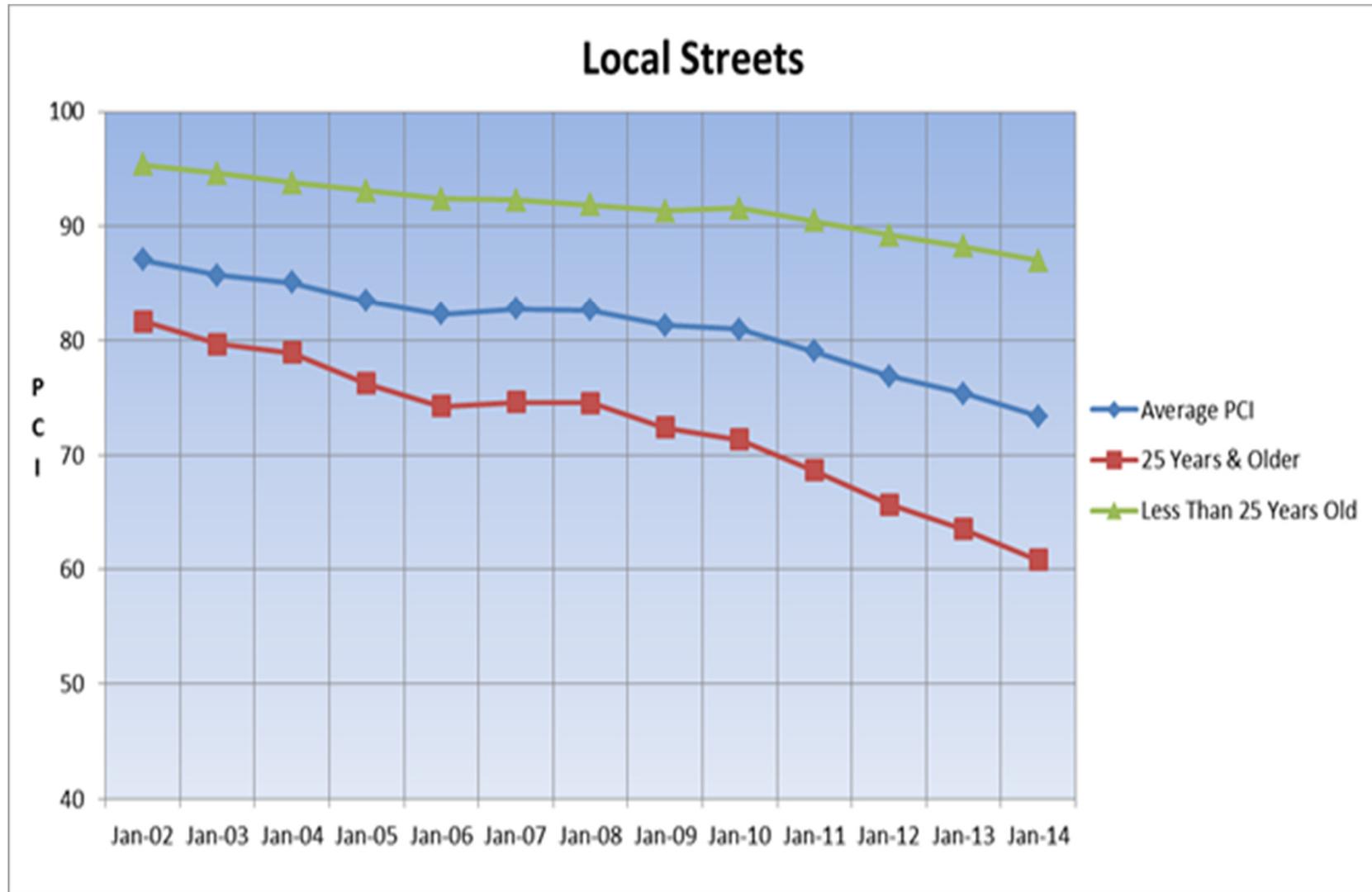
# How do Pavements Deteriorate?



# Resurfacing Program

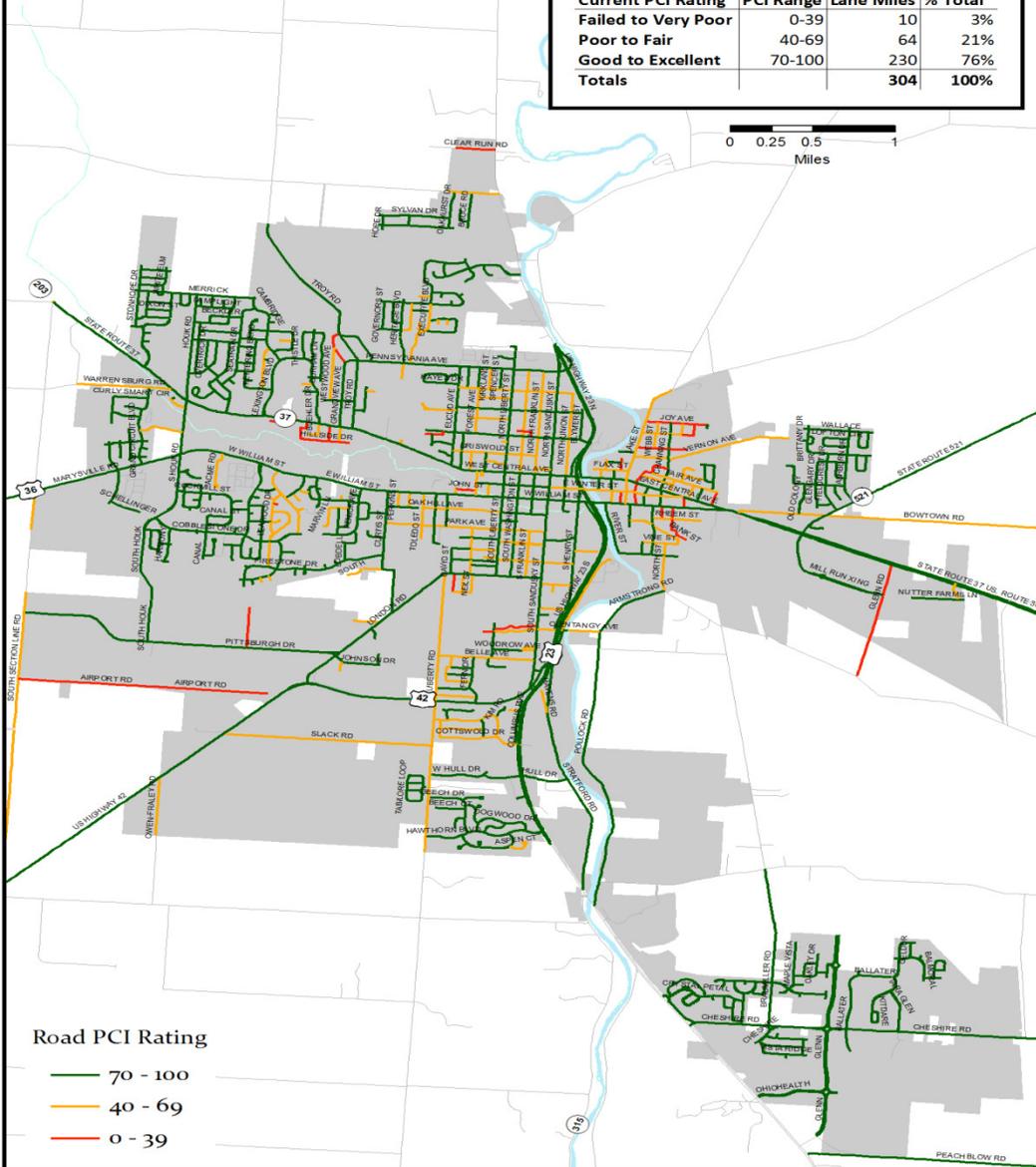
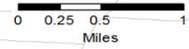


# Resurfacing Program



Revised:  
10/20/2014

Current PCI Rating	PCI Range	Lane Miles	% Total
Failed to Very Poor	0-39	10	3%
Poor to Fair	40-69	64	21%
Good to Excellent	70-100	230	76%
<b>Totals</b>		<b>304</b>	<b>100%</b>



Road PCI Rating

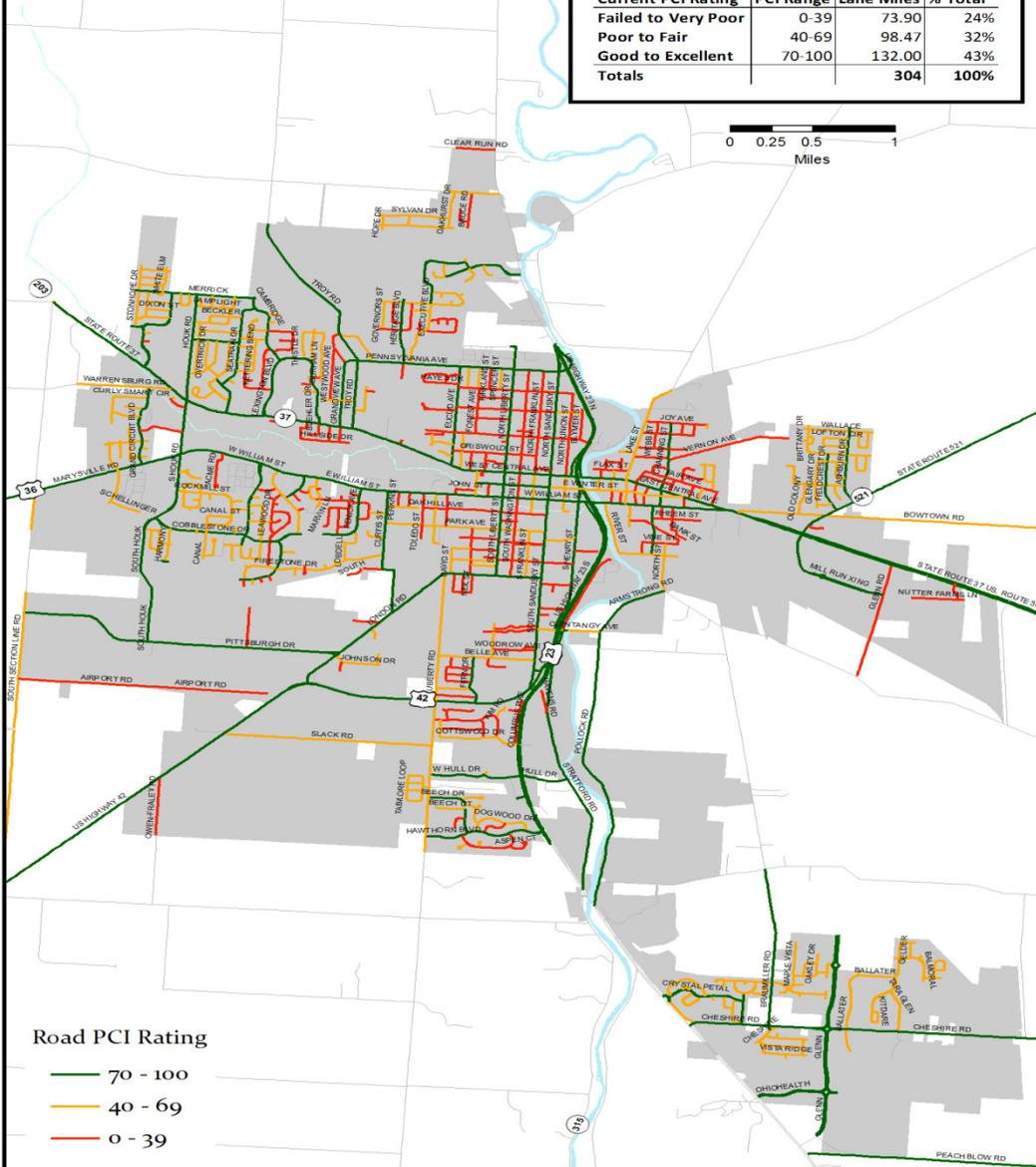
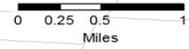
- 70 - 100
- 40 - 69
- 0 - 39

## The City of Delaware 2014 Pavement Network Evaluation



Revised:  
10/20/2014

Current PCI Rating	PCI Range	Lane Miles	% Total
Failed to Very Poor	0-39	73.90	24%
Poor to Fair	40-69	98.47	32%
Good to Excellent	70-100	132.00	43%
<b>Totals</b>		<b>304</b>	<b>100%</b>



Road PCI Rating

- 70 - 100
- 40 - 69
- 0 - 39

## The City of Delaware 2030 Predicted PCI Ratings



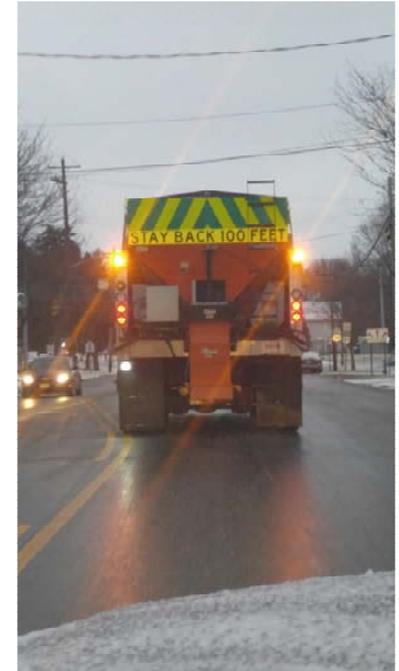
# Street Maintenance & Repair Division

Charles Dukes – Superintendent



## Winter Snow & Ice Management

- ✓ Equipment
- ✓ Manpower & Shift Work
- ✓ Roadway Prioritization
  - ✓ Priority 1 Routes
  - ✓ Priority 2 Routes
  - ✓ Priority 3 Routes & Order
  - ✓ Cul-de-sacs Policies
- ✓ Pre-Treatment (Anti-icing)
  - ✓ Salt Brine
  - ✓ Agricultural Additives – Benefits
  - ✓ Reduces Road Salt Use
- ✓ Complaints



Driveways, Mailboxes , Curb Drains, Ramps

# Equipment Costs



- Tandem Axle Truck - \$185,000
- Single Axle Truck - \$147,000
- Skid Steer - \$37,000
- Backhoe - \$80,000
- Salt Brine System - \$50,000
- 3000 Ton Salt Storage Barn - \$200,000
- Road Salt - \$225,000 @ \$75/ton



# Street Maintenance & Repair Division

## Roadway Maintenance Programs

- ✓ Pothole Repairs
- ✓ Base Repairs
- ✓ Pavement Patching
- ✓ Crack Sealing
- ✓ ADA Ramp Upgrades/Maintenance
- ✓ Berm Maintenance
- ✓ Bikeway Maintenance
- ✓ City Parking Lot Maintenance



# Special Projects



# Solid Waste Management Division

Joe Bullis - Superintendent

## Weekly Refuse Service

- ✓ Tip Cart Collection (Toters)

## Recycling

- ✓ Mixed Paper
- ✓ Plastics, Glass & Metals



## Yard Waste Collection

- ✓ April – November (Christmas Trees)

## Common Complaints

- ✓ Missed Stops
- ✓ Overloaded Tip Cart
- ✓ Untagged bags, & piles of debris
- ✓ Large objects, carpeting



# Solid Waste Management Division

## Commercial Collection

- ✓ 130 Locations
- ✓ 305 Rear Load Dumpsters



## Landfill Management

- ✓ Cherry Street
- ✓ Curve Road
- ✓ Monitoring
- ✓ Leachate Collection



# Solid Waste Management Division

## Additional Solid Waste Disposal Options

- ✓ Move In/Move Out Service
- ✓ County Transfer Station (Large loads)
- ✓ Sims Brothers
  - ✓ Recyclable Materials
  - ✓ White Goods
- ✓ Price Barnes – Yard Waste Drop Off
- ✓ Ohio Mulch – Yard Waste Drop Off
- ✓ DKMM – Hazardous Waste Drop Offs
- ✓ TSC & Monroe – Motor Oil and Batteries
- ✓ Recycling Drop- Off Collection Boxes



# Fleet Maintenance & Repair

Service & Repair all City Vehicles and Equipment

- ✓ 487 vehicles and equipment
- ✓ Types of Equipment maintained



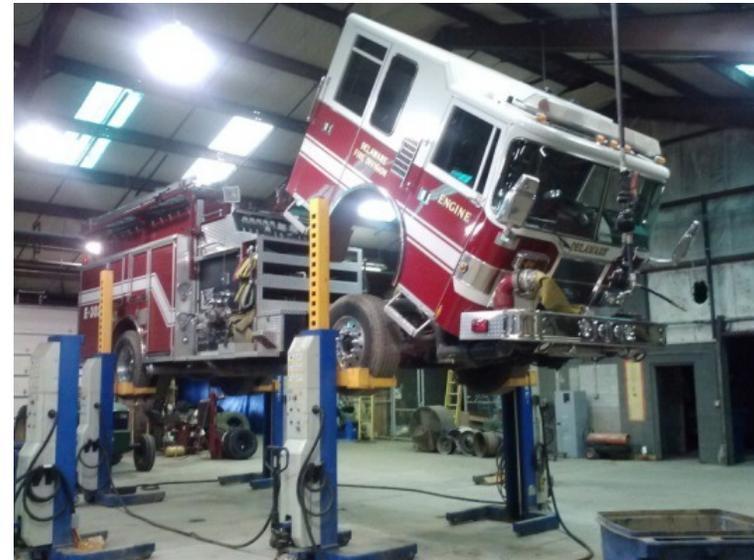
Preventative Maintenance Program

Mechanics Training

- ✓ Seminars
- ✓ Certifications

Schedule

- ✓ Hours of Operation
- ✓ Snow & Ice Schedule
- ✓ Emergencies



# Submit Questions & Comments

Public Works Customer Service

Phone # 740-203-1810

mailto: [pwcs@delawareohio.net](mailto:pwcs@delawareohio.net)

# Facility Tour