



City of Dallas

2024 Community Bond Task Force and Subcommittees

June 13, 2023

**Introduction to the Public Works Bond
Program Department of Public Works
City of Dallas**

Overview

- Public Works 2024 Bond Liaisons Introductions
- Presentation Topics
- Community Bond Task Force (CBTF) Input
- Terminology and Definitions
- Useful References
- Next Meetings
- Questions and Answers

Public Works 2024 Bond Liaisons Introductions

Name	Title	Phone Number	Email Address
Ali Hatefi, PE, CFM	Director	214-948-4688	Alireza.Hatefi@dallas.gov
Haytham Hassan, PE	Assistant Director/ City Engineer	214-948-4677	Haytham.hassan@dallas.gov
Derek White, PHD, PE	Assistant Director (I)	214-948-4250	Derek.white@dallas.gov
Shahad Mohammed, PMP	Program Administrator	214-717-1617	Shahad.mohammed@dallas.gov

Presentation Topics

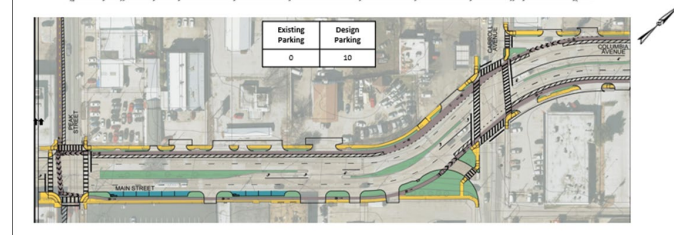
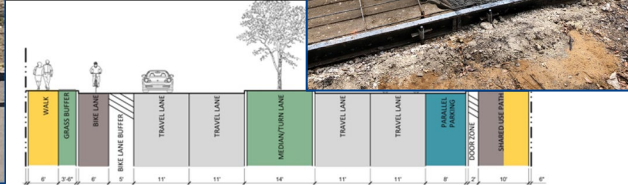
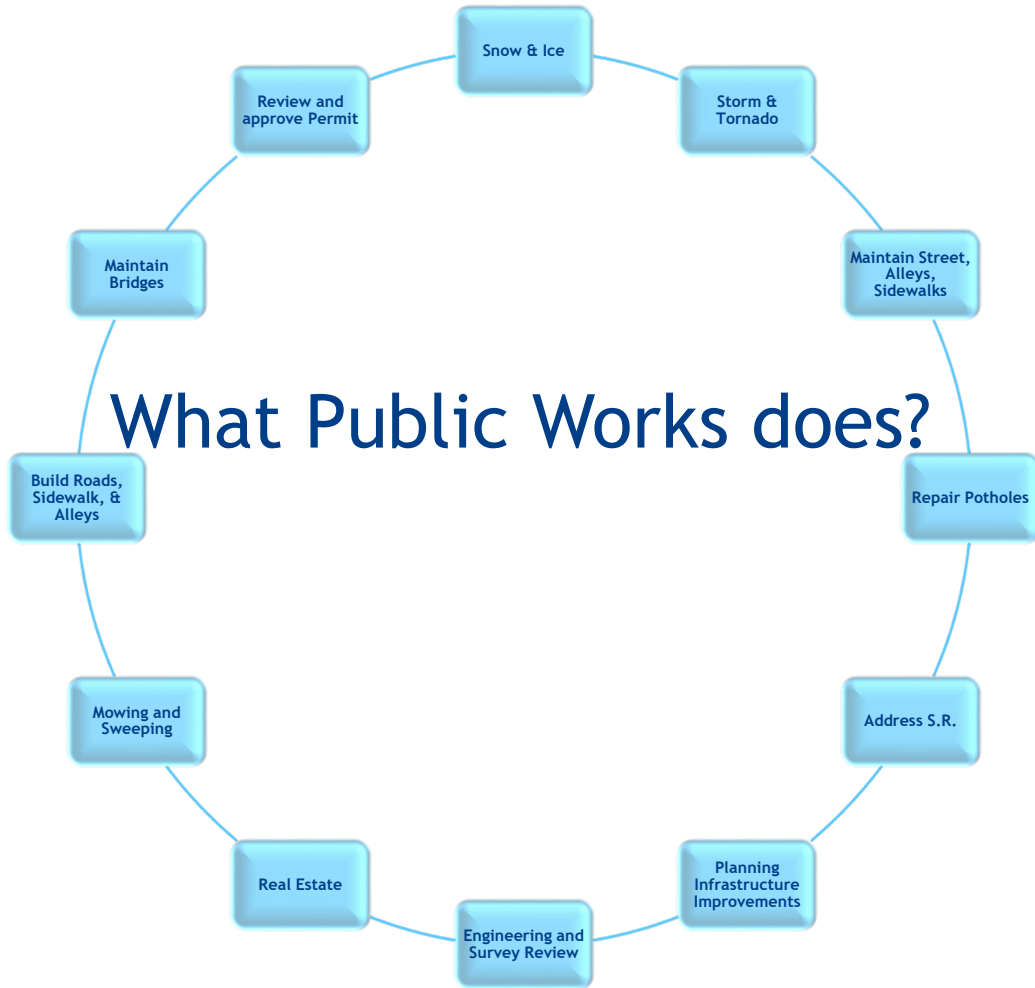
- ▶ What is the role of the Public Works Department?
- ▶ What are the City of Dallas assets managed by Public Works Department?
- ▶ What is an Asset Life Cycle?
- ▶ What is Pavement Life and what's our goal?
- ▶ What is the process to select assets for the Bond Program?
- ▶ What are the treatments and their cost?

Community Bond Task Force (CBTF) Input

- The Community Bond Task Force will provide a very valuable input by representing their communities in the review of the needs and in providing their preferred areas of focus for the next Bond Program.

Terminology and Definitions

- ▶ **Assets:** City owned and/or maintained inventories.
- ▶ **Needs Inventory:** The list of the City inventories that needs attention (unfunded projects).
- ▶ **Technical Criteria:** The criteria used to rank the needs inventory projects priority list.
- ▶ **Pavement:** A hard surface made of construction materials structure.
- ▶ **Pavement Model:** Pavement modeling system to create a selection based on the optimization of benefit from a given budget.
- ▶ **Pavement Condition Index (PCI):** A measure of pavement health from 0 to 100.
- ▶ **Resurfacing:** Pavement rehabilitation treatment (pavement milling and asphalt installation) that does not need new engineering design.
- ▶ **Reconstruction:** Pavement reconstruction (reinforced concrete pavement) that includes new engineering design.
- ▶ **Improved Streets:** Existing streets that were constructed in compliance with City Standards.
- ▶ **Unimproved Streets:** Existing streets that lack Curb, Gutter, and Sidewalks.
- ▶ **Improved Alleys:** Existing alleys that have pavement.
- ▶ **Unimproved Alleys:** Existing alleys that are unpaved (Dirt and Gravel)
- ▶ **Local Street:** A street that is primarily used to get access to properties (Residential)
- ▶ **Thoroughfare:** A street that accumulates traffic from collector streets and residential streets for distribution
- ▶ **Complete Street:** A Street that provides design elements to motorists, pedestrians, bicyclists and transit riders of all ages and abilities



City of Dallas Assets

What are the City of Dallas assets managed by Public Works Department?



**Public Works
Assets**

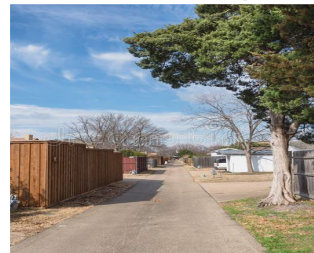


Streets

Total of 11,753 Lane Miles

→ **Improved Streets**

→ **Unimproved Streets**

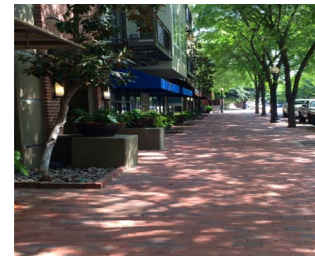


Alleys

Total of 1,400 Miles

→ **Improved Alleys**

→ **Unimproved Alleys**



Sidewalks

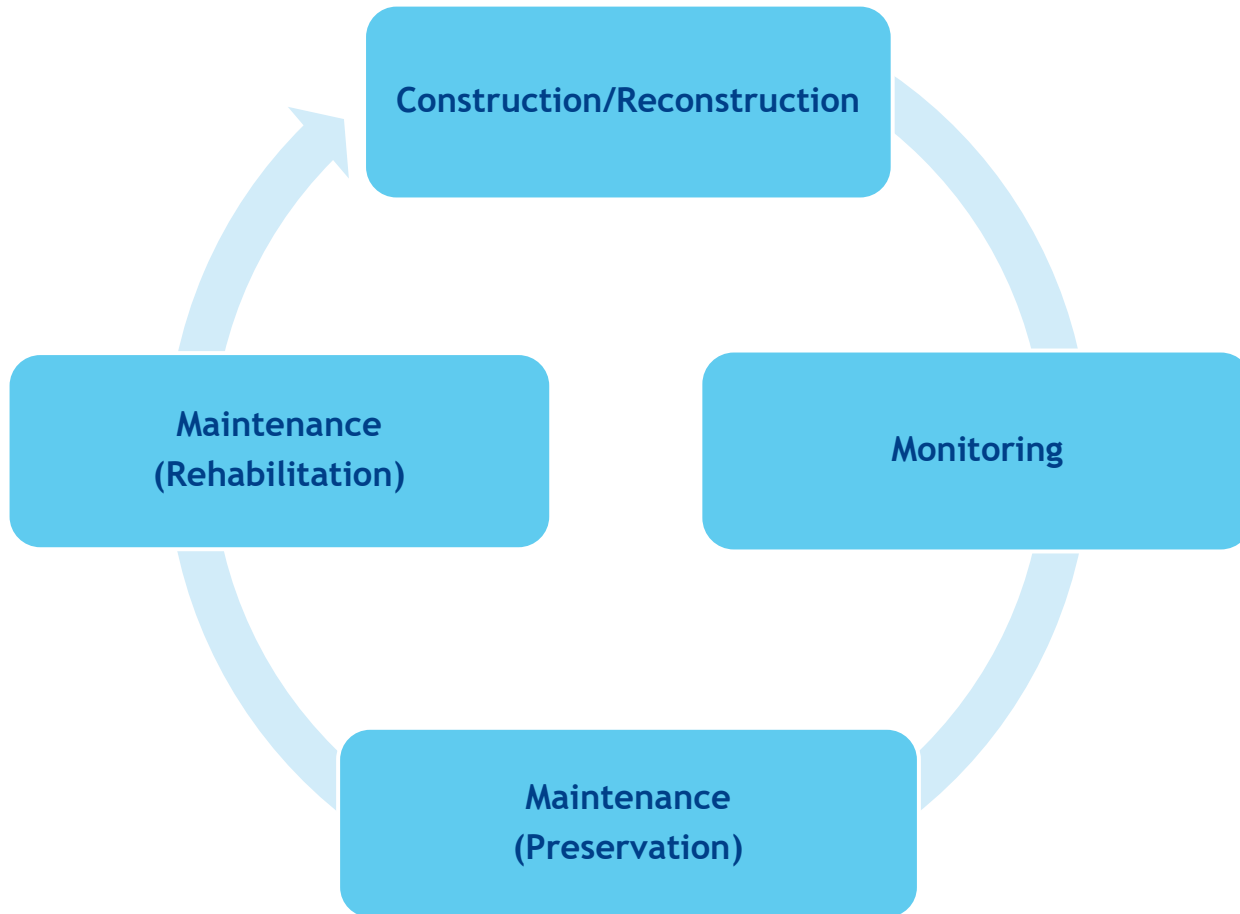
Total of 4,536 Miles



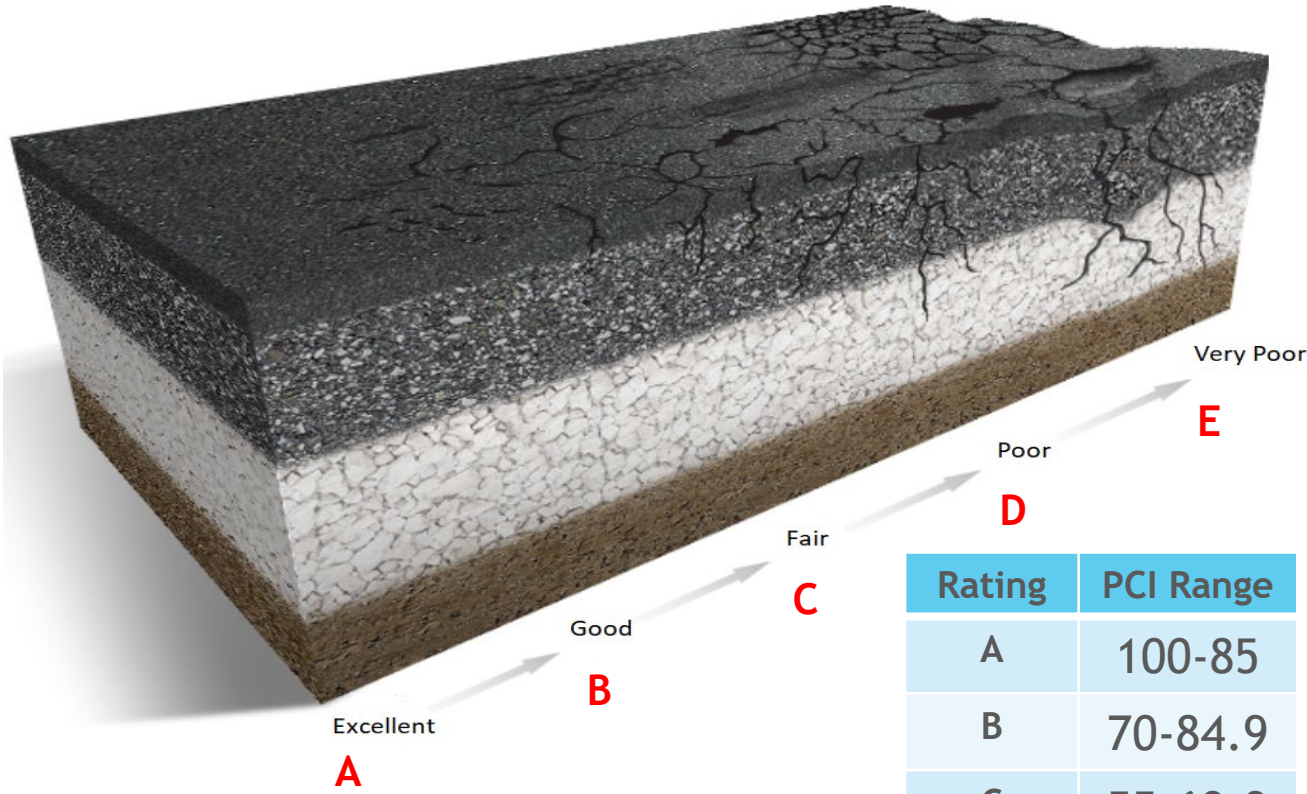
Bridges

Total of 648 Bridges

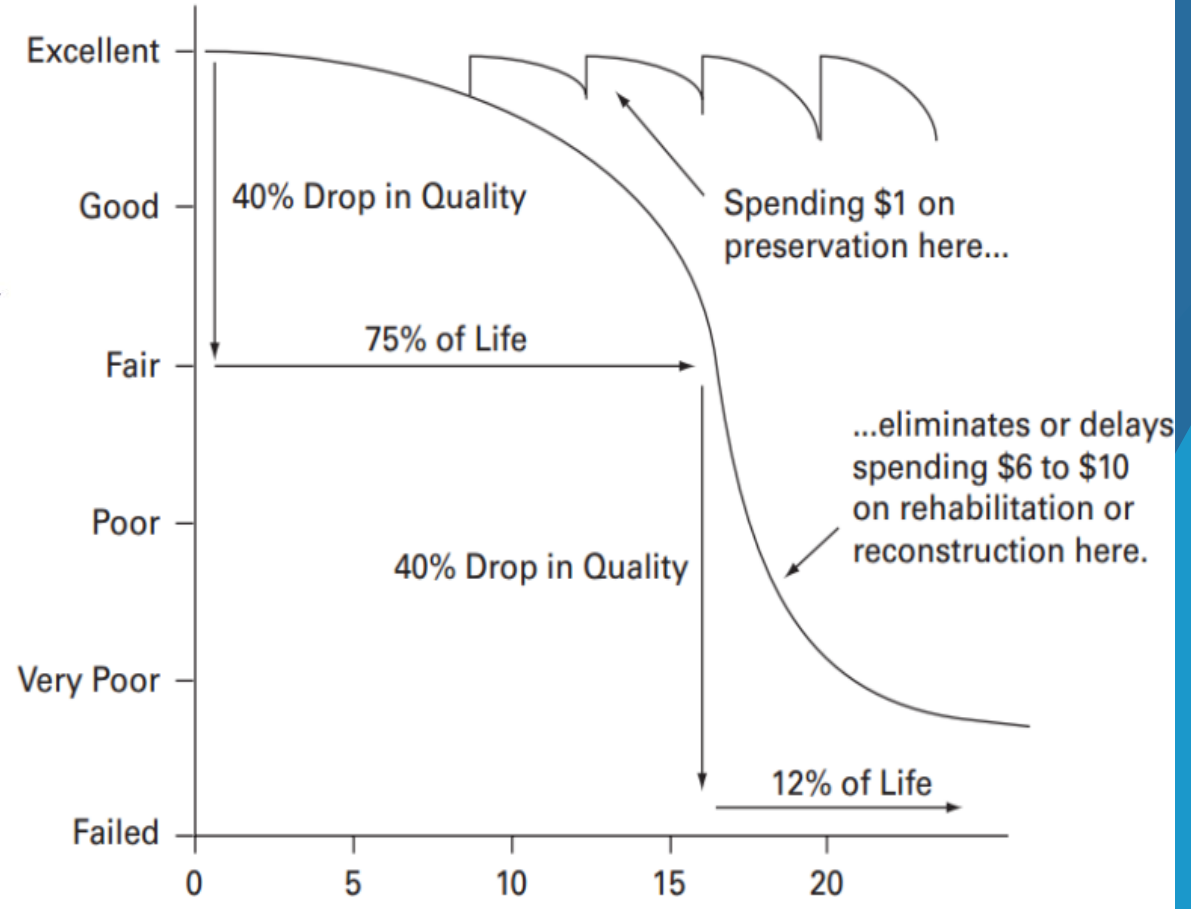
What is an Asset Life Cycle?



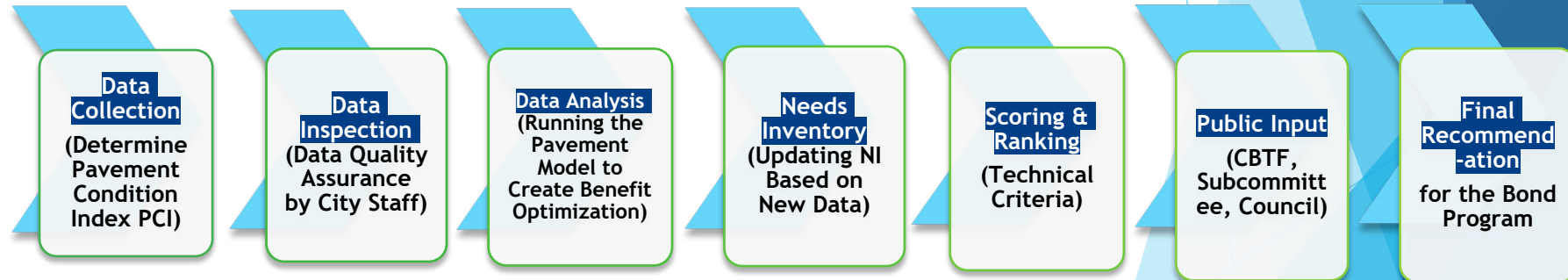
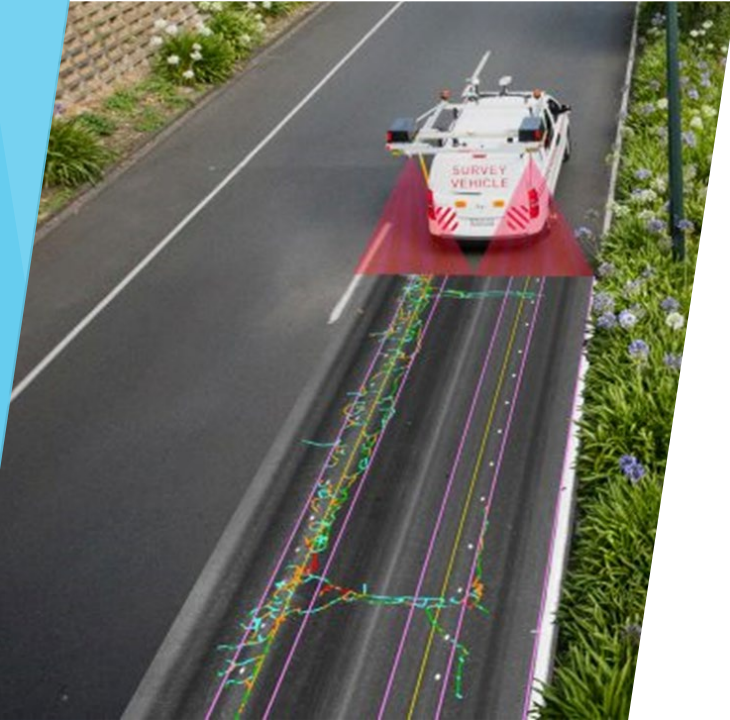
What is Pavement Life and What's our Goal?



Rating	PCI Range
A	100-85
B	70-84.9
C	55-69.9
D	40-54.9
E	0-39.9



What is the process to select assets for the Bond Program?



What are the treatments and what's their cost?

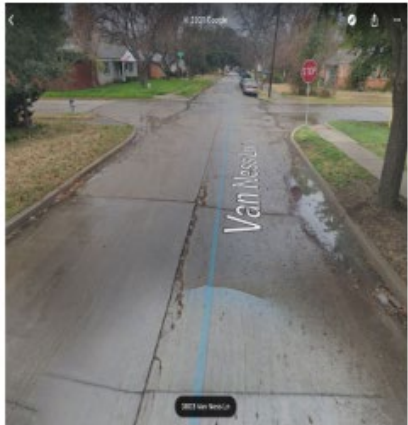
Resurfacing

- Rehabilitation treatment (Maintenance)
- Milling existing pavement and placing new asphalt.
- Does not need new engineering design prior to construction
- Up to 20 years life service time
- Cost (Approximately): **\$620,000/Lane Mile**

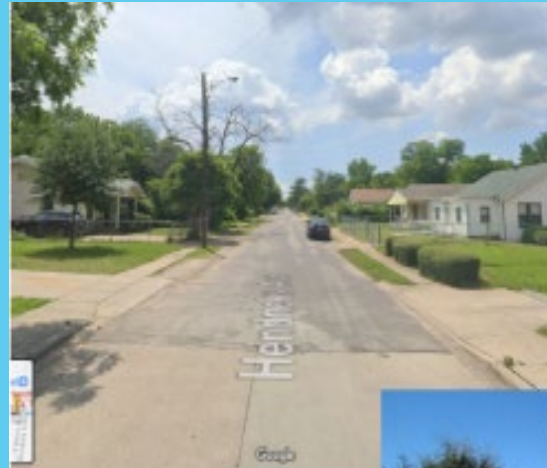
Reconstruction

- Reconstruction treatment
- New design of Concrete Pavements includes drainage and utility upgrades
- Needs a new engineering design prior to construction
- From 30-50 years service life if properly cared for
- Cost (Approximately):
 - Improved and Unimproved Alleys Recon/Con: **\$350/Linear Foot**
 - Street Reconstruction- Local: **\$2.1M/Lane Mile**
 - Street Reconstruction- Thoroughfare: **\$3.7M/Lane Mile**
 - Unimproved Street Reconstruction: **\$2.5M/Lane Mile**
 - Complete Street: **\$2.4M/Lane Mile**
 - Sidewalks Recon/Con: **\$150-\$200/Linear Foot**

Resurfacing



Reconstruction



2012 Bond Program—Hendricks Street from Denley to Moore



Useful References

- ▶ Lots of Information can be obtained by visiting the Public works Website as shown on the picture
- ▶ <https://dallascityhall.com/departments/public-works/Pages/Data-and-Maps.aspx>



HOME
ABOUT THE DIRECTOR
ADMINISTRATIVE AND FINANCIAL SERVICES
CITY SERVICE REQUEST
CONSTRUCTION STANDARDS
DATA AND MAPS
ENGINEERING, INTERAGENCY AND SURVEY SERVICES
PARTNERSHIP PROGRAMS
PAVEMENT MANAGEMENT
REAL ESTATE
RIGHT-OF-WAY

Data and Maps

2017 Bond Program

All projects in the 2017 Bond Program.

Active Capital Projects

Capital projects from the 2017 bond program and previous bond programs that are under design, under construction, or recently completed.

Project Coordination

Capital Improvement Program, Maintenance and DWU projects.

Infrastructure Management Program

Comprehensive Plan for maintaining the City's Streets, Sidewalks, and Alleys.

Needs Inventory

The Needs Inventory is the list of the City's needs based on maintenance records, master plans, citizen input, and Council recommendations.

Pavement Condition

Pavement Condition of City-maintained streets and alleys.

PBW Maintenance Projects

Street Maintenance Program

Right-of-Way Permits

Right-of-Way permits and inspections for construction

Thoroughfare Plan

The Thoroughfare Plan and the Central Business District

Next Meetings

Date	Meeting Topics
May 25th 2023	Scorning and Technical Criteria
June 3rd 2023	Field Trip 1
June 10th 2023	Field Trip 2
June 13th 2023	Needs Inventory: Alleys, Sidewalks, Bridges
June 20th 2023	Needs Inventory: Signals, Quiet Zones, Street Lighting
August 15th 2023	Intergovernmental Partnership Projects
August 22nd 2023	Needs Inventory: Street Reconstruction- Local, Streets Reconstruction- Thoroughfare, Unimproved Streets, Complete Streets, and Streets Resurfacing

Questions & Answers



City of Dallas

2024 Community Bond Task Force and Subcommittees

June 13, 2023

**Introduction to the Public Works Bond Program
Department of Public Works
City of Dallas**