



# TEXAS DEPARTMENT OF TRANSPORTATION



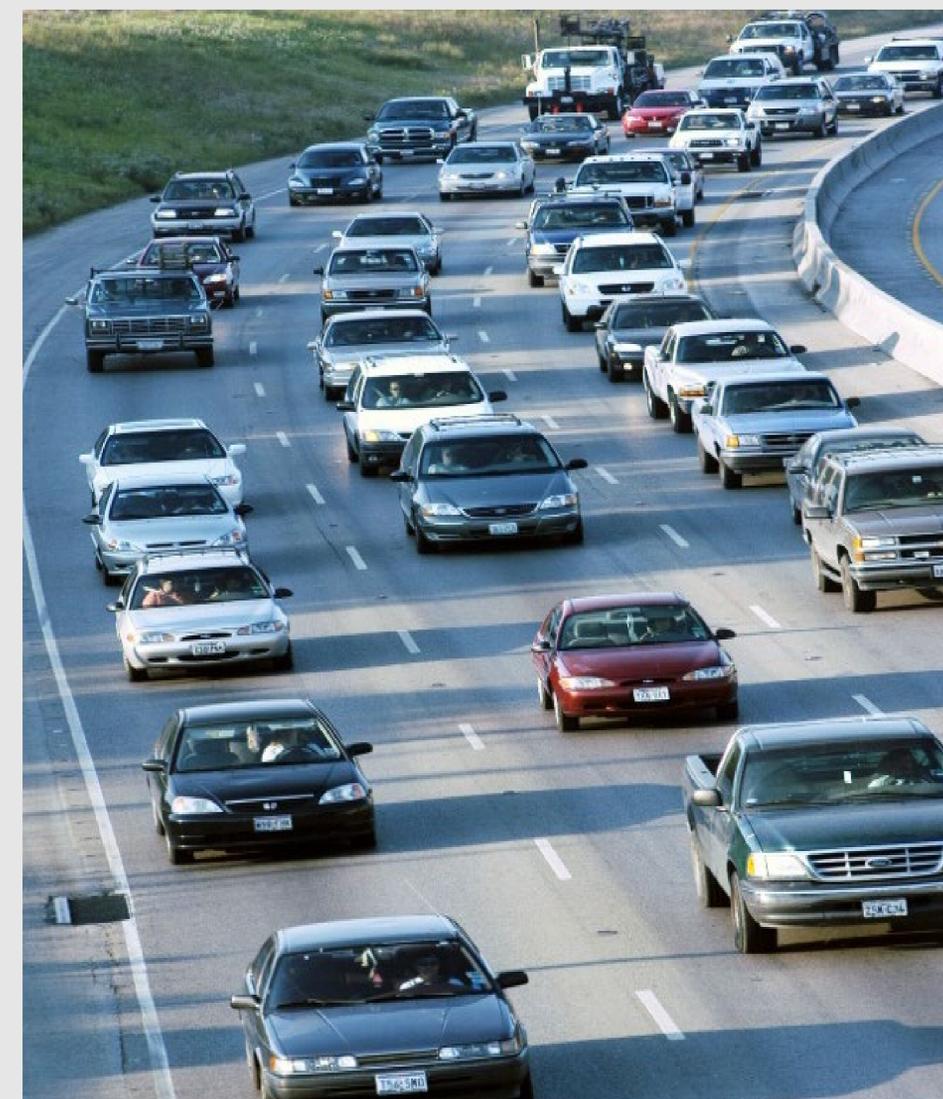
# WELCOME

## BICYCLE USE ON THE STATE HIGHWAY SYSTEM

**TxDOT Dallas District Public Hearing**

**October 24, 2018 6 – 8 p.m.**

City of Richardson Civic Center, 411 West Arapaho Road, Richardson, Texas



*The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.*



# TEXAS DEPARTMENT OF TRANSPORTATION



# WELCOME

## BICYCLE USE ON THE STATE HIGHWAY SYSTEM

**TxDOT Fort Worth District Public Hearing**

**October 29, 2018 6 – 8 p.m.**

City of North Richland Hills Centre, 6000 Hawk Ave., North Richland Hills, Texas



*The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.*



TEXAS DEPARTMENT OF TRANSPORTATION

# ONLINE SURVEY

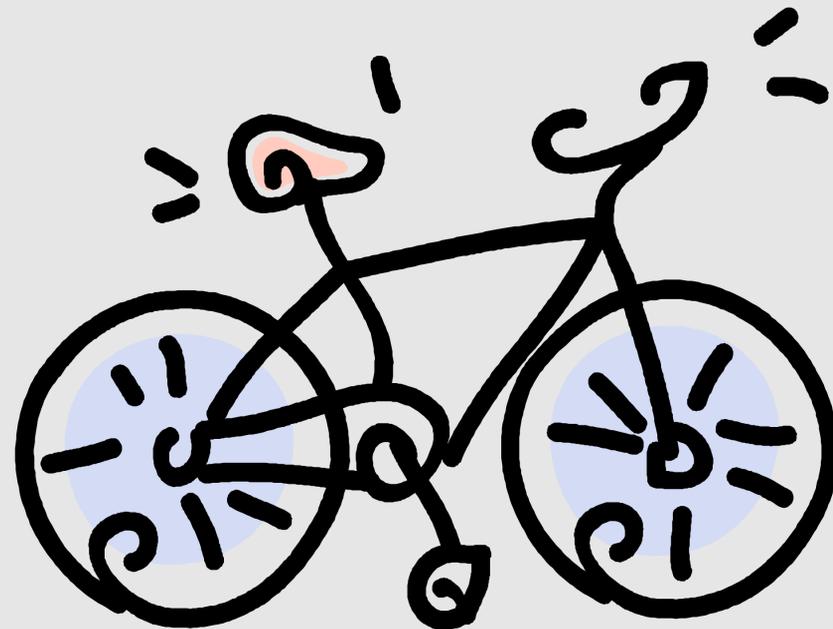
**PLEASE PARTICIPATE IN OUR  
ONLINE SURVEY**

**IT WILL TAKE 5-7 MINUTES TO COMPLETE**

**THANK YOU!**

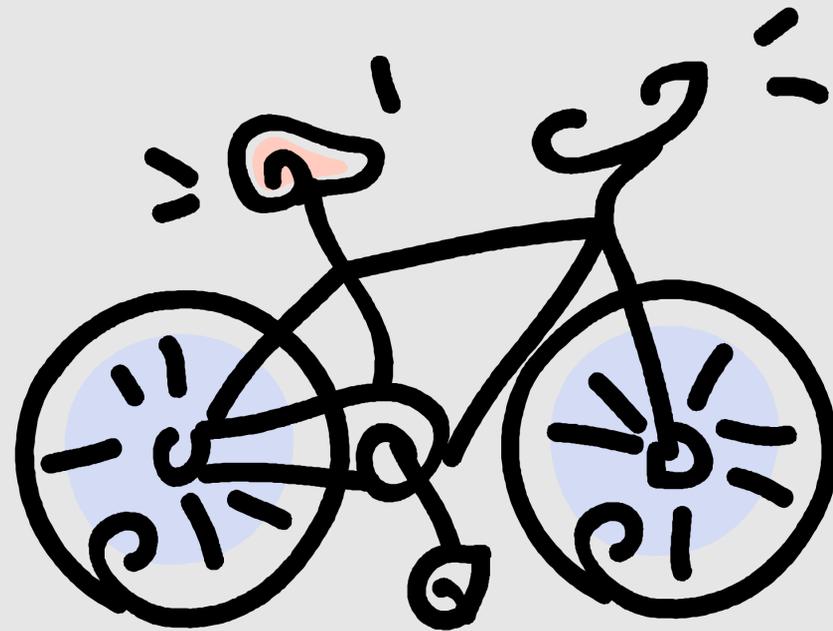
# Purpose of the Public Hearing

***The purpose of the public hearing is to provide information on the bicycle plans, policies, and programs for the TxDOT Dallas District and NCTCOG, and to receive public comment.***



# Purpose of the Public Hearing

***The purpose of the public hearing is to provide information on the bicycle plans, policies, and programs for the TxDOT Fort Worth District and NCTCOG, and to receive public comment.***



# Planning and Designing Bicycle Facilities

## ■ Connectivity

- Mobility 2045 by the Regional Transportation Council
  - Adopted by City Council, Regional MPO, local commission, and/or Texas Transportation Commission
  - Generally identifies preferred bicycle route(s), potential deficiencies, and future planned bicycle facilities

## ■ Standards and Guidelines

- TxDOT Roadway Design Manual (Rev. 2014)
- AASHTO
  - Guide for the Development of Bicycle Facilities (2012)
- TxMUTCD (2011)
  - Pavement Markings and Signage



# Texas Transportation Code, Title 7, Subtitle C

## SUBCHAPTER B. REGULATION OF OPERATION

### Sec. 551.101. RIGHTS AND DUTIES.

(a) A person operating a bicycle has the rights and duties applicable to a driver operating a vehicle under this subtitle, unless:

(1) a provision of this chapter alters a right or duty; or

(2) a right or duty applicable to a driver operating a vehicle cannot by its nature apply to a person operating a bicycle.

(b) A parent of a child or a guardian of a ward may not knowingly permit the child or ward to violate this subtitle.

### Sec. 551.103. OPERATION ON ROADWAY.

(a) Except as provided by Subsection (b), a person operating a bicycle on a roadway who is moving slower than the other traffic on the roadway shall ride as near as practicable to the right curb or edge of the roadway, unless:

(1) the person is passing another vehicle moving in the same direction;

(2) the person is preparing to turn left at an intersection or onto a private road or driveway;

(3) a condition on or of the roadway, including a fixed or moving object, parked or moving vehicle, pedestrian, animal, or surface hazard prevents the person from safely riding next to the right curb or edge of the roadway; or

(4) the person is operating a bicycle in an outside lane that is:

(A) less than 14 feet in width and does not have a designated bicycle lane adjacent to that lane; or

(B) too narrow for a bicycle and a motor vehicle to safely travel side by side.

## ■ Consider bicycle accommodations in the planning phase

### – Off-Street Bicycle Accommodations

- Shared use path (10 foot minimum, 12 foot preferred)
  - Multimodal facility shared by bicyclists and pedestrians
  - Often referred to as **sidepath** when adjacent to roadway

### – On-Street Bicycle Accommodations

- Shared lane/ Wide outside lane
  - 14 foot minimum width
  - Travel lane intended to be shared by cars and bikes
- Paved Shoulders
  - 4 foot minimum without curb or adjacent vertical obstructions
  - 5 foot minimum where curb or adjacent vertical obstructions exist
  - Shoulders may include bike lane striping at intersections
- Bike lanes
  - 5 foot minimum with curb and gutter (4 foot minimum without curb and gutter)
  - May include striped buffer
  - Exclusive use by bicyclist
  - Sidewalk use by pedestrian



# NACTO Urban Bikeway Design Guide

## ▪ Separated Bike Lane

– Exclusive bicycle facility separated by motor vehicle traffic by a vertical element

- One-way protected bike lanes
  - *May be adjacent to sidewalk*
- Raised separated bike lanes
  - *Consider operational issues at intersections and driveways*
- Two-way separated bike lanes



## ▪ Buffered Bike Lanes

– Provide separation from adjacent travel lane and/or parking lane



## Guidelines Emphasizing Bicycle & Pedestrian Accommodations

- Construction projects within existing right of way and where scope of work is limited to existing typical cross section:
  - Remove barriers to better accommodate bicyclist and pedestrians
  - As part of resurfacing, restripe a roadway project to provide a 14-foot-wide outside lane wherever practical
- Construction projects within existing right of way and where scope of work involves pavement widening:
  - Provide 14-foot-wide outside lane or 5-foot-wide designated bicycle lane
  - Provide ADA compliant sidewalks and curb ramps
- Full Reconstruction / New Projects:
  - New right of way acquired
  - Bikeway facilities should be designed to meet the desired geometric values shown in the Roadway Design Manual and AASHTO Bike Guide.
  - Pedestrian accommodations should be designed to meet TAS / ADAAG requirements.
  - Provide a 6-foot wide median for pedestrian refuge (PROWAG), wherever practical.



# Bicycle and Pedestrian Accommodation Toolkit

The screenshot shows the Texas Department of Transportation (TxDOT) website. The main navigation bar includes "A-Z Site Index", "Contact Us", and "Español". Below this is a search bar and a secondary navigation bar with "Driver", "Government", "Business", "Inside TxDOT", and "Jobs". The "Inside TxDOT" section is active, showing a list of divisions on the left and the "Bicycle and Pedestrian Accommodation Toolkit" page content on the right. The toolkit page includes an introduction, a list of documents with titles, descriptions, and formats, and a footer with contact information and social media links.

**Divisions**

- Advisory
- Bridge
- Civil Rights
- Communications
- Compliance
- Construction
- Contracts and Purchasing
- Design
- Environmental Affairs
- Financial Management
- Fleet Operations
- General Counsel
- General Services
- Government Affairs
- Human Resources
- Information Technology
- Internal Audit
- Maintenance
- Maritime
- Occupational Safety
- Professional Engineering
- Procurement Services
- Project Finance and Debt Management
- Public Transportation
- Rail
- Real Estate Management and Development
- Right of Way
- Research & Technology Implementation
- Strategic Contract Management
- Strategic Planning
- Support Services
- Toll Operations
- Traffic Operations
- Transportation Planning/Programming
- Travel Information

## Bicycle and Pedestrian Accommodation Toolkit

Home > Inside TxDOT > Divisions > Environmental Affairs > Environmental Compliance Toolkits

Legislation and regulations require the inclusion of bicycle and pedestrian policies and projects in transportation plans and project development, and federal policy is increasingly committed to develop and invest in bicycle and walking infrastructure.

Environmental practitioners use these tools to address bicycle and pedestrian accommodation as required by U.S. Department of Transportation (USDOT) and TxDOT policy.

Questions? Contact the statewide coordinator at (512) 374-5235.

You may download the software (Tools and Plug-Ins) needed to access forms or view frequently asked questions (Online Forms FAQs).

[Subscribe to Updates](#)

Title	Description	Format
Bicycle and Pedestrian Environmental Handbook	Outlines the process to comply with both the U.S. Department of Transportation Policy Statement on Bicycle and Pedestrian Accommodation and TxDOT's policy for bicycle and pedestrian accommodation	PDF
Guidelines Emphasizing Bicycle and Pedestrian Accommodations	Explains TxDOT policy to proactively plan, design and construct facilities to safely accommodate bicycles and pedestrians	PDF

### Additional Resources

Title	Description	Format
U.S. Department of Transportation Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations	Details U.S. DOT's support for the development of fully integrated transportation networks with walking and bicycling components, and incorporating these elements into highway designs as part of federal-aid project development	PDF
Public Rights-of-Way Accessibility Guidelines (PROWAG)	Provides guidance to ensure that sidewalks, pedestrian street crossings, pedestrian signal, and other facilities are readily accessible to and usable by pedestrians with disabilities	PDF
Architectural Barriers Texas Accessibility Standards (TAS)	Contains scoping and technical requirements from the Texas Department of Licensing and Regulation's Architectural Barriers Division for accessibility to sites, facilities, buildings and elements by individuals with disabilities	PDF
Texas Administrative Code 16 TAC 68.102	Outlines applicability of pedestrian elements, and explains the sidewalk and curb ramp compliance requirements for transportation projects	PDF
2010 Americans with Disabilities Act (ADA) Standards for Accessible Design	U.S. Department of Justice revised accessibility standards under the ADA, which set minimum requirements for government facilities, public accommodations and commercial facilities to be accessible to individuals with disabilities	PDF
American Association of State Highway and Transportation Officials (AASHTO) Guide for the Development of Bicycle Facilities*	Addresses bicycle-related issues and clarifies the elements needed to make bicycling a viable transportation alternative in all phases of transportation planning, design and construction	PDF
AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities*	Provides guidance on the planning, design and operation of pedestrian facilities along streets and highways, and focuses on identifying effective measures for accommodating pedestrians on public rights of way	PDF
TxDOT's Roadway Design Manual (TDM)	Provides guidance in the geometric design of roadway facilities and represents a synthesis of current information and operating practices	PDF
FHWA's Pedestrian Safety Guide for Transit Agencies	Provides a 15-year plan for pedestrian safety research and technology transfer that addresses pedestrian safety concerns and identifies problems and solutions related to the roadway environment	PDF

\* Available for purchase from AASHTO

**Page Options**

**Inside TxDOT**

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- TxTag
- MY35.org
- I-69
- Roads for Texas Energy
- Freight Advisory Committee
- Texas Transportation Forum

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You can access TxDOT's Bicycle and Pedestrian Accommodation Toolkit at:

<http://www.txdot.gov/inside-txdot/division/environmental/compliance-toolkits/bicycle-pedestrian.html>

OR

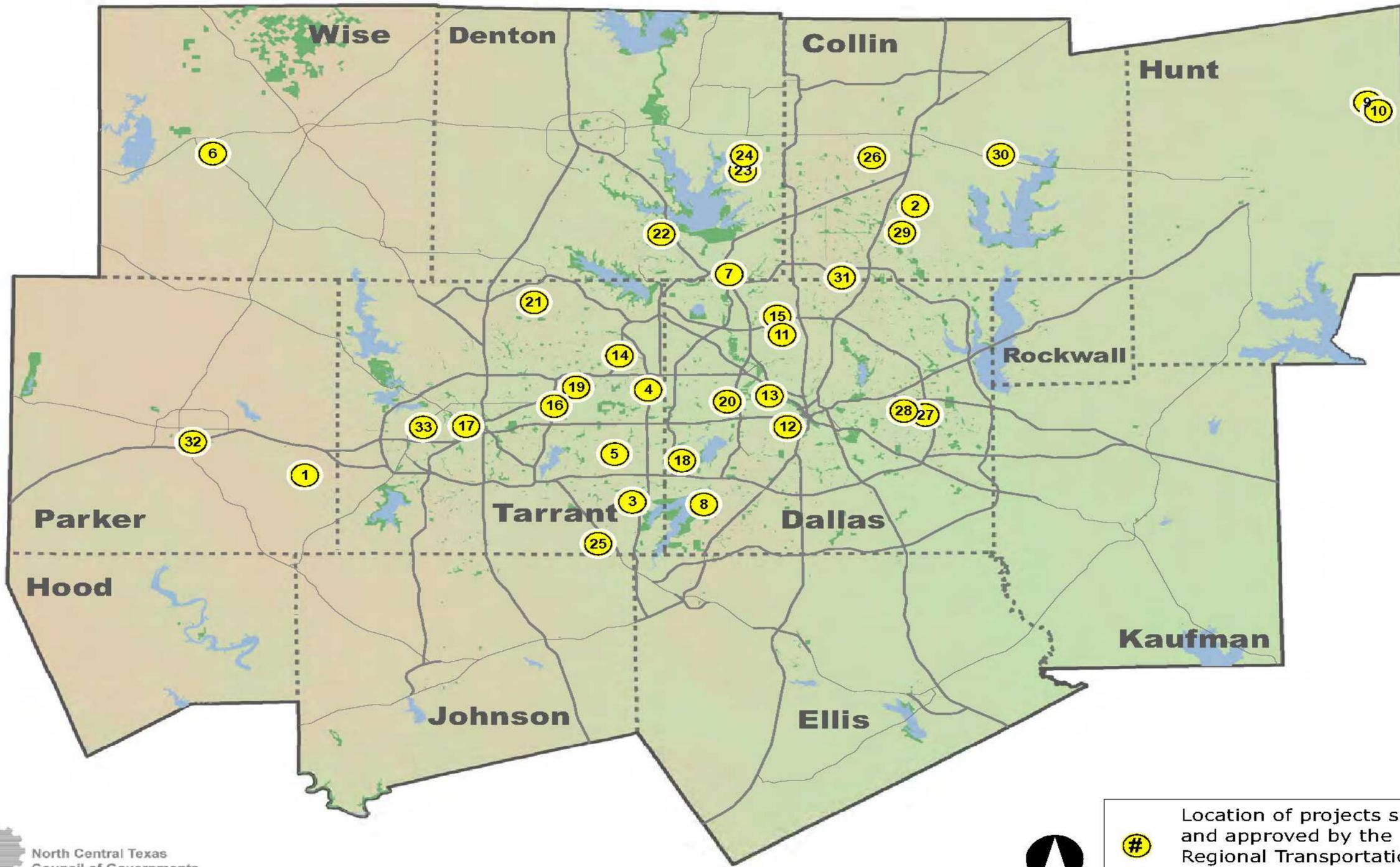
Type in "*Environmental Compliance Toolkit*" in Google and click on "*Bicycle and Pedestrian Accommodation*"

TxDOT bicycle accommodation information can also be found at the following website:

<https://www.txdot.gov/inside-txdot/modes-of-travel/bicycle.html>

# Bicycle and Pedestrian Projects Awarded TAP Funding

## 2014 Transportation Alternatives Program - Funded and Approved







# Main Street Paving & Streetscape Improvements

(From FM 731 (Crowley Road) to Beverly Street)



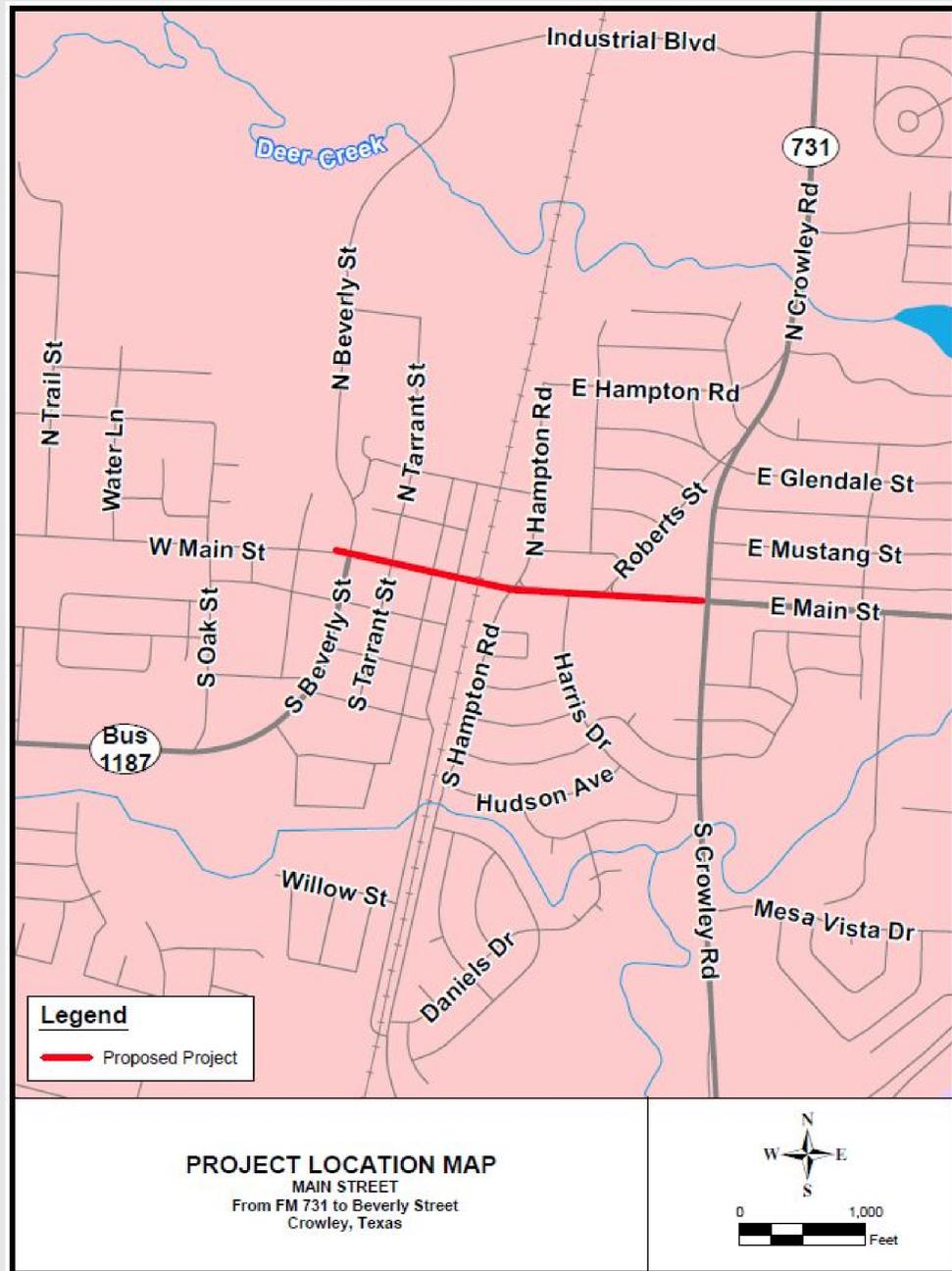
## Proposed Roadway Improvements:

- ~0.54-mile (3,000 LF) concrete roadway with curb and gutter
- Curb inlets and an underground drainage system
- Roundabouts at Beverly Street and Roberts Street
- On-street parking improvements

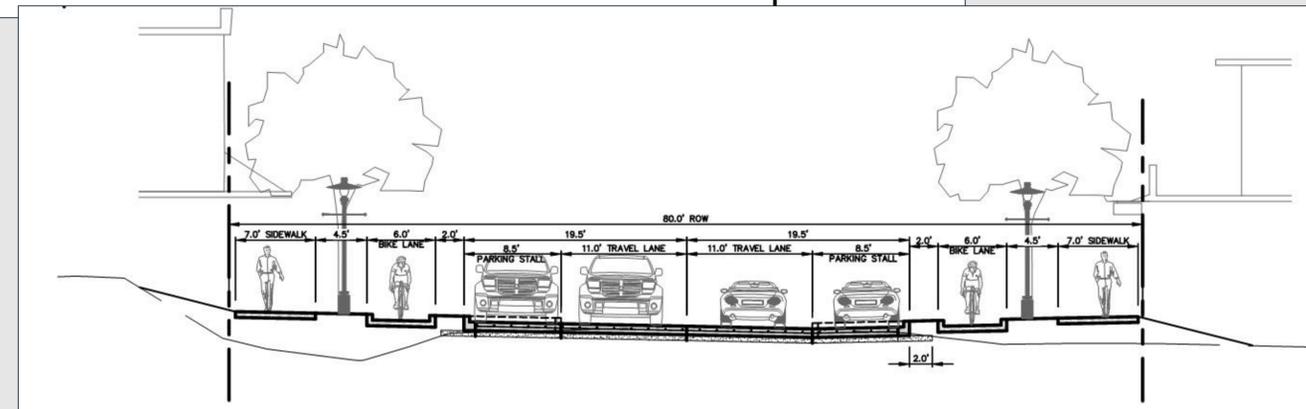
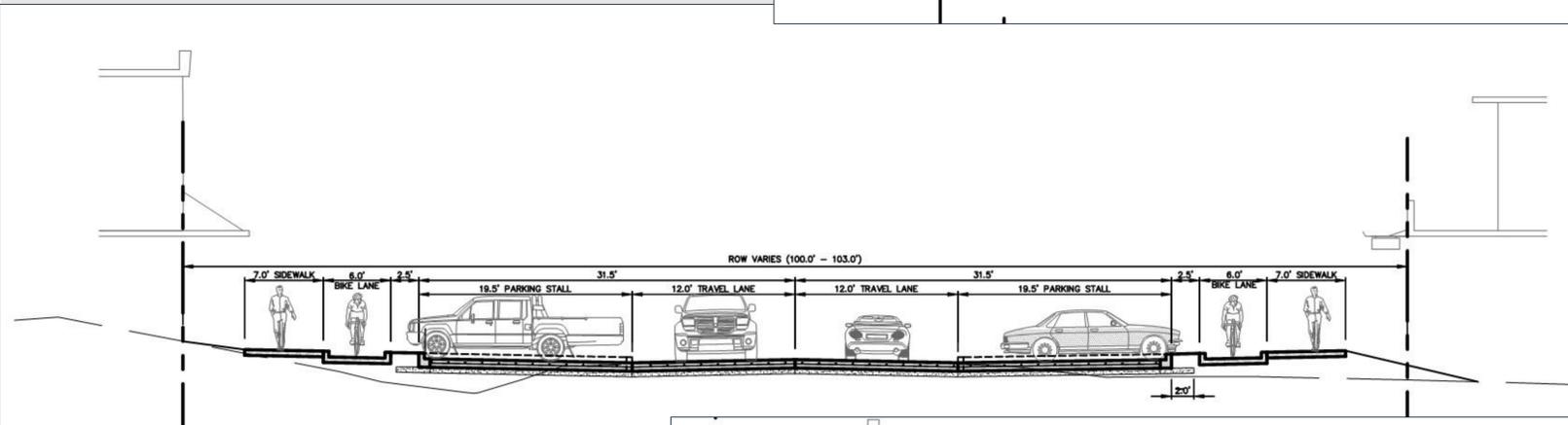
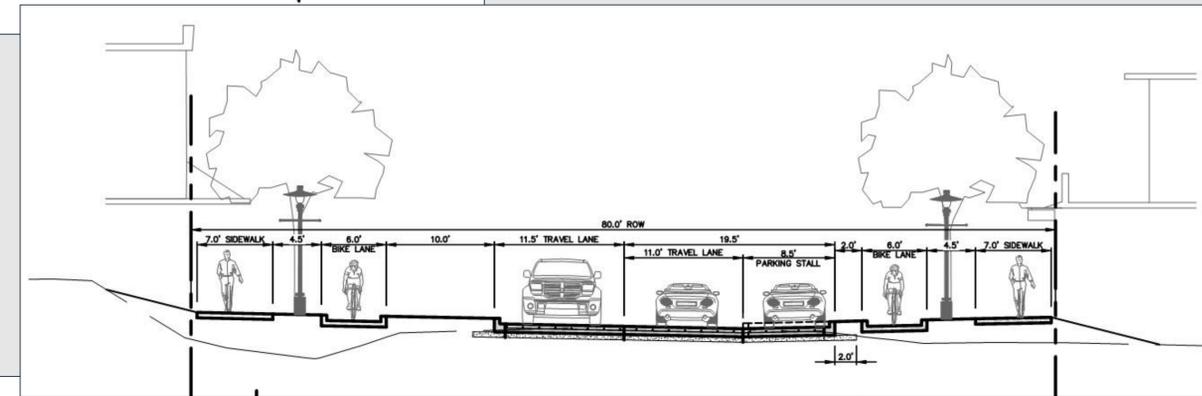
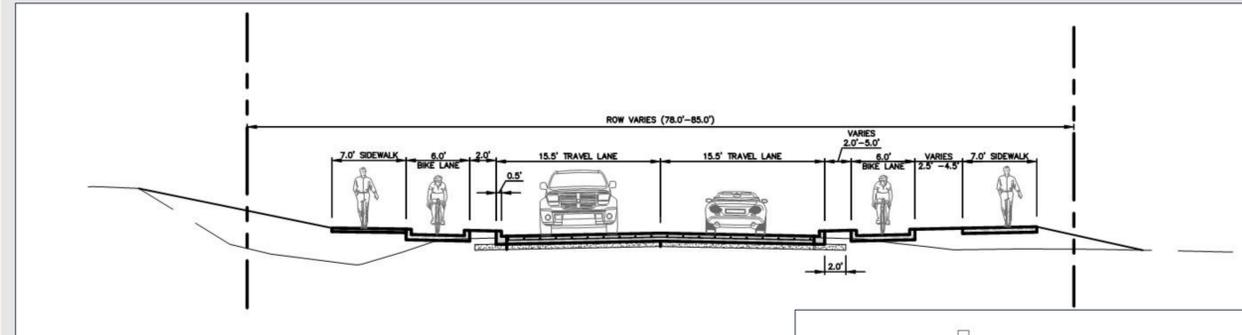
## Proposed Streetscape Improvements:

- 6-foot wide separated bike lanes
- 7- to 11-foot ADA compliant sidewalks
- Pedestrian light posts and landscape planting
- Street furniture – benches, trash receptacles, bike racks, tree grates
- Enhanced paving pattern on sidewalks and pedestrian crosswalks

# Project Limits & Typical Sections



## Proposed Typical Sections



Estimated Cost: \$ 7.2 Million

Anticipated Construction Start: Mid-2019

Anticipated Construction Duration: ~1 year