TEXAS DEPARTMENT OF TRANSPORTATION

WELCOME

TO THE UNITED STATES HIGHWAY (US) 90 IMPROVEMENT PROJECT VIRTUAL PUBLIC MEETING

FROM INTERSTATE HIGHWAY (I) 10 TO FARM-TO-MARKET (FM) 1463

Why Am I Here?

- Learn about the proposed alternatives
- Review the proposed improvements
- Submit comments

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 9, 2019, and executed by FHWA and TxDOT.

July 28, 2020 - August 12, 2020

US 90 Virtual Public Meeting

Introduce project

Present alternatives being considered

Obtain feedback on alternatives

US 90 Study Process

2019 | 2020 | 2021

Initiate Project

Collect Data

Identify Existing Conditions

Map Constraints

Develop Need & Purpose

Develop Alternatives

Develop Evaluation Criteria

Recommend an Alternative

Evaluate Alternatives

Develop Schematic & Environmental Documentation

You are here!

Public Involvement

Virtual Public Meeting

Public Involvement Opportunity

US 90 Project Overview

Project Facts

Location
Waller, Fort Bend and Harris Counties

Limits
From I-10 to FM 1463

Corridor Length
Approx. 10 miles

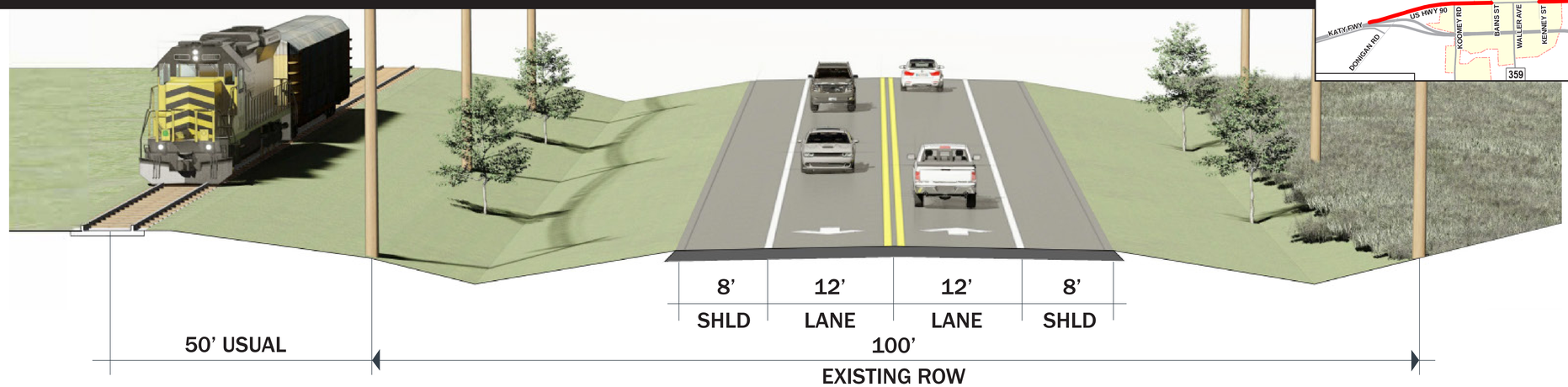
Existing Right-of-Way Width
100 feet

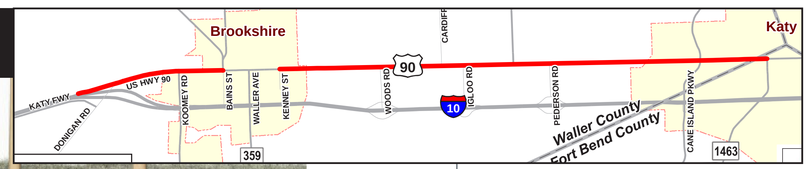
Existing Facility

- One lane in each direction
- 8-foot shoulders
- Open and closed drainage system

US 90 Existing Typical Sections

I-10 to Bains St & Kenney St to FM 1463 (100-foot ROW)

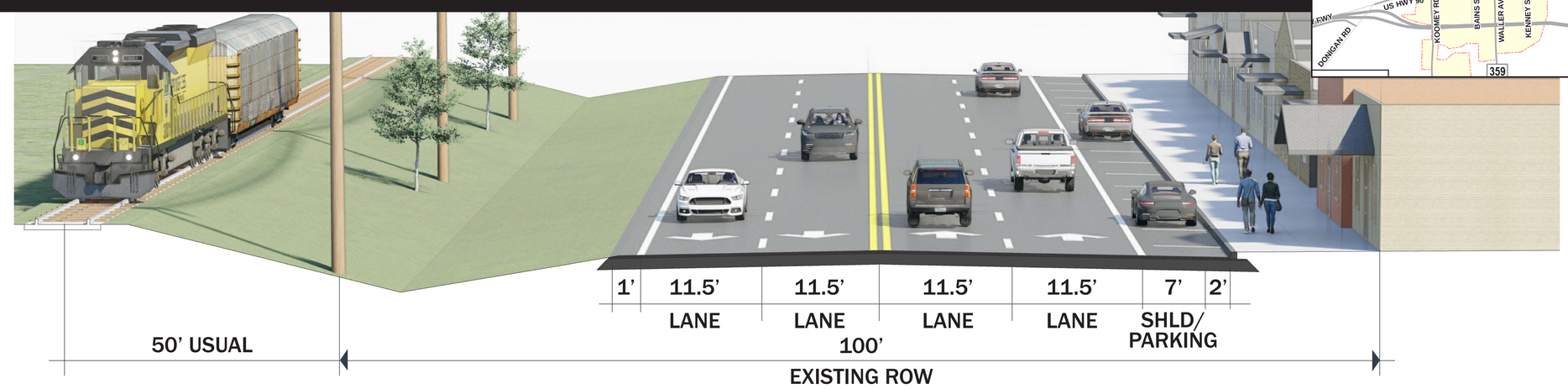


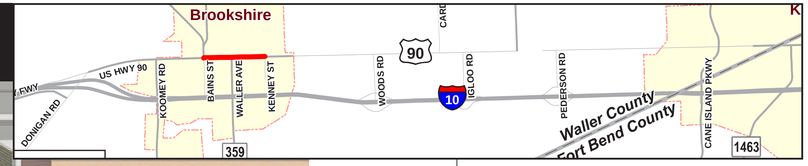


- Two undivided 12-foot travel lanes (one in each direction)
- 8-foot outside shoulders (SHLD)
- Open ditches
- Typical right-of-way (ROW) width of 100 feet

Note: Within the City of Katy, US 90 from Adams St to FM 1463 is a four-lane roadway.

Bains St to Kenney St (100-foot ROW)





- Four undivided 11.5-foot travel lanes (two in each direction)
- Partial curb and gutter
- Open ditches and closed storm sewer system
- 7-foot shoulder (SHLD)/parallel parking lane
- Typical right-of-way (ROW) width of 100 feet

Note: Within the City of Brookshire, US 90 from Purdy St to Kenney St transitions from a four-lane roadway to a two-lane roadway with a center left-turn lane.

US 90 Study Need and Purpose

What Are the Issues?

Study Needs

The current two-lane undivided roadway capacity is inadequate to meet future year (2045) traffic volumes, resulting in increased congestion and reduced mobility.

Crash rates on this segment of US 90 are higher than the average crash rates on similar roadways in Texas, resulting in potentially unsafe travel conditions and reduced mobility.

What Are We Trying to Do?

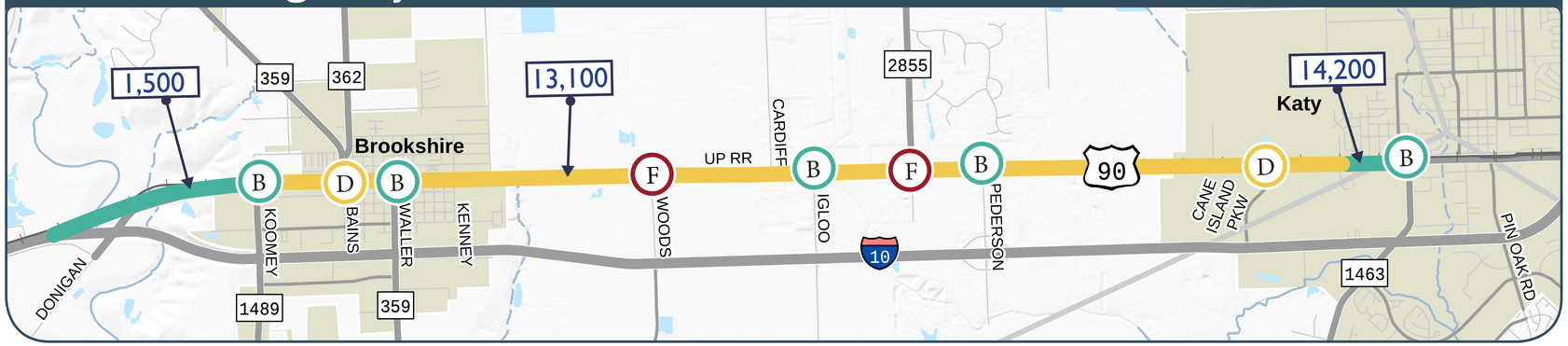
Study Purpose

Improve mobility within the project area

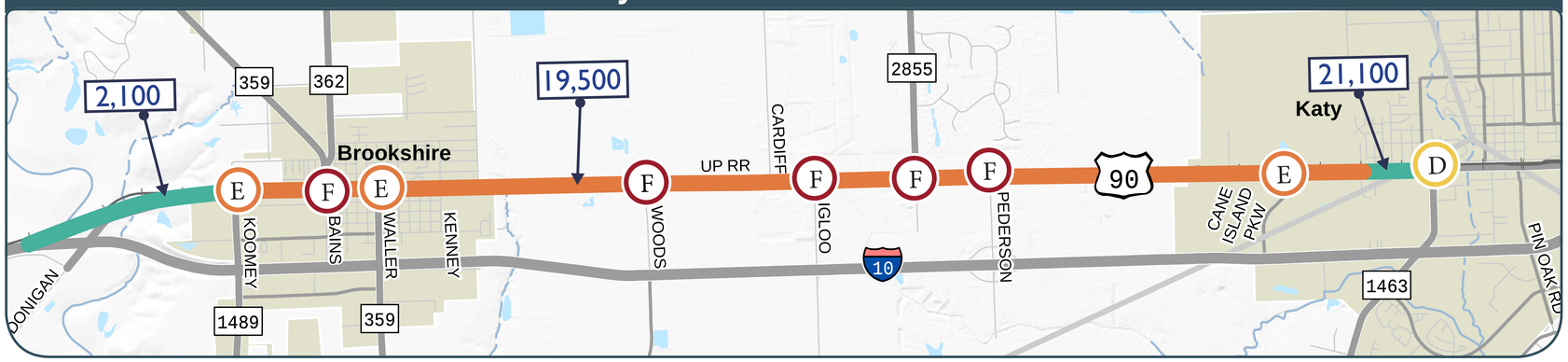
Improve safety within the project area

US 90 Daily Volumes and Level of Service (LOS)

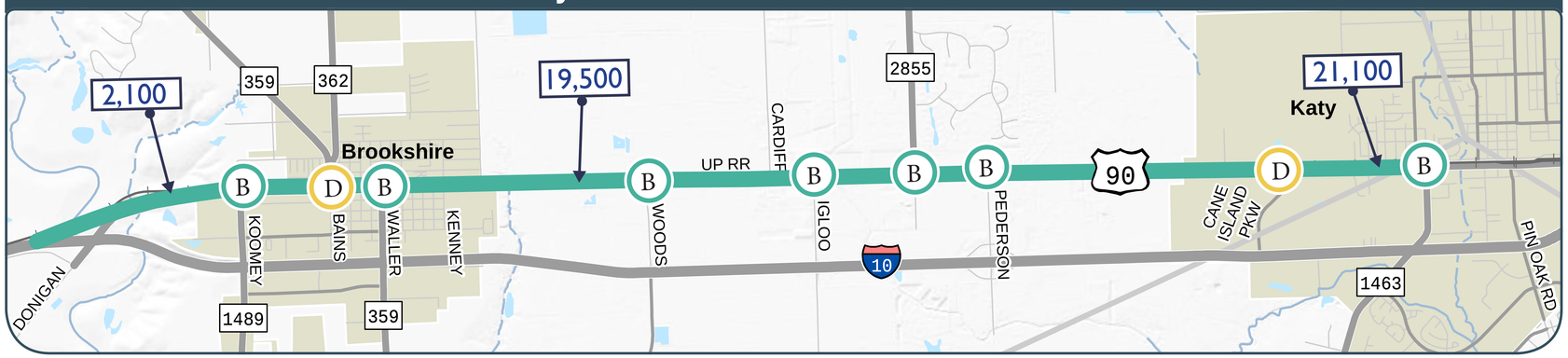
2019 Existing Daily Volume and LOS



2045 No Build Alternative Daily Volumes and LOS

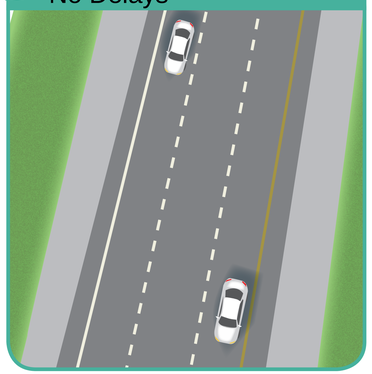


2045 Build Alternative Daily Volumes and LOS

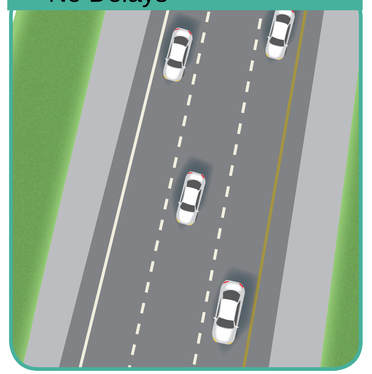


Level of Service Definitions

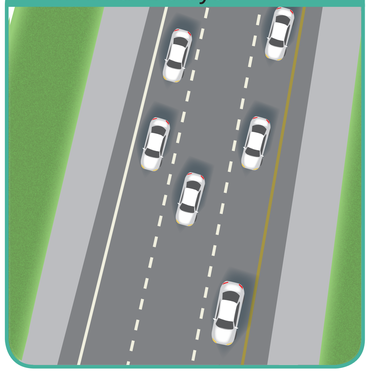
A Free Flow Traffic
No Delays



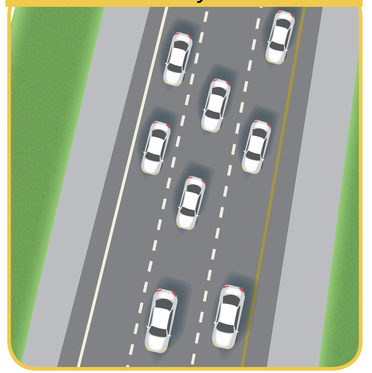
B Reasonably Free Flow
No Delays



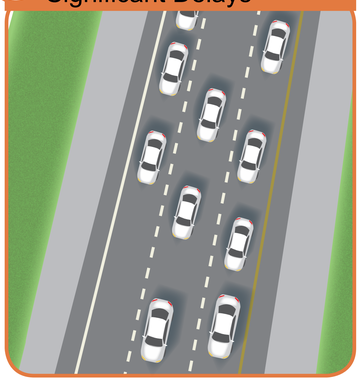
C Stable Flow
Minimal Delays



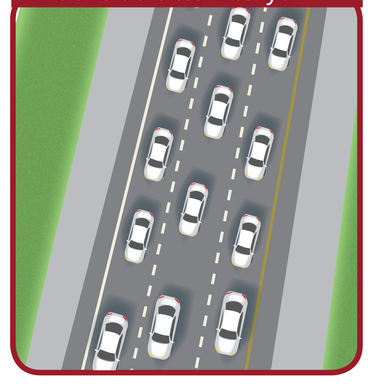
D Speeds Begin to Decline:
Minimal Delays



E Traffic at Capacity
Significant Delays

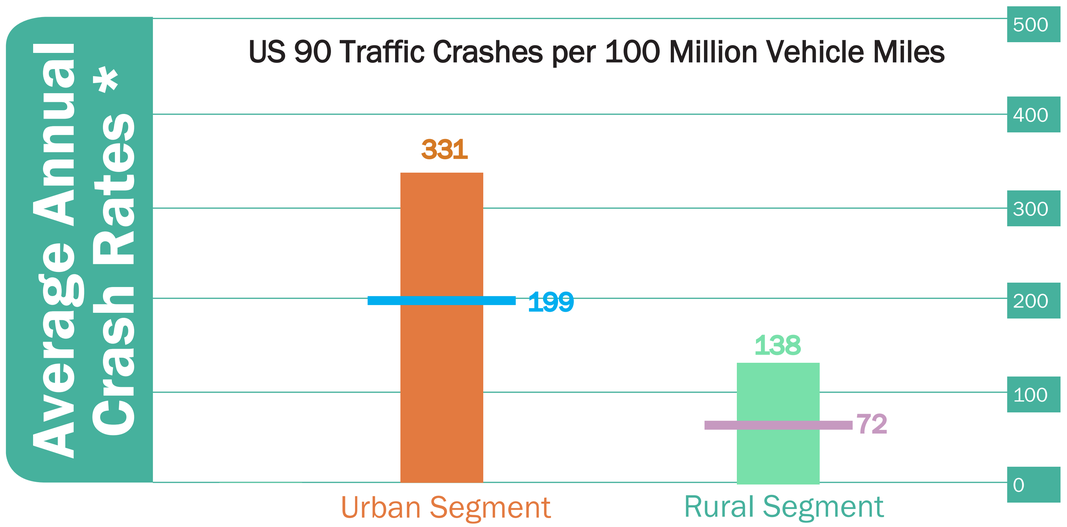


F Heaviest Congestion
Considerable Delays



US 90 Safety and Crash Analysis (Years 2016-2018)

Crash Severity and Density (I-10 to FM 1463)



*** US 90 crashes include two pedestrian and two bicycle crashes**

Legends

Map Legend

- Fatality
- **Crash Density**
  - High
  - Low
- County Line
- Urban Segment
- Rural Segment

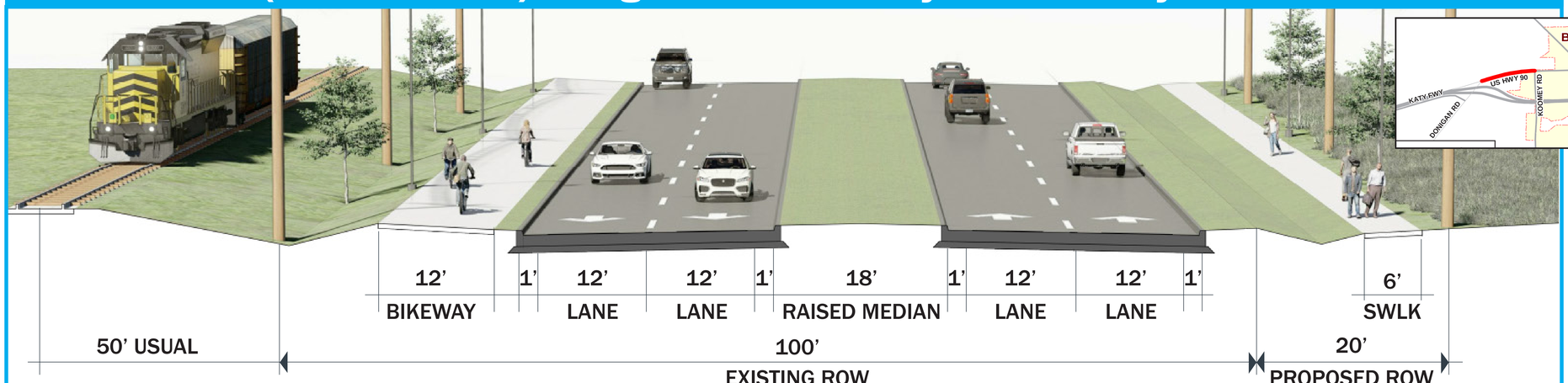
Chart Legend

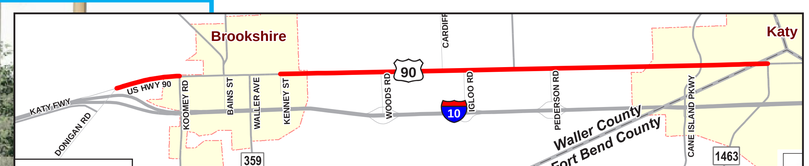
- **Average Annual Crash Rate (2016-2018)**
  - Urban Segment
  - Rural Segment
- **TxDOT Statewide Average Annual Crash Rate (2016-2018)**
  - Urban Segment
  - Rural Segment

Source: Crash Record Information System, TxDOT 2016-2018

US 90 Alternatives Typical Sections

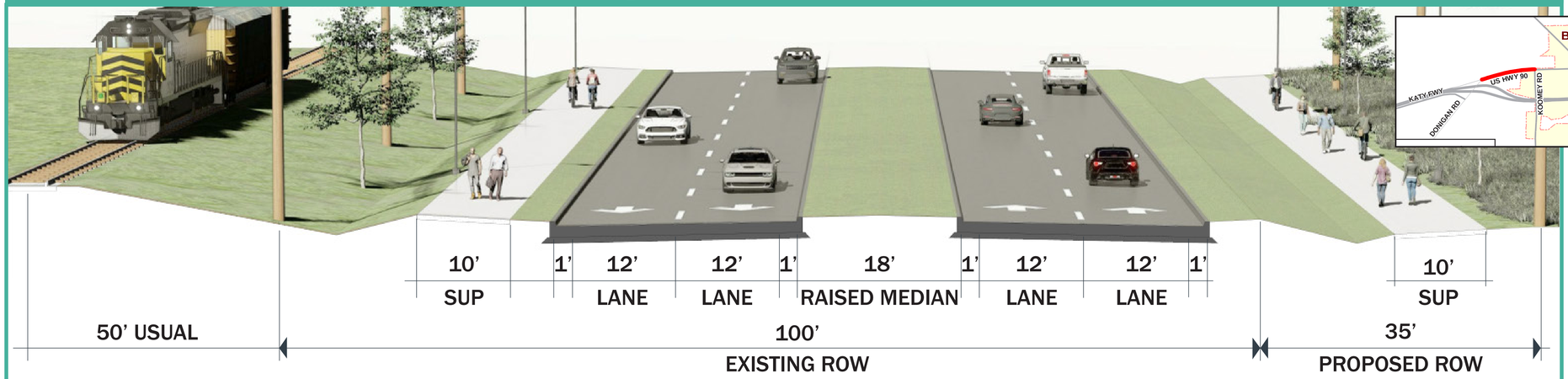
Alternative 1 (120-foot ROW) Donigan Rd to Koomey Rd & Kenney St to FM 1463

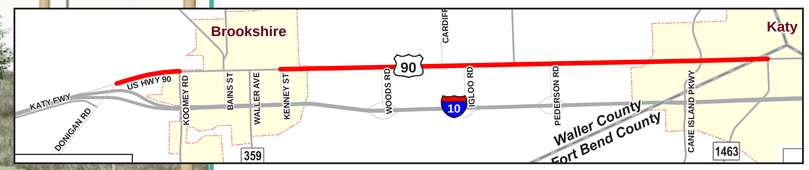




- Four 12-foot travel lanes (two in each direction)
- 18-foot raised median with openings
- Closed drainage system
- 12-foot bikeway on north side
- 6-foot sidewalk (SWLK) on south side
- Typical right-of-way (ROW) width of 120 feet

Alternative 2 (135-foot ROW) Donigan Rd to Koomey Rd & Kenney St to FM 1463



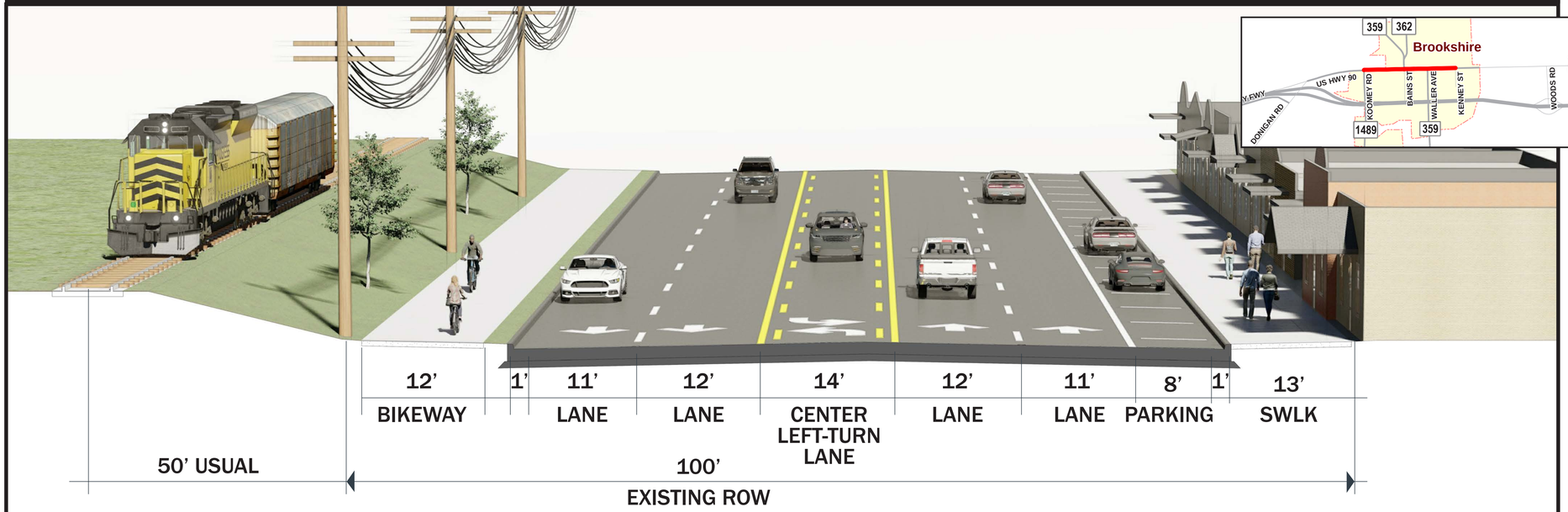


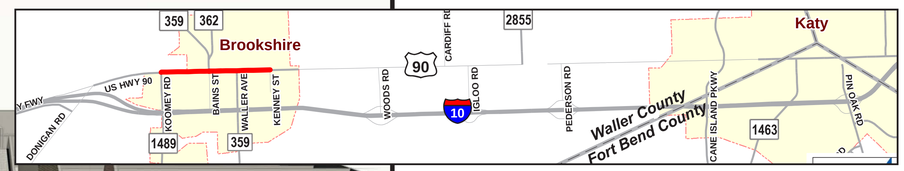
- Four 12-foot travel lanes (two in each direction)
- 18-foot raised median with openings
- Closed drainage system
- 10-foot shared-use path (SUP) on both sides
- Typical right-of-way (ROW) width of 135 feet

Note: For both Alternatives 1 and 2, improvements from I-10 to Donigan Rd would be limited to pavement upgrade and striping.

US 90 Proposed Typical Section within the City of Brookshire

Proposed Alternative (100-foot ROW) Koomey Rd to Kenney St



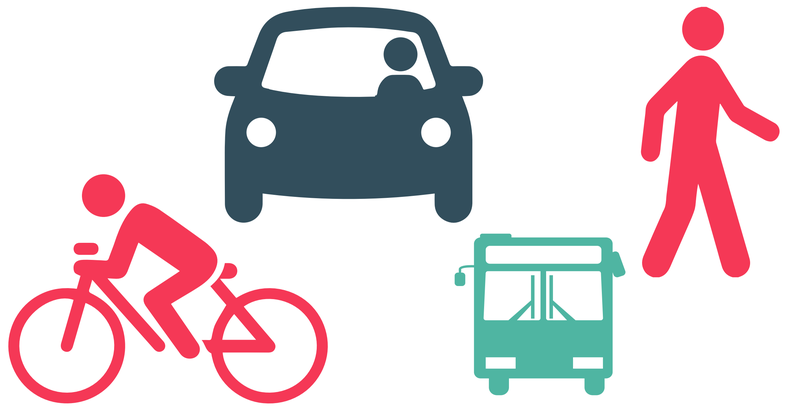


- Four 11-foot and 12-foot travel lanes (two in each direction)
- 14-foot center left-turn lane
- Closed drainage system
- 12-foot bikeway on north side
- 13-foot sidewalk (SWLK) on south side
- 8-foot parallel parking lane
- Typical right-of-way (ROW) width of 100 feet

Note: US 90 from Koomey Rd to Bains St includes 10-foot shared-use paths in both directions.

Objective

Balance needs and provide equitable access for all roadway users



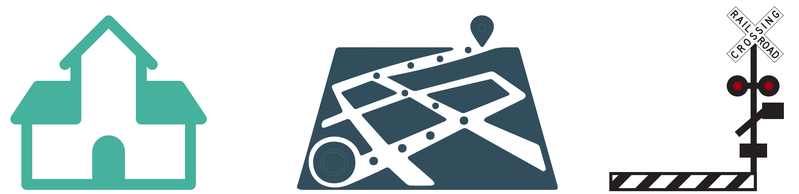
Design Considerations for Bicyclists and Pedestrians

Proximity to a school

Commercial development with multiple driveways on the south side

Adjacent railway with limited road crossings on the north side

Input from City of Katy, City of Brookshire, Katy ISD and Waller County



US 90 Evaluation of Build Alternatives

Note: The No Build Alternative will be evaluated during the environmental review process.

Evaluation Criteria		Alternative 1 120-foot ROW	Alternative 2 135-foot ROW
	ROW Acreage of ROW required, in addition to the existing TxDOT ROW	17.4	29.8
	Acreage of Proposed Detention Ponds & Access	15.8	15.8
	Utilities Linear feet of utilities	Electr. Trans. Lines: 16,690 Pipelines: 1,216	Electr. Trans. Lines: 16,735 Pipelines: 1,672
	Count of major utility crossings	7 Electr. Trans. Lines 27 Pipelines	7 Electr. Trans. Lines 27 Pipelines
	Traffic Control / Constructability High/Neutral/Low traffic control/constructability impacts	Neutral	Neutral
	Drainage Assessment High/Neutral/Low drainage impacts	Neutral	Neutral
	Waters of the United Stated, including Wetlands Linear feet of streams, creeks, bayous, etc.	126	187
	Acreage of wetlands as mapped by National Wetlands Inventory	0.8	1.4
	Floodplains Acreage within 100-year floodplain	3.2	4.1
	Acreage within 500-year floodplain	2.7	3.5
	Floodway Acreage of floodways	0.5	0.7
	Hazardous Materials Count of potential hazmat sites within project ROW	4	4
	Number of Structures Displaced Count of residential displacements	0	0
	Count of business displacements	0	3
	Count of other displacements	0	0
	Cultural Resources Acreage of surface survey recommended	1.5	2.2
	Count of National Register of Historic Places sites	0	0
	Environmental Justice Areas Adjacent to Project Census Block Groups	2	2

US 90 Improvements Next Steps

PROJECT NEXT STEPS

GATHER INPUT
Conduct virtual public meeting to present and solicit input on the proposed alternatives

We are here!

PREPARE
Prepare geometric schematic and environmental documentation for the recommended alternative

GATHER INPUT
Provide public involvement opportunity

REQUEST
Request project approval and funding

RIGHT-OF-WAY ACQUISITION AND CONSTRUCTION

All Comments must be received or postmarked by August 12, 2020

Comments can be provided:

Comment Card

Download the comment card from the website, fill it out and email or mail it to TxDOT

By Email

Submit to:
hou-piowebmail@txdot.gov

By Mail

TxDOT Houston District
Attn: Advanced Project Development Director
P.O. Box 1386
Houston, Texas 77251-1386

Online

www.txdot.gov

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