



TEXAS DEPARTMENT OF TRANSPORTATION

WELCOME

TO THE FARM-TO-MARKET (FM) 529 IMPROVEMENT PROJECT PUBLIC MEETING FROM STATE HIGHWAY (SH) 99 (GRAND PARKWAY) TO FM 362

Why Am I Here?

- **Learn** about the proposed alternative
- **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.

June 9, 2020

Purpose of the Meeting



Present project overview and updates



Present proposed alternative

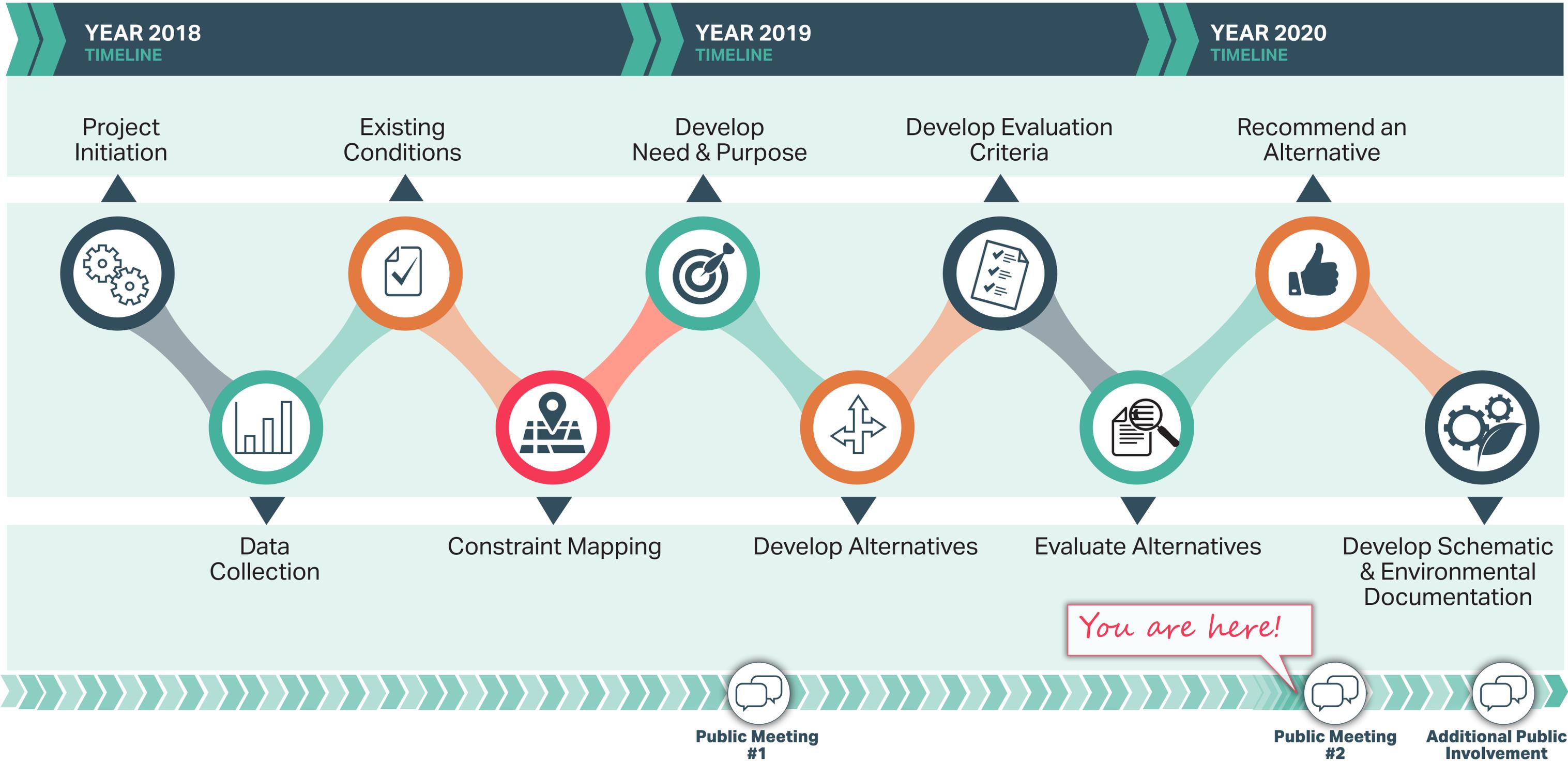


Obtain feedback on proposed improvements





FM 529 Study Process





FM 529 Project Area Facts



Project Facts

Location
Harris and Waller Counties

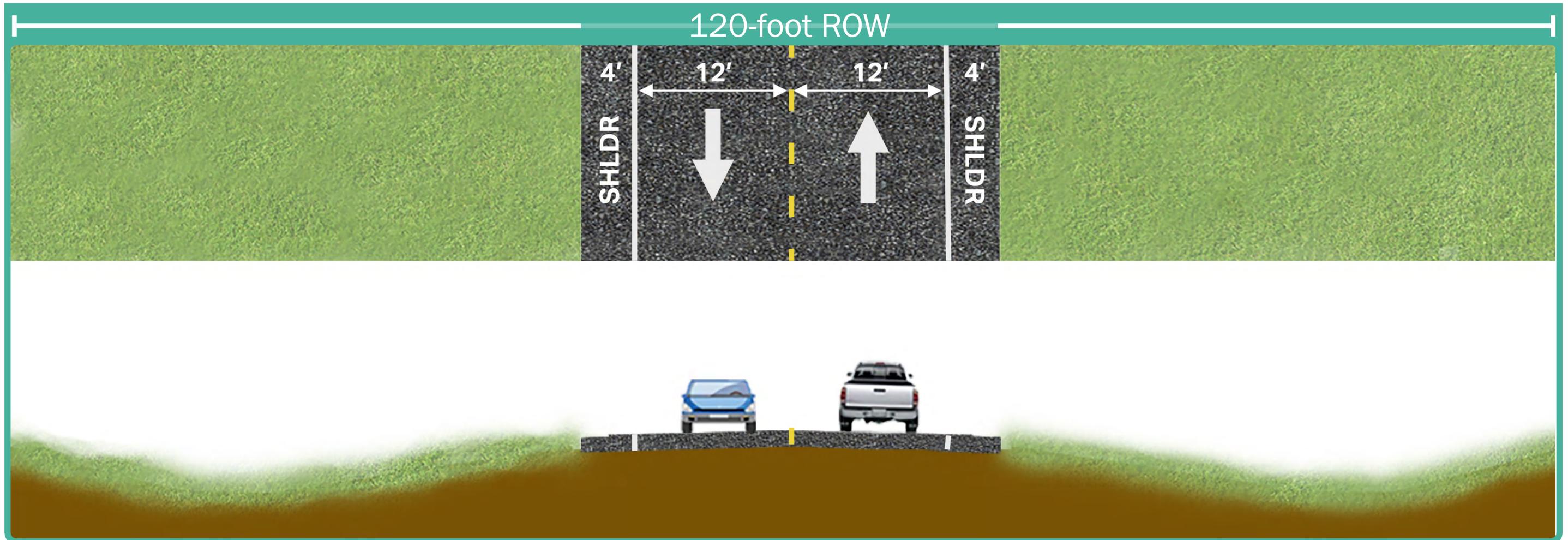
Limits
SH 99 (Grand Parkway) to FM 362

Corridor Length
Approx. 12 miles

Existing Right-of-Way Width
120 feet

Existing Facility

- One lane in each direction
- 4-foot shoulders
- Open drainage system



Existing Typical Section

- Two undivided 12-foot wide travel lanes (one in each direction)
- 4-foot outside shoulders (SHLDR)
- Open ditches
- Typical right-of-way (ROW) width of 120 feet

What Are the Issues? Study Needs

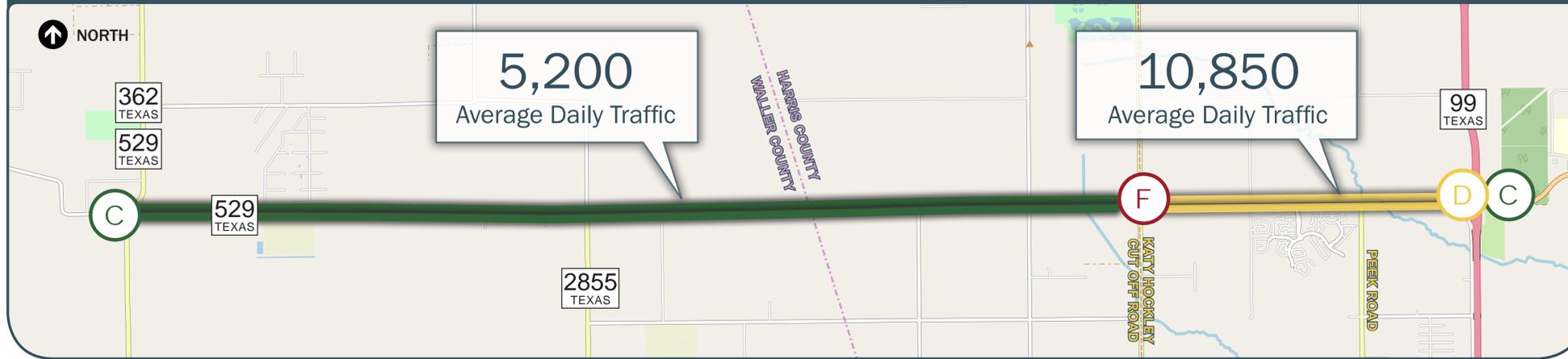
- Two-lane undivided roadway does not provide adequate mobility to accommodate projected traffic volumes
- Crash rates are higher than statewide average along the proposed project corridor

What Are We Trying to Do? Study Purpose

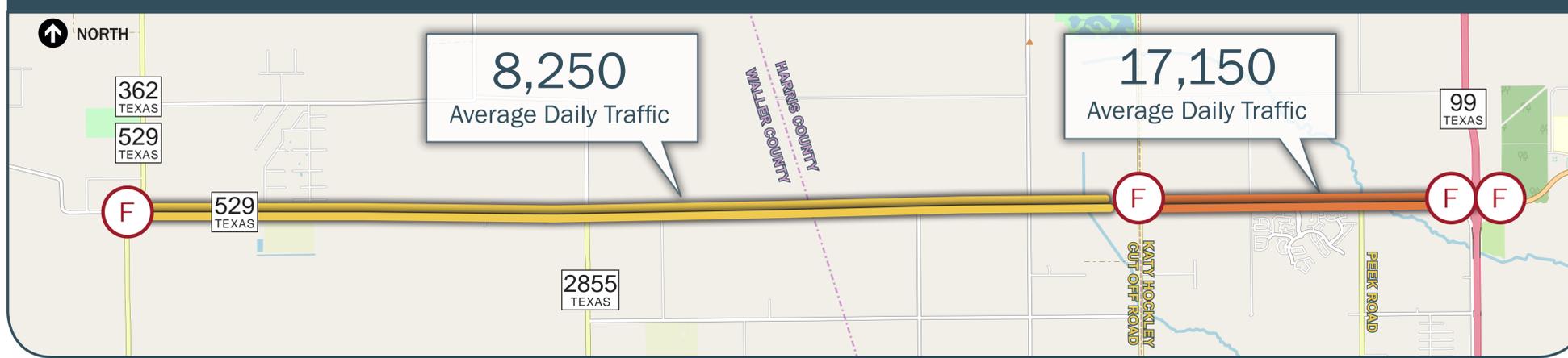
- Improve mobility within the study area
- Improve safety within the study area



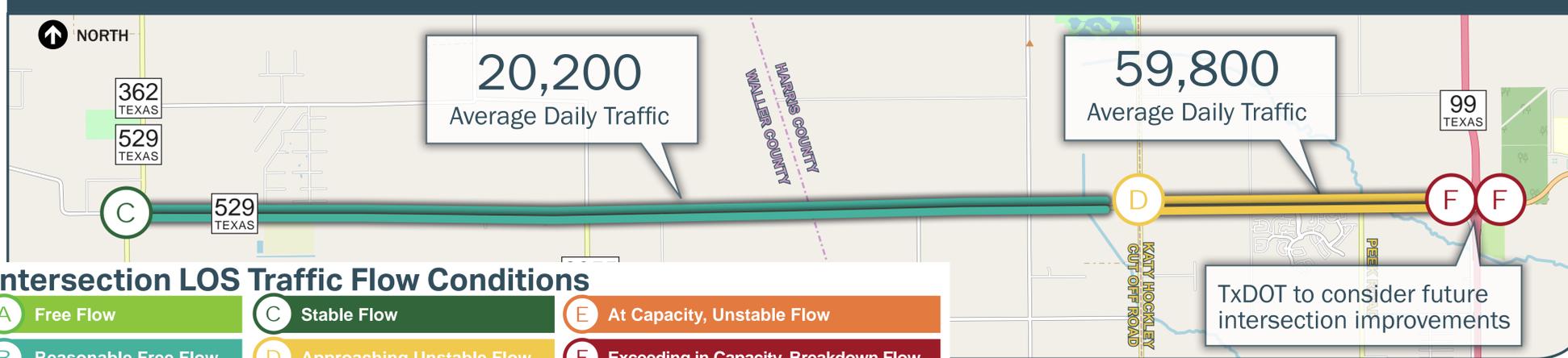
2018 Existing Level of Service



2045 No Build Level of Service



2045 Build Level of Service



Intersection LOS Traffic Flow Conditions

- A Free Flow
- C Stable Flow
- E At Capacity, Unstable Flow
- B Reasonable Free Flow
- D Approaching Unstable Flow
- F Exceeding in Capacity, Breakdown Flow

Level of Service Definitions

A Free Flow Traffic
No Delays

B Reasonably Free Flow
No Delays

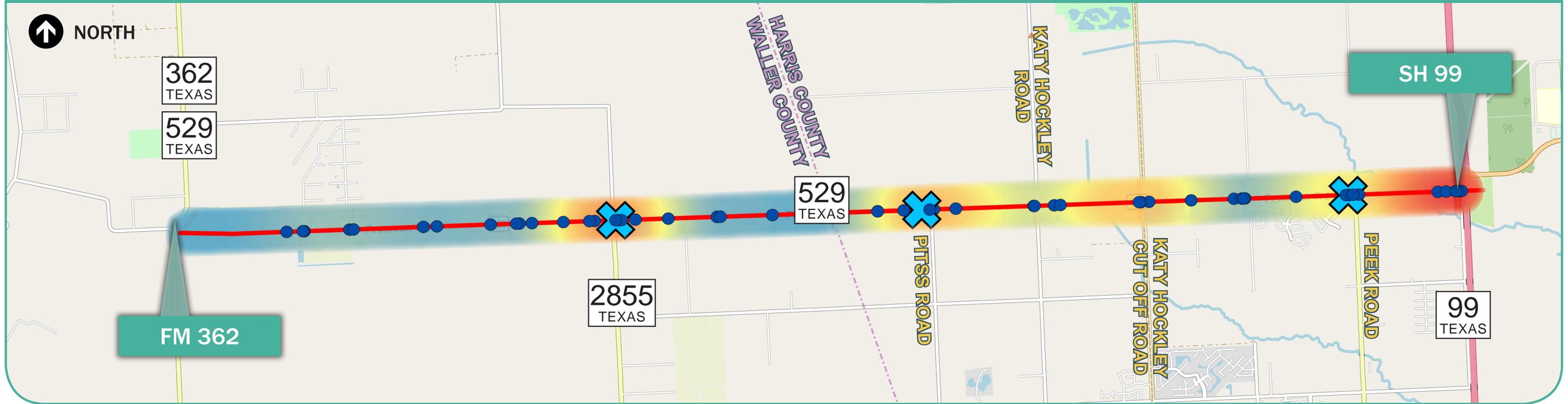
C Stable Flow
Minimal Delays

D Speeds Begin to Decline:
Minimal Delays

E Traffic at Capacity
Significant Delays

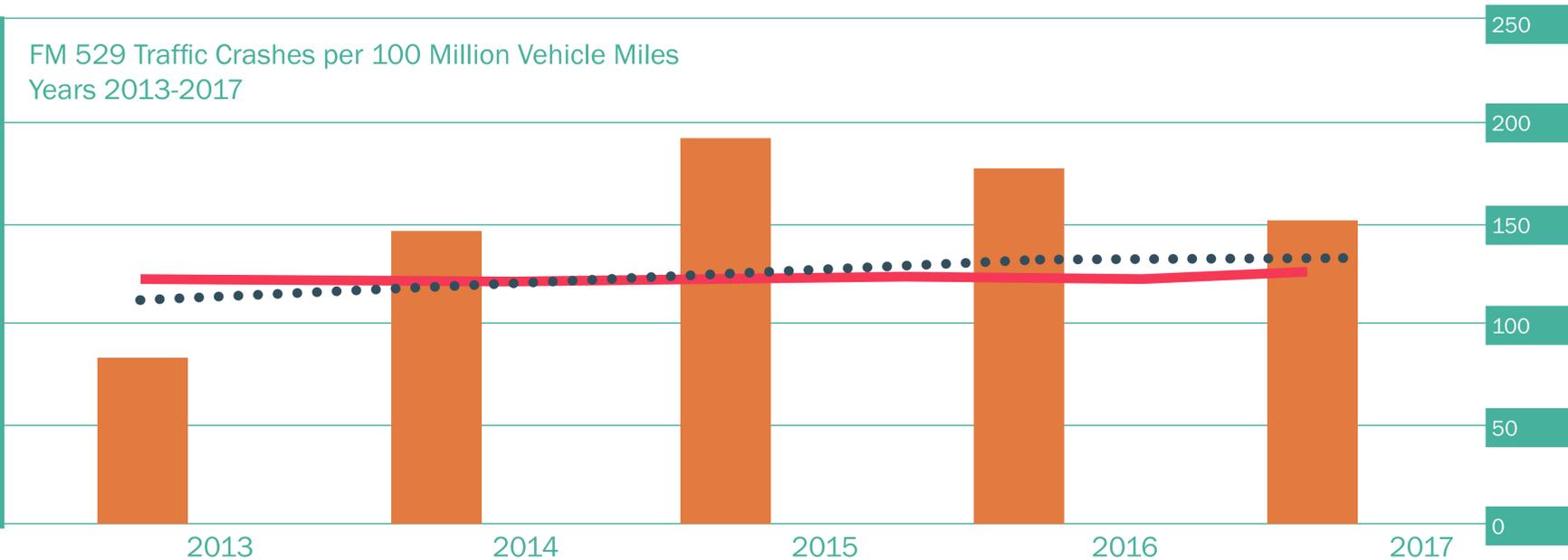
F Heaviest Congestion
Considerable Delays

Crash Severity and Density



Annual Crash Rates

FM 529 Traffic Crashes per 100 Million Vehicle Miles
Years 2013-2017

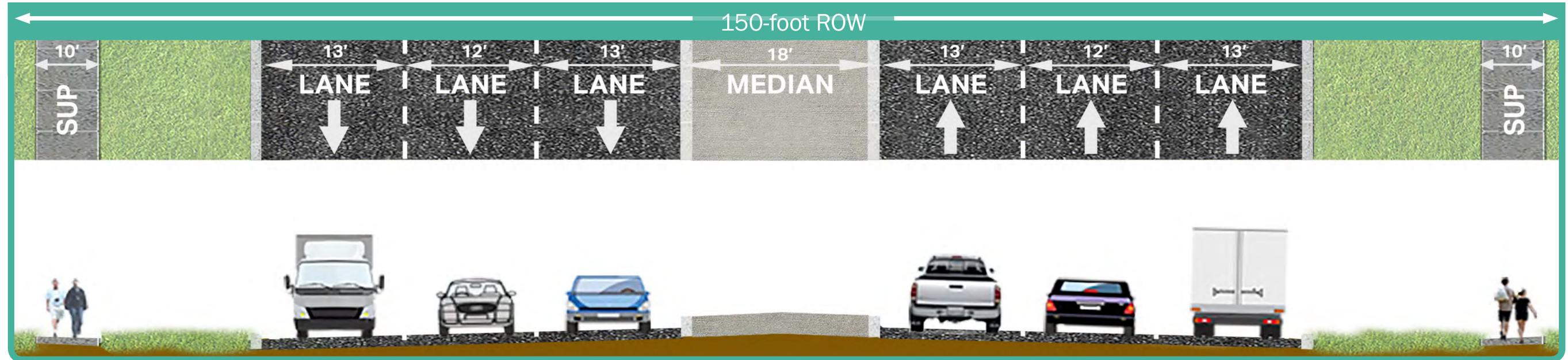


Legends

- | | |
|--|---|
| <p>Map Legend</p> <ul style="list-style-type: none"> ● Non-Fatal Crashes ✕ Fatal Crashes — FM 529 Centerline <p>Severity Density</p> <p>Value</p> <ul style="list-style-type: none"> High Low | <p>Chart Legend</p> <ul style="list-style-type: none"> ■ FM 529 Annual Crash Rate ●●● Annual Average State-wide Crash Rate — TxDOT Statewide Crash Rate Average |
|--|---|

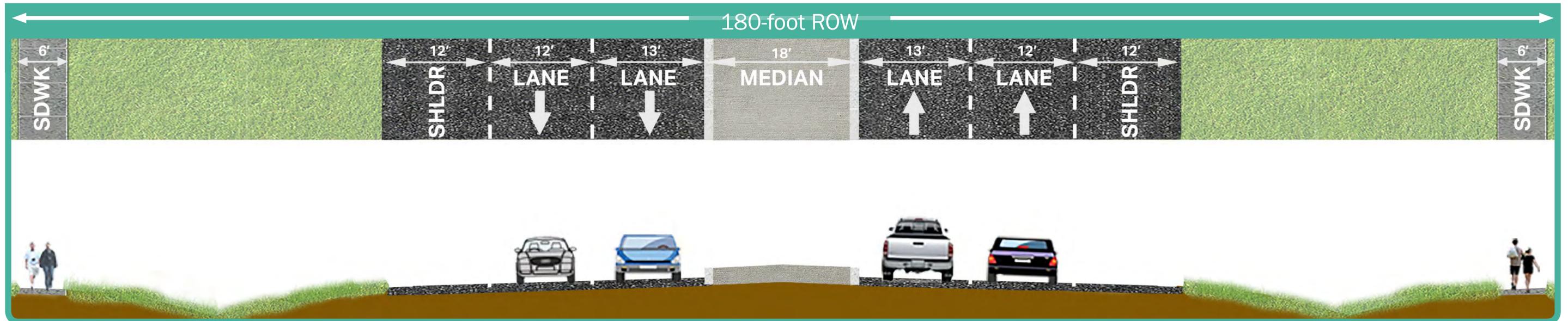
Source: Crash Record Information System, TxDOT 2013-2017

FM 529 Proposed Typical Sections



SH 99 (Grand Parkway) to Katy Hockley Cut Off Road

- Six travel lanes (three in each direction)
- 18-foot median with openings
- Closed drainage system (storm sewers)
- 10-foot shared-use path (SUP) in each direction
- Typical right-of-way width of 150 feet



Katy Hockley Cut Off Road to FM 362

- Four travel lanes (two in each direction); inside lane would be 13 feet
- 18-foot median with openings
- 12-foot outside shoulders
- Open ditches
- 6-foot sidewalks (SDWK) in each direction
- Shoulders can be utilized by bicycles
- Typical right-of-way width of 180 feet

Summary of Public Comments

Meeting Date: April 30, 2019

- 86 members of the public attended
- 57 comments received
- Majority supported improvements along FM 529

Address drainage issues

Improve roadway and intersections

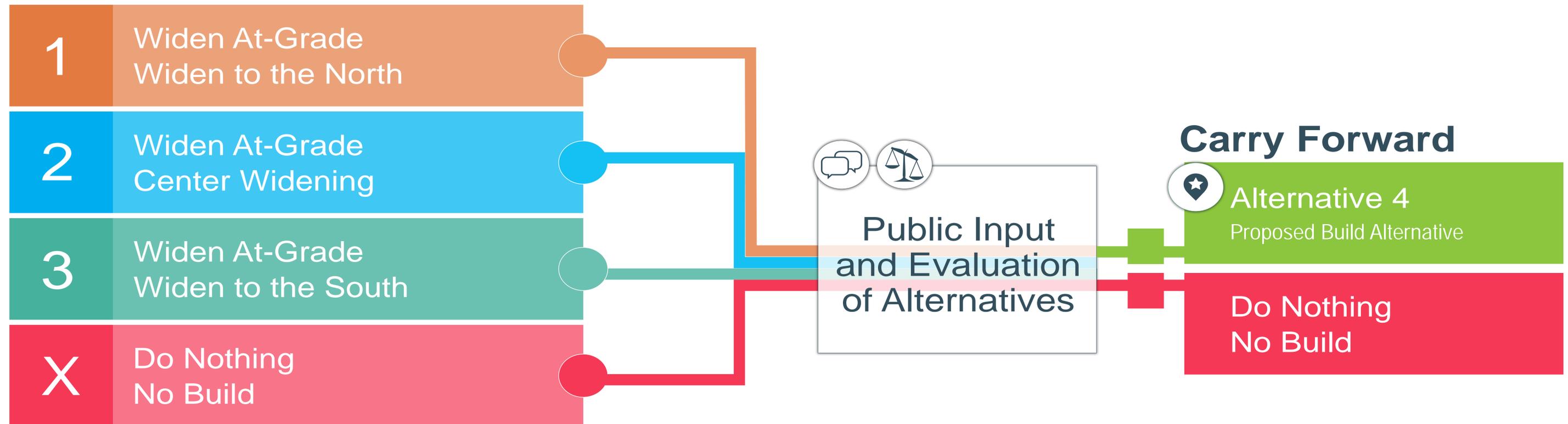
Improve safety for all users

Improve lighting

Reduce speeding



Alternatives Presented at Public Meeting #1



Alternative 4: Combination of Alternatives 1, 2, and 3 to minimize impacts to the natural and built environment



FM 529 Evaluation of Build Alternatives

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

Evaluation Criteria		Alternative 1	Alternative 2	Alternative 3	Alternative 4
		Widen to the North	Center Widening	Widen to the South	Proposed Build Alternative (Hybrid of Alternatives 1, 2 & 3)
	ROW Acreage of ROW required, in addition to the existing TxDOT ROW	88 ac Right-of-Way	87 ac Right-of-Way	87 ac Right-of-Way	81 ac Right-of-Way
	Utilities Linear feet of utilities impacted	3 Electr. Trans. Lines: 48,480 LF 1 Gas Pipeline: 22,145 LF	3 Electr. Trans. Lines: 48,480 LF 1 Gas Pipeline: 22,145 LF	3 Electr. Trans. Lines: 48,480 LF 1 Gas Pipeline: 22,145 LF	3 Electr. Trans. Lines: 48,575 LF 1 Gas pipeline: 22, 145 LF
	Count of major utility crossings	2 Trans. Towers 8 Elect. Trans. Lines	1 Trans. Tower 8 Elect. Trans. Lines	8 Elect. Trans. Lines 11 Gas Pipelines	8 Elect. Trans. Lines 11 Gas Pipelines
	Traffic Control / Constructability High/Neutral/Low traffic control/constructability impacts	Low	Medium	Low	Low
	Drainage Assessment High/Neutral/Low drainage impacts	Neutral	Neutral	Neutral	Neutral
	Waters of the United States, including Wetlands Linear feet of streams, creeks, bayous, etc., impacted	24,170 LF	31,770 LF	37,500 LF	30,220 LF
	Acreage of wetlands impacted (as mapped by NWI)	7 ac Right-of-Way	5 ac Right-of-Way	4 ac Right-of-Way	4 ac Right-of-Way
	Floodplains Acreage of 100-yr floodplains impacted	56 ac Right-of-Way	59 ac Right-of-Way	62 ac Right-of-Way	60 ac Right-of-Way
	Floodway Acreage of floodways impacted	65 ac Right-of-Way	60 ac Right-of-Way	54 ac Right-of-Way	52 ac Right-of-Way
	Hazardous Materials Count of potential hazmat sites	7	7	7	7
	Number of Structures Displacement Count of residential displacements	1	0	3	0
	Count of business displacements	0	3	7	0
	Count of other displacements	3	3	3	2
	Cultural Resources Acreage of surface survey recommended	9 ac Proposed Right-of-Way	12 ac Proposed Right-of-Way	16 ac Proposed Right-of-Way	13 ac Proposed Right-of-Way
	Count of National Register of Historic Places sites impacted	0	0	0	0
	Environmental Justice Communities Count of Minority Census Blocks impacted	3	7	4	7





FM 529 Public Meeting Comments

All Comments must be post marked by June 24, 2020

 Comments can be provided:

Comment Card

Download the comment card from the website



By Email

Submit to:
[hou-piowebmail@txdot.gov](mailto:houstonpiowebmail@txdot.gov)



By Mail

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



Online

<https://www.txdot.gov/inside-txdot/projects/studies/houston/fm529-sh99-to-fm362.html>

