



US 380 FEASIBILITY STUDY

Denton County

CSJ(s): 0135-10-061, 0135-10-062

Public Meeting(s): January 15 & 22, 2019





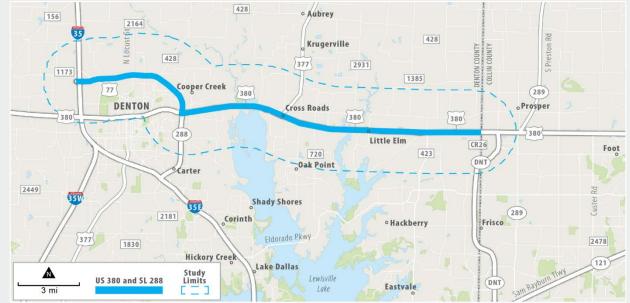
WELCOME

US 380 Denton County Feasibility Study

DALLAS DISTRICT PUBLIC MEETING

January 15 & 22, 2019 6:00 P.M. - 8:00 P.M.

Presentation at 7:00 P.M.







DENTON COUNTY POPULATION

136%

PROJECTED INCREASE IN DENTON COUNTY POPULATION GROWTH FROM 2018 – 2045*

23.5%

INCREASE IN DENTON COUNTY POPULATION FROM 2010 – 2017

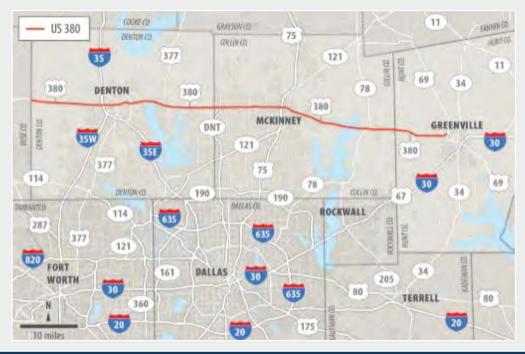
DENTON ULATION - 2017

*Assume the 2000-2010 Migration scenario for 2014 Texas Population Projections





EXISTING CONDITIONS



4-6 LANE ARTERIAL

SIGNIFICANT CONGESTION DURING PEAK HOURS

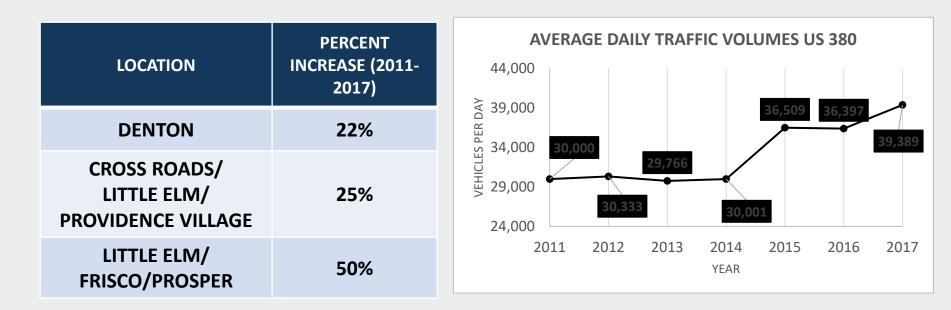
RATED IN ENGINEERING TERMS AS AN "F" LEVEL OF SERVICE (THE WORST)

ROW WIDTH VARIES (120'-180')





TRAFFIC INCREASES

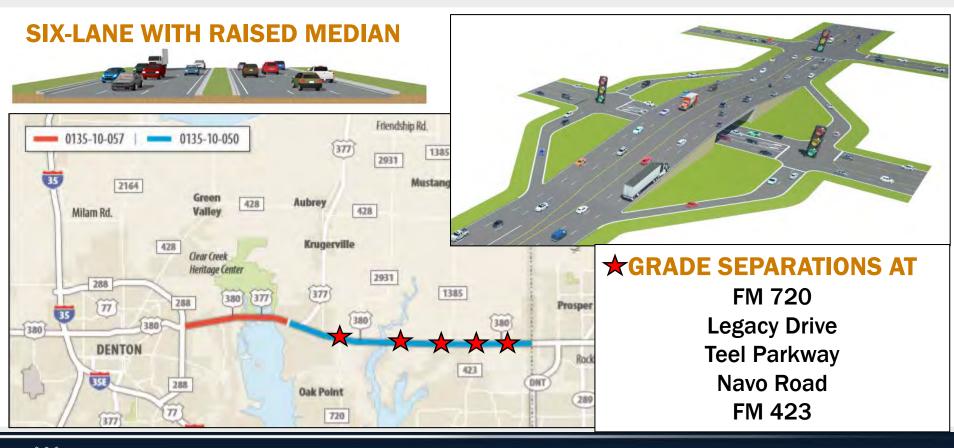


TRAFFIC VOLUMES ALONG US 380 IN DENTON COUNTY, EAST OF LOOP 288, INCREASED OVER 30% BETWEEN 2011 AND 2017.





PLANNED IMPROVEMENTS: US 380 DENTON WIDEN & GRADE SEPARATIONS (In-Progress)

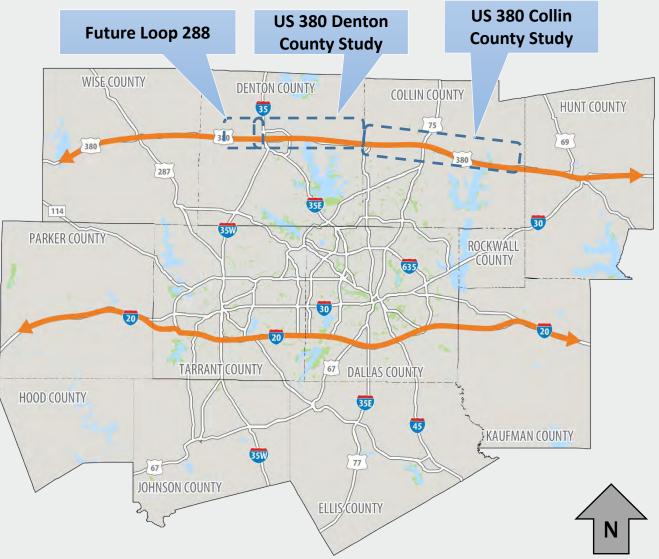




US 380 provides vital connectivity

between Collin and Denton counties. Similar to **I-20** for Dallas and Tarrant counties.

Three studies working together.







PURPOSE OF FEASIBILITY STUDY

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Analyze potential transportation options, including improving the existing alignment or utilizing new alignments.

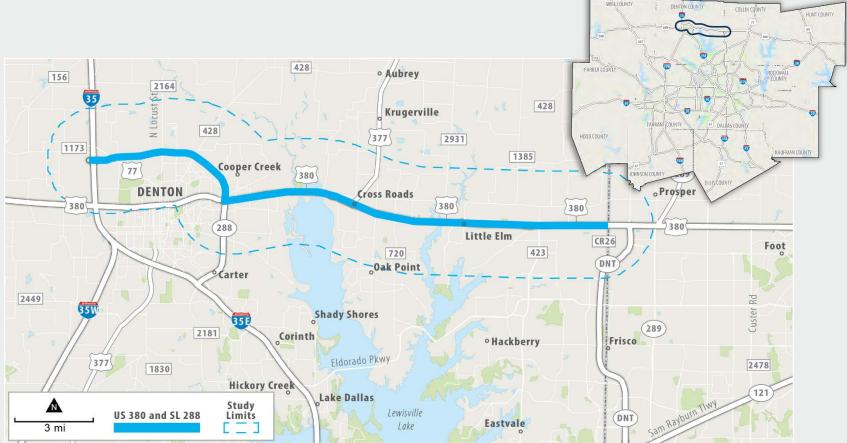
- Helps determine if the project should move on to more advanced phases of project development.
 - Do nothing (No Build) is a possible outcome.
- Identifies high level or critical elements of engineering, impacts to stakeholders and the public, and economic feasibility of potential new roadways or improvements to existing roadways.
- Provide a basis for corridor preservation

Study is not intended to result in detailed design, environmental analysis, or cost estimates.





STUDY AREA



Limits: I-35 to west of CR 26 (Collin County Line) | Total Length: 21 miles





GOALS AND OBJECTIVES

Regional



Provide regional connectivity by providing an East-West connection serving Collin and Denton Counties.

Local



Provide reliable travel time and minimize congestion Enhance driver expectations Minimize human and environmental impacts

Provide roadway network reliability





EVALUATE MODES OF TRANSPORTATION TO RELIEVE CONGESTION

BIKE/PEDESTRIAN



Cannot relieve congestion alone, but facilities would be included in future plans

TRANSIT



Cannot solely relieve congestion as it only serves a small portion of the trips

ROADWAY



Variety of options ranging from no new improvements to grade separations to controlled access highway alignments

All modes are critical to move goods, improve mobility, and provide access throughout the area



TRAVEL DEMAND MODEL EVALUATIONS

2017 EXISTING APPROX. AVG DAILY TRAFFIC VOLUME 40,300 vehicles per day

2045 AVG. TRAFFIC DEMAND VOLUME FORECAST 112,500 vehicles per day

SIGNIFICANT DEMAND FOR THIS CORRIDOR

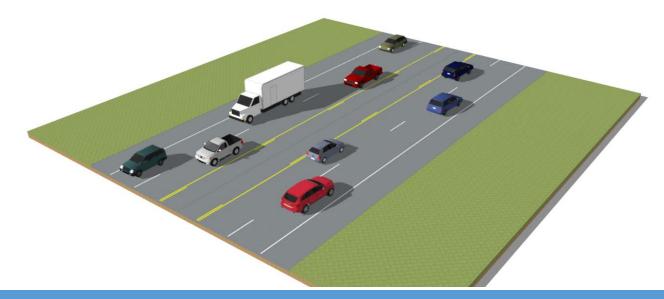
2017 Data - Obtained from TxDOT AADT Station Flag 61H4 for the year 2017

2045 Estimate Data – Travel Demand model scenarios which incorporated a controlled access highway down the existing alignment of US





FOUR-LANE WITH TWO-WAY LEFT TURN LANE (EXISTING)



- Within existing right-of-way
- Continuous access
- 4-6 Lanes Insufficient capacity for existing traffic
- Rated in engineering terms as an "F" level of service (the worst)





SIX-LANE WITH RAISED MEDIAN & GRADE SEPARATIONS (IN-PROGRESS)



Key Intersections: FM 720 Legacy Drive Teel Parkway Navo Road

FM 423

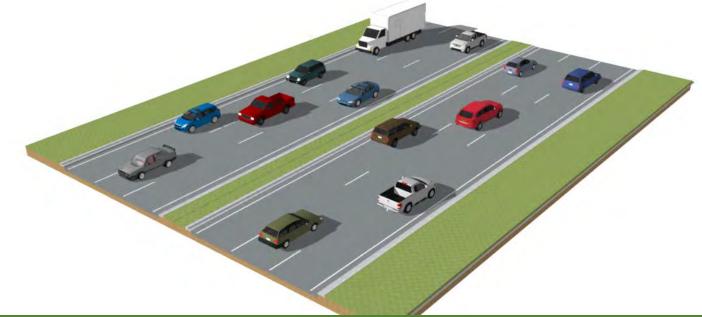
- Some additional right-of-way
- Enhanced safety/less access
- 6 Lanes
- Improves level of service at key intersections
- Does not accommodate 2045 travel demand volume forecast





SIX-LANE WITH RAISED MEDIAN

(URBAN ARTERIAL)

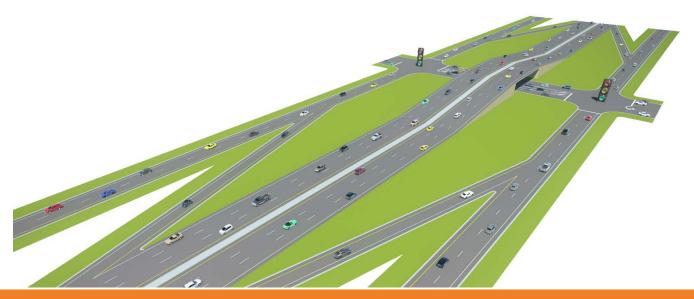


- Would be in addition to the In-progress project
- 180' right-of-way footprint
- 6 Lanes
- Does not accommodate 2045 travel demand volume forecast





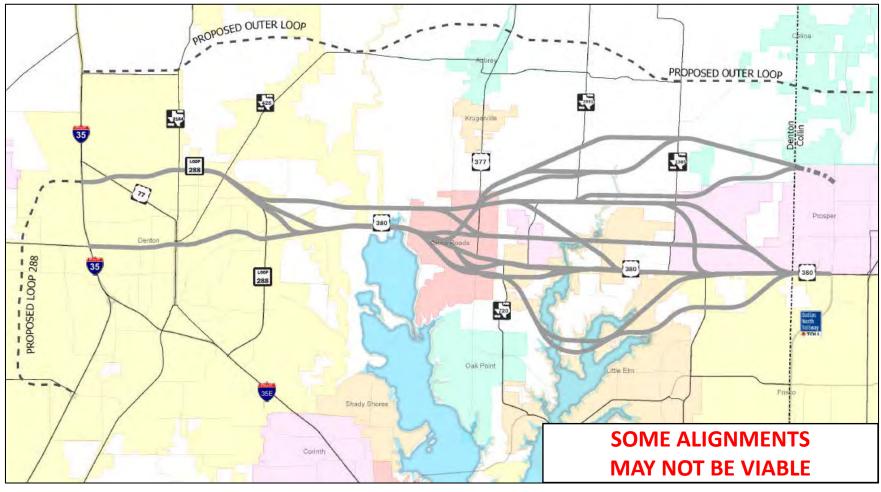
CONTROLLED ACCESS HIGHWAY



- 350'-400' right-of-way footprint
- Enhanced safety
- Limited access
- 6-8 Lanes mainlanes and 4-6 lanes of frontage road
- Accommodates 2045 travel demand volume forecast with acceptable level of service



INITIAL ALTERNATIVE ALIGNMENTS



Initial Alternative Alignment

--- Proposed Facility By Others



KEY FACTORS FOR CONSIDERATION



Engineering/Mobility



Safety



Traffic



Multimodal



Existing & **Planned Utilities**



Constructability



Planned Improvements



Environmental





Community Elements (Parks, Schools, etc.)

Residential and Commercial



Stakeholder & Public Input



Hazardous Materials



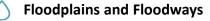
Endangered Species Habitat



Noise



USACE Protected Lands (Wetlands, WOTUS, etc.)





Construction Costs



Connectivity

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-1

Existing and Planned Land Use



WE NEED YOUR INPUT



FILL OUT A SURVEY AND COMMENT FORM

PROVIDE VERBAL COMMENT TO COURT REPORTER

SURVEY: ONLINE OR PAPER COPY

Go online to **www.drive380.com** & click on "Denton County Feasibility Study"

Surveys and comment forms must be submitted by

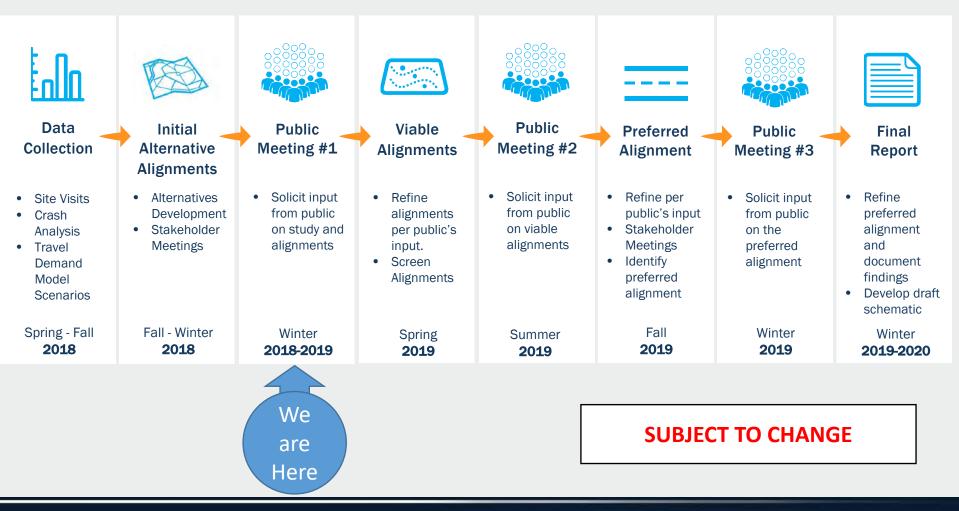
February 6, 2019

to be included in study documentation





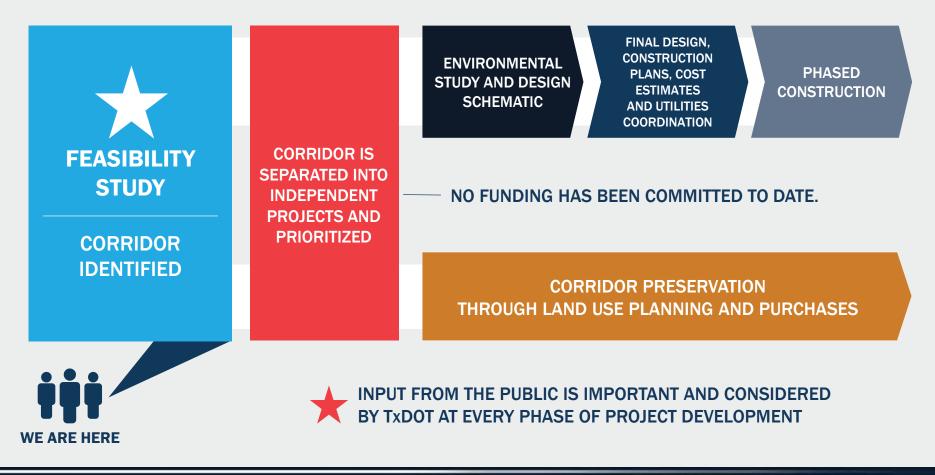
NEXT STEPS





TXDOT HAS DONE ANALYSIS OF THE NEED AND POTENTIAL SOLUTIONS

Planning the next steps for the US 380 corridor will take time. That is why it is so important work begins NOW to plan for the future









STUDY CONTACTS

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THANK YOU

For taking the time to provide input and help shape the future of US 380 and Denton County.

Visit **Drive380.com** and click on "DENTON COUNTY US 380 FEASIBILITY STUDY" for study information and updates.

