

# TEXAS DEPARTMENT OF TRANSPORTATION





December 12, 2017

## Feasibility Study Stakeholder Engagement

#### **IDENTIFY THE NEEDS AND GOALS FOR IMPROVEMENTS**

Stakeholder Interviews Fall 2016



Letters to Elected Officials Fall 2016



Agency Coordination Meeting #1 11/17/2016



Open House #1 12/8/2016



eNewsletter Spring 2017

San Antonio Castle Hills VIA

SA Int'l Airport Alamo Heights ISD

North East ISD North Star Mall

Park North Shopping Center Crownhill Park Neighborhood ~ 60 letters to Public and Elected Officials. Alamo Area MPO San Antonio VIA SA Int'I Airport Alamo Heights ISD

North East ISD

Attended by 76 public 5 elected officials

**EVALUATE AND REFINE POTENTIAL SOLUTIONS** 

Emailed to approx. 128 stakeholders



#### We are Here

Stakeholder Briefings Winter 2017

Shearer Hills/Ridgeview Neighborhood Assoc. Castle Hills City Council Senator Menendez Representative Bernal Councilman Treviño Open House #2 10/17/2017

Attended by 97 public 2 elected officials Agency Coordination Meeting #2 9/20/2017

Alamo Area MPO San Antonio Castle Hills VIA SA Int'l Airport Alamo Heights ISD North East ISD Letters to Elected Officials Fall 2017

~ 60 letters to Public and Elected Officials. eNewsletter Fall 2017

Emailed to approx. 145 stakeholders

Stakeholder
Interviews
Spring/
Summer
2017

San Antonio
Castle Hills
VIA
SA Int'l Airport
North Star Mall
Park North Shopping
Center
Crownhill Park
Neighborhood

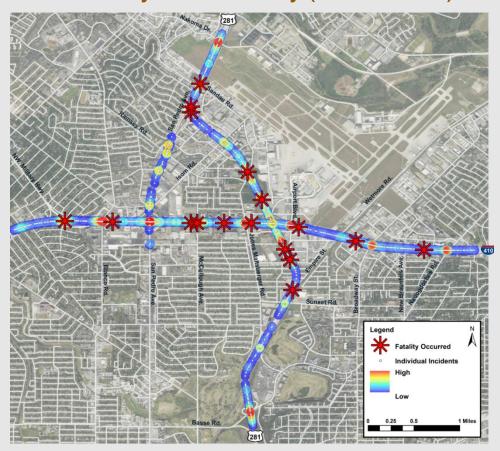
# **Project Development & Future Public Involvement**





### **Safety**

#### **Crash Analysis Summary (2011-2015)**



Average of 2.8 crashes/day 3.4 fatal crashes/year

Source: TxDOT 2016

#### Eastbound I-410 at Ramp from San Pedro Ave (PM)



#### Westbound I-410 at US 281 DC Entrance Ramp (PM)



Source: Texas A&M Transportation Institute, September 2016



### **Open House #1: Identify Needs & Possible Solutions**

#### WHAT WE HEARD

### Traffic Operations

- Merging and Weaving
- Bottlenecks
- Ramps that go from 2 to 1 lane
- Exit/entrance ramps on I-410
- Signal timing & queueing

#### Multimodal

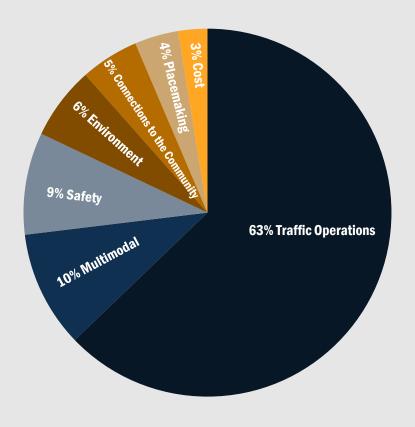
Options for all users (transit/bicycle/pedestrian)

#### Safety

Operational challenges cause safety issues

#### Environment

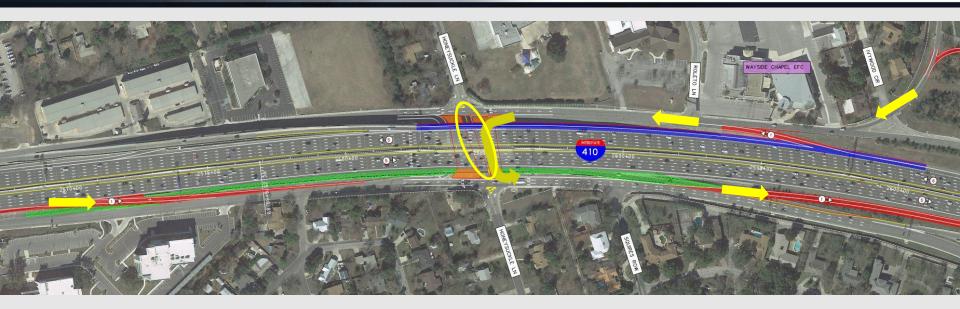
Air Quality & Traffic Noise



# **Problem:**

Eastbound I-410 merge/weave between NW Military Hwy entrance ramp and San Pedro Ave. exit ramp

# **Solution: Eastbound Ramp Modifications**

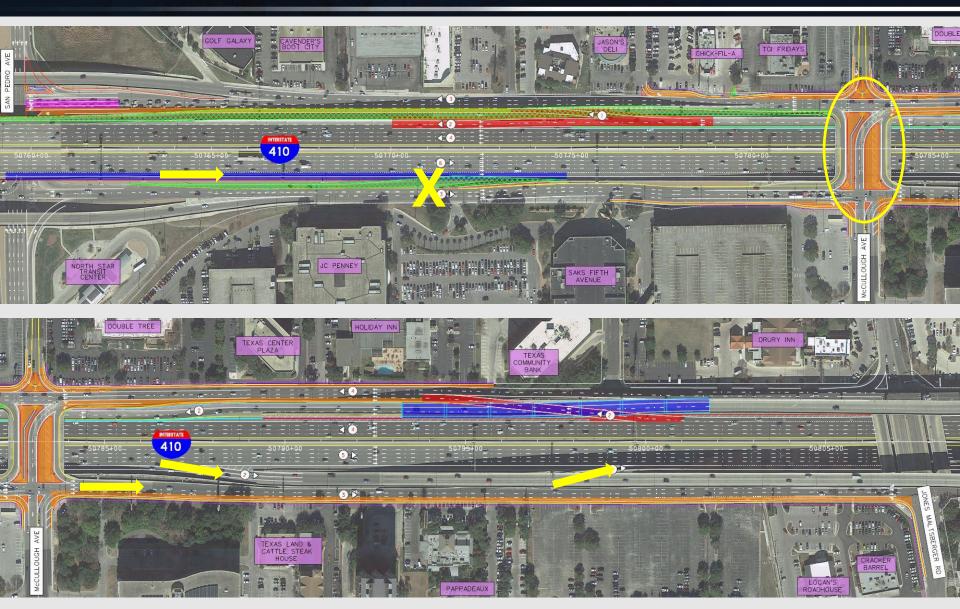




# **Problem:**

Eastbound I-410 merge/weave between San Pedro Ave. entrance ramp and US 281 Direct Connectors

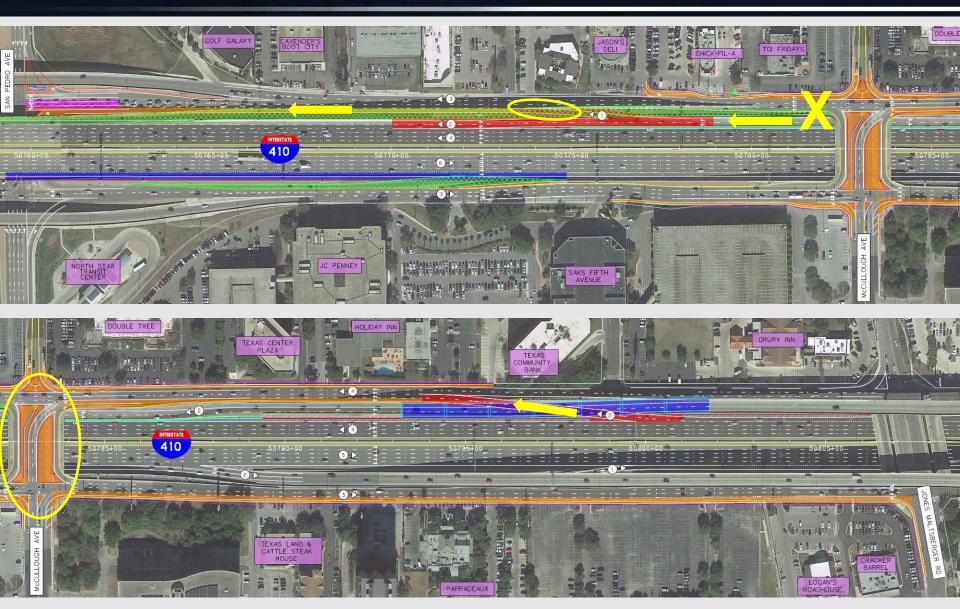
# **Solution: Eastbound Ramp Modifications**



# **Problem:**

Westbound I-410 merge/weave between US 281 Direct Connectors and San Pedro Ave. exit ramp

# **Solution: Westbound Ramp Modifications**



## **Anticipated Benefits: Reduced Crash Rates**

#### I-410 Annual Crash Rates\*

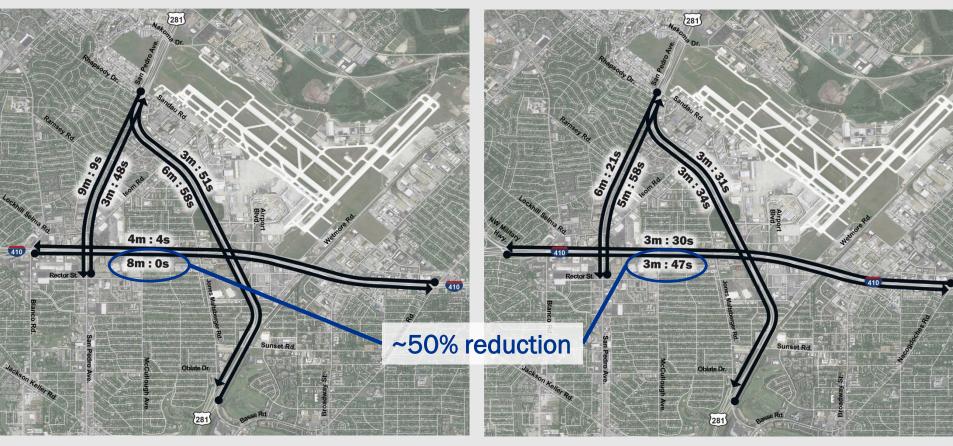
Section	Existing	Technically Preferred Concept**	Change
Mainlanes	185	168	9.2% reduction
Frontage Roads	480	477	0.6% reduction

<sup>\*</sup> Crash rates are measured as the number of crashes per 100 million vehicle miles of travel.

<sup>\*\*</sup> The crash rates for the Technically Preferred Concept are based on the Highway Safety Manual's predictive crash rate methodology.

## **Anticipated Benefits: Shorter Travel Times**

## **PM Peak Hour - Through Traffic Comparison (2020)**



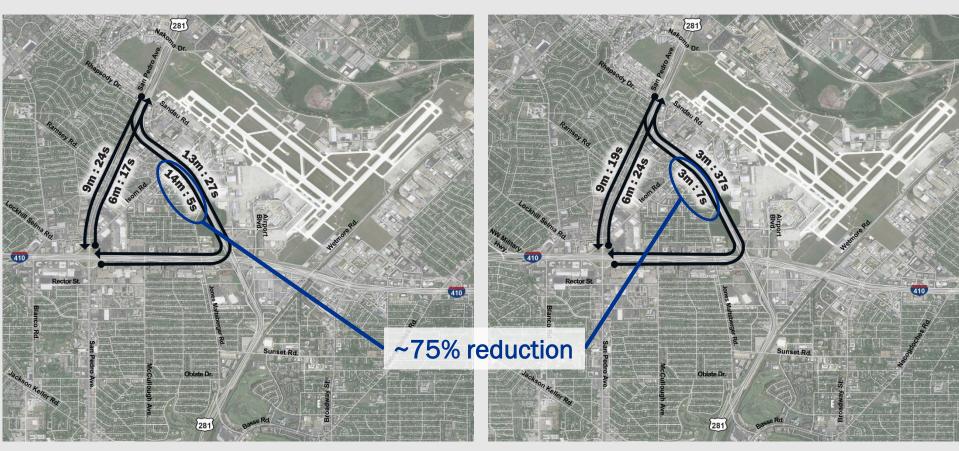
2020 Do Nothing

**2020 Technically Preferred Concept** 

Source: Study Team 2017

#### **Shorter Travel Times**

## PM Peak Hour - Alternate Routes Comparison (2020)



2020 Do Nothing

**2020 Technically Preferred Concept** 

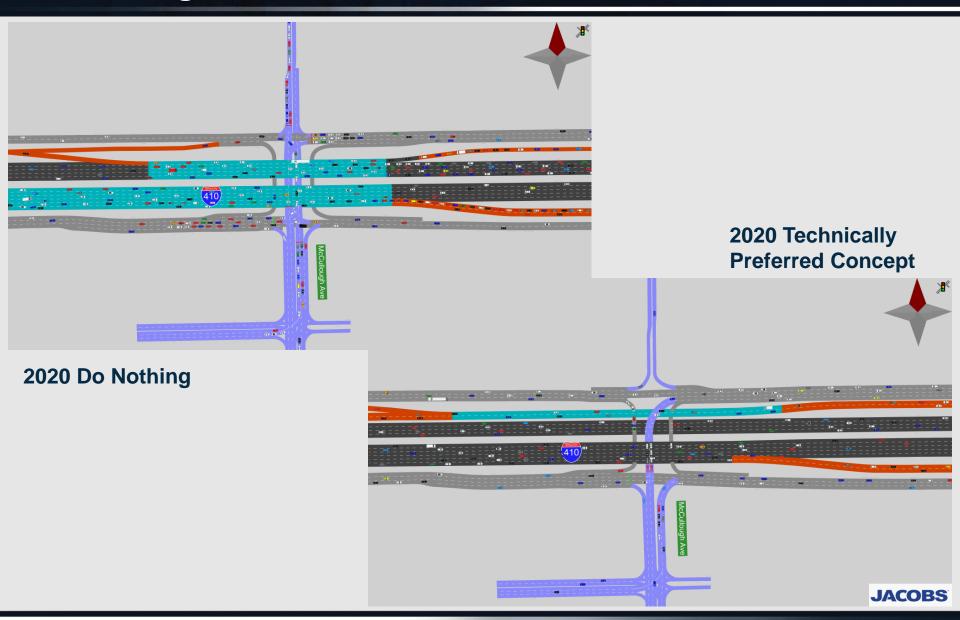
Source: Study Team 2017

# **Anticipated Benefits: Consistent Speed**

# I-410 Speed Comparison (2020)

Direction	Se	Segment		Do Nothing (mph)		Technically Preferred Concept (mph)	
	From	То	AM	PM	AM	PM	
Eastbound	Honeysuckle Lane	US 281 exit	31	14	64	56	
Eastbound	US 281 exit	Nacogdoches Rd	65	65	63	58	
Westbound	Nacogdoches Road	Entrance from US 281	62	55	62	60	
Westbound	Entrance from US 281	Honeysuckle Lane	58	58	59	57	

# McCullough Avenue at I-410



# **Proposed Honeysuckle Modification**





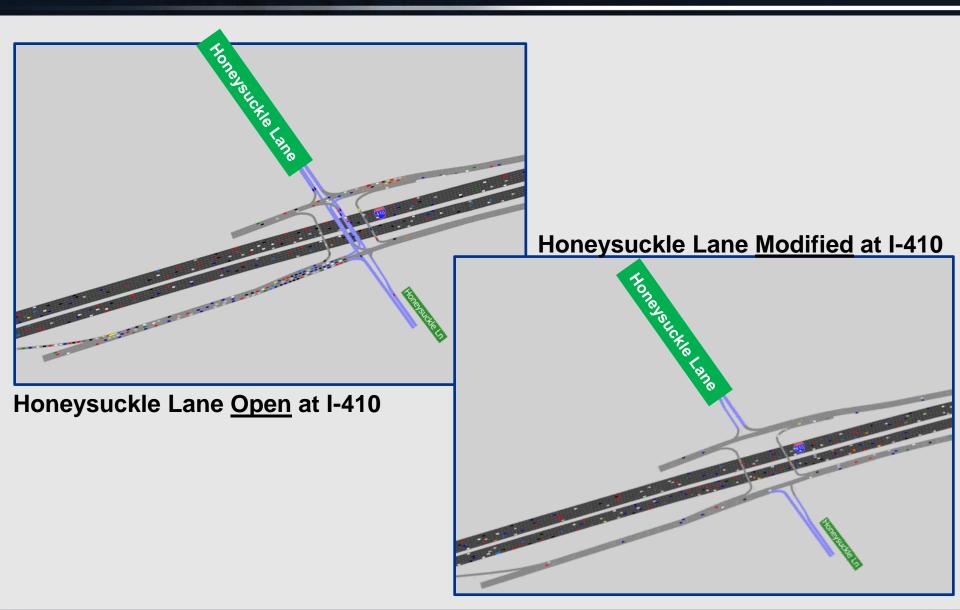
# EMERGENCY Vehicles Only



**Folding Bollards** 



# **Honeysuckle Lane at I-410**



#### **Alternate Routes across I-410**

# Honeysuckle Lane Area

		TRAVEL TIMES	
From	То	Existing	Proposed
South of I-410	North of I-410	3 min	4 min
North of I-410	South of I-410	3 min	4 min

# McCullough Avenue Area

		TRAVEL TIMES	
From	То	Existing	Proposed
South of I-410	North of I-410	5 min	5 min
North of I-410	South of I-410	5 min	5 min

## Adjourn

# THANK YOU FOR YOUR PARTICIPATION IN THIS REGIONALLY IMPORTANT PROJECT.

# Please send your comments to: 410-281study@jacobs.com

Richard De La Cruz – TxDOT Project Manager Richard.DeLaCruz@txdot.gov (210) 615-6434

Jeremy Wyndham – Study Team Project Manager Jeremy. Wyndham@jacobs.com (210) 403-5570

Web Page -www.txdot.gov, keyword "I-410 US281"