



**WELCOME**  
**Horizon Boulevard (FM 1281)**  
**Corridor Master Plan Study**  
**From Alameda Avenue (SH 20)**  
**To Ascension Street**

NOTICE

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 Dec. 09, 2019, and executed by FHWA and TxDOT.

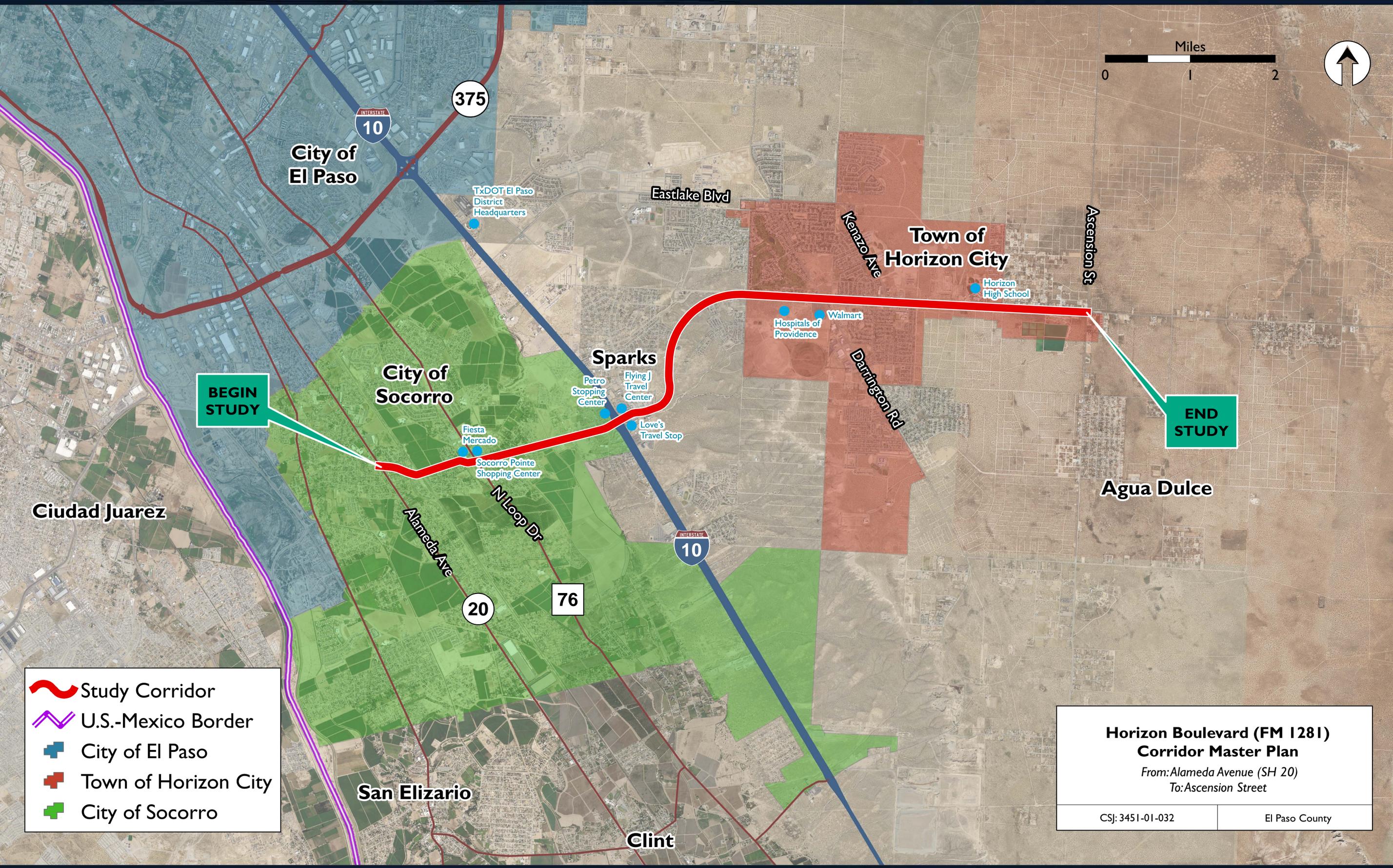
AVISO

La revisión ambiental, consultas y otras acciones requeridas por las leyes ambientales federales aplicables para este proyecto, han sido, llevado a cabo por TxDOT en virtud a 23 U.S.C. 327 y un Memorando de Entendimiento fechado 9 de diciembre del 2019, y ejecutado por la FHWA y el TxDOT.

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.

La revisión ambiental, consultas y otras acciones requeridas por las leyes ambientales federales aplicables para este proyecto, están siendo o han sido realizadas por TxDOT de conformidad con la Reglamentación 23, Sección 327 del Código de Estados Unidos y un Memorando de Entendimiento con fecha del 9 de diciembre de 2019, ejecutado por la FHWA (Administración Federal de Carreteras) y TxDOT.

# STUDY LOCATION



**BEGIN STUDY**

**END STUDY**

- Study Corridor
- U.S.-Mexico Border
- City of El Paso
- Town of Horizon City
- City of Socorro

**Horizon Boulevard (FM 1281)  
Corridor Master Plan**  
From: Alameda Avenue (SH 20)  
To: Ascension Street

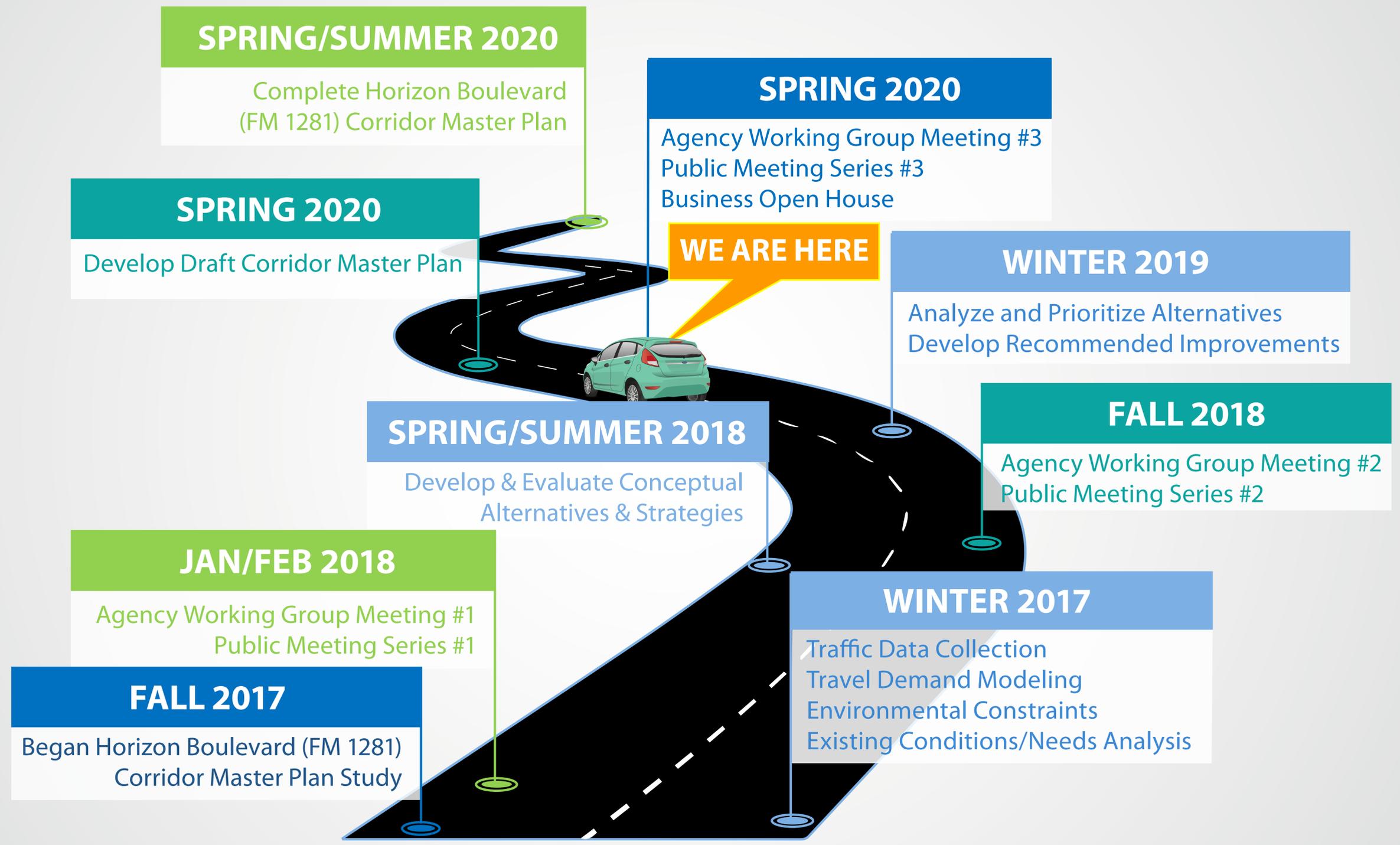
CSJ: 3451-01-032      El Paso County

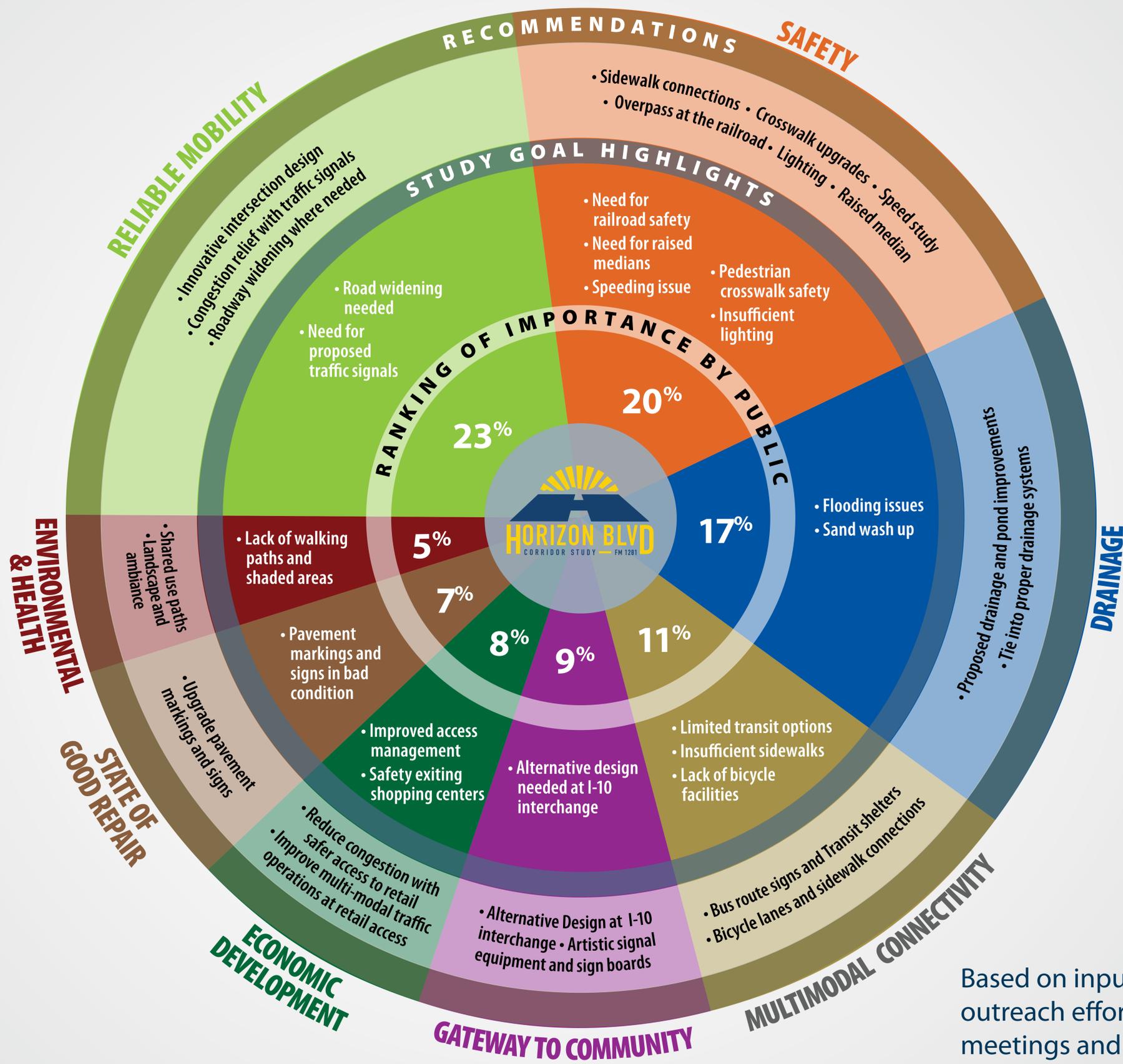
# HORIZON BLVD (FM 1281)

## CORRIDOR MASTER PLAN PURPOSE

The Corridor Master Plan defines transportation challenges and opportunities along Horizon Boulevard (FM 1281) from Alameda Avenue (SH20) to Ascension Street, and:

- Documents the community's future vision
- Includes data collection, public outreach, analysis of needs, and identification of potential projects
- Provides a set of recommended projects for short-, mid-, and long-term implementation





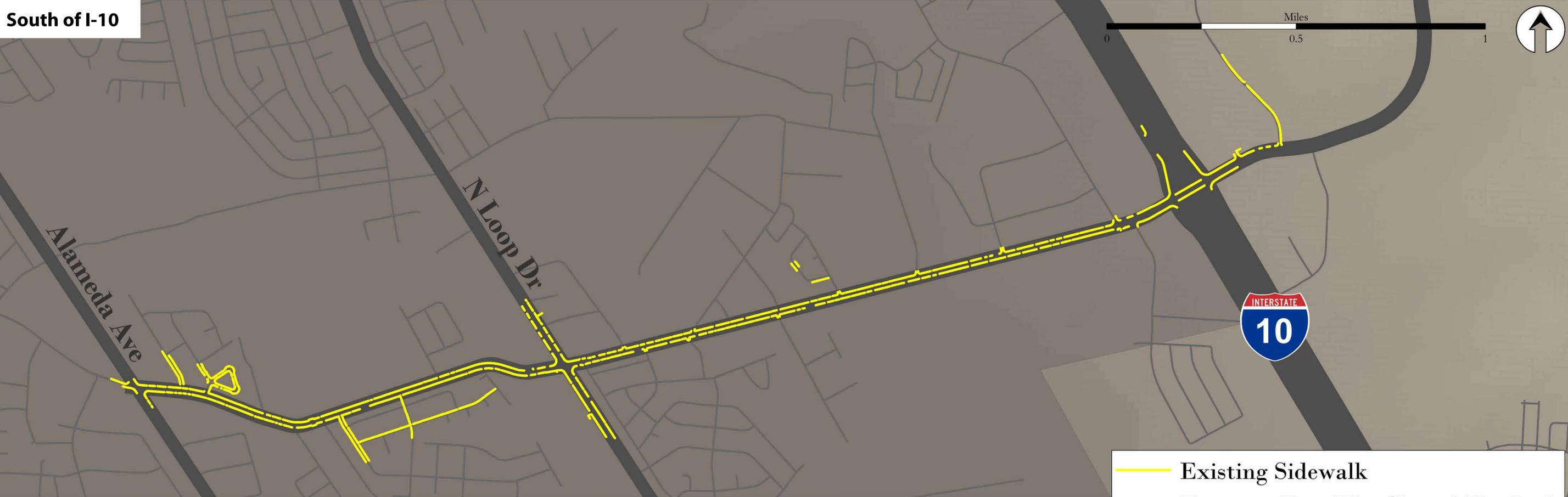
Based on input from public outreach efforts including public meetings and stakeholder outreach

# SUMMARY OF EVALUATION CRITERIA

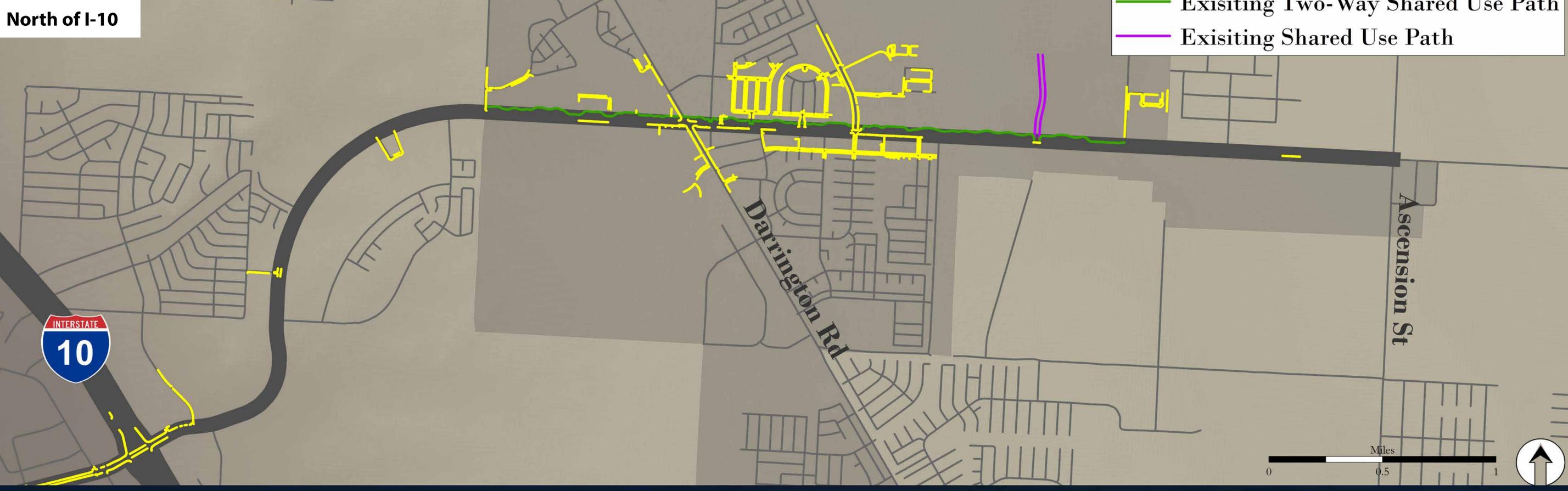
	Criteria	Score*	Description
*Based on Stakeholder Input	Reliable Mobility	13.5	Considerations for congested road segments and intersections.
	Safety	11.8	Analysis of Crash Record Information System data and available crash modification factors were used to assess safety performance.
	Drainage	10.0	Evaluation of the general effect of concepts on flooding in any location.
	Multimodal Connectivity	6.5	Evaluation of how a concept supports walking, biking, and transit use.
	Gateway to Community	5.3	The ability of a concept to serve as an effective gateway to the community.
	Economic Development	4.7	Support for access to economic activities and freight movement.
	State of Good Repair	4.1	Concepts contribution through either involving road reconstruction or alleviating some of the pavement loading issues.
	Health	2.9	Considerations for the personal health and air quality benefits.
*Based on Engineering & Cost Considerations	ROW	14.7	Applies most significantly to the concepts of wider cross-sections and for extensive intersection treatments.
	Cost	11.8	Relative cost benefits of concepts as compared to each other.
	Study Corridor Context	8.8	Accounts for the geographic context, ranging from a single intersection to the entire corridor, but also reviews the conceptual context of a concept's impact on traffic flows for all transportation modes.
	Identified Major Intersection	5.9	An additional weighting factor for concepts which directly affect any of the fifteen intersections which were identified as having a major impact on the corridor.
	Total	100	

# EXISTING MULTI-MODAL INFRASTRUCTURE

## South of I-10

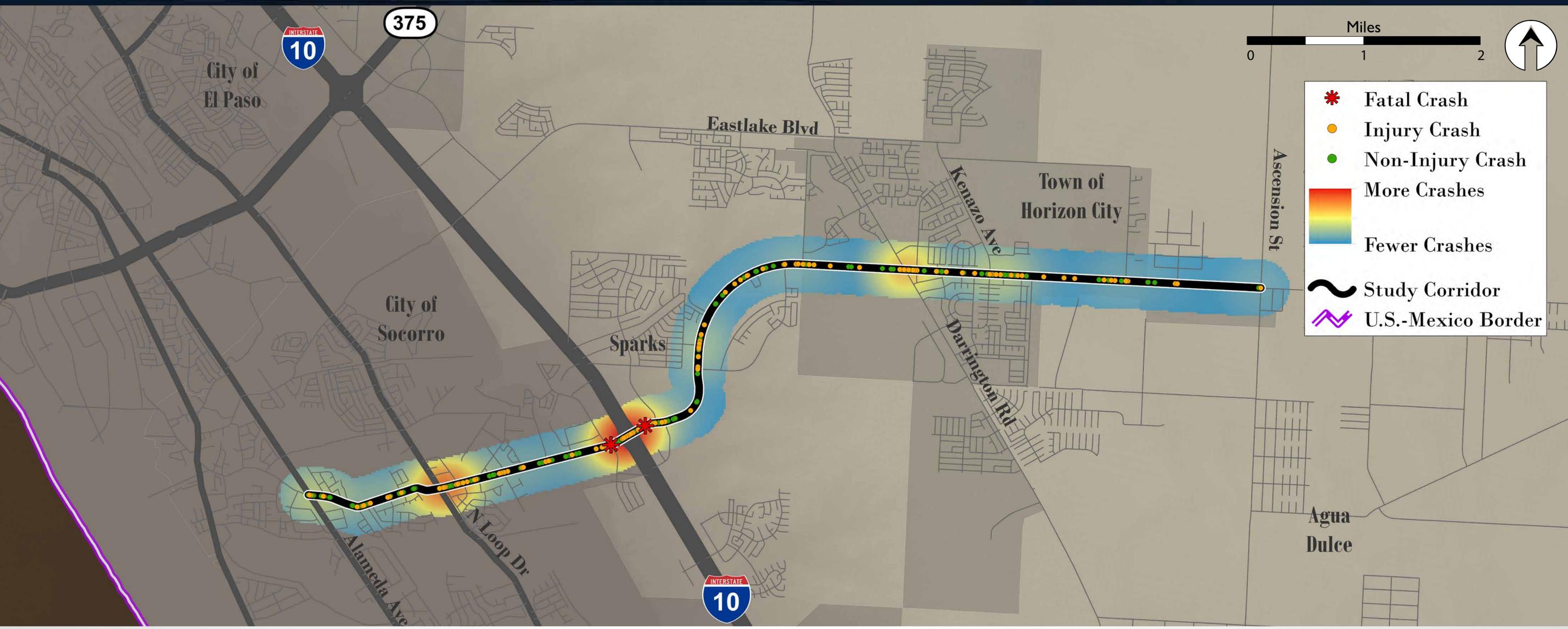


## North of I-10

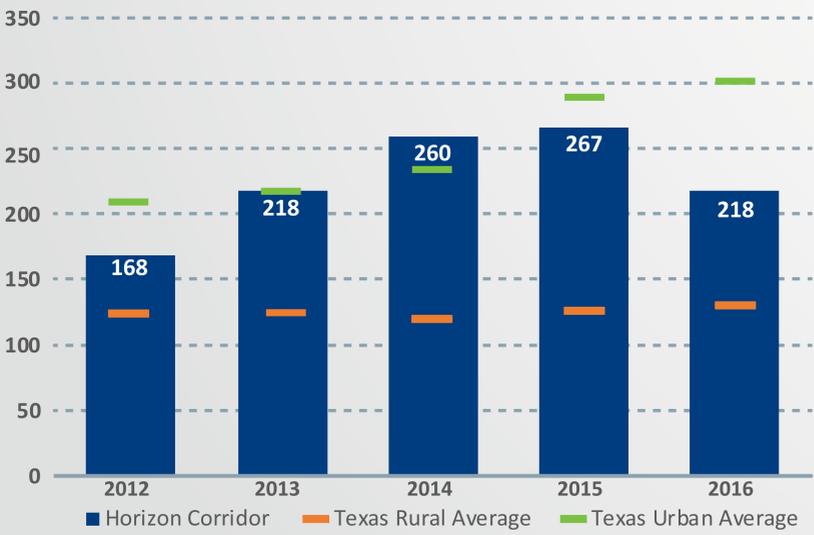


- Existing Sidewalk
- Existing Two-Way Shared Use Path
- Existing Shared Use Path

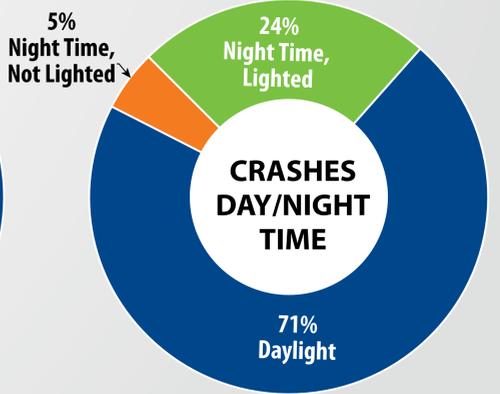
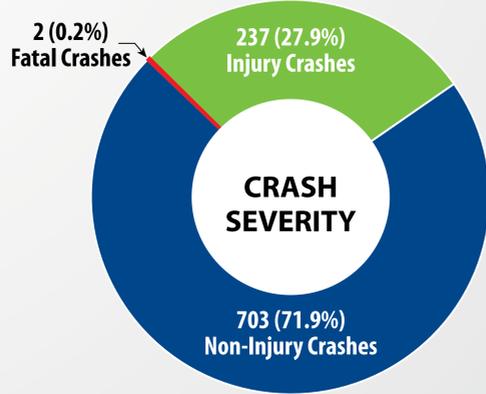
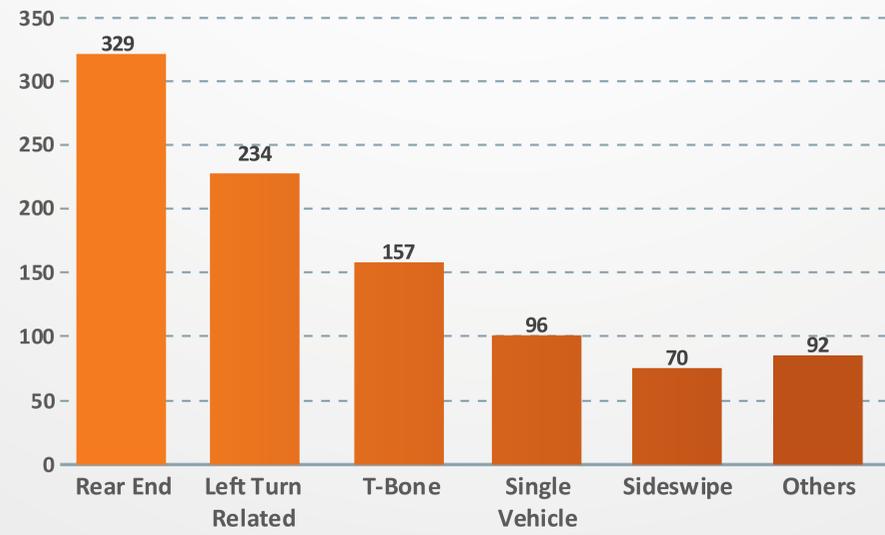
# CRASH ANALYSIS SUMMARY (2012 - 2016)



**CRASH RATES (TRAFFIC CRASHES PER 100 MILLION VEHICLE MILES)**



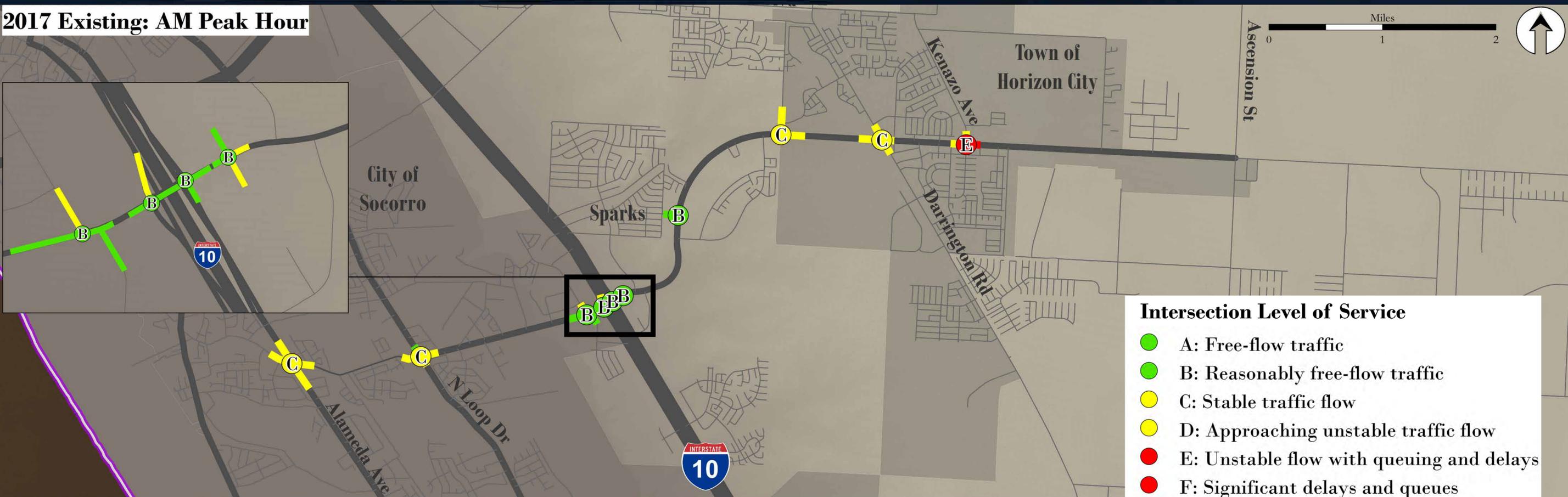
**TYPES OF CRASHES**



Source: CDM Smith using TxDOT 2012 to 2016 Crash Records Information System data

# TRAFFIC CONDITIONS: EXISTING (2017)

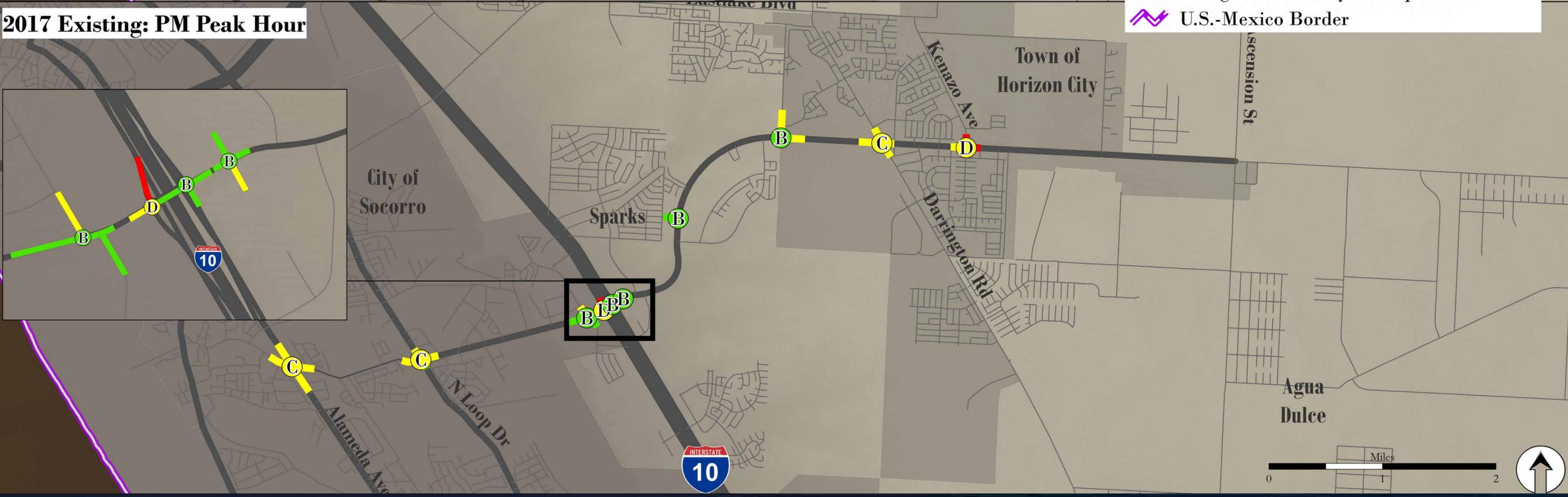
2017 Existing: AM Peak Hour

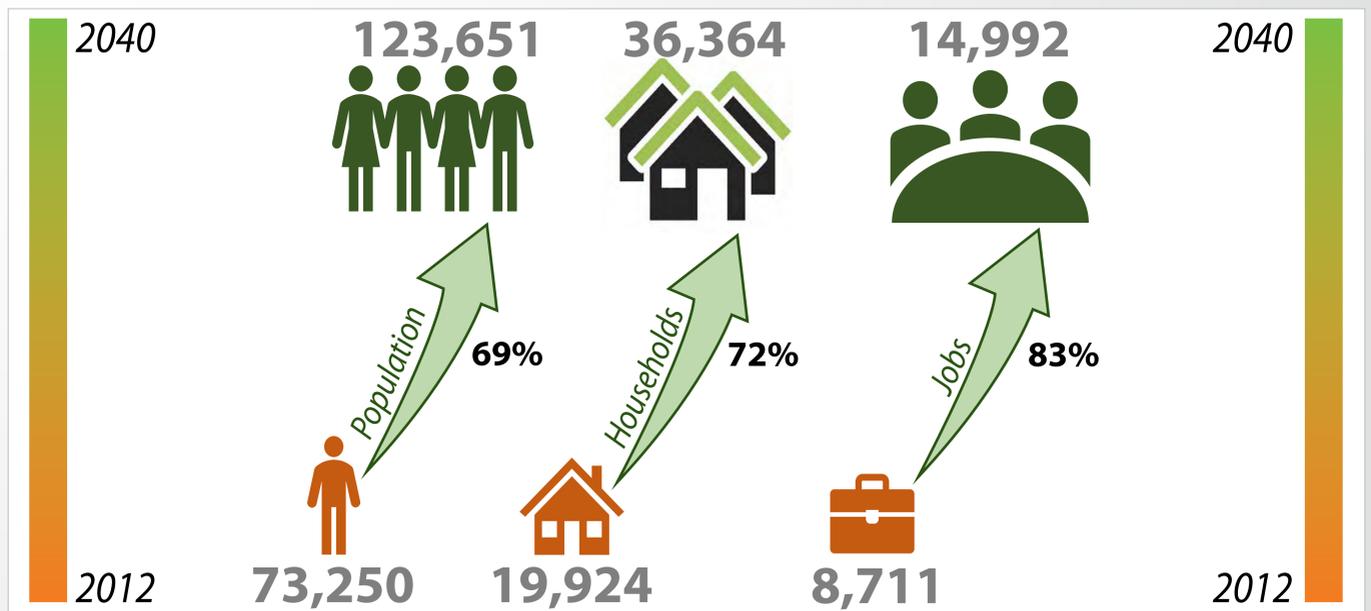
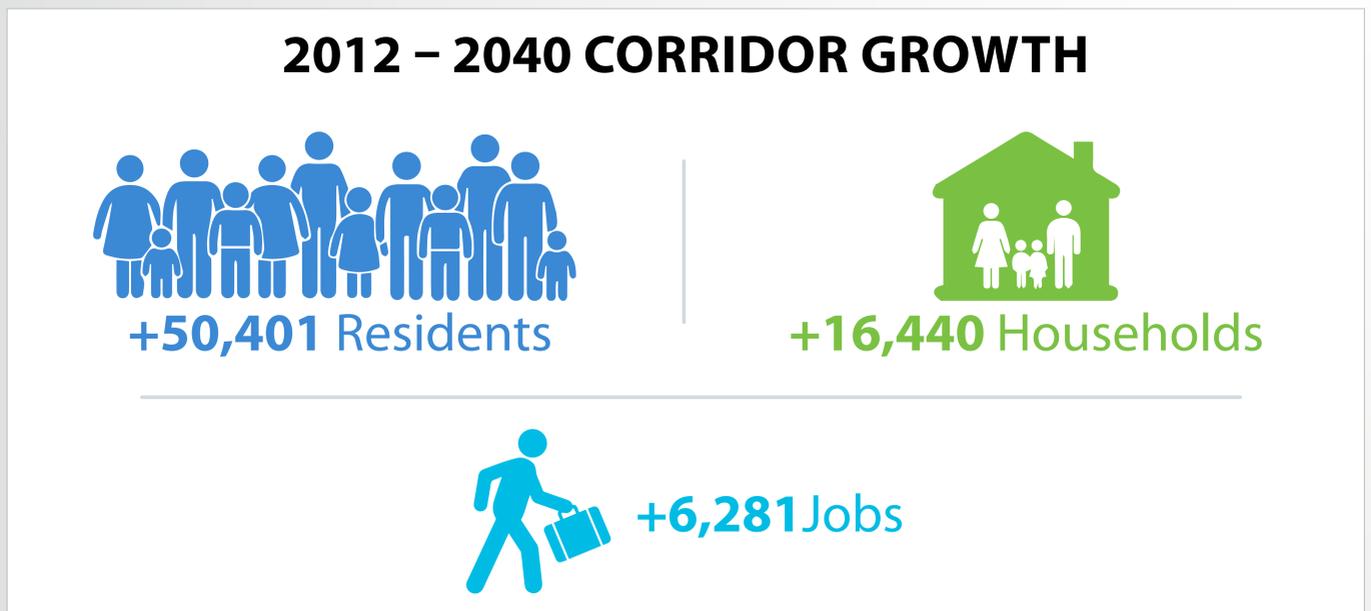
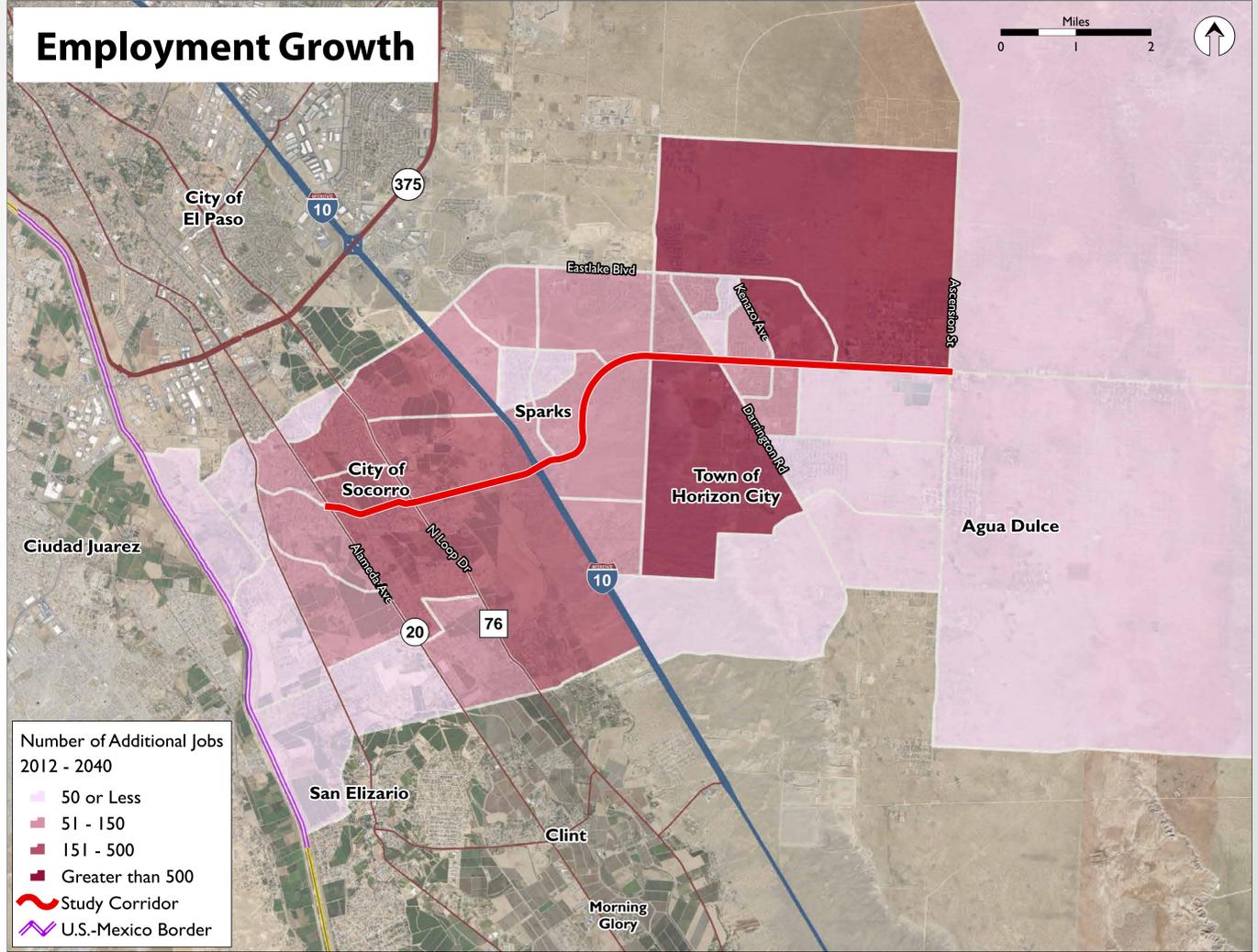
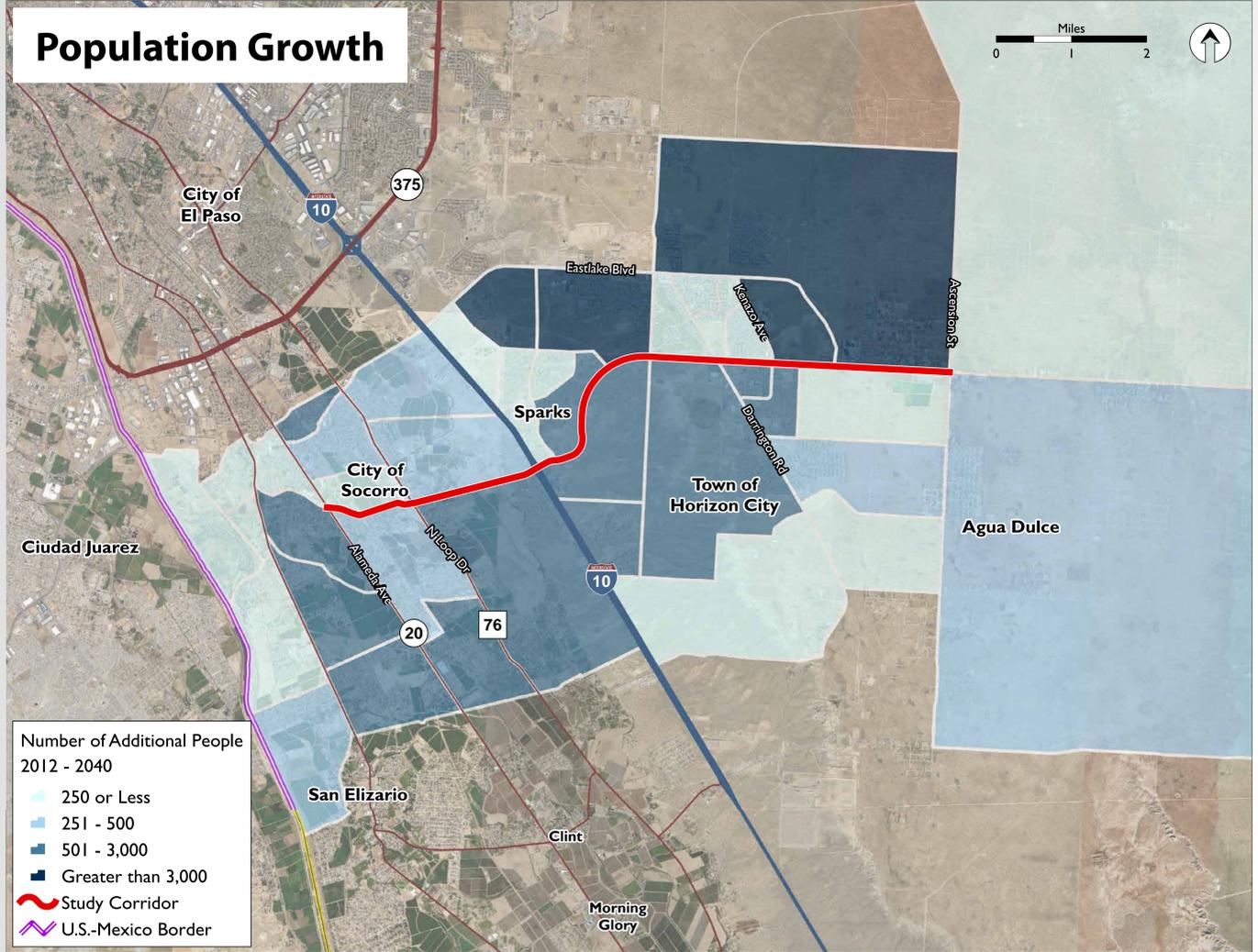


**Intersection Level of Service**

- A: Free-flow traffic
- B: Reasonably free-flow traffic
- C: Stable traffic flow
- D: Approaching unstable traffic flow
- E: Unstable flow with queuing and delays
- F: Significant delays and queues
- U.S.-Mexico Border

2017 Existing: PM Peak Hour

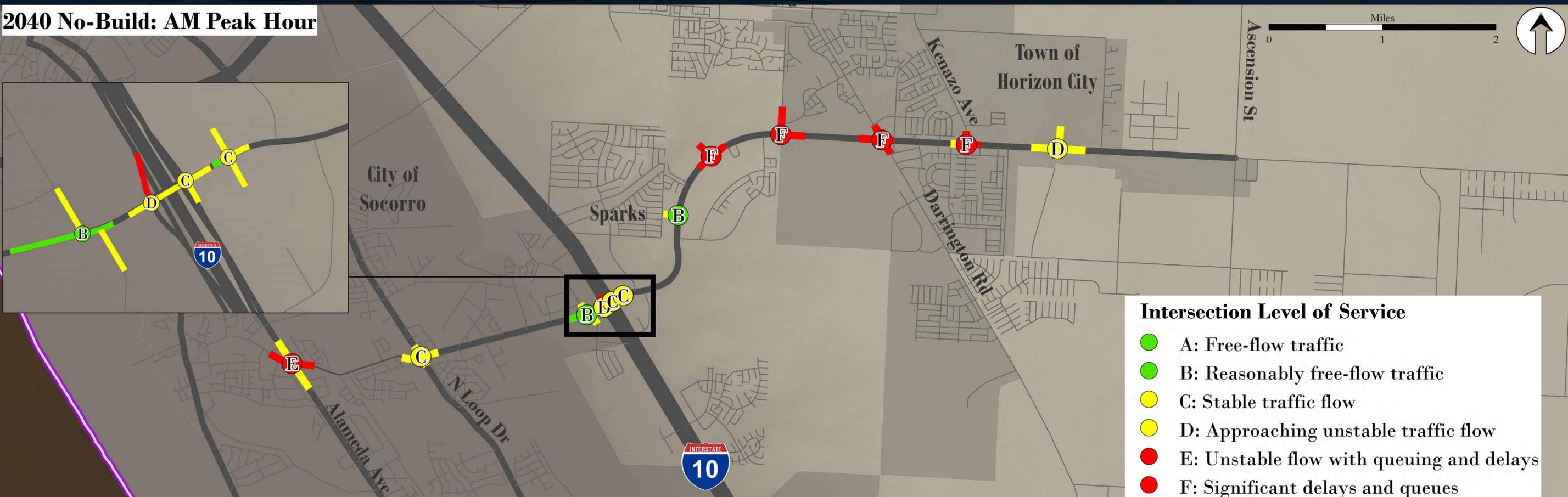




Source: El Paso MPO Horizon 2040 Model.

# TRAFFIC CONDITIONS: FUTURE NO-BUILD (2040)

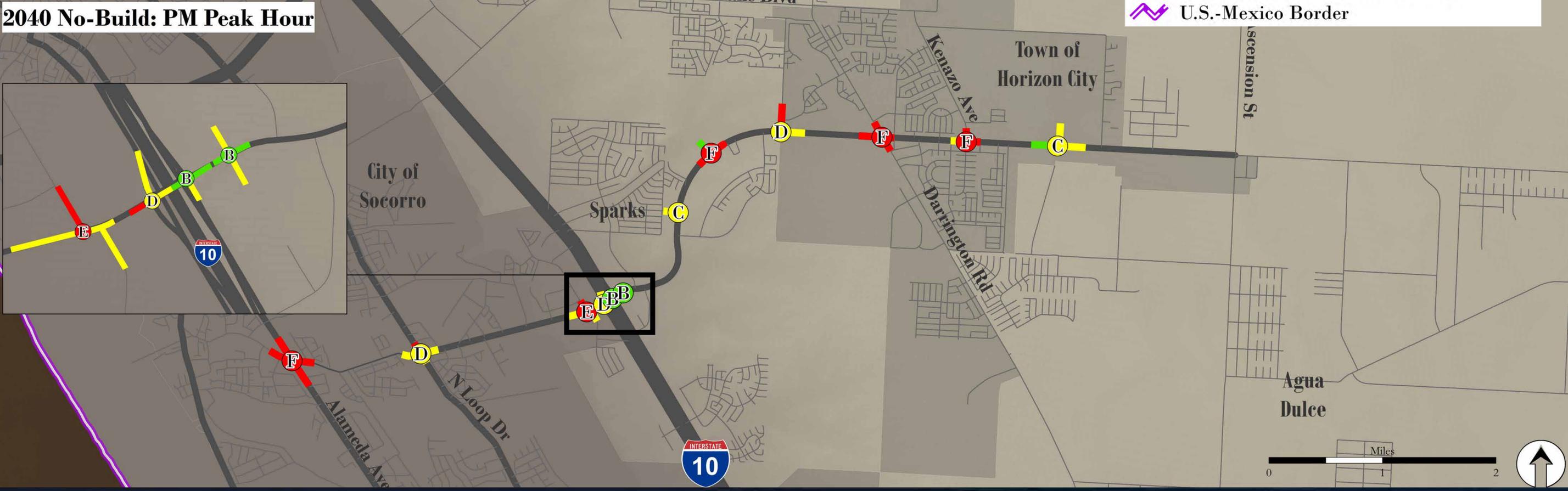
2040 No-Build: AM Peak Hour



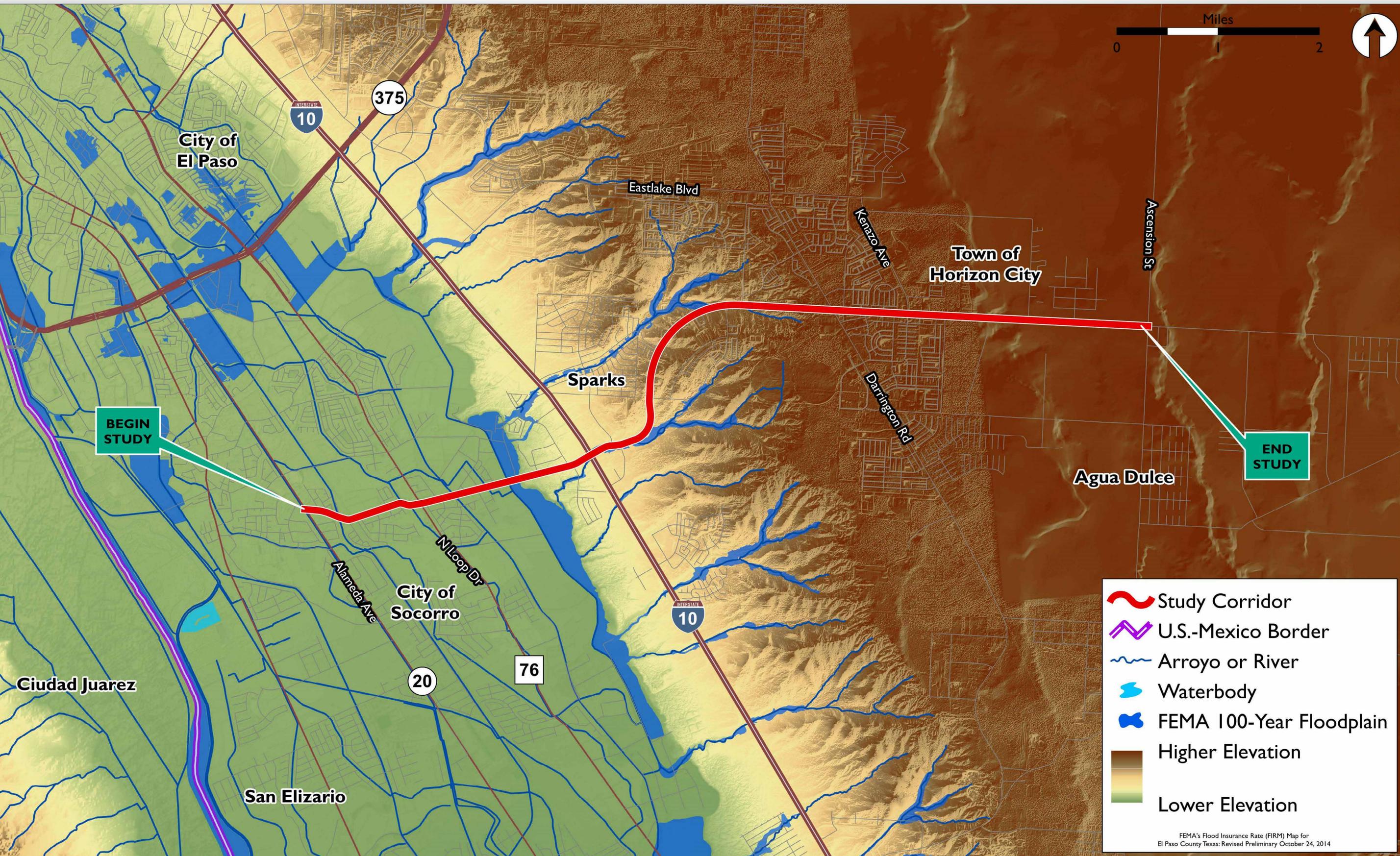
**Intersection Level of Service**

- A: Free-flow traffic
- B: Reasonably free-flow traffic
- C: Stable traffic flow
- D: Approaching unstable traffic flow
- E: Unstable flow with queuing and delays
- F: Significant delays and queues
- U.S.-Mexico Border

2040 No-Build: PM Peak Hour



# DRAINAGE



BEGIN STUDY

END STUDY

- Study Corridor
- U.S.-Mexico Border
- Arroyo or River
- Waterbody
- FEMA 100-Year Floodplain
- Higher Elevation
- Lower Elevation

FEMA's Flood Insurance Rate (FIRM) Map for El Paso County Texas. Revised Preliminary October 24, 2014

## AT CORRIDOR LEVEL

### Pedestrian/Multimodal/ Urban Design

- Upgrade crosswalks throughout the corridor to meet Americans with Disabilities Act (ADA) standards
- Recommend local jurisdictions to install artistic street name signs
- Provide shared use path connectivity on the north side of Horizon Blvd between I-10 and Ashford St and between Rifton Ct and Ascension St

### Intelligent Transportation Systems

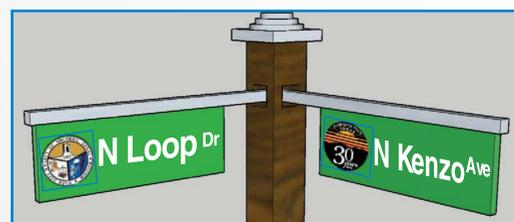
- Install fiber optic cables and pull boxes for improved communications
- Install Video Imaging and Vehicle Detection Systems
- Upgrade existing traffic signals with Adaptive Signal Control and signal coordination
- Upgrade existing traffic signals with Intersection Collision Avoidance System south of I-10
- Add Emergency Vehicle Pre-Emption for emergency response at all signalized intersections
- Add Dynamic Message Signs (DMS) at Alameda Ave, North Loop Dr, EB & WB I-10 Frontage Rd, Bowdoin St, and Darrington Rd

### Safety Measures

- Upgrade existing street lighting and pavement marking throughout the corridor
- Install chevron signs on curve between Peyton Rd and Ashford St
- Recommend conducting speed studies to ensure correctness of posted speed limits

### Access Management

- Access management along the corridor with driveway adjustments and closures (for already funded sections of the corridor)
- Install raised medians and directional median openings to accommodate left turns (for already funded sections of the corridor)



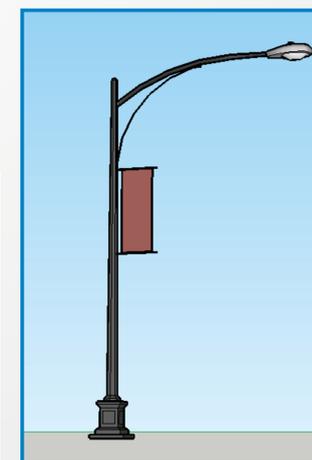
Artistic Street Signs and Wayfinding



Pavement Markings



Curve Warning System with Lighting



Street Lighting



Pedestrian Refuge Island



Pedestrian Hybrid Beacon

## AT INTERSECTION LEVEL

### Pedestrian/Multimodal/Urban Design

- Upgrade existing pedestrian refuge islands at North Loop Dr
- Install pedestrian hybrid beacon east of Horn Cir to replace the existing cross walk

### Railroad

- Add Highway Rail Crossing Warning System - flashing light warning signage

### Traffic Operations

- Optimize traffic signal cycle length and timing at Alameda Ave
- Signalize the intersection at Horizon Crossing St/Thea Smith Dr
- Convert the SB through/left turn lane into an exclusive SB left turn lane and optimize traffic signal cycle length and timing at Kenazo Ave
- Convert the Ascension St intersection to all-way stop control

## AT CORRIDOR LEVEL

### Intelligent Transportation Systems

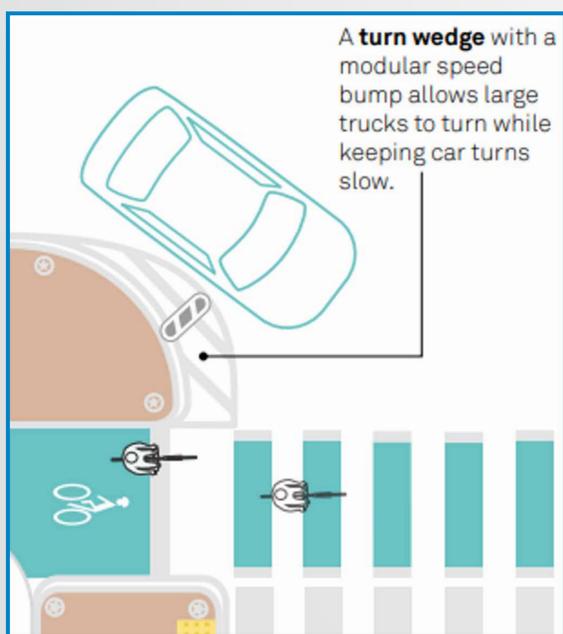
- Add Emergency Vehicle Pre-Emption for emergency response for new traffic signals

### Safety Measures

- Install streetlighting south of I-10 from Alameda Ave to Middle Drain Rd, on the curve between Regina Dr and North Loop Dr, and on the north side of Horizon Blvd from Sparks Cir to Stockyard Rd
- Install turn wedges on cross streets as safety measures for traffic entering residential areas between Alameda Ave and I-10 as specified on the roll plots

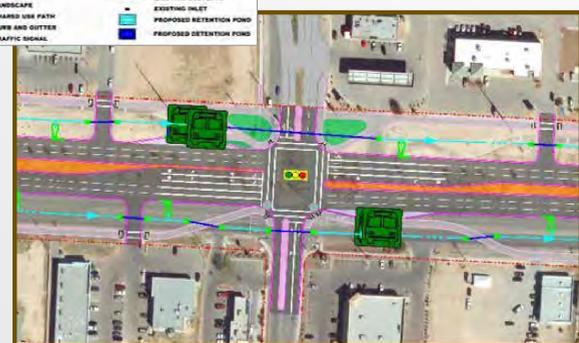
### Access Management

- Access management along the corridor from Alameda Ave to North Loop Dr with driveway adjustments and closures
- Install directional median openings to accommodate left turns from Alameda Ave to North Loop Dr



NACTO Turn Wedge

Realignment of Nancy Dr



Realignment of Kenazo Ave

## AT INTERSECTION LEVEL

### Pedestrian/Multimodal/Urban Design

- Freshen pavement markings and install pedestrian refuge islands at crossings at signalized intersections at Alameda Ave, North Loop Dr, and Stockyard Dr
- Freshen pavement markings and install pedestrian refuge islands and pedestrian hybrid beacons at crossings without a signalized intersection at Monte Alto, Homan Dr, Horn Cir, Patti Jo Dr, and Robin Rd

### Railroad

- Provide gates on both sides of the railroad track for the pedestrian crossing at the railroad tracks

### Traffic Operations

- Install SB & WB left turn lanes and optimize traffic signal cycle length and timing at Alameda Ave
- Install SB & WB left turn lanes and optimize traffic signal cycle length and timing at North Loop Dr
- Realign Stockyard Dr and Nancy Dr to a 4-legged intersection

- Install SB left turn lane at Stockyard Dr and optimize traffic signal cycle length and timing
- Optimize traffic signal cycle length and timing at Love's Driveway
- Signalize the intersection at Peyton Rd
- Add WB left turn lane and optimize traffic signal cycle length and timing at Horizon Crossing St
- Add NB left turn lane and optimize traffic signal cycle length and timing at Darrington Rd
- Install EB left turn lane at Kenazo Ave
- Realign Kenazo Ave to eliminate the offset intersection and optimize traffic signal cycle length and timing
- Convert the SB right turn lane into a left turn lane at Eastlake Blvd
- Optimize traffic signal cycle length and timing at Eastlake Blvd
- Signalize the intersection at Rifton Ct
- Realign the Ascension St approaches and signalize the intersection at Ascension St



Pedestrian Hybrid Beacon



Pedestrian Refuge Island



Pedestrian Gate at Railroad

## AT CORRIDOR LEVEL

### Pedestrian/Multimodal/ Urban Design

- Upgrade the sidewalks on both sides of Horizon Blvd between Alameda Ave and I-10 to 1-way shared use paths
- Install a 2-way shared use path on the south side of Horizon Blvd between I-10 and Ascension St

### Intelligent Transportation Systems

- Complete connections to the TransVista traffic management center
- Upgrade existing 911 system to Next Gen 911

### Safety Measures

- Install streetlighting on the south side of Horizon Blvd from Peyton Rd to Darrington Rd, on both sides of Horizon Blvd from Darrington Rd to Lago Este Dr, on the south side of Horizon Blvd from Lago Este Dr to Antwerp Rd, and on both sides of Horizon Blvd from Antwerp Rd to Ascension St

- Install turn wedges or driveway narrowings as safety measures for traffic entering residential areas from I-10 to Ascension St as specified on the roll plots

### Traffic Operations

- Reconstruct Horizon Blvd south of I-10 to 2 lanes in each direction with a 14-ft raised median, directional median openings to accommodate left turns, and bus pullouts
- Reconstruct Horizon Blvd north of I-10 to 3 lanes in each direction with a 14-ft raised median, directional median openings to accommodate left turns, and bus pullouts

### Access Management

- Access management along the corridor from I-10 to Ascension St with driveway adjustments and closures
- Install directional median openings to accommodate left turns from I-10 to Ascension



Shared Use Path & Offset Locations



Shared Use Path continues across Driveway

## AT INTERSECTION LEVEL

### Pedestrian

- Freshen pavement markings and install pedestrian refuge islands at crossings at signalized intersections at I-10, Peyton Rd, Bowdoin St, Rojas Dr, Ashford St, Horizon Crossing St, Darrington Rd, Kenazo Ave, Eastlake Blvd, Rifton Ct, and Ascension St
- Install pedestrian refuge islands and pedestrian hybrid beacons at crossings without a signalized intersection at Ellsworth Dr, County probation center, Richard Smith St, Lago Este Dr/Breaux St, Desert Mesa Dr, Crocker Dr, Groveland St, Gretna Ave, and Rochelle (west of Ascension St)

### Transit

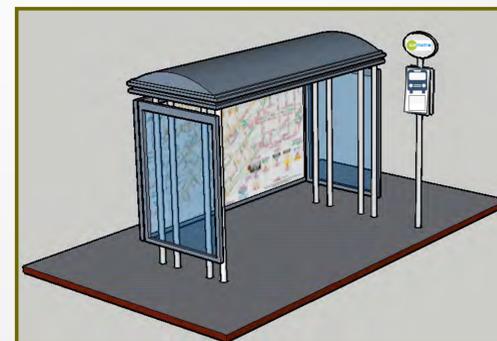
- Install bus pullouts at Monte Alto, Homan Dr, Horn Cir, Patti Jo Dr, Robin Rd, Ellsworth Dr, Rojas Dr, Ashford St, Horizon Crossing St, Eastlake Blvd, Groveland St, Gretna Ave, Rochelle, and Ascension St
- Install bus pullouts with shelters at Alameda Ave, North Loop Dr, Peyton Rd, County probation center, Lago Este Dr/Breaux St, Kenazo Ave, and Crocker Dr

### Railroad

- Build an overpass at the railroad tracks

### Traffic Operations

- Change the interchange at I-10 to a Diverging Diamond Interchange
- Extend Rojas Dr to Horizon Blvd with a Continuous Green T intersection
- Change the intersection at Ashford St to a Median U-turn
- Change the intersection at Darrington Rd to a Displaced Left Turn

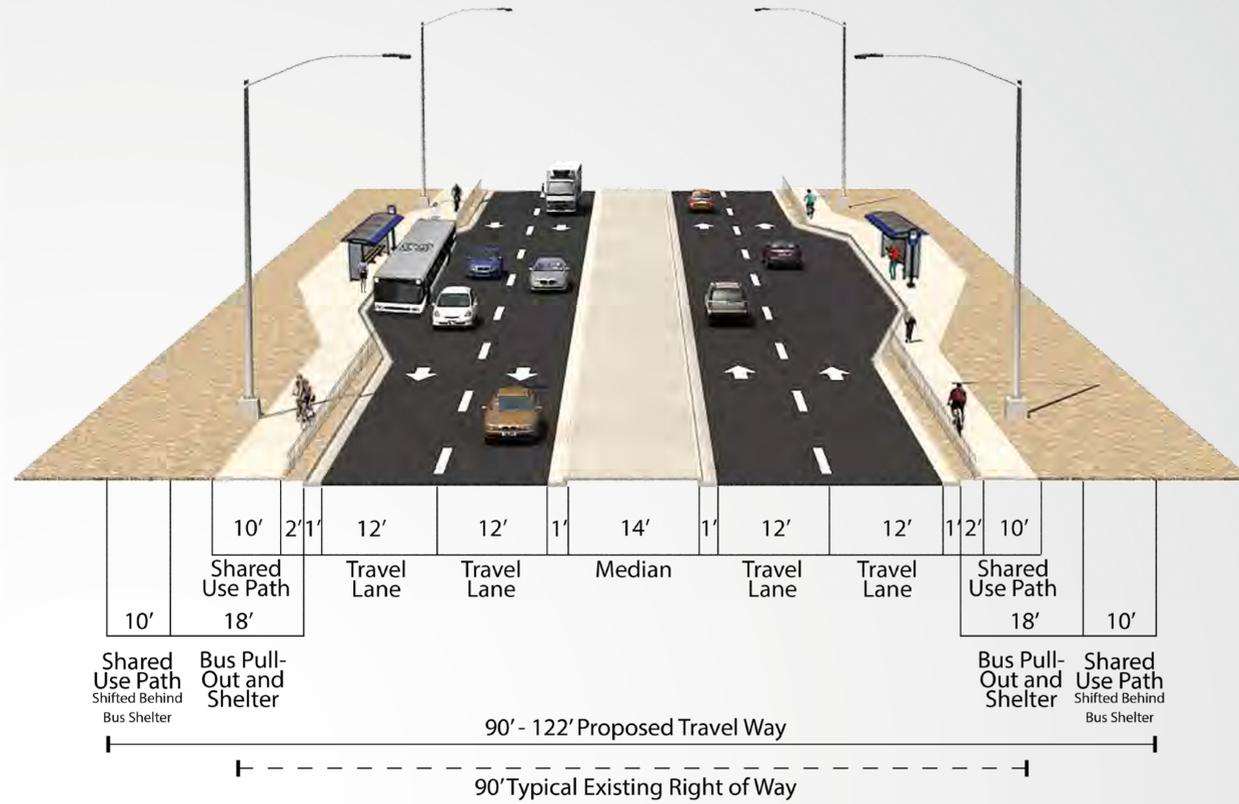
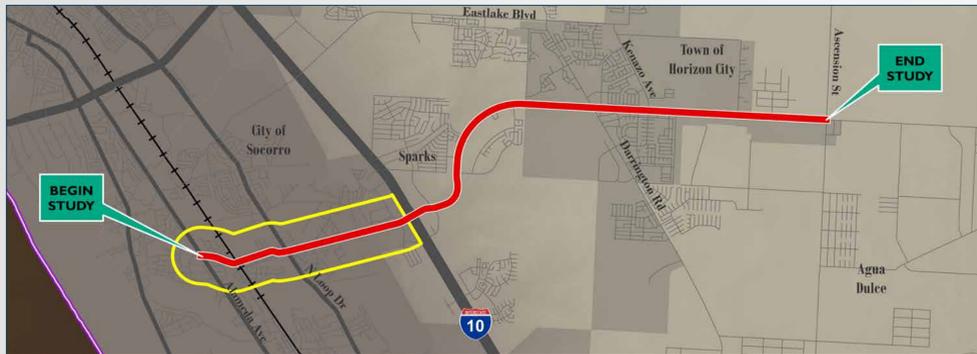


Bus Stop Shelters

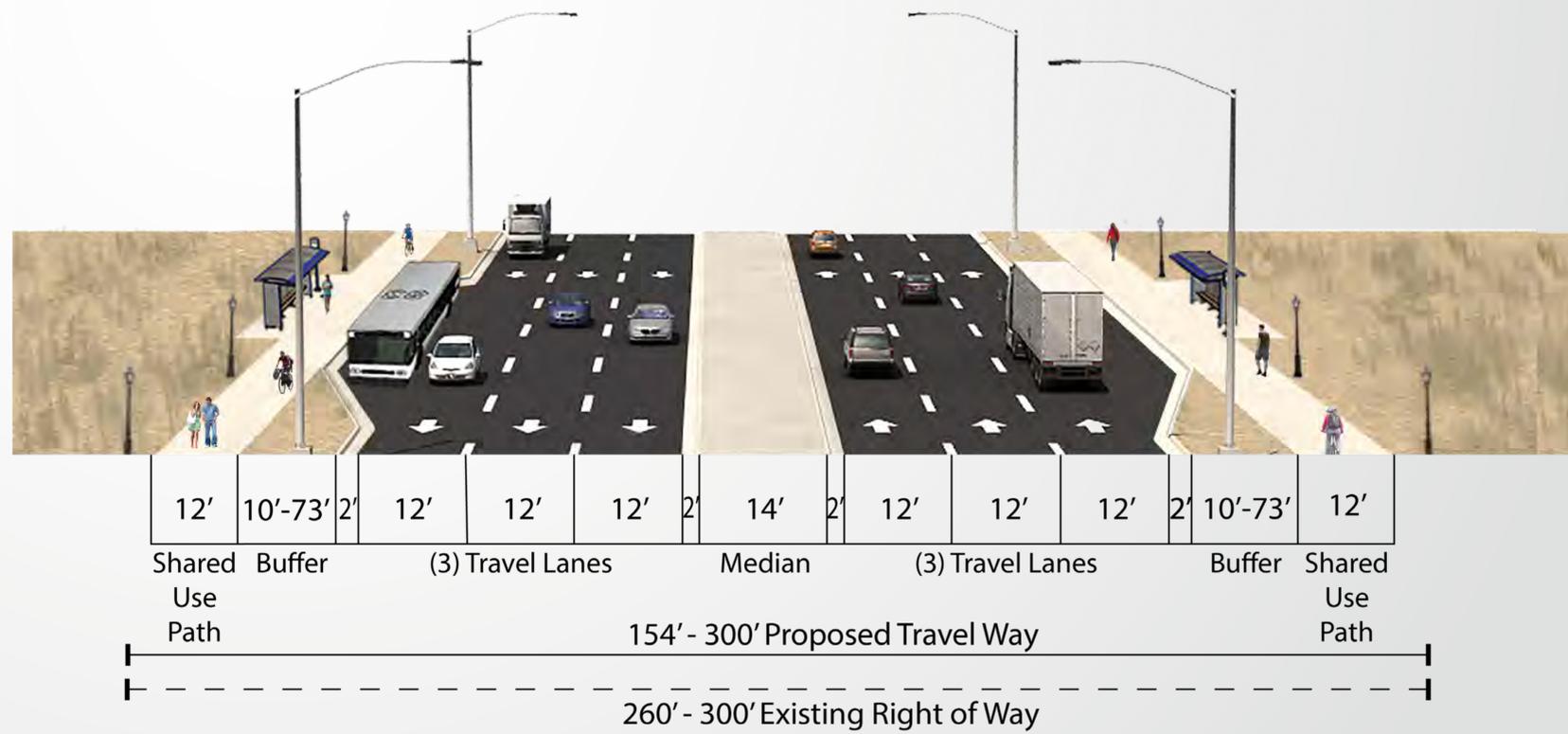
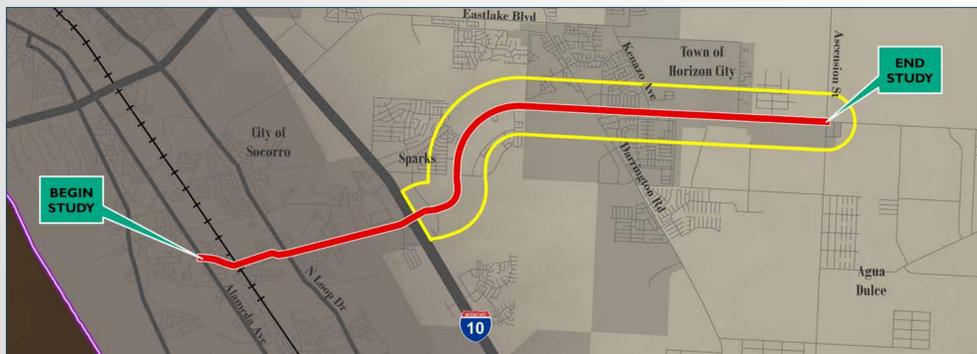


Bus Pull Outs

## Southern Section - Alameda Ave to I-10

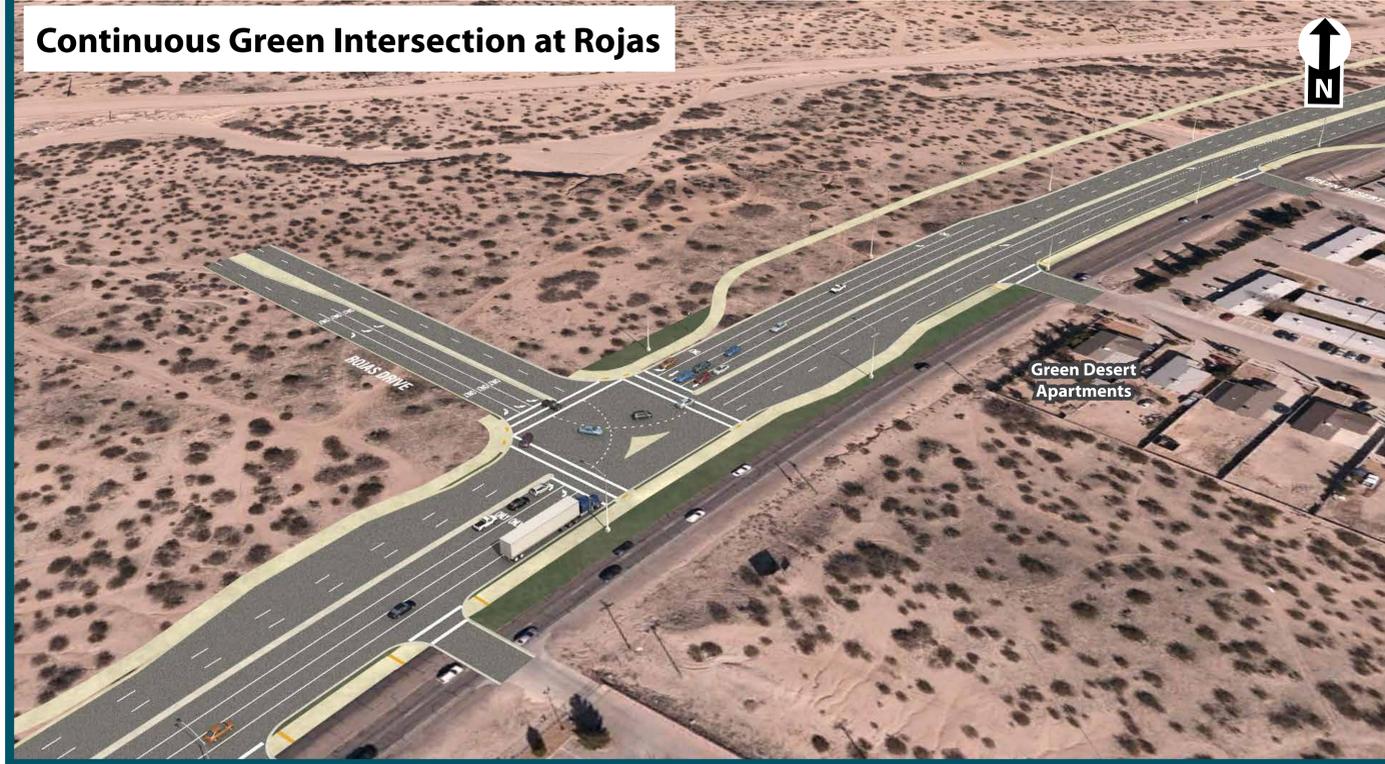
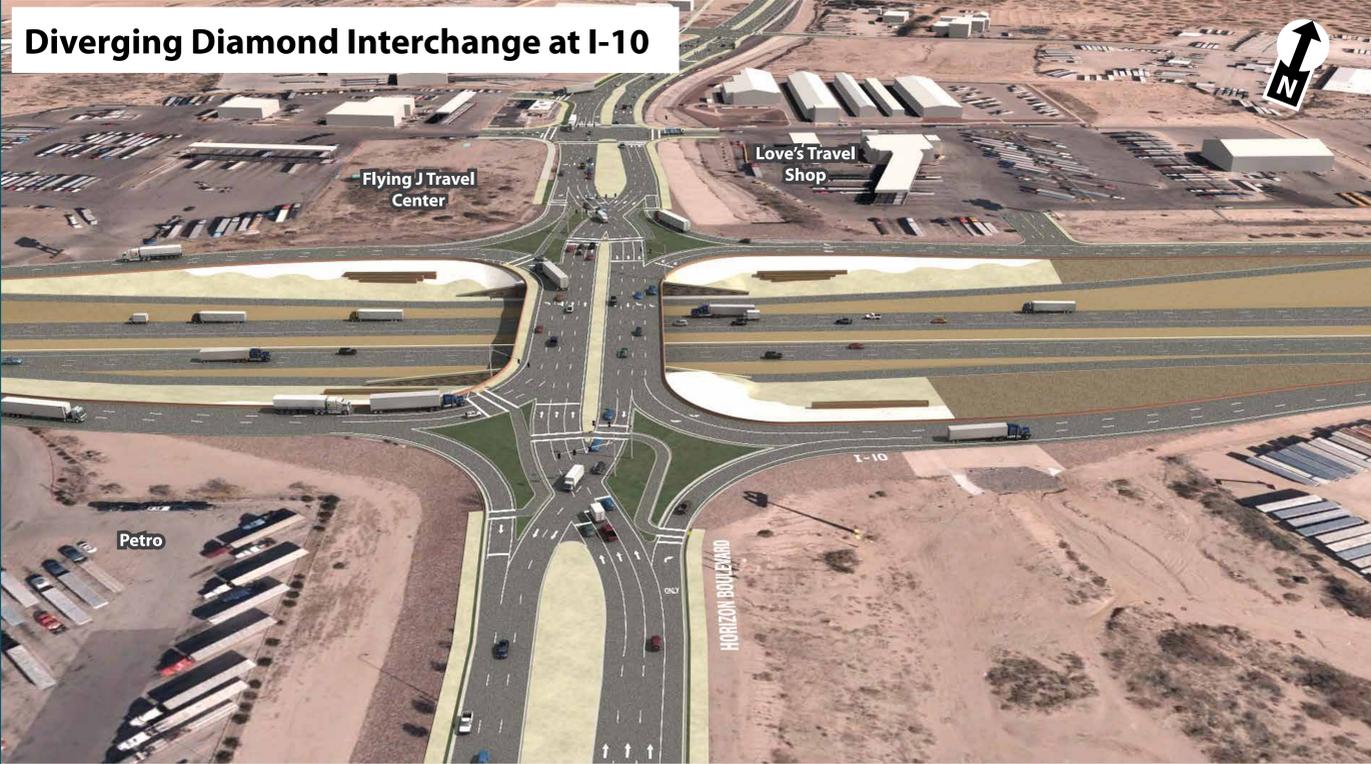


## Northern Section - I-10 to Ascension St



Note: 18' Bus Pull-Out & Shelter at select locations are included where buffer is more than 18'.





# INTERSECTION IMPROVEMENTS

**Displaced Left Turn intersection  
at Darrington Road**



**Realignment at Stockyard  
Drive/Nancy Drive**



**Darrington Road Alternate View**



**Ascension St**





- **3D Flyover of Horizon Boulevard**



- **I-10 Interchange Animation**



- **Darrington Road Intersection Animation**



- **HoloLens Experience**

## Submit Comments

---



**Comment Card:**

**Submit your written comments**  
Download comment card from website



**Email:**

**[info@HorizonFM1281.com](mailto:info@HorizonFM1281.com)**



**Mail:**

Texas Department of Transportation  
Re: Horizon Boulevard Corridor Master Plan  
c/o Thelma Ramirez – Project Manager  
13301 Gateway Boulevard West  
El Paso, TX 79928-5410  
915.790.4200  
[Thelma.Ramirez@txdot.gov](mailto:Thelma.Ramirez@txdot.gov)



**Website:**

For more information visit **[www.txdot.gov](http://www.txdot.gov)**,  
keyword “Horizon Corridor” or visit  
**[www.HorizonFM1281.com](http://www.HorizonFM1281.com)**

*All comments must be submitted or postmarked by **April 10, 2020** to be part of the official record of the Public Meeting*





# Thank You

