Texas Department of Transportation

HORIZON BLVD
CORRIDOR STUDY — FM 1281

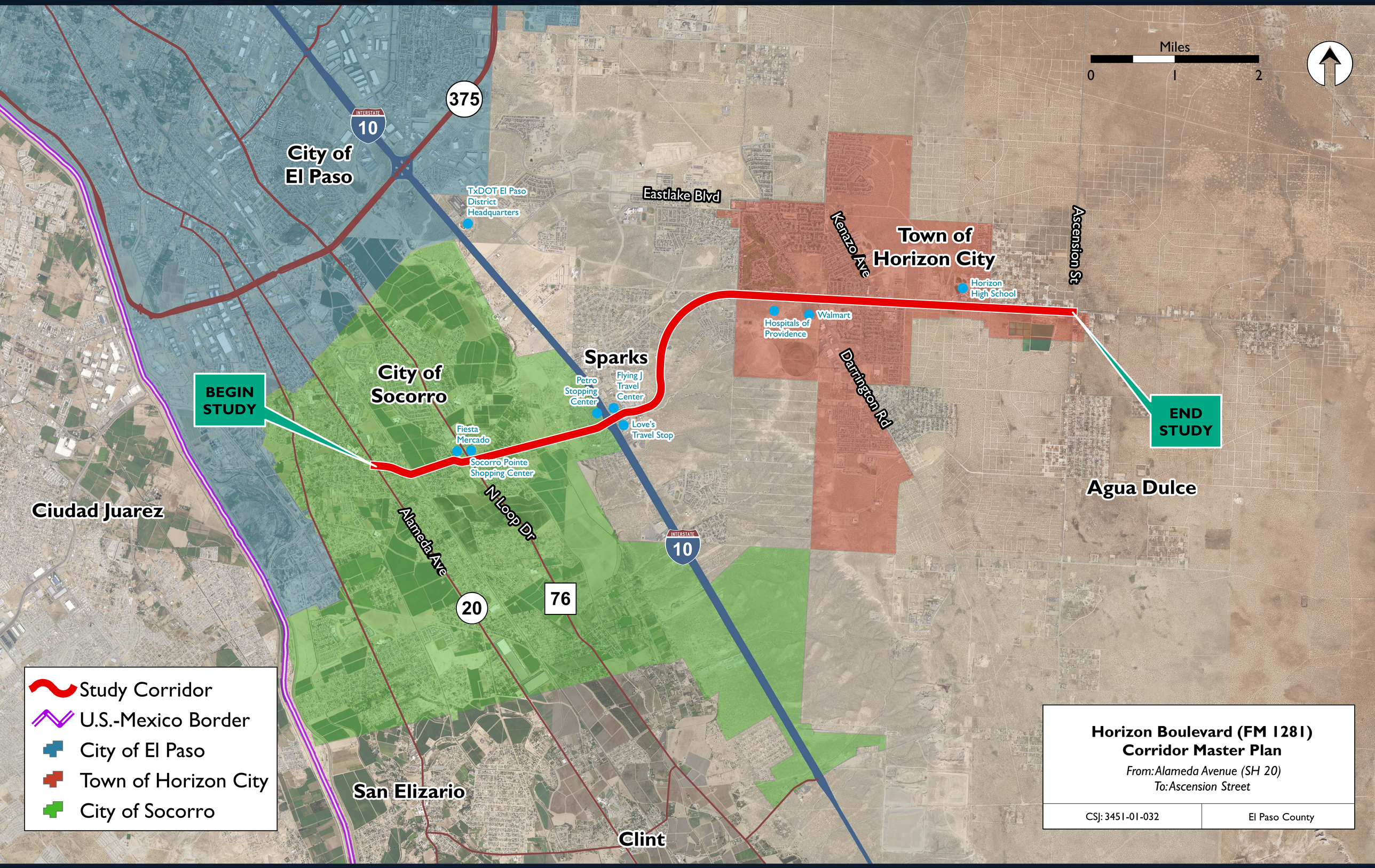
WELCOME

Horizon Boulevard (FM 1281)

Corridor Master Plan Study

From Alameda Avenue (SH 20)
To Ascension Street

STUDY LOCATION



HORIZON BOULEVARD (FM 1281) CORRIDOR MASTER PLAN PURPOSE

The Corridor Master Plan will identify current and future transportation needs along Horizon Boulevard (FM 1281) from Alameda Avenue (SH 20) to Ascension Street. Study objectives are to enhance efficiency, safety and mobility along the corridor by recommending improvements and strategies for short-, mid- and long-term implementation.

STUDY TIMELINE

FALL 2019

Complete Horizon Boulevard (FM 1281) Corridor Master Plan

SUMMER 2019

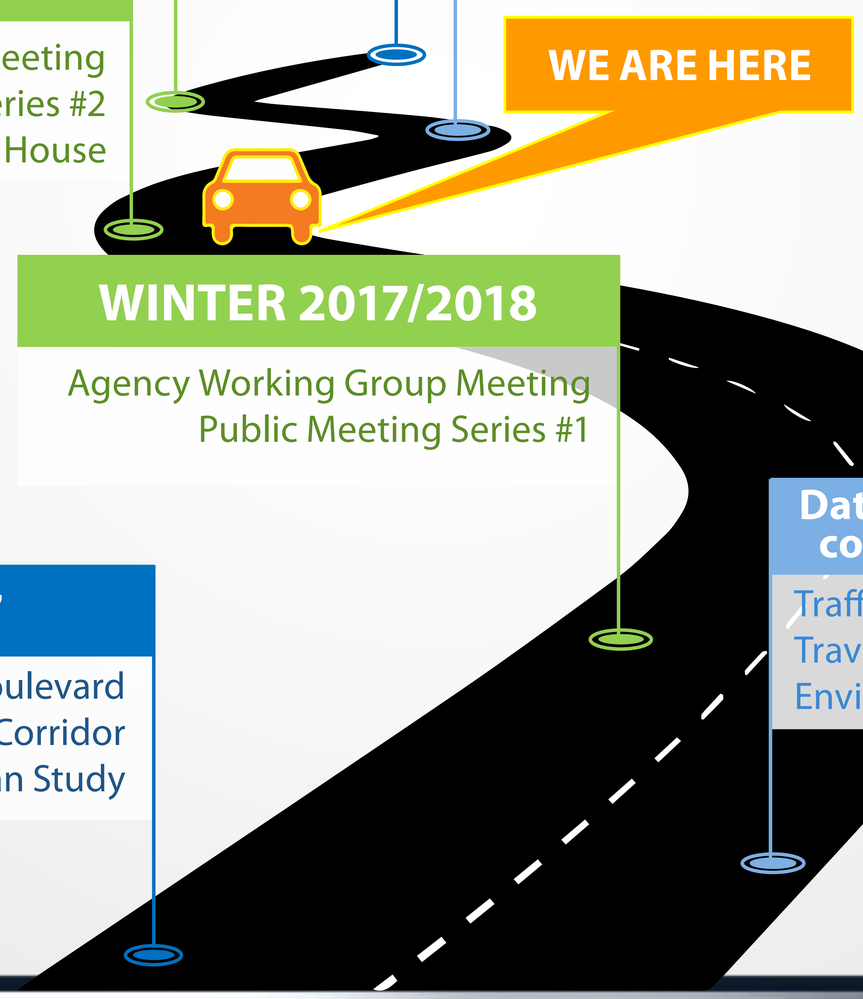
Agency Working Group Meetings
Public Meeting Series #3
Business Open House

Develop Corridor Master Plan

Analyze and Prioritize Alternatives
Develop Implementation Plan

WINTER 2018/2019

Agency Working Group Meeting
Public Meeting Series #2
Business Open House



SPRING/SUMMER 2018

Develop & Evaluate Conceptual Alternatives & Strategies

WINTER 2017/2018

Agency Working Group Meeting
Public Meeting Series #1

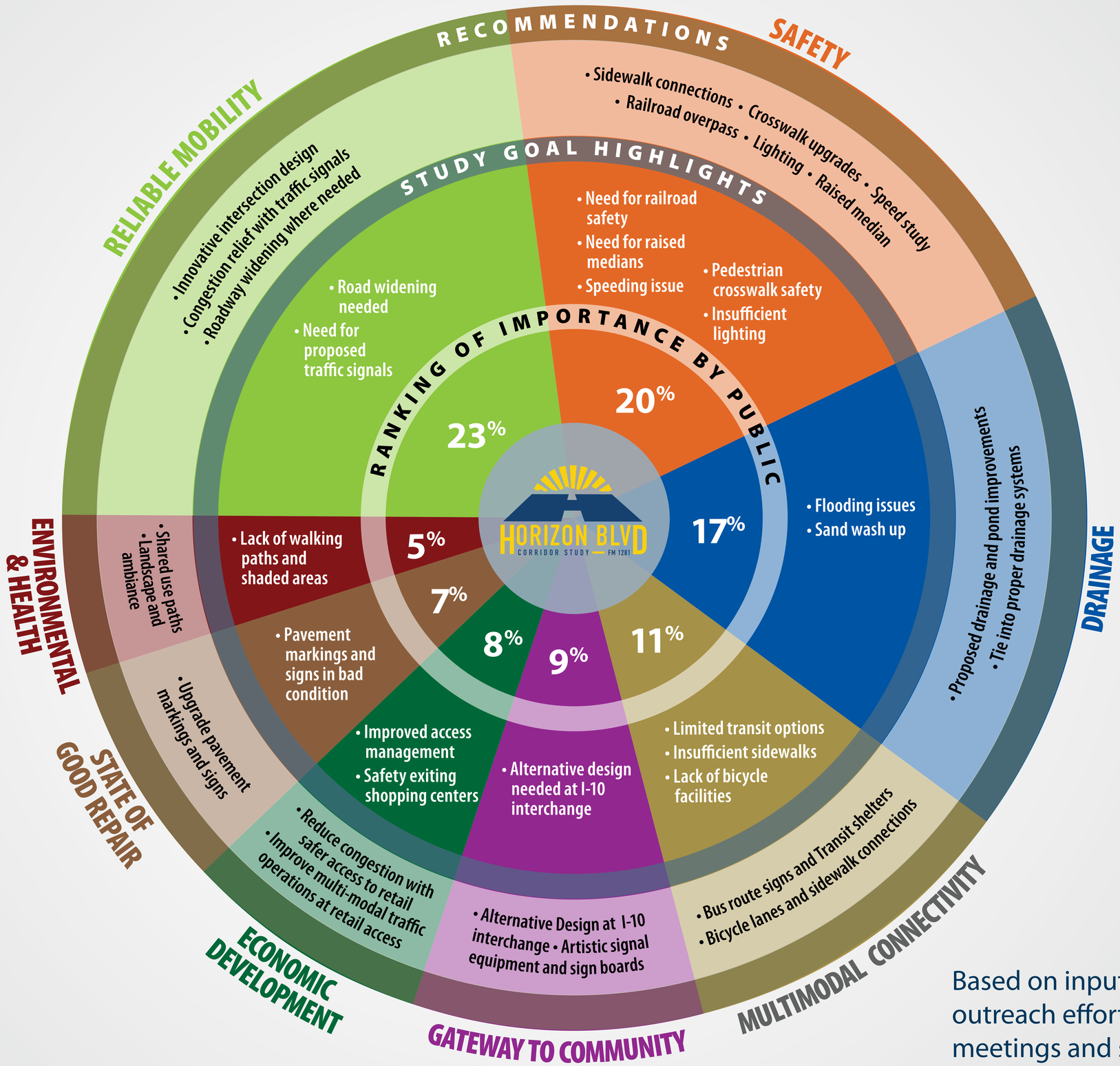
Data collection and existing conditions/needs analysis

Traffic Data Collection
Travel Demand Modeling
Environmental Constraints

FALL 2017

Began Horizon Boulevard (FM 1281) Corridor Master Plan Study

PUBLIC MEETING SERIES #1 – FEEDBACK, HIGHLIGHTS AND RECOMMENDATIONS



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

CRASH ANALYSIS SUMMARY (2012 - 2016)

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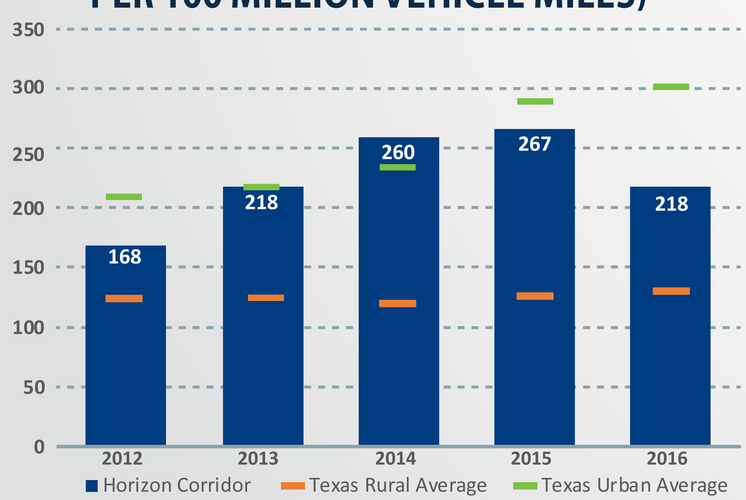
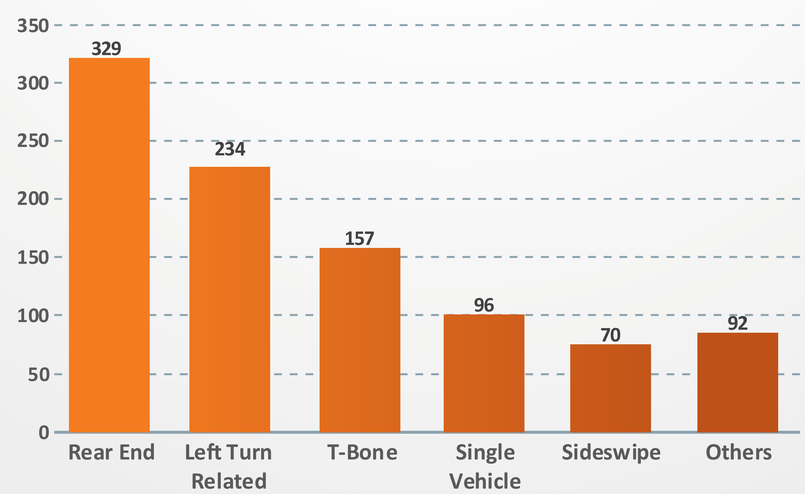
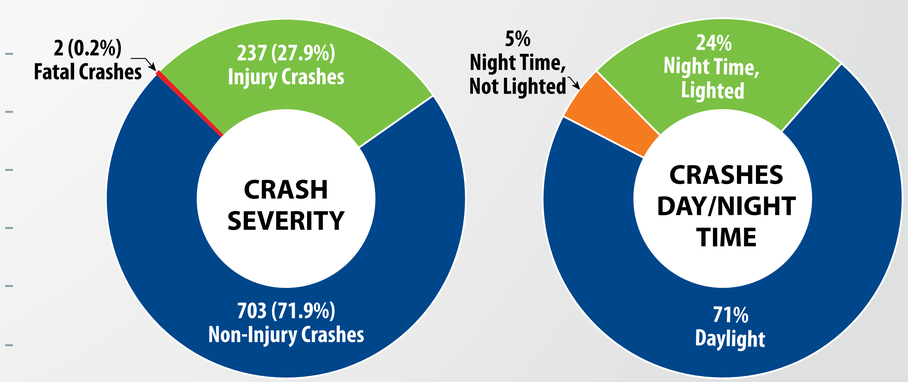
HORIZON BLVD CORRIDOR STUDY — FM 1281

CRASH RATES (TRAFFIC CRASHES PER 100 MILLION VEHICLE MILES)



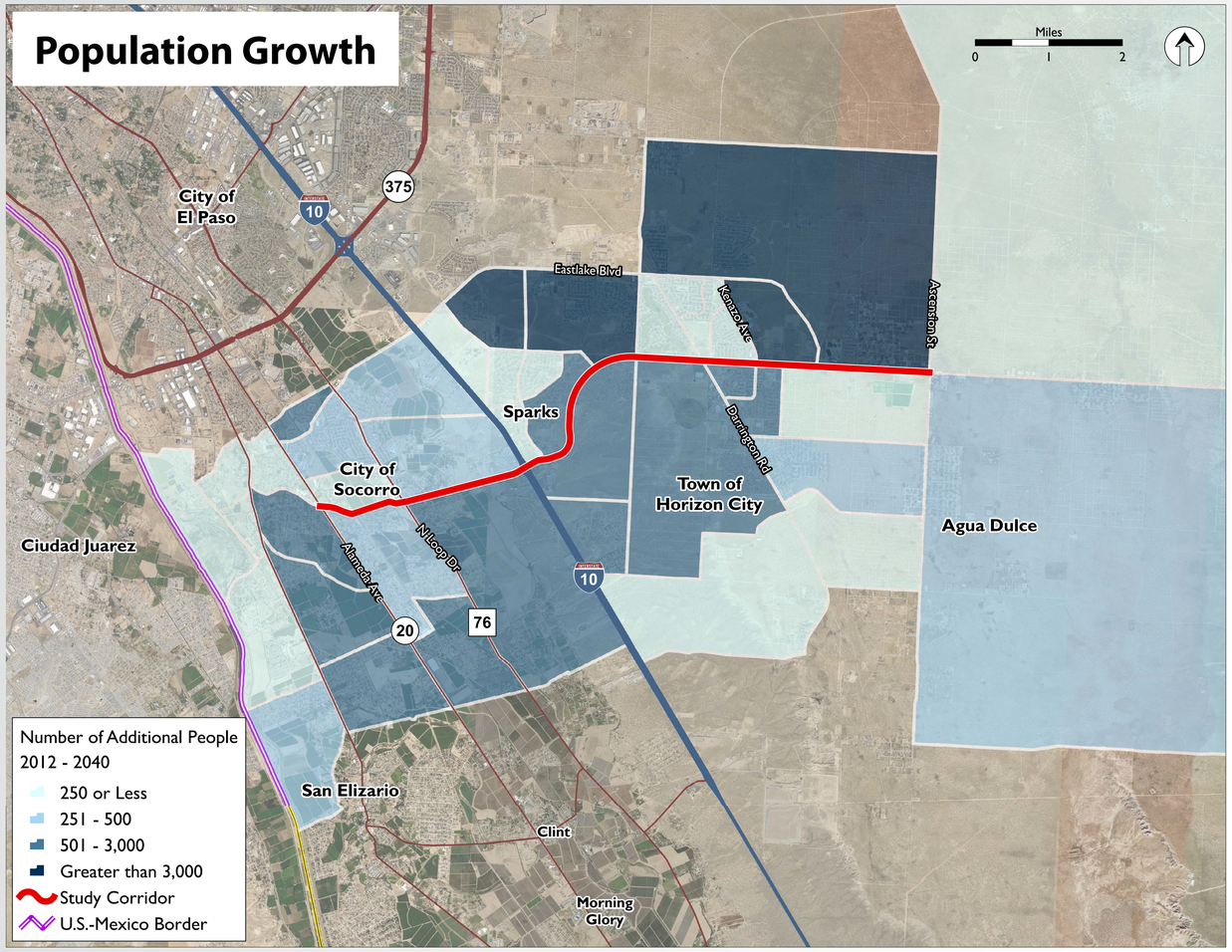
TYPES OF CRASHES

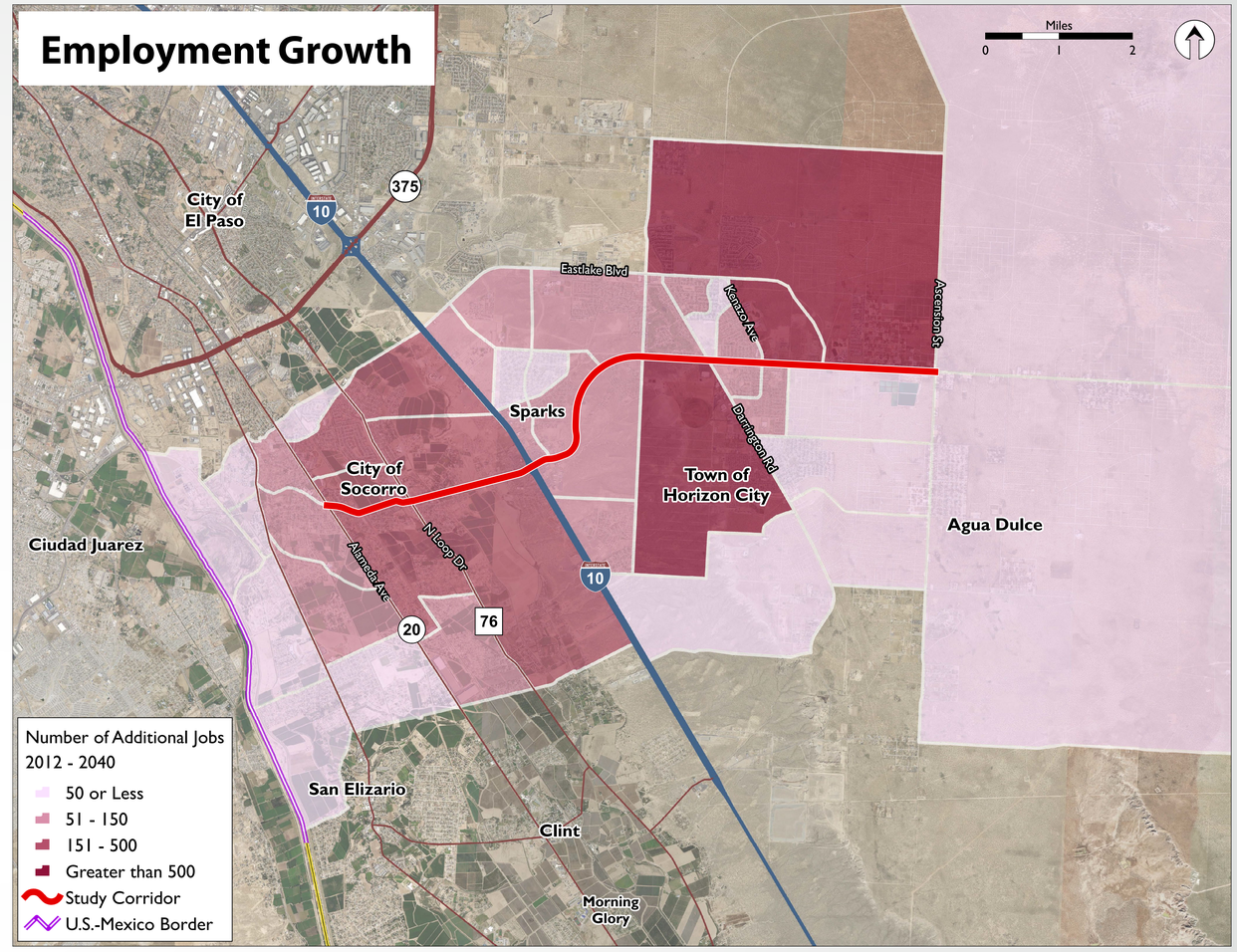




Source: CDM Smith using TxDOT 2012 to 2016 Crash Records Information System data

POPULATION AND EMPLOYMENT GROWTH



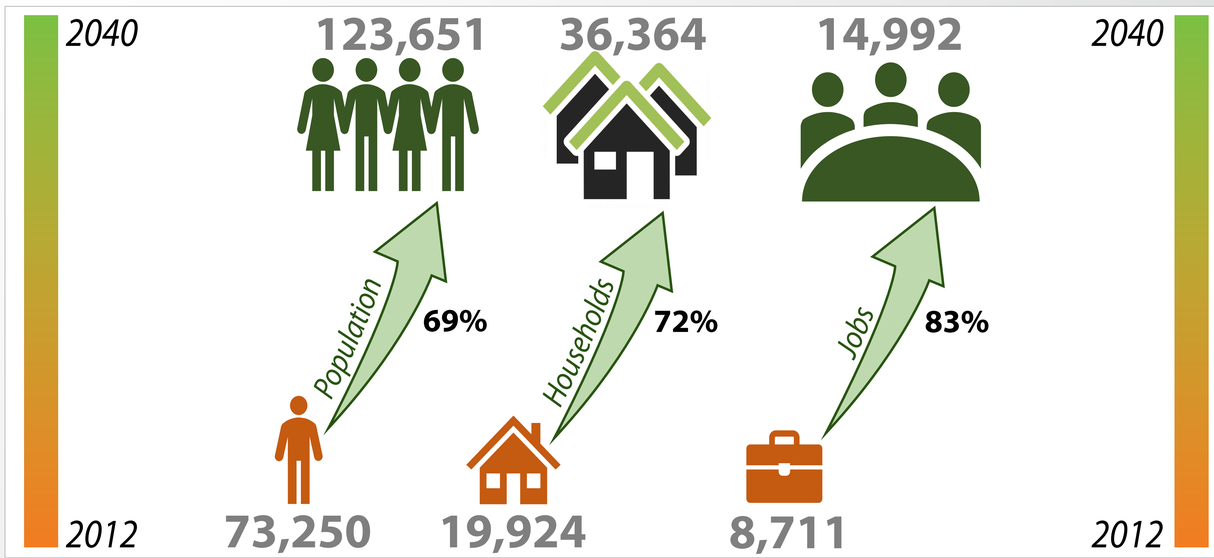


2012 – 2040 CORRIDOR GROWTH

+50,401 Residents

+16,440 Households

+6,281 Jobs



Source: El Paso MPO Horizon 2040 Model.

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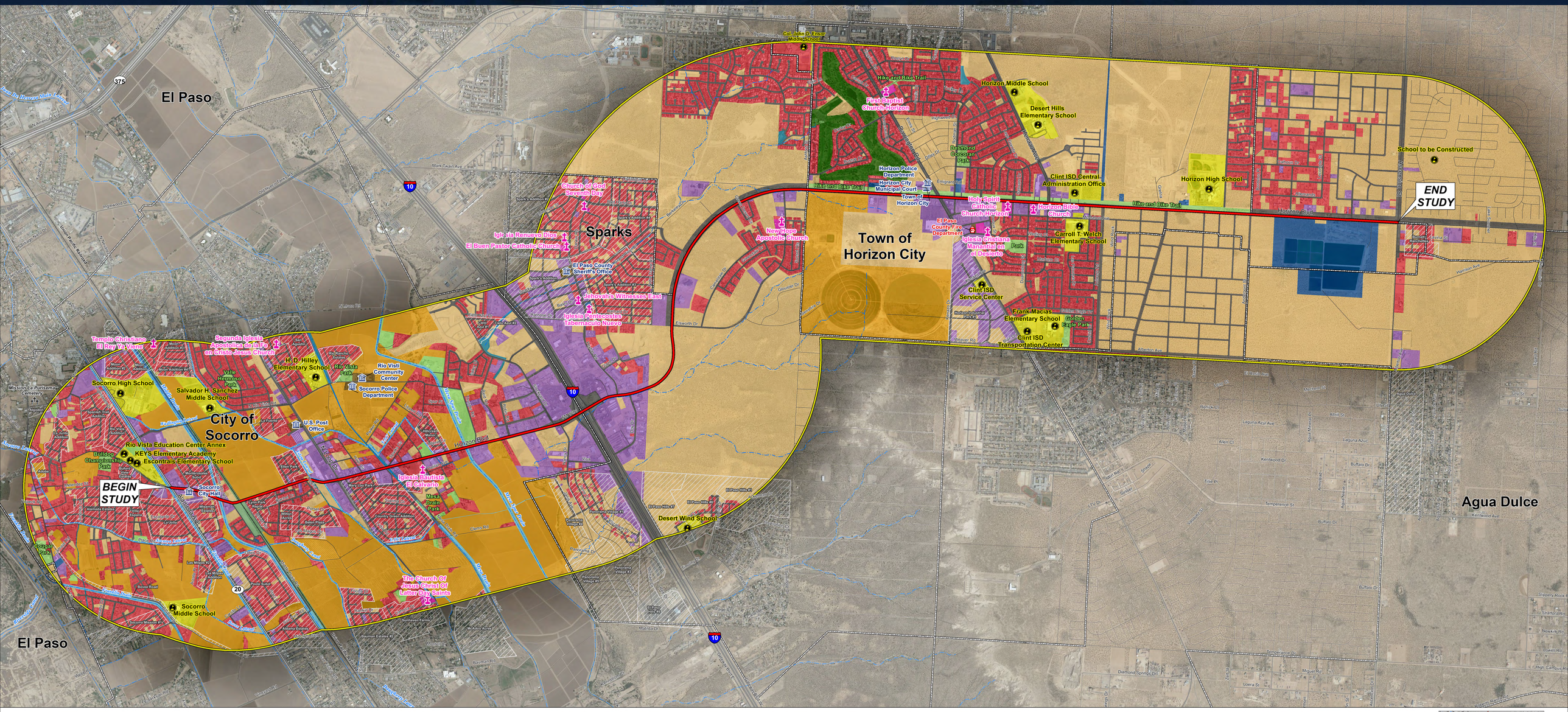
ENVIRONMENTAL CONSTRAINTS: PANEL 1

HORIZON BLVD CORRIDOR STUDY — FM 1281



Study Location
1-mile Study Area
City Boundary

School
Church
Fire Station
Public Building

River/Arroyo/Canal
Colonia

Land Use
Agriculture
Commercial
Drainage Canal
Drainage Ditch
Farm and Ranch
Golf Course
Government
Park
Place of Worship
Railroad
Residential
School
Transportation
Undeveloped
Utility

N W E S

1:12,000

0 0.25 0.5 1
Miles

Base Map: Texas Imagery Service

Texas Department of Transportation

ENVIRONMENTAL CONSTRAINTS: PANEL 2

HORIZON BLVD
CORRIDOR STUDY — FM 1281

- Study Location
- 1-mile Study Area
- City Boundary
- Prime Farmland Soil (NRCS)
- Ground Water Well
- River/Arroyo/Canal
- Pond/Lake/Playa
- National Wetland Inventory Feature
- 100-year Floodplain*
- Historical Marker
- Historical Property
- Historic Canal/Lateral/Drain
- Historic District
- El Paso County Water Improvement District No. 1
- Gas Pipeline
- Oil/Gas Permitted Location
- Petrolium Storage Tank
- Water Treatment Facility (no longer there)

*West of Mesa Spur Drain flood data is not available within the study area.

1:12,000

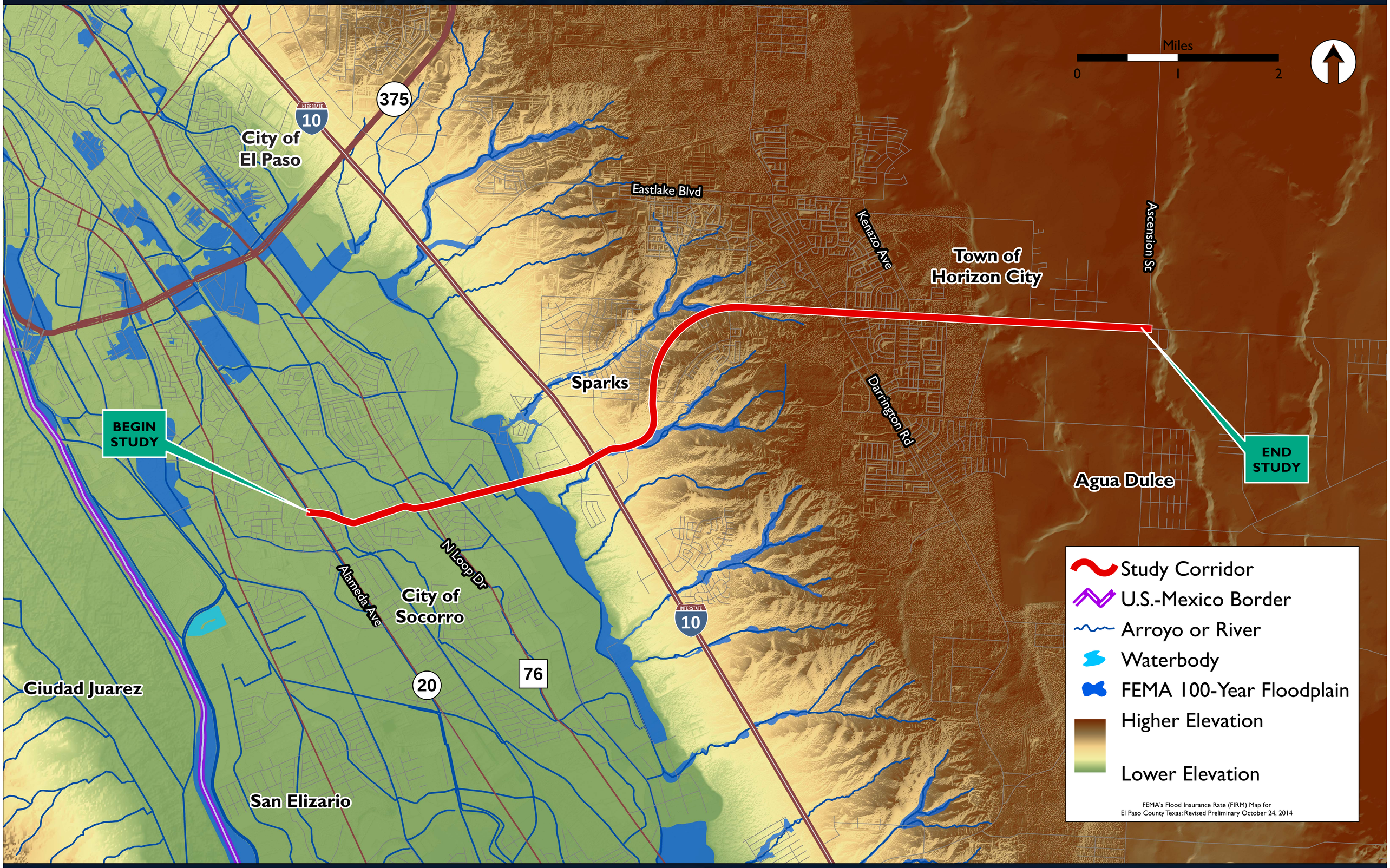
0 0.25 0.5 1 Miles

Base Map: Texas Imagery Service

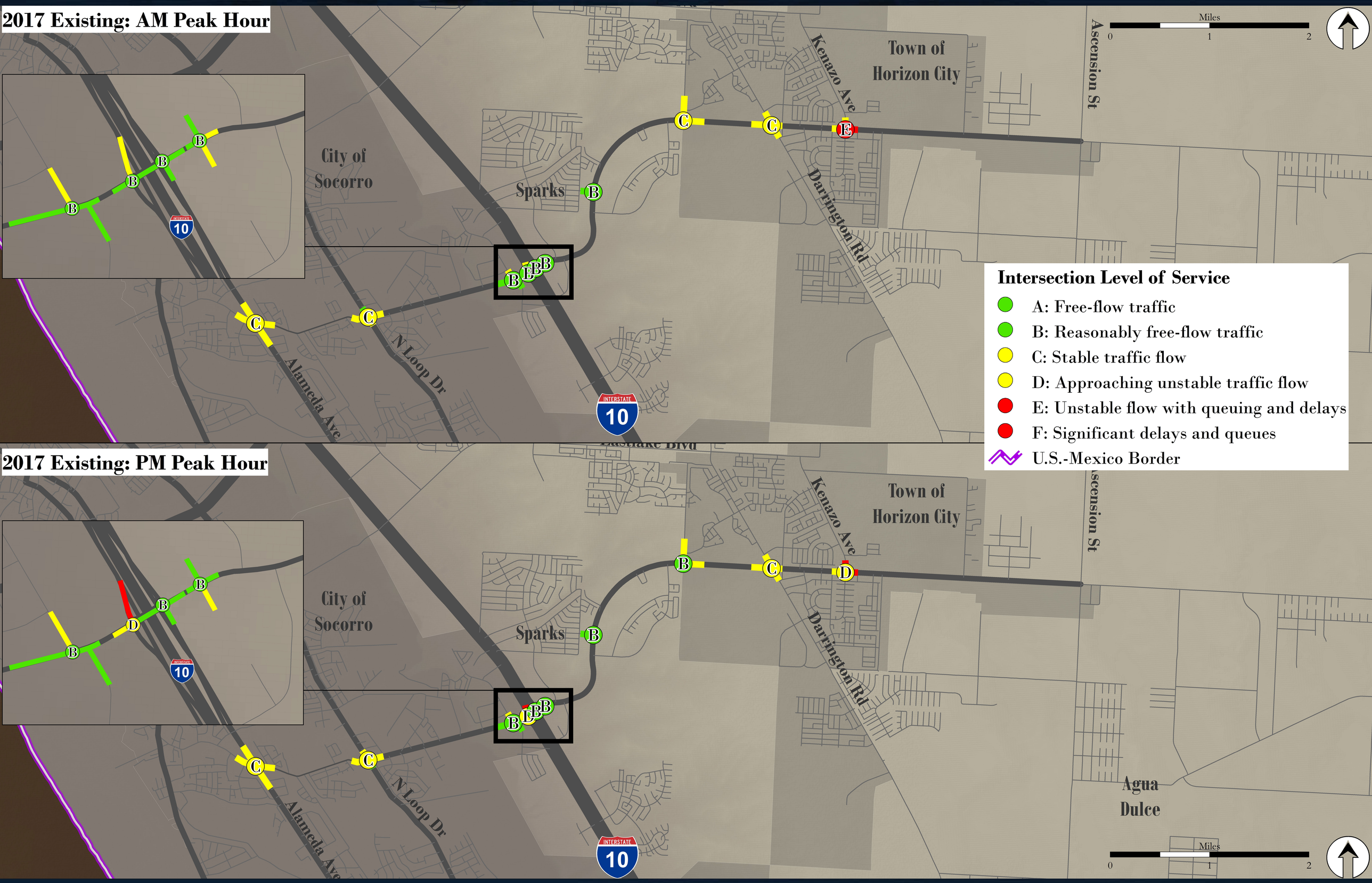
HORIZON BOULEVARD DRAINAGE ANALYSIS

Texas Department of Transportation

HORIZON BLVD CORRIDOR STUDY — FM 1281



TRAFFIC CONDITIONS: EXISTING (2017)



TRAFFIC CONDITIONS: FUTURE NO-BUILD (2040)

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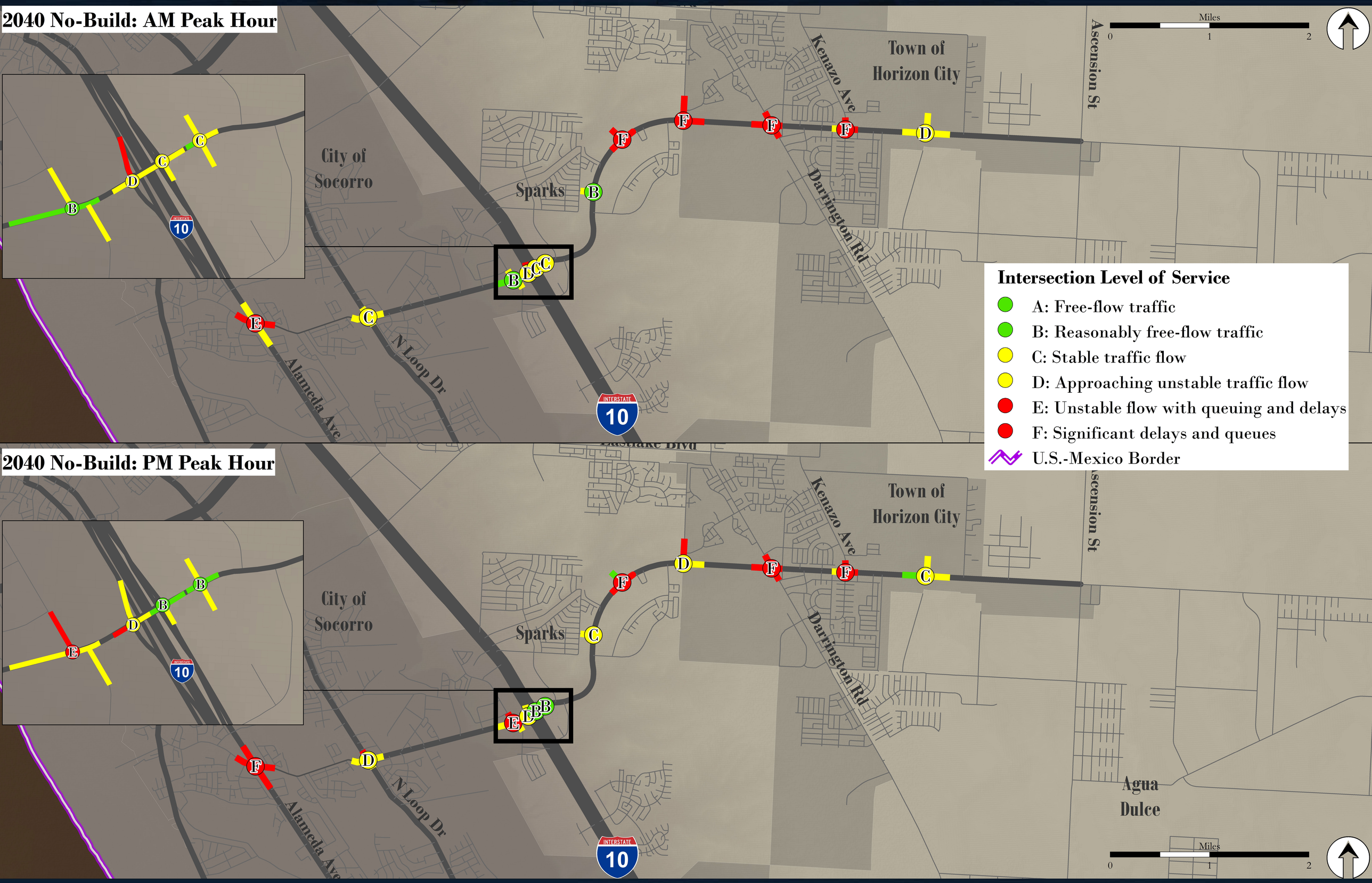
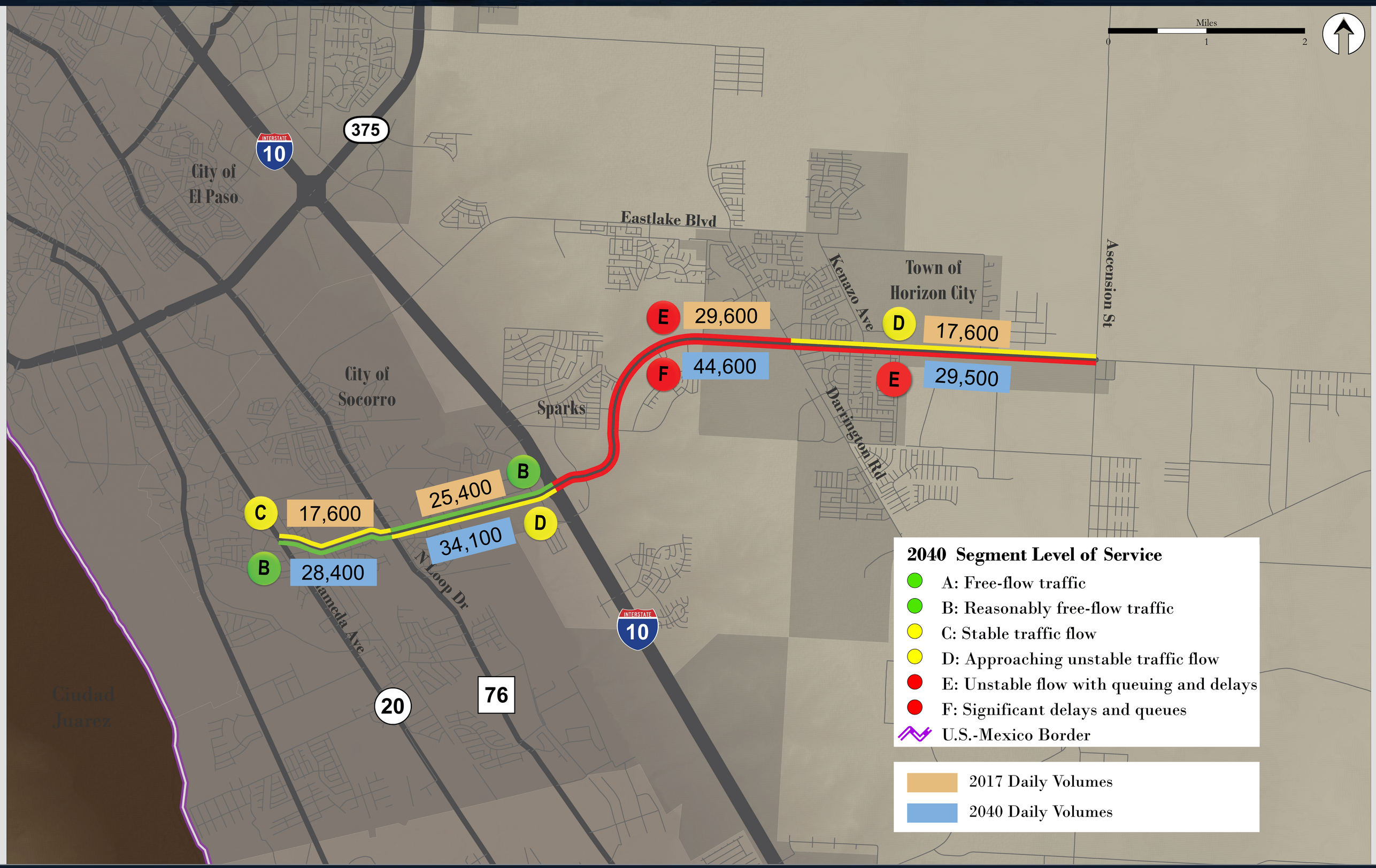
HORIZON BLVD CORRIDOR STUDY — FM 1281

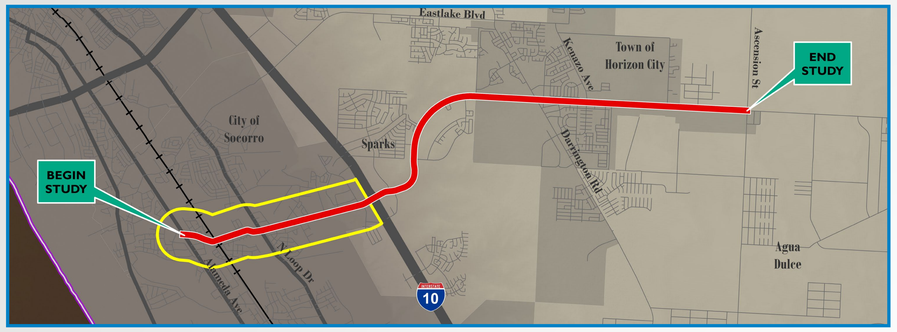


2017 & 2040 DAILY VOLUMES AND 2040 NO-BUILD SEGMENT LEVEL OF SERVICE

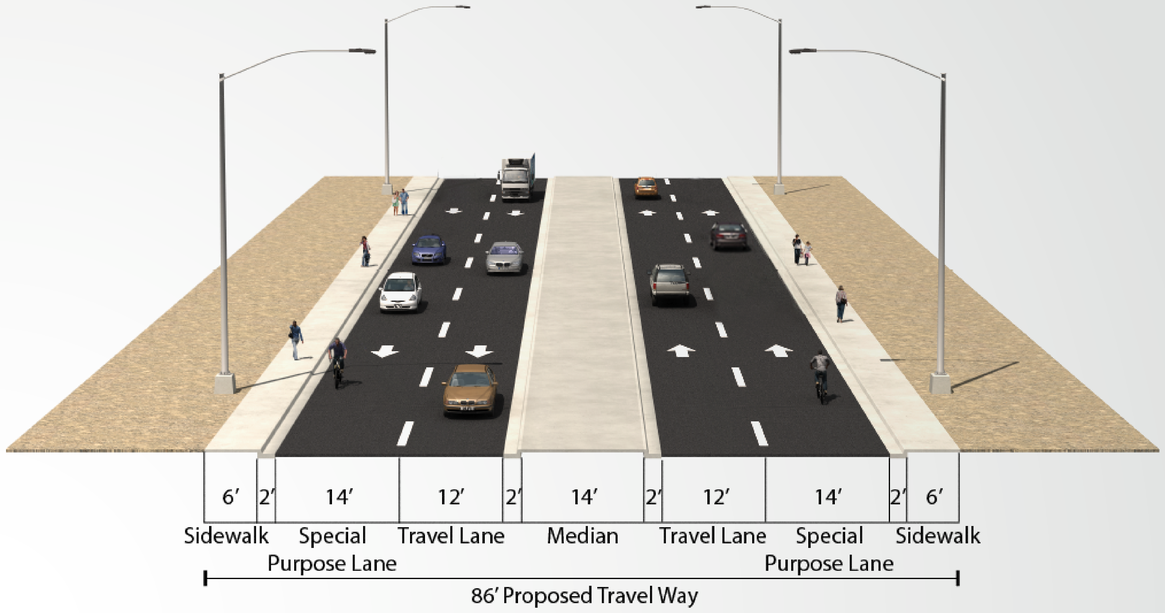


ALTERNATIVES SOUTH OF I-10 - FOUR LANE DIVIDED

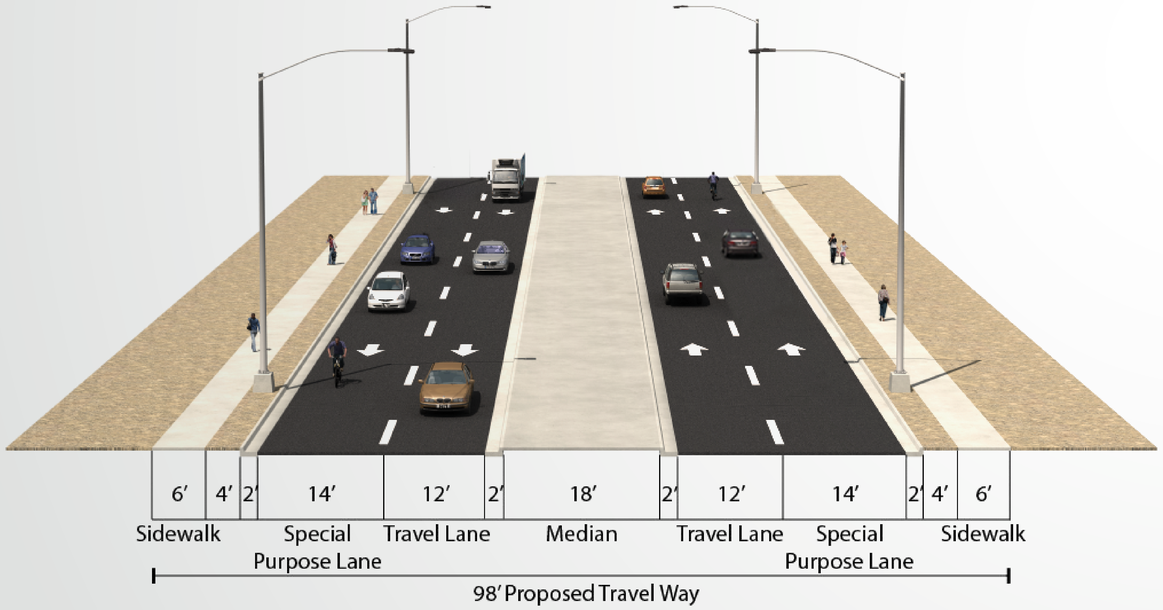
Southern Section - Alameda Ave to I-10



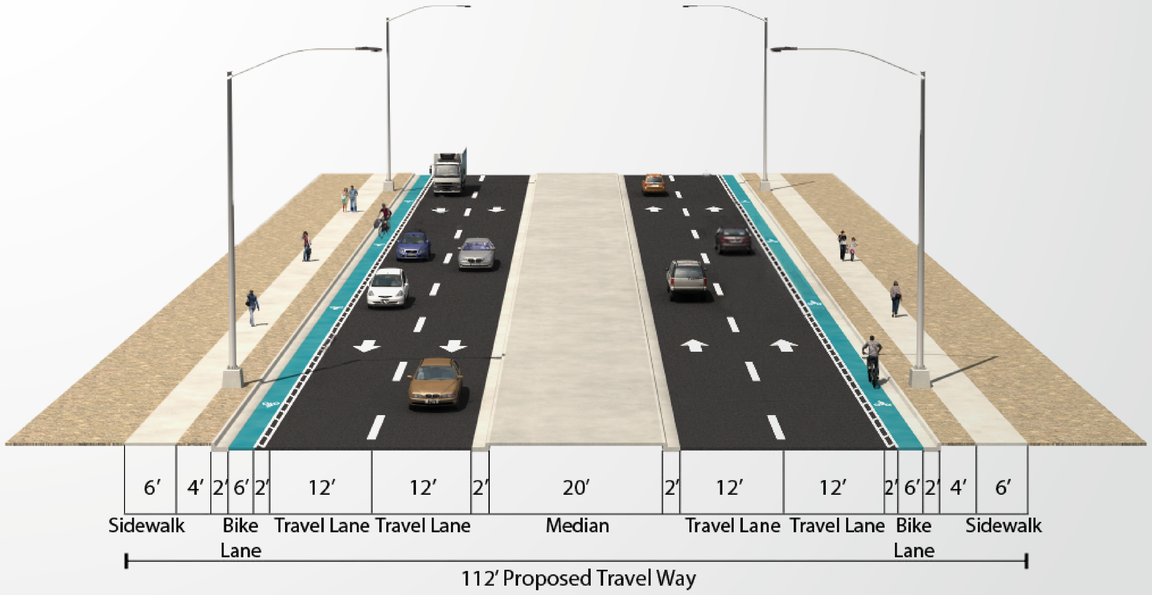
ALTERNATIVE A



ALTERNATIVE B

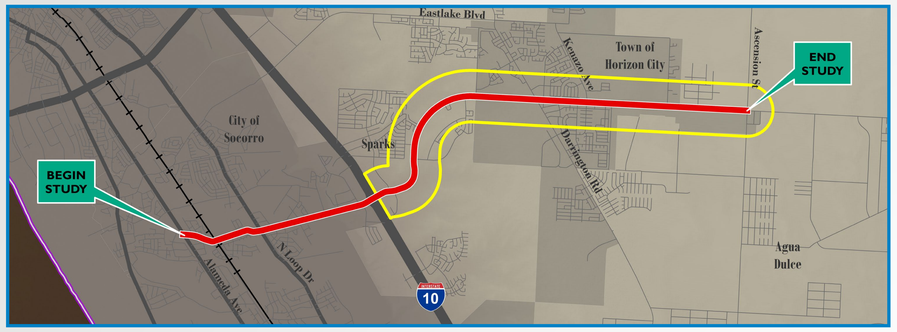


ALTERNATIVE C

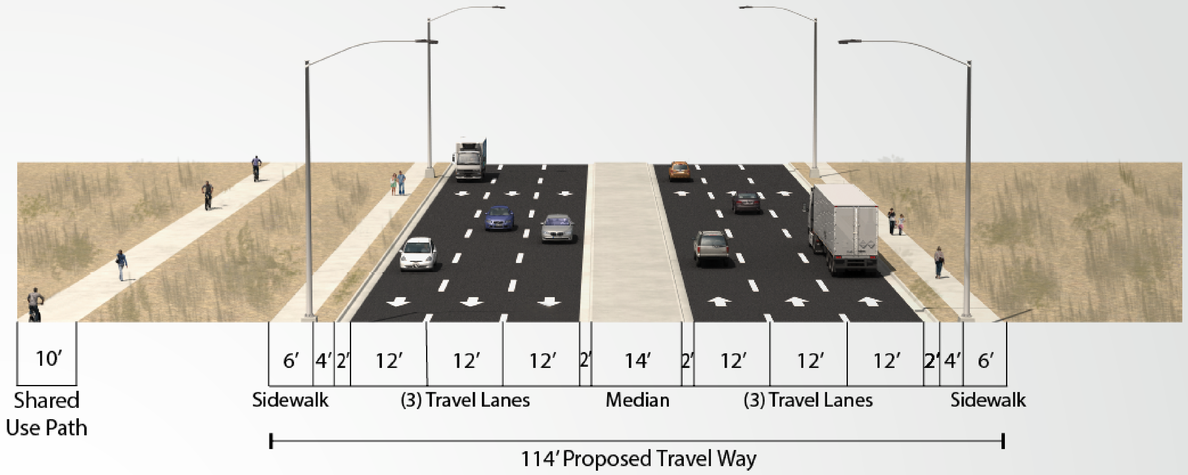


ALTERNATIVES NORTH OF I-10 - SIX LANE DIVIDED

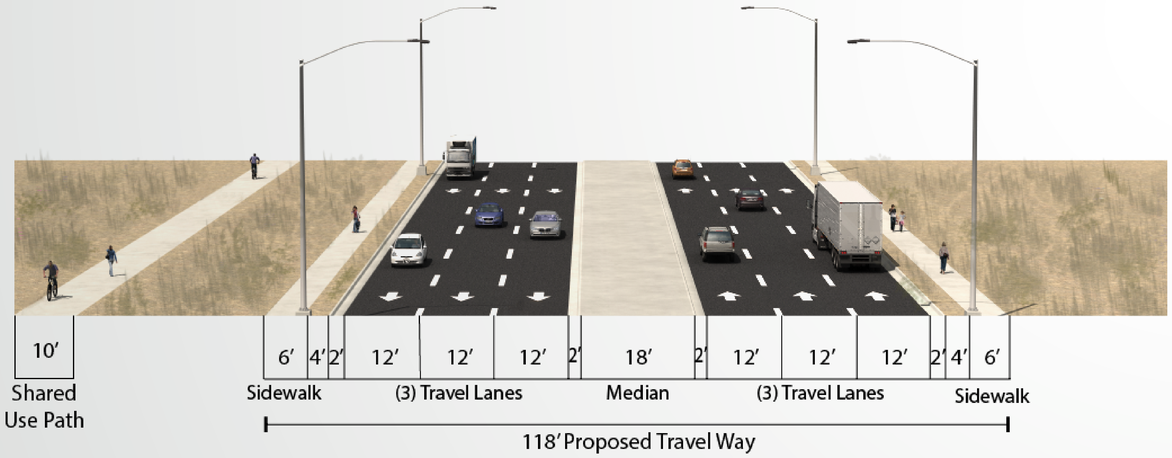
Northern Section - I-10 to Ascension St



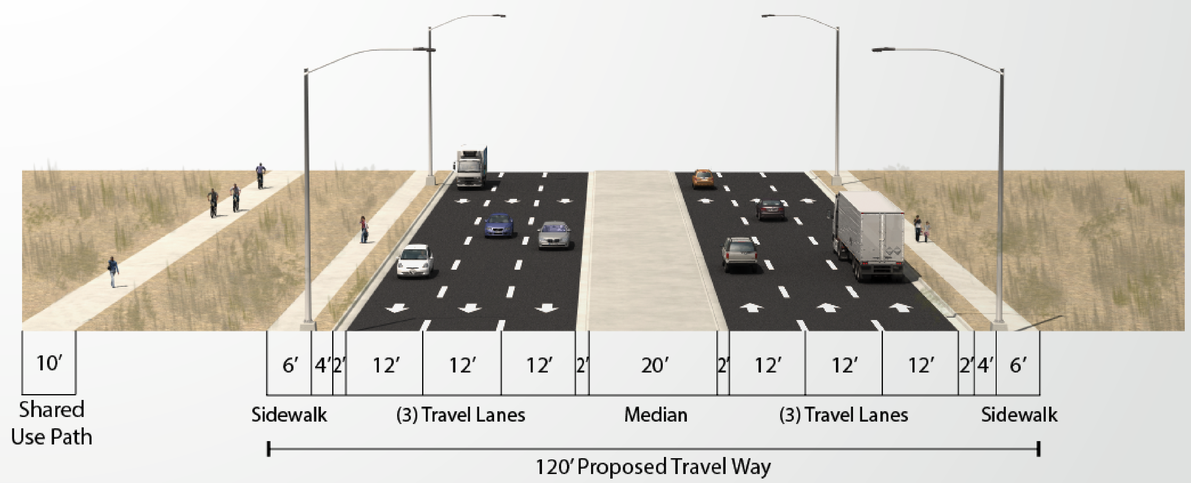
ALTERNATIVE A



ALTERNATIVE B



ALTERNATIVE C



CORRIDOR CONCEPTUAL ALTERNATIVES - OVERVIEW

	South of I-10			North of I-10		
	Alternative A	Alternative B	Alternative C	Alternative A	Alternative B	Alternative C
Number of Lanes	4	4	4	6	6	6
Intersection Improvements	✓	✓	✓	✓	✓	✓
Access Management	✓	✓	✓	✓	✓	✓
Sidewalks/Crosswalks	✓	✓	✓	✓	✓	✓
Bus Shelters/ Lighting	✓	✓	✓	✓	✓	✓
Median Width	14′	18′	20′	14′	18′	20′
Bicycle Accommodation	14' special purpose lane		6' bike lane	10′ shared use path on SB		
Pedestrian Accommodation	6′ sidewalks on both sides			6′ sidewalks on both sides		
Landscape Buffer	0′ buffer	4′ buffer between sidewalk & curb		4′ buffer between sidewalk & curb		
Right of Way Impacts	ROW required	ROW required	ROW required	No ROW required	No ROW required	No ROW required

EVALUATION CRITERIA & COMPARISON OF ALTERNATIVES

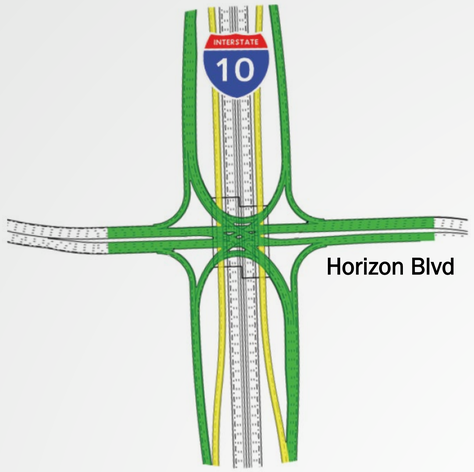
STUDY GOALS	Southern Section – Alameda Ave to I-10			Northern Section – I-10 to Ascension St		
	Alternative A	Alternative B	Alternative C	Alternative A	Alternative B	Alternative C
RELIABLE MOBILITY Improve traffic flow and reduce travel time and delay	Good	Good	Good	Good	Good	Good
SAFETY Improve safety for all modes of transportation (vehicle, pedestrian, bicycle, transit, freight, etc.)	Good	Very Good	Very Good	Good	Very Good	Very Good
DRAINAGE Improve drainage along Horizon Boulevard	Good	Good	Good	Good	Good	Good
MULTIMODAL CONNECTIVITY Efficient connections between all modes of transportation including vehicles, bicycles, transit, freight, and pedestrians	Good	Good	Very Good	Very Good	Very Good	Very Good
GATEWAY TO COMMUNITY Opportunity for attractive streetscape that reflects the community's identity and establishes a sense of place	Fair	Good	Very Good	Good	Good	Very Good
ECONOMIC DEVELOPMENT Promote new development and economic activity	Good	Good	Good	Good	Good	Good
STATE OF GOOD REPAIR Maintain or improve corridor transportation infrastructure	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
HEALTH IMPACTS Reduce environmental impacts & improve health outcomes	Good	Good	Very Good	Good	Good	Good
RIGHT OF WAY Additional required space to accommodate the alternatives	Good	Fair	Fair	Very Good	Very Good	Very Good

Fair Good Very Good

RECOMMENDED CONCEPTS - LONG TERM

I-10 - Alternative Concepts

Single Point Urban Interchange

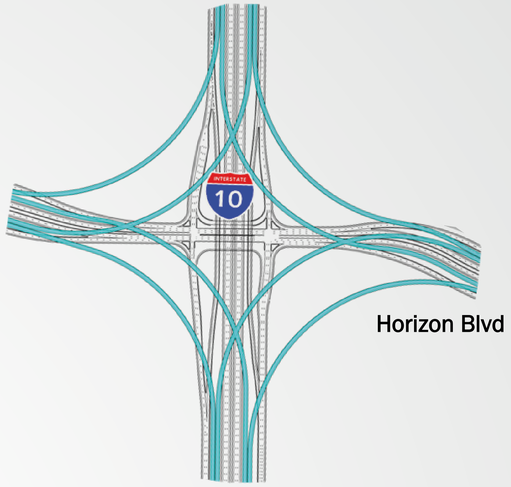


Single Point Urban Interchange		
	2040 No-build	2040 Build
AM (LOS)	D	E
PM (LOS)	D	D
Cost		$$$
ROW Impacts		Medium
Conflicts		24

Diverging Diamond Interchange

Diverging Diamond Interchange		
	2040 No-build	2040 Build
AM (LOS)	D	B
PM (LOS)	D	C
Cost		$$$
ROW Impacts		Low
Conflicts		14

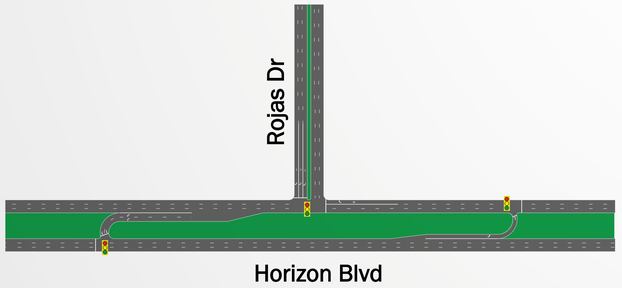
Direct Connectors



Direct Connectors		
	2040 No-build	2040 Build
AM (LOS)	D	A
PM (LOS)	D	A
Cost		$$$$$
ROW Impacts		Very High
Conflicts		26

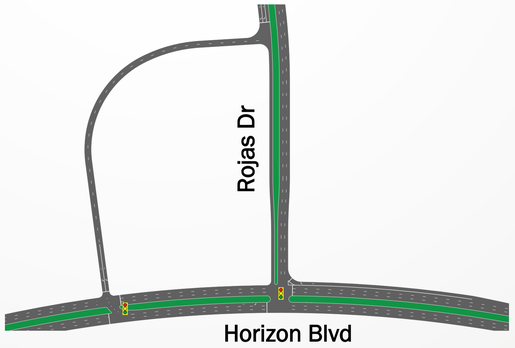
Rojas Dr - Alternative Concepts

Median U-Turn Intersection



Median U-Turn Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	F	B
Cost		$$
ROW Impacts		Medium
Conflicts		6

Quadrant Intersection



Quadrant Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	B
PM (LOS)	F	B
Cost		$$$$
ROW Impacts		High
Conflicts		28

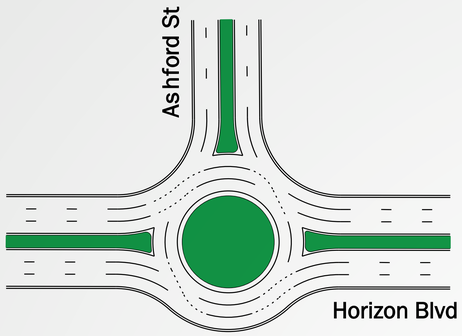
Continuous Green T- Intersection

Continuous Green T-Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	F	B
Cost		$$
ROW Impacts		Medium
Conflicts		9

RECOMMENDED CONCEPTS - LONG TERM

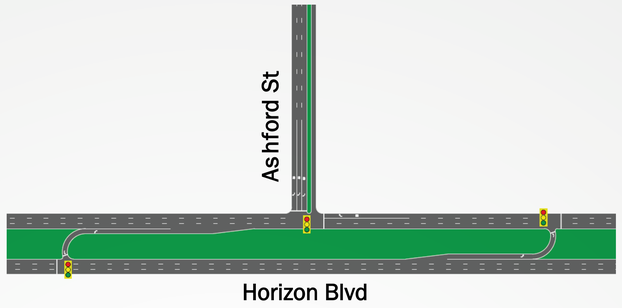
Ashford St - Alternative Concepts

Roundabout



Roundabout		
	2040 No-build	2040 Build
AM (LOS)	F	B
PM (LOS)	D	C
Cost		$$$$
ROW Impacts		Low
Conflicts		8

Median U-Turn Intersection



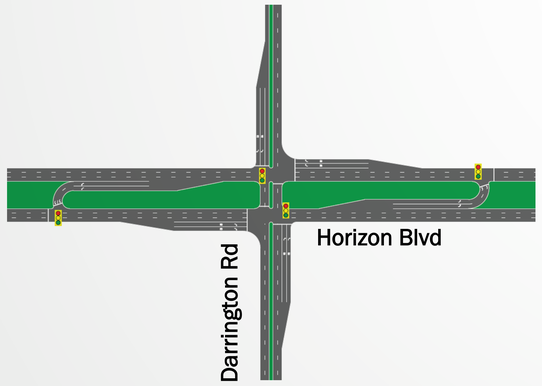
Median U-Turn Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	D	C
Cost		$$
ROW Impacts		Low
Conflicts		6

Continuous Green T-Intersection

Continuous Green T-Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	D	C
Cost		$$
ROW Impacts		Low
Conflicts		9

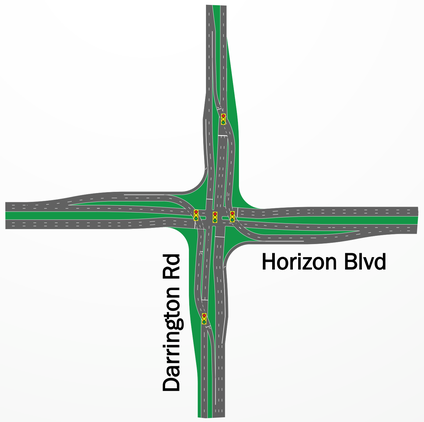
Darrington Rd – Alternative Concepts

Median U-Turn Intersection



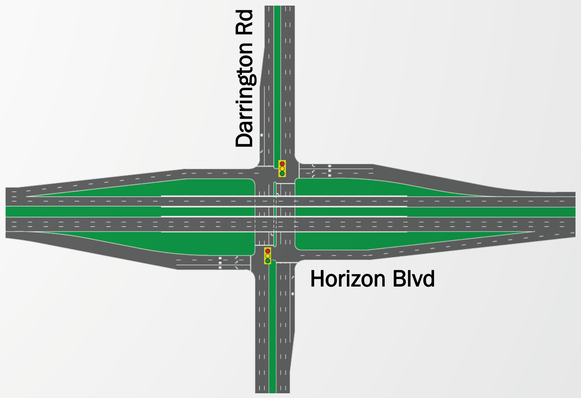
Median U-Turn Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	F	C
Cost		$$
ROW Impacts		Medium
Conflicts		16

Continuous Flow Intersection



Continuous Flow Intersection		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	F	C
Cost		$$$$
ROW Impacts		High
Conflicts		30

Horizon Overpass



Horizon Overpass		
	2040 No-build	2040 Build
AM (LOS)	F	C
PM (LOS)	F	C
Cost		$$$$
ROW Impacts		High
Conflicts		26

PROPOSED CONCEPTUAL SHORT-TERM IMPROVEMENTS

CORRIDOR

Pedestrian, Bicycle and Transit

- Upgrade crosswalks to meet Americans with Disabilities Act (ADA) standards
- Provide sidewalk connectivity from Rifton Ct to Ascension St and from I-10 to Ashford St
- Install pedestrian hybrid beacon for midblock crossing at Horn Cir
- Provide bus stop shelters and bus route signs

Intelligent Transportation Systems (ITS)

- Upgrade traffic signals for emergency response
- Install fiber optic cables and pull boxes for improved communications

Access Management

- Access management along the corridor between I-10 and N Loop Dr
- Improve driveway spacing and median opening locations

Others

- Street lighting and pavement marking upgrades; chevron signs on curves
- Artistic street name signs and signal equipment for community identity
- Conduct speed studies to ensure correctness of posted speed limit along the corridor

INTERSECTIONS

- Optimize traffic signal timing at Alameda Ave
- Improve turn lanes and optimize signal timing at Kenazo Ave
- Convert Ascension St intersection to all-way stop control

PROPOSED CONCEPTUAL MID-TERM IMPROVEMENTS

CORRIDOR

Pedestrian, Bicycle and Transit

- Provide wider sidewalks from Alameda Ave to I-10
- Provide special purpose lanes for bicycles from Alameda Ave to I-10

Rail Road Crossing Improvements

- Provide gates for pedestrian crossing on both directions

INTERSECTIONS

- Improve roadway alignment at Horizon Blvd/ Stockyard Dr/ Nancy Dr intersection
- Realign southbound Kenazo Ave to eliminate offset design
- Realign Ascension St approaches at Horizon Blvd intersection
- Provide turn lanes and signal optimization at Alameda Ave, North Loop Dr, Stockyard Dr, Love's Driveway, Kenazo Ave and Eastlake Blvd intersections
- Install signals at Peyton Rd, Rifton Ct and Ascension St

PROPOSED CONCEPTUAL LONG-TERM IMPROVEMENTS

CORRIDOR

Pedestrian, Bicycle and Transit

- Provide wider sidewalks and shared use path from I-10 to Ascension St
- Provide bicycle lane from Alameda Ave to I-10

Intelligent Transportation Systems (ITS)

- Complete connection to TransVista traffic management center

Drainage Improvements

- Develop recommendations to match proposed alternatives

Access Management

- Access management along the corridor from I-10 to Ascension St
- Improve driveway spacing and median opening locations

Rail Road Crossing Improvements

- Provide an overpass at the Rail Road crossing to improve emergency response

INTERSECTIONS

- Innovative interchange design at I-10 interchange
- Innovative intersection design at Rojas Dr, Ashford St and Darrington Rd

COMMENTS

Submit Comments Today

- Provide comments via video
- Complete the survey using our laptop computers
- Provide your written comments

COMMENTS

Submit Comments Later

Email: **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

915-790-4392

Thelma.Ramirez@txdot.gov

Website: For more information visit **www.txdot.gov**, keyword "Horizon Corridor" or visit **www.HorizonFM1281.com**

*All comments must be submitted or postmarked by **02/15/2019** to be part of the official record of the Public Meeting*

HORIZON BLVD
CORRIDOR STUDY — FM 1281

Thank You

Texas Department of Transportation