



Border Crossing Travel Time Analysis

2008 Border to Border

Transportation Conference

November 20, 2008

by

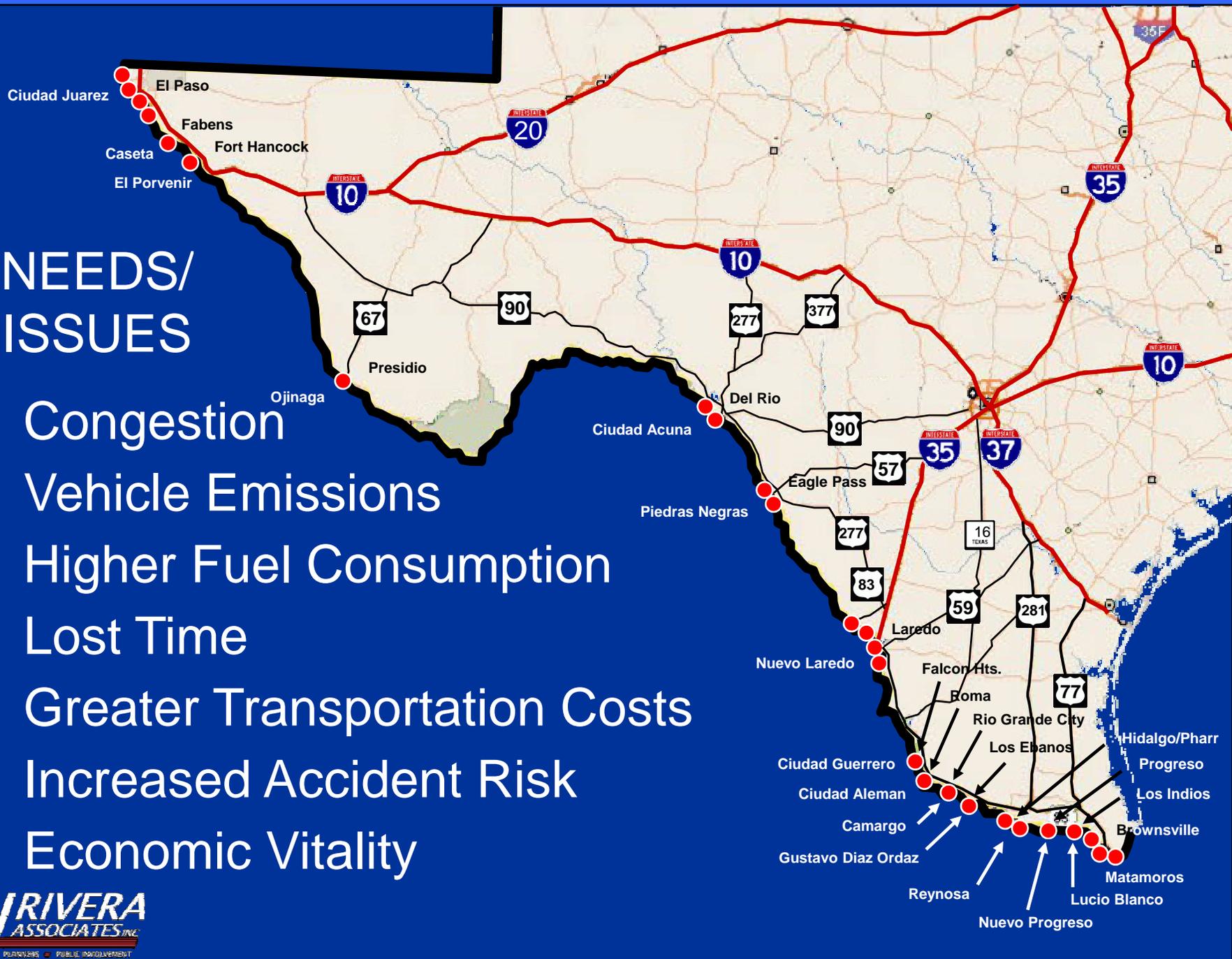
RJ RIVERA Associates, Inc.

NEEDS/ ISSUES

- Congestion
- Vehicle Emissions
- Higher Fuel Consumption
- Lost Time
- Greater Transportation Costs
- Increased Accident Risk
- Economic Vitality

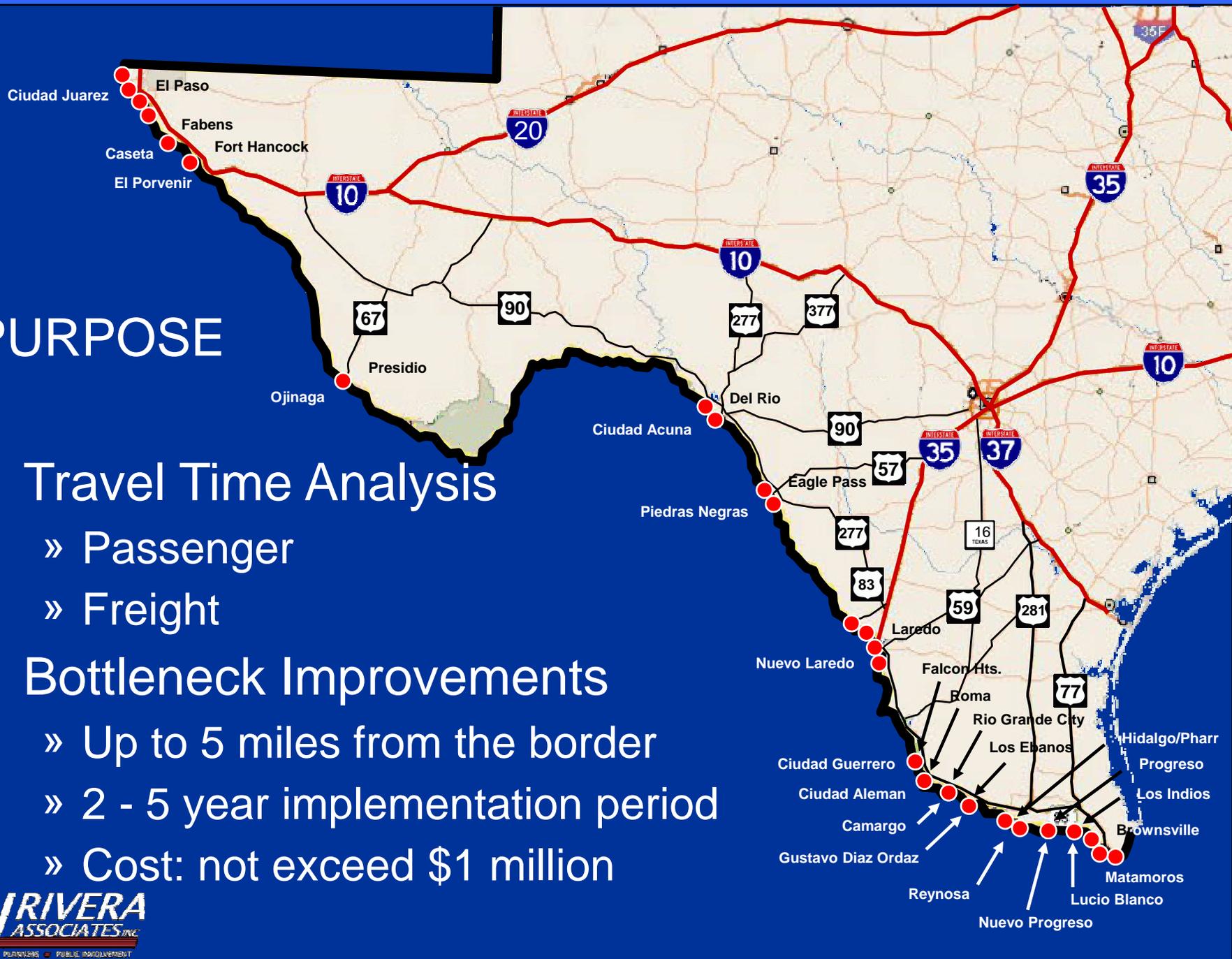
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ENGINEERING PLANNING PUBLIC INVOLVEMENT



PURPOSE

- Travel Time Analysis
 - » Passenger
 - » Freight
- Bottleneck Improvements
 - » Up to 5 miles from the border
 - » 2 - 5 year implementation period
 - » Cost: not exceed \$1 million



PROJECT APPROACH



Notice to Proceed
 Draft PMP Submittal, including Refined Schedule based on NTP
 TxDOT/TPP Team Kick-off, including Distribution of Final PMP

Initial Data Collection & Study Team Field Reconnaissance

Preliminary study area, needs, constraints identification
 Proposed data collection and analysis schedule
 Additional data needs
 Other District- or crossing-specific issues

Regional Technical Work Group #1

Additional Data Collection
Individual Stakeholder Meetings
Analysis
Initial Options Screening and Preliminary Recommendations

Regional Technical Work Group #2

Refined Recommendations
Implementation Plan: Partners Identification
Financial Plan

Study Report

Initial Stakeholder Outreach
 Identify Stakeholders
 First Tier (Transportation-Specific)
 Second Tier (Needs Groups)
 Regional Technical Work Group #1
 Invitation & Coordination
 Study FAQ

Continued Stakeholder Outreach
 Media Release
 Email Updates
 Website
 Study Hotline
 Individual SH Mtg Coordination

Continued Stakeholder Outreach
 Regional Technical Workgroup #2
 Invitation & Coordination
 Individual SH Mtg Coordination
 Continues
 Website and Study Hotline
 Maintenance Continues

STAKEHOLDER PART

- TxDOT ELP, LRD, PHR Districts / TPP / I
- MPOs
- Cities
- Counties
- Transit Authorities
- IBWC
- FHWA
- GSA
- Homeland Security
- Customs and Border Protection
- Texas DPS
- Local Emergency Providers
- Bridge Operators
- Trucking Interests
- Chambers of Commerce
- Other Special Interest Groups



ANALYSIS PROCESS



- Development of Constraints Maps for each bridge
- Screening Process
 - Mobility
 - Safety
 - Economy
 - Environment
 - Security
 - Design
 - Cost Effectiveness
- Input RTWG

NEEDS / RECOMMENDATIONS



I. Universe of Alternatives

- >130 alternatives
- New POEs
- Additional lanes on existing POE
- Improvements within GSA facilities
- Coordination between Mexico/US times of operations
- Major interchange re-configurations

II. Recommendations

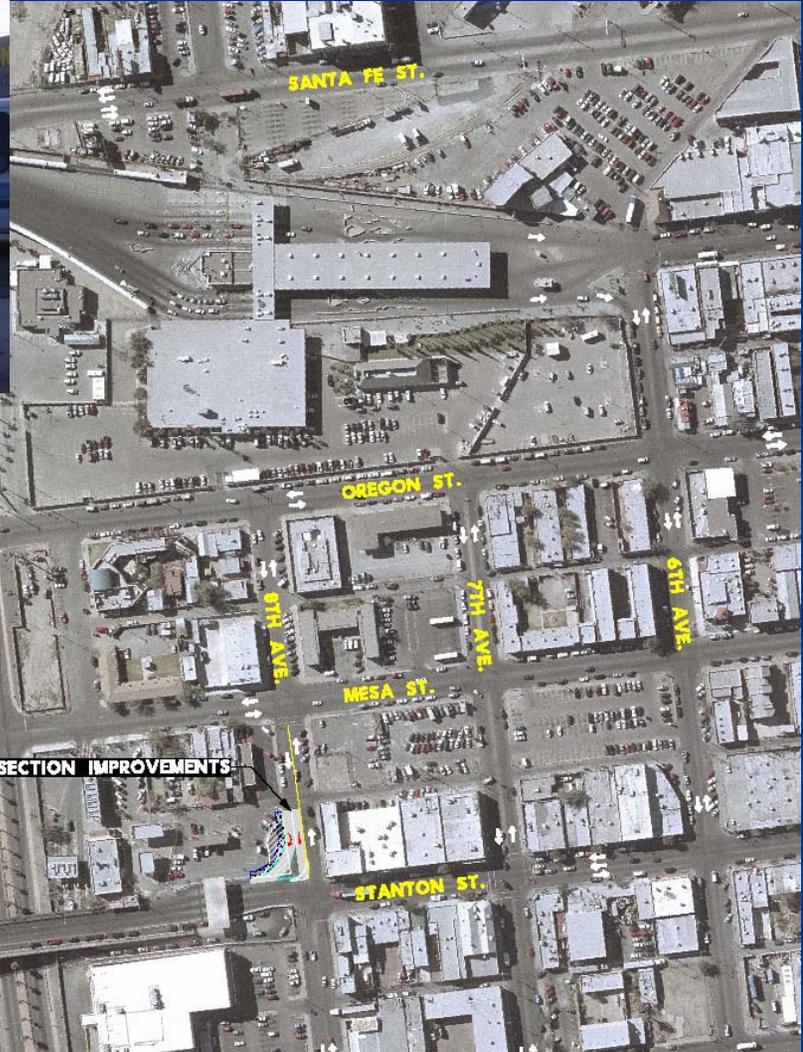
- 89 alternatives
- \$13.3 M

RECOMMENDATIONS



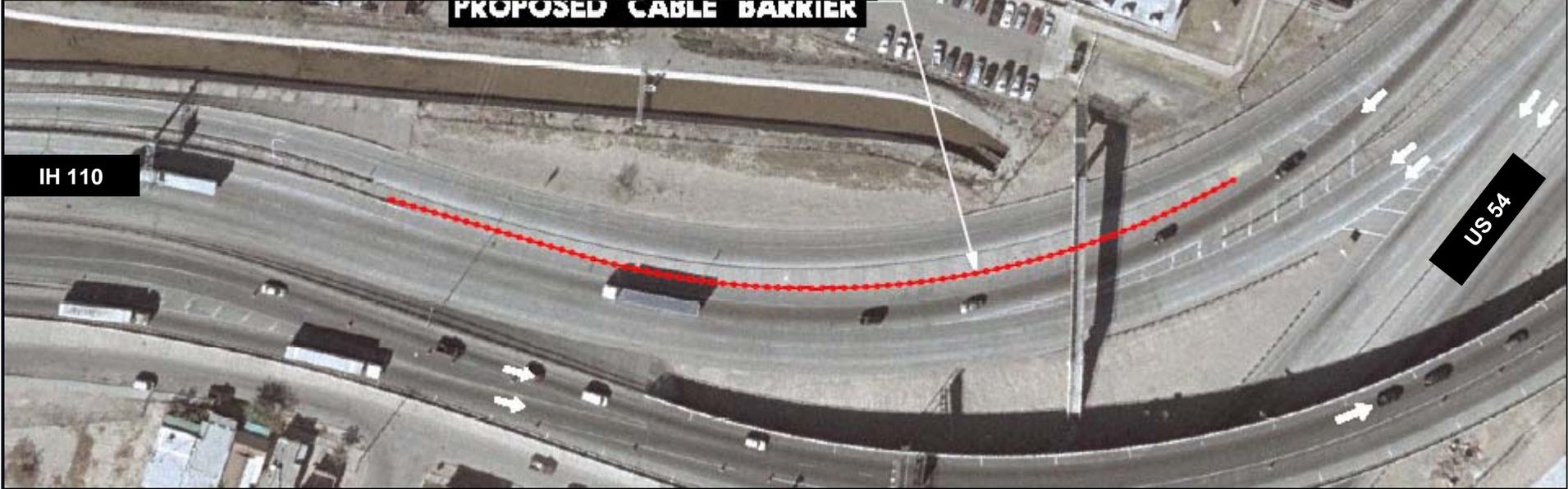
- Signing / Striping
- ITS
- Signal timing
- Flashing beacons
- Intersection improvements
- Geometric improvements
- Additional lanes
- Safety improvements
- Driver expectancy
- Removing on-street parking
- Converting 2-way to 1-way couplets
- Entrance / Exit BSIF
- Rumble strips
- Staging / parking areas
- Closing city streets
- Pedestrian improvements
- Drop off / pick up areas
- Pedestrian mall
- Sidewalks
- Driveways

Good Neighbor Bridge El Paso, Texas





Americas exas



IH 110

US 54

PROPOSED CABLE BARRIER

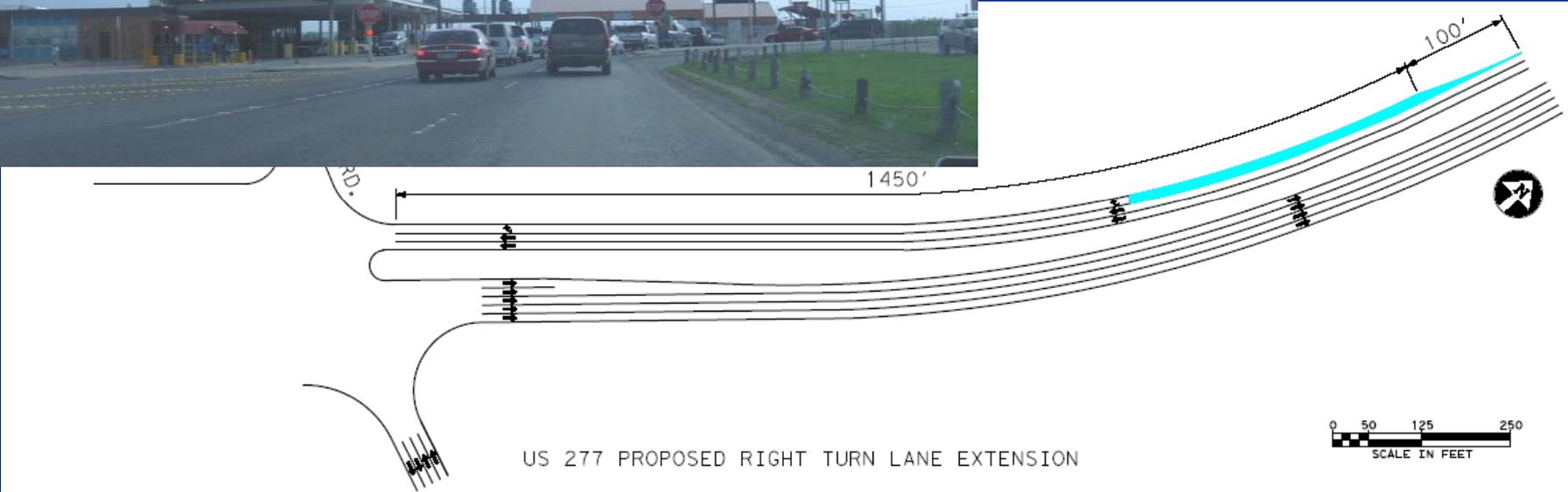
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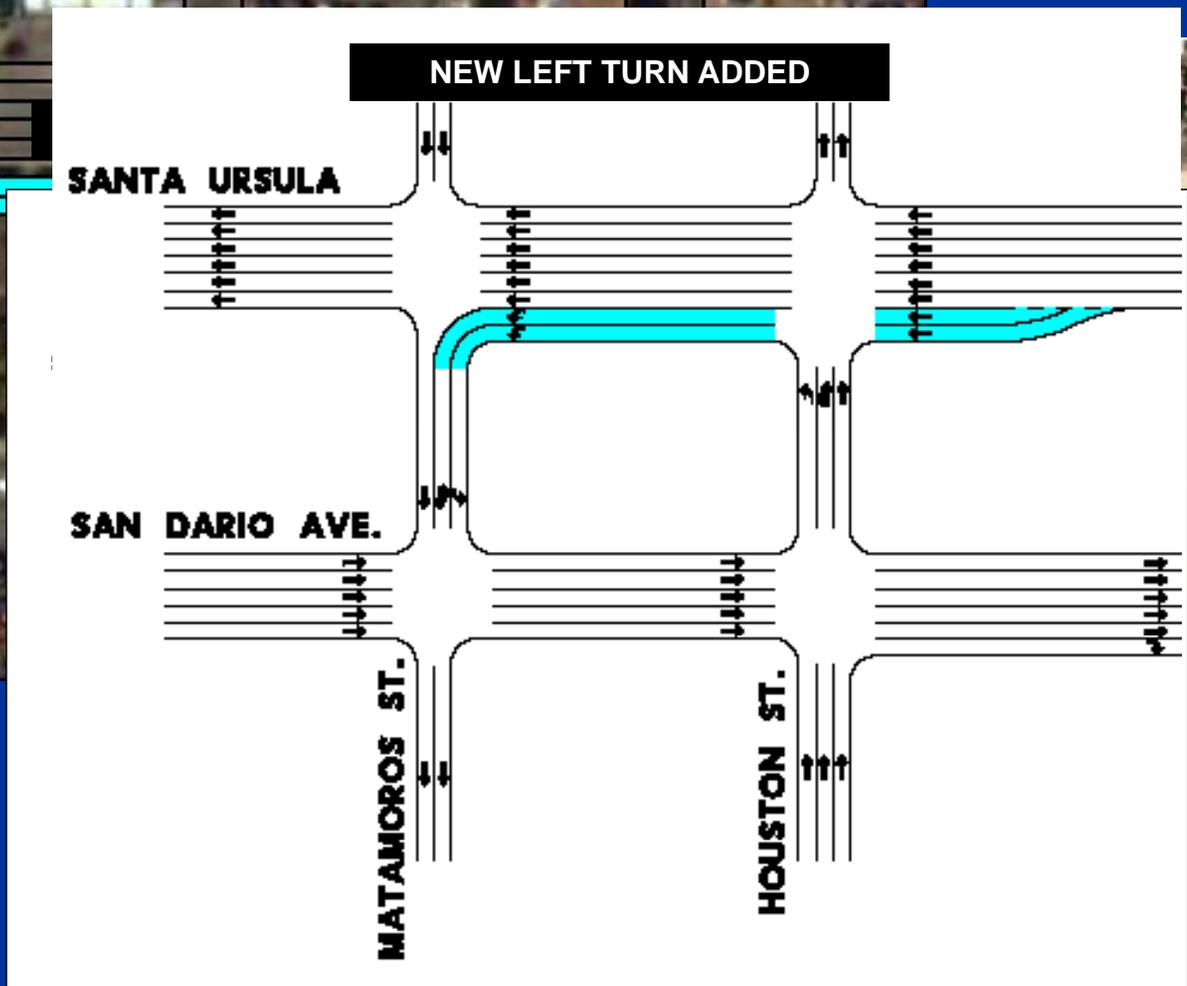
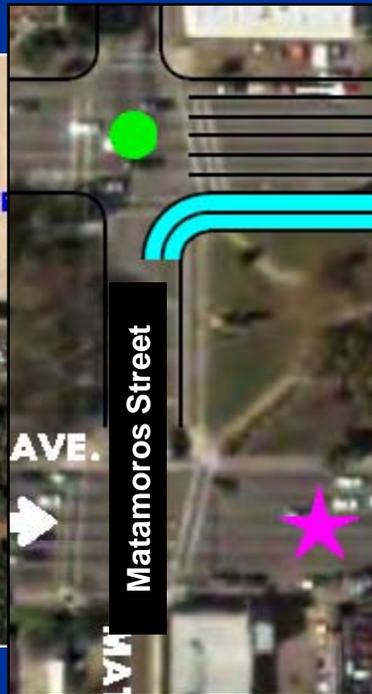
Bridge as



Del Rio Bridge



Juárez-Lincoln Bridge Laredo, Texas



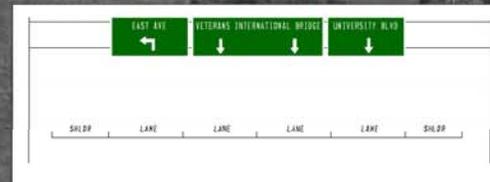
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Pharr – Reynosa Crossing



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FUNDING / IMPLEMENTATION



I. Funding

- Federal Funds - SAFETEA-LU
- TxDOT
- GSA
- Local Partners

II. Implementation

- Current design projects
- Maintenance
- Local Partners

SUMMARY OF PHARR RECOMMENDATIONS



Final report included:

- A total of 44 alternatives for the 11 crossings in the TxDOT district.
- Alternatives included both construction, maintenance and operational type improvements.
- TxDOT has reviewed alternatives and is considering adding some to planned roadway project.