



DONIPHAN DRIVE CORRIDOR PLAN

From the TX/NM State Line to Racetrack Drive

CSJ: 0001-01-060

IBWC Quarterly Meeting – January 11, 2018

Technically Preferred Alternative & Short-, Medium- and Long-term Projects



STUDY LOCATION MAP





PURPOSE OF STUDY & STUDY TIMELINE

Purpose of the Doniphan Drive Corridor Plan

Create a corridor plan that will document the community's future vision in regard to transportation and development for Doniphan Drive beginning in 2016 through 2040. One of the results of this process will be the identification of a set of improvements for short-, medium- and long-term implementation.





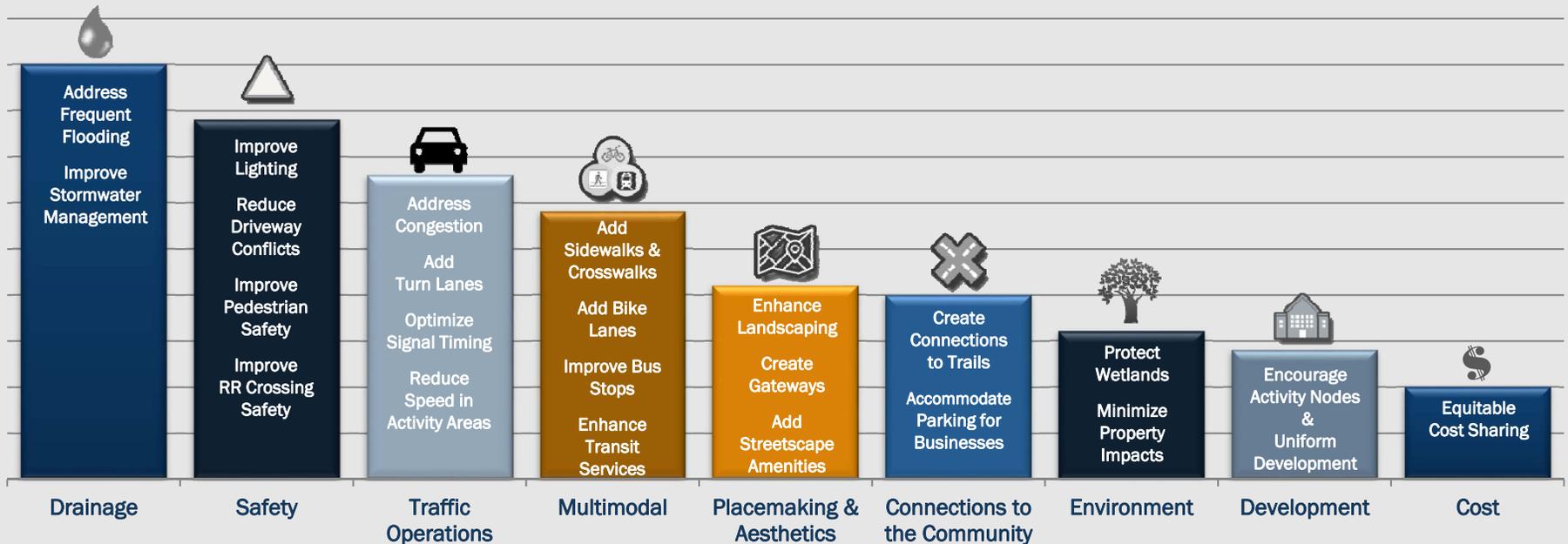
PUBLIC MEETING SERIES #1 – NEEDS AND CHALLENGES

SEPTEMBER 2016

PURPOSE OF PUBLIC MEETING SERIES #1:

- Introduce the Doniphan Drive Corridor Plan
- Present/gather feedback on known needs and challenges gathered through agency coordination & data collection/analysis
- Present/gather feedback on the draft criteria to be used to evaluate possible solutions
- Present/gather feedback on possible solutions

WHAT WE HEARD:



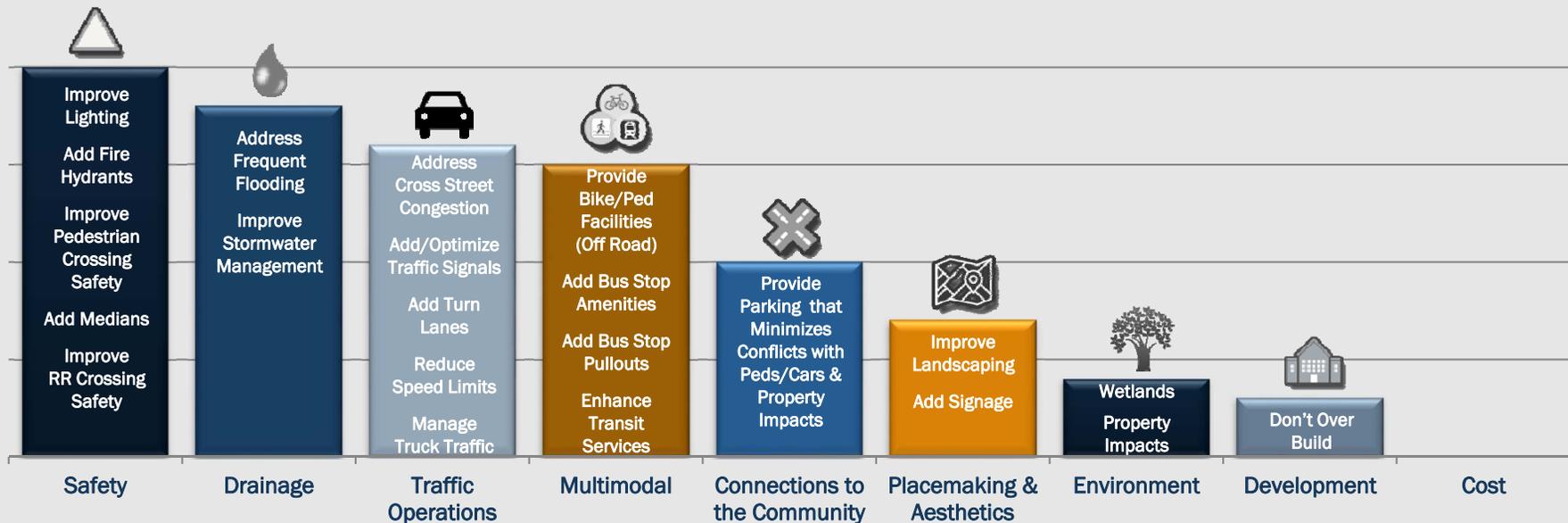


PUBLIC MEETING SERIES #2 – CONCEPTUAL DESIGN ALTERNATIVES SEPTEMBER 2017

PURPOSE OF PUBLIC MEETING SERIES #2:

- Reintroduce the Doniphan Drive Corridor Plan
- Review the known needs and challenges
- Share feedback from Public Meeting Series #1
- Present/gather feedback on Conceptual Design Alternatives, Drainage Improvements & Urban Design Elements

WHAT WE HEARD:





DEVELOPMENT OF THE TECHNICALLY PREFERRED ALTERNATIVE

Step 1: Collect Existing Data and Define the Vision and Needs for the Corridor

STAKEHOLDER
FEEDBACK

Address frequent flooding by improving stormwater management

Enhance safety by adding lighting, providing access management and improving safety at railroad crossings

Address congestion at intersections by adding turn/accel/decel lanes, optimizing signal timing, realigning off-set intersections

Provide multimodal access by improving sidewalks/crosswalks/bike facilities and providing bus stop shelters/pullouts

Create a sense of place through landscaping, gateway markers and signage

Step 2: Develop, Evaluate and Screen Conceptual Design Alternatives

All conceptual design alternatives address the needs. Elements from each alternative can be mixed and matched based on local needs and preferences.

ALTERNATIVE A

Least amount of ROW/property impacts
Bicycles use shared use lane
Sidewalks (east/west)
Minimal buffer between sidewalk & curb
No parking

ALTERNATIVE B

Moderate amount of ROW/property impacts
Bicycles use shared use lane or SUP
Sidewalk (east), SUP (west)
Moderate buffer between sidewalk/SUP & curb
Parking at urban development nodes

ALTERNATIVE C

Highest amount of ROW/property impacts
Bicycles use bike lane or SUP
SUP (east/west)
Large buffer between SUP & curb
Parking at urban development nodes

STAKEHOLDER
FEEDBACK

Address the drainage, safety, traffic operations, multimodal and placemaking needs in the corridor while separating bicycle traffic from the roadway and minimizing impacts to properties/business parking.

Step 3: Develop a Draft Corridor Plan and Prioritize Projects

TECHNICALLY PREFERRED ALTERNATIVE

Minimal amount of ROW/property impacts
Bicycles use shared use lane or SUP
Sidewalk (east), SUP (west)
Varying buffer between sidewalk/SUP & curb
No parking

ROW = Right-of-Way
SUP = Shared Use Path

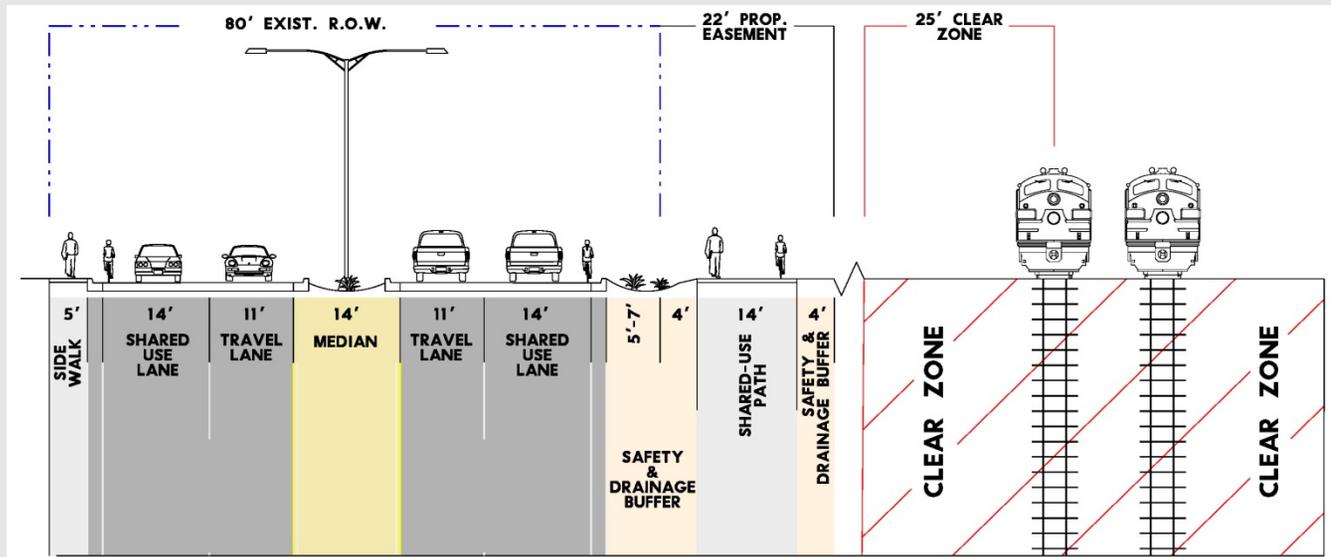


ROADWAY IMPROVEMENTS



4-LANE SECTION

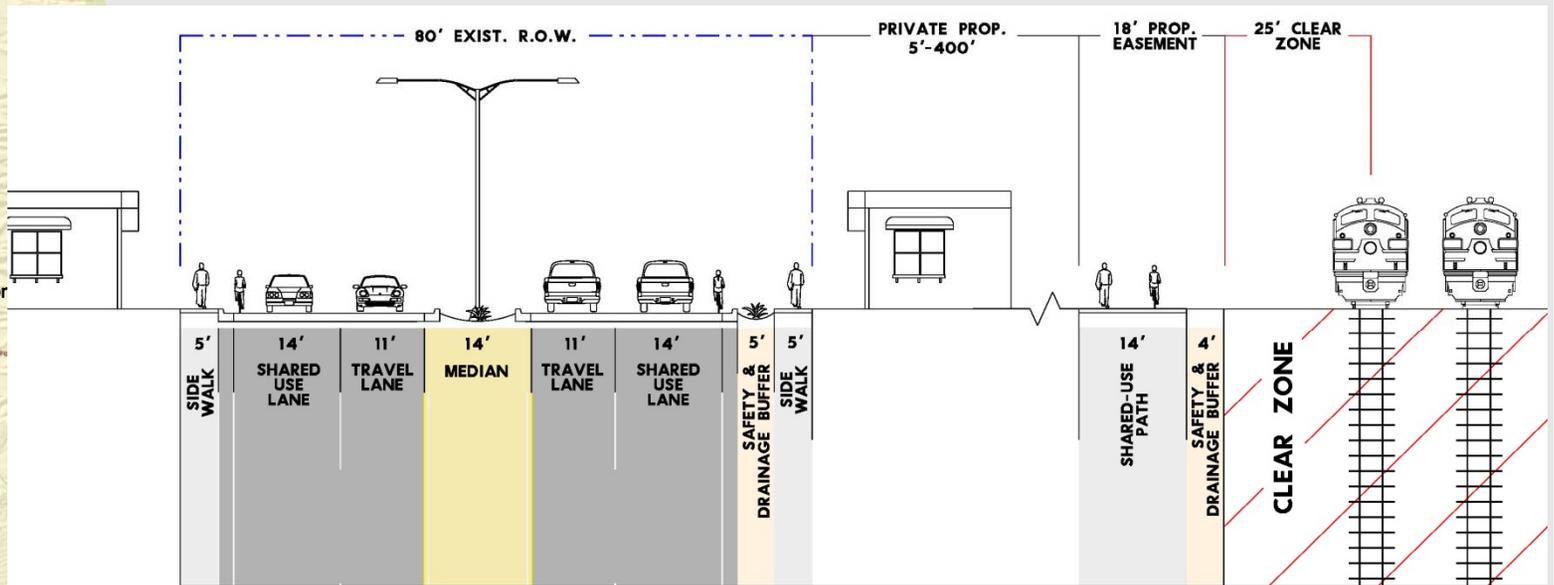
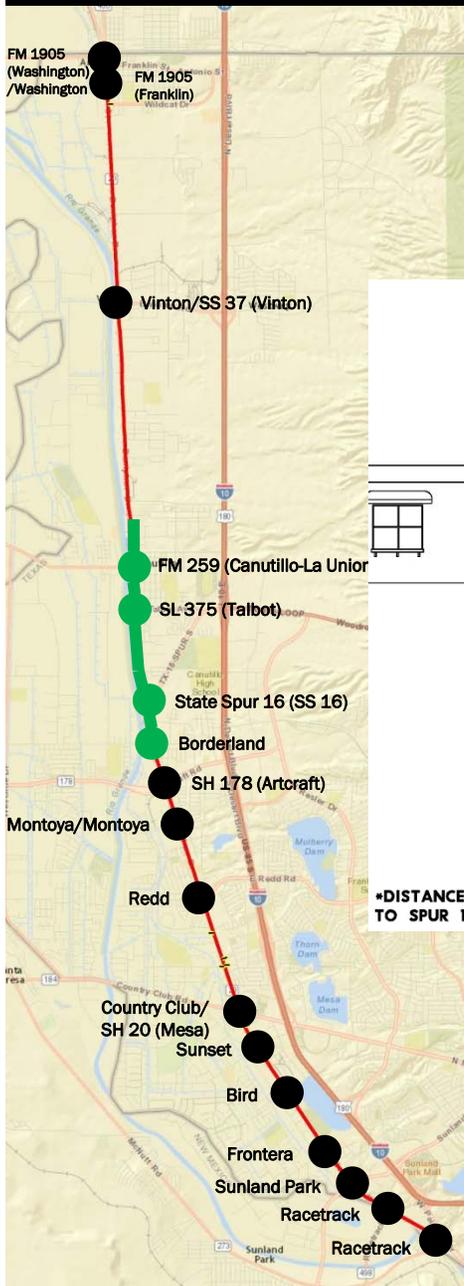
TEXAS/NEW MEXICO STATE LINE TO LOS MOCHIS DR; BORDERLAND RD TO REDD RD



*EXISTING R.O.W. LINE ON WEST SIDE OF SH20 INCREASES TO A MAXIMUM OF 30' FROM BACK OF CURB AT EDGAR RD AND 40' SOUTH OF SH178 (ARTCRAFT RD)



4-LANE SECTION LOS MOCHIS DR TO BORDERLAND RD

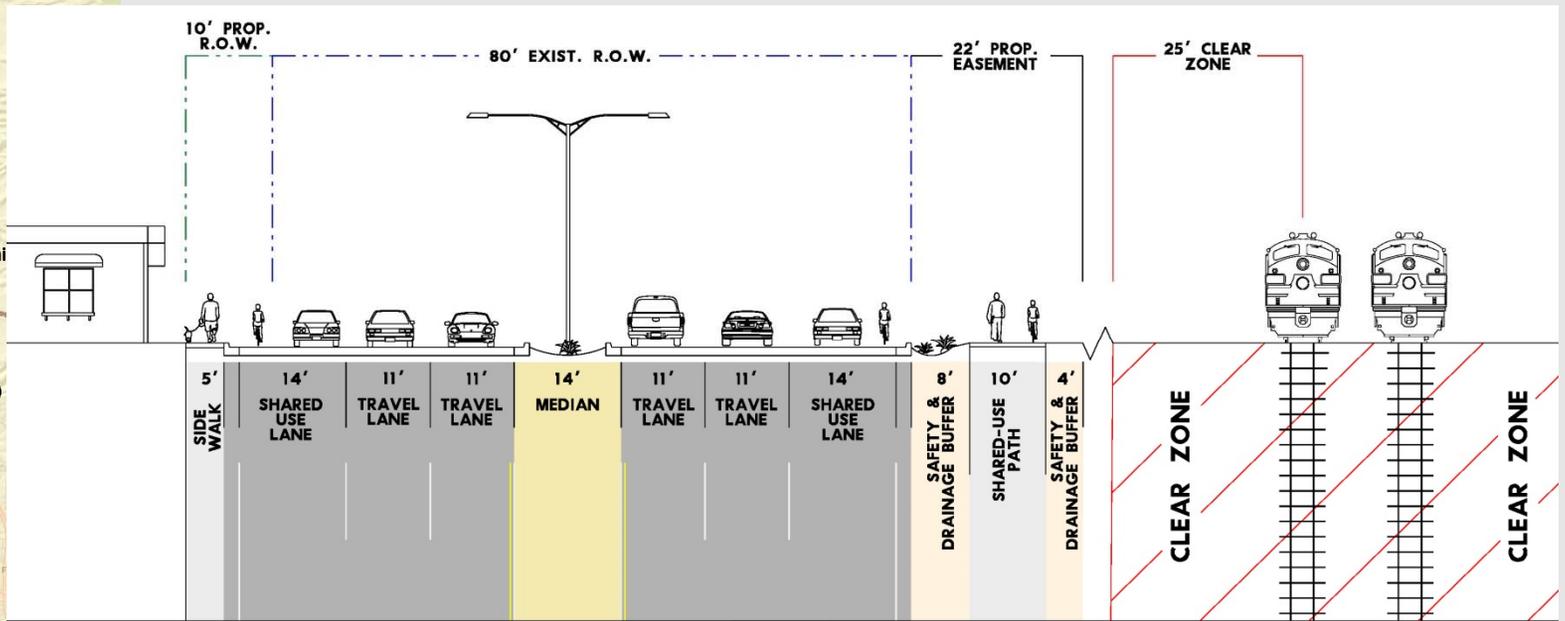
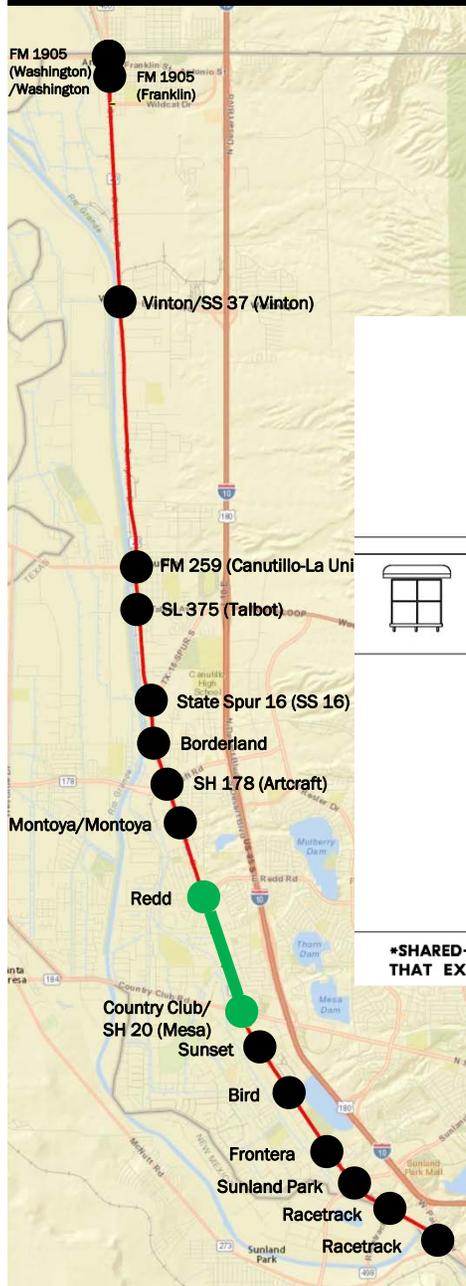


•DISTANCE BETWEEN EXISTING R.O.W. LINE AND PROPOSED SHARED-USE PATH EASEMENT REACHES A MAXIMUM OF 400' ADJACENT TO SPUR 16 INTERSECTION WITH SH 20



6-LANE SECTION

REDD RD TO COUNTRY CLUB RD / MESA ST (SH 20)

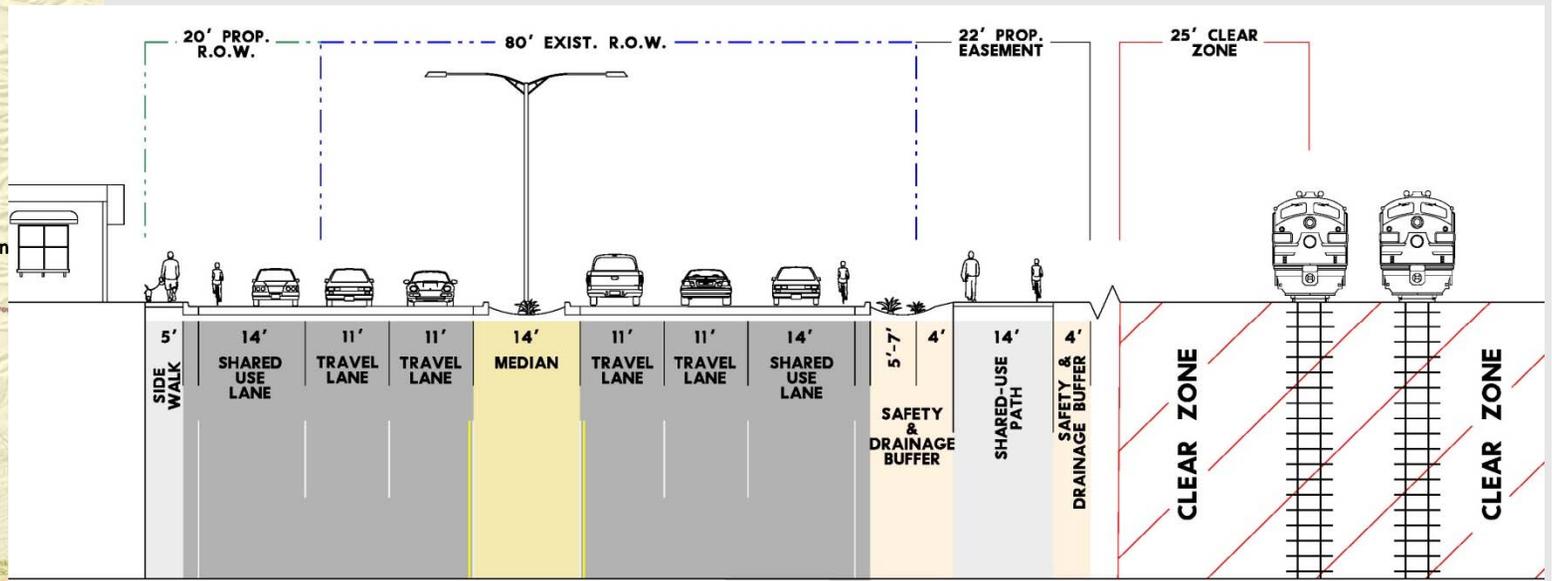
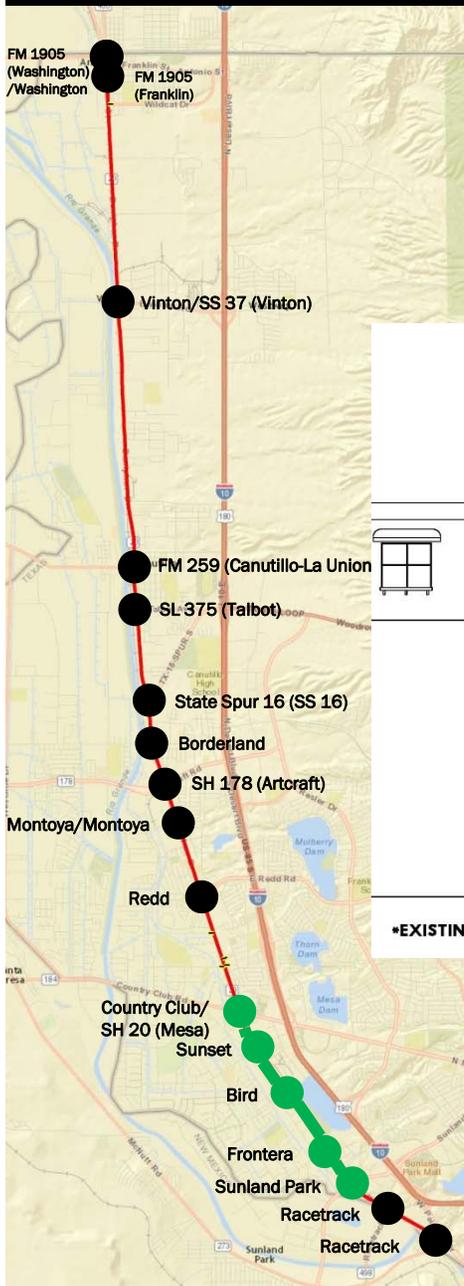


*SHARED-USE PATH COMPRESSED TO 10' IN WIDTH IN THIS URBAN SECTION DUE TO INADEQUATE BUFFER WIDTH WITHIN THE EXISTING R.O.W. ON THE WEST SIDE THAT EXISTS IN OTHER SECTIONS OF THE CORRIDOR



6-LANE SECTION

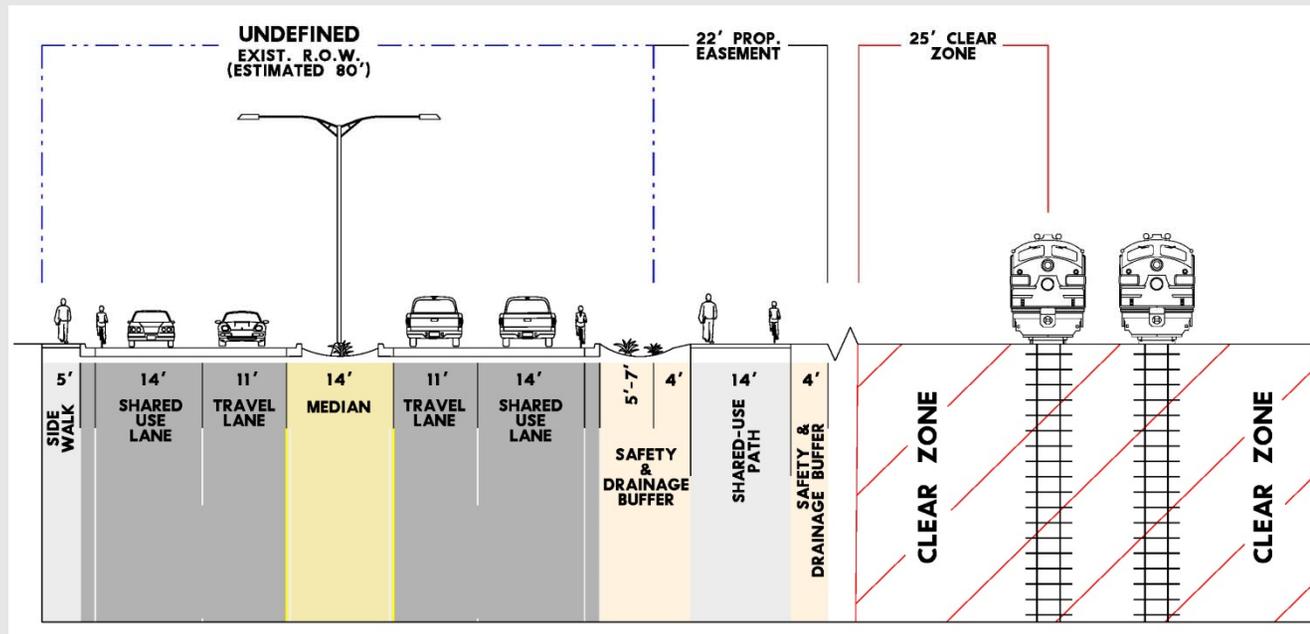
COUNTRY CLUB RD/MESA ST (SH 20) TO SUNLAND PARK DR



*EXISTING R.O.W. LINE ON WEST SIDE OF SH20 REDUCES TO 1' FROM THE BACK OF CURB AT THE SOUTHERN APPROACH TO SH20 (MESA ST)/COUNTRY CLUB DR



4-LANE SECTION SUNLAND PARK DR TO RACETRACK DR





DRAINAGE IMPROVEMENTS



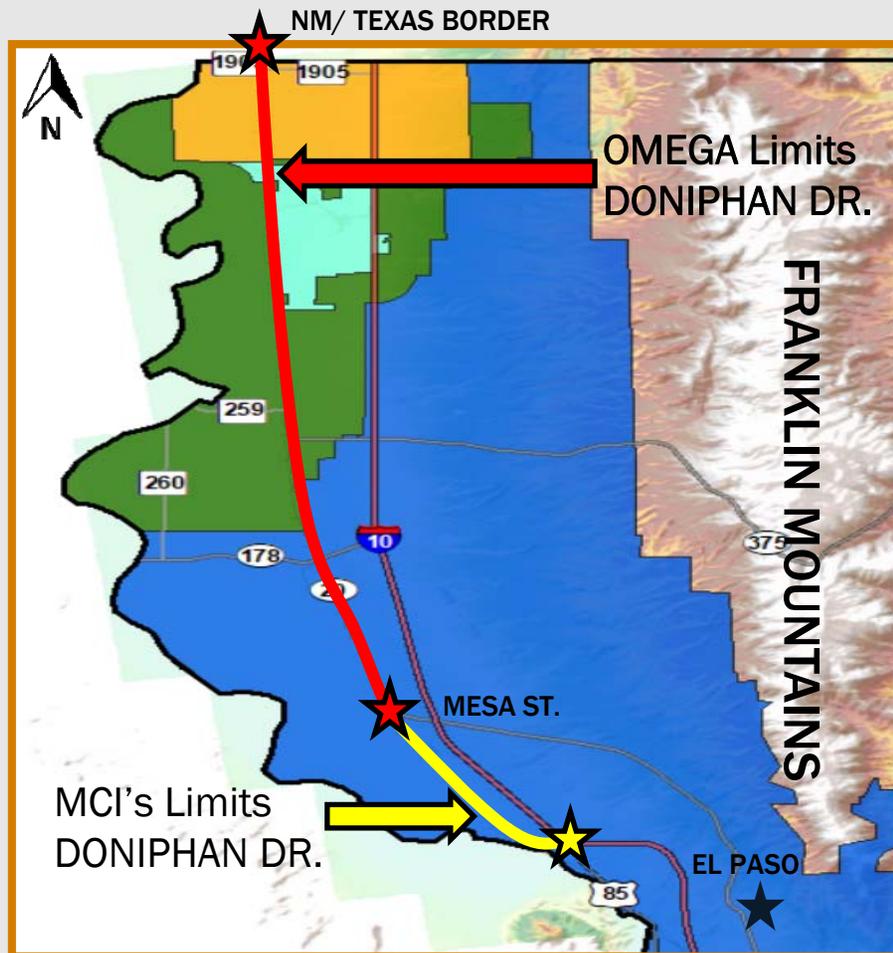
SCOPE OF WORK

- Perform Planning level ROW H&H Analysis for Frequencies:
 - 100-yr
 - 50-yr
 - 25-yr (Design Frequency)
 - 10-yr
- Establish Existing Conditions
- Evaluate JACOBS' Proposed Roadway Alternatives & Provide Conceptual Mitigation Recommendations





DRAINAGE ANALYSIS – PROJECT OVERVIEW



Project Overview:

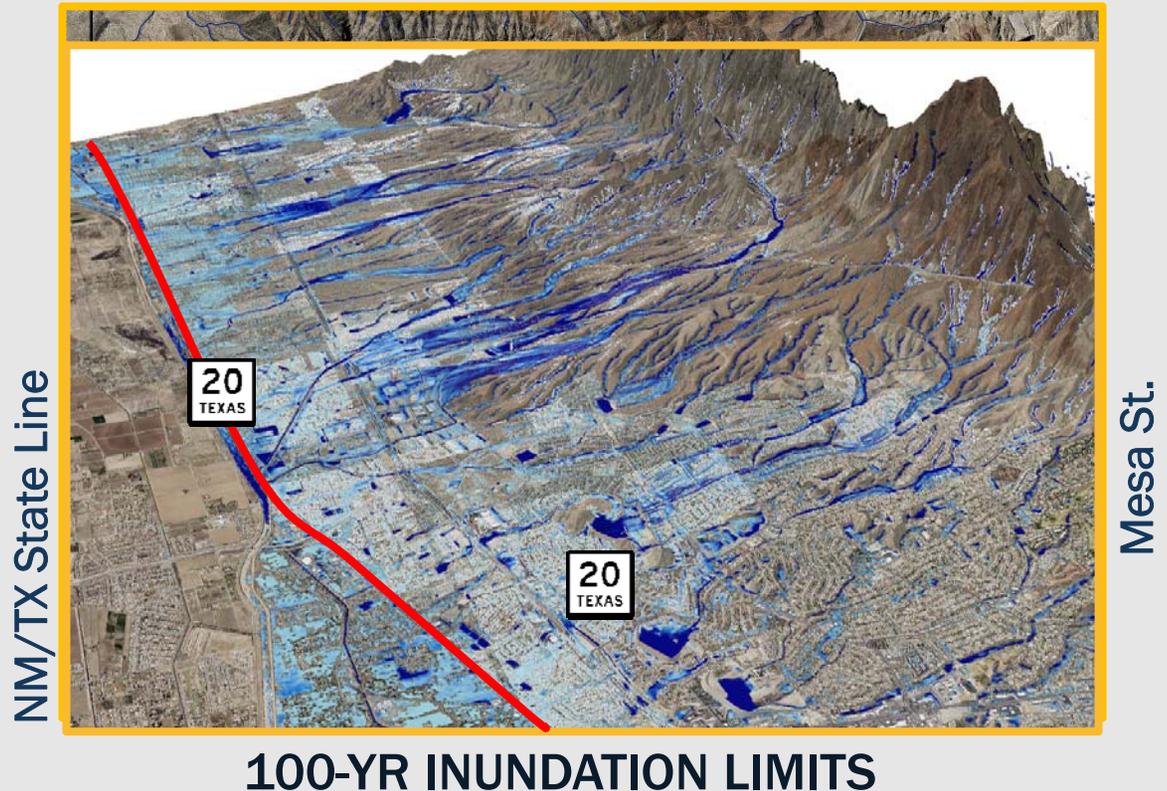
- Approximately 15 miles of roadway
- OMEGA limits from TX/NM border to Mesa St.
- Moreno-Cardenas limits from Mesa Street to Border West Expressway (Racetrack)



EXISTING CONDITIONS/CHALLENGES

Challenges:

- High Volume Off-Site Flows
- Inadequate Mitigation for Existing Developments
- Sediment Migrating from the Franklin Mountains
- Close Proximity to the Rio Grande
- High Water Table
- Railroads Impact on Existing Drainage
- Proposed IBWC Levee Impacts





PROPOSED SOLUTIONS

Regional Solutions:

- Corps of Engineers Development of Upstream Dams
- County and City Development Ordinances Requiring Site-Specific Mitigation
- Maintenance Agreements between all Agencies (Sediment)
- Railroad Obstruction of Flow to the Rio Grande
- IBWC Levee Impacts and Outfall Locations



PROPOSED SOLUTIONS

Doniphan Drive Recommendations:

- Consider Increasing Design Frequency & Criteria for Doniphan Dr.
- Proposed Ditches and Medians within TxDOT ROW
- Mitigation Outside TxDOT ROW for Franklin Mountain Flows
- Gate Closures at the Proposed IBWC Levee Will Impact Doniphan Dr.
- BNSF RR Negatively Impacts Areas Adjacent where Grading is Inadequate
- Additional Outfalls Should be Considered for both the IBWC & BNSF RR



MESA ST. TO RACETRACK RECOMMENDED DRAINAGE CONCEPTS





MESA ST. TO RACETRACK RECOMMENDED DRAINAGE CONCEPTS



PLAN VIEW



INSET "D"



PLAN VIEW



INSET "A"



INSET "B"



INSET "C"



WHAT'S NEXT...

Public Meeting Series #3 – Open House Format

Monday, January 22, 2018 – 5pm to 7pm

Lincoln Middle School – Gymnasium

500 Mulberry Ave., El Paso, TX 79932

Tuesday, January 23, 2018 – 5pm to 7pm

Canutillo High School - Cafeteria

6675 S Desert Blvd., El Paso, TX 79932