

Resilience and Durability to Extreme Weather Pilot Project

PANEL DISCUSSION
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Who We Serve



CORPUS CHRISTI REGIONAL
TRANSPORTATION AUTHORITY

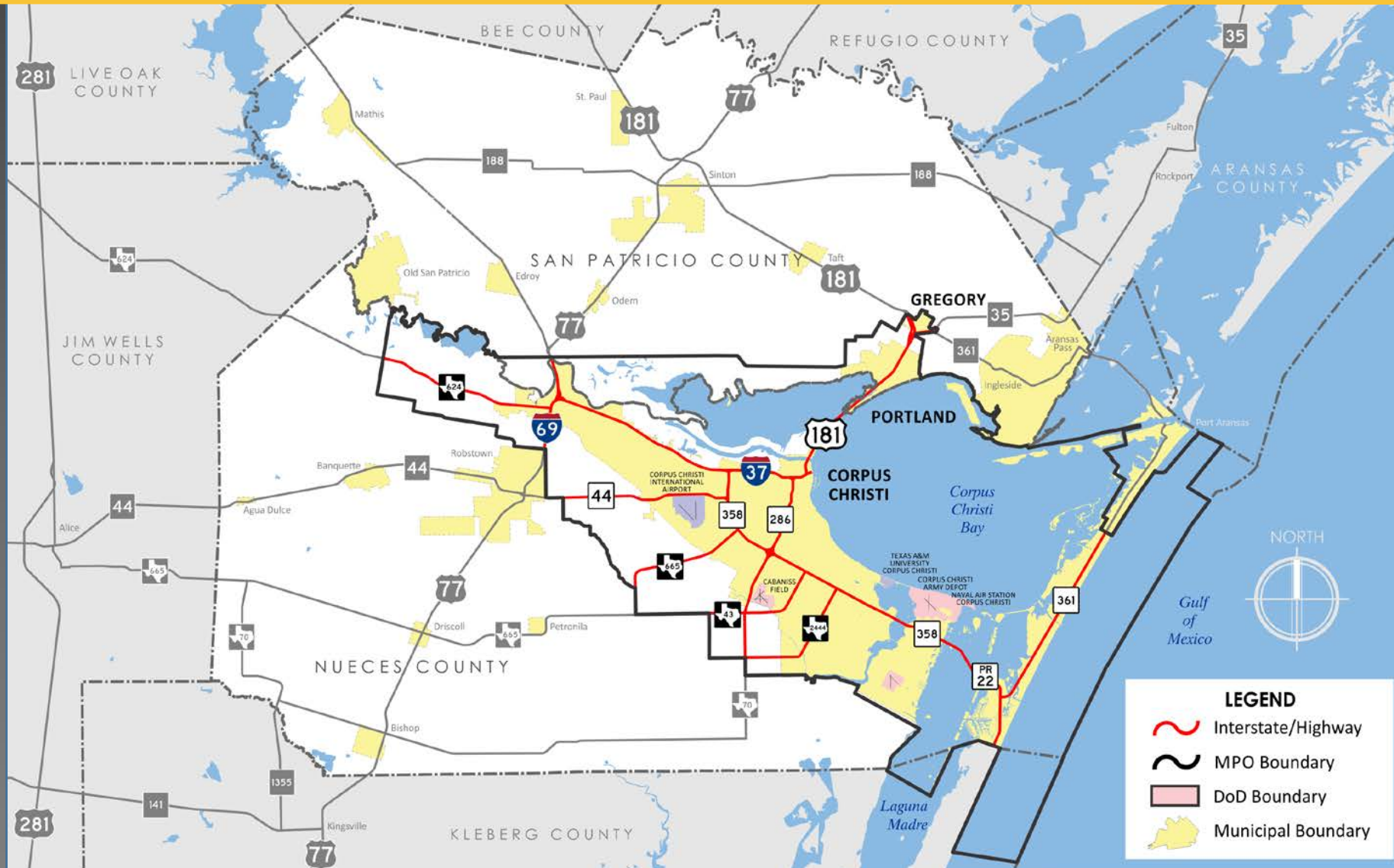


CORPUS CHRISTI **MPO**
METROPOLITAN PLANNING ORGANIZATION

the
portland
of possibilities.



Corpus Christi MPO Boundary





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Understanding Your Transportation Needs

UNDERSTANDING YOUR TRANSPORTATION NEEDS

With your help, we can better understand the things that impact how you travel in your area and your opinions of the transportation system will help set the transportation needs of the community, both now and in the future.

TAKE OUR SURVEY +

TOME NUESTRA ENCUESTA +



MTP
METROPOLITAN
TRANSPORTATION
PLAN

2015-40
Long-range planning
over a horizon of 20
or more years.

TIP
TRANSPORTATION
IMPROVEMENT
PROGRAM

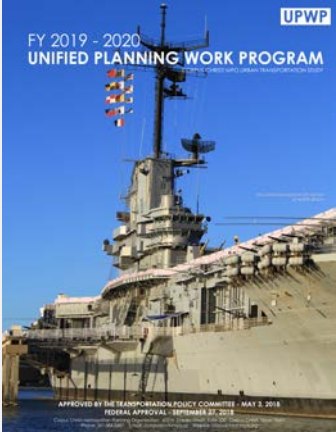
**FY 2019-
2022**
Short-range plan
with anticipated
federal funding.

UPWP
UNIFIED
PLANNING
WORK PROGRAM

**FY 2019-
2020**
Our comprehensive
one-year planning
program.



Resiliency Pilot Project Basics

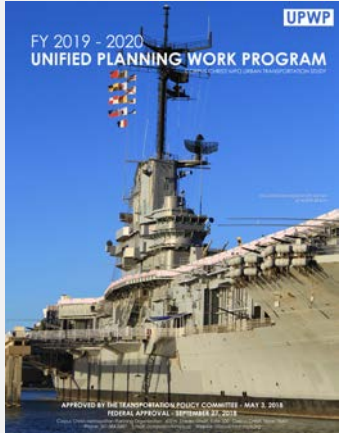


MPO Lead: Separate FHWA Grant

Partners: Texas A&M-CC, City of Corpus Christi, Nueces County, Consultant Team HDR with LJA

Cost Sharing: FHWA \$\$, MPO \$\$

Integrate into MPO Planning Program

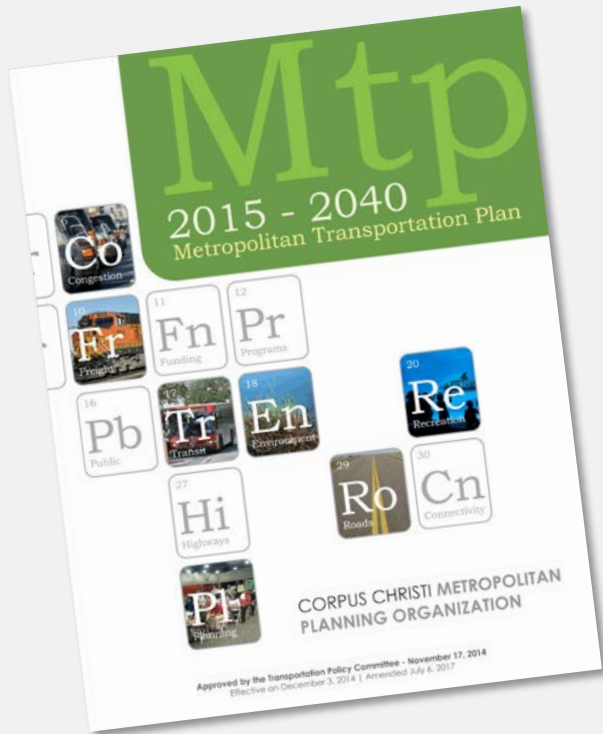


MPO UPWP: Annual Budget for Programs and Studies with FHWA PL funds

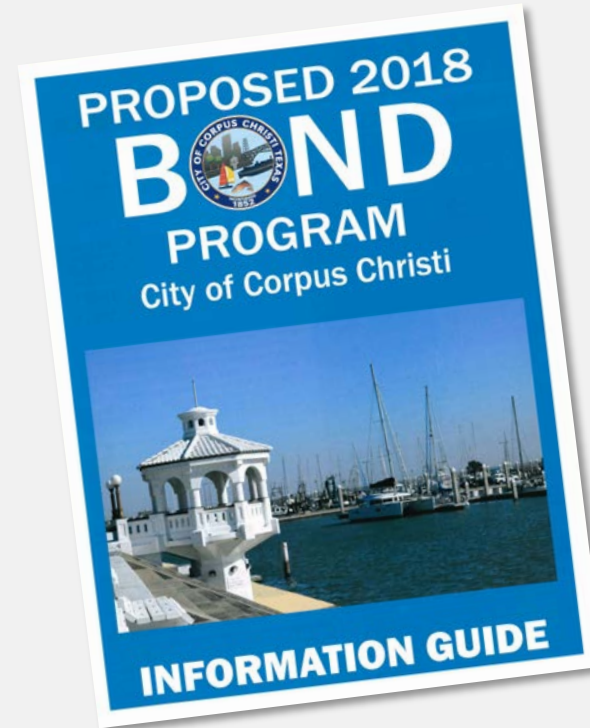
Special Projects: Separate Funding for

- FHWA Resiliency Grant
- Regional Travel Speed Study

Next Steps: Integration into MTP



MPO MTP:
Metropolitan
Transportation
Plan 25-Years



Resiliency Plan:
Connect to our
regional planning
context!

**Resiliency will be Planned and Integrated into Overlapping
Transportation Objectives for:
Roads, Transit, Bicycle, Freight, Pedestrians, Aviation, and Rail**

Pilot Project Detail

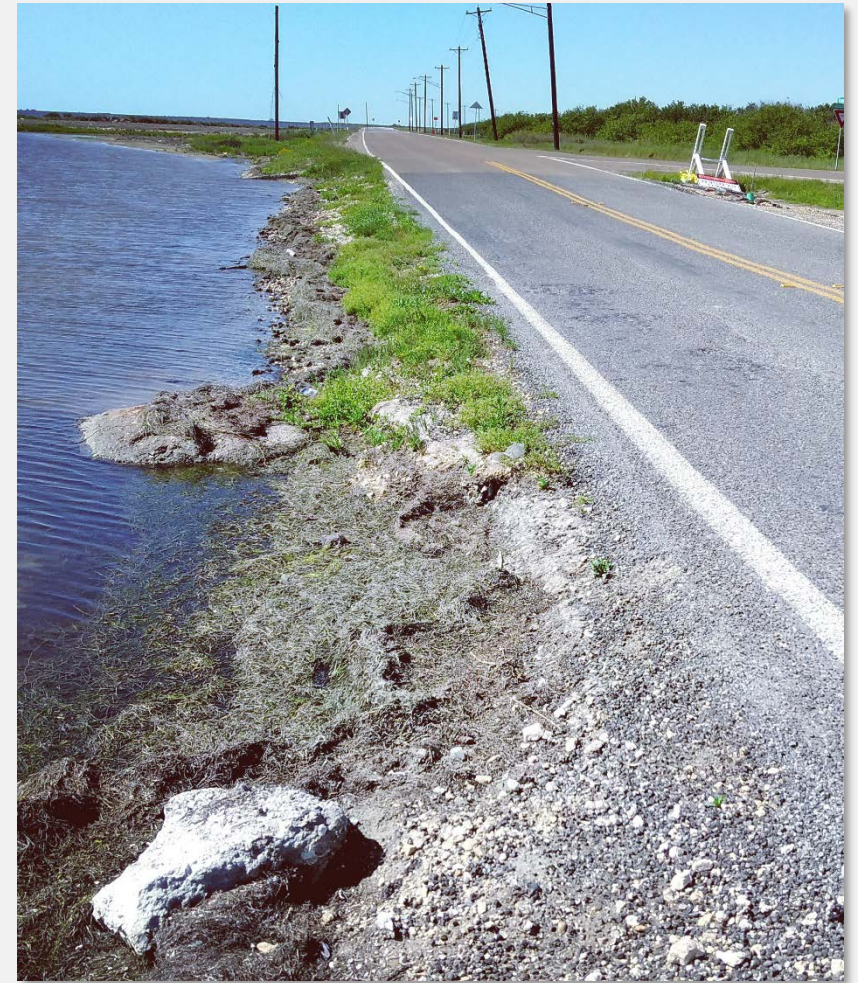


- The pilot project is located on: Laguna Shores Road, a major north-south thoroughfare in the Flour Bluff neighborhood
- Roadway runs along the western shoreline of Laguna Madre
- Roadway is vulnerable to erosion, inundation, and other chronic and acute impacts from rising sea levels and coastal storm activity
- Efforts to construct a nature-based shoreline protection feature of a shellfish habitat and saltwater marsh. This will help to create a more resilient roadway and improve level of service and reduce susceptibility to inundation

Pilot Project Detail



Looking south at the project location on Laguna Shores Road under typical (non-storm) conditions.



Close-up, note the irregular edge of pavement and proximity to open water.

Pilot Project Detail

LEGEND

Vegetation Type

- Seagrass (*Halodule wrightii*)
- Smooth Cordgrass (*Spartina alterniflora*)

Elevation (FT NAVD88)

- × -2.5 - -1.5
- × -1.5 - -1.0
- × -1.0 - -0.5
- × -0.5 - 0.0
- × 0.0 - 0.5
- × 0.5 - 1.0
- × 1.0 - 1.5
- × 1.5 - 2.0
- × 2.0 - 3.5



Pilot Project Detail

LEGEND

Elevation (FT NAVD88)



Pilot Project Detail

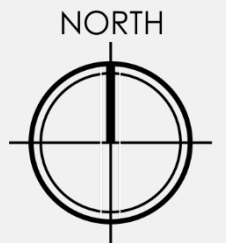
LEGEND

■ Geotechnical Boring Locations

% Cover of Seagrass

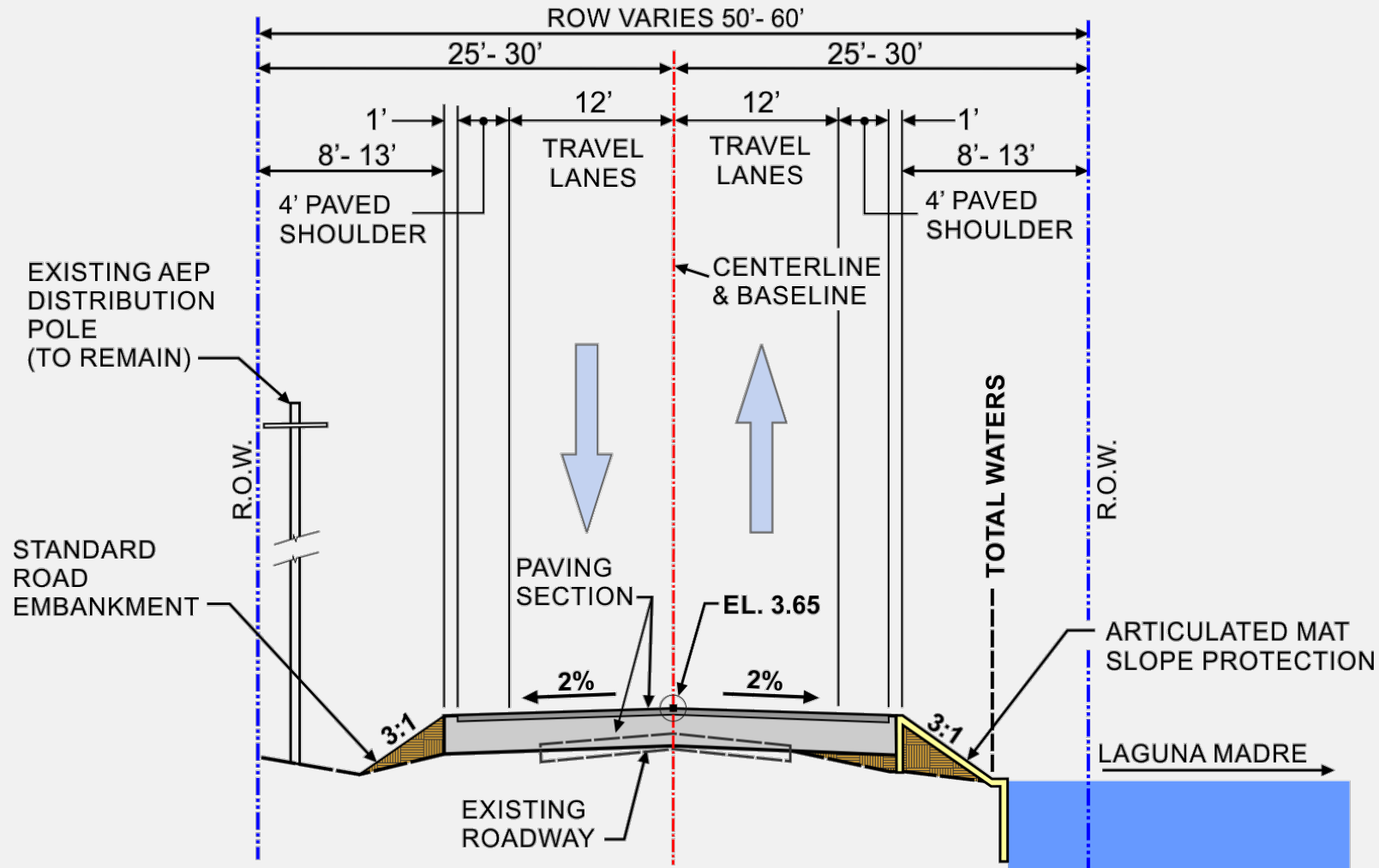
● 0	● 60
● 5	● 70
● 10	● 75
● 20	● 80
● 25	● 85
● 30	● 90
● 45	● 95
● 55	● 100

■ Approximate Seagrass Limits



0 100' 200' 400'

Typical Roadway Cross Section



Integrate Specific Resiliency Project



MPO TIP: Transportation Improvement Program 4-years of Projects and Programs



Local Government Bond Projects: Laguna Shores Road: Reconstruction of 2-lane road, elevated to 5 feet above MSL and incorporate pilot wetland mitigation by MPO.

Questions?



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