















FORT WORTH DISTRICT

Trinity River Vision Bridges

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District Engineer

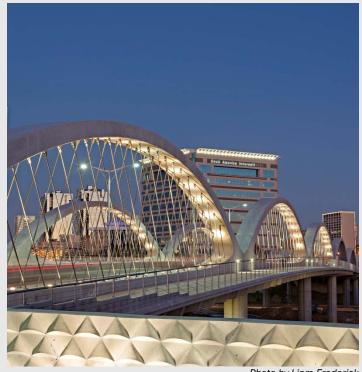


Photo by Liam Frederick



Mission Statement

Work with others to provide safe and reliable transportation solutions for Texas.

Goals

- Maintain a safe system
- Address congestion
- Connect Texas communities
- Become best-in-class state agency

Values

- Trust
- Integrity
- Responsibility
- Excellence
- Service





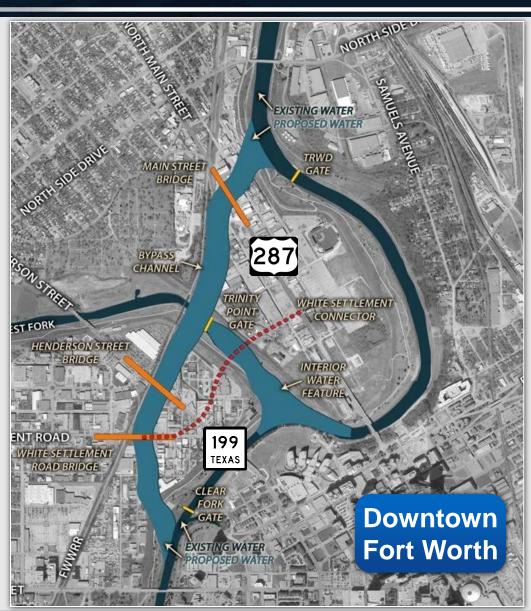




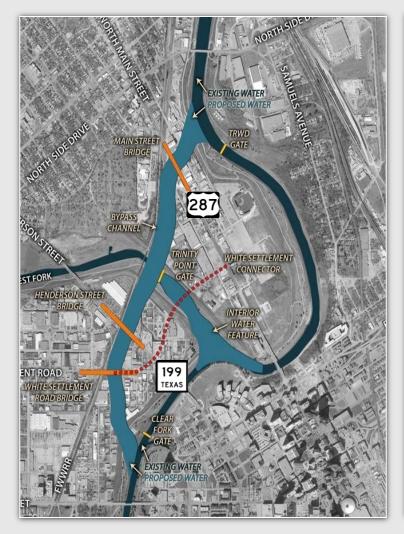


Trinity River Vision Master Plan

- Flood control
- Rerouting Trinity River
- New bypass channel
- Three new bridges
- Potential development



TRV Panther Island

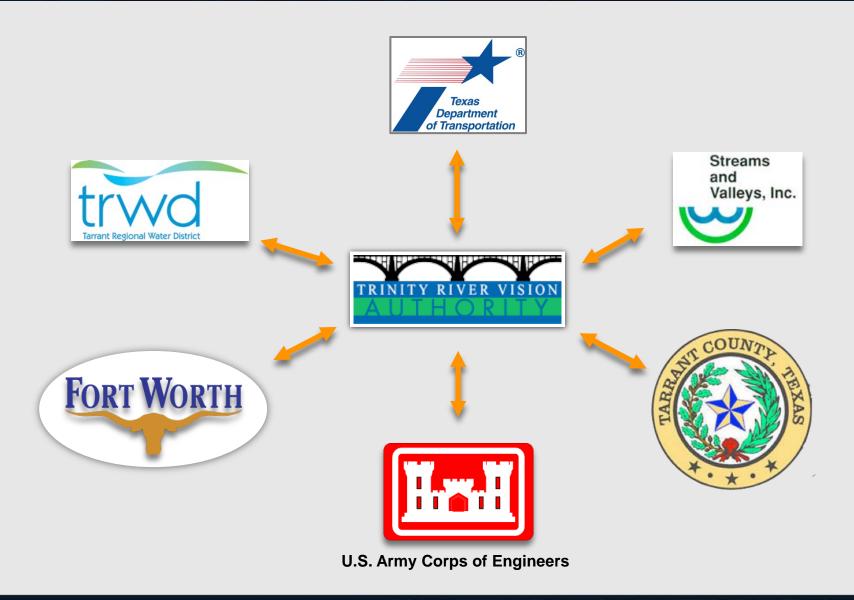


Public Infrastructure Project: for Flood Protection & Access



Potential Private Development: as a Result

Partnerships



Partnerships

- -Local
 - Environmental clearance, design & construction funding
- -TxDOT
 - Henderson St (SH 199) partial construction funding
 - Main St (Business 287) partial construction funding
 - Construction review, inspection & maintenance
 - Environmental clearance with FHWA
 - Partnered on consultant selection
- NCTCOG Funding
- Federal Funding

Trinity River Vision Bridges

- Construct 3 new bridges for bypass channel
 - Henderson St (SH 199)
 - Main St (Business 287)
 - White Settlement Rd (local street)
- Construction Cost:\$65.5 million
- Awarded to Texas Sterling:May 2014
- Construction Begins:Fall 2014
- Est. Completion: 2018



Partnerships

Construction Funding

• Federal: \$30.4

• State: **\$9.9**

• Local: **\$25.2**

\$65.5 million

V-Pier Bridges

- Initial Design
 - Challenging
 - Intertwining bridges
 - Less aesthetic appeal due to wider bypass channel
 - Est. Cost: \$115 million
- -V-Pier Design
 - Easier to construct
 - Half the number of piers of a conventional bridge design
 - More visually appealing
 - Cost: \$65.5 million

Trinity River Vision Bridges

- Cast-in-place V-Pier Design
- Complete closure of the road during construction
- Construction of detour routes
- Extensive shoring and form work, including over the FWWR for the Henderson St and White Settlement Rd bridges



Future Bridges and Channel



Detours

- Parallel Detours will be available adjacent to Henderson St & North Main St
 - Serve existing businesses and pass-through traffic
- -White Settlement Rd Closure
 - Alternative routes have sufficient excess capacity to accommodate traffic from White Settlement Rd

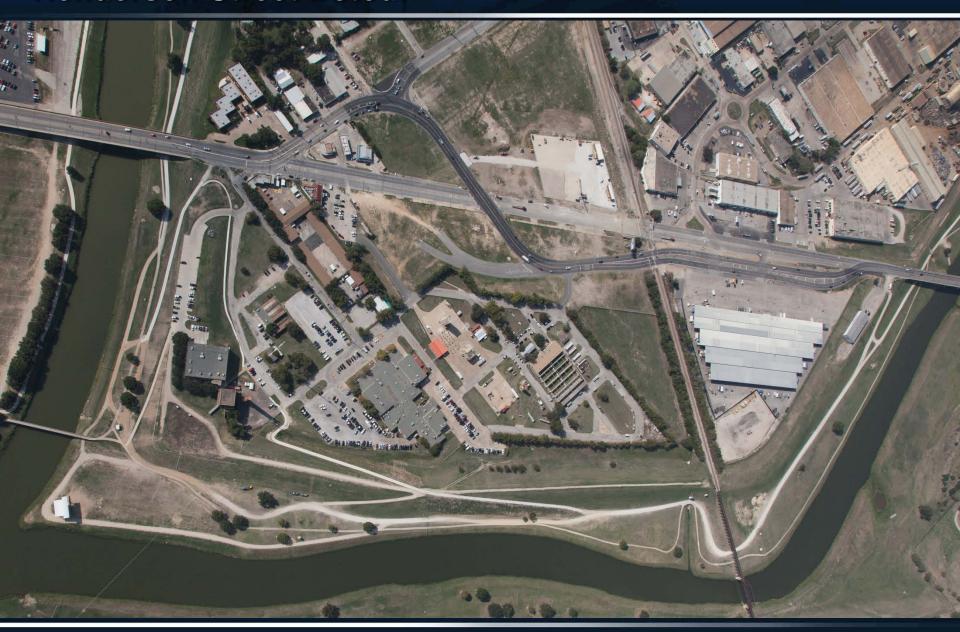
Detours



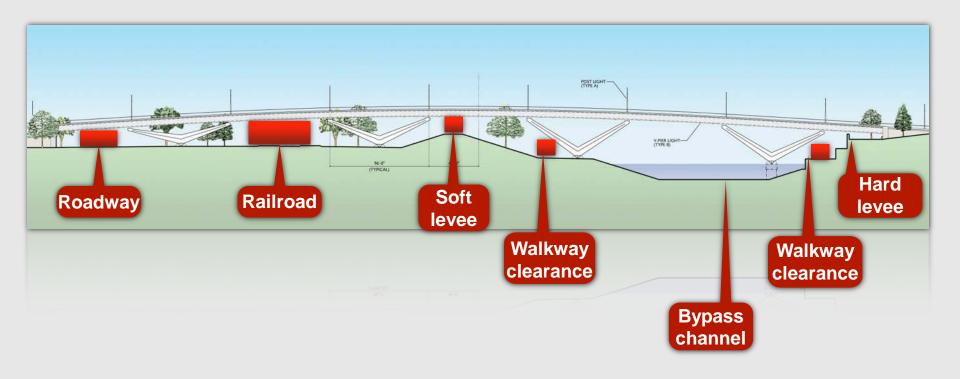
Detours

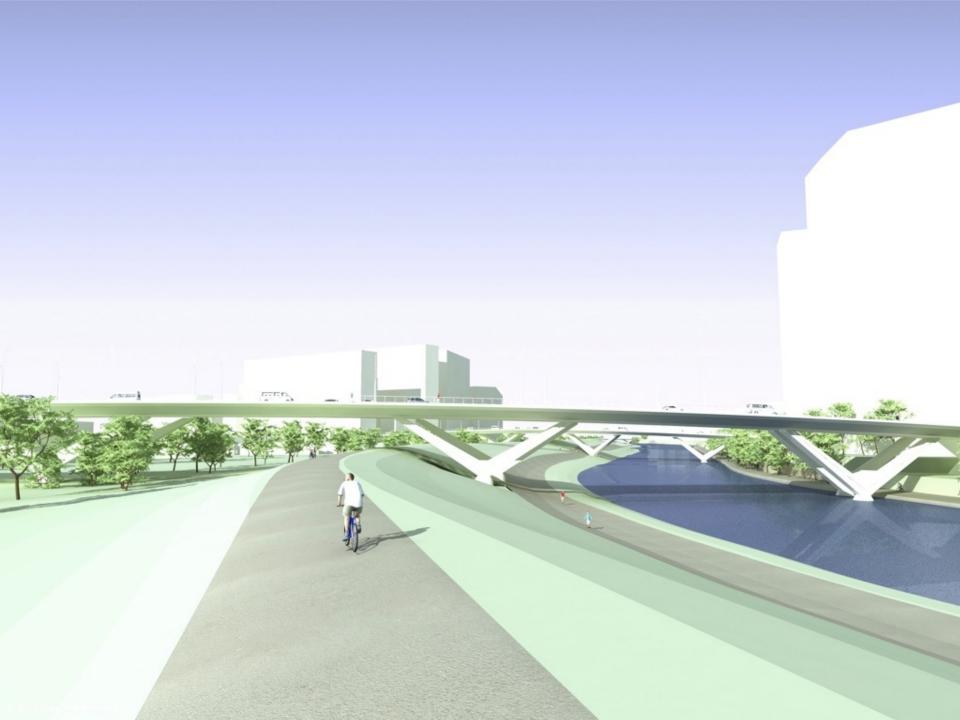


Henderson Street Detour



Future Items Below Bridge

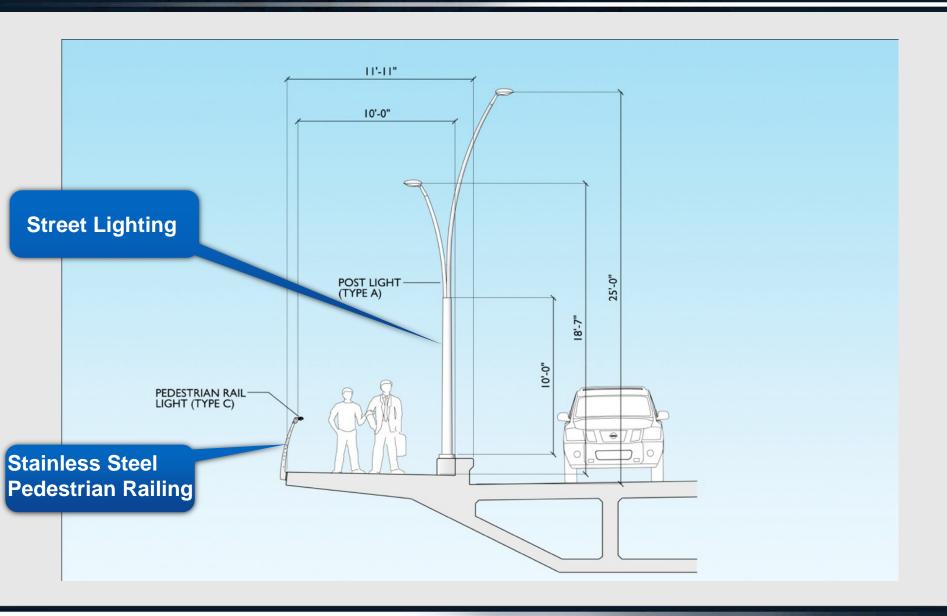




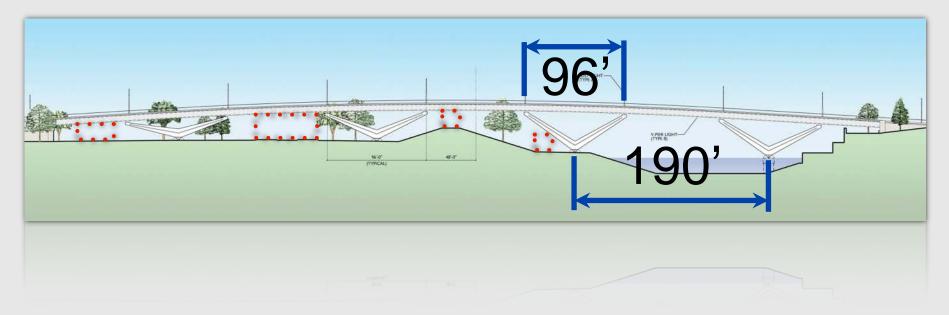




Pedestrian Elements

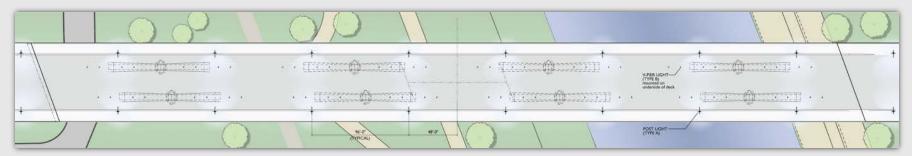


V-Pier Bridges

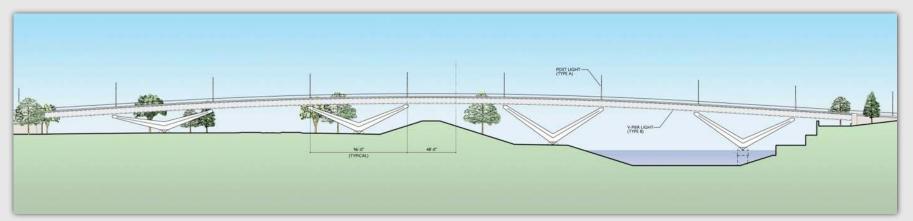


- V-piers minimize columns
- Shorter spans, shallower superstructure

Henderson Street Bridge

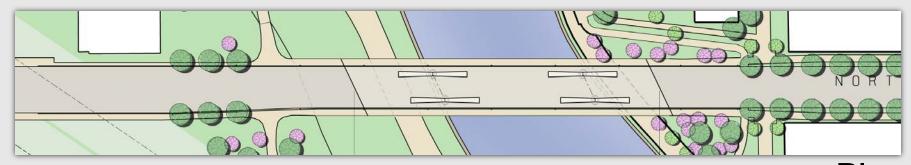


Plan

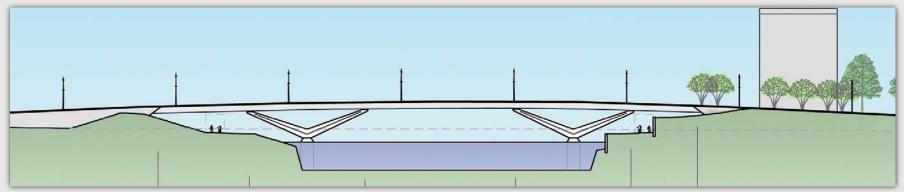


Elevation

North Main Street Bridge

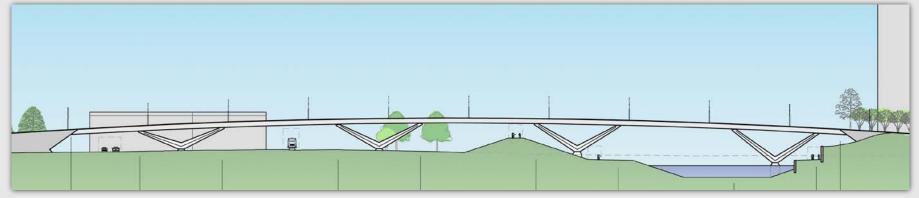


Plan



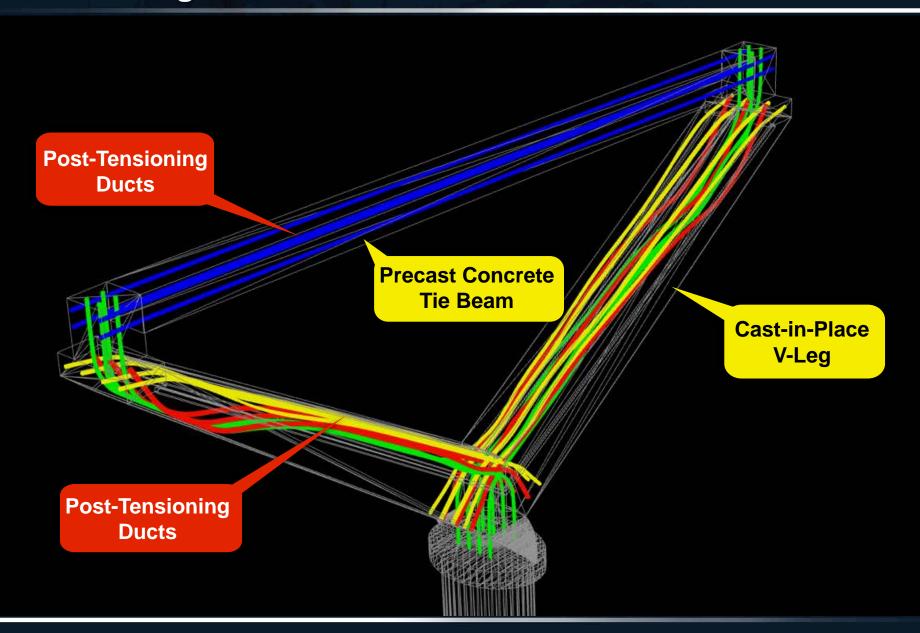
Elevation

White Settlement Road Bridge



Elevation

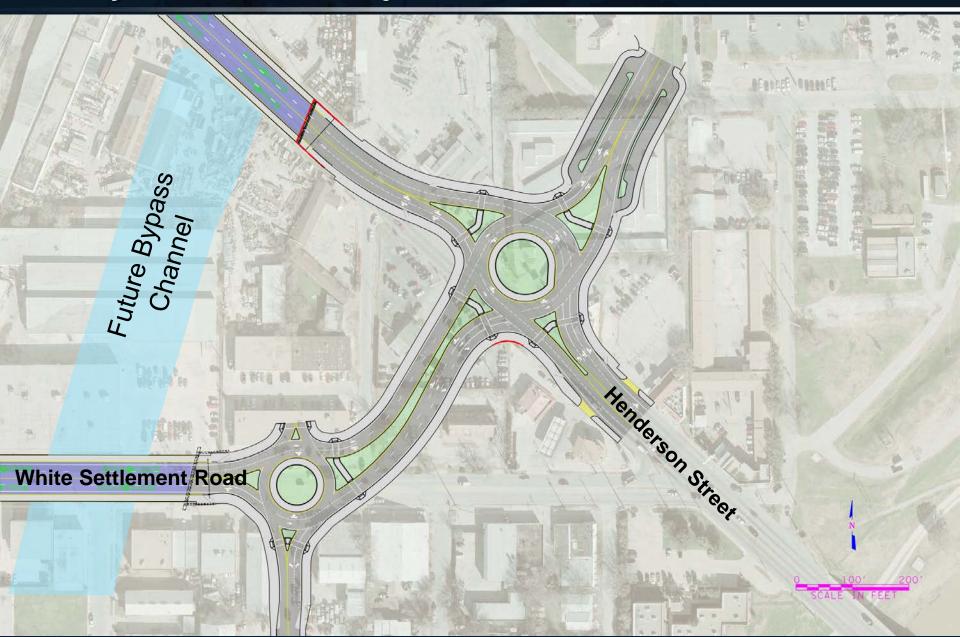
V-Pier Bridges



Mobility and Safety Benefits

- -Four-Lane Roadway
- Grade Separation at Railroad
- Pedestrian Friendly
 - 10-foot wide sidewalks
- -Henderson St & White Settlement Rd Roundabouts
 - ½ the average delay time per vehicle
 - Accommodates 20% more traffic
 - Traffic speed reduced by 1/3

Trinity River Vision Project



Henderson Street Roundabout



Public Outreach

- -TxDOT Mobility Coordinator
 - Door-to-door outreach for affected businesses
- -Mailers & E-Blasts
 - City news (water bills)
 - Web-based sign-up lists
 - Construction updates at www.trinityrivervision.org

THANK YOU



Fort Worth District