



CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY

Regular Meeting of the Board of Directors

January 30, 2019



CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY

A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. In the background, there are utility poles and a building on the left. The sky is blue with some clouds.

1 Welcome and Opening Remarks by the Chairman and members of the Board of Directors



2 Opportunity for public comment

A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. There are utility poles and a fence on the right side of the road. The sky is blue with some clouds. The text "Regular Items" and "Agenda Items 3-6" is overlaid on the image in a yellow font.

> **Regular Items**
Agenda Items 3-6

Geoff Petrov, Legal Counsel

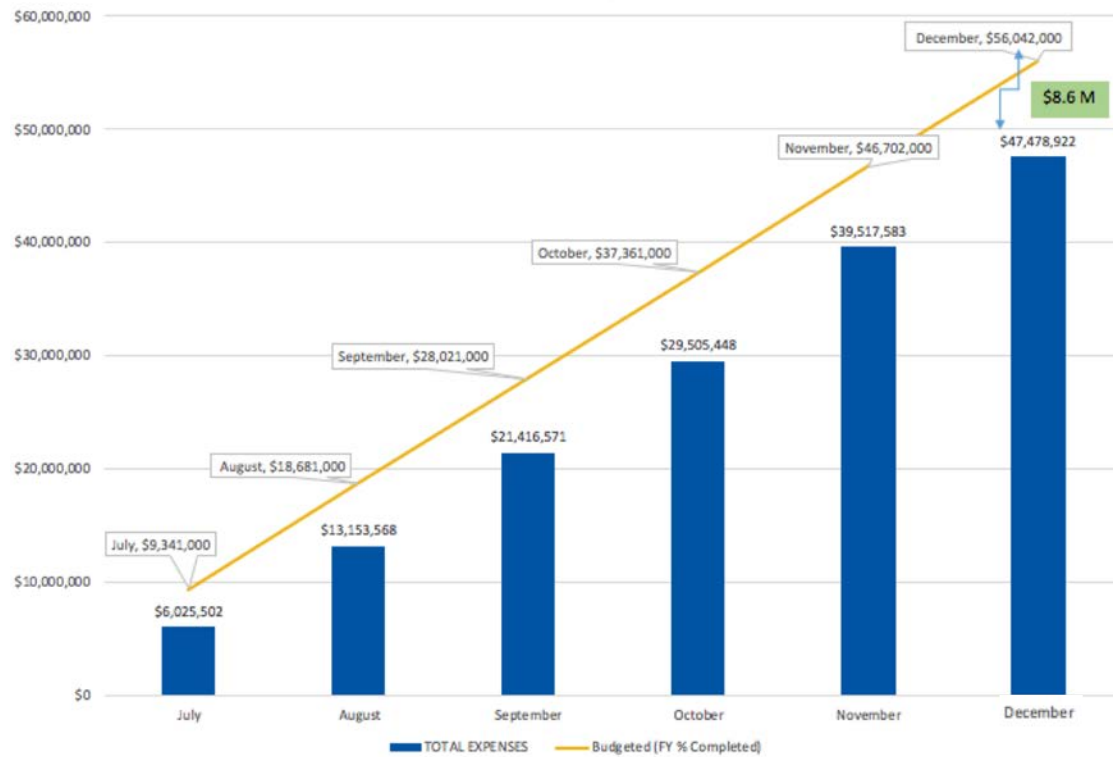
**3 Approve the minutes from the
December 11, 2018 Regular Board
meeting**

Mary Temple, Controller

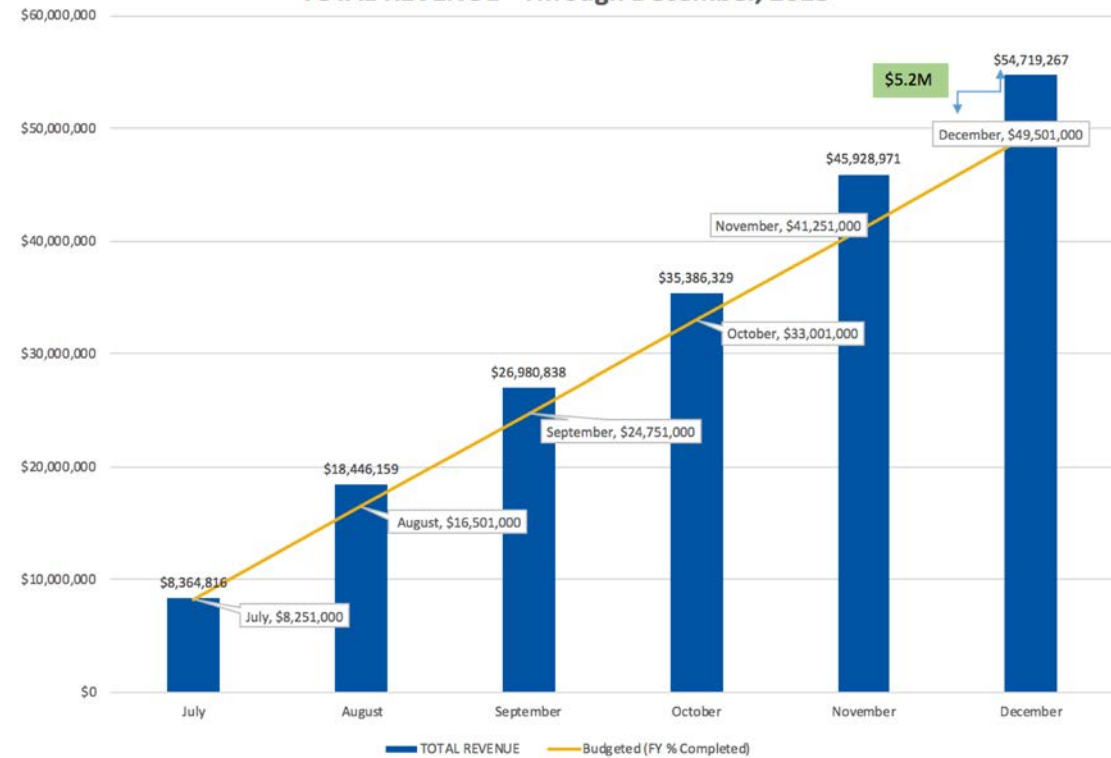
**4 Accept the financial statements for
November 2018 and December 2018**



TOTAL EXPENSES - Through December, 2018



TOTAL REVENUE - Through December, 2018



Justin Word, P.E., Director of Engineering

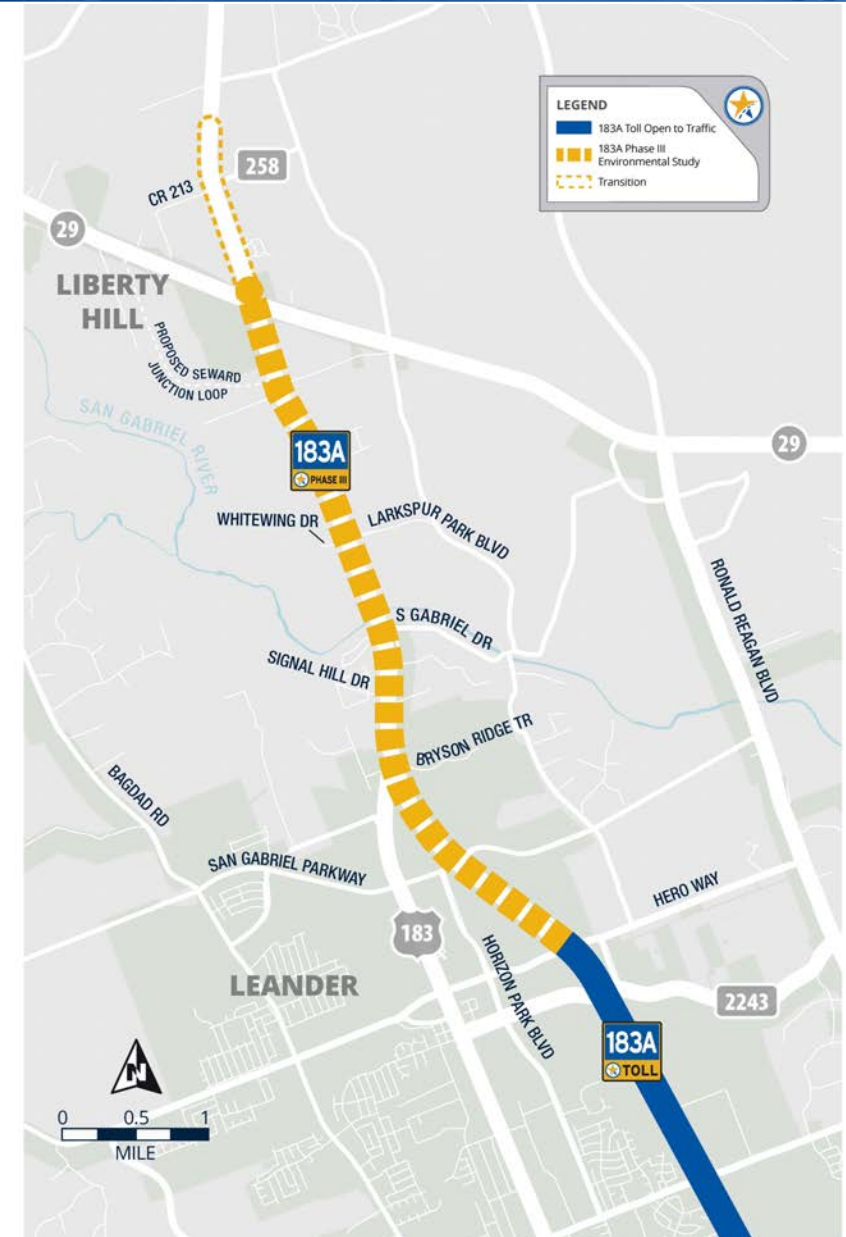
5

Approve a contract with Rodriguez Transportation Group, Inc. for professional engineering design services for the 183A Phase III Project



Project Summary

- 4-Lane tolled expressway within the median from Hero Way to just north of SH 29
- Total Project Cost \$250-260M
- Funding Sources
 - TIFIA / Toll Revenue Bonds \$260M
- Construction to start late 2020
- Open to tolling in 2023





Requested Action

- Authorize the Executive Director to finalize and execute the contract with Rodriguez Transportation Group, Inc. (RTG) for professional engineering design services for the 183A Phase III project for \$12,475,739.66
- Authorize the Executive Director to negotiate and execute Work Authorizations for the professional engineering design services with RTG.

Jeff Dailey, Deputy Executive Director

6

Consider and take appropriate action to revise the Employee Handbook to incorporate Flexible Work Schedule and Telework Procedures



Mobility Authority Flexible Work Schedule and Telework Procedures

- Travel Demand Management Strategies - Flexible Work Schedule and Telework
- Flexible work schedules incentivize a time shift of trips to reduce peak period trips
- Telework programs to reduce the number of daily commuter trips
- Strategic Plan and Clean Air Coalition Tier 1 Measure Commitment



Telework Procedures / Procedure Evaluation

- Work remotely up to two days per week, or as approved, modified, or cancelled by the Department Head and/or Executive Director
- Evaluation and management action Criteria:
 - Employee performance
 - Productivity
 - Work quality
- Quarterly flexible work schedule and telework report / evaluation



Estimated Benefits

- Shifts trips out of the peak travel time
 - Eliminates the number of commute trips
 - Reduces commute time
 - Reduces emissions and fuel consumption
 - Improves regional mobility
 - Improves organizational efficiency and performance
-



Requested Action

Approve the Flexible Work Schedule and Telework Procedures and amend the Employee Handbook to incorporate these Work Schedules and Procedures.



> **Briefings and Reports**
Agenda Items 7-9

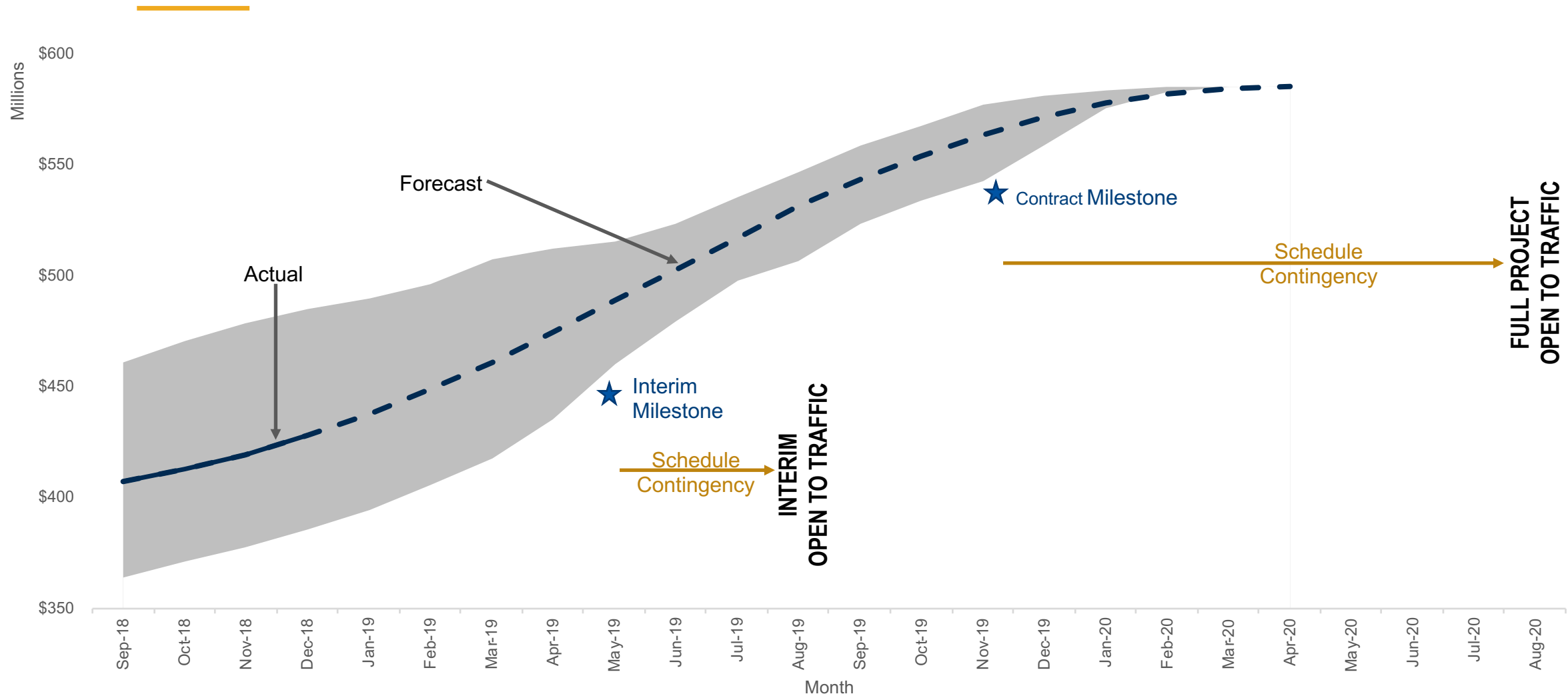
Justin Word, P.E., Director of Engineering

The background image shows a perspective view of a multi-lane highway stretching into the distance. On the right side of the road, there is a signpost with three signs: 'NORTH', '183 A', and a 'TOLL' sign with a circular arrow icon. The scene is overlaid with a semi-transparent blue filter. The text is positioned in the center-left area of the image.

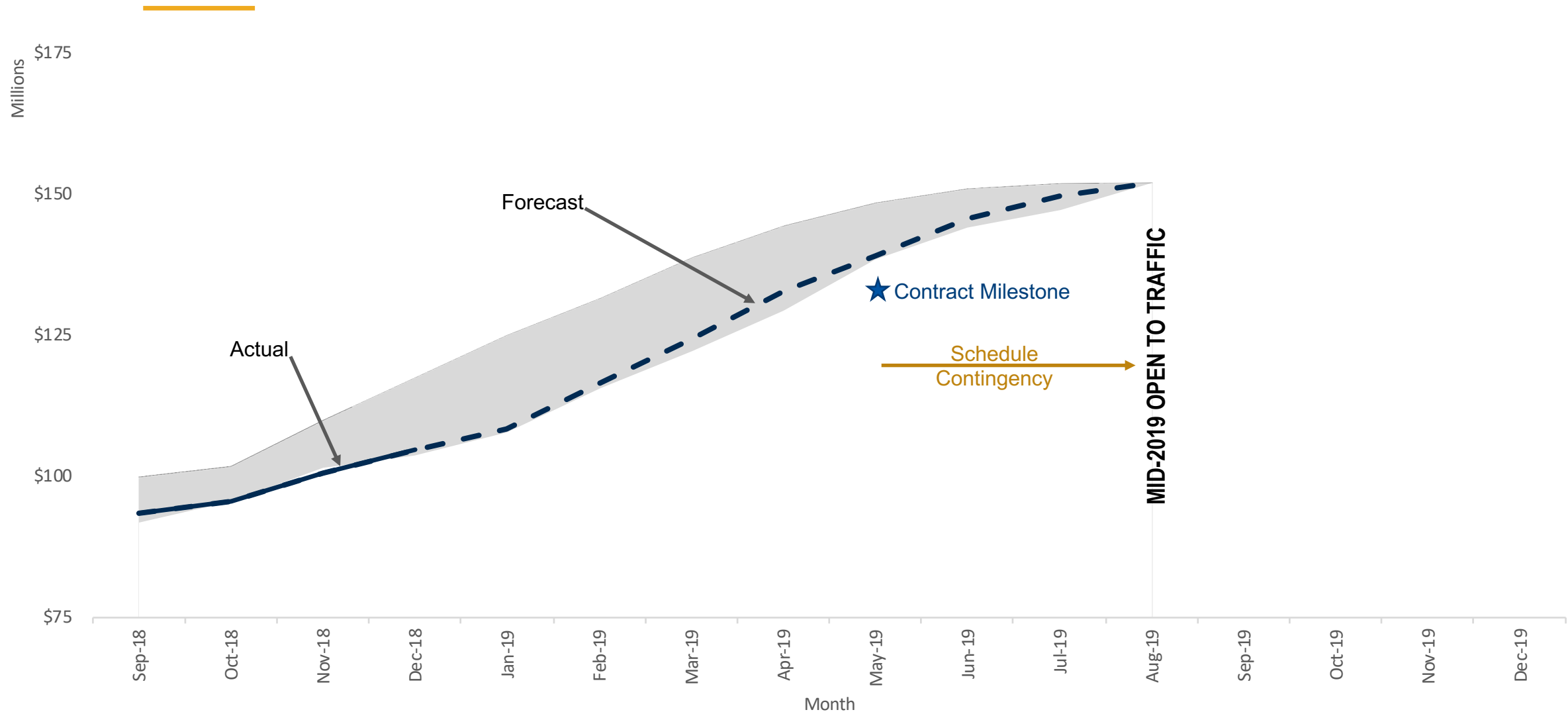
7 Quarterly update on transportation projects

A. 183 South Project

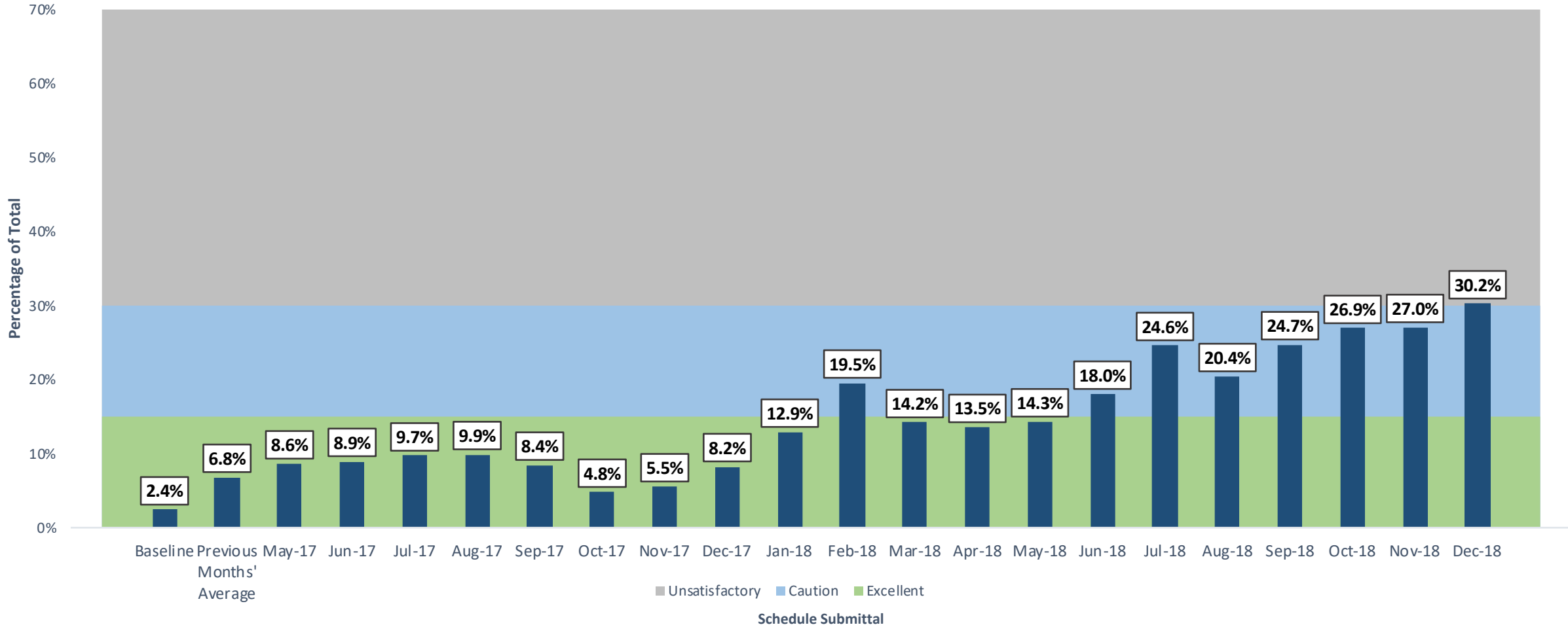
Cashflow Analysis – Full Project



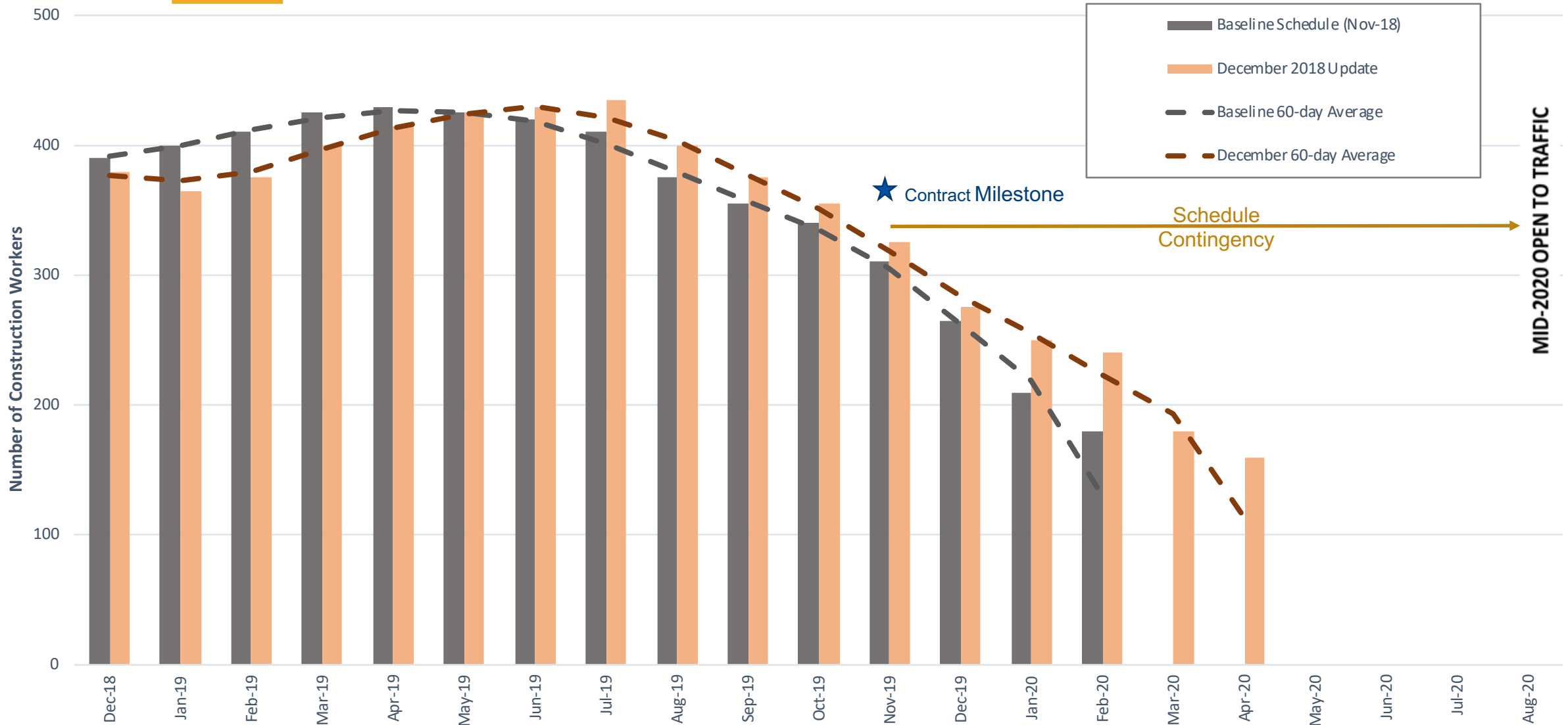
Cashflow Analysis – Interim Milestone



Near Critical Activities



Project Manpower Curve (December Schedule vs. Current Baseline)



183 South Design/Build Project



EXECUTED CONTRACT VALUE		\$581,545,700	
Total Project Contingency		\$47,860,000	
Obligations	CO#1 City of Austin ILA Adjustment	(\$2,779,934)	
	CO#2 Addition of Coping to Soil Nail Walls	\$742,385	
	CO#4 Greenroads Implementation	\$362,280	
	CO#6 51st Street Parking Trailhead	\$477,583	
	CO#9 Patton Interchange Revision	\$3,488,230	
	CO#10 City of Austin Utility (\$1,010,000 – No Cost to RMA)	\$0	
	Others Less than \$300,000 (6)	\$603,889	
	EXECUTED CHANGE ORDERS		\$2,894,433
	Change Orders in Negotiations		\$10,110,000
	Potential Contractual Obligations		\$10,570,000
Total Project Obligations		\$23,574,433	
Remaining Project Contingency		\$24,285,567	

Change Order
Status as of **12/31/18**

Construction Activities: FM 969 / MLK

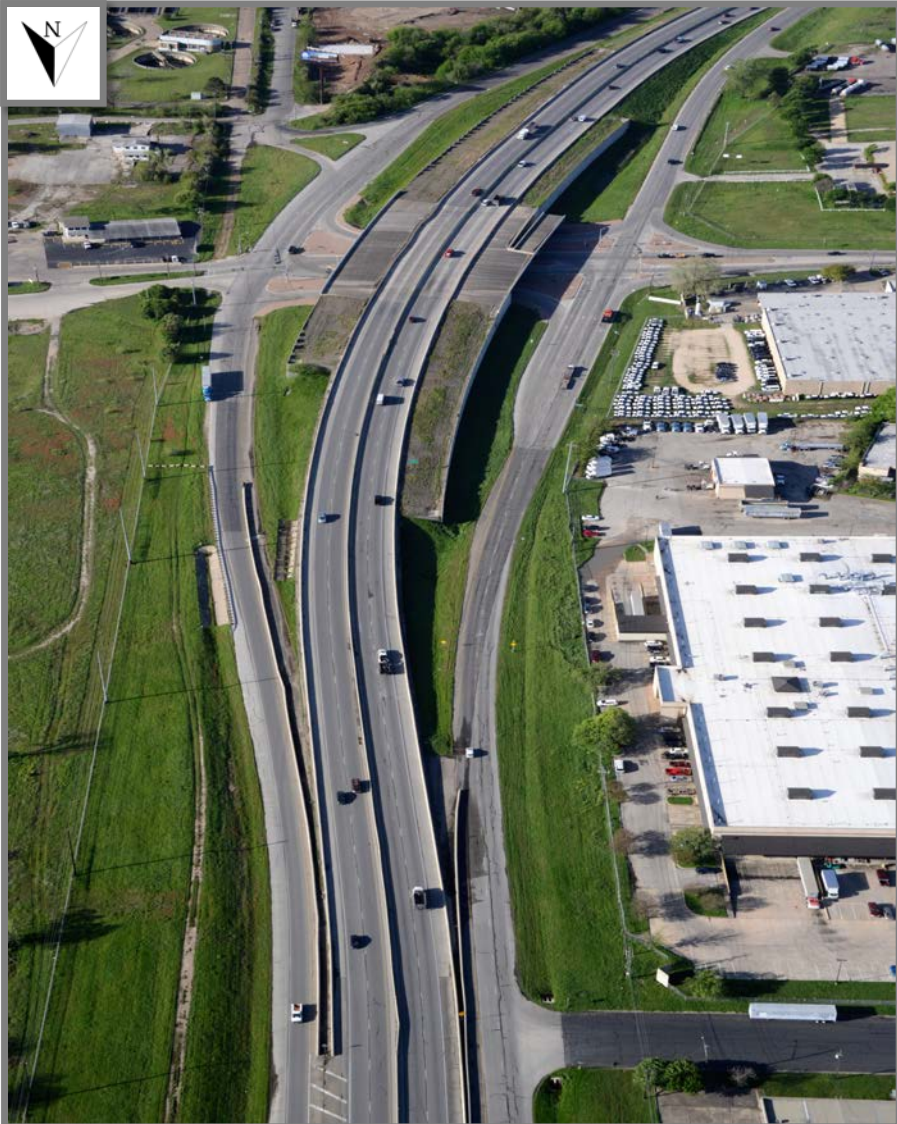


March 2016



December 2018

Construction Activities: Bolm Road



March 2016

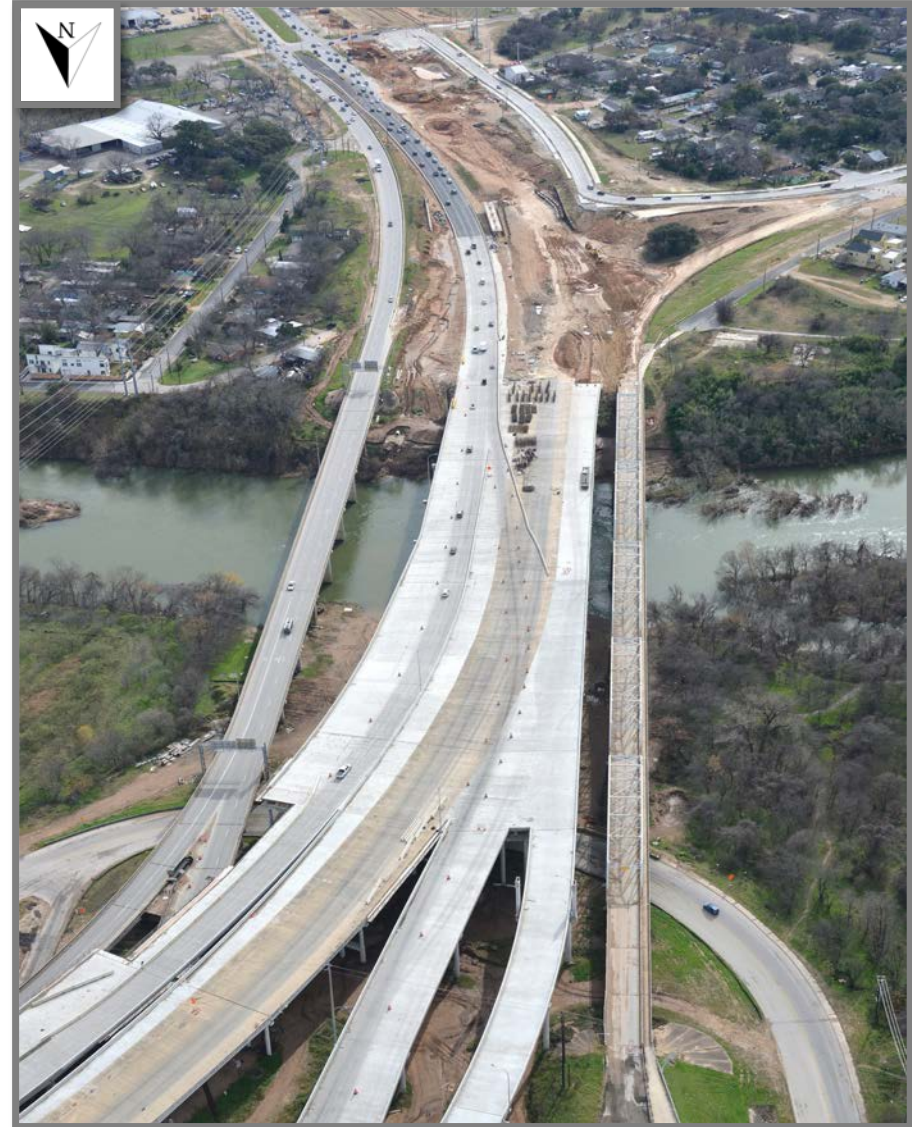


December 2018

Construction Activities: Colorado River



September 2018



December 2018

Drone Flight: Batch Plant (Little Walnut to Loyola)



January 2019

Drone Flight: Batch Plant (Loyola to Little Walnut)



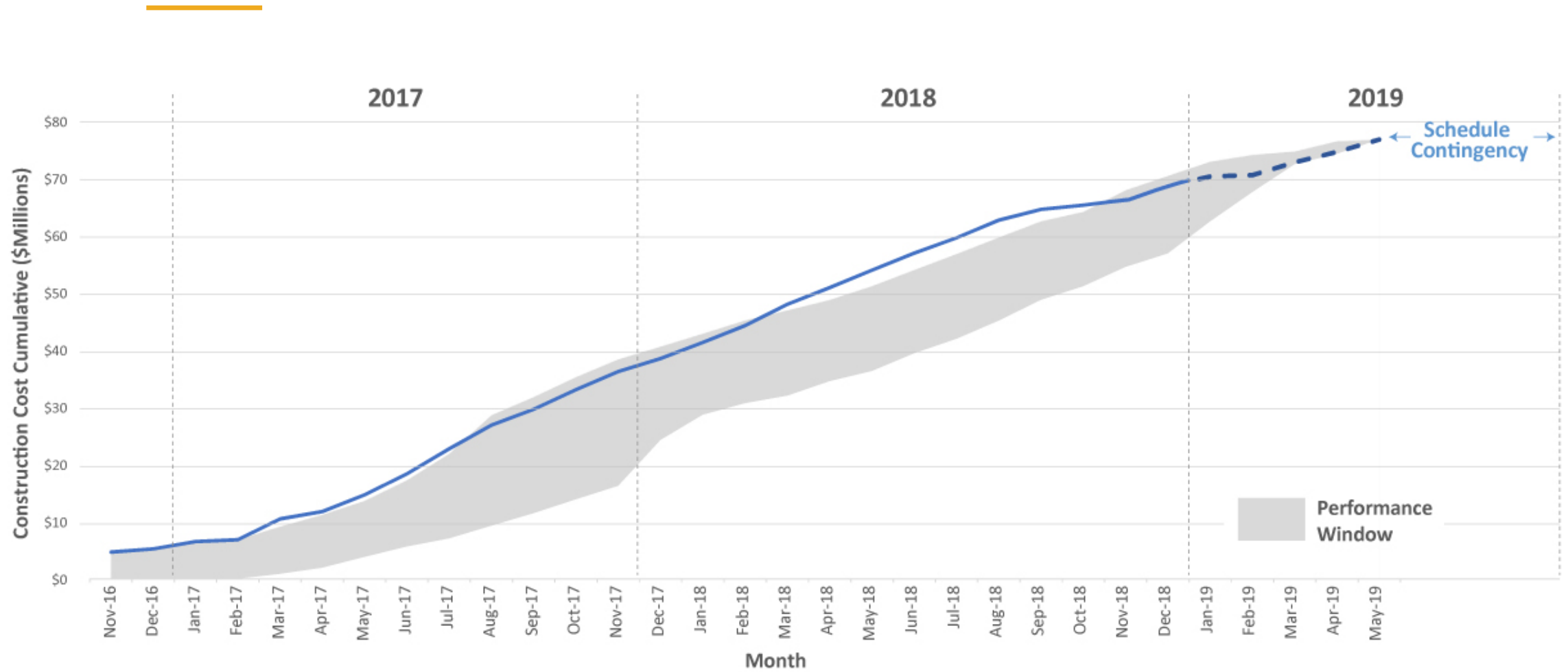
January 2019

Justin Word, P.E., Director of Engineering

7 Quarterly update on transportation projects
B. SH 45SW Project



Cash Flow Without Mobilization

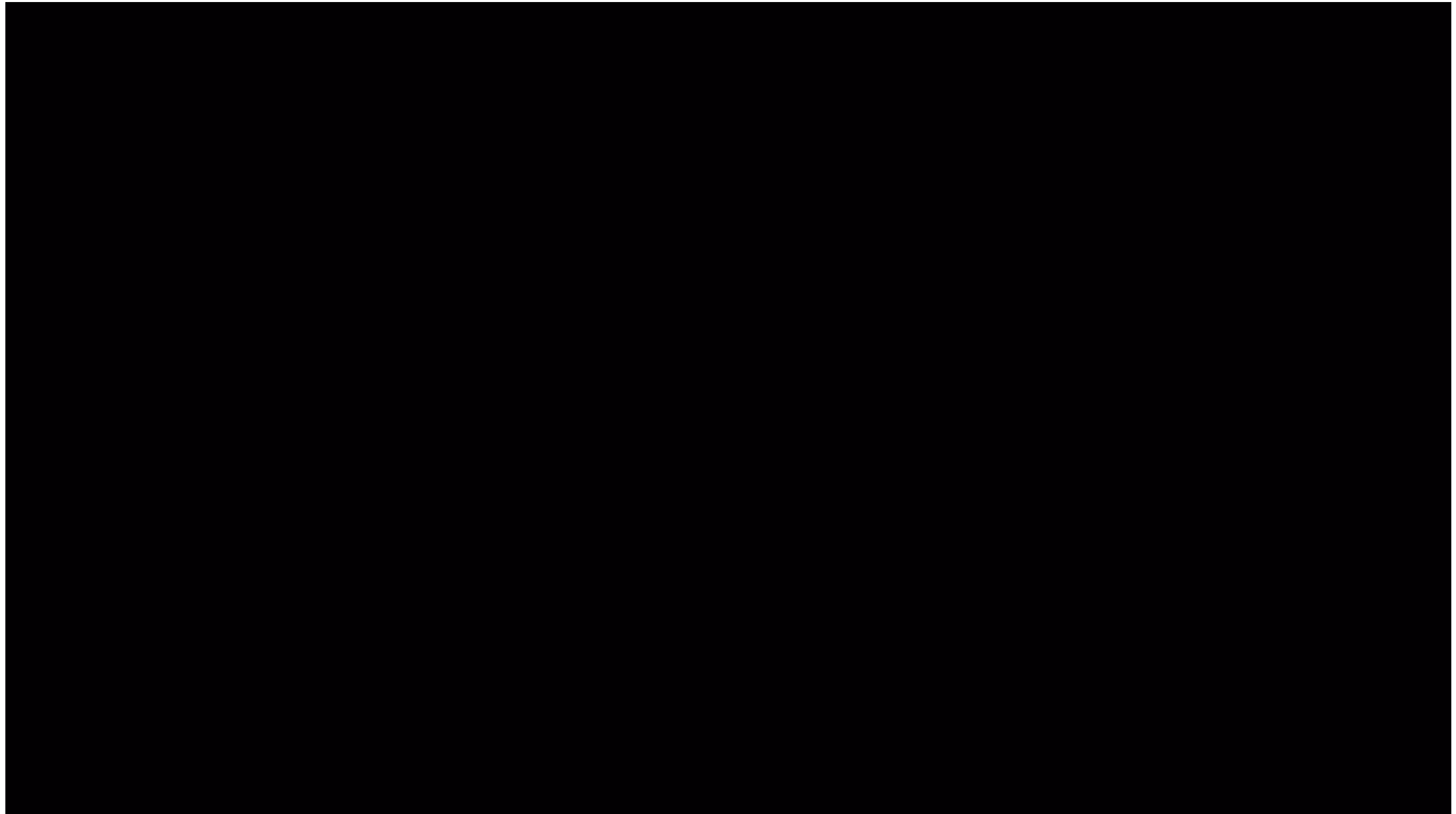


SH 45SW Design/Bid/Build Project



	EXECUTED CONTRACT VALUE	\$75,103,623
	Total Project Contingency	\$7,520,000
Obligations	CO#4 Installation of PEC and TWC Conduits	\$458,439
	CO#5 Installation of SSTR Drilled Shafts and Moment Slab	\$538,945
	All other change orders less than \$300,000 (14)	\$326,264
	EXECUTED CHANGE ORDERS	\$1,323,648
	Change Orders in Negotiations	\$60,478
	Potential Contractual Obligations	\$2,376,574
	Total Project Obligations	\$3,760,700
	Remaining Project Contingency	\$3,759,300

Drone Flight: January



MoPac Interchange



February 2018



January 2019

Bear Creek Bridge



February 2018



January 2019

Bliss Spillar Bridge



February 2018



January 2019

Jeff Dailey, Deputy Executive Director
Justin Word, P.E., Director of Engineering

7 Quarterly update on transportation projects

C. MoPac Projects





➤ **MoPac Improvement Project**



McCarthy: 46% Complete

Remaining Work

- Wall 4 Realignment at south of RM 2222
- Shared Use Path at 183/MoPac
- Westminster Wall
- Fence extensions

Recent Work



Fence Extensions



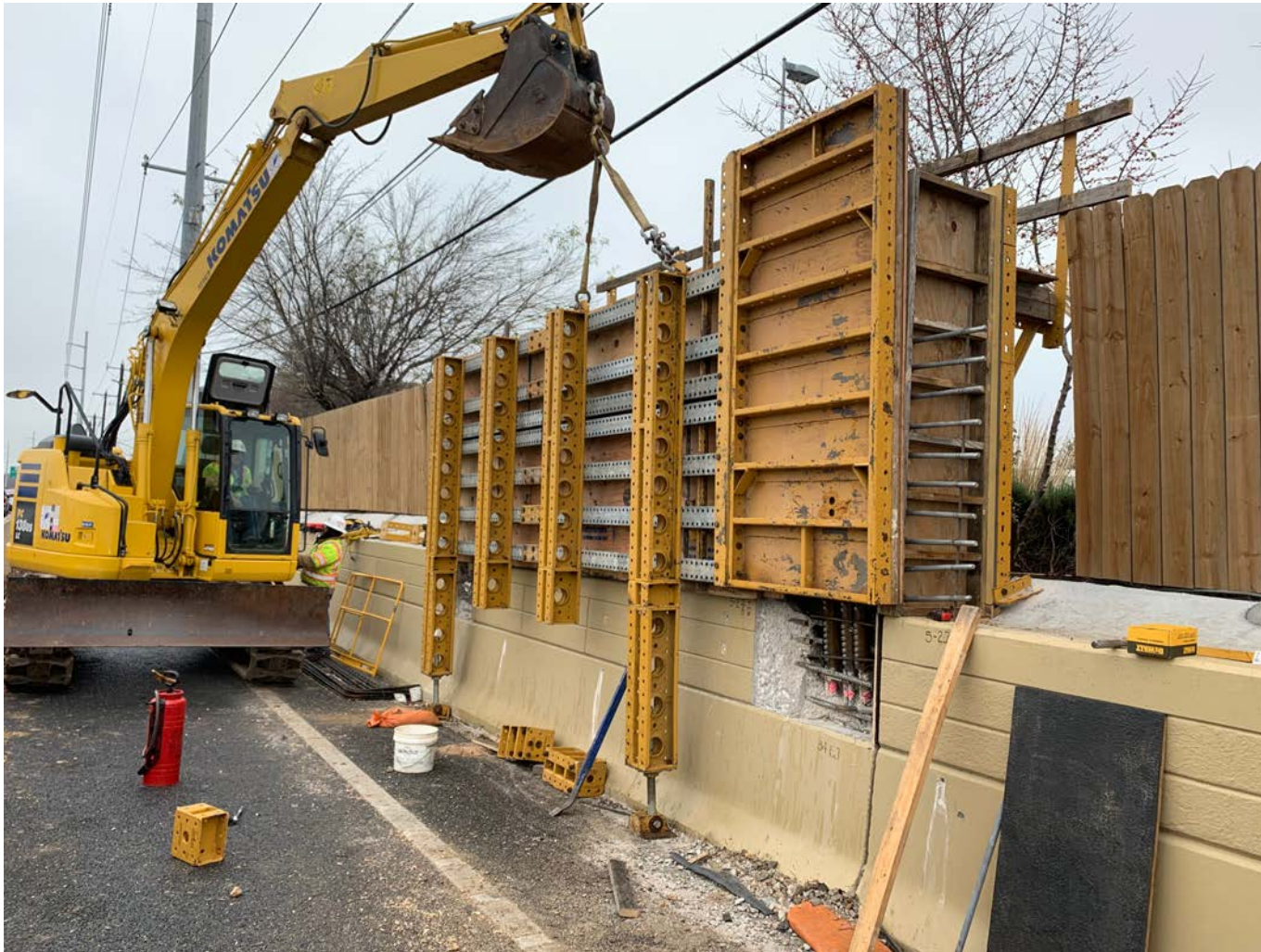
Wall 3 installation at RM 2222

Recent Work



Shared Use Path at MoPac & US 183

Recent Work



Westminster Wall



➤ MoPac Future Improvements



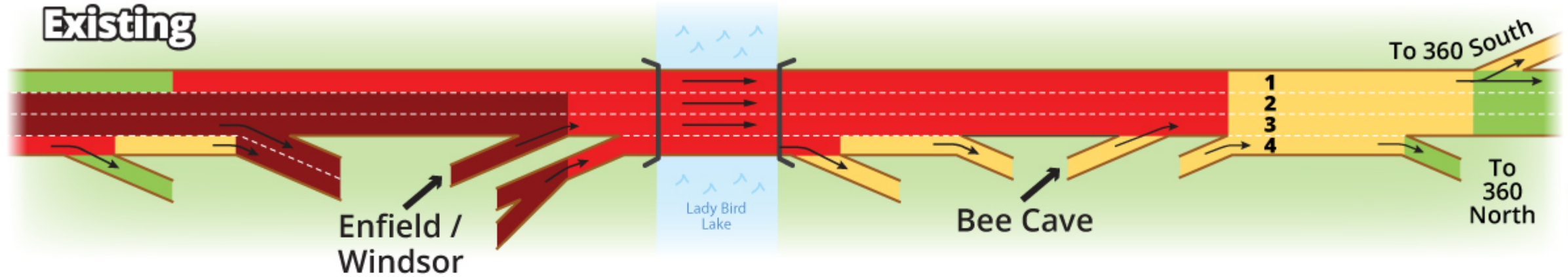
MoPac South Interim Options

- Goals
 - Reduce Congestion
 - Improve Travel Times and Reliability
 - Compatibility with MoPac South Environmental Study Options

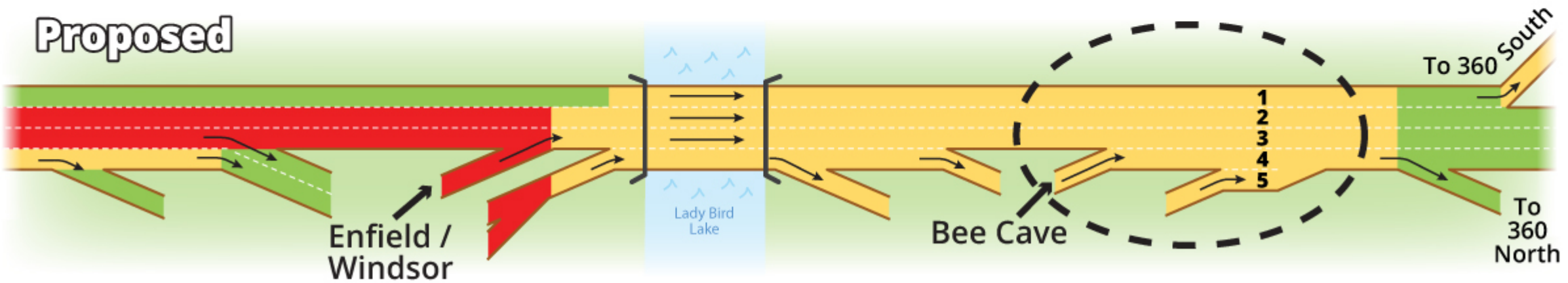
MoPac South



Existing

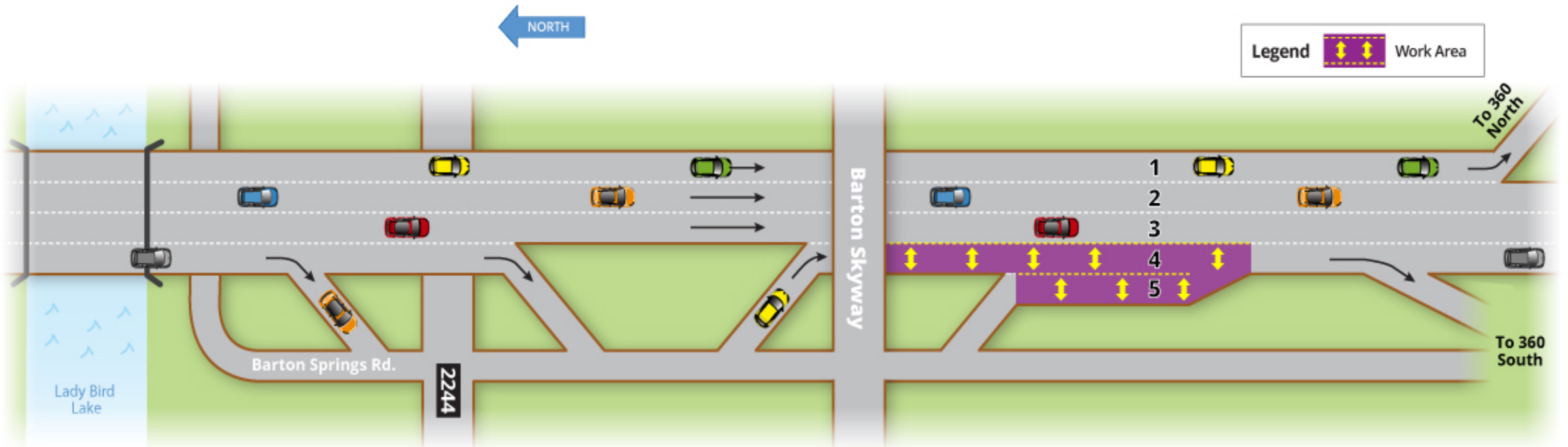


Proposed





Interim Option C





Interim Option C

- Meets Goals; Minimizes cost
- Project Timeline: 16 – 18 Months (Including Construction)
- Project Cost: \$10 - \$15 MM
- Traffic studies anticipated to be complete in February

Jeff Dailey, Deputy Executive Director

8 Briefing on Transportation Innovations





Transportation Innovation Initiative

■ Mobility Authority Strategic Plan

- Mission - To implement innovative, multi-modal transportation solutions that reduce congestion and create transportation choices that enhance quality of life and economic vitality

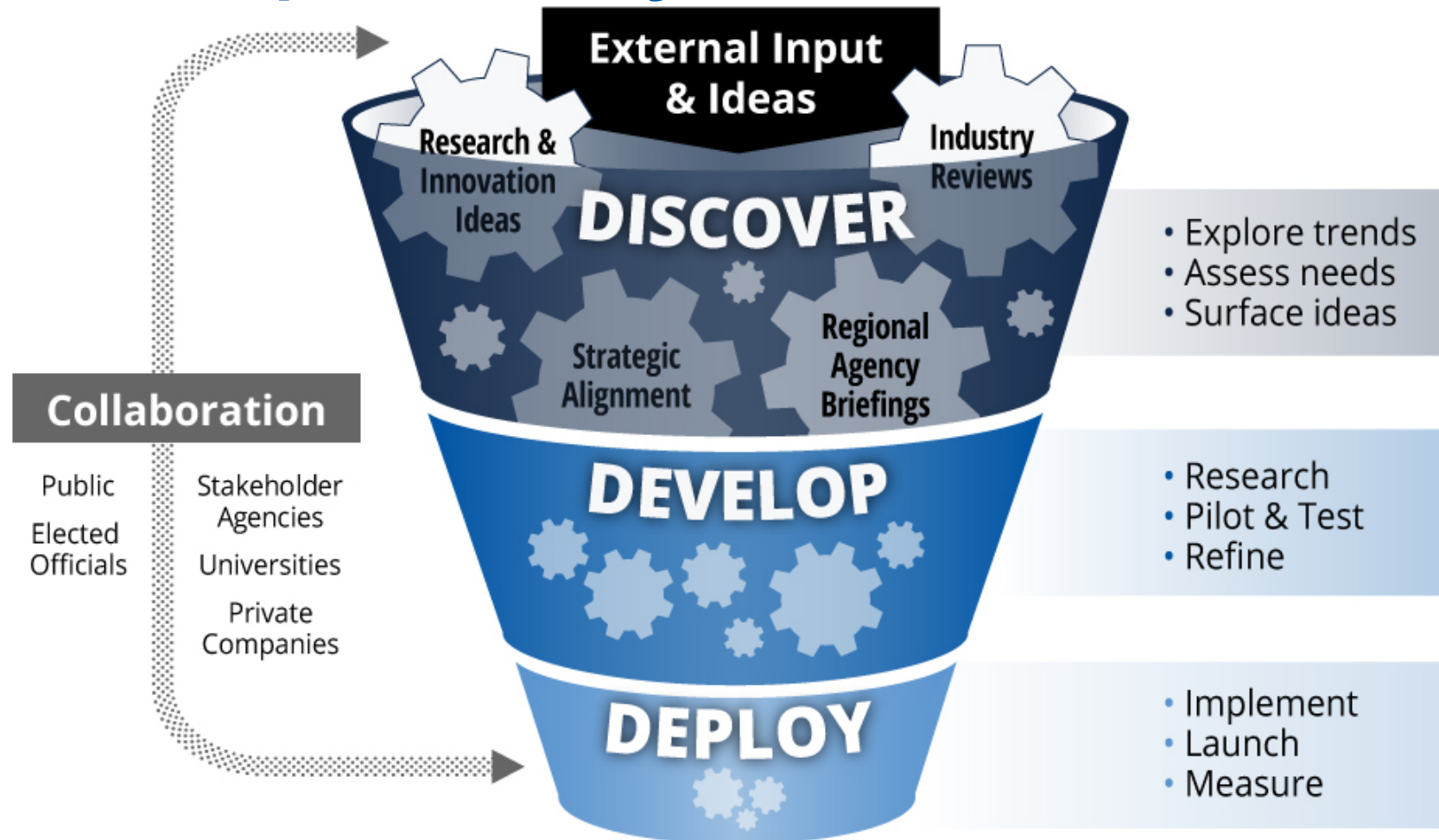
■ Goals

- Deliver *Multi-Faceted* Mobility Solutions
- Invest in Efforts that *Extend Beyond Roadways*
- Employ a *Collaborative Approach* to Implementing Mobility Solutions
- *Explore and Invest in Transformative Technology and Adopt Industry Best Practice*





Innovation process: dynamic, iterative & collaborative





Timeline



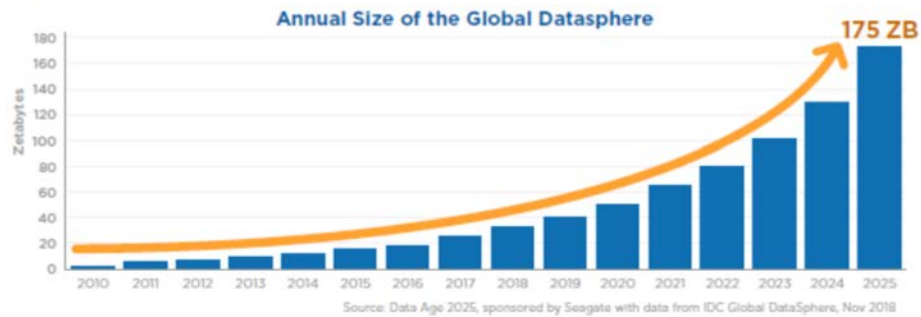
- **State Transportation Innovation Council**
- **Texas Technology Task Force**
- **Texas Innovation Alliance**

- **Team Central Texas / Austin**
 - TxDOT – Austin District
 - City of Austin
 - Central Texas Regional Mobility Authority
 - Capital Metro

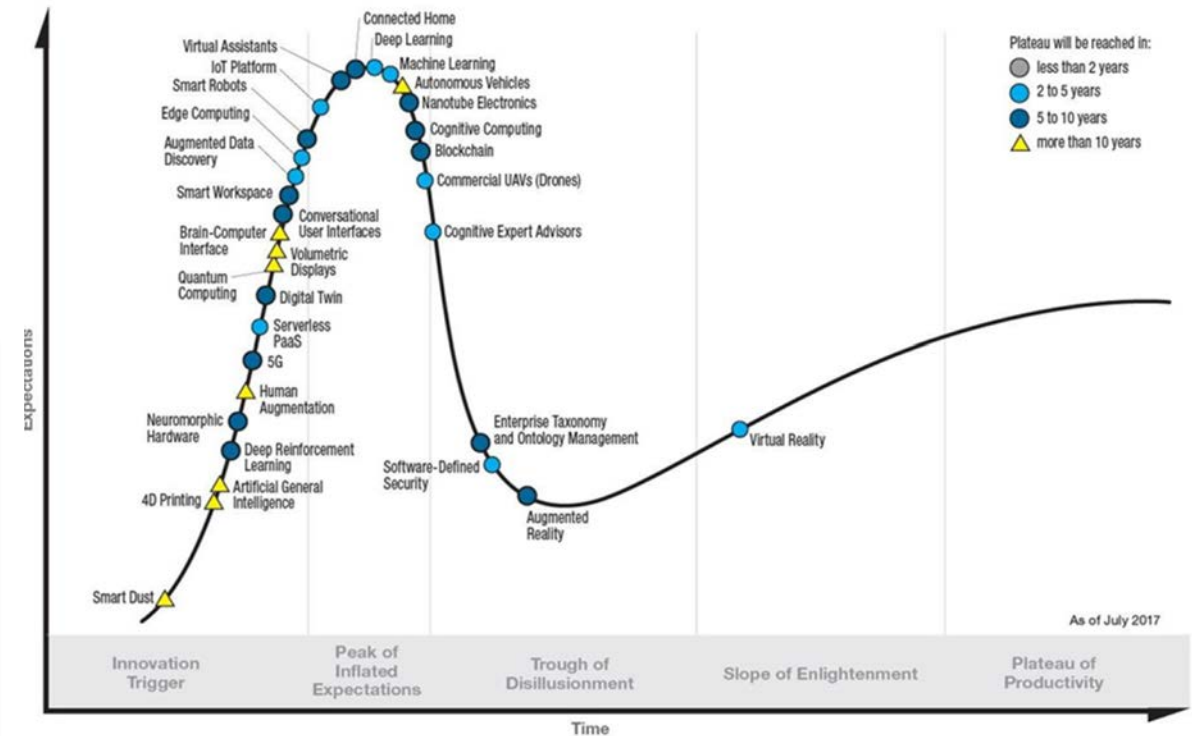


State of Industry

Figure 1 - Annual Size of the Global Datasphere



Gartner Hype Cycle for Emerging Technologies, 2017

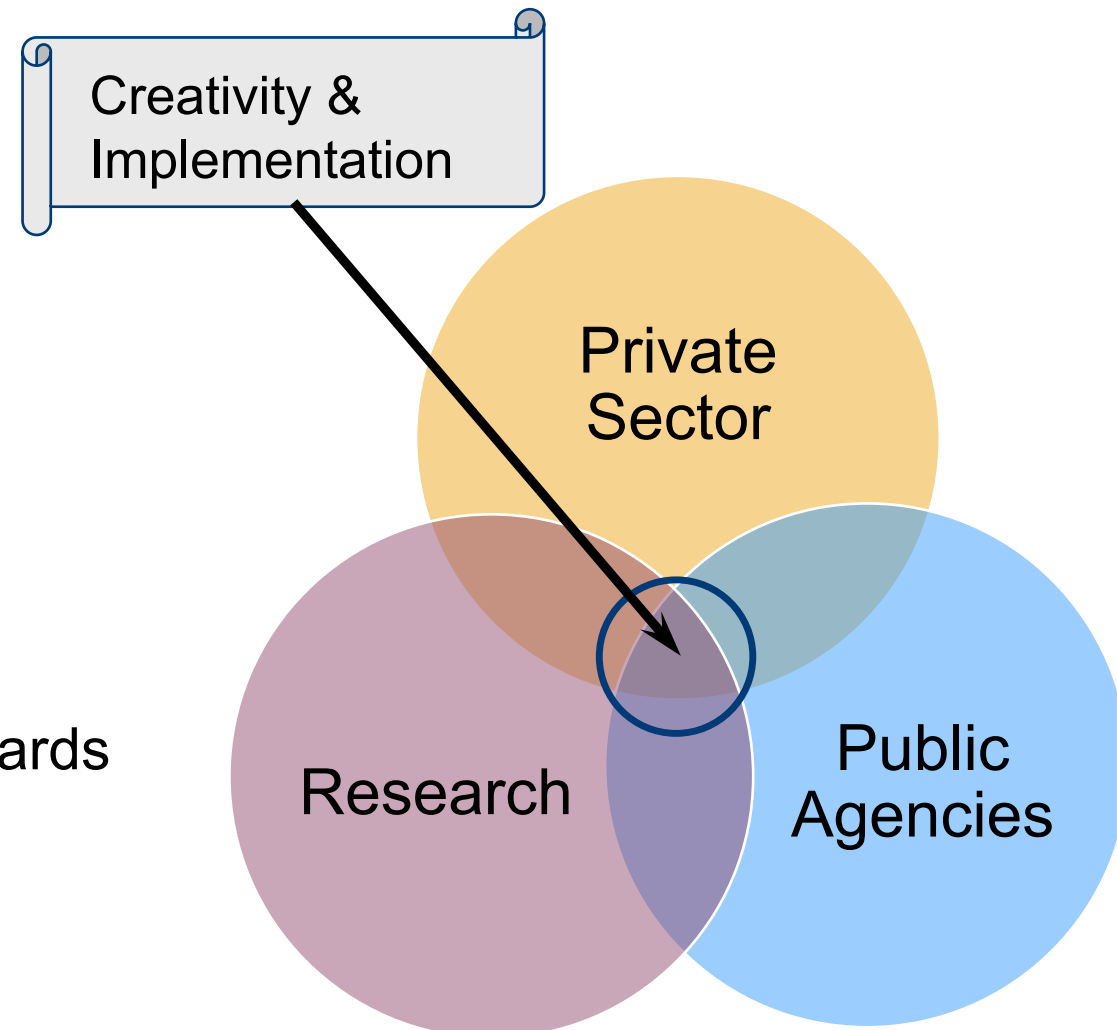




State of the Industry

Future – Testing and Advancements

- Autonomous Vehicles
- Shared Mobility
- Connected Roadways
- Communications – DSRC or 5G
- “Big” Data – Real-time / Data Sharing
- Equipment and Communication Standards
- Analytics





State of Industry – Roles

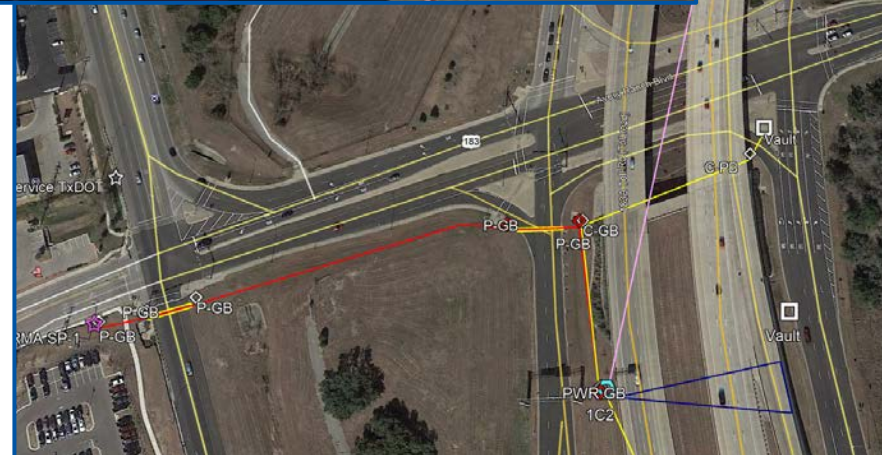
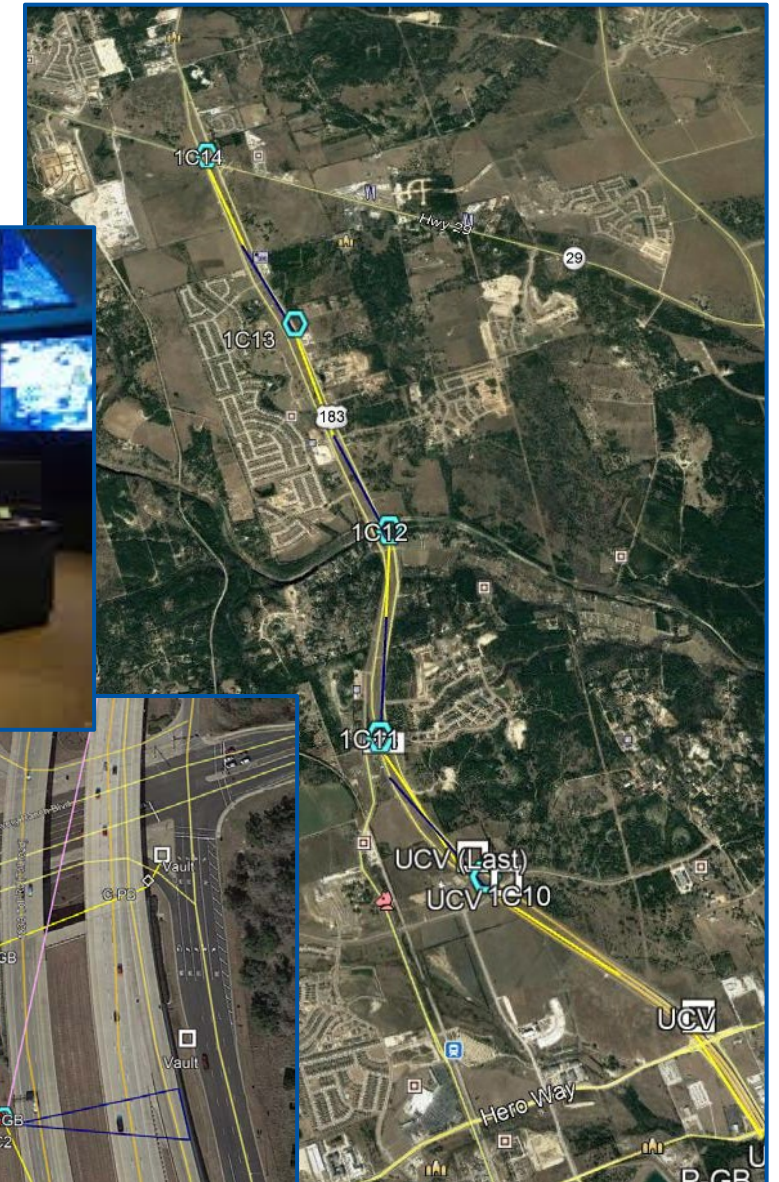
- Cities – parking, curb side, last mile, shared mobility, connected streets
- Regions – connected roads, facilitate transit, coordination
- States – connected roads and freight, innovation councils, research and practice
- National – demonstration funding, guidelines, standards
- Private Sector – products and service delivery

Public Sector Goal - implement measures to make the best use of our transportation systems – more efficient, reliable, safe, and equitable



Technology Plan

- Connected Corridors
- Data Sharing Hub
- Technology Foundation
 - Toll Systems
 - Intelligent Transportation Systems (ITS)
 - Reporting and Analytics





Data Sharing Example

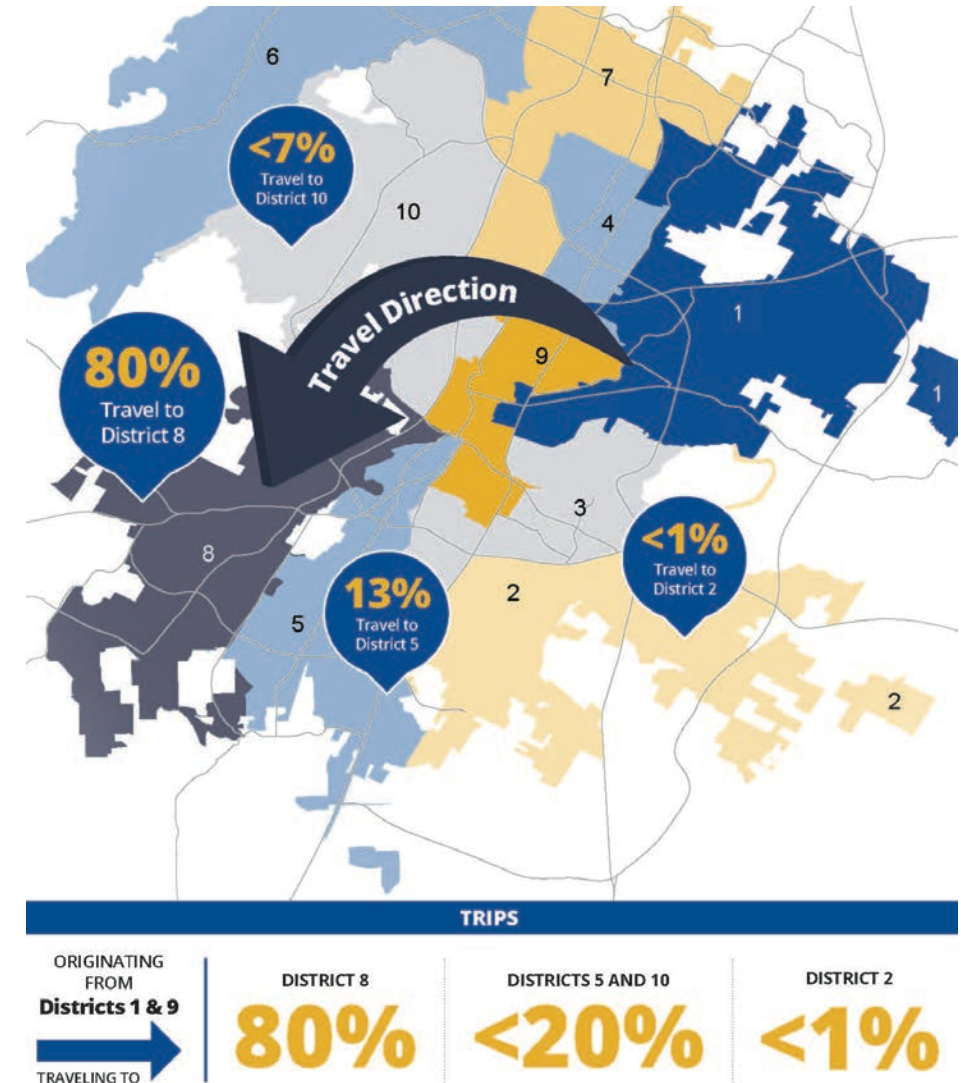


MoPac Toll Rate	
01/23/2019 4:38 PM	
Northbound	
2222 to Parmer	
TxTag: \$3.08	Mail: \$4.62
CVZ to 183	
TxTag: \$3.79	Mail: \$5.69
CVZ to Parmer	
TxTag: \$6.87	Mail: \$10.31
Southbound	
2222 to 5th/CVZ	
TxTag: \$5.99	Mail: \$8.99
Parmer to 2222	
TxTag: \$0.30	Mail: \$0.45
Parmer to 5th/CVZ	
TxTag: \$6.29	Mail: \$9.44



Research Plan

- Emissions and Fuel Consumption Analyses
- Understanding Traveler Use of MoPac Express Lane
- Customer Satisfaction
 - Survey
 - Web-based Survey Panels
 - Focus Groups
- Wrong-Way Driving Characteristics, Mitigation, and Planning
- Origin and Destination





Next Steps

- Connected Corridor – Design and Implement
 - 183A, 183 North, MoPac Express Lane
 - Cameras, Incident & Wrong-Way Driver Detection / Alerts
 - Traveler Information
- Technology and Toll Platform – Future Ready
- Research Agreements - Texas A&M Transportation, Center for Transportation Research
- Procurements
 - ITS Integrator and Data Platform
 - Habitual Violator Detection System
 - Incident Detection System
- Central Texas Partnership

The background image shows a perspective view of a multi-lane road. On the right side of the road, there is a signpost with three signs: 'NORTH', '183 A', and 'TOLL'. The scene is overlaid with a blue tint and a white grid pattern.

9

Executive Director Board Report

A. Upcoming Procurements

A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. In the background, there are utility poles and a building on the left.

9

Executive Director Board Report B. Workforce Update

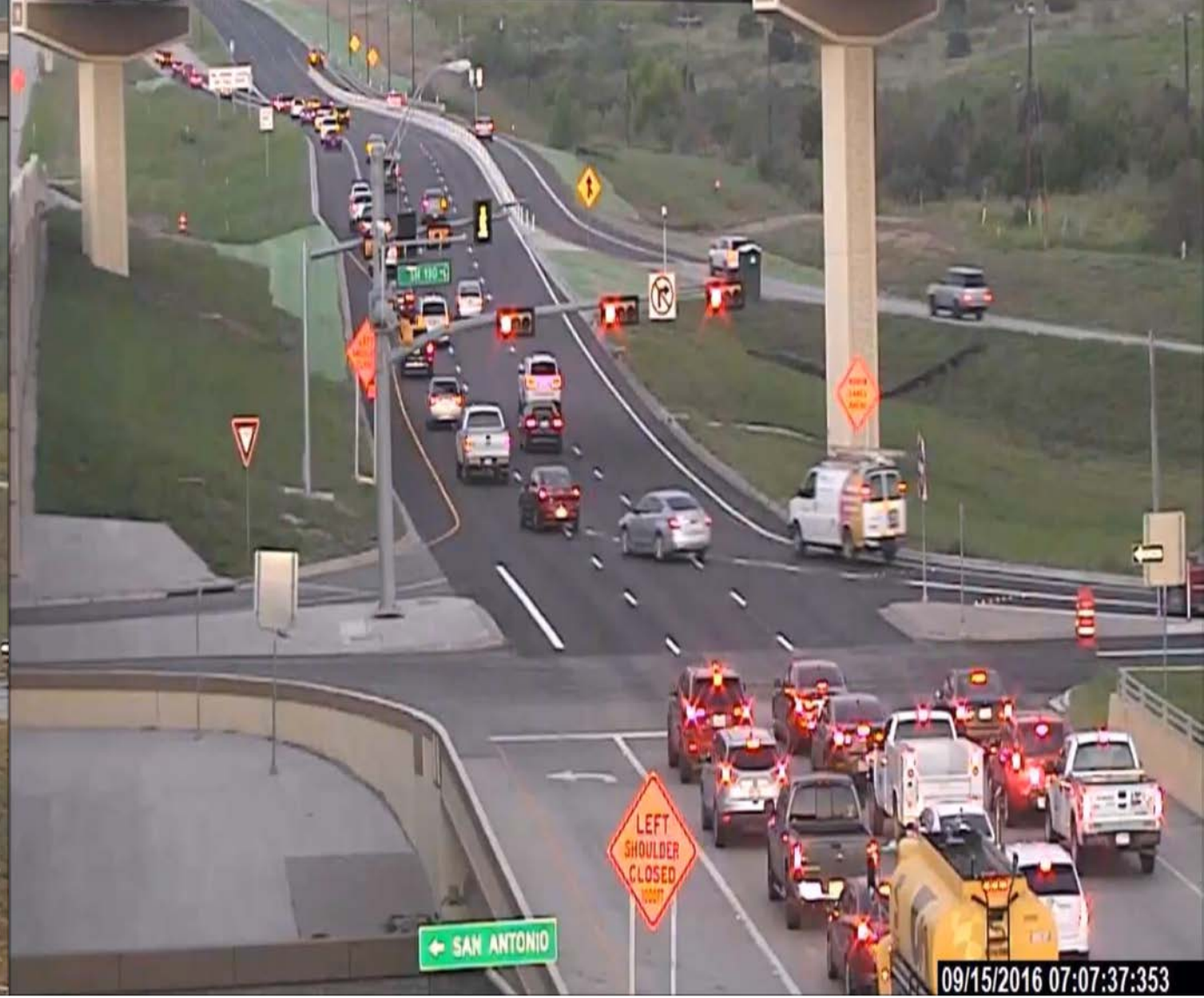
The background image shows a perspective view of a road with a concrete barrier on the right side. In the distance, a signpost holds two signs: the top one says 'NORTH' and the bottom one says '183 A' with a circular arrow icon and the word 'TOLL' below it. The entire image is overlaid with a semi-transparent blue filter.

9

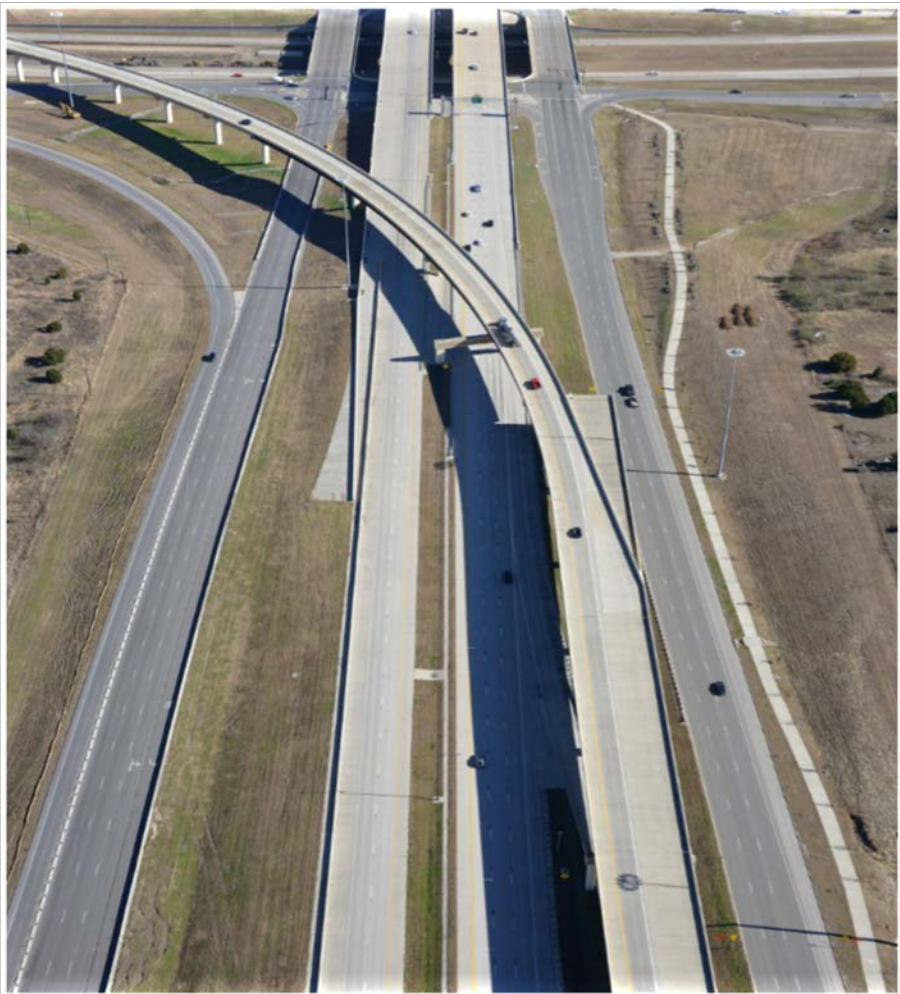
Executive Director Board Report C. Legislative Update



9 Executive Director Board Report
D. 290E Phase III Project
Groundbreaking Ceremony



Existing Versus Future



A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. In the background, there are utility poles and a building on the left. The sky is blue with some clouds.

> **Executive Session**
Agenda Items 10-12



➤ **Reconvene in Open Session**

The background image shows a perspective view of a multi-lane road stretching into the distance. On the right side of the road, there is a concrete barrier with rounded posts. Further right, a grassy shoulder leads to a sidewalk and utility poles. A prominent signpost on the right side of the road features three stacked signs: 'NORTH' at the top, '183 A' in the middle, and a circular arrow icon with the word 'TOLL' below it. The sky is blue with scattered white clouds. The entire image is overlaid with a semi-transparent blue filter.

> **Regular Items**
Agenda Item 13

A blue-tinted photograph of a road. On the right side, there is a signpost with three signs: 'NORTH', '183 A', and a 'TOLL' sign with a circular arrow icon. The road has a concrete barrier on the right and a building on the left. The sky is blue with some clouds.

13 Adjourn meeting



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Thank You

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