

Regular Meeting of the Board of Directors



CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY

February 26, 2020

Welcome and opportunity for public comment



1

Bobby Jenkins
Chairman

Discuss and consider dedicating a portion of the 183A Phase II Project in honor of the service provided by former Mobility Authority Chairman Ray A. Wilkerson

2

Mike Heiligenstein

Executive Director

Audit Committee Meeting

- A. Audit Committee meeting called to order by Committee Chairman Singleton
- B. Authorize the engagement of a firm to provide independent auditing services
- C. Adjourn Audit Committee



3

Approve the minutes from the January 29, 2020 Regular Board Meeting



4

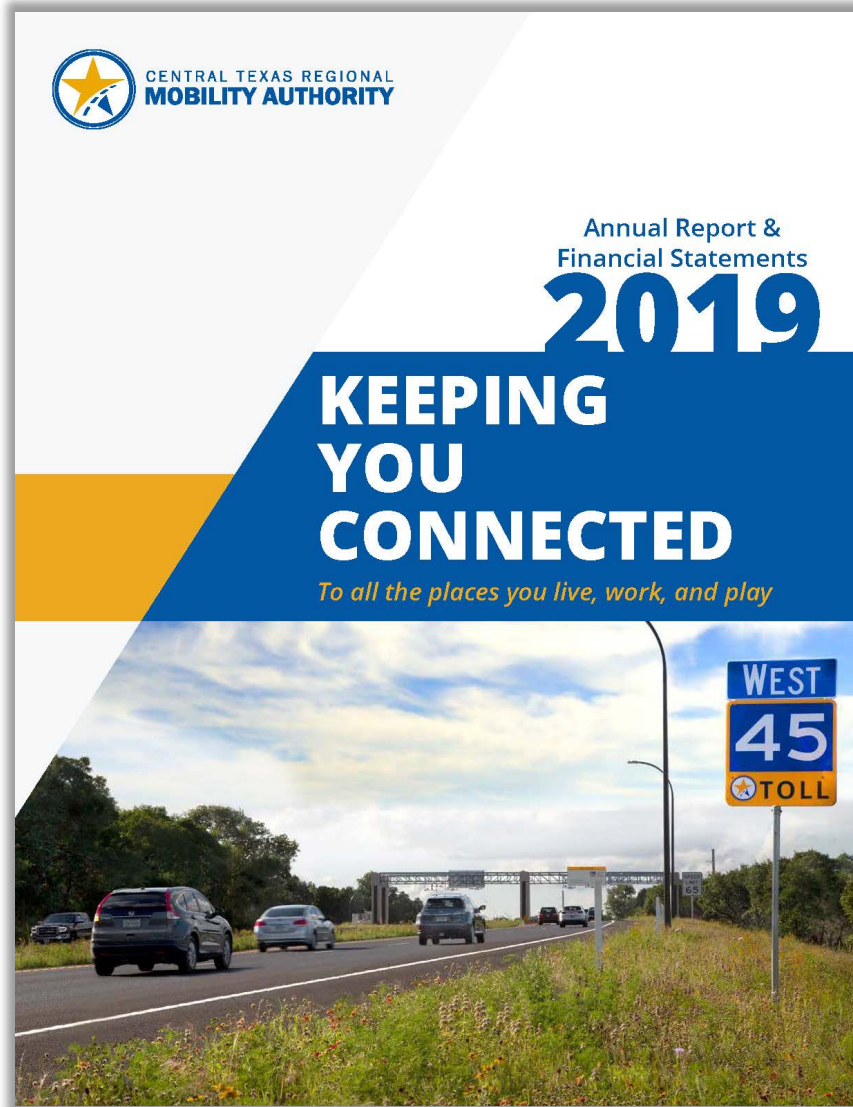
Bobby Jenkins
Chairman

Approve and adopt the 2019 Mobility Authority Annual Report

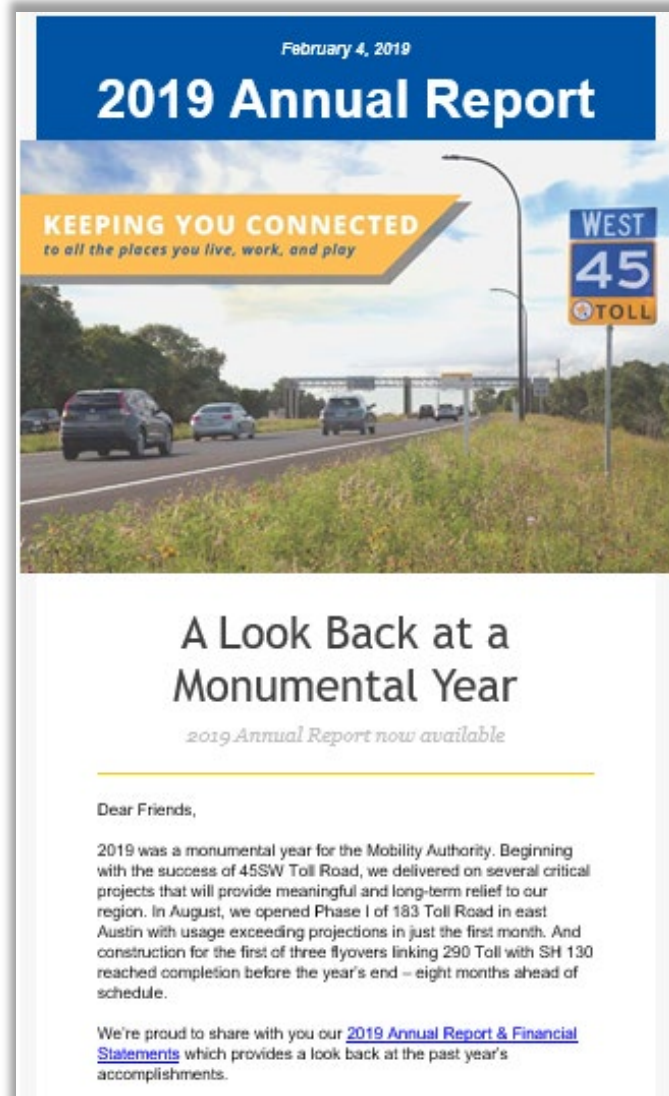
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Dee Anne Heath

Director of Government Relations and Communications



- » Our yearly review of the agency and its performance against the Strategic Plan
- » Features key projects and financial statements
- » Required as part of the Texas Administrative Code



- » **Distributed digitally** to an extensive list of elected officials, key stakeholders and agency e-newsletter subscribers
- » **Printed copies** available upon request and provided to investors
- » **Available on website**



A Dynamic Resource

- » **Evolved** from a required milestone to a dynamic resource
- » Demonstrates commitment to
 - » transparency
 - » fiscal responsibility and accountability
 - » dependability and dedication to public service
 - » visionary leadership



Overview





our board OF DIRECTORS

We are governed by a seven-member board of directors responsible for setting policies, identifying priority projects, and ensuring the agency is operated in an efficient, effective, and transparent manner. Our volunteer members are appointed by our founding counties and serve two-year terms.

A SPECIAL THANK YOU...

to our outgoing chairman, Ray A. Wilkerson, for 10 years of dedicated service to Central Texas. We appreciate the many benefits his time and expertise made possible for the region.



Bobby Jenkins
Chairman
Gubernatorial Appointee — 2019



Nikelle S. Meade
Vice-Chair
Travis County Appointee — 2012



David B. Armbrust
Board Member
Travis County Appointee — 2012



John Langmore
Board Member
Travis County Appointee — 2018



David Singleton
Board Treasurer
Williamson County Appointee — 2003



Mark Ayotte
Board Secretary
Williamson County Appointee — 2017



Mike Doss
Board Member
Williamson County Appointee — 2019



Mike Heiligenstein
Executive Director
Since 2003



many faces **ONE VISION**

Our team of dedicated employees loves the Central Texas region as much as you do and we are committed to preserving and improving everything that makes it great. We wear many hats when it comes to being Central Texans. Here is what some of us have to say about living and working in Central Texas:



“
By working at the Mobility Authority, I am able to see first-hand how my contributions impact my family and our quality of life. Not many people get to say that. I am truly blessed.
”

TRACIE BROWN,
Director of Operations



“
I use the Mopac Express Lane to get home as fast as I can to these munchkins.
”

GREG MACK,
Assistant Director of IT and Toll Systems

“
As a native Austinite there is no other place I'd rather live, work, and play.
”



DEE ANNE HEATH,
Director of Communications and Government Relations

“
My main motivation at the Mobility Authority is to help others like me who want to get home to our families and experience the important events in our kids' lives.
”



OSCAR SOLIS,
Senior Project Manager

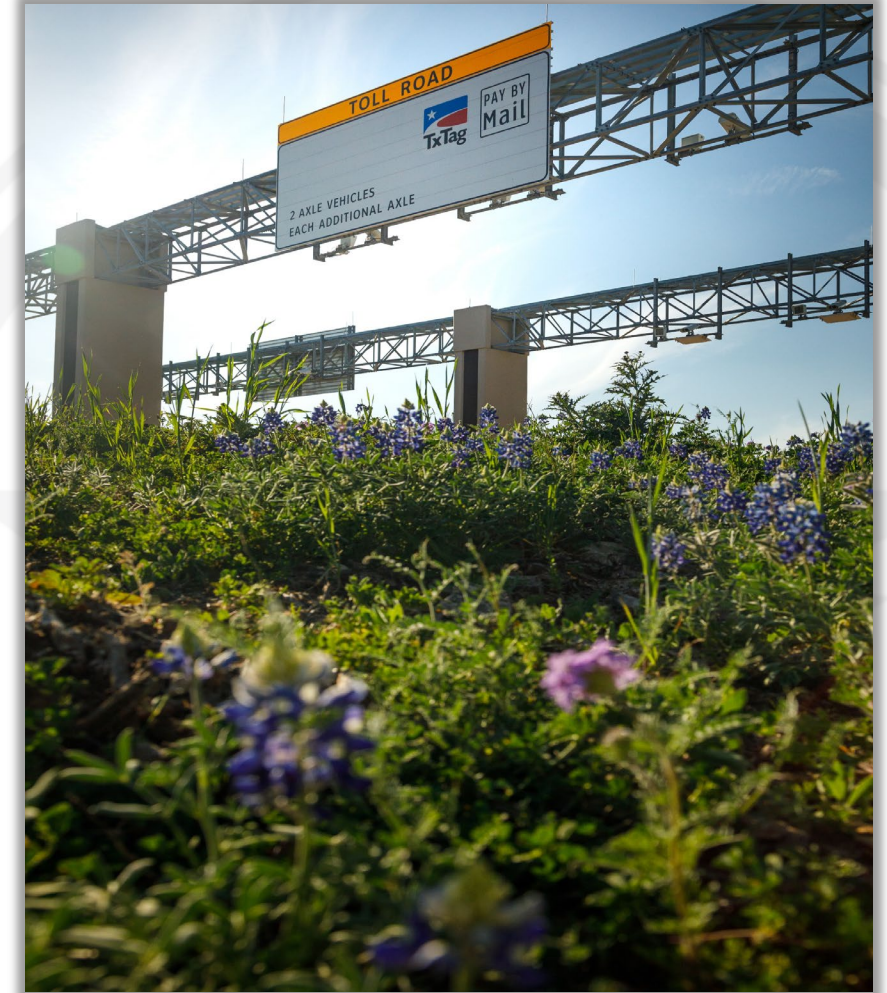


“
Getting the chance to work on the biggest projects in the region making some of the biggest differences in people's lives is awesome. Getting to see it all built is even better.
”

MIKE SEXTON,
Assistant Director of Engineering



Building New Connections



- » **Saves up to 11 minutes** in travel time
- » **Reduced neighborhood traffic** by 30 percent
- » Average weekday transactions are **30 percent higher than projections**



Building New Connections



» Phase 1: average weekday transactions were **220 percent above projections** during the first month of tolling



As we eagerly await the completion of the 183 South project, I applaud the Mobility Authority's design, which will offer our customers improved access from the north and south."

– Charley Wilson, Callahan's General Store





Building New Connections



- » South-to-west direct connector opened January 2020 – **eight months ahead of schedule**
- » Project completion anticipated for 2021



Beyond the Pavement



TRAIL EXPLORER BY CTRMA

10

2 Comments 2 Shares

Like

Comment

Share



Jo Hunter I love that app, they're not lying, it is a lot of fun 😊 Alan Hunter and I enjoyed seeing oak trees and sunflowers grow before our eyes.

Like · Reply · 2w

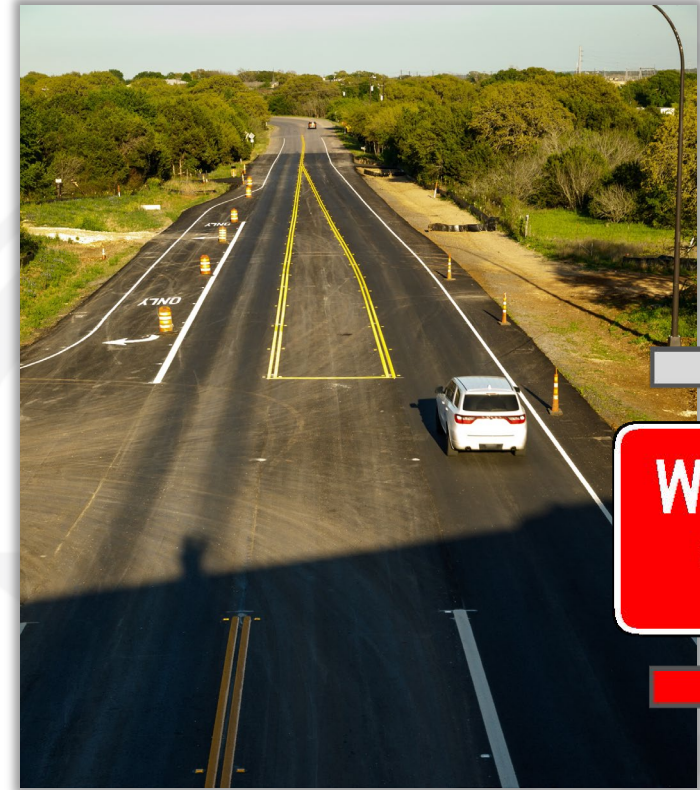
3



Brian Rademacher Cool app!

Like · Reply · 2w

1



kxan

AUSTIN

New highway's technology will be able to detect wrong-way drivers



Beyond the Pavement

MOVE FWD A Workforce Collaborative of Central Texas



28 graduates and 17 students registered for January 2020

METRO



Express Bus ridership increased by 161 percent on certain routes



2019 Financial Statements

- The Mobility Authority's current total assets grew to roughly \$2.475 billion
- The Mobility Authority experienced a roughly 18 percent growth in operating revenues over the previous year



Accept the financial statements for January 2020

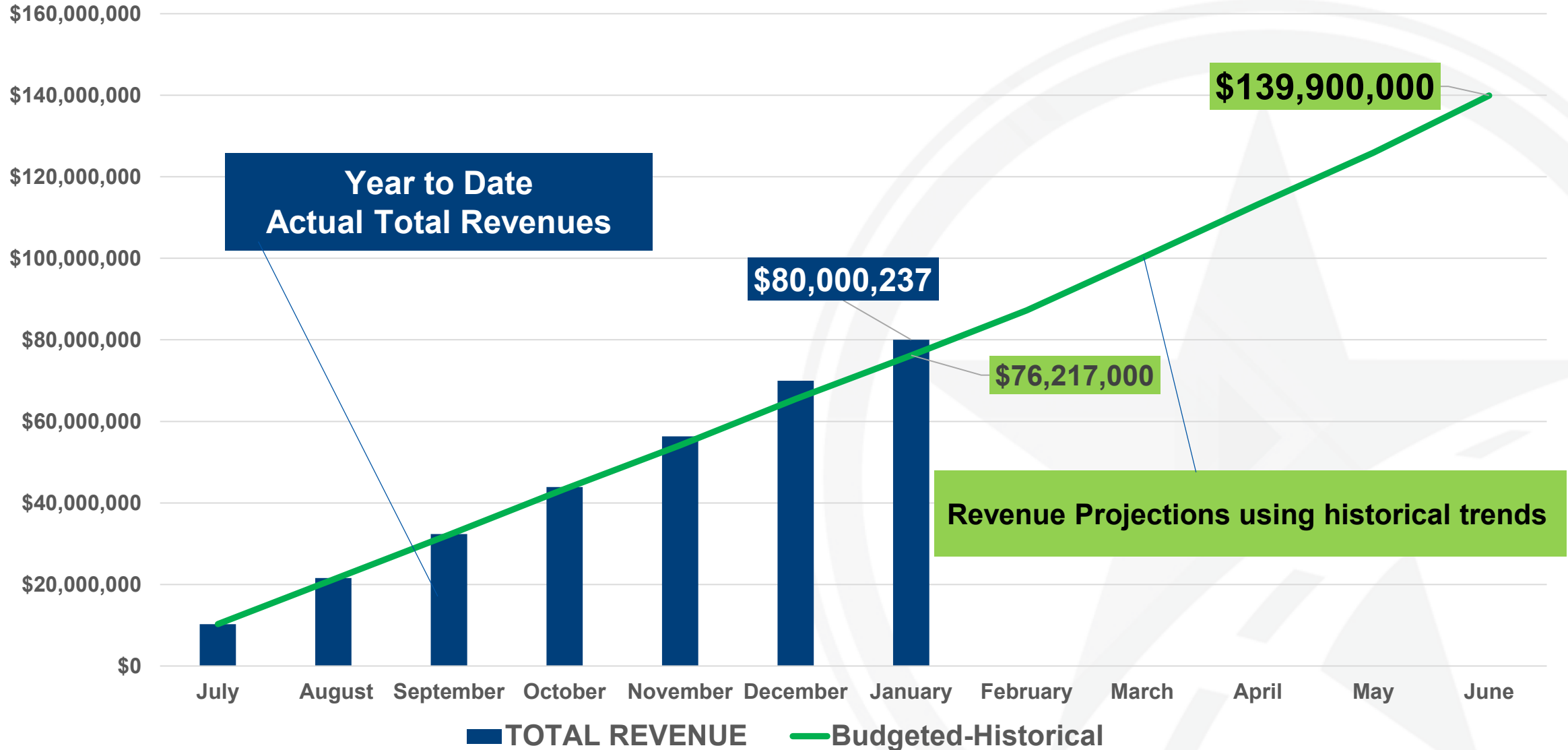


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Mary Temple
Controller

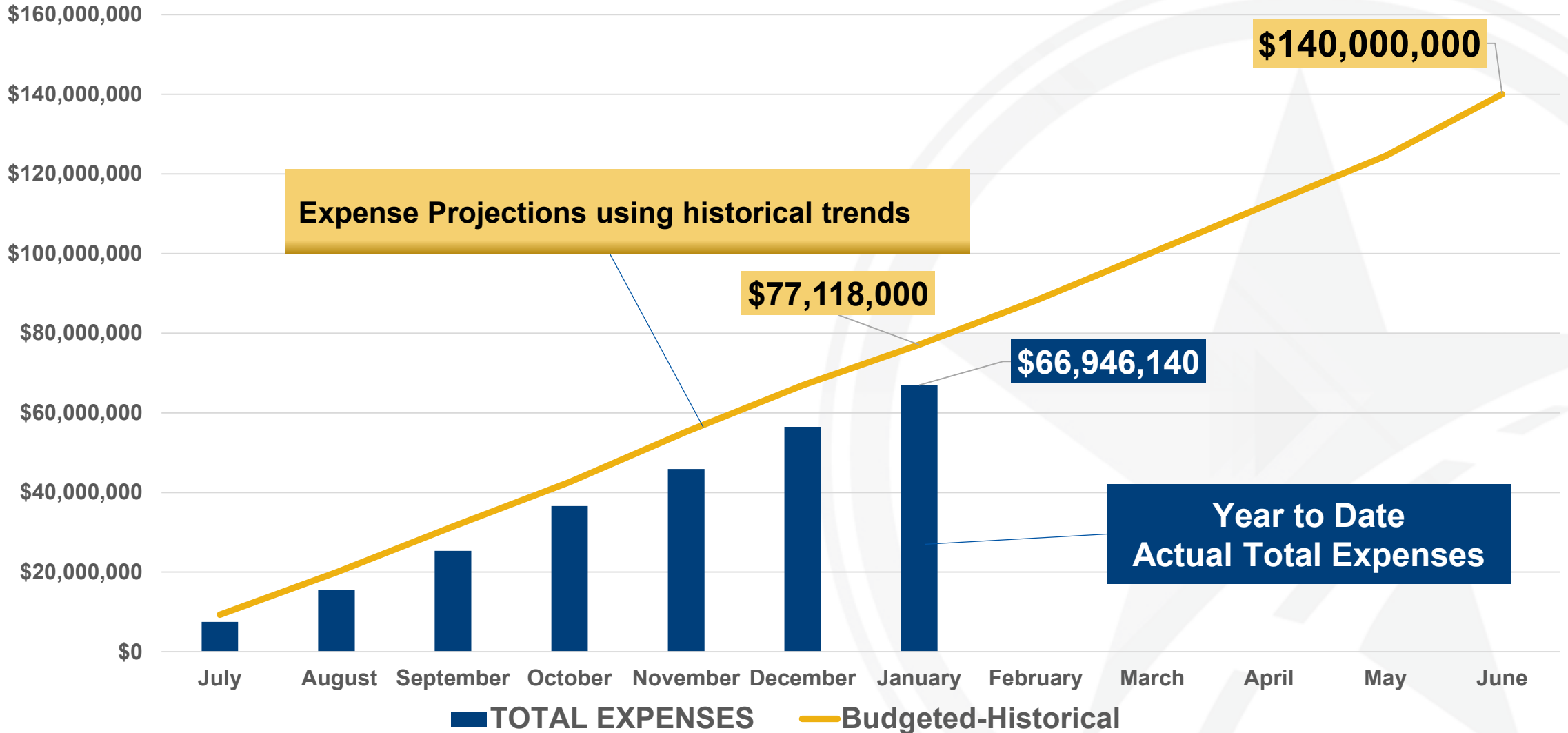


Actual vs Budgeted Revenue





Actual vs Budgeted Expenses



Discuss and consider awarding a contract for financial advisory services

7

Bill Chapman

Chief Financial Officer

Discuss and consider approving an agreement with Luna Data Solutions Inc. for the implementation and licensing of a video sharing system to support regional incident response coordination

8

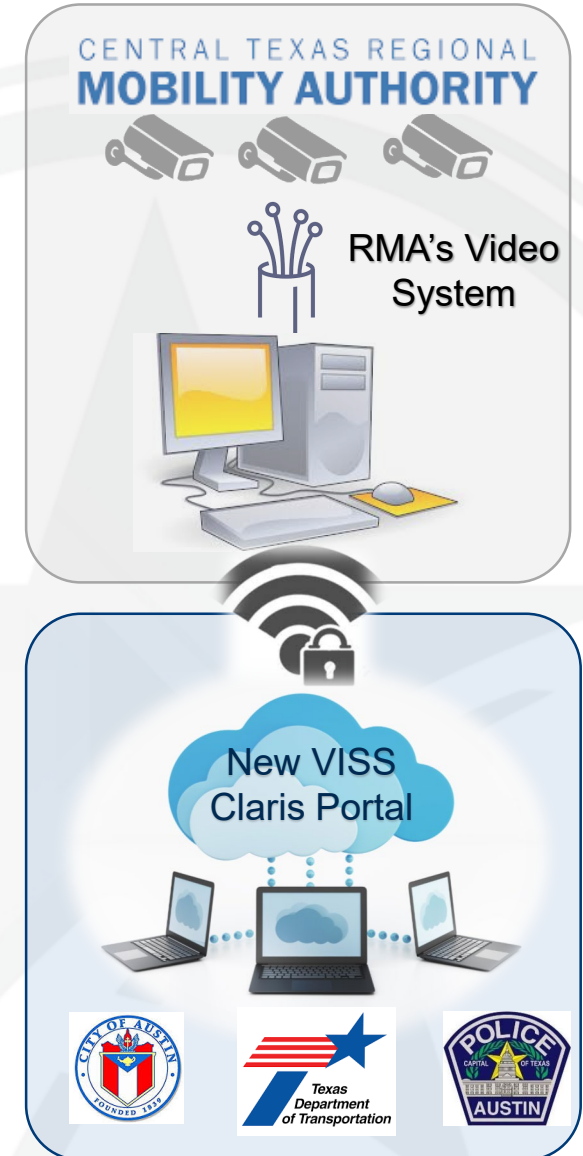
Tracie Brown

Director of Operations



VISS Solution Description

- » The Mobility Authority's current video system is a secured closed video system that will be kept as-is for RMA's operational needs
- » A new cloud-based Video Interoperability and Sharing System (VISS) will be implemented and connected to the current video system to publish video streams over the internet
- » The new VISS will share the Authority's CCTV video streams with its regional partners (TxDOT, COA, APD, HERO, etc.) to improve coordination and incident response



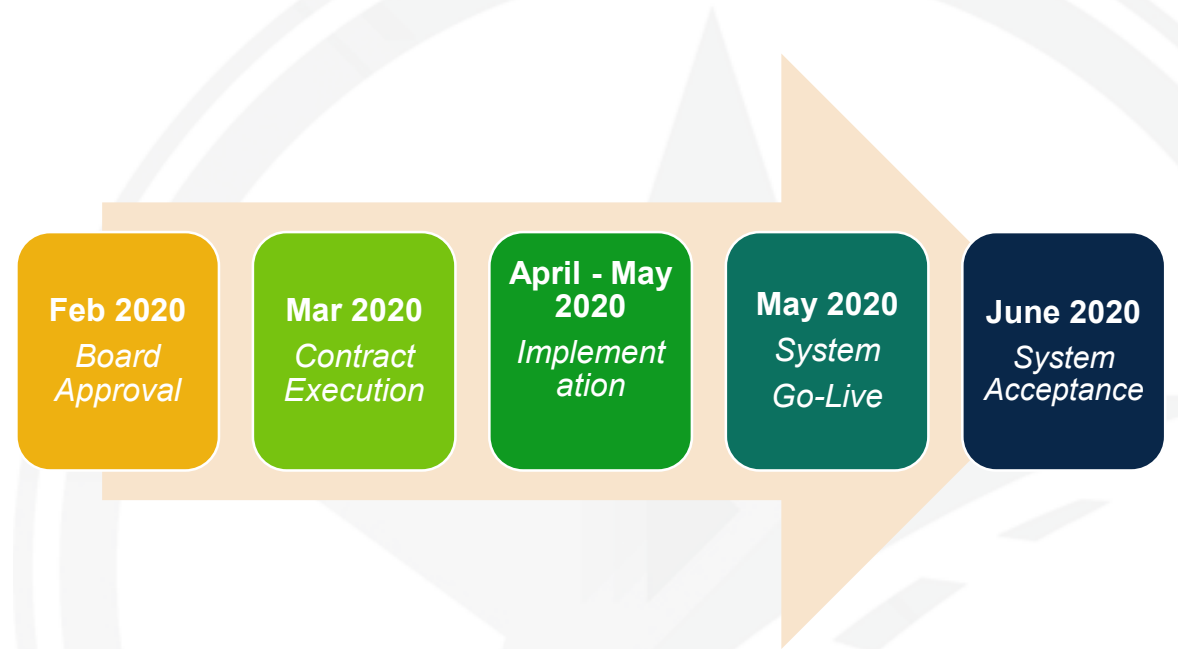


Project Cost Items:

» VISS Initial Implementation	\$ 50,000
» 1 st Year Subscription	\$ 64,000
» 2nd Year Subscription	\$ 64,000
» 3 rd Year Subscription	\$ 64,000
» Project Contingency (10%)	\$ 11,400
TOTAL *	\$253,400

** Project total does not include the optional year 4 renewal at \$64,000, required telecommunications circuit upgrades or additional firewalls.*

Project Milestones (Planned):



Discuss and consider approving an agreement with Ford-Audio Visual Systems, LLC for conference room technology updates

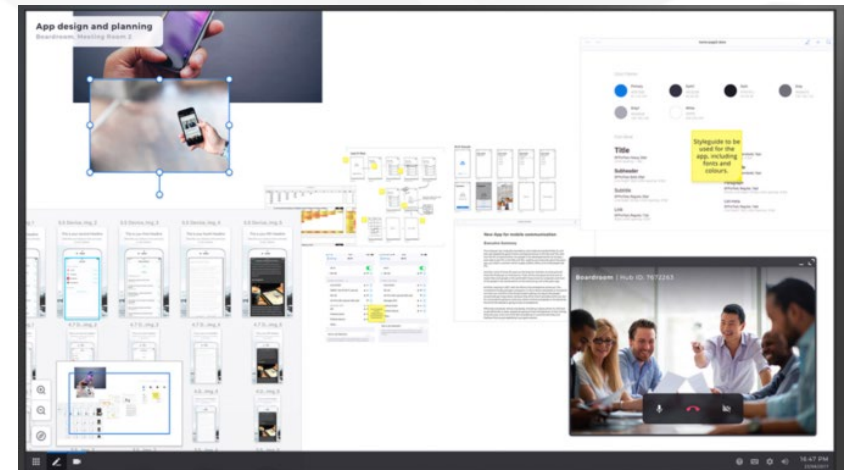
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Tracie Brown
Director of Operations



Project Description

- » Installation of upgraded audio, phone and video equipment in the Board Room and all conference rooms
- » Includes wireless audio & presentation equipment
- » Large format displays with touchscreen, video and digital whiteboard capability





» Project Cost

» Hardware	\$ 99,950.00
» Integration	\$ 64,359.52
» TOTAL	\$164,309.52

» Project Schedule

- » Prepare system drawings, purchase equipment, assemble equipment, program control software and in-shop testing (*10-12 weeks*)
- » On-site installation, testing and commission (*4 weeks*)

Discuss and Consider Approving Amendment No. 1 to the Interlocal Agreement with the Texas A&M Transportation Institute for a Technology Corridor Strategy

10

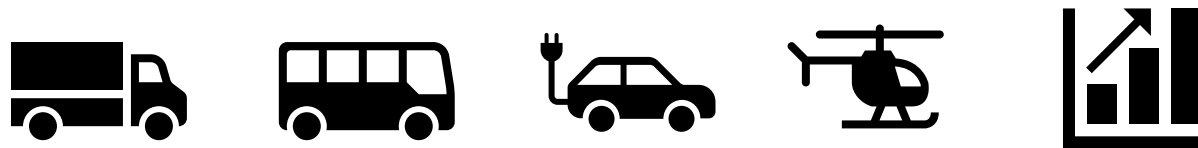
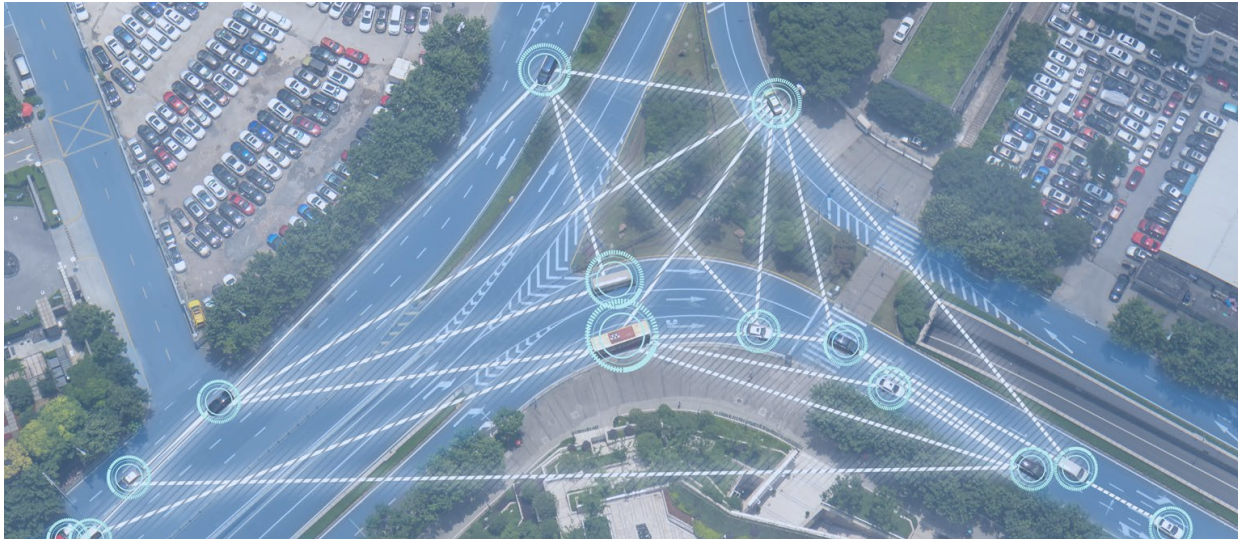
Jeff Dailey, Deputy Executive Director
Mia Zmud, Mobility Innovation Manager



Innovation Strategy

Mission:

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





Texas A&M Task Assignments

- » Existing ILA – Board approved March 2019
- » Three research tasks in-progress, one completed

1

Customer Experience Survey



In Progress – Set priority action items to improve customer experience (June 2020)

2

MoPac Express Travel Behavior Analytics



In Progress – Improve ability to predict future demand and plan for Express Lanes (Sept. 2020)

3

Wrong Way Driving Characteristics and Mitigation Measures



In Progress – Apply process to future roadways; Inform Roadway Technology Plan (June 2020)

4

Industry Scan of Online Survey Panels



Complete – Supported decision to pursue an ‘off the shelf’ panel platform in Spring 2020

5

NEW
Develop Technology Corridor Strategy

Status:



Data collection



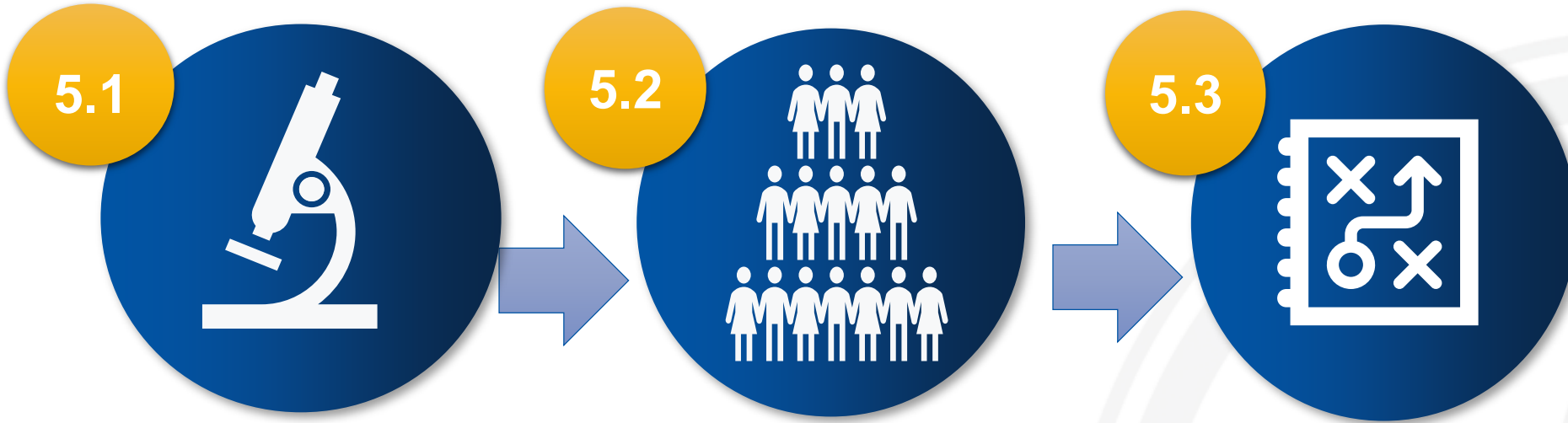
Data analysis



Brief Presented/Complete



Task 5 Overview



Research & Planning

- Current and planned technology
- Public survey on emerging technology
- Stakeholder interviews
- Collaboration vision and process
- Connected Vehicle Pilot Project Evaluation Plan
- March – June

Partner Support

- Workshop
- Vision and goals
- Value proposition
- Collaboration Strategies
- April – June

Develop Strategy

- Workgroup meetings
- Project / technology selection process
- Project evaluation and deployment process
- August – November



**Technology
Corridor
Strategy**



» Task 5 / Amendment No. 1

- » Scope: Develop Technology Corridor Strategy
- » Schedule: March 2020 through November 2020
- » Cost: \$250,000
- » ILA Term: Extends term through June 30, 2021

» Requested Action

Approve Amendment No.1 to the Interlocal Agreement with the Texas A&M Transportation Institute for a Technology Corridor Strategy

Discuss and consider approving an Interlocal Agreement with the Capital Area Rural Transportation System to provide funding for the Eastside Bus Plaza transfer facility

11

Jeff Dailey, P.E.

Deputy Executive Director



CARTS Eastside Bus Plaza

C CARTS Eastside Bus Plaza

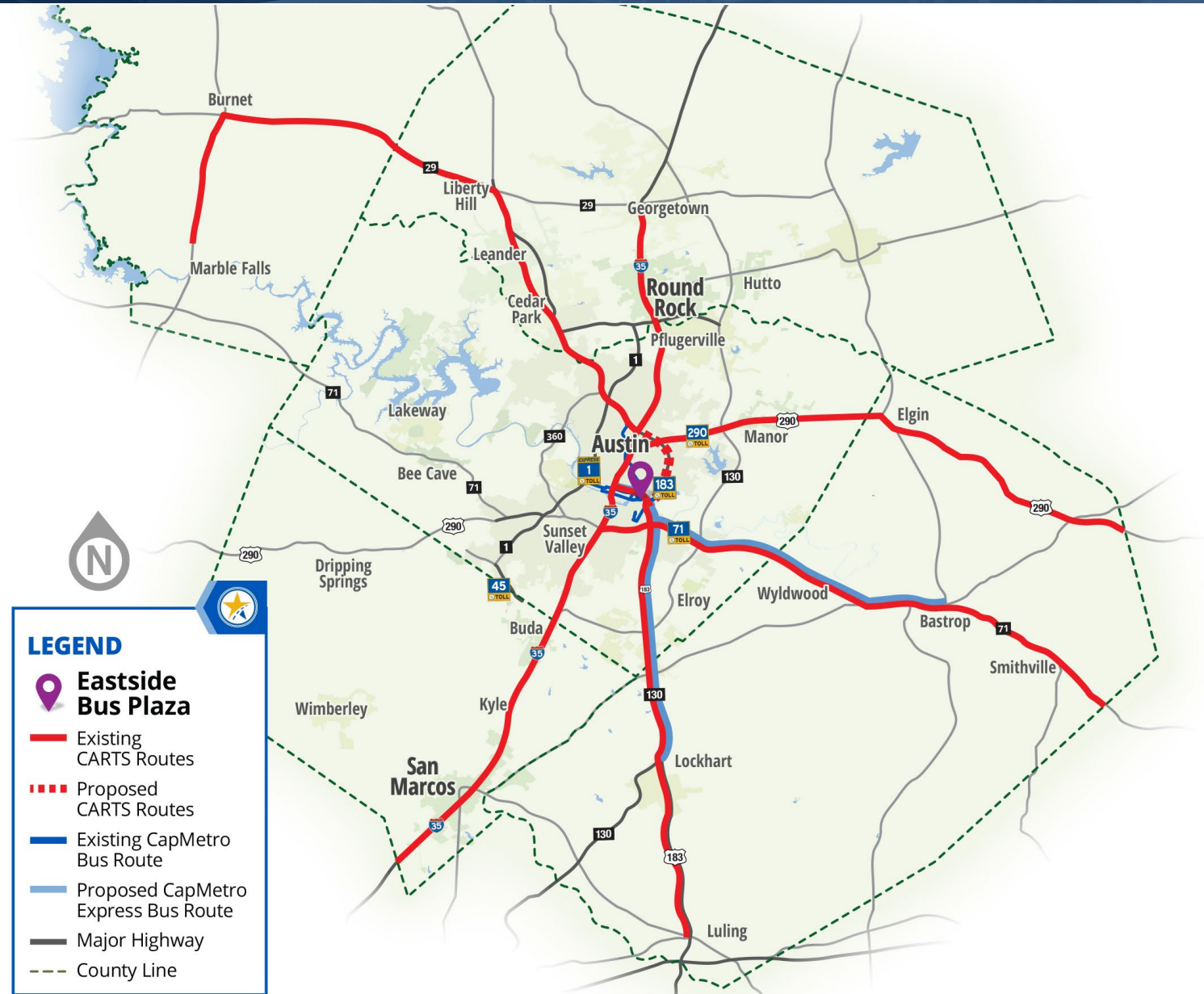


- » Multi-modal station includes 2,200 sq. ft. passenger terminal and 10 bus bays
- » Allowable use by Mobility Authority for toll payment and customer service functions
- » Marketing of Mobility Authority and funding contribution
- » \$7,540,000
- » \$400,000 from Mobility Authority
- » Complete early 2021



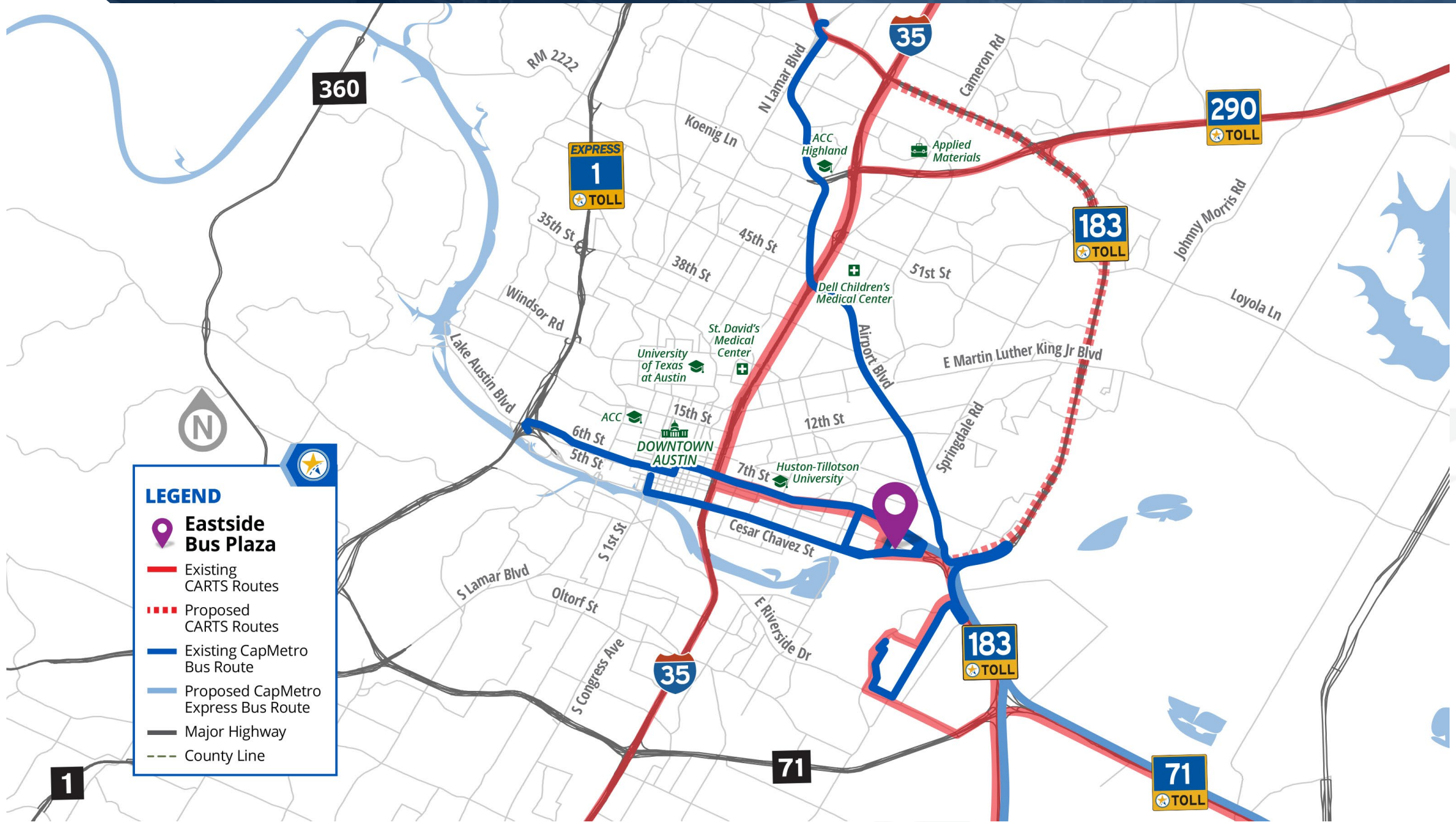
CARTS Eastside Bus Plaza

- » Serve as interface between CARTS Interurban Coach service (28 daily connections) and Capital Metro routes (106 daily connections)
- » Prototype for future Project Connect stations





CARTS Eastside Bus Plaza



LEGEND

- Eastside Bus Plaza**
- Existing CARTS Routes
- Proposed CARTS Routes
- Existing CapMetro Bus Route
- Proposed CapMetro Express Bus Route
- Major Highway
- County Line



CARTS Eastside Bus Plaza



Source	Amount
CARTS – Project Development and Construction	\$2,000,000
CAMPO – Project Development and Construction	\$3,000,000
Capital Metro – Project Development and Construction	\$1,500,000
CTRMA – Project Development and Construction	\$400,000
City of Austin – Roadway Rehabilitation and Signals (not confirmed)	\$640,000
TOTAL	\$7,540,000

- » Negotiations and value engineering have resulted in approximately \$1M in cost reductions
- » TxDOT land contribution valued at \$750,000



CARTS Funding Request

- » Staff requests Board approval of an interlocal agreement with the Capital Area Rural Transportation System to provide funding assistance for the Eastside Bus Plaza transfer facility

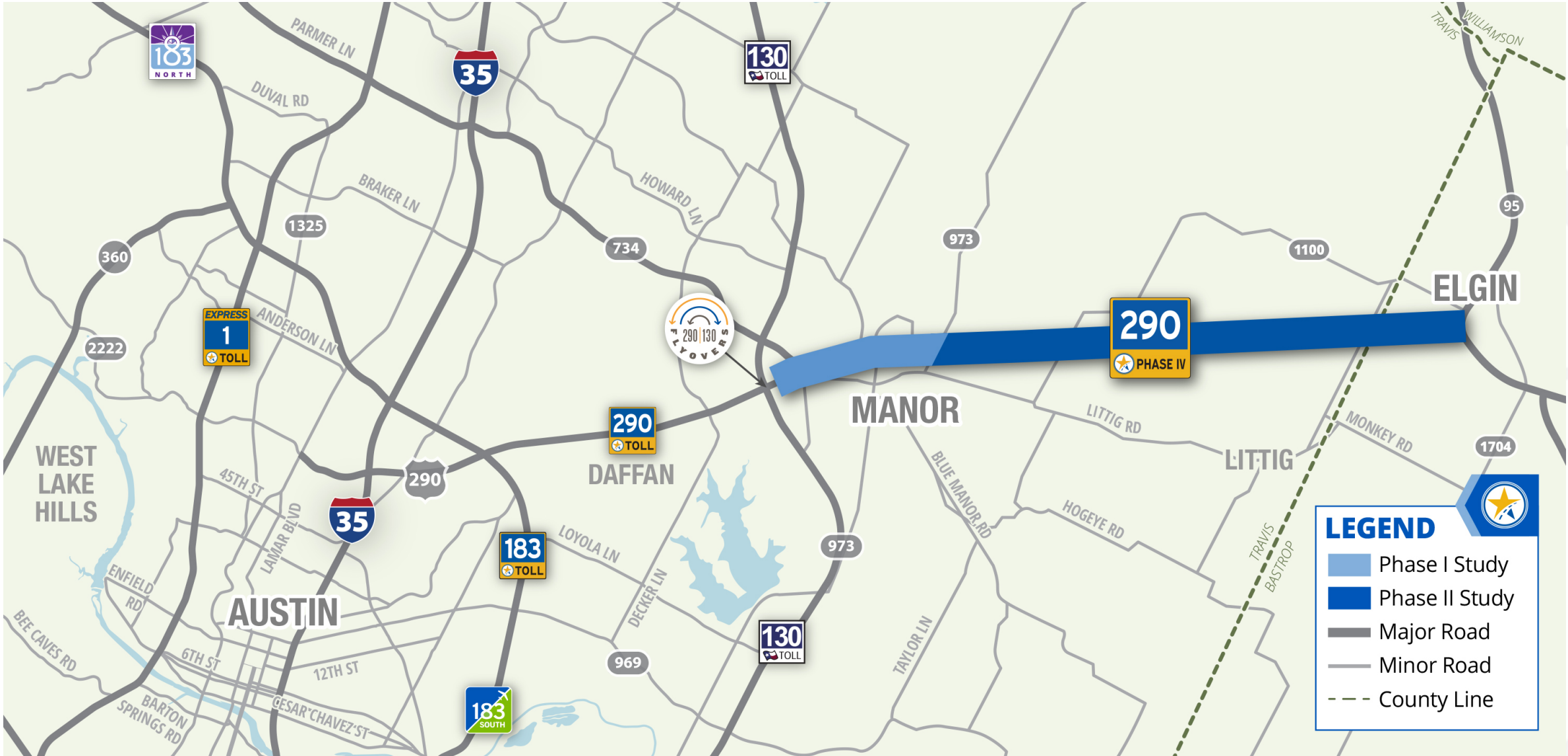
Discuss and consider approving Work Authorization No. 15 with Atkins North America, Inc. for general engineering consultant services for development of the Manor Expressway (290E) Phase IV project

12

Justin Word, P.E.
Director of Engineering



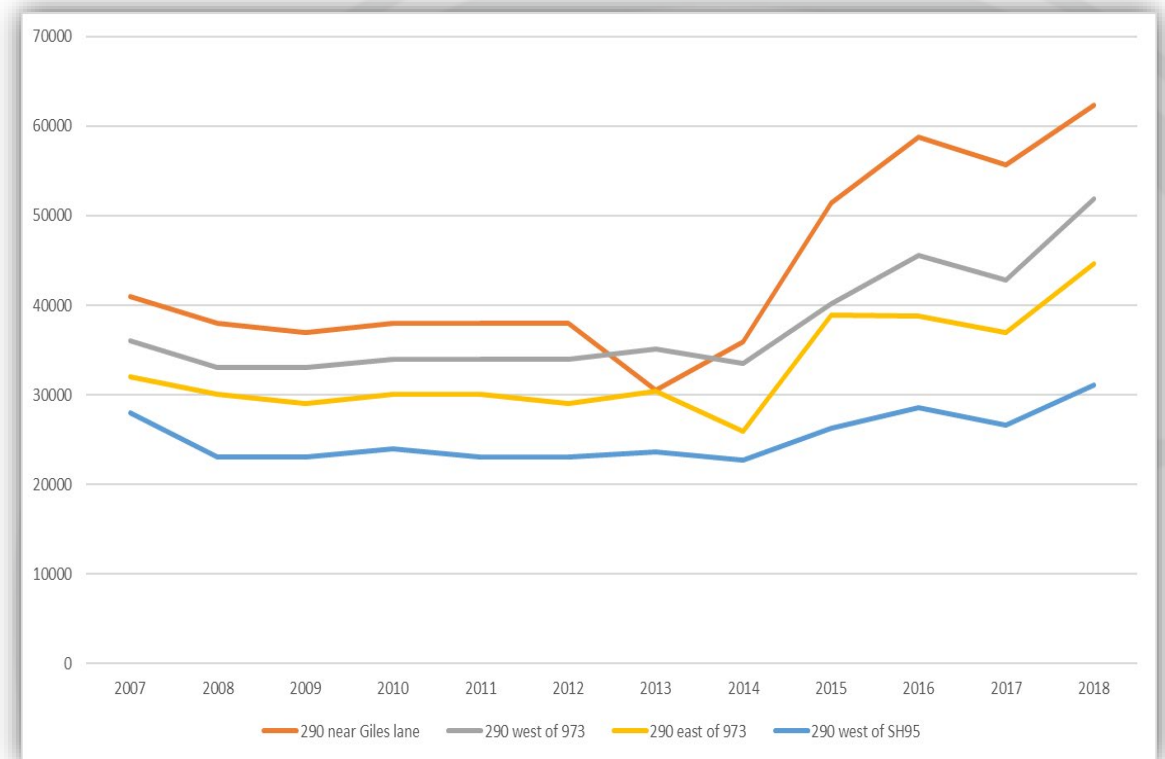
290E Phase IV Project





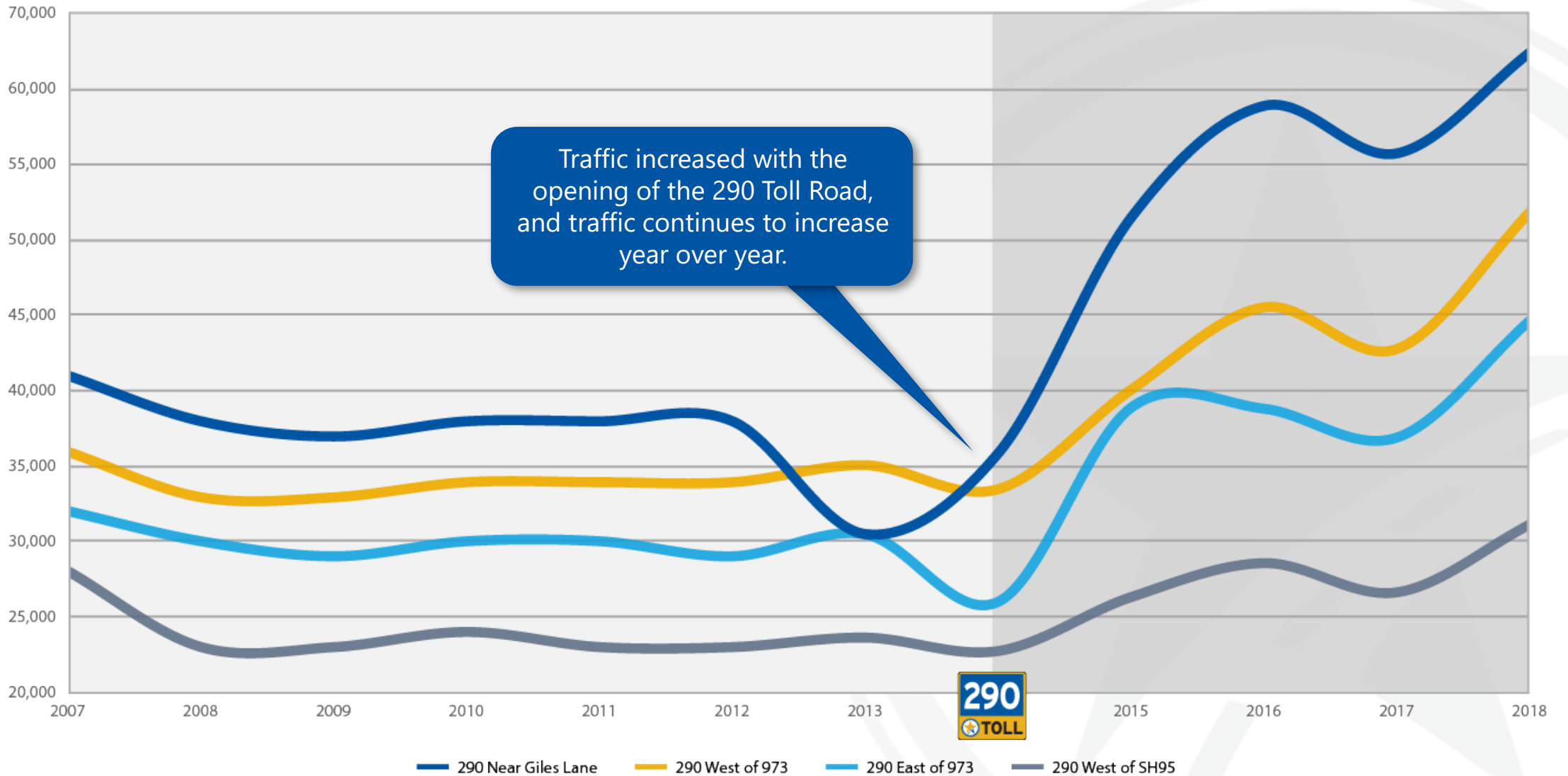
Traffic in the 290 Corridor

- » In 2007, prior to construction of the 290 toll road there were:
 - » 41,000 vehicles per day west of Giles Road
 - » 36,000 vehicles per day west of FM 973
- » By 2018 there were 51,848 vehicles a day west of FM 973
- » Traffic has been growing 4% to 5% per year east of SH 130





US 290 CORRIDOR VOLUMES 2007 - 2018





» Manor City Council:

- » Passed resolution on October 16, 2019, calling “for the proper roadway authority to consider an extension of US Highway 290 Phase IV Tollway through the City.”

» Elgin City Council:

- » Passed resolution on November 5, 2019, stating “The Mayor and City Council do hereby call for the proper roadway authority to consider an extension of US Highway 290 East Phase IV Tollway.”



What's Next

- » Study conceptual project
- » Estimate potential project cost
- » Run sketch level traffic and revenue forecasts
- » Begin environmental constraints analysis
- » Determine financial feasibility

Update on Transportation Projects

A. 183 South

B. 183 North

C. 183A Phase III

D. MoPac South

E. Barton Skyway

13

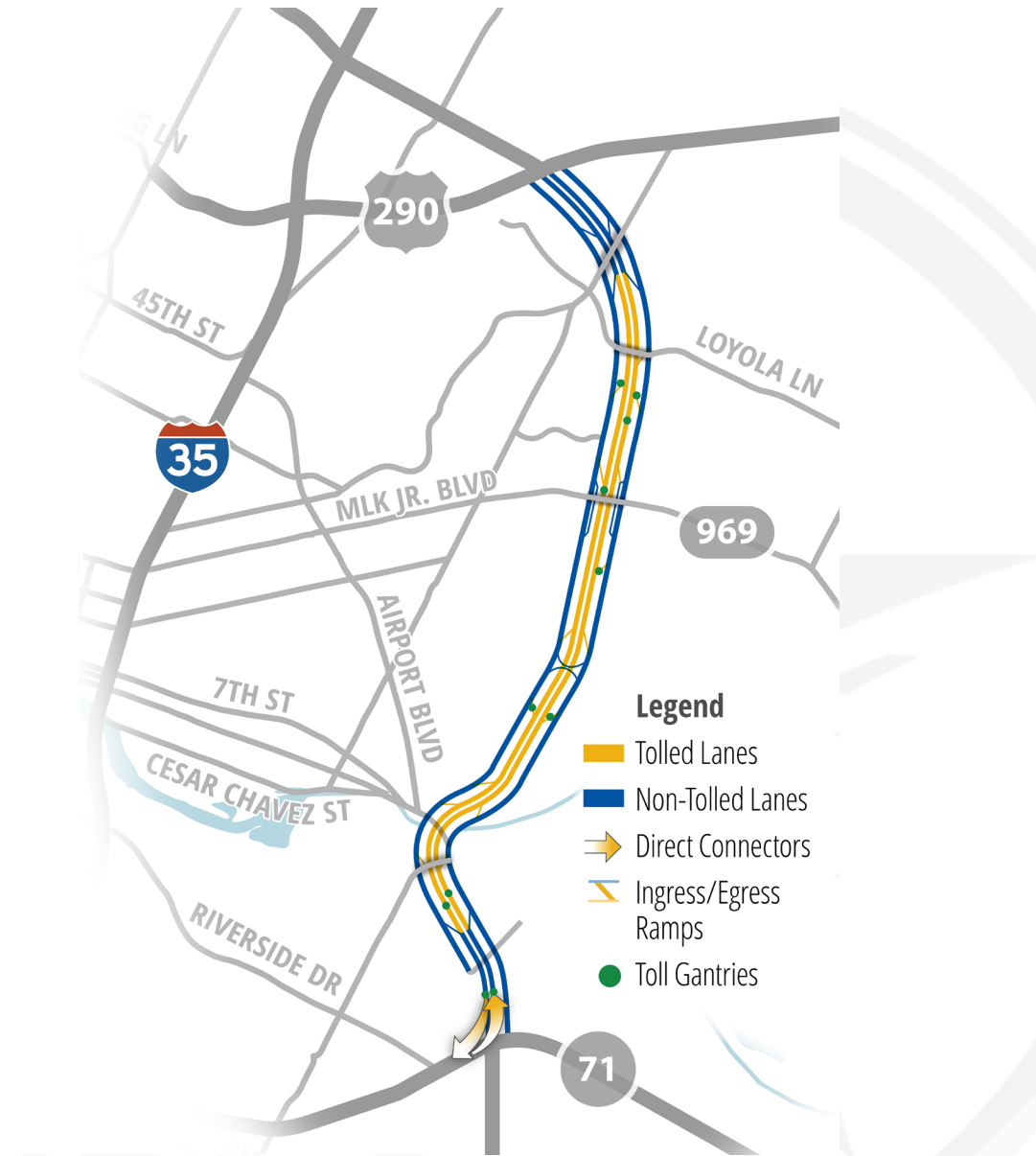
Justin Word, P.E.

Director of Engineering



183 South Project Overview

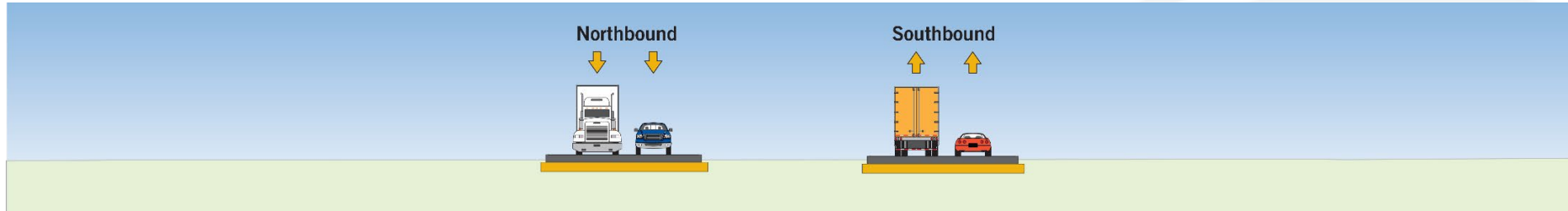
- » **Project Limits:** US 290 to SH 71
- » **Project Length:** 8 miles
- » **Total Project Cost:** \$743 Million
- » **Project Status:** Approximately 82% complete
 - » Phase I from US 290 to Techni Center Drive opened to traffic and tolling on August 1, 2019
 - » Phase II from Techni Center Drive to SH 71 opens Late 2020



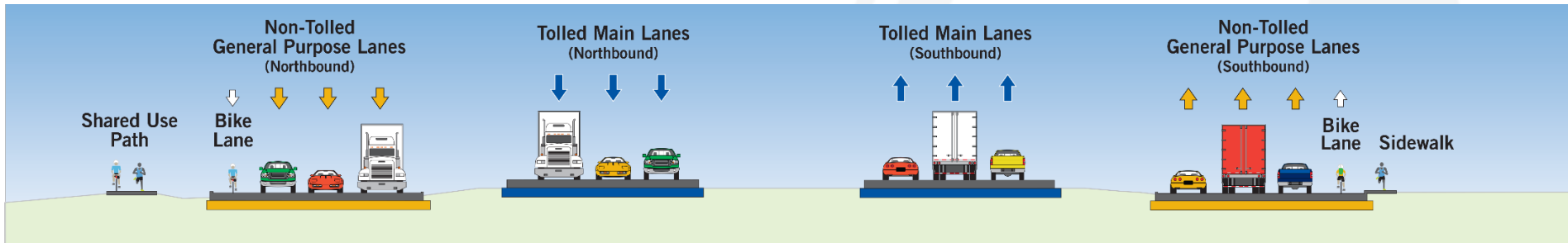


183 South Project Scope

WHAT EXISTS TODAY



WHAT WE ARE BUILDING



- » A new expressway with three tolled lanes in each direction and three non-tolled general-purpose lanes in each direction
- » New bicycle lanes, pedestrian bridges, sidewalks, shared use paths, trailheads, aesthetic enhancements and significant landscaping



183 South Project Timeline

➤ Design / Procurement
➤ Construction





183 South Project Milestones

» **Project Status:**

- » Overall project is 88% complete
- » Construction activities are 81% complete

» **Projected Project Completion:**

- » Latest contractor schedule indicates December 2020 completion
- » Team is working on traffic shifts that would adjust schedule forward approximately 2 months

Update on Transportation Projects

A. 183 South

B. 183 North

C. 183A Phase III

D. MoPac South

E. Barton Skyway

13

Justin Word, P.E.

Director of Engineering



183 North Mobility Project Overview

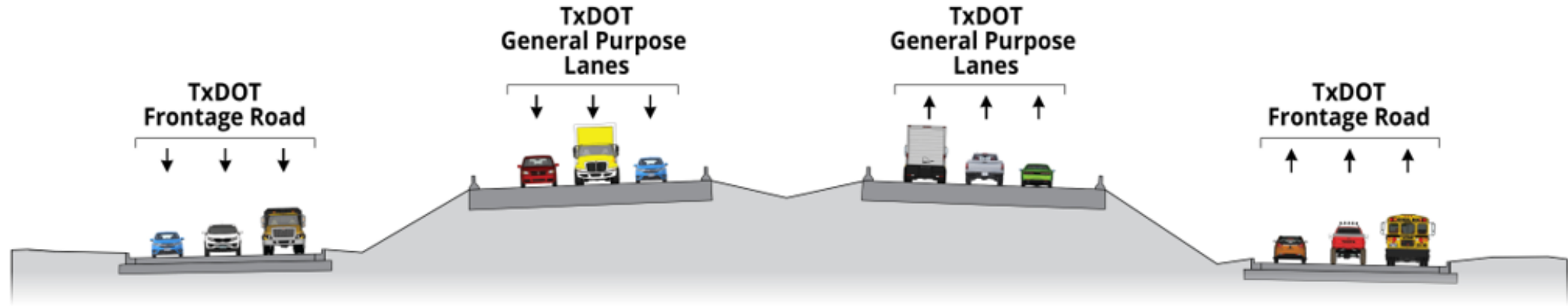


- » **Project Limits:**
 - » SH 45 to MoPac/Loop 1
- » **Project Length:**
 - » 9 miles on US 183
- » **Total Project Cost:**
 - » \$580 Million
- » **Project Status:**
 - » Design-Build Procurement



183 North Mobility Project Scope

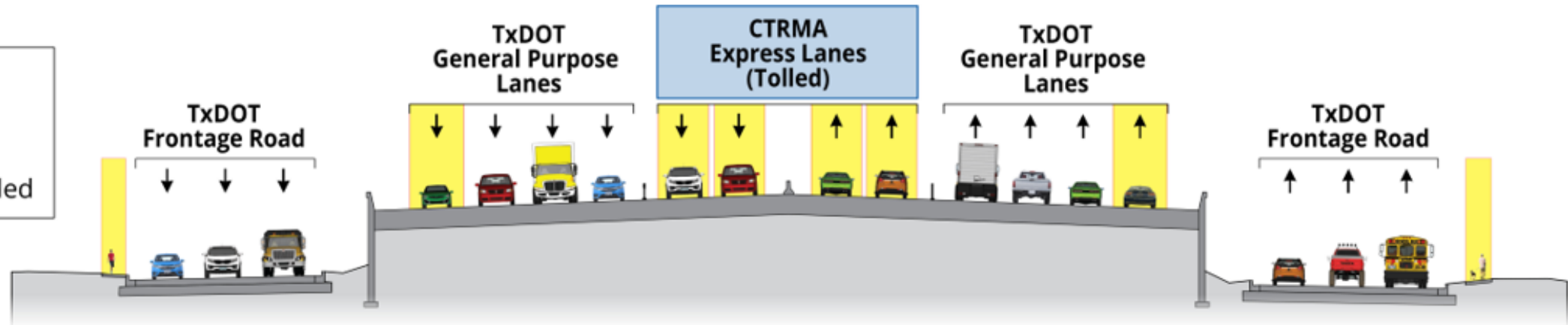
Existing



Legend

- ↑ Northbound Lane
- ↓ Southbound Lane
- ↑ Lane/Sidewalk Added

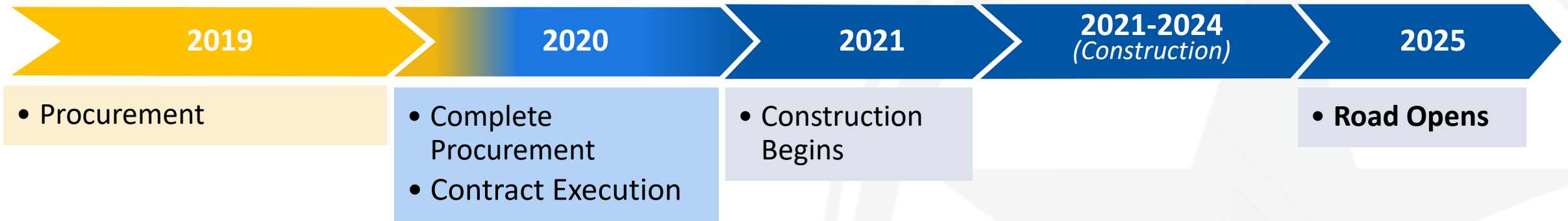
Proposed





183 North Mobility Project Timeline

■ Procurement & Contractor Selection ■ Contract Negotiation ■ Design and Construction





Accomplishments

- Federal Highway Administration Cost Estimate Review
- One-on-One Meetings
- Industry reviewed RFDP drafts
- Future and existing traffic models
- Project Development Agreement with TxDOT
- TxDOT & FHWA Approval
- Issued Final RFDP

Next Steps

- Evaluate Alternative Technical Concepts
- Receive Final Detailed Proposals
- Select Design-Build Contractor**
- Negotiate and execute the contract

Update on Transportation Projects

- A. 183 South
- B. 183 North
- C. 183A Phase III
- D. MoPac South
- E. Barton Skyway



13

Justin Word, P.E.
Director of Engineering



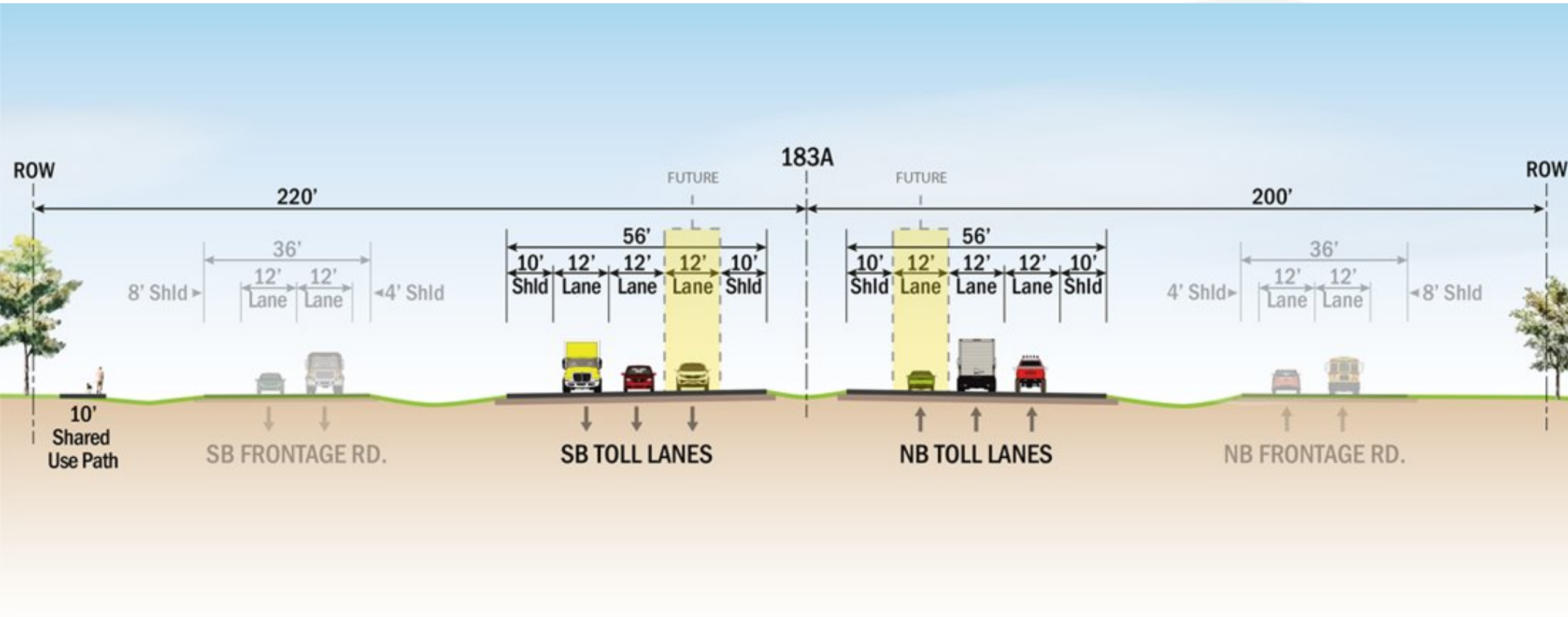
183A Phase 3 Project Overview



- » **Project Limits:**
 - » SH 29 to Hero Way
- » **Project Length:**
 - » 6.6 miles
- » **Total Project Cost:**
 - » \$260 Million
- » **Project Status:**
 - » Final Design



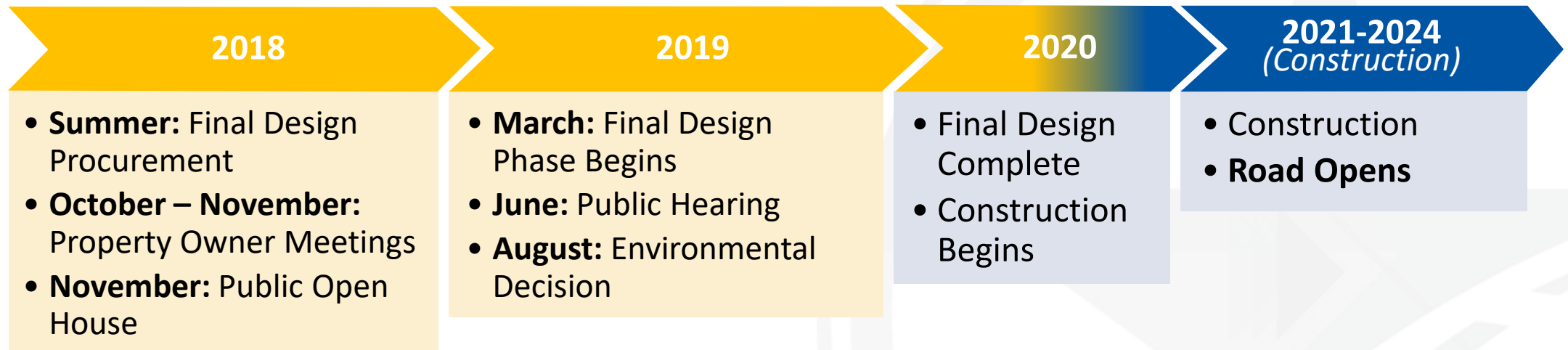
183A Phase III Project Scope





183A Phase 3 Project Timeline

Environmental & Final Design Construction





183A Phase 3 Project Milestones

Accomplishments

- Received and Reviewed 60% Plans
- Right of Way Acquisition Offers Issued (3 out of 4)
- Submitted TIFIA Letter Of Intent
- Initiated Utility Relocation Agreements

Next Steps

- Execute Construction PDA with TxDOT
- Complete Final Design
- Procure CE&I team
- Finalize acquisition of ROW
- Utility Relocations
- Let and award a construction contract
- Finalize project financing
- NTP construction phase

Update on Transportation Projects

- A. 183 South
- B. 183 North
- C. 183A Phase III
- D. MoPac South
- E. Barton Skyway



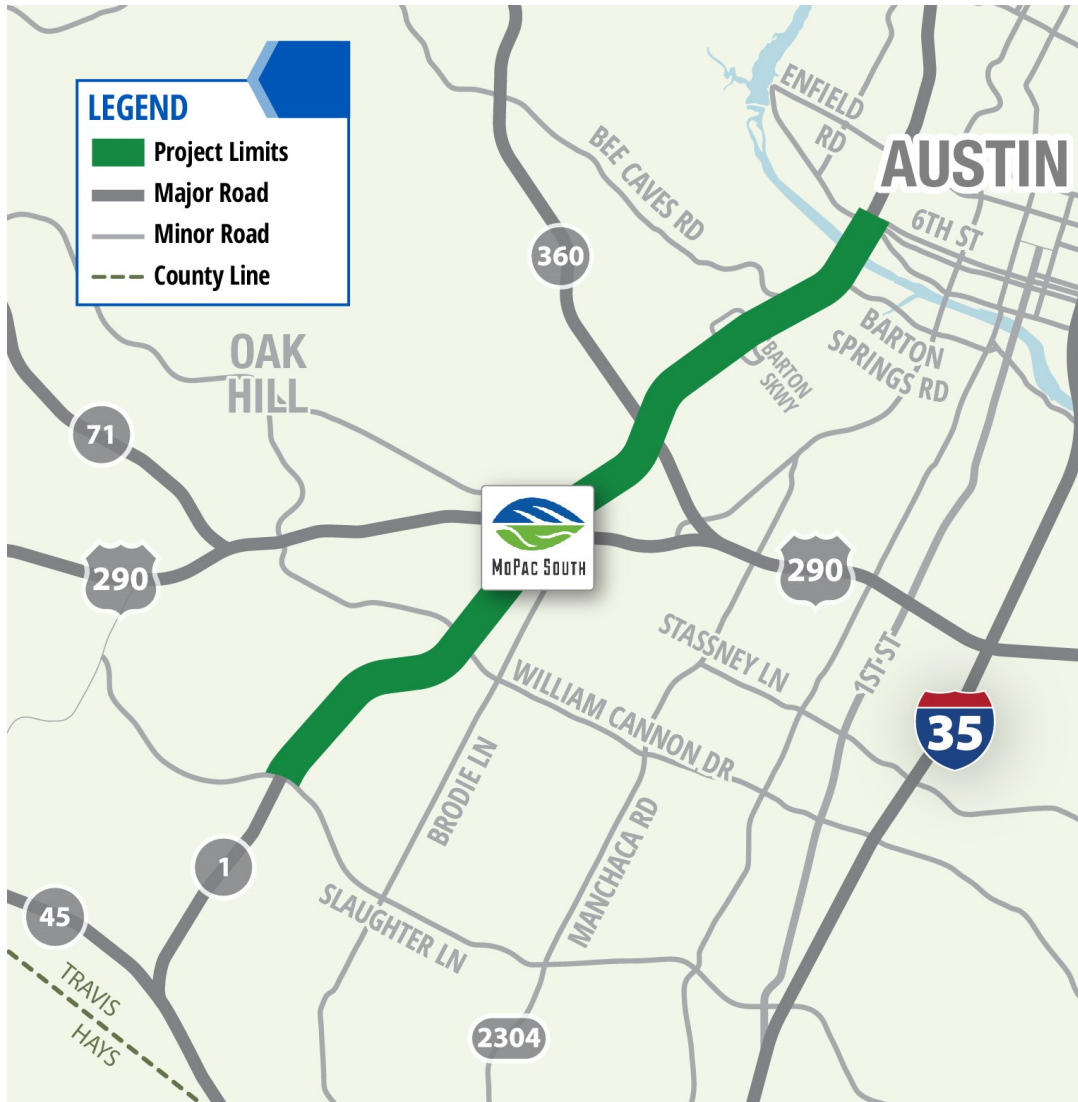
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Dee Anne Heath

Director of Government Relations and Communication



MoPac South Project Overview



» Project Limits:

- » Cesar Chavez Street to Slaughter Lane

» Project Length:

- » 8 miles on MoPac South

» Total Project Cost:

- » Update in Progress

» Project Status:

- » Environmental Assessment

Update on Transportation Projects

- A. 183 South
- B. 183 North
- C. 183A Phase III
- D. MoPac South
- E. Barton Skyway

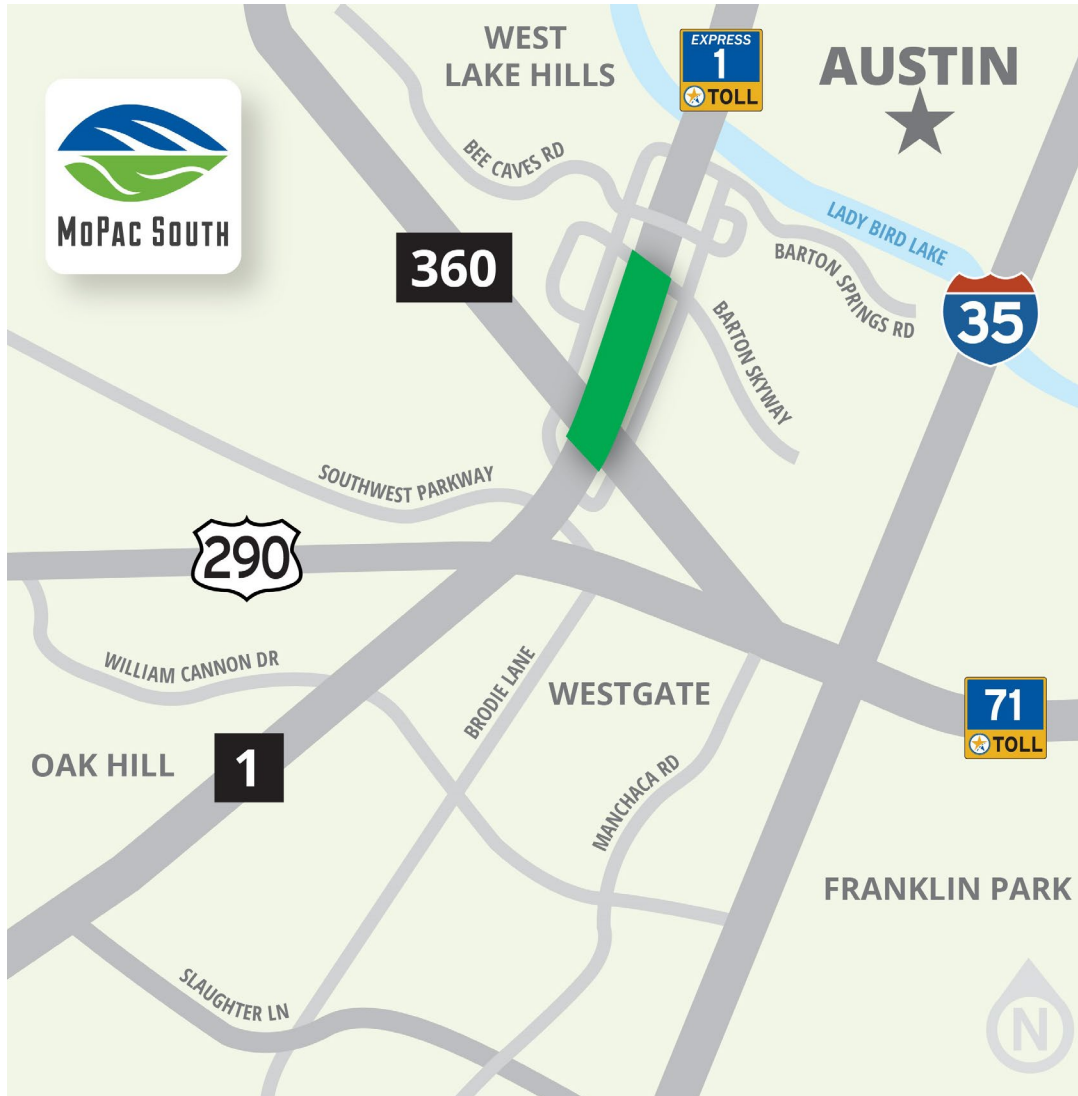


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Justin Word, P.E.
Director of Engineering



Barton Skyway Ramp Relief Project Overview



» **Project Limits:**

» Barton Skyway to Loop 360

» **Project Length:**

» 1.5 miles on MoPac

» **Total Project Cost:**

» \$15 Million

» **Project Status:**

» Environmental/Design Procurement



Barton Skyway Ramp Relief Project Scope

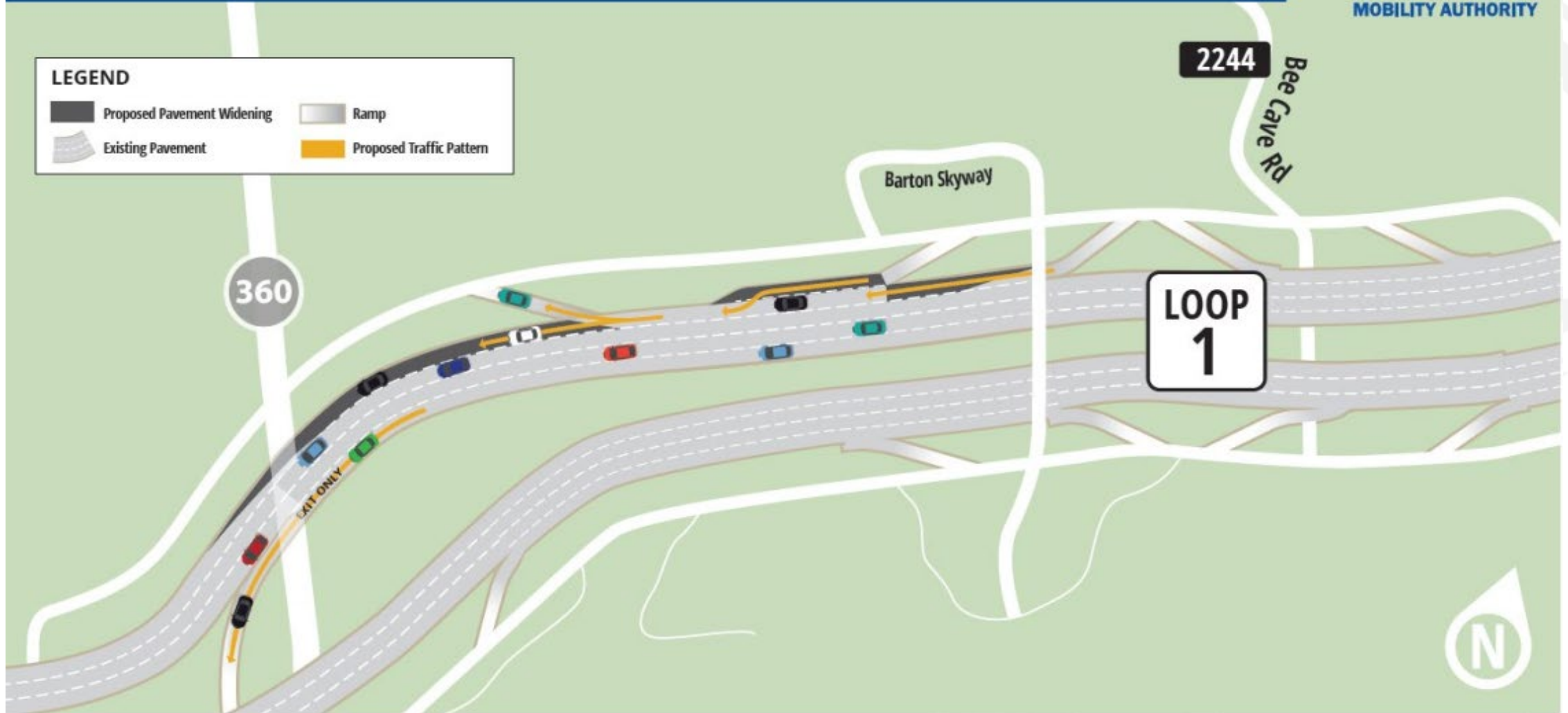
Add auxiliary and merge lanes between Barton Skyway and Loop 360 to relieve congestion at the southbound Winsted/Enfield on-ramp merge

Cost Estimate = \$15 million



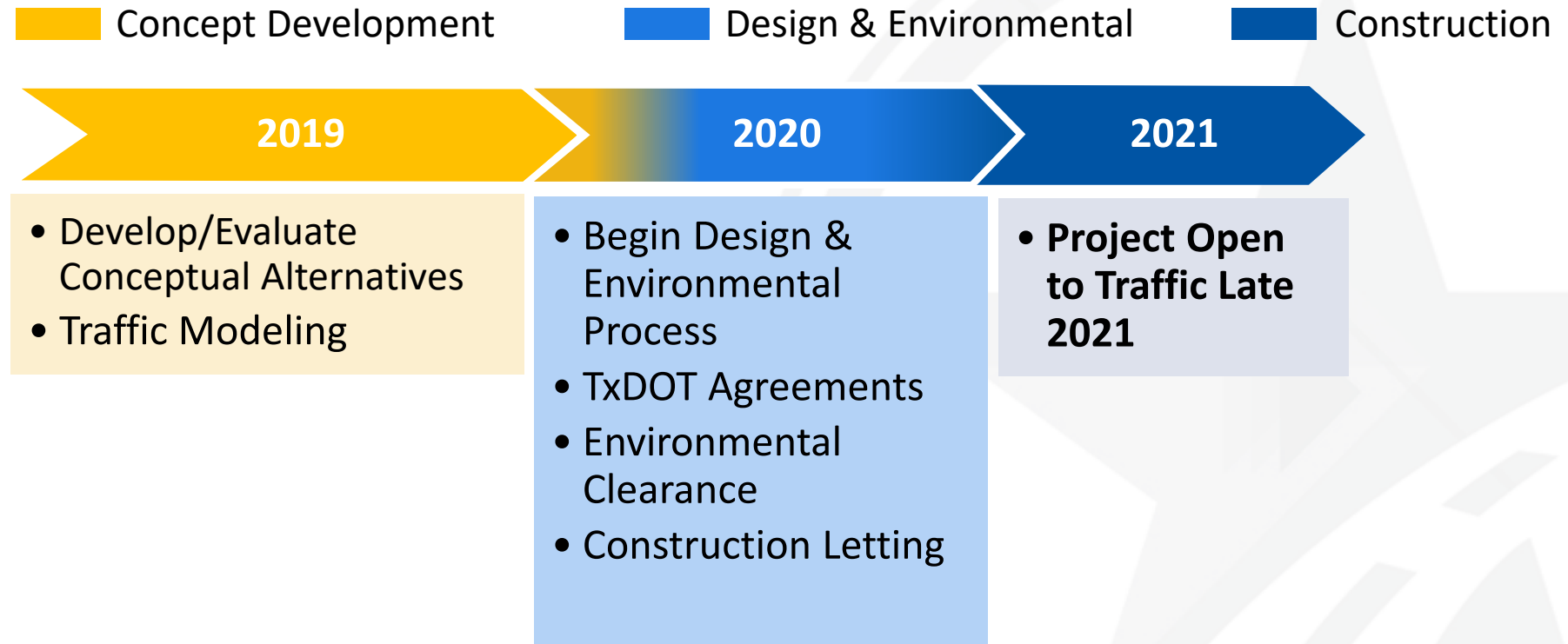
LEGEND

 Proposed Pavement Widening	 Ramp
 Existing Pavement	 Proposed Traffic Pattern





Barton Skyway Ramp Relief Project Timeline





Accomplishments

- Conceptual Configuration Selected
- Initial Coordination with TxDOT
- Request for Qualifications Issued – Design & Environmental Services

Next Steps

- TxDOT Project Agreements
- Select Designer – March 2020
- Receive Environmental Decision – Fall 2020
- Advertise for Construction Bids – Late 2020
- Award Construction Contract – Late 2020
- Begin Construction – Early 2021
- End Construction / Open to Traffic – Late 2021

Roadway Technology Plan

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Jeff Dailey, P.E., Deputy Executive Director
Tracie Brown, Director of Operations



» Strategic Plan

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

» Improved mobility

- » Increase capacity, reduce congestion
- » Immediate benefits
- » Establishes a test bed

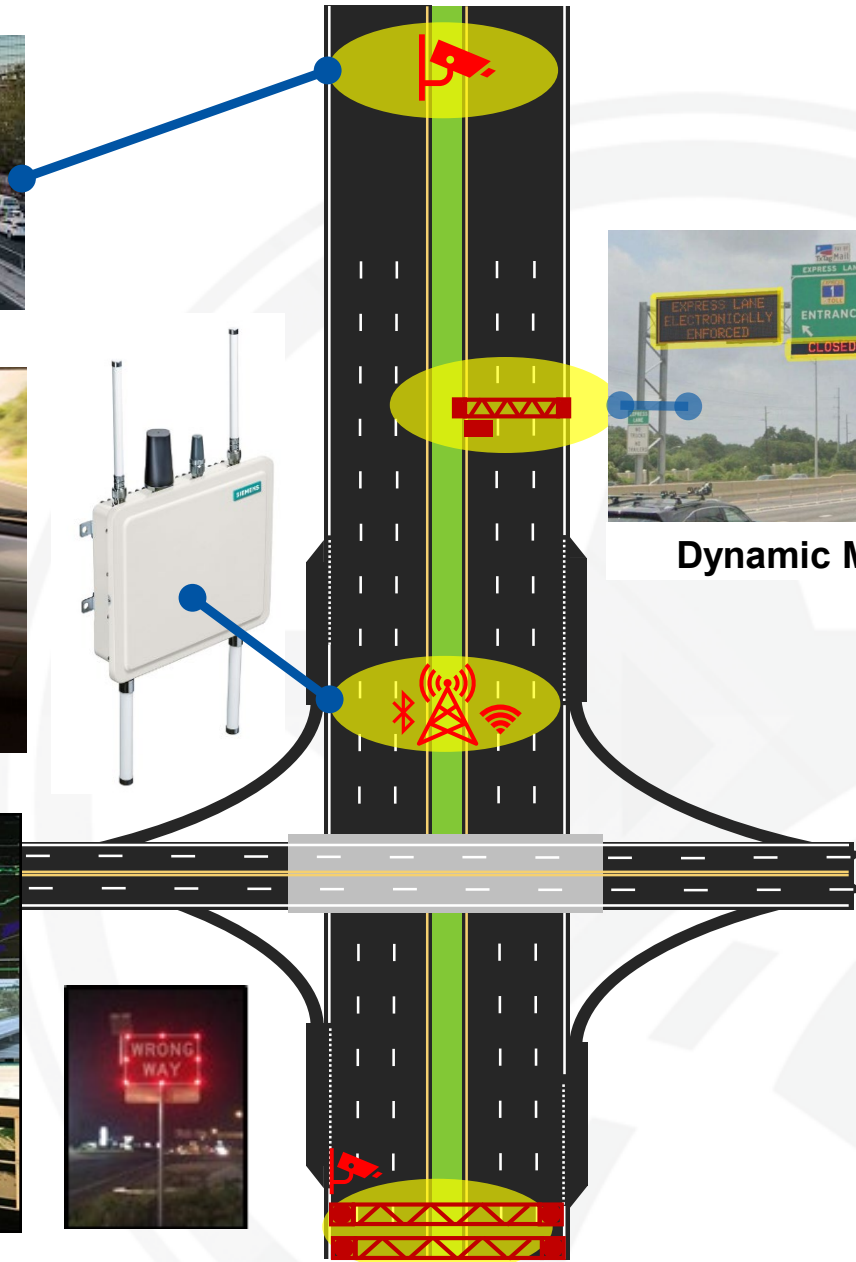
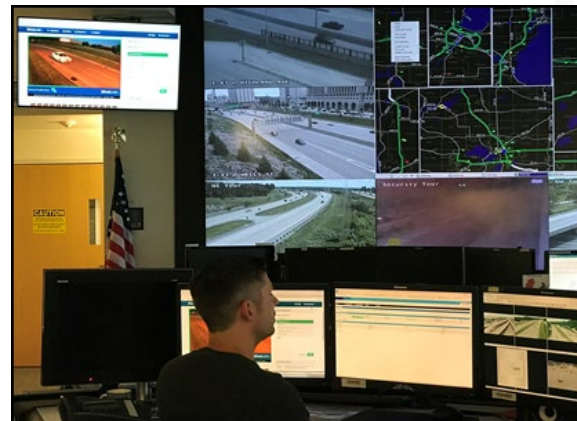
» Deploy next generation technology:

- » Enhance traveler information, roadway operations, and incident response and clearance



Propose Technology

- » Automated Incident Detection System (AID)
 - » Fixed Cameras
- » Connected Vehicle System
 - » Roadside Units
 - » Vehicle to Infrastructure Communications
- » Enhanced Traffic / Information Management System



Dynamic Message Signs



MoPac Express Lane, 290 Toll, and 45SW Toll

» Schedule

Feb 26 Board Meeting
- Plan Presentation

Mar to May -
Procurement

Jun to Dec - Deploy
Operational starting in Jun

» Cost

Roadway and Technology	Funding	Estimated Cost
MoPac Express – RSUs / AID Pilot	MoPac General Fund	\$750,000
290 Toll – RSUs / AID Pilot	FY20 Capital Budget	\$1,100,000
45SW Toll – RSUs	FY20 Capital Budget	\$350,000
Enhanced Traffic/Information Management Services*	FY20 Operating Budget	\$750,000
Total		\$2,950,000

*The estimated cost of the first year is estimated at \$300,000 and \$225,000 for years 2 and 3 for a total estimated cost of \$750,000.



Executive Director Report

- A. 45SW Awards
- B. WTS Rosa Parks Diversity Leadership Award
- C. Future CTRMA Headquarters
- D. Workforce update
- E. New employee introduction



#15

Mike Heiligenstein

Executive Director

Executive Director Report

- A. 45SW Awards
- B. WTS Rosa Parks Diversity Leadership Award
- C. Future CTRMA Headquarters
- D. Workforce update
- E. New employee introduction

#15

Mike Heiligenstein

Executive Director

Executive Director Report

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Mike Heiligenstein

Executive Director

Executive Director Report

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Mike Heiligenstein

Executive Director



CDL Graduation Event



Executive Director Report

- A. 45SW Awards
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#15

Mike Heiligenstein

Executive Director

Executive Session

16. Discuss acquisition of one or more parcels or interests in real property needed for the ultimate configuration of the 183A / SH 29 interchange and related legal issues, pursuant to §551.072 (Deliberation Regarding Real Property) and §551.071 (Consultation with Attorney).
17. Discuss acquisition of one or more parcels or interests in real property needed to serve as a headquarters for the Central Texas Regional Mobility Authority and related legal issues, pursuant to §551.072 (Deliberation Regarding Real Property) and §551.071 (Consultation with Attorney).
18. Discuss legal issues related to claims by or against the Mobility Authority; pending or contemplated litigation and any related settlement offers; or other matters as authorized by §551.071 (Consultation with Attorney).
19. Discuss legal issues relating to procurement and financing of Mobility Authority transportation projects, as authorized by §551.071 (Consultation with Attorney).
20. Discuss personnel matters as authorized by §551.074 (Personnel Matters).



16-20

Adjourn Meeting



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Bobby Jenkins
Chairman

Regular Meeting of the Board of Directors



CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY

February 26, 2020