Waco MPO Technical Advisory Committee Meeting

Thursday, January 4, 2024, 2:00 PM



# **Roll Call of TAC Members**

- Introduction and Welcome for new members of TAC
- MPO staff will verify the attendance of each Technical Advisory Committee member present

# WELCOME



# Access Meeting Materials on Your Device

- Agenda, packet, and other materials available online
  - 1. Scan QR code or visit link below
  - 2. Select today's meeting on calendar
  - 3. Scroll to bottom of pop-up window
  - 4. Select "Tell me more about Technical Advisory Committee"
  - 5. Scroll to "Related Information"













# Agenda

Short-Term Funding Strategies 2024 Performance Target Discussion PPP Revisions Proposed Plan Amendments TxDOT Updates Work Group Updates, Monthly Report & Announcements





# **Project Funding Strategies**

• Immediate Short-Term Projects



# **Project Funding Strategies**

- FY 2024 Category 2 Formula Allocation
  - \$23,178,129 in unallocated funds
  - \$25.0M in estimated additional funds from new UTP
  - Prepare for FY 2025 UTP
- Project Considerations
  - Allocate to immediate short-term projects
  - Consider project readiness
  - IH 35 4C remains our top priority



# **Project Funding Strategies**

- FY 2024 Category 2 Formula Allocation
  - Approximately \$48.1 million (estimated)
- Project Possibilities
  - SH 6 Twin Bridges \$60M construction estimate
    - Reconstruct & widen Lake Waco bridges & approaches
    - Current Cat 6 \$30.0M
    - Current Cat 4 \$4.0M
    - Current Funding Gap \$26.0M
  - NE Loop 340 \$160M construction estimate (ultimate section)
    - Widen to 4 lanes divided between US 84 (Bellmead Dr) & SL 484 (Marlin Hwy)
    - Current Cat 2 \$51.9M (fully funds new 4 lane divided frontage roads only)
    - Current Funding Gap \$108M (would fund ultimate section including main lanes and overpasses)



# **Directive Action Item**

- Discussion
- Recommendation to Policy Board
  - Direct MPO Staff & TxDOT District Staff to program available Category 2 dollars for May revision of FY 2023 – 2026 TIP as follows:

0

• Yea / Nay



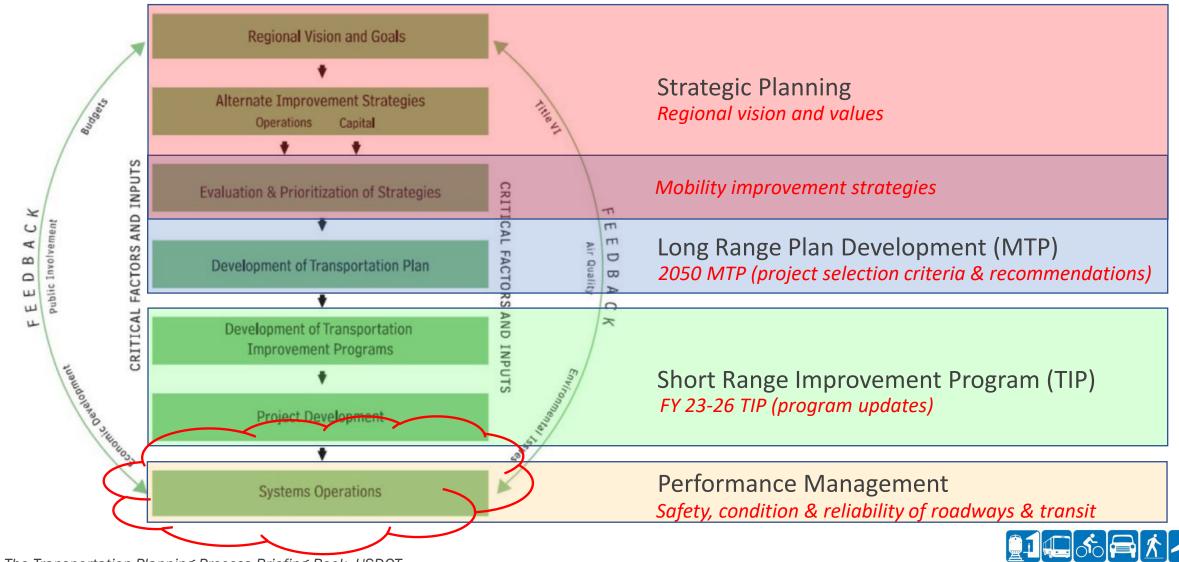




### Regional Performance Target Discussion Proposed System Performance Targets for 2024



# Performance Measures and Target Setting



Waco Metropolitan Planning Organization

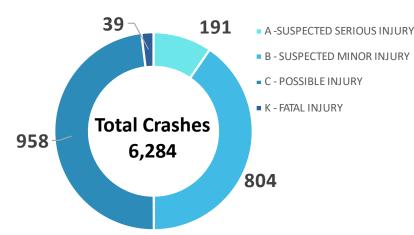
Source: The Transportation Planning Process Briefing Book, USDOT

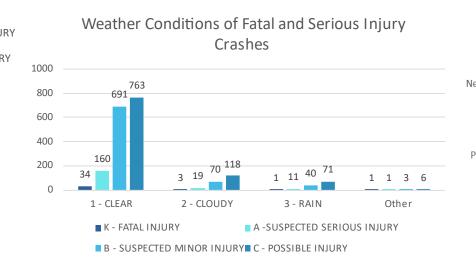
# **Roadway Safety Targets**

•Federal Goals & Requirements (FAST Act)

- Maintain safe roadway networks
  - Safety improvements should guide funding prioritization
- Establish 5 Performance Measures
  - 1) Number of fatalities
  - 2) Fatalities per 100 million vehicle miles traveled
  - 3) Number of serious injuries
  - 4) Serious injuries per 100 million vehicle miles traveled
  - 5) Number of non-motorized fatalities and non-motorized serious injuries
- Reassess and set performance targets annually

# **Roadway Safety Data**





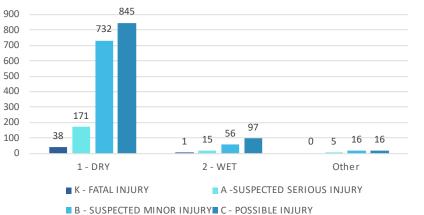
#### Driver Drug Results



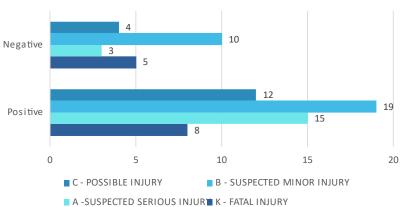
Light Condtions of Crashes 800 741 700 558 600 500 400 300 137 122 200 98 88 74 45 39 100 9 21 21 11 0 Other 1 - DAYLIGHT 2 - DARK, NOT 3 - DARK, LIGHTED LIGHTED K - FATAL INJURY A -SUSPECTED SERIOUS INJURY

■ B - SUSPECTED MINOR INJURY C - POSSIBLE INJURY

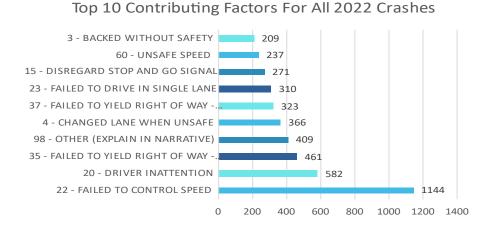
#### Surface Condition of Crashes

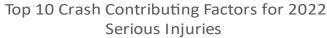


#### Driver Alcohol Results



# **Roadway Safety Data**

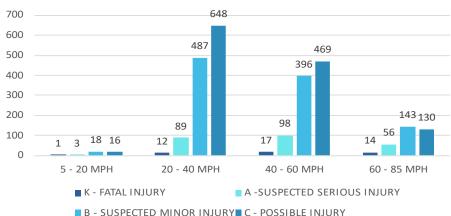




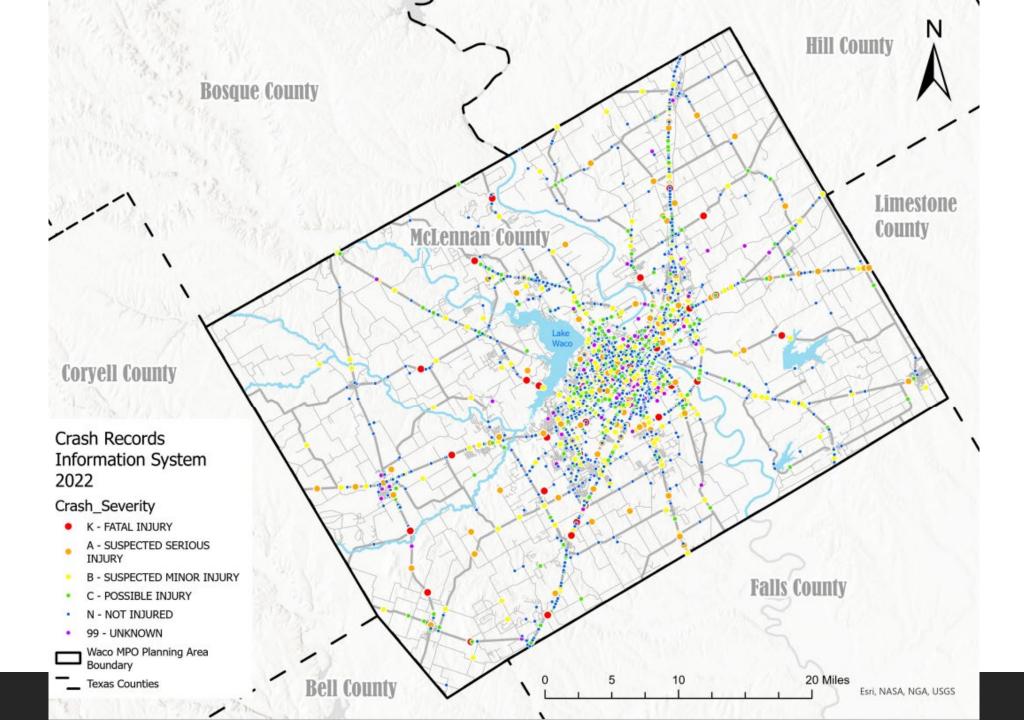


#### Top 10 Crash Contributing Factors for 2022 Fatal Crashes





#### 2022 Crash Severity Relation to Speed Limit



# **Roadway Safety Perception**

- Perceived Safety
  - Near Misses
  - Visibility
  - Traffic Volume
  - Lack of Infrastructure
    - Bike lanes, sidewalks, crosswalk
    - Traffic/ Stops Signs
    - Crossing Guard Presence
    - Speed Bumps
  - Land Use



# Perceived vs Objective Roadway Safety

#### **Objective traffic safety**

(Collisions involving children)

		Unsafe/ dangerous	No correlation	Safer/ less dangerous
	Unsafe/ dangerous	<ul> <li>High vehicle/ traffic speed</li> <li>High traffic volume</li> <li>Near schools</li> </ul>	<ul><li>High intersection density</li><li>Street parking</li></ul>	
Perceived traffic safety	No correlation	• High population density	<ul> <li>Road/ Network density</li> <li>Commercial, Residential, Mixed and Park land use</li> </ul>	
	Safer/ less dangerous	Crossing guards		• Sidewalk

# **Roadway Safety Summary**

Speed

- Land Use/ Neighborhood Design
- •Drugs and Drinking
- Driver inattention is too broad

### Top 10 Contributing Factors For All 2022 Crashes



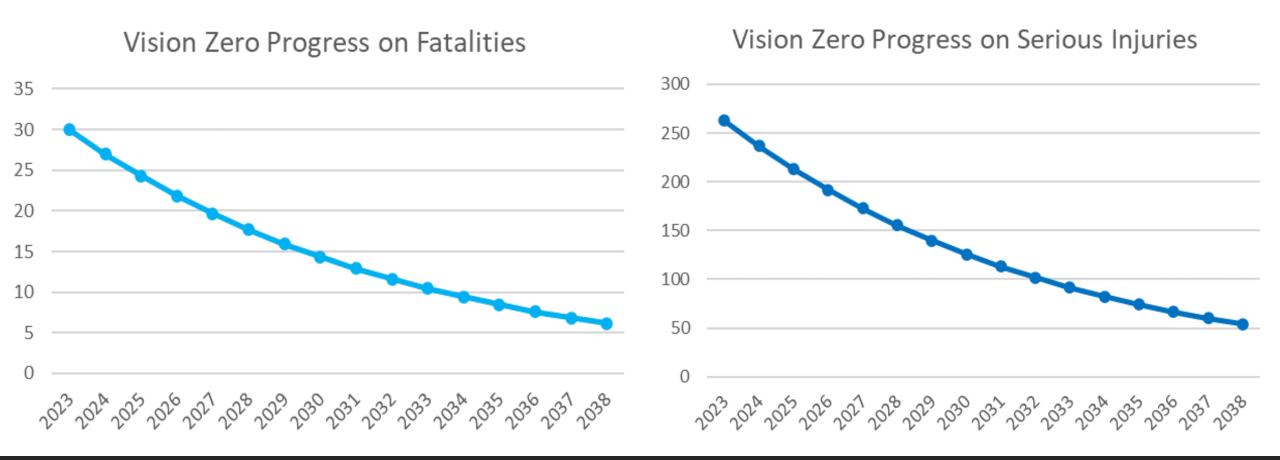
# TxDOT Statewide 2024 5-Year Average Roadway Safety Performance Targets

Year	Number of Fatalities		Number of Serious Injuries	Serious Injury Rate*	Fatalities and
2020	3,874	1.49	14,659	5.63	2,206
2021	4,486	1.70	19,434	7.35	2,628
2022	3,272	1.25	17,539	6.70	2,321
2023	3,159	1.20	17,819	6.77	2,340
2024 Target	3,046	1.14	18,242	6.77	2,360
2023 Target expressed as a					
5-year average	3,682	1.38	17062�	6.39�	2357�
2024 Target expressed as a					
5-year average	3,567	1.36	17,539	6.64	2,371

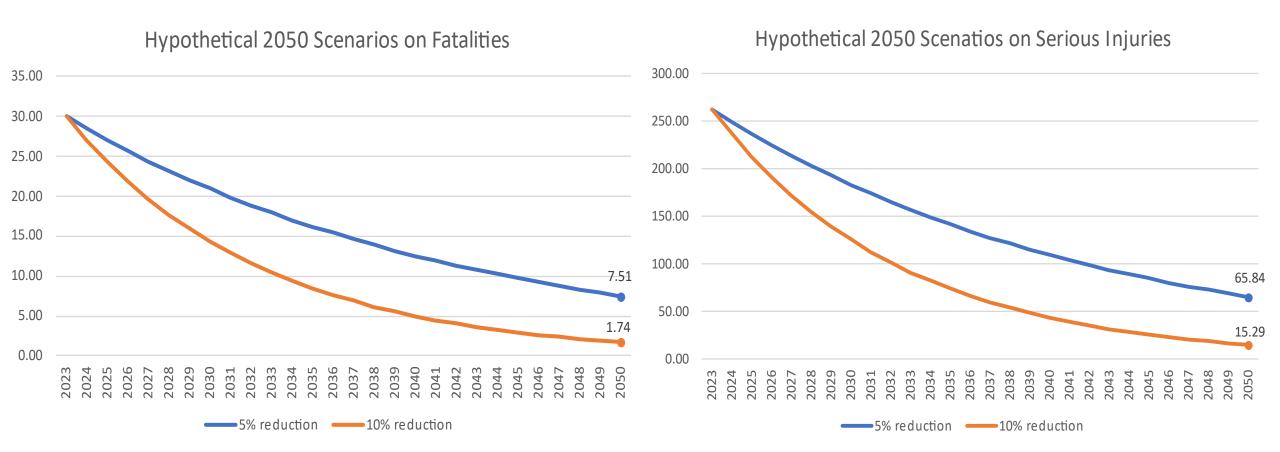
### Proposed McLennan County 2024 5-Year Average Roadway Safety Performance Targets

Year	Number of Fatalities				<b>Fatalities and</b>
2020	34	1.24	266	6.64	29
2021	36	1.28	385	9.18	40
2022	41	1.40	282	7.05	32
2023	30	1.00	263	8.79	26
2024 Target	29	0.95	252	8.30	26
2024 Target expressed as a				0.000	
5-year average	34.0	1.174	293.0	8.088	30.6

### Vision Zero Scenario



### **Vision Zero Scenario**



# Supporting TxDOT's Statewide Roadway Safety Targets for 2023

•What will it take to achieve zero fatalities by 2050?

- •Need to tackle this issue nationally, statewide, and regionally/locally (engineering, policies, programs, education campaigns, etc.)
- •Examples of Waco MPO Efforts to Support Statewide Targets
  - Develop project selection criteria for MTP 2050 aimed at reducing fatalities and serious injuries for all modes.
  - Modal choices, travel time, land use connections, crash hot spots, etc.
  - Plan and program projects in MTP and TIP that contribute to accomplishment of statewide targets.
- •Examples of Waco MPO Efforts to affect safety at local level
  - Development of a MPO Comprehensive Safety Action Plan
  - Participation in the TxDOT Safety Task Force
  - SS4A Grants received in 2022 & 2023 (Planning and Demonstration)



# **Public Transportation Safety Targets**

•Federal Goals & Requirements (FAST Act)

- Better assess & maintain safety risks within transit networks
  - Improve public transportation safety by more effectively and proactively managing internal safety risks
  - Better predict and reduce the frequency of safety events
  - Ensure safety improvements guide funding prioritization
- Establish Performance Measures
  - fatalities, serious injuries, number of safety events, number of significant mechanical failures
- Reassess and set performance targets annually



# Adopted 2024 PTASP Safety Targets Waco Transit System, Inc.

#### TABLE 6: FIXED ROUTE (BUS) SAFETY PERFORMANCE TARGETS

Measure	Baseline	Target
Fatalities	0	0
Rate of Fatalities*	0	0
Injuries	3.0	2.6
Rate of Injuries*	0.00039%	0.000000
Safety Events	3.0	2.2
Rate of Safety Events*	0.00039%	0.000000
System Reliability	32,592	33,980

Adopted by the Waco City Council on December 19, 2023

\*rate = total number for the year/total revenue vehicle miles traveled

#### TABLE 7: DEMAND RESPONSE SAFETY PERFORMANCE TARGETS

Measure	Baseline	Target
Fatalities	0	0.0
Rate of Fatalities*	0	0.00000%
Injuries	4.0	1.0
Rate of Injuries*	0.00052%	0.00000%
Safety Events	3.8	2.8
Rate of Safety Events*	0.00061%	0.00000%
System Reliability	59,324	39,920

\*rate = total number for the year/total revenue vehicle miles traveled



# Regional Performance Targets Community Engagement – Proposed Schedule

- Solicitation of Comments January 22 31, 2024
  - Submit comments online at <a href="https://www.waco-texas.com/cms-mpo/get-involved">https://www.waco-texas.com/cms-mpo/get-involved</a>
- Public Informational Meetings
  - January 22, 2024 5:30 PM
  - In Person 401 Franklin Ave, Waco, in the 1st Floor Main Conference Room of the Dr. Mae Jackson Development Center
  - Virtual Meeting information posted at <u>https://www.waco-texas.com/cms-mpo/get-involved</u>
- TAC Review / Recommendation for Policy Board February 1, 2024
- Public Hearing / Policy Board Action February 15, 2024



# **Directive Action Item**

- Discussion
- Recommendation to Policy Board
  - Direct staff to begin federally required community engagement
    - Request public comments regarding proposed performance targets for calendar year 2024
  - $^{\circ}$  Yea / Nay







### Proposed Project Amendment

Connection 2045 Waco Metropolitan Transportation Plan (MTP)



### Connections 2045: The Metropolitan Transportation Plan Proposed Revisions to the MTP

- Purpose of MTP
  - Identifies how the region intends to invest in the transportation system for a 25-year period.
- Proposed Amendments
  - Reflect refinements to TxDOT's cost estimates for US 84 project in development
    - Revised estimated construction cost of \$205.3 million (down from \$214.3 million)
    - Revised estimated total project cost of \$214.3 million (down from \$223.3 million)
  - Reflect expected allocation of federal funding to the region for vehicle related purchases
    - Federal Transit Administration (FTA) 5330(a) Program for Capital Purchases for Buses/Bus Facilities
    - 5-year allocation (FY 2020 2025)



### Connections 2045: The Metropolitan Transportation Plan Proposed Revisions to the MTP

- Solicitation of Comments January 8, 2024 January 17, 2024
  - Submit comments online at <a href="https://www.waco-texas.com/Departments/Metropolitan-Planning-Organization/Community-Engagement">https://www.waco-texas.com/Departments/Metropolitan-Planning-Organization/Community-Engagement</a>
- Public Informational Meetings
  - January 8, 2024 12:00 Noon and 5:30 PM
  - In Person 401 Franklin Ave, Waco, in the 1st Floor Main Conference Room of the Dr. Mae Jackson Development Center
  - Virtual Meeting information posted at <a href="https://www.waco-texas.com/Departments/Metropolitan-Planning-Organization/Meetings">https://www.waco-texas.com/Departments/Metropolitan-Planning-Organization/Meetings</a>
- TAC Review / Recommendation to Policy Board January 4, 2024
- Public Hearing / Policy Board Action January 18, 2024



# **Directive Action Item**

- Discussion
- Recommendation to Policy Board
  - Direct staff to begin federally required community engagement
    - Request public comments regarding proposed MTP amendments (May revision)
  - $^{\circ}$  Yea / Nay







### Proposed Program Amendment 2023-2026 Transportation Improvement Program (TIP)

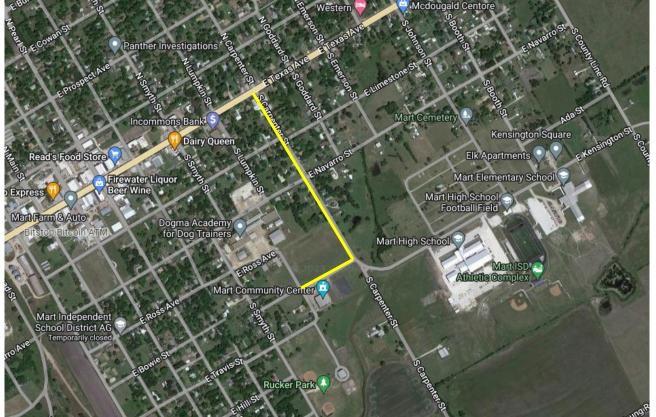


# 2023-2026 Transportation Improvement Program Proposed Revisions

- Purpose of TIP Amendment
  - Program funding identified for federal highway, public transportation, and pedestrian projects within the Waco region
- Proposed Amendment
  - Programs Transportation Alternative project awards by the Texas Transportation Commission
    - Cities of Mart, Waco, and Woodway for bicycle and pedestrian projects
  - Programs City of Waco contributions to IH-35 4C for project enhancements \$1.9M
  - Programs FY 2024 Category 2 Formula Allocation
  - Programs 5339a formula allocation for transit vehicle purchases for Waco Transit



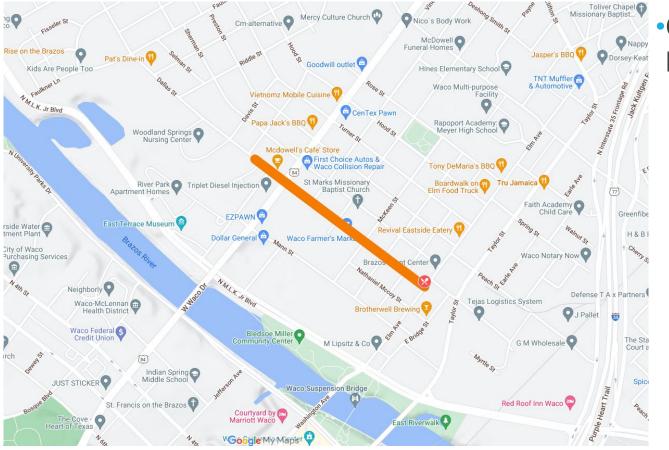
# TxDOT 2023 TA Project Award



- •Mart School and Neighborhood Connector Project
  - Scope
    - Improve connections between the downtown area of Mart, adjacent neighborhoods and schools, and the community center
  - Location / Extent
    - S. Carpenter St. from SH 164 (E Texas Ave) to E. Bowie St.; E. Bowie St. from S. Carpenter St. to S. Lumpkin St.
  - Preliminary Cost Estimate
  - ∘ ~\$1.347 M



# TxDOT 2023 TA Project Award



- Carver Neighborhood Bike/Ped Improvements
  - Scope
    - Improve bike/ped access to & circulation within Downtown Waco
  - Location / Extent
    - Along Dallas St between Elm Ave & Ashburn St
  - Preliminary Cost Estimate
  - ∘ ~\$4.385 M



# TxDOT 2023 TA Project Award



- •Woodway Elementary Safety Improvements
  - Scope
    - Improve pedestrian traffic and ease vehicular use near Woodway Elementary School
  - Location / Extent
    - Along Midway Drive from Harvey Dr. to Estates Dr. & along Estates Dr. from Midway Dr. to Jordan Ln
  - Preliminary Cost Estimate
  - ∘ ~\$1.048 M



# **Public Transit Grant for Vehicle Purchases**

•Public Transit 5339(a) Formula Allocation

- To replace, rehabilitate & purchase vehicles and related equipment
- Construct & modify bus-related facilities
- Program capital purchases during the 4-year scope of the TIP (FY 23-26)
  - FY 2021 & FY 2022 allocations are carried over into FY 2023 to accommodate the TIP timeframe.
  - FY 2024 allocations have not been made yet.



# **Directive Action Item**

- Discussion
- Recommendation to Policy Board
  - Direct staff to begin federally required community engagement
    - Request public comments regarding proposed TIP amendments
  - Yea / Nay







## Public Participation Plan (PPP)

**Proposed Revisions** 



# Public Participation Plan Proposed Revisions

- Purpose of PPP Details efforts to solicit stakeholder and other interested party's involvement in the development of the MPO's plans and programs
- Proposed Amendments
  - Purpose clarify the public hearing process and how administrative modifications are implemented
  - Amend Section 4.1 Meeting Formats to reflect change of Policy Board and if directed, TAC from 2:00pm to 1:30 pm and add CAV Work Group meeting details
  - Amend Section 4.3 Public Hearings to clarify opportunities for the public to address the Policy Board during a Policy Board meeting
  - Amend Section 6 Public Participation Procedures to include <u>Administrative</u> <u>Modifications</u> and to provide guidance on their implementation
  - Amend Section 6.1 Public Comment Periods clarify the distinction between "calendar days" and "working days" for Public Comment Period Requirements



# Public Participation Plan Public Engagement – In Progress

- Solicitation of Comments December 26, 2023 February 9, 2024
  - Submit comments online at <a href="https://www.waco-texas.com/cms-mpo/get-involved">https://www.waco-texas.com/cms-mpo/get-involved</a>
- Public Informational Meetings
  - January 8, 2024 12:00 Noon and 5:30 PM
  - In Person 401 Franklin Ave, Waco, in the 1st Floor Main Conference Room of the Dr. Mae Jackson Development Center
  - Virtual Meeting information posted at <u>https://www.waco-texas.com/cms-mpo/get-involved</u>
- TAC Review / Recommendation to Policy Board February 1, 2024
- Public Hearing / Policy Board Action February 15, 2024



# **Directive Action Item**

- Discussion
- Recommendation to Policy Board
  - Direct staff to pursue federally required community engagement process
    - Request public comments regarding proposed PPP amendments
  - Yea / Nay







# TxDOT Waco Area Project Updates

**Building the Texas Transportation System** 



Spring Valley Widening

ROADWAY: FM 2113 COST: \$15,387,558.27 LIMITS: From Sun Valley to Hewitt Dr SCOPE: Adding Turn Lane, Shoulders, and Drainage TIMELINE: Anticipate Fall 2024 Completion

Opened east half of new roadway between Sun Valley and Old Temple. Beginning removals of west half of roadway to begin permanent construction.
Completed drainage construction between Old Temple and Hewitt Dr and continuing paving operations. Expect to open in February, weather permitting.

## **Current Projects**

## • IH 35 Resurfacing

ROADWAY: IH 35 COST: \$6,126,287.10 LIMITS: N. Loop 340 to BU 77 SCOPE: Mill and Inlay TIMELINE: Est. Completion End of 2023

- All paving operations complete.

-Upgrading MBGF and install delineation at 4<sup>th</sup>/5<sup>th</sup> St uturn.

• FM 434/U Parks Widening

ROADWAY: FM 434 COST: \$6,126,287.10 LIMITS: From BU 77 to FM 3400 SCOPE: Widen and construct left turn lane TIMELINE: Est. Completion End of 2024

-Performing subgrade widening on west half of roadway.

-Demolished half of bridge at Primrose Creek and started constructing new bridge. Road will be reduced to single lane with temp signal until Summer 2024.

## **Current Projects**

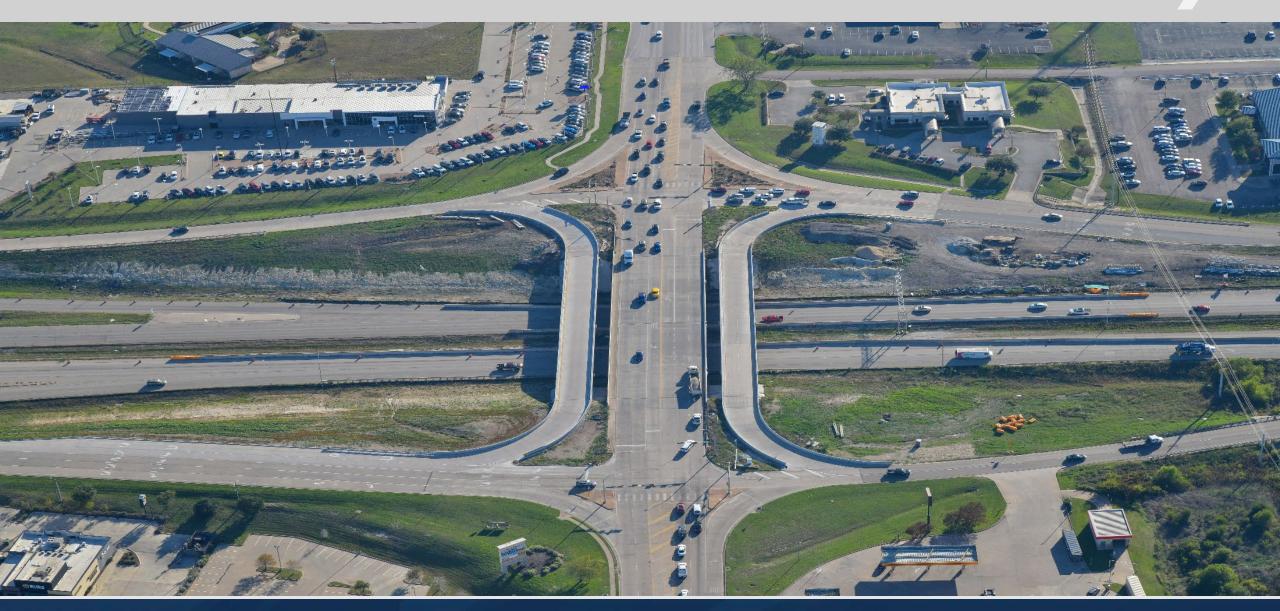
## SH 6 Mall to Mall

ROADWAY: SH 6 COST: \$54,894,543.25 LIMITS: Bagby Ave to US 84 SCOPE: Widen freeway, construct frontage road bridges, and reconfigure ramps TIMELINE: Est. Completion Early 2024

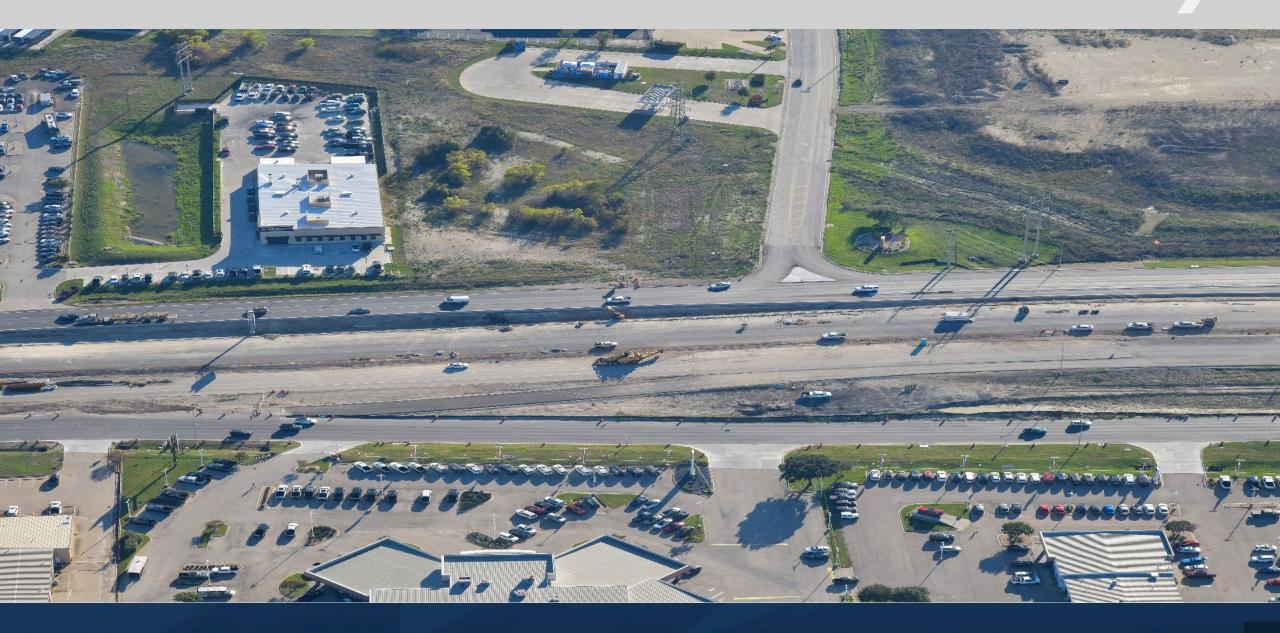
- Anticipate pouring last mainlane bridge this week.

- Continuing construction of new mainlane pavement and bridges between Bagby and US 84. Placing final surface, weather permitting. Will require high impact closure of SB SH 6 at US 84.

## **Bagby Turnarounds**



## **Exchange Parkway**



## **Beverly Bridges**



## Imperial



## **Oxygen/Depot Bridges**



## **US 84**





## Monthly Business

Work Group Updates, MPO Monthly Report, Announcements



# Work Group Updates

CITIZEN'S PARTICIPATION (CP)

- TBD
- Nominations requested

## BICYCLE & PEDESTRIAN (BPWG)

• February 14, 2023

## CONNECTED & AUTOMATED VEHICLES (CAV)

• Next Meeting - January 17, 2024

MOBILITY, LAND USE & TRANSPORTATION (MLT)

- TBD
- Nominations requested

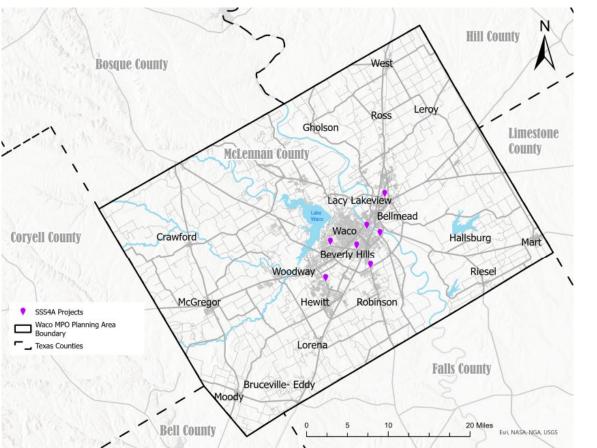


# **MPO Monthly Report**

- Policy Board Updates
  - Vision Statement
  - MTP Call for Proposal
  - Safety Action Taskforce/CSAP Development
  - RAISE Grant Update
  - Local Fund Contribution (March 15 deadline)
  - TA Project Updates
  - SS4A Projects



# Safe Streets and Roads for All (SS4A) Projects



- •N Loop 340 (Bellmead)
- •Franklin Ave
- •La Salle Ave
- Robinson Dr.
- •Hewitt Dr. and Panther Way Intersection
- •Valley Mills Dr. and Bosque Blvd Intersection
- •Valley Mills Dr. and Memorial Dr./Dutton Ave Intersection



# **Decision Lens**



#### Call for Projects

Centralize and standardize project data collection or import; allow stakeholders to comment/discuss

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### Evaluation & Prioritization

Projects are prioritized using a strategic, dynamic prioritization process; Can be automated with data or use subjective inputs

OCT NOV DEC JAN FEB	OCT NOV DEC JAN FEB	_	_		_	-
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## Budgeting & Funding

Selected projects are scheduled and budgets tracked

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#### Resource Capacity

Automation can support identifying optimized planning scenarios, resolve bottlenecks over multiple years

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## Scenario Planning

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Evaluate alternative approaches to achieving performance goals

٢	Baseline Plan 🗸	Actions 🗸				Project	s Score Budgets	Schedule		
	Projects 15 Q	Status 💌	Start 💌	End 💌	• Total Request	• Total Allocated	Modified At	Readiness	Eligible Activity	<ul> <li>Carbon Reduction</li> </ul>
1	Totals				2,272,274.94					1
2	McGregor		Jan 2023	Jan 2023	<u>148,665.44</u>		Dec 13, 2023, 2:40 PM	****	Road Improvements	v
3	Mars Dr		Jan 2023	Jan 2023	<u>591,750.00</u>		Dec 13, 2023, 3:02 PM	****	Trails	v (
4	MKT Trail		Jan 2023	Jan 2023	<u>469,288.50</u>		Dec 13, 2023, 3:02 PM	***	Trails	v C
5	Beverly Hills		Jan 2023	Jan 2023	<u>7,521.00</u>		Dec 13, 2023, 10:30 AM	****	ITS	v
6	Transit		Jan 2023	Jan 2023	<u>138,800.00</u>		Dec 13, 2023, 10:30 AM	****	Transit	v
7	New Project		Jan 2023	Jan 2023	<u>128,000.00</u>		Dec 13, 2023, 10:30 AM	****	Road Improvements	• 2
8	Best Trail		Jan 2023	Jan 2023	210,000.00		Dec 13, 2023, 3:02 PM	****	Trails	v .
9	Graph Rd		Jan 2023	Jan 2023	27,000.00		Dec 13, 2023, 10:30 AM	**	Road Improvements	• C
10	Pluto		Jan 2023	Jan 2023	<u>13,000.00</u>		Dec 13, 2023, 10:30 AM	***	Trails	Ψ
11	Desert Trail		Jan 2023	Jan 2023	<u>75,000.00</u>		Dec 13, 2023, 10:30 AM	****	Trails	• C
12	Bell		Jan 2023	Jan 2023	<u>8,750.00</u>		Dec 13, 2023, 10:30 AM	****	ITS	• C
13	Bus		Jan 2023	Jan 2023	220,000.00		Dec 13, 2023, 10:30 AM	****	Transit	• 2
14	Old Project		Jan 2023	Jan 2023	<u>127,500.00</u>		Dec 13, 2023, 10:30 AM	***	Road Improvements	• C
15	Next Trail		Jan 2023	Jan 2023	<u>82,000.00</u>		Dec 13, 2023, 10:30 AM	***	Trails	v 1
16	Kinder Lane		Jan 2023	Jan 2023	<u>25,000.00</u>		Dec 13, 2023, 10:30 AM	***	ITS	v



## Announcements

- Next TAC Meeting
  - Thursday, February 1, 2024
- Next Work Group Meetings



- Bike & Pedestrian Wednesday, February 21, 2024
- Request for Agenda Items for Future Meetings







# Contact Us

- Phone: (254) 750-5650
- Email:
- mpo@wacot



- Website:
- https://www.waco-texas.com/ Departments/Metropolitan-Planning-Organization



Waco MPO Technical Advisory Committee Meeting

• Thursday, January 4, 2024, 2:00 PM

