



CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY

REGULAR MEETING OF THE

BOARD OF DIRECTORS

Our mission is to develop, deliver, operate and maintain high-quality roadways and related transportation solutions.

November 15, 2023



CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY

AGENDA

ITEM #1

Bobby Jenkins
Chairman

Welcome and opportunity for public comment



CONSENT AGENDA ITEMS #2-3

Bobby Jenkins
Chairman

- 2. Approve the minutes from the October 25, 2023 Regular Board Meeting**
- 3. Prohibit the operation of certain vehicles on Mobility Authority toll facilities pursuant to the Habitual Violator Program**



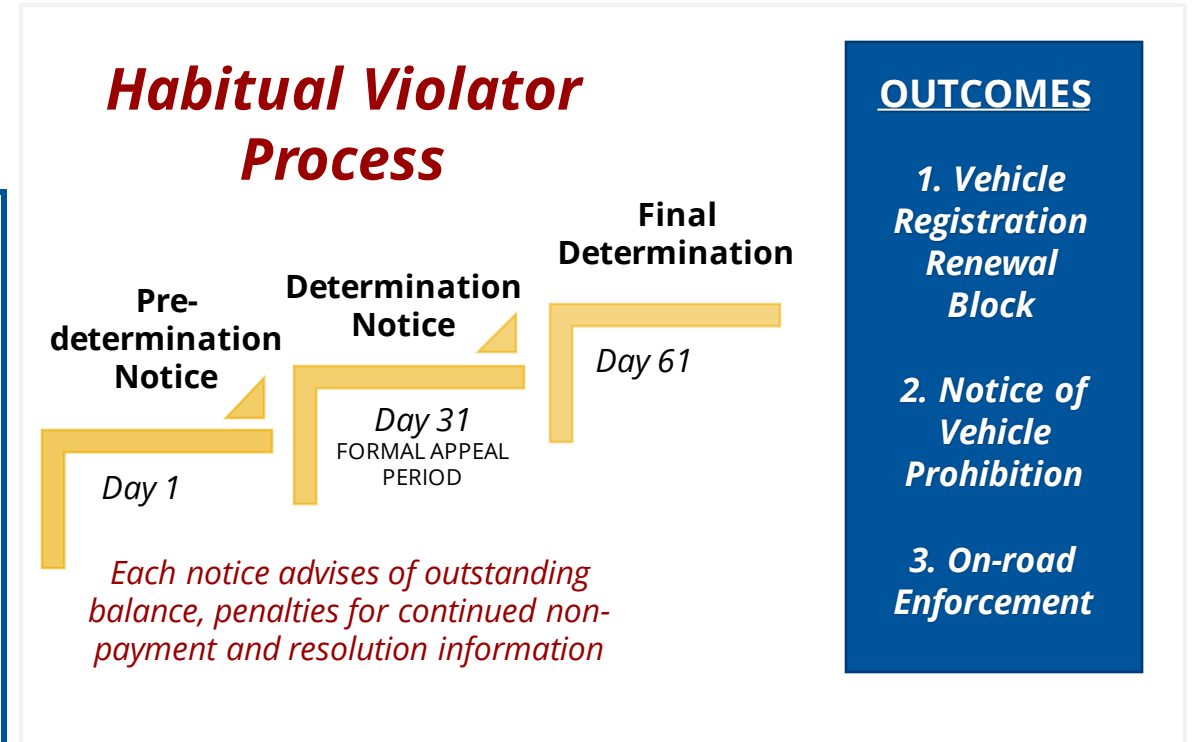
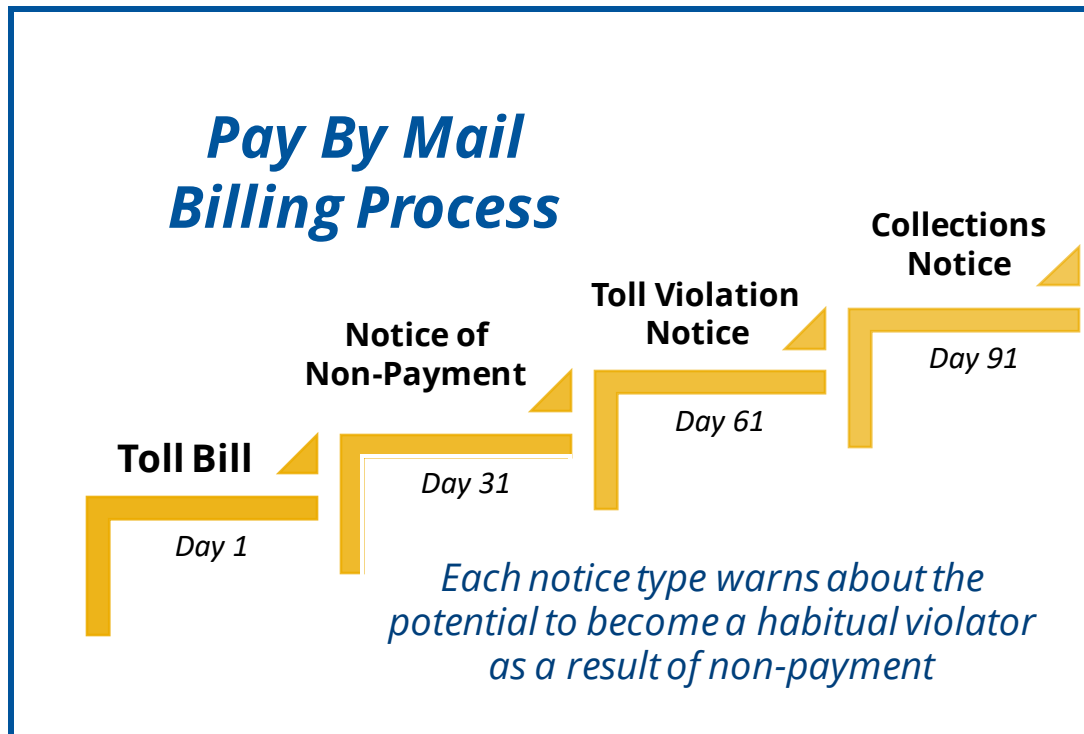
CENTRAL TEXAS REGIONAL
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CONSENT AGENDA ITEM #3

Tracie Brown
Director of Operations

Prohibit the operation of certain vehicles on Mobility Authority toll facilities pursuant to the Habitual Violator Program

Escalating Communications



Mobility Authority Policy Codes



Section 301.010(d-f): Customer Service & Violation Enforcement Policies

- Customers with 100 or more events non-payment within a period of one year and who have received at least two written notices of non-payment may be considered habitual violators. An event of non-payment is considered to be one unpaid toll transaction.
- Following a final determination that a registered owner with at least 100 unpaid toll violations within a year is a habitual violator, the authority may report a vehicle owned or leased by a person determined to be a habitual violator to a county tax assessor-collector or the Texas Department of Motor Vehicles in order to cause the denial of a vehicle registration.
- By order of its Board of Directors, ***the Authority may prohibit the operation of a motor vehicle owned or leased by a person determined to be a habitual violator on all authority toll roads. Vehicles that continue to operate on a toll road after the prohibition are subject to ticketing and impounding.***

HV Prohibited Vehicle Action Summary

November 2023



- **Approve a *Vehicle Prohibition Order* for the identified habitual violator customers**
 - » Number of prohibited vehicles: 6,284
 - » Total number of related unpaid tolls: 3,656,612
 - Average number of outstanding tolls per vehicle: 582
 - Average unpaid balance: \$1,657.92
- **Next Steps**
 - » Customers will receive *Prohibition Order* by mail
 - » Customers found to be in violation of the prohibition are subject to a warning, a citation with up to \$500 fine and / or vehicle impoundment by local law enforcement



CENTRAL TEXAS REGIONAL
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REGULAR ITEMS

COLLABORATION



INNOVATION



SERVICE



SAFETY



STEWARDSHIP



AGENDA ITEM #4

Tracie Brown
Director of Operations

Discuss and consider approving amending the FY 2024 Capital Budget to fund the various toll collection and intelligent transportation system (ITS) projects

FY24 Capital Budget Amendment



- FY24 Capital Budget included allocation for two ITS projects related to safety technology and toll violation

Project	Purpose	Budget Amount
Automated Incident Detection Cameras	Safety Technology	\$4,776,900
Automated License Plate Reader Technology	Toll Violation	\$3,238,200
	Total	\$8,015,100

- Today's action would reallocate these funds to alternate initiatives
- The three proposed amendments impact both the Capital Budget and Renewal Replacement section of the FY24 Budget

Proposed FY24 Capital Budget Amendment #1



- In the Capital Budget, a list of alternate projects initiatives would focus on the following:
 - » **Safety**
 - » **Revenue Collection**
 - » **Toll Violation Mitigation**
 - » **Technology Programs**
- These projects would provide efficient use of the organization's limited financial and human resources
- The total cost of the proposed list alternate projects is \$6,515,100

Proposed FY24 Capital Budget Amendment #1



Proposed Alternate Projects	Safety	Revenue Collection / Violation Mitigation	Technology Improvement
Roadside ALPR Trailers (2)		X	X
RekorOne Enhancement: Improved Image Attachment to Events	X		X
RekorOne Enhancement: Roadway Sensor Integration			X
183A Toll Signal Upgrades	X		X
Roadway Weather Information Systems (RWIS) for Toll Facilities	X		X
TIM Center Video Management Software	X		X
Cabinet Standardization Effort – 290 Toll			X
CCTV Camera Replacements / Heaters Systemwide			X
Shared-Use Path Safety Program	X		X
Fixed Camera Array Upgrades	X		X
Mobile Operations and Maintenance Safety (MOMS) Onboard Units for Connected Vehicle Technology	X		X

183A Signal Upgrades



- **GOAL:** Enable the Mobility Authority to better monitor and operate signalized intersections within their maintenance responsibility
 - » Five (5) signalized intersections along the 183A Toll corridor situated at the ramp termini of Crystal Falls Parkway, RM 2243, Hero Way, San Gabriel Parkway, and New Hope Drive
 - » Currently exploring two alternatives:
 - Locally-hosted management solution (lite version) and upgraded signalization infrastructure
 - Web-based integrated intersection monitoring platform and upgraded signalization infrastructure



Figure 1: Existing signalization hardware and in-cabinet equipment for the 183A Toll and Crystal Falls Pkwy intersection.

Roadway Weather Information Systems (RWIS)



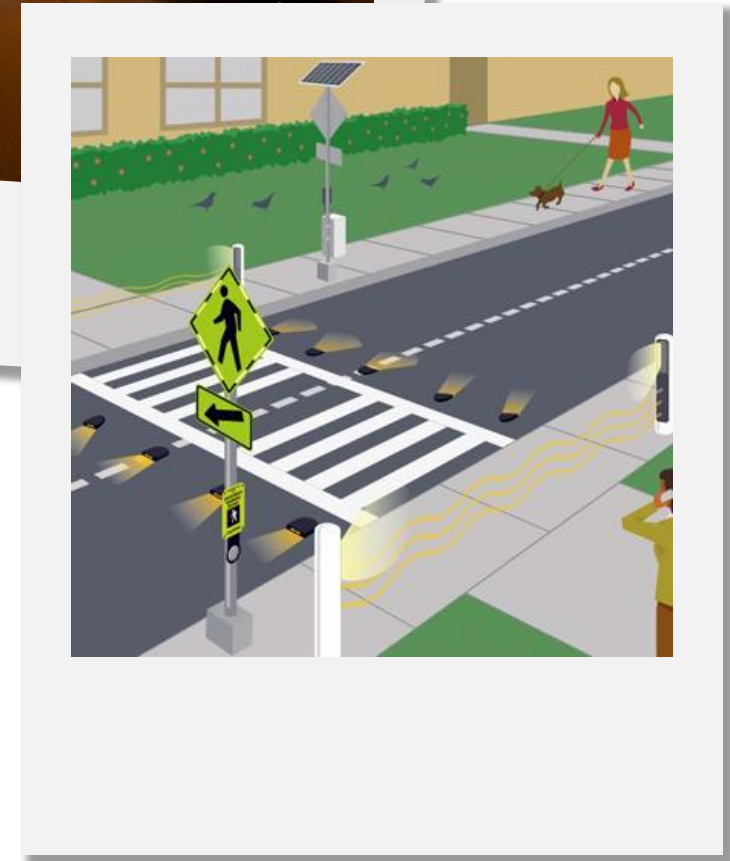
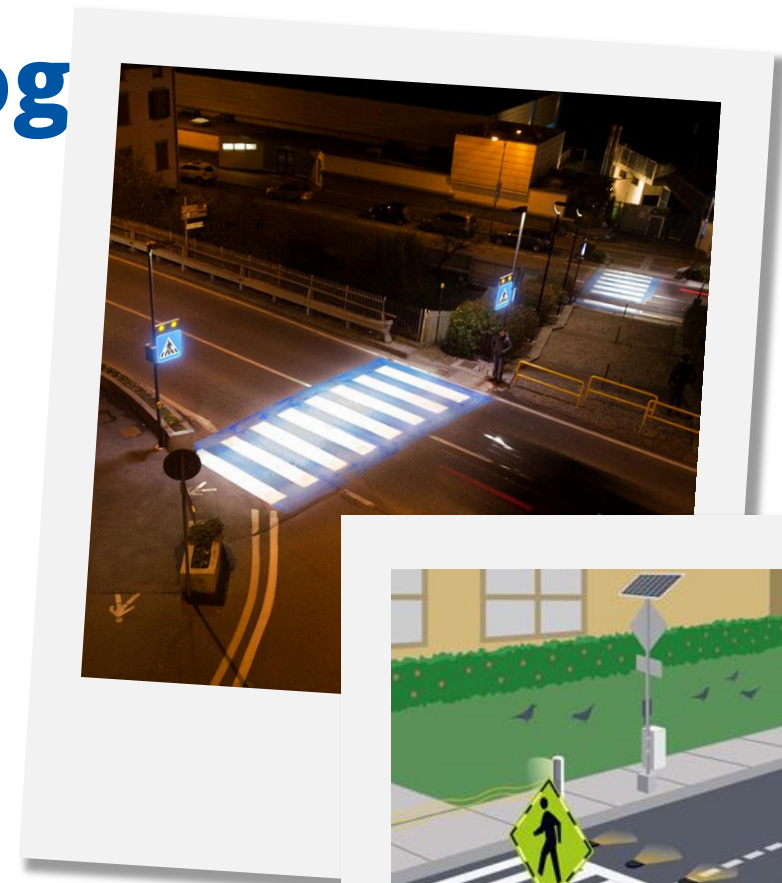
- **GOAL:** Monitor ambient roadside weather conditions (e.g., temperature) and roadway surface conditions with non-intrusive roadside sensors deployed across the network providing information for actionable responses
 - » Requires physical installation of equipment on twelve (12) toll gantries providing a regional view of the real-time weather conditions for the Mobility Authority maintained roadways
 - » Currently exploring two options:
 - Locally-hosted software platform to collect data from hardened temperature sensors installed at toll gantries
 - Cloud-hosted weather information platform capable of ingesting multiple data sources from field sensors to provide real-time ambient weather conditions and roadway surface conditions



Shared-Use Path Safety Prog



- Video-based pedestrian detection platform that identifies pedestrians prior to at-risk roadway crossings and actuates a response from the infrastructure
 - » Proposed responses include flashing signage, CV messaging, audible alert
 - » Discussed locations include near Costco along 183A and on the northside of 45SW



Proposed FY24 Capital Budget Amendment #2



- The second proposed amendment would increase the current funding for the Central Host Upgrade
 - » The Central Host is the backbone of the Kapsch toll collection system, responsible for collecting roadside information and forwarding to DPS for processing
 - » The Kapsch Central Host must remain operational until all the existing roadways have been transitioned to ETC's responsibility

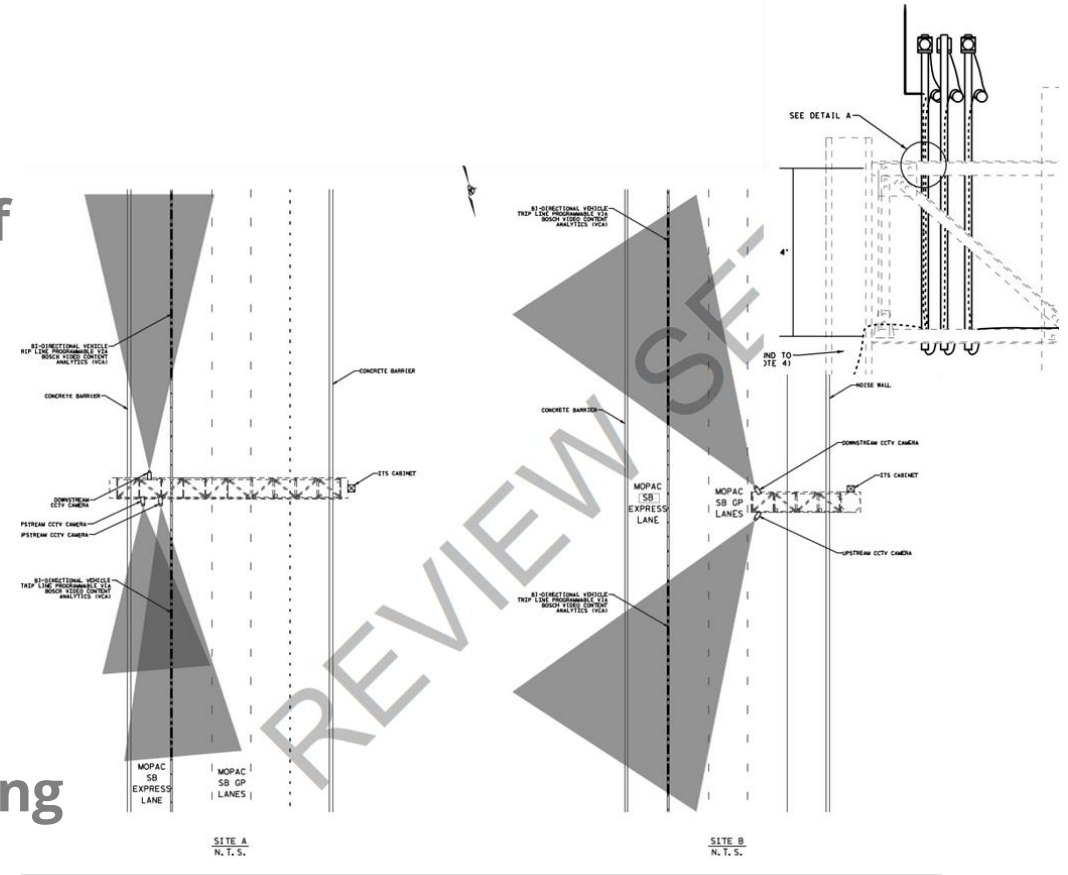
Proposed Alternate Projects	Safety	Revenue Collection / Violation Mitigation	Technology Improvement
Kapsch Host Upgrades		X	X

- An additional \$1.5M is proposed to be added to this line item, increasing the budget from the current \$1M to \$2.5M

Proposed FY24 Capital Budget Amendment #3



- The third proposed amendment would add \$53,400 for a MoPac lane safety pilot project
 - » iMile stands for Intelligent Management of Integrity Levels of Expressway
 - » Pilot project will monitor lane diving behavior using video analytics to provide information for monitoring and evaluation
 - » Benefits include discouraging unsafe motorist movement, providing accurate data for planning purposes, and establishing a framework for enforcing violations



Proposed Alternate Projects	Safety	Revenue Collection / Violation Mitigation	Technology Improvement
IMile Lane Safety Project	X		X

Summary of Proposed FY24 Capital Budget Amendments



- Current FY24 Capital Budget allocation = \$8,015,100

Project	Purpose	Budget Amount
Automated Incident Detection Cameras	Safety Technology	\$4,776,900
Automated License Plate Reader Technology	Toll Violation	\$3,238,200
	TOTAL	\$8,015,100

- Proposed FY24 Capital Budget amendment allocation = \$8,015,100

Budget Section	Purpose	Proposed Amount
Capital Budget: Alternate list of proposed projects	Varied	\$6,461,700
Renewal & Replacement: Central Host Upgrade	Toll Collection	\$1,500,000
Renewal & Replacement: MoPac Lane Safety Pilot	Safety	\$ 53,400
	TOTAL	\$8,015,100

FY24 Capital Budget Amendment



- Staff recommends the Board approve amending the FY 2024 Capital Budget to fund the various toll collection and intelligent transportation system (ITS) projects



AGENDA ITEM #5

Mike Sexton, P.E.
Director of Engineering

Discuss and consider approving an interlocal agreement with the City of Cedar Park for the development and construction of the New Hope Drive/183A intersection improvements project

183A/NEW HOPE INTERSECTION PROJECT



Project Description:

- Improvements to the 183A and New Hope Drive intersection to accommodate increased traffic
- Part of a larger project being designed and constructed by Cedar Park

GROWTH



- **New Developments**
 - » **Nebraska Furniture Mart**
 - » 118-acre property to include hotel, convention center, retail, and warehouse
 - » **New Hope Project**
 - 48-acres of industrial space, 40-acres of retail and mixed-use
- **Neighboring Traffic Generators**
 - » **HEB Center**
 - » **The Parke**
 - » **Cedar Park Regional Medical Center**

RELATIONSHIP



- The proposed improvements of the 183A and New Hope Drive intersection are within CTRMA's right-of-way
 - » **City of Cedar Park to design/build/inspect**
 - » **CTRMA to review, monitor and oversee design and construction to ensure preservation of CTRMA assets**



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ADJOURN MEETING #6

November 15, 2023