



2025 ANNUAL REPORT OF CONDITIONS



















AtkinsRéalis USA, Inc. 3300 N. Interstate 35, Suite 300

Austin, Texas 78705
Telephone: +1.512.342.3297

Fax: +1.512.996.9784 www.atkinsrealis.com

March 18, 2025

Mr. James Bass, Executive Director Central Texas Regional Mobility Authority 3300 N. Interstate 35, Suite 300 Austin, Texas 78705

Subject: 2025 Annual Report of Conditions - 183A Turnpike, 290E, SH 71 Express, SH 45 Southwest,

183 South, 183A Phase III Project, 183 North Mobility Project

Mr. Bass:

As General Engineering Consultant to the Central Texas Regional Mobility Authority (Mobility Authority) and in accordance with Section 712 of the Master Trust Indenture, AtkinsRéalis is pleased to submit the 2025 Annual Report of Conditions for the 183A Turnpike, 290E, SH 71 Express, SH 45 Southwest, 183 South, 183A Phase III, and 183 North Mobility Projects, otherwise known as the System. This report sets forth our findings as to the condition of the System, as well as our recommendation of proper operations and maintenance of the System and associated budget during fiscal year (FY) 2026.

AtkinsRéalis conducted a visual inspection of all portions of the System in fall 2024. Bridges are inspected as part of TxDOT's Bridge Inventory, Inspection and Appraisal Program (BRINSAP) every two years per applicable federal requirements in accordance with the National Bridge Inspection Standards. The findings of the most recent BRINSAP inspections, conducted in 2023, were provided to the Mobility Authority and are reflected in this year's report. In addition, visual observations of bridges were completed in 2024 under the Maintenance Bridge Inspection Tracking System (MBITS) program, which are performed during alternate years,

There are two projects in the System currently under construction and therefore not operational at the time of inspection. The first project, 183A Phase III Project, commenced construction activities in Spring 2021 and will extend the 183A Turnpike north from Hero Way to north of SH 29, with approximately 6.6 total miles of road improvements and transitions. The second project, 183 North Mobility Project, commenced construction activities in early 2022 and will include two express lanes in each direction along 9 miles of US 183 between SH 45 North/RM 620 and State Loop 1 (MoPac), the addition of a fourth general-purpose lane in each direction, and two express lane direct connectors to and from MoPac. Although neither project is open to traffic, expenses for capital expenditures should be included in the recommended budget for FY 2026.

We appreciate the opportunity to provide the services required of the General Engineering Consultant, and we wish to acknowledge the excellent cooperation of the Mobility Authority staff in the performance of these services.

Sincerely,

Gregory S. Blake, P.E.

Sr. Division Manager, AtkinsRéalis USA, Inc.

Cc: Tracie Brown, Director of Operations, Central Texas Regional Mobility Authority Jose Hernandez, Chief Financial Officer, Central Texas Regional Mobility Authority Jori Liu, Director of Communications, Central Texas Regional Mobility Authority Greg Mack, Director of IT & Toll Systems, Central Texas Regional Mobility Authority Mike Sexton, P.E., Director of Engineering, Central Texas Regional Mobility Authority File

**** Table of Contents

ACRONYMS AND ABBREVIATIONS	4
SYSTEM MAP	🢆
EXECUTIVE SUMMARY	6
1.0 INTRODUCTION	7
1.1 BACKGROUND	
1.2 INSPECTION PROCESS	
1.3 DESCRIPTION OF SYSTEM	12
1.3.1. 183A TURNPIKE	
1.3.2. 183A PH III PROJECT 1.3.3. 290E	
1.3.4. SH 71 EXPRESS	
1.3.5. SH 45 SOUTHWEST	
1.3.6. 183 SOUTH	13
1.3.7. 183 NORTH MOBILITY PROJECT	
1.3.8. FACILITIES/BUILDINGS	
1.4 MAINTENANCE PROGRAM OVERVIEW	14
1.5 CONDITION ASSESSMENT	14
2.0 ANNUAL REPORT OF CONDITIONS	15
2.1 OVERVIEW	
2.2 183A TURNPIKE	15
2.2.1. 183A TURNPIKE ROADWAY	15
2.2.2. 183A TURNPIKE BRIDGES	17
2.2.3. 183A TURNPIKE RETAINING WALLS	18
2.2.4. 183A TURNPIKE BUILDING FACILITIES	18
2.2.5. 183A TURNPIKE MAINTENANCE STORAGE YARD	
2.2.6. 183A TURNPIKE OVERHEAD SIGN BRIDGES	
2.2.7. 183A TURNPIKE TOLL INFRASTRUCTURE	19
2.3 290E	
2.3.1. 290E ROADWAY	
2.3.2. 290E BRIDGES	22
2.3.3. 290E RETAINING WALLS	23
2.3.4. 290E MAINTENANCE STORAGE YARDS	
2.3.5. 290E OVERHEAD SIGN BRIDGES	24
2.3.6. 290E TOLL INFRASTRUCTURE	
2.4 SH 71 EXPRESS	25
2.4.1. SH 71 EXPRESS ROADWAY	
2.4.2. SH 71 EXPRESS BRIDGES 2.4.3. SH 71 EXPRESS RETAINING WALLS	26
2.4.4. SH 71 EXPRESS OVERHEAD SIGN BRIDGES	∠/ 27
2.4.5. SH 71 EXPRESS TOLL INFRASTRUCTURE	
2.5 SH 45 SOUTHWEST	
2.5.1. SH 45 SOUTHWEST ROADWAY	
2.5.2. SH 45 SOUTHWEST BRIDGES	
2.5.3. SH 45 SOUTHWEST RETAINING WALLS	
2.5.4. SH 45 SOUTHWEST OVERHEAD SIGN BRIDGES	
2.5.5. SH 45 SOUTHWEST TOLL INFRASTRUCTURE	29
2.6 183 SOUTH	30
2.6.1. 183 SOUTH ROADWAY	30
2.6.2. 183 SOUTH BRIDGES	32
2.6.3. 183 SOUTH RETAINING WALLS	33
2.6.4. 183 SOUTH OVERHEAD SIGN BRIDGES	
2.6.5. 183 SOUTH TOLL INFRASTRUCTURE	33

	2/
3.0 ONGOING INITIATIVES	
3.1 ASSET MANAGEMENT	
3.2 TECHNOLOGY INITIATIVES	34
3.2.2. INTELLIGENT TRAFFIC SYSTEMS MASTER PLAN	34 27
3.2.3. ITS RETROFITS AND EXPANSIONS	
3.2.4 REGIONAL COLLABORATION	
3.3 OPERATIONS INITIATIVES	36
3.3.1. ELECTRONIC TOLL COLLECTION SYSTEM REPLACEMENT.	36
3.3.2. HABITUAL VIOLATOR REMEDIES	
3.3.3. PAY BY MAIL IMPLEMENTATION	
3.4 COMMUNICATIONS INITIATIVES	36
3.4.1. TRAIL EXPLORER BY CTRMA	36
4.0 ANNUAL BUDGETS	37
4.1 ANNUAL OPERATING BUDGET	
4.2 ANNUAL MAINTENANCE BUDGET	
4.3 ANNUAL CAPITAL BUDGET	
4.5 ANNOAE CAI TIAE BODGET	57
5.0 RENEWAL & REPLACEMENT FUNDING	30
3.0 REINEWAL & REPLACEMENT FONDING	🍑 💆
5.1 R&R OVERVIEW	
5.2 ROADWAY AND MAINTENANCE	39
5.2 ROADWAY AND MAINTENANCE5.2.1. 183A TURNPIKE	39
5.2 ROADWAY AND MAINTENANCE	39 39
5.2 ROADWAY AND MAINTENANCE	39 39 39
5.2 ROADWAY AND MAINTENANCE	39 39 39 39
5.2 ROADWAY AND MAINTENANCE	39 39 39 40
5.2 ROADWAY AND MAINTENANCE	39 39 39 40
5.2 ROADWAY AND MAINTENANCE	39 39 39 40
5.2 ROADWAY AND MAINTENANCE	39 39 40 40 40
5.2 ROADWAY AND MAINTENANCE	39 39 40 40 40
5.2 ROADWAY AND MAINTENANCE	39 39 40 40 40 41 41

















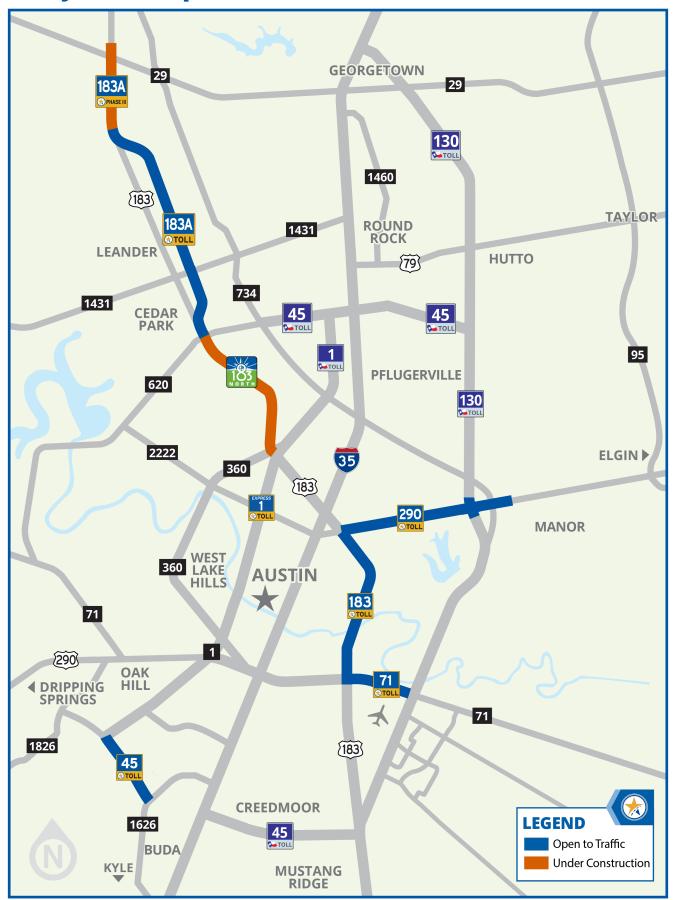
Mathematical MethodsAcronyms and Abbreviations

Bridge Inventory, Inspection and Appraisal Program
Best Management Practice
Capital Area Metropolitan Planning Organization
Closed Circuit Television
Cast in Place
Computerized Maintenance Management System
County Road
Continuously Reinforced Concrete Pavement
Direct Connector
Eastbound
Electronic Toll Collection
Electronic Toll Collection System
Follow Up Action
Fiscal Year
General Engineering Consultant
Ground-fault Circuit Interrupter
Geographic Information System
Interstate Highway
In-Lane Processing
International Roughness Index
Metal Beam Guard Fence
Maintenance Bridge Inspection Tracking System
Mechanically Stabilized Earth
Minimum Technical Required Standards
Northbound
National Bridge Inspection Standard
Permeable Friction Course
Performance Based Maintenance Contractor
Renewal and Replacement
Ranch to Market Road
Right-of-Way
Southbound
Single-line Dynamic Message Signs
State Highway
Shared Use Path
Toll Collection System
Traffic and Incident Management
Texas Department of Transportation
United States Highway
Wide Area Network
Westbound





System Map







IIII Executive Summary

As per Section 712 of the Master Trust Indenture, the Central Texas Regional Mobility Authority (Mobility Authority) requires the General Engineering Consultant (GEC) to conduct an inspection of the System at least once in the fiscal year following substantial completion of the initial project funded with bond obligations, and in each fiscal year thereafter. The System is currently comprised of the 183A Turnpike, 290E, SH 71 Express, SH 45 Southwest, 183 South, 183A Phase III and the 183 North Mobility Projects.

Following each inspection and on or before the 90th day prior to the end of each fiscal year, the GEC should submit to the Mobility Authority a report setting forth:

- Its findings as to whether the System has been maintained in good repair, working order and condition;
- Its advice and recommendations as to the proper maintenance, repair and operation of the System during the ensuing fiscal year; and
- An estimate of the amount of money necessary for such purposes, including its recommendations as to the total amounts and classifications of items and amounts that should be provided for in the annual operating budget, the annual maintenance budget and annual capital budget for the next ensuing fiscal year.

Copies of such reports are to be provided to the Trustee by the Mobility Authority. AtkinsRéalis completed the inspections in fall 2024 and is pleased to report that the System has been maintained in good repair, working order and condition. This observation was based on a general visual inspection of the roadways, buildings, overhead sign bridges, retaining walls and toll gantries.

AtkinsRéalis recommends that the Mobility Authority continue to implement the routine maintenance as budgeted and scoped and implement the Renewal and Replacement (R&R) projects planned for the ensuing fiscal year. Through coordination with Mobility Authority staff, and in review of the R&R projects anticipated through FY 2030, the following budgets are recommended:

RECOMMENDED BUDGETS		
Operating Expenses FY 2026	\$49,900,000	
Maintenance Expenses FY 2026	\$12,000,000	
R&R Fund FY 2026	\$21,800,000	
R&R Fund FY 2027	\$19,800,000	
R&R Fund FY 2028	\$13,800,000	
R&R Fund FY 2029	\$19,700,000	
R&R Fund FY 2030	\$1,500,000	

The overall condition of the System and funding levels for the System operating budgets exemplify the Mobility Authority's commitment to maintain and operate a safe and reliable toll road system for the Central Texas region.





1.0 Introduction

1.1 BACKGROUND

In compliance with the requirements of the Master Trust Indenture, AtkinsRéalis conducted a visual inspection of the System roadways open to traffic in fall 2024. The inspection was conducted to assess the general condition of roadways, buildings, overhead sign bridges, retaining walls and toll gantries along the facilities and to identify any deficient elements to be restored to good working condition. This report includes conclusions and recommendations concerning the condition, maintenance, repair and operation; the amount of money necessary for the proper maintenance, repair and operation of the toll roads during FY 2026, and the amount of funds forecasted for R&R Projects.

1.2 INSPECTION PROCESS

The inspection covered all portions of the facilities including pavement, roadside elements, retaining and noise walls, underdeck lighting, drainage structures, signs and sign bridges, pedestrian bridges, pavement markings and associated buildings and equipment.

All bridges constructed on the Mobility Authority System, with the exception of the pedestrian bridges that are not located over travel lanes, undergo a routine safety inspection as part of the Texas Department of Transportation's (TxDOT) BRINSAP to implement the National Bridge Inspection Standards (NBIS). These standards are issued by the Federal Highway Administration and discussed in detail in the Code of Federal Regulations, 23 CFR 650C. NBIS requires all bridges on the Texas Transportation Commission designated State Highway System to be inventoried, inspected and appraised every two years in accordance with the Manual of Maintenance Inspection of Bridges published by the American Association of State Highway and Transportation Officials. In addition, "off-year" bridge maintenance inspections are conducted where visual observations are performed by maintenance personnel through the Mobility Authority System-wide Performance Based Maintenance Contract (PBMC) under the MBITS program. The term "off-year" is used because these inspections are scheduled to generally occur in the alternating years that the BRINSAP routine safety inspections do not occur.

The Mobility Authority performs biennial structural inspections for lighting structures, cantilever and overhead sign bridges, signal poles and pedestrian bridges. These structural inspections are conducted by trained engineers in accordance with TxDOT structural inspection protocols.

For the purpose of this report, the existing roadway conditions were rated and grouped into three major categories: (1) Pavement; (2) Roadside and (3) Miscellaneous. Each category consisted of specific features that were inspected, as shown in Table 1.





Table 1: Roadway Inspection Elements

CATEGORY	ITEM	DESCRIPTION OF INSPECTION
Pavement	Pavement and shoulders	General condition of pavement and shoulders
	Curb/Gutter	Identification of deficiencies such as settlement, cracking, and displacement
	Joints	Identification of deficiencies including joint cracking, faulting, and surface deterioration, etc.
	Culverts	Identification of inadequate drainage at culverts, flumes, and weep holes and condition of safety treatments
Roadside	Ditches	Presence of erosion, silting, presence of debris, lack of vegetation, etc.
Roausiue	Grates/Inlets/Piping	Identification of inadequate drainage at pipes, grates, and inlets
	Ponds	Identification of inadequate drainage, evidence of erosion, and malfunctioning components
	Signs	Conditions associated with mainlane and ramp signing to include damage and day and night visibility
	Pavement Graphics	Condition of pavement graphics to include day and night visibility and section loss
	Pavement Markings	Presence of wear and tear of striping and markings to include day and night visibility and section loss
	Raised Pavement Markers	Condition of raised pavement markers to include missing markers and proper day and night visibility
	Delineators	Condition of delineation to include missing delineators and proper day and night visibility
	Metal Beam Guard Fence (MBGF)	Condition of MBGF and its components, terminal anchors, single guardrail terminals (SGT), etc.
	Attenuators	Condition of various crash attenuation systems
Misc.	Barriers	Condition of concrete barriers and bridge rail
	Coatings	Conditions such as peeling, absent or damaged coatings on concrete traffic barrier, concrete traffic rail, or other coated surfaces
	Fence	Condition of chain-link, barbed wire, and ornamental fencing at the right-of-way (ROW), or within maintenance limits
	Lighting	Conditions associated with lighting structures and their components, bridge underdeck lights, and nighttime inspections for proper operation
	Traffic Signals	Conditions associated with signals and their components, and nighttime inspections for proper operation
	Shared Use Path (SUP)	General condition of concrete path, joints and potential obstructions

Bridge inspections were conducted in 2023 by TxDOT as part of BRINSAP. The findings of the most recent bridge inspections were provided to the Mobility Authority and serve as the basis for the comments and recommendations in the bridge portion of this report. In 2024, visual observations of bridges were performed under the MBITS program. Pedestrian bridge inspections were conducted in 2024 by the GEC as part of the Mobility Authority's structural inspection program.

The existing bridge conditions are rated and grouped by the following categories: (1) Deck; (2) Superstructure; (3) Substructure; (4) Channel; (5) Culverts; (6) Approaches; (7) Miscellaneous and (8) Traffic Safety. Each category consists of specific features that were inspected, as shown in Table 2.

Table 2: Bridge (Traffic and Pedestrian) Inspection Elements

CATEGORY	DESCRIPTION OF INSPECTION	
Deck	Condition of the deck surface, its associated joints, rail, sidewalks/medians, striping, and drainage on top of the bridge structure	
Superstructure	Condition of concrete beams, beam connections and bearings	
Substructure	Condition of columns, bents, abutments, foundations, and riprap	
Channel	Condition of the stream or creek being crossed by the bridge	
Culverts	Condition of the headwalls, wingwalls, slab footing, safety devices and other associated items	
Approaches	Condition of the approach slabs, rail leading up to the bridge, guard fence, and retaining walls at the bridge abutments	
Miscellaneous	Condition of the warning devices such as vertical under clearances, signs, illumination and utility lines	
Traffic Safety	Condition of approach rails and impact attenuators	













Retaining and noise walls, and associated components were rated and grouped in categories (1) Wall or (2) Earth, as described in Table 3.

Table 3: Wall Inspection Components

CATEGORY	DESCRIPTION OF INSPECTION
Wall	Condition of wall face, coping, foundations, joints, panel finishes, and Cast in Place (CIP) sections
Earth	Conditions of the top slope, toe slope, backfill, CIP, and Mechanically Stabilized Earth (MSE) wall

Building conditions were rated and grouped by the following categories: (1) Architectural; (2) Structural; (3) Mechanical and (4) Electrical. Each category consisted of specific features that were inspected, as shown in Table 4.

Table 4: Building Inspection Elements

CATEGORY	ITEM	DESCRIPTION OF INSPECTION
	Building Exterior	Condition of walls, glazing, decks, stairs, handrails, sealants, soffits, doors, paint, and signage
Architectural	Building Interior	Conditions of the lobby, finishes, stairs, doors, restrooms, security system, and ceiling tile
	Roof	Condition of the surface condition, seams, expansion joints, and access
	Drainage	Condition of the roof drains, secondary drainage, gutters, downspouts, and edge flashing
	Site	Condition of the ramps, rails, lighting, retaining walls, screen walls, landscaping, irrigation, and parking
Structural	Structural	Condition of the foundation, ground floor slab, grade beams, walls, elevated floor slabs, roof, columns, and joints
	Mechanical	Condition of cooling and heating systems, air handlers, exhaust fans, ductwork, piping, and insulation
Mechanical	Plumbing	Condition of the piping, water flow and pressure, hot water source, water pumps, natural gas plumbing, sanitary sewer plumbing, fixtures, and water softening system
	Fire Protection Systems	Condition of fire protection systems and backflow preventers
Electrical	Electrical	Condition of the primary transformer, step-down transformer, electrical room, wiring, conduits, emergency power, and communication systems

The structural components of the overhead sign bridges, lighting and signals located on each roadway were inspected as shown in Table 5.

Table 5: Overhead Sign Bridge, Lighting and Signal Elements

CATEGORY	DESCRIPTION OF INSPECTION
	Condition of the foundation
Structural	Condition of the concrete columns
Structural	Condition of the truss connection to the column, including the bolts
	Condition of the arm chords on the truss





The toll system infrastructure required to accommodate the Toll Collection System (TCS) consists of various components at each tolling location including, but not limited to those described in Table 6.

Table 6: TCS Inspection Elements

CATEGORY	DESCRIPTION OF INSPECTION
	Retaining walls and copings
	Drainage features
	Civil site work, including grading, access driveways and fencing
	Toll gantries, including foundations and gantry structures
TCS	In-Lane Processing (ILP) Equipment Enclosures, environmental protection and climate controls for housing the electronic equipment. ILP Equipment Enclosures consist of either cabinets or communications hub buildings
	Conduit and ground boxes providing connections between the ILPs and the Electronic Toll Collection (ETC) Lane equipment installations
	Power and Wide Area Network (WAN) communication services up to the location of the ILP enclosures
	Emergency generators and associated fuel tanks
	Signing, pavement markings, traffic barriers and other roadway appurtenances required at each remote tolling location

It should be noted that the assessment is based on visual observations made in the field without conducting any testing. Inspection data is collected and organized in real-time by means of computer tablets pre-loaded with a Geographic Information System (GIS) based collection application for visualization and analysis. The GIS based maps and output data are spot-checked to verify accuracy and consistency. The observations reflect the condition of the feature(s) on the day the inspection was performed. As such, the opinions, statements and recommendations in this report are based solely on conditions observed during the inspection. As part of this inspection, a list of roadside deficiencies is being provided to the Mobility Authority to forward to either the maintenance or the construction contractor to be addressed as part of their punch list.

An inspection rating scale of 1 to 5 is used to determine the severity of the asset defect, shown in Table 7. No representation or warranty is made that all defects have been discovered or that additional defects will not appear in the future.

Table 7: Condition Assessment Rating Scale

GRADE	RATING	DESCRIPTION
5	Excellent	 Feature is in like-new condition. No deficiencies noted. A rating of 5 indicates the asset is adequately performing and does not require maintenance action.
4	Good	 Feature appearance and functionality/operability are good. A rating of 4 indicates some level of degradation of the asset but has not affected performance and does not require maintenance.
3	Degraded	 Feature appearance and functionality/operability are below average. Maintenance is required but does not require emergency repair to protect the System. A rating of 3 indicates some level of degradation of the asset performance and requires maintenance action but does not warrant expedited maintenance.
2	Unsatisfactory	 Feature appearance and functionality/operability are substandard. Maintenance is required, as soon as practical (1), but does not require emergency repair to protect the System. A rating of 2 indicates the defect identified is showing signs of the asset degrading to the point that it is no longer functional and requires expedited maintenance to protect the public or the System.
1	Failing	 Feature appearance and functionality/operability are unacceptable. Feature has failed and may require emergency repair to protect the public or System.(2) A rating of 1 indicates that the asset is out of service and is in need of replacement or reconstruction.

NOTES:

- (1) Timeframe for which, under normal circumstances, repair work would be prioritized and scheduled.
- (2) The need for emergency repair should be determined based on response times set forth in maintenance protocols set forth by the Mobility Authority as appropriate for a specific deficiency.













For bridges, a 10-point numerical rating scale is used to determine the severity of the asset defect, where a "9" indicates that an element is in "Excellent" condition and a "0" indicates that an element has failed, as shown in Table 8.

Table 8: Bridge Condition Assessment Rating Scale

GRADE	RATING	DESCRIPTION
9	Excellent	All elements are in excellent condition.
8	Very Good	No problems noted.
7	Good	Element has some minor problems. Minor maintenance may be needed.
6	Satisfactory	Minor deterioration of structural elements (limited). Maintenance may be needed.
5	Fair	Minor deterioration of structural elements (extensive). Minor rehabilitation may be needed.
4	Poor	Deterioration significantly affects structural capacity. Major rehabilitation may be needed.
3	Serious	Deterioration seriously affects structural capacity. Repair / rehabilitation is required immediately.
2	Critical	Element shows advanced deterioration. It may be necessary to close the bridge until repaired.
1	Failing	Bridge is closed to traffic, but repairable.
0	Failed	Bridge is closed, and beyond repair.

The Mobility Authority has implemented a pavement management program. As part of this program, pavement condition and ride quality data using the International Roughness Index (IRI) are collected. The frequency of this data collection varies by corridor and is determined by several factors such as age, evidence of distress and timing of preventative maintenance treatments. Condition Score describes a pavement's overall condition in terms of distress and ride quality. Condition Score values range from 1 (worst condition) to 100 (best condition). Table 9 lists the five classes of Condition Scores.

Table 9: Pavement Condition Score Classes

CONDITION SCORE	CLASS	DESCRIPTION
90-100	Α	Very Good
80-89	В	Good
70-79	С	Fair
60-69	D	Poor
1-59	F	Very Poor





1.3 DESCRIPTION OF SYSTEM

1.3.1. 183A TURNPIKE

The Mobility Authority constructed, operates and maintains the 183A Turnpike, a tolled facility stretching 11.6 miles from RM 620 to Hero Way in Williamson County. The corridor is a critical link in the highway network serving an area experiencing tremendous development and economic growth. The Project included phased construction with Phase I opening in 2007, Phase II opening in 2012, and intersection improvements opening in 2015 effectively reducing congestion, enhancing mobility, and providing safer travel and better access to developments along the corridor. Additionally, the project includes 6.9 miles of shared use path and connections to regional trails.





1.3.2. 183A PH III PROJECT

Construction for the third phase of the 183A Turnpike began in 2021. The project includes a 5.3-mile extension of the existing 183A Toll Road northward from Hero Way to north of SH 29. Together with the associated access ramps, frontage road improvements and transitions the overall project length will be approximately 6.6 miles. Upon completion, the roadway will provide two tolled lanes in each direction, within the median of the existing US 183 corridor, and a shared use path from Hero Way to Seward Junction Loop. The project is anticipated open to traffic in 2025.

1.3.3. 290E

The Mobility Authority constructed, operates, and maintains the 290E, a toll road along US 290 from US 183 to just east of Parmer Lane with 7.3 miles of improvements. It includes three tolled mainlanes and three non-tolled general-purpose lanes in each direction, direct connectors (DCs) to US 183 and SH 130, and a 6.3-mile shared use path along the entire corridor. The corridor is a significant link to important roadways in the region including US 183, IH-35 and SH 130, and, effectively reduced congestion on US 290 and provides reliable travel times for tolled and non-tolled travel.





1.3.4. SH 71 EXPRESS

The Mobility Authority operates and maintains SH 71 Express, a 4-mile toll lane in each direction along SH 71 between Presidential Boulevard and east of SH 130 in Travis County. In addition to the tolled lane opened in 2017, the project added 5.6 miles of shared use path connections on both sides of the roadway, improved existing non-tolled lanes, constructed bridges over FM 973 and SH 130 to facilitate through-traffic movement, and ramps connecting SH 71 to SH 130 offering greater connectivity options to drivers. The facility enhances traffic flow, mobility, and driver and pedestrian safety along SH 71, a key east-west corridor connecting to the Austin-Bergstrom International Airport, the city of Bastrop, and points beyond.













1.3.5. SH 45 SOUTHWEST

The Mobility Authority constructed, operates and maintains SH 45 Southwest, a tolled facility stretching from State Loop 1 (MoPac) to FM 1626 in southern Travis and northern Hays counties with 5.2 miles of improvements. The corridor, which opened to traffic in 2019, includes two tolled lanes in each direction and a 4.9-mile shared use path. The facility was built without frontage roads to limit impacts to the surrounding environment. The road offers drivers an alternative to congested neighborhood streets like Menchaca Road, Slaughter Lane and Brodie Lane.





1.3.6. 183 SOUTH

The Mobility Authority constructed, operates, and maintains 183 South, an 8.3-mile-long toll road along US 183, spanning from US 290 to SH 71. The facility upgraded the previous four-lane US 183 to include three tolled mainlanes and three non-tolled general-purpose lanes in each direction - tripling the roadway's previous capacity and constructed multimodal connections along the entire corridor offering greater mobility for all users of the corridor. Aesthetic enhancements are a major facility component and are visible in the unique design of the bridges, walls, and other features. The roadway makes it possible for drivers to travel from Austin-Bergstrom International Airport through Leander without stopping and provides a north-south alternative to I-35.

1.3.7. 183 NORTH MOBILITY PROJECT

The 183 North Mobility Project is currently constructing improvements along a 9-mile stretch of US 183 between SH 45 North/ RM 620 and MoPac. Improvements include two express lanes in each direction, the addition of a fourth general-purpose lane in each direction, and express lane DCs to and from southbound (SB) MoPac. The project also includes operational improvements for the transition to MoPac, new shared use path connections, new sidewalks, and cross-street connections for bicycles/pedestrians. Construction began in early 2022 and the project is expected to open to traffic in 2026.



1.3.8. FACILITIES/BUILDINGS

Mobility Authority facilities provide support for the safe and reliable operation of the System. These facilities include the Traffic and Incident Management (TIM) Center adjacent to the 183A Turnpike in Cedar Park, the 183A Turnpike Maintenance Storage Yard at the Brushy Creek Road interchange, the 290E Maintenance Storage Yard on Old Manor Road and various roadway ILP structures along the Mobility Authority roadways.













1.4 MAINTENANCE PROGRAM OVERVIEW

The Mobility Authority utilizes a System-wide PBMC to maintain its infrastructure. The intent of the PBMC is for the contractor to manage and plan maintenance activities to meet the performance requirements as set forth in the contract. The general maintenance obligations of the PBMC are as follows:

- (1) Maintain the project and related transportation facilities in a proactive and timely manner appropriate for a facility of the character of the project.
- (2) Minimize delay and inconvenience to users and, to the extent the Contractor is able to control, users of adjacent facilities.
- (3) Identify, manage, and correct all defects and damages from Incidents to include cleanup of spilled cargo, removal and disposal of damaged and unsalvageable materials, obtaining required permits, etc.
- (4) Monitor and observe weather and weather forecasts to proactively deploy resources to minimize delays and safety hazards due to heavy rains, snow, ice or other severe weather events.
- (5) Remove debris, including litter, graffiti, animals, and abandoned vehicles or equipment from the ROW.
- (6) Minimize the risk of damage, disturbance or destruction of third-party property during the performance of maintenance activities.
- (7) Coordinate with the Mobility Authority and perform duties and functions on their behalf.
- (8) Perform systematic inspections and maintenance in accordance with the provisions of Maintenance Management Plan to include contractor's Safety and Health Plan and in accordance with the contract.

A PBMC was procured and commenced on July 1, 2020. The contractor was declared in default in October of 2021. The Mobility Authority entered an emergency maintenance services contract in November of 2021 to ensure safe and continued operations of Mobility Authority facilities. The Mobility Authority entered into a tender agreement with the surety and established a contract for completion through the end of the FY 2023 performance bond. The Mobility Authority has entered into an agreement with the completion contractor to resume full scope services provided by the PBMC through FY 2028.

1.5 CONDITION ASSESSMENT

The PBMC is administered by the Mobility Authority. The System and its performance are monitored on a daily basis. Monthly audits are performed through condition assessments of randomly selected sections which amount to 20% of each roadway. This ensures the contractor is maintaining the facilities within the tolerances established by the contract performance measures.





2.0 Annual Report of Conditions

2.1 OVERVIEW

Visual daytime and nighttime condition assessments were conducted in the fall of 2024. Most ratings are based on the 5-point rating scale described in Table 7, while bridges are assessed on the 10-point rating scale described in Table 8. The results of this year's annual inspection indicate the System is performing as expected, being maintained in accordance with the Mobility Authority's asset management program and is in good repair. Corrective measures are being taken to address deficiencies through the Mobility Authority System-wide PBMC and stand-alone maintenance projects.

2.2 183A TURNPIKE

2.2.1. 183A TURNPIKE ROADWAY

ASPHALT PAVEMENT

Visual inspections resulted in identification of minor issues such as transverse and longitudinal cracking; however, the inspection did not identify a significant number of deficiencies in the asphalt pavement that would affect the safety and operations of 183A Turnpike.

The 2024 pavement condition report indicates the asphalt frontage roads range from Very Good to Good condition with isolated areas of Fair, to Poor, to Very Poor conditions likely due to isolated rutting and cracking. In review of the distresses identified for the asphalt section, it appears to exhibit weathering, some raveling, isolated rutting, isolated alligator cracking, isolated block cracking, and longitudinal and transverse cracking. The IRI values indicate Very Good to Good ride quality. Based upon these conditions it is recommended the Mobility Authority consider crack sealing, and a surface seal for the weathering and raveling with the frontage roads and off-ramps be performed. The north end of the corridor will be overlayed as part of the ongoing 183A Phase III Project that is anticipated to be complete in 2025.

CONCRETE PAVEMENT

The visual inspections indicate the concrete pavement along the corridor was in good repair, with some degradation present. Deficiencies noted include minor failures occurring along joints, some of which have been temporarily patched, and transverse cracking across lanes, which is typical and an expected cracking pattern for continuously reinforced concrete pavement (CRCP). The PBMC will monitor to seal cracks and repair spalls as needed as part of regularly scheduled maintenance activities. It was also noted that one location north of Whitestone Boulevard is experiencing diminished ride quality due to settlement and has been temporarily patched. This issue will be addressed with a future slab stabilization project.

The 2024 pavement condition report indicates the concrete section of the 183A corridor is rated as Very Good to Good conditions. The observed distresses included isolated patching that may require some attention. Based upon a generally good ride quality, there are no recommend structural improvements at this time. It is recommended that typical maintenance of joint sealing and repair of damaged joint sealant be continued as part of regularly scheduled maintenance activities.

ROADSIDE

The roadside visual inspection did not identify any deficiencies outside of the PBMC scope. The most common deficiencies noted consisted of siltation at drainage inlets and pipes with more than 20% capacity blockage, some areas reported as high as 40% blocked, thus reducing the drainage to less than the factor of safety. Other deficiencies observed included untreated vegetation growth in isolated areas, a few urban areas with ROW encroachments, several areas of significant (18"-24") erosion in the ditch line, broken curb with loose concrete at several ramp gores, and isolated areas that need minor tree trimming. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

183A Turnpike has numerous detention and water quality ponds along the length of the facility. These ponds serve to provide water quality treatment of the runoff from the roadway and detain the storm water where necessary. The most common deficiencies observed were erosion in isolated areas, vegetation growth, graffiti along pond retaining walls, and several areas of basin/sand filtration that need sediment removal. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.





MISCELLANEOUS

Signs: Signs were assessed by a day and a nighttime visual inspection during the fall 2024 inspections. Peeling, fading, as well as missing small signs were noted along the frontage roads. These deficiencies fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Pavement Graphics, Pavement Markings, and Raised Pavement Markers: Deficiencies identified during day and nighttime visual inspections indicate that there were several locations where the pavement graphics exhibited section loss and lack of reflectivity, pavement markings either exhibited section loss or were missing, and raised pavement markers were missing or non-reflective. As part of the PBMC responsibilities, an independent inspection and work plan was developed to address the deficient graphics, markings and markers, and work is planned for summer of 2025.

Delineators: Delineators were assessed by a day and a nighttime visual inspection during the fall 2024 inspections. The most common deficiency noted was missing delineation along concrete traffic barriers (CTBs) at multiple locations. The deficiencies are within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MBGF, Attenuators, Barriers and Coatings: Safety barriers and guardrail end treatment were inspected for damage and proper functioning. The most common deficiency observed was impact damage on MBGF. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

Fence: No fencing deficiencies were identified.

Lighting: Lighting along the 183A Turnpike corridor was inspected for damage and proper functioning at night. No deficiencies were noted outside of the PBMC scope. For high mast lights, there were locations where illumination outages and minor rust were noted. For safety lighting, there were significant areas of lighting not functioning, missing access panels, and anchor bolts not meeting torque requirements. As part of the PBMC responsibilities, an independent inspection and work plan should be developed to address lighting deficiencies.

Traffic Signals: 183A Turnpike has 22 traffic signals and 18 pedestrian signals on the frontage road that are the Mobility Authority's responsibility and are located at the following intersections: Crystal Falls Parkway, Hero Way, RM 2243, Scottsdale Drive and San Gabriel Parkway. Deficiencies noted included loose anchor bolts and minor impact damage to column supports but remain structurally sound. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

Shared Use Path: A 6.9-mile paved shared use path runs along the 183A corridor from south of Brushy Creek Road to Hero Way. Inspection of the shared use path indicates it is in good repair and deficiencies fall within the PBMC scope. Minor deficiencies noted include vegetation growth, separation, and chipping at joints, rust noted at railings, spalling and cracking on sidewalk paving, vertical displacement with adjacent curb and inlets in isolated locations, vegetation encroachment, tree trimming needed in isolated areas, and several areas of soil missing causing a drop off on edge of path. Several signs were missing along the path as well.





2.2.2. 183A TURNPIKE BRIDGES

The 183A Turnpike bridges were inspected and evaluated in 2023, as part of TxDOT's BRINSAP Program, which is a federally mandated routine bridge safety inspection that occurs on each bridge every other year. The findings of the 2023 bridge inspections serve as the basis for the comments and recommendations in the bridge portion of this report. Additionally, "off-year" maintenance inspections were conducted as reflected in the 2024 MBITS Program findings, which document visual observations performed by TxDOT maintenance personnel and the Mobility Authority through the PBMC. The term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

BRINSAP

During the 2023 BRINSAP inspection, all Mobility Authority-owned bridges on the 183A Turnpike corridor were found to be in good repair. Of the 234 total components rated for the 39 Mobility Authority-owned bridges on the 183A Turnpike, 100% are rated at a 6 or above with 5% of the components within the deck, superstructure, substructure, channel, culvert, or approaches categories received a 6-rating.

The most common deficiencies noted in the BRINSAP reports were minor impact dents on MBGF, spalling along construction joints, cracks in bent caps, cracks and spalls in wingwalls and backwalls, erosion along riprap, accumulation of dirt and debris in deck scuppers, broken and/or disconnected MBGF support posts, and non-functional lights at the turnarounds at one bridge location.

Following BRINSAP inspections, specific areas of concern may show up in Follow-Up Action (FUA) reports that are created by the bridge inspector to recommend action be taken on noted bridge deficiencies. Priority levels are assigned by inspectors based on their judgement on the urgency of a needed maintenance repair. FUA priority levels are as follows:

- Priority Level 1 Action required within 30 days
- Priority Level 2 Action required within 6 months
- Priority Level 3 Action required within 24 months
- Priority Level 4 There is no timeframe required since this level consist of minor issues that do not affect structural performance of a bridge.

As of the 2023 inspection, 35 FUAs were assigned, with one identified as Priority Level 2 and 34 identified as Priority Level 3. The Priority Level 2 FUA has been addressed. There were no Level 1 or Level 4 FUAs assigned to CTRMA bridges.

Due to a recent TxDOT initiative to improve workflow between agencies in order to address bridge deficiencies in a timely manner, overdue FUAs are being tracked and prioritized. It should be noted that of the 35 FUAs, five are now overdue for repairs. Issues for these bridges include minor wearing and spalling of deck surfaces and backwall, channel erosion, and approach rail spalling. All deficiencies that fall within the PBMC scope should be addressed as part of regularly scheduled maintenance activities.

▶ MBITS

Additionally, "off-year" bridge maintenance inspections were conducted in 2024 through the MBITS Program, which consists of visual observations performed by maintenance personnel through the Mobility Authority PBMC. As previously noted, the term "off-year" is used because these inspections are scheduled to occur in the alternating years that the BRINSAP routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.





Bridge deficiencies noted in MBITS report findings from the 2024 inspection included multiple locations where expansion joints need cleaning, deck relief joints need repair, and one bridge rail location with multiple areas of cracking and spalling. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

▶ PEDESTRIAN BRIDGES

The pedestrian bridges were not inspected by TxDOT and were thus included in the GEC's annual inspection. There are five pedestrian bridges along the shared use path adjacent to the 183A Turnpike. All components were rated 6 or above. These bridges were in good repair. Deficiencies noted consisted of vegetative overgrowth under and through trusses, minor erosion, and some spalling and delamination of concrete surfaces. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.2.3. 183A TURNPIKE RETAINING WALLS

The retaining walls on the 183A Turnpike corridor consist primarily of MSE walls. There are also concrete noise walls adjacent to neighborhoods in the Phase I segment of the 183A Turnpike, a concrete block subdivision wall at the Block House Creek neighborhood, and soil nail and drilled shaft wall systems at the Scottsdale Drive underpass.

183A Turnpike retaining walls were in good repair with only minor defects. The defects noted were primarily vegetation growth at multiple locations, including at flumes and inlets on top of walls, and coping cracking and water staining at one location. Neighborhood walls were in good repair. Isolated areas of minor cracking of panels were noted. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

2.2.4. 183A TURNPIKE BUILDINGS FACILITIES

The Mobility Authority's TIM Center is in good repair. The following is a general summary of condition assessment for each building category. These assets are maintained as part of the PBMC scope.

BUILDING EXTERIOR

Building exterior components, including wall systems, sealants, paint, and doors are in good repair. Minor rust on the exterior stairwell tread was found and will be monitored; however, maintenance is not required at this time.

ROOFING

The surface, seams, expansion joints and roofing were observed to be in good repair. No roofing deficiencies were noted at the TIM Center.

BUILDING INTERIOR

Building interior components, including the TIM Center lobby area, corridor finishes, windows, restrooms, security, and paint were in good repair. No building interior deficiencies were noted at the TIM Center.

▶ SITE IMPROVEMENTS

Site improvement components were observed to be in good repair. Deficiencies noted were lid damage at multiple locations for water meters, irrigation, and clean outs. In addition, the irrigation system had exposed areas on the west side of the building. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

STRUCTURE

Structural components were observed to be in good repair. The only deficiency noted was sealant needed for porch columns on concrete foundation. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.





ELECTRICAL SYSTEMS

Electrical components, including panels, wiring, emergency power, transformers, and lighting were in good repair, although there were some isolated electrical issues found. There are two locations where it appears that toll equipment was removed from the bridge above the cash lanes at the Park Street Plaza where power wires were exposed and capped but not placed in a covered junction box. In addition, junction boxes around the doors in multiple telecommunication rooms at the TIM Center were not secured, and wires were exposed. It was also observed that ground-fault circuit interrupter (GFCI) devices outside the mechanical room were not operational. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

MECHANICAL SYSTEMS

Mechanical components, including cooling, heating, air handlers, exhaust fans, and alarm systems were in good repair. It should be noted that due to the toll plaza cash lanes no longer active, AC units in the telecommunications room and the elevator room are not required and are permanently unplugged. Consequently, those mechanical systems were not inspected. Otherwise, no mechanical systems deficiencies were noted.

▶ FIRE PROTECTION

Fire protection equipment include alarm systems, smoke detectors, heat detectors, fire extinguishers, and fire suppression system in the server room. Inspection of fire protection equipment are typically performed by the PBMC in January of each year. No deficiencies were observed with the fire protection system.

PLUMBING

Plumbing components, including water piping, insulation, and fixtures were in good repair. No plumbing deficiencies were noted at the TIM Center.

2.2.5. 183A TURNPIKE MAINTENANCE STORAGE YARD

The Maintenance Storage Yard at the Brushy Creek Road intersection provides a secured area for storage of various materials, including signs, lighting poles and fixtures, and other miscellaneous materials. The facility also stores a fully operational anti-icing storage tank and space for solid de-icing agents. This facility, together with the TIM Center, meets the immediate needs for storage of equipment and materials for the northern portion of the System.

The 183A maintenance yard inspection indicated that the yard and the surrounding areas remain in good repair. Deficiencies noted were sealed and unsealed cracks in the asphalt parking area, leaking anti-icing storage tank with corrosion, and scattered litter and debris. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

2.2.6. 183A TURNPIKE OVERHEAD SIGN BRIDGES

A structural inspection of the overhead sign bridges, which include toll gantries and sign structures, was conducted to identify deficiencies associated with their foundations, anchor bolts, base plates, column supports, and arm chord connections and members.

Deficiencies noted include areas with minor rust, anchor bolts needing to be tightened, and tack welding needed. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

2.2.7. 183A TURNPIKE TOLL INFRASTRUCTURE

Toll system infrastructure was inspected. Tolling equipment itself is inspected by a separate party.

The 183A Turnpike toll infrastructure includes nine ILP enclosures located at the NB exit and SB entrance ramps for Brushy Creek Road, the NB entrance and SB exit ramps for Crystal Falls Parkway, Crystal Fall Parkway mainlane, NB and SB Lakeline mainlane, NB Scottsdale Drive exit ramp, and the NB Park Street Mainlane, located at the TIM Center. Emergency generator sites serve the toll locations.





Overall, the ILP enclosures on 183A Turnpike are in good repair. The following is a summary of condition assessment results for ILP enclosures for each hub building category.

HUB BUILDING EXTERIOR AND ROOFING

Building exterior components, including wall systems, sealants, paint, and doors are in good repair. No deficiencies were noted for roofing components, including roof surfaces, seams, and expansion joints. There were instances of degraded findings at the SB Lakeline Mainlane location, specifically a loose handle and surface rust on an exterior door. At the NB Lakeline Mainlane location, sealant was observed to be failing on the exterior of the ILP enclosure. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

▶ HUB BUILDING INTERIOR

Building interior components, including finishes, doors, and paint were in good repair. At the SB Lakeline Mainlane location, the interior walls were observed to have signs of mildew. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

▶ SITE IMPROVEMENTS

Site improvement components were observed to be in good repair. There were some degraded elements at the NB and SB Brushy Creek locations consisting of faded parking lot striping. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

STRUCTURE

No deficiencies were noted for structural components, including foundations, floor slabs, expansion joints, and walls. Structural components were observed to be in good repair. The only deficiency noted was floor slab concrete damage at the NB Crystal Falls Ramp location and should be addressed as part of regularly scheduled PBMC maintenance activities.

▶ ELECTRICAL SYSTEMS

Electrical components, including panels, wiring, emergency power, and lighting were in good repair. However, there were instances of degraded findings at the NB and SB Brushy Creek locations consisting of GFCI devices not operational, as well as conduit duct seal missing. Likewise, GFCI devices were not operational at the NB Lakeline mainlane location, as well as conduit duct seal missing at the SB Lakeline mainlane location. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

▶ MECHANICAL SYSTEMS

No deficiencies were observed for mechanical components, including cooling, heating, air handlers, exhaust fans, and alarm systems.

▶ FIRE PROTECTION

No deficiencies were observed for alarm systems and smoke detectors.

2.3 290E

2.3.1. 290E ROADWAY

ASPHALT PAVEMENT

Although the tolled mainlanes consist primarily of concrete pavement, there is a section of pavement where asphalt transitions to concrete on the east end of the corridor. Visual inspections indicated that the asphalt mainlane pavement was in good repair, with some degradation present. In addition, two locations with failures along the pavement joint were noted. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

The 2024 pavement condition data report indicates the relatively short section (1.84 miles) of asphalt pavement in the eastern portion of this corridor has a distress condition of Very Good with only weathering, some minor rutting, minor alligator cracking, and longitudinal/ transverse cracking observed. The measured IRI values indicate the ride quality is Good. It is recommended that the Mobility Authority consider performing routine crack sealing operations with the consideration of milling and overlay to improve the ride quality if deemed significant, at least by year 2029.





CONCRETE PAVEMENT

Through the Mobility Authority's asset management program, ride quality on concrete pavement mainlanes, including bridge approach and departure transitions, are being actively monitored. As issues are discovered through this monitoring, routine maintenance repairs are performed to stabilize the pavement.

The visual inspections conducted during fall of 2024 indicated that the concrete pavement along the 290E mainlanes was in good repair, with some minor deficiencies present. Transverse cracking was noted along the mainlanes, which is normal behavior for CRCP. In addition, several locations with failures along the pavement joint were noted. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

The 2024 pavement condition data report indicates the distress rating is Very Good. The IRI values indicate a generally good ride quality. No structural improvements are currently recommended; however, it is recommended typical maintenance of joint sealants continue as part of regularly scheduled maintenance activities.

ROADSIDE

The roadside visual inspection did not identify any deficiencies outside of the PBMC scope. The most common deficiencies noted included debris and silt buildup causing more than 20% capacity blockage at drainage inlets and pipes at several locations, with some locations 100% blocked, areas of edge repair needed, untreated and undesired vegetation growth along the corridor, minor turf loss, litter and debris in several areas, ROW encroachment in urban areas, slope erosion in isolated areas, and tree growth encroaching the view of roadway signs at bridges in isolated areas.

Minimal deficiencies were observed on 290E detention ponds. A few elements were identified as minor problems, with the most common deficiencies consisting of vegetation, silt, and debris buildup at pond drainage structures. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MISCELLANEOUS

Signs: Signs were assessed by a day and a nighttime visual inspection. The most common deficiencies noted for small signs were cracked sheeting, peeling, fading, leaning, and turned signs, mostly on frontage roads. Large sign deficiencies observed included sheet peeling at several locations, mostly on Exit Only signs and on the US 290 general-purpose lanes. Several locations on the general-purpose lanes also have large signs that are bent, faded, or damaged. The deficient signs are in need of replacement. A sign replacement project is planned for FY 2026.

Pavement Graphics, Pavement Markings, and Raised Pavement Markers: Day and nighttime visual inspections were conducted for pavement graphics, markings, and markers. The most common deficiencies included graphics that were faded, consisted of section loss, or were cracked, as well as several locations of pavement striping that exhibited section loss or were missing. As part of the PBMC responsibilities, an inspection and work plan was developed to address the deficient graphics, markings and markers and work is planned for summer of 2025.

Delineators: Deficiencies were observed for delineators and object markers, including delineators or object markers that were missing, incorrectly spaced, leaning, or dirty. The deficiencies identified fall within the PBMC scope.

MBGF, Attenuators, Barriers, and Coatings: Safety barriers and guardrail end treatment were inspected for damage and proper functioning. The deficiencies identified fall within the PBMC scope. The most common deficiencies noted were areas of impact damage on MBGF and spalling at concrete traffic barrier bases, and peeling object markers. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.





Fence: No fencing deficiencies were identified.

Lighting: Lighting was inspected for damage and proper function at night. In general, illumination features are in good repair. The most common deficiencies noted for safety and continuous lighting were missing electrical access panels, lighting outages, areas of lighting that were not functioning, and anchor bolt nuts that do not meet torque requirements. For high mast lights, deficiencies found included lighting outages, column rust, and several locations where ground wires were either cut or missing. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Traffic Signals: 290E has two sign mounted flashing beacon assemblies per frontage road location, one set east of Arterial A and the second set west of Johnny Morris Road. Both are the Mobility Authority's responsibility, placed as an advanced warning for signals on approach to these intersections. No significant deficiencies were noted.

Shared Use Path: A paved shared use path runs along the 290E corridor from US 183 to east of SH 130. Visual inspection of the shared use path indicates that it is in good repair. Deficiencies noted include vegetation growth and separation with vertical displacement at joints, rust and failed galvanization on railings, minor spalling on sidewalk paving at several locations, isolated locations where vertical displacement with adjacent curb and inlets is occurring, spalling at locations where rebar is near the surface, missing turf on the sides of the path causing edge drop-offs, tree trimming needed, missing SUP signs, and missing access panel on SUP light poles. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.3.2. 290E BRIDGES

All of the 290E bridges were inspected and evaluated in 2023, as part of TxDOT's BRINSAP Program, which is a federally mandated routine bridge safety inspection that occurs on each bridge every other year. The findings of the 2023 bridge inspections serve as the basis for the comments and recommendations in the bridge portion of this report. Additionally, "off-year" maintenance inspections were conducted as reflected in the 2024 MBITS Program findings, which document visual observations performed by TxDOT maintenance personnel and the Mobility Authority through the PBMC. The term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

As part of an ongoing plan to address ride quality caused by uneven transitions from the roadway section to the bridge section, the ride quality is assessed and repairs are made as needed using foam injection to realign approach and departure slabs with the adjacent pavement, ultimately improving the ride quality for the driver. No significant ride quality issues were noted during this inspection.

BRINSAP

Based on a review of the most recent inspection reports and visual observations, 290E bridges are in good repair. Of the 84 total components rated for the 14 Mobility Authority-owned bridges on 290E, 100% are rated 6 or higher with 4% receiving a 6-rating. No components received a rating lower than a 6. The most common deficiencies noted in BRINSAP reports include horizontal cracks on backwalls, joint seal failure, missing grate from a drainage inlet, and exposed drilled shaft at interior bent due to erosion.

Following BRINSAP inspections, specific areas of concern may show up in FUA reports that are created by the bridge inspector to recommend action be taken on noted bridge deficiencies. Priority levels are assigned by inspectors based on their judgement on the urgency of a needed maintenance repair. As of the 2023 inspection, five FUAs were assigned, with four identified as Priority Level 3, and one Priority Level 4. No bridges were assigned Level 1 or Level 2 FUAs.





Due to a recent TxDOT initiative to improve workflow between agencies in order to address bridge deficiencies in a timely manner, overdue FUAs are being tracked and prioritized. It should be noted that of the five bridges that required follow up action, one bridge is now overdue for repairs. This bridge shows scouring at one location, repair of which falls within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

▶ MBITS

Additionally, "off-year" bridge maintenance inspections were conducted in 2024 through the MBITS program, which consists of visual observations performed by maintenance personnel through the Mobility Authority PBMC. As previously noted, the term "off-year" is used because these inspections are scheduled to occur in the alternating years that BRINSAP routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

Bridge deficiencies were noted in MBITS report findings from the 2024 inspection and include multiple locations with expansion joints that need cleaning, as well as multiple locations with relief joints that need repair. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

PEDESTRIAN BRIDGES

The pedestrian bridges were not inspected by TxDOT and were thus included in the GEC's annual inspection. There is one stand-alone pedestrian bridge along the shared use path adjacent to 290E. None of the components were rated less than a 6. The bridge was in good repair with no significant repair needs.

2.3.3. 290E RETAINING WALLS

The retaining walls on the 290E corridor consist primarily of MSE walls. Wall deficiencies noted included vegetation present, erosion under mow strips, and flume settlement. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Two wall locations, one at Parmer Lane and the second at Harris Branch Parkway, were monitored for movement. A testing and monitoring plan was put in place to establish the source of movement in FY 2023. Repairs at the Harris Branch location were completed in 2023. The Parmer Lane location has continued to be monitored, where the Mobility Authority has completed the design of repairs and will construct the mitigation using prestressed ground anchors during FY 2025. With recent MSE wall experiences on the 290E and 183 South corridors, the Mobility Authority has begun to institute a systemwide wall monitoring program.

2.3.4. 290E MAINTENANCE STORAGE YARDS

The Maintenance Storage Yard on Manor Road near 290E provides a secured area for storage of various materials, including signs, lighting poles and fixtures, and other miscellaneous materials. The facility also stores a fully operational anti-icing storage tank and space for solid de-icing agents. The facility remains in good repair. The inspection observed sealed and unsealed cracking in the parking area, interior lights not functioning, tree encroachment along fencing, corrosion on the bottom of structure sheet metal, and open holes on a couple of the exterior walls. The deficiencies from last year's inspections, such as de-icing bags that were leaching material, as well as chemicals inside of the building that was causing corrosion have been addressed. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities. The Mobility Authority has developed a site revision package for the expansion of the maintenance yard and upgrading of brine facilities in FY 2025.





2.3.5. 290E OVERHEAD SIGN BRIDGES

A structural inspection of the overhead sign bridges, which include toll gantries, sign structures and monotube sign structures, was conducted to identify deficiencies associated with their foundations, anchor bolts, base plates, column supports, and arm chord connections and members. Inspectors observed areas where there was foundation undermining caused by erosion, as well as brackets and truss repair needed. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.3.6. 290E TOLL INFRASTRUCTURE

Toll system infrastructure was inspected. Tolling equipment itself is inspected by a separate party.

The 290E toll infrastructure includes 12 ILP enclosures, consisting of three hub buildings and nine cabinets that house various ETC equipment, and are located at the westbound (WB) and eastbound (EB) tolling locations at the 183 South DCs; the Parmer mainlane tolling location; EB and WB Giles mainlane; EB and WB Giles ramp locations; EB and WB Harris Branch ramp locations; the EB and WB Springdale ramp locations, and the WB DCs at SH 130. Emergency generators serve all tolling locations.

Overall, the ILP enclosures on 290E are in good repair. In general, the deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities. The following is a summary of condition assessment for each category.

HUB BUILDING EXTERIOR AND ROOFING

Building exterior components for the ILP enclosures, including wall systems, sealants, paint, and doors were observed to be in good repair. No deficiencies were noted for roofing components, including surfaces, seams, and expansion joints. Surface rust was noted at the base of the building at the Parmer Mainlane. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

HUB BUILDING INTERIOR

Building interior components, including the finishes, doors, and paint were in good repair. No deficiencies were observed.

▶ SITE IMPROVEMENTS

Site improvement components, including lighting and fences, were observed to be in good repair. No deficiencies were observed.

STRUCTURE

Structural components were observed to be in good repair. No deficiencies were noted for structural components, including foundations and floor slabs on the ILP enclosures. A slab crack at a column on the EB Harris Branch on-ramp was found and will be monitored; however, maintenance is not required at this time.

▶ ELECTRICAL SYSTEMS

Electrical components, including panels, wiring, emergency power, and lighting were in good repair. However, there were instances of degraded findings at the EB DC on-ramp at US 183 and WB DC on-ramp to US 183 consisting of GFCI devices not operational. In addition, deficiencies were found on the WB DC from SH 130 consisting of a missing electrical panel label and missing duct seal for wiring/ conduit. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MECHANICAL SYSTEMS

Mechanical systems components, including cooling, exhaust fans, and alarm systems, were observed to be in good repair.

▶ FIRE PROTECTION

Inspection of fire protection equipment are typically performed by the PBMC in January of each year. Alarm systems and smoke detectors appeared to be in good repair.





2.4 SH 71 EXPRESS 2.4.1. SH 71 EXPRESS ROADWAY

▶ ASPHALT PAVEMENT

Most of the deficiencies noted occurred within the asphalt transition area from concrete to existing flexible pavement. The most common deficiencies observed were cracking at isolated areas, mostly on entrance/exit ramps. Additionally, failure was observed at several areas along joints, and ride quality issues at a few exit ramps. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

The 2024 pavement condition data report indicates the western asphalt section of SH 71 Express has a distress rating of Very Good to Good. The observed distress included shallow rutting, weathering, longitudinal and transverse cracking, and isolated alligator cracking. The IRI values indicate the ride quality is Very Good to Good. It is recommended that the Mobility Authority consider routine of crack sealing throughout the section in conjunction with a surface seal to prevent further weathering.

CONCRETE PAVEMENT

The concrete pavement sections along the corridor are in good repair. Indications of transverse cracking were observed. This is a typical, expected cracking pattern for CRCP. In addition, areas of longitudinal cracking were noted. PBMC will monitor to seal cracks and repair spalls as needed.

The 2024 pavement condition data report indicates the concrete section of the SH 71 Express corridor at the eastern end of the corridor is distress rated as Very Good. There were no distresses observed. The IRI values indicate the ride quality is Very Good to Good. Routine maintenance of joint sealants is recommended. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

ROADSIDE

Roadside elements on SH 71 Express are in good repair. The most common deficiencies noted were siltation blocking 20% capacity at drainage inlets, thus drainage reducing factor of safety, isolated areas of edge drop-offs, litter and debris build-up in isolated areas, untreated and undesired vegetation growth, and locations with slope erosion. Dead trees were also reported. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MISCELLANEOUS

Signs: No deficiencies were noted for large signs on the toll lanes. For small signs, only one minor deficiency was noted where one sign was observed leaning. This falls within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Pavement Graphics, Pavement Markings, and Raised Pavement Markers: Overall, pavement striping, symbols and reflective pavement markers are in good repair. No graphics deficiencies were noted for the toll lanes. Striping deficiencies observed in the toll lanes included section loss and loss of reflectivity. In addition, several locations of Raised Pavement Markers exhibited 20% reflectivity loss. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Delineators: Findings indicate missing delineation along portions of guardrail and safety barriers, as well as nonreflective delineation. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MBGF, Attenuators, Barriers, and Coatings: Typical deficiencies noted included areas of impact damage on MBGF and spalling at concrete traffic barrier bases. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Fence: No fencing deficiencies were noted.





Lighting: The deficiencies noted for safety lighting include lights not functioning and missing access panels. No deficiencies were noted on the toll lanes for continuous lighting. High mast light deficiencies found include missing access panels, light bulbs burned out, and rust. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Shared Use Path: A paved shared use path runs along both sides of the SH 71 Express corridor from US 183 to SH 130. Visual inspection of the shared use path indicates that it is in good repair. The deficiencies noted include several locations with vegetation in joints, rail damage and missing due to impact and theft, minor spalling at several locations, vertical displacement along adjacent curb and inlets in isolated locations, broken and/or missing sections of pavement, dirt covering sections of the SUP, lighting outage at multiple locations along the SUP, locations with bent or damaged signs, three locations with encroaching brush, and multiple locations noted for area of soil missing next to the SUP. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.4.2. SH 71 EXPRESS BRIDGES

All of the SH 71 Express bridges were inspected and evaluated in 2023 as part of TxDOT's BRINSAP Program, which is a federally mandated routine bridge safety inspection that occurs on each bridge every other year. The findings of the 2023 bridge inspections serve as the basis for the comments and recommendations in the bridge portion of this report. Additionally, "off-year" maintenance inspections were conducted as reflected in the 2024 MBITS Program findings, which document visual observations performed by TxDOT maintenance personnel and the Mobility Authority through the PBMC. The term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspections.

BRINSAP

Based on a review of the most recent inspection reports and visual observations, SH 71 Express bridges are in good repair. None of the 18 total components rated for the three bridges on SH 71 Express received a 6 or below rating. The deficiencies noted include deck drains clogged at several locations, and missing clearance signs.

Following BRINSAP inspections, specific areas of concern may show up in FUA reports that are created by the bridge inspector to recommend action be taken on noted bridge deficiencies. Priority levels are assigned by inspectors based on their judgement on the urgency of a needed maintenance repair. As of the 2023 inspection, two FUAs were assigned, both of which were identified as Priority Level 3. No bridges were assigned Level 1 or Level 2 FUAs.

Due to a recent TxDOT initiative to improve workflow between agencies in order to address bridge deficiencies in a timely manner, overdue FUAs are being tracked and prioritized. It should be noted that of the three bridges that required follow up action, none are overdue for repairs.

▶ MBITS

Additionally, "off-year" bridge maintenance inspections were conducted in 2024 under the MBITS program, which consists of visual observations performed by maintenance personnel through the Mobility Authority PBMC. As previously noted, the term "off-year" is used because these inspections are scheduled to occur in the alternating years that the BRINSAP routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

Bridge deficiencies noted in MBITS report findings from the 2024 inspection include missing clearance signs. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.





2.4.3. SH 71 EXPRESS RETAINING WALLS

The retaining walls on the SH 71 Express corridor consist primarily of MSE walls. Based on visual observations, retaining walls on SH 71 Express are in good repair. A few elements were identified as minor problems, with the most common deficiencies being isolated reports of silt build-up in flumes and erosion found at the base of a flume. There were also several locations noted for cracked coping. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.4.4. SH 71 EXPRESS OVERHEAD SIGN BRIDGES

A structural inspection of the overhead sign bridges, which include toll gantries and sign structures, was conducted to identify deficiencies associated with their foundations, anchor bolts, base plates, column supports, and arm chord connections and members. Inspectors observed one location with a loose and out of position upper cross bar. Other deficiencies include two locations with loose leveling nuts, as well as surface areas with minor rust. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.4.5. SH 71 EXPRESS TOLL INFRASTRUCTURE

Toll system infrastructure was inspected. Tolling equipment itself is inspected by a separate party.

The SH 71 Express toll infrastructure includes two ILP enclosures, which are communication cabinets that house various ETC equipment and are located on the north and south sides of the toll gantry, east of FM 973.

An emergency generator site that serves the tolling location is located next to the ILP south of the toll gantry. The exterior, interior, structural, electrical, and mechanical cooling components of the ILP enclosures are in good repair. However, it was observed that the generator, which is located on the south side of the toll gantry in the EB direction, does not appear to be grounded. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.5 SH 45 SOUTHWEST

2.5.1. SH 45 SOUTHWEST ROADWAY

▶ ASPHALT PAVEMENT

The pavement sections along the corridor are in good repair. The most common deficiencies noted were asphalt pavement cracking and potholes at isolated locations. In addition, minor asphalt failures were noted at 2 toll gantries. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.

The 2024 pavement condition data report indicates the SH 45 Southwest corridor has a distress rating of Very Good, with only weathering, isolated shallow rutting, and isolated longitudinal and transverse cracking as observed distresses. The measured IRI values indicate the ride quality is Very Good to Good, with isolated areas of Fair, Poor, and Very Poor rating. It is recommended that the Mobility Authority consider routine crack sealing throughout the section as part of regularly scheduled routine maintenance activities. In addition, it is recommended that shallow milling be considered to smooth out the Very Poor ride quality area and a surface seal to prevent further weathering. A Porous Friction Course (PFC) is recommended to be applied by the year 2029.

ROADSIDE

The roadside elements along the SH 45 Southwest corridor are in good repair. A few deficiencies were noted, such as multiple locations of siltation at drainage inlets blocking more than 20% capacity, untreated and undesired vegetation growth, isolated areas of dead trees, isolated locations with litter, and several bridge joints full of debris. The deficiencies fall within the scope of the PBMC and should be addressed as part of regularly scheduled maintenance activities.





Minimal deficiencies were observed on SH 45 Southwest detention ponds. The deficiencies noted include silt and debris blocking outlets in several ponds, pond erosion at one location, and vegetation and debris at a gabion retaining wall. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MISCELLANEOUS

Signs: Signs were also assessed by a day and a nighttime visual inspection and were in good repair. A few deficiencies for small signs were noted, including signs that were leaning, missing, cracked, or faded. Three deficiencies were noted for damaged large signs. It is recommended that annual reflectivity inspections be continued to ensure compliance with requirements.

Pavement Graphics, Pavement Markings, and Raised Pavement Markers: Overall, pavement striping, symbols and reflective pavement markers are in good repair. A few deficiencies were noted, including several locations where graphics are showing section loss, cracking, and loss of reflectivity, as well as several locations where striping is exhibiting section loss due to damage, mainly on cross streets. There were also several locations of missing or broken raised pavement markers. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Delineators: There were several locations with missing delineators or leaning object markers. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MBGF Fence, Attenuators, Barriers, and Coatings: Safety barriers and guardrail end treatment were inspected for damage and proper functioning. No deficiencies were noted on safety barriers, and minor damage was observed at an attenuator. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Fence: No fencing deficiencies were noted.

Lighting: Lighting along the SH 45 Southwest corridor was inspected for damage and proper functioning at night. In general, illumination features are in good repair. The deficiencies noted include a missing access panel, areas of safety lighting that were not functioning and anchor bolts not meeting torque requirements. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Traffic Signals: SH 45 Southwest has two traffic signals and two beacon assemblies that are the Mobility Authority's responsibility, located at FM 1626. The signals were in good repair. At the time of inspections, there were three locations with impact damage and missing solar panels on Signal Ahead signs. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Shared Use Paths: A paved shared use path runs along the SH 45 Southwest corridor from MoPac and Escarpment Boulevard to FM 1626. Visual inspection of the shared use path indicates that it is in good repair. Minor deficiencies noted includes edge drop offs where erosion is occurring along sidewalk paving, several SUP locations with faded and/or rusty signs, cracking and spalling on the sidewalk paving, locations where several lights were not functioning, minor paint deficiency along railings, bolts missing on railings at one location, and several locations with tree growth over the SUP. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.5.2. SH 45 SOUTHWEST BRIDGES

SH 45 Southwest bridges were inspected and evaluated in 2023, as part of TxDOT's BRINSAP Program, which is a federally mandated routine bridge safety inspection that occurs on each bridge every other year. The findings of the 2023 bridge inspections serve as the basis for the comments and recommendations in the bridge portion of this report. Additionally, "off-year" maintenance inspections were conducted as reflected in the 2024 MBITS Program findings, which document visual observations performed by TxDOT maintenance personnel and the Mobility Authority. The term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.





BRINSAP

Based on a review of the most recent inspection reports and visual observations, SH 45 Southwest bridges are in good repair. Of the 48 total components rated for the eight bridges on SH 45, 100% of the components are rated at a 6 or above. Deficiencies noted include damaged guard fence attenuator reflectors and a disconnected drainpipe near abutment backwall. These deficiencies fall within the scope of the PBMC and should be addressed as part of its regularly scheduled maintenance activities.

Following BRINSAP inspections, specific areas of concern may show up in FUA reports that are created by the bridge inspector to recommend action be taken on noted bridge deficiencies. Priority levels are assigned by inspectors based on their judgement on the urgency of a needed maintenance repair. As of the 2023 inspection, nine FUAs were assigned, four of which were assigned Priority Level 3 and five Priority Level 4. No bridges were given a Level 1 or Level 2, and there are currently no overdue FUAs.

▶ MBITS

Additionally, "off-year" bridge maintenance inspections were conducted in 2024 under the MBITS program, which consists of visual observations performed by maintenance personnel through the Mobility Authority PBMC. As previously noted, the term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

Bridge deficiencies noted in MBITS report findings from the 2024 inspection included multiple locations where expansion joints need cleaning, as well as multiple locations where relief joints need repair. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.5.3. SH 45 SOUTHWEST RETAINING WALLS

The retaining walls on the SH 45 Southwest corridor consist primarily of MSE walls. Based on visual observations, retaining walls on SH 45 Southwest are in good repair, with minor deficiencies noted, including vegetation growth in mow strips at several locations. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.5.4. SH 45 SOUTHWEST OVERHEAD SIGN BRIDGES

A structural inspection of the overhead sign bridges, which include toll gantries and sign structures, was conducted to identify deficiencies associated with their foundations, anchor bolts, base plates, column supports, and arm chord connections and members. All inspected elements appear to be in good repair and no deficiencies were noted.

2.5.5. SH 45 SOUTHWEST TOLL INFRASTRUCTURE

Toll system infrastructure was inspected. Tolling equipment itself is inspected by a separate party. SH 45 Southwest toll infrastructure includes one ILP enclosure, which is a cabinet that houses various ETC equipment, and is located on the west side of the mainlane tolling location, approximately 2.3 miles southeast of Loop 1. An emergency generator site that serves the tolling location is located next to the ILP.

The visual inspection of the toll system infrastructure indicates that the primary components are in good repair, with no deficiencies noted. Efforts should be made to continue to keep all components clean, well maintained and secure for the TCS.





2.6 183 SOUTH

The 183 South project was implemented in two phases: the Interim Build/Segment 1 which spans from approximately US 290E south to Boggy Creek, and the Final Build/Segment 2 which runs from approximately Boggy Creek south to the interchange with US 71. Only Segment 2 remains under warranty; the remaining provisions in place for various items are as summarized in Table 10, below.

Table 10: 183 South Summary of Project Warranties

GENERAL SUBJECT	WARRANTY PERIOD AFTER FA
Flexible Pavement: Failure in Surface/Base	5 Years
Concrete (Rigid) Pavement: Cracking, Joint Deficiencies, and Surface Defects	5 Years
Concrete (Rigid) Pavement: Settlement	5 Years
Structural Concrete	5 Years
Steel Paint Systems	5 Years
Concrete Sealer Systems	5 Years
Differential Settlement of New Roadway Grade	5 Years
Settlement and Deflection: Sound, Retaining, Neighborhood Walls and Barriers	5 Years

2.6.1. 183 SOUTH ROADWAY

▶ ASPHALT PAVEMENT

Although the tolled mainlanes consist primarily of concrete pavement, there is a section of pavement where asphalt transitions to concrete on the south end of the corridor. Visual inspections indicated that the asphalt pavement was in good repair, with some minor deficiencies present. Asphalt failures were reported at two locations, as well as minor rutting reported. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

The 2024 pavement condition data report reflects the relatively short section (1.05 miles) of asphalt pavement in the northern portion of this corridor is in Very Good to Good condition. In review of the distresses identified for the asphalt section, it appears to exhibit mainly of longitudinal and transverse cracking. There are no structural improvements recommended at this time.

CONCRETE PAVEMENT

Visual inspections indicated that the concrete pavement along the 183 South mainlanes was in good repair, with some minor deficiencies present. Transverse cracking was noted along the mainlanes, which is normal behavior for CRCP. In addition, one area north of FM 969 to 0.4 miles south of FM 969 exhibited multiple failures and cracking. Particularly, the NB on-ramp from FM 969 has experienced joint separation and longitudinal cracking on the pavement. Upon conclusion of the ongoing investigation of the existing geotechnical condition, the Mobility Authority will implement appropriate mitigation to address the issue in the short and long-term. As part of regularly scheduled maintenance activities, the PBMC will monitor to patch, seal cracks and repair spalls as needed.

The 2024 pavement condition data report reflects the concrete section of the 183 South corridor is rated as Very Good condition. However, a few sections in the middle lane SB and the outer right lane NB in the northern part of the corridor have been classified as Very Poor in terms of ride quality and condition score. These sections do not exhibit any visible distresses. Typical maintenance of joint grinding, sealing and repair of damaged joint sealant is recommended to be continued as part of regularly scheduled maintenance activities.





ROADSIDE

The roadside elements along the 183 South corridor are in good repair. Deficiencies reported include isolated areas where siltation removal is needed at drainage inlets, isolated areas of drop-off needing maintenance, untreated and undesired vegetation growth, litter and debris, minor turf loss, isolated areas of erosion, and dead trees noted in isolated areas along the corridor. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

No pond deficiencies were noted along the 183 South corridor.

MISCELLANEOUS

Signs: Signs were also assessed by a day and a nighttime visual inspection. Other than minor damage, no significant deficiencies were noted for large signs. For small signs, there were several locations where signs were damaged, leaning, dirty, or missing. These deficiencies should be addressed as part of regularly scheduled maintenance activities.

Pavement Graphics, Pavement Markings, and Raised Pavement Markers: Day and nighttime visual inspections were conducted for pavement graphics, markings, and markers. Minor deficiencies were noted for graphics and roadway striping. However, significant loss of striping was observed on bridges and overpasses. In addition, there were multiple areas of missing or damaged raised pavement markers. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Delineators: Delineation on CTBs were missing at multiple locations. Additionally, it was observed that delineation and spacing are not to standards at multiple locations. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

MBGF, Attenuators, Barriers, and Coatings: Safety barriers and guardrail end treatment were inspected for damage and proper functioning. Deficiencies noted included impact damage and paint peeling in several areas. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Fence: No fencing deficiencies were noted.

Lighting: Lighting was inspected for damage and proper function at night. Lighting outages were observed at high mast light poles. Additionally, it was noted that areas of lighting were not functioning, access panels were missing, and anchor bolt nuts are not meeting torque requirements at both safety and continuous light pole locations. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Traffic Signals: There are no traffic signals that are owned or maintained by the Mobility Authority on the 183 South corridor.

Shared Use Path: Visual inspection of the adjacent shared use path indicates that it is in good repair. Deficiencies noted include vegetation growth, separation, and chipping at joints, rust on SUP railings in isolated areas, spalling, cracking, broken panels, and vertical displacement on sidewalk paving at several locations, graffiti, missing signs, tree trimming needed, areas where vegetation establishment hasn't occurred, and several non-functioning safety light poles. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.





2.6.2. 183 SOUTH BRIDGES

All of the 183 South bridges were inspected and evaluated in 2023, as part of TxDOT's BRINSAP Program, which is a federally mandated routine bridge safety inspection that occurs on each bridge every other year. The findings of the 2023 bridge inspections serve as the basis for the comments and recommendations in the bridge portion of this report. Additionally, "off-year" maintenance inspections were conducted as reflected in the 2024 MBITS Program findings, which document visual observations performed by TxDOT maintenance personnel and the Mobility Authority the PBMC. The term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

As part of an ongoing plan to address ride quality caused by uneven transitions from the roadway section to the bridge section, the ride quality is assessed and repairs are made through slab stabilization with foam injection to realign approach and departure slabs with the adjacent pavement, ultimately improving the ride quality for the driver. Several locations were identified as possible candidates for slab stabilization, including the Manor Road Bridge, and the north and south ends of the Colorado River Bridge.

BRINSAP

Based on a review of the most recent inspection reports and visual observations, 183 South bridges are in good repair. Of the 84 total components rated for the 14 bridges on 183 South, 100% were rated 6 or higher, with one receiving a rating of 6 due to impact damage to MBGF terminal end. Deficiencies noted in the BRINSAP report include attenuator and guard fence damage, erosion, and damaged relief joints. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Following BRINSAP inspections, specific areas of concern may show up in FUA reports that are created by the bridge inspector to recommend action be taken on noted bridge deficiencies. Priority levels are assigned by inspectors based on their judgement on the urgency of a needed maintenance repair.

As of the 2023 inspection, seven FUAs were assigned with one bridge identified as Priority Level 2, three identified as Priority Level 3, and three Priority Level 4. The Level 2 bridge has already been addressed.

Due to a recent TxDOT initiative to improve workflow between agencies in order to address bridge deficiencies in a timely manner, overdue FUAs are being tracked and prioritized. It should be noted that of the seven FUAs, none are overdue for repairs.

► MBITS

Additionally, "off-year" bridge maintenance inspections were conducted in 2024 under the MBITS program, which consists of visual observations performed by maintenance personnel through the Mobility Authority PBMC. As previously noted, the term "off-year" is used because these inspections are scheduled to occur in the alternating years that routine safety inspections do not occur. These inspections are in addition to and are not meant to be replaced by the federal routine bridge safety inspection.

Bridge deficiencies noted in MBITS report findings from the 2024 inspection included multiple locations where expansion joints need cleaning, as well as multiple locations where relief joints need repair. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.





PEDESTRIAN BRIDGES

The pedestrian bridges were not inspected by TxDOT and were thus included in the GEC's annual inspection. There are four standalone pedestrian bridges along the shared use path adjacent to 183 South, three of which cross over traffic. None of the components were rated less than a 6. The bridge was in good repair with no significant repair needs. Deficiencies noted consisted of handrail damage due to vandalism. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.6.3. 183 SOUTH RETAINING WALLS

The retaining walls on 183 South consist primarily of MSE walls. Based on visual observations, no significant repair needs are required. The Mobility Authority is investigating the MSE wall supporting the northbound on-ramp from FM 969 which has exhibited possible lateral wall movement and settlement. Short-term and long-term repair actions will be identified and implemented upon the conclusion of the geotechnical investigation of this location. Deficiencies noted include wall graffiti and undesirable vegetative growth along wall panels, as well as vegetation blocking flumes and inlets at several locations. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

Sound walls on the 183 South corridor were inspected and no deficiences were noted outside of the scope of the PBMC.

2.6.4. 183 SOUTH OVERHEAD SIGN BRIDGES

A structural inspection of the overhead sign bridges, which include toll gantries and sign structures, was conducted to identify deficiencies associated with their foundations, anchor bolts, base plates, column supports, and arm chord connections and members. The OSB column at the NB on-ramp from FM 969 has shown potential signs of movement relative to its original position over the bearing pads. This location is on-going part of the geotechnical investigation to determine mitigation strategies. On other locations, no significant repairs are needed. The most common deficiency found was rust, loose anchor bolts, and the need to tighten loose leveling nuts to base plates. The deficiencies found fall within the PBMC scope and should be addressed as part of regularly scheduled maintenance activities.

2.6.5. 183 SOUTH TOLL INFRASTRUCTURE

Toll system infrastructure was inspected. Tolling equipment itself is inspected by a separate party. The 183 South corridor included inspection of 11 ILP enclosures located at the following points: 51st Street NB Entrance Ramp, 51st Street NB Mainlane, MLK Jr. Blvd NB Exit Ramp, 51st Street SB Exit Ramp, MLK Jr. Boulevard SB Mainlane, Smith Road NB Exit Ramp, Smith Road SB Entrance Ramp, Thompson NB Mainlane Plaza, Thompson SB Mainlane Plaza, the DC from SH 71 EB to 183 Toll NB, and the DC from 183 Toll SB to SH 71 WB. Emergency generator sites serving the tolling locations are located next to the ILPs.

The visual inspection of the toll system infrastructure indicates that the primary components are in good repair. Deficiencies noted include generator housing damage at the MLK Jr. Blvd NB Exit Ramp and a cover missing on a GFCI junction box at the MLK Jr. Blvd SB Mainlane location. Efforts should be made to continue to keep all components clean, well maintained and secure for the TCS.





3.0 Ongoing Initiatives

3.1 ASSET MANAGEMENT

The Mobility Authority continues to improve upon their Transportation Asset Management Plan through facilitated workshops.

The Mobility Authority continues to use a web-enabled integrated GIS software to serve as their Computerized Maintenance Management System (CMMS). Using this CMMS, the Mobility Authority records maintenance activity accomplishments associated with the GIS-based asset inventory.

The Mobility Authority has implemented a pavement management program for scheduling pavement condition data collection. This inventory and maintenance history will be utilized to support the Mobility Authority in decision-making, providing a strategy to proactively manage its pavement program.

In addition, the Mobility Authority utilizes dashboards to visualize crash data, bridge inspection data, annual inspection deficiency data and financial data for tracking and planning.

This revised review of crash data better serves the quarterly evaluation of the performance of its corridors. Evaluation results are analyzed and used to aid the Mobility Authority in planning and implementing operational improvements as part of the safety management process. If an operational improvement is supported, it should be programmed and considered for funding. In some cases, further investigation is needed to facilitate an informed decision.

Following the localized monitoring efforts and subsequent wall repair projects on 290E, the Mobility Authority expanded its wall monitoring efforts in FY 2025 by establishing a System-wide Satellite Wall Monitoring Program.

3.2 TECHNOLOGY INITIATIVES

The Mobility Authority is leveraging industry best practices in technology to enhance safety and operations on its roadway System.

3.2.1. DATA PLATFORM SOLUTION

The Mobility Authority has implemented a toll transaction solution that provides flexibility and more control of data, providing better and more informed decision-making. The data platform solution transitioned all toll transaction data processing and data management capabilities after the point of transaction creation to a Mobility Authority-managed solution. A third-party vendor will continue to collect and create the toll transaction at the roadside, then pass the fully formed toll transaction to the data platform. Business logic and rules consume the transaction and route the payment request to either the Central United States Interoperability Hub or the Pay by Mail vendor. The solution began processing transactions in August 2023.

The Mobility Authority-managed data platform can support additional business capabilities such as external reporting and internal data analytics. Future development could include adding promotions, discount program logic, and integration with other partners.

3.2.2. INTELLIGENT TRAFFIC SYSTEMS MASTER PLAN

The Mobility Authority has continued to follow its existing Intelligent Traffic Systems (ITS) Master Plan to improve and expand its ITS along existing corridors and those under construction. ITS technologies, such as closed-circuit television (CCTV) cameras, microwave and Bluetooth detectors, connected vehicle roadside units, wrong-way driving detection systems, and dynamic message signs among other technologies improve the Mobility Authority's ability to monitor the performance of its roadways, detect and respond to incidents, and deliver important messaging to drivers. In a continued effort to standardize the approach to ITS, the Mobility Authority is in the process of developing Minimum Technical Requirements and Standards (MTRS). The MTRS will include technical specifications, standard drawings, procedure, and equipment types to ensure all new ITS and ITS-related construction meets the needs of the Mobility Authority ITS Master Plan.



3.0 Ongoing Initiatives continued

3.2.3. ITS RETROFITS AND EXPANSIONS

Continuing the effort to leverage new technology to maximize safety along its roadways, the Mobility Authority has initiated multiple projects to retrofit existing ITS equipment and install new ITS systems along its managed corridors. These projects are the 183A Shared Use Path Pedestrian Safety Project, the system-wide weather sensor deployment, and the 290 ITS Modernization and Standardization Project.

The 183A Shared Use Path Pedestrian Safety Project will include the installation of a video-based detection system which will monitor the 183A Shared Use Path at a high-volume commercial driveway crossing on the 183A service road just North of RM 1431 (Whitestone Blvd) at the entrance to Costco. The purpose of the system is to warn motorists of pedestrians/cyclists approaching the driveway crossing through a series of LED flashing signs. This project is planned to begin construction in the summer of 2025.

The System-Wide Weather Sensor Deployment brings 10 Road Weather Information System devices to existing ITS sites to the 183A Turnpike, 290E, 183 South, and SH 45 Southwest corridors. These devices provide the Mobility Authority the ability to monitor roadway weather conditions in real-time, including ambient temperature, pavement temperature, precipitation, visibility, wind speed, and more. This system allows the Operations team to monitor weather conditions at targeted locations, reducing reliance on third party weather reports allowing for quicker notifications to motorists (through digital message signs, X, etc.), Law Enforcement and Emergency Services, as well as partnering mobility agencies. The first phase of the project was completed in FY 2025. Additional development is in place to gather the data from the weather systems into the Mobility Authority's Google Cloud Platform for additional alerts and analysis.

The 290 ITS Modernization Project seeks to upgrade all legacy ITS cabinets along the 290E tolling corridor to the new Mobility Authority ITS Standards. The new Mobility Authority ITS Standard Cabinet will provide a more robust enclosure adding additional capacity for future expansion and increased security for in-cabinet equipment. This project will also involve the relocation of existing ITS enclosures to more accessible locations to reduce maintenance burden and unnecessary maintenance-related lane closures. Design was completed in FY 2025, and Construction will begin in FY 2025 and carry over into FY 2026.

Operators at the Traffic and Incident Management Center will be able to update the signs real-time to notify drivers of congestion or accidents in the express lane as well as information about the status of the lanes. The project design will be completed in FY 2025. Installation will begin in FY 2025 and completed in FY 2026.

3.2.4. REGIONAL COLLABORATION

The Mobility Authority remains a proactive contributor in the exploration and execution of cutting-edge solutions. They are presently engaged in numerous regional initiatives.

The Central Texas Traffic Management System, a partnership involving the Mobility Authority, Capital Area Metropolitan Planning Organization (CAMPO), TxDOT, CapMetro, and the cities of Austin, San Marcos, Kyle, Round Rock, Georgetown, Pflugerville, Cedar Park and Leander, aims to formulate a region-wide strategy for traffic management. The partnership leverages shared information and collective problem-solving tactics throughout all stages of project development and delivery. Their integrated system will utilize a unified data environment that links with individual agency traffic management systems.

The Central Texas Construction Partnership Program represents a collaboration with the Mobility Authority, TxDOT, City of Austin, Travis County, CapMetro, CAMPO, and the Austin Transit Partnership, with the central goal of actively informing both the public and relevant agencies about ongoing construction work zones and related traffic impacts. The aim is to foresee and manage traffic flow to sustain existing service standards. A collaborative methodology has been forged with partner organizations to facilitate the creation of a Mobility App and Dashboard. This resource aims to keep the public, state and local officials, and contractors updated, aid in decision-making processes and enhance safety across the transportation network.

Texas SMARTTrack showcases collaboration at its finest, involving the Mobility Authority, the University of Texas - Austin, CAMPO, TxDOT, and the City of Austin. Texas SMARTTrack, an acronym for Safety, Mobility,



3.0 Ongoing Initiatives continued

and Autonomy Research and Testing, serves as a world-class testing ground for shared insights from transportation agencies, academia, and the private sector in order to promote improved traffic safety, operations and management, via smart transport infrastructure and automated vehicles. Texas SMARTTrack is designed to be used by governmental bodies for technology evaluations, academic researchers for technology development, and private sector Original Equipment Manufacturers for testing both new vehicles and state-of-the-art tech innovations.

3.3 OPERATIONS INITIATIVES

3.3.1. ELECTRONIC TOLL COLLECTION SYSTEM REPLACEMENT

The Mobility Authority is transitioning to a new electronic toll collection system (ETCS). SH 71 and 290 Toll have been transitioned to the new ETCS. 183A Phase III and 183N will open with the new ETCS in place. Future replacements are being planned for the remaining roadways, including 183A Turnpike, SH 45 Southwest, and 183 South through FY 2027.

3.3.2. HABITUAL VIOLATOR REMEDIES

The Mobility Authority has implemented additional remedies allowable under current legislation. Law enforcement officers are available to identify and stop habitual violators when they are seen on Mobility Authority roadways. In addition to citations, vehicle impoundment is an available remedy available to officers.

3.3.3. PAY BY MAIL IMPLEMENTATION

The Mobility Authority is seeking a vendor for Pay By Mail services as the current vendor contract will expire in March 2027. Procurement activities began in FY 2025. The Mobility Authority expects to select a Pay By Mail Services solution in FY 2026 and begin the process of implementation in FY 2026 continuing with testing and parallel operations in FY 2027.

3.4 COMMUNICATIONS INITIATIVES

3.4.1. TRAIL EXPLORER BY CTRMA

The Mobility Authority has implemented the Trail Explorer by CTRMA mobile app to enhance the experience for those traveling along the 45 SW and 183 SUPs. The app allows trail users to view augmented reality animations and includes GPS guidance for easier navigation along the trails. Monitoring and maintenance of the mobile app and its corresponding augmented reality experiences are performed monthly under the agency's Communications department. Expansion of the mobile app and its augmented reality experiences to include the 183A Trail SUP is ongoing.





W 4.0 Annual Budgets

4.1 ANNUAL OPERATING BUDGET

Annual budgets are currently being prepared by the Mobility Authority for the proper maintenance, repair, and operation of the System for FY 2026. These budgets, which are based on estimated cost projections, together with the factors that may influence costs during this period, should be reviewed by the GECs as they are made available from the Mobility Authority. These budgets should consider the recommended maintenance and repairs noted in the System roadways included in the Annual Report of Conditions; and they should be based on current operating practices and agency organization, anticipated changes in methods of operations, and changes in Mobility Authority staff and organization projected through FY 2026. The budgets shown below do not include non-system costs.

The operations costs consist of administration costs, including accounting, financial and legal expenses, toll collection and toll system maintenance, customer service, violation processing, banking services, policing, and other costs associated with the operations of the System roadways. The estimated costs for the proper operation of these facilities for the coming fiscal year is based on a review of existing conditions, together with a variety of factors that may influence costs during this period. The GEC estimates the FY 2026 System Operating Expenses to be \$49.9M. The factors that determine this estimate include the utilization of consultants/ vendors and the assignment of Mobility Authority personnel. The Annual Operating Budget should be finalized by the Mobility Authority on or before June 30, 2025.

It is the opinion of the GEC that the costs projected for the operation of the System are reasonable estimations of anticipated costs for the FY 2026 Annual Operating Budget.

4.2 ANNUAL MAINTENANCE BUDGET

The maintenance costs include administration costs, roadway contract maintenance activities, and other costs associated with the maintenance of the System roadways. The estimated costs for the proper maintenance and repair of these facilities for the coming year is based on a review of existing conditions, together with the factors that may influence costs during this period. The GEC estimates the FY 2026 Maintenance Expenses to be \$12M. This budget includes the cost of the PBMC contract and asset management support. The actual Annual Maintenance Budget should be finalized by the Mobility Authority on or before June 30, 2025.

It is the opinion of the GEC that the costs projected for the maintenance of the System are reasonable estimations of anticipated costs for the FY 2026 Annual Maintenance Budget.

4.3 ANNUAL CAPITAL BUDGET

The Annual Capital Budget details the Mobility Authority's planned capital expenditures during the ensuing fiscal year. Planned capital expenditures for FY 2026 are summarized below.

The Mobility Authority's 183A Phase III Project began construction in the spring of 2021 with completion anticipated in 2025. Capital expenditures are estimated to be \$9.8M for FY 2026 and are funded by the Project Fund.

The Mobility Authority's 183 North Mobility Project began construction in 2022 with completion anticipated in 2026. Capital expenditures and Mobility Authority costs are estimated to be \$80M for FY 2026, funded by the Project Fund.

The Mobility Authority has three environmental studies underway, MoPac South, 183A Added Capacity, and 290 Toll Extension. These studies are anticipated to continue through FY 2026. Capital expenditures are estimated to be \$2M for Mopac South, \$6.6M for 183A Added Capacity, and \$10M for 290E Phase IV for FY 2026, funded by the General Fund.





4.0 Annual Budgets continued

The Mobility Authority's System of Projects continues to increase in both overall lane miles and geographical footprint. The existing maintenance facilities, currently located along 290E and 183A Turnpike are approaching capacity. With the expansion of 183A Turnpike and construction of the 183 North Mobility Project, it is recommended that additional maintenance facilities be added for effective maintenance. Additional maintenance yard real estate and planning support is estimated to cost \$5.1M and is recommended for the FY 2026. Additionally, an estimated \$2.1M is recommended for FY 2027 to build out the necessary facilities at the new maintenance yard.

The Mobility Authority's ITS devices enable the monitoring of the Mobility Authority's facilities at the TIM Center. With the acquisition of a new headquarters building in FY 2025, the TIM Center will be relocating to the headquarters building in FY 2026. An estimated \$2.9M is recommended to build out the new TIM Center at the Headquarters building, not including additional costs for furniture, generator, hardware, and equipment. The existing TIM Center is to be renovated to function as the Field Operations Building for the maintenance staff. Renovation of the existing TIM Center building is estimated to cost \$2.2M and is recommended for FY 2026.

It is recommended that the Mobility Authority implement additional projects that focus on safety, revenue collection, toll violation mitigation, and technology programs to make efficient use of the organization's financial and human resources. Projects to be implemented in FY 2026 include toll equipment cabinet standardization, enhancements to the RekorOne traffic monitoring and notification systems, and fixed-camera array upgrades. The capital expenditures for these projects are estimated to be \$4.2M in FY 2026.





5.0 Renewal and Replacement Funding

5.1 R&R OVERVIEW

Under the terms of the Master Trust Indenture, R&R Funding should be established for the purpose of paying the cost of:

- Unusual or extraordinary maintenance or repairs not occurring annually, and renewals and replacements, including major items of equipment;
- Repairs or replacements resulting from an emergency caused by some extraordinary occurrence, so characterized by a certificate signed by an authorized representative, approved by the Consulting Engineer and filed with the Trustee stating that the moneys in the Reserve Fund and insurance proceeds, if any, available therefore are insufficient to meet such emergency; and,
- Paying all or any part of the cost of any capital improvements to the System.

5.2 ROADWAY AND MAINTENANCE

5.2.1. 183A

Warrior Pond: Pond expansion and improvements are recommended in FY 2026 to widen the existing pond to increase its capacity and reduce future maintenance costs by lining the bottom of the detention pond with concrete riprap at Warrior Pond. The expected cost for the project is \$3.1M.

Bull Dog Pond: Pond repair and improvements are recommended in FY 2026 and FY 2027 to repair erosion on the embankment wall and reduce future maintenance costs by lining the bottom of the detention pond with concrete riprap at Bull Dog Pond. Design for the project is scheduled for FY 2026, and construction is scheduled for FY 2027. The expected cost for the project is \$1.5M.

Ponds: Pond repair and improvements are recommended in FY 2026 to repair erosion on the embankment wall and reduce future maintenance costs by lining the bottom of the detention pond with concrete riprap at a maximum of five locations along 183A. Design for the projects is scheduled for FY 2026 and FY 2028. Construction is scheduled for FY 2027 and FY 2029. The expected cost is \$7.3M.

Lighting: A lighting upgrade project is recommended in FY 2028 to replace outdated high pressure sodium lights with LED luminaires. The estimated cost is \$1.5M.

5.2.2. 290E

Small and Large Sign Replacement: A small and large sign replacement was recommended for the 290E corridor Phases I and II in FY 2024 and FY 2025. This project is anticipated to be added to the FY 2026 budget and is expected to cost \$3.5M.

290E Maintenance Yard: As the Mobility Authority's system expands, additional equipment, covered storage, and laydown areas are needed at the 290E maintenance yard. The Mobility Authority developed a site plan revision package to expand the asphalt paved laydown yard and detention pond, and add a storage building facility to accommodate the additional equipment, materials, and winter weather treatment material storage. The construction of the project is estimated to cost \$2.1M.

Mill, Seal, and Overlay: A mill, seal and overlay on 290E is recommended for FY 2029. This will replace the asphalt surface, ensuring the life of the pavement is met and is estimated to cost \$1.7M.

5.2.3. SH 71 EXPRESS

SUP Railing: Replacement of pedestrian railing along the SH 71 Express shared use path is recommended in FY 2026 due to vandalism; the costs are estimated at \$510,000.

Mill, Seal, and Overlay: A mill, seal, and overlay on SH 71 Express is tentatively scheduled for FY 2028 as a preventative measure to replace the asphalt surface, ensuring the useful life of pavement is met and is estimated to cost \$5M.

Sign Replacement: A sign replacement project is tentatively scheduled for FY 2028 to maintain the retroreflectivity and legibility of the signs along the corridor. The project is estimated to cost \$1.6M.





5.0 Renewal and Replacement Funding continued

5.2.4. SH 45 SOUTHWEST

PFC Pavement Replacement: SH 45 Southwest pavement surface consists of a PFC which serves as a best management practice (BMP) to satisfy stormwater runoff commitments. This surface is anticipated to need replacement in FY 2029 and is estimated to cost \$12.5M.

Escarpment Boulevard Turnaround: To enhance safety and mobility through the corridor, a turnaround is recommended to be constructed at Escarpment Boulevard in FY 2028 at an expected cost of \$1.6M.

5.2.5. SYSTEMWIDE

Retaining Wall Repair and Stabilization: The GEC recommends the development and implementation of a project to stabilize and repair at least three existing retaining walls on 290E, 183 South and SH 71 Express corridors from FY 2026 to FY 2029. Wall design is planned for one fiscal year, and construction the next; the expected cost is \$6M.

Systemwide Safety Improvements: In order to enhance the safety standards of all corridors, systemwide safety improvements are recommended to be implemented with an annual cost of \$1.5M in FY 2026.

5.3 OPERATIONS

CCTV Camera Replacement: The GEC assisted the Mobility Authority in an evaluation of multiple cameras and vendors in FY 2024 and FY 2025. A vendor and cameras were selected to be the ongoing standard for CCTV cameras. CCTV Camera Replacement to the standard cameras began in FY 2025 and will continue in FY 2026.

Electronic Toll Collection System Replacement: The Mobility Authority is replacing and upgrading its electronic toll collection system on system corridors through FY 2027. It is expected that replacements and the associated costs, will occur in the future as shown in Table 11.

PROJECT	FY 2026	FY 2027
SH 45 Southwest Toll Collection System Replacement	\$1,435,000	
183 South Toll Collection System Replacement		\$10,000,000
183A Turnpike Toll Collection System Replacement	\$6,105,000	

Table 11: Summary of Electronic Toll Collection System Replacement

Roadside Hardening Initiative: Roadside Hardening is the initiative to improve areas impacted by theft and vandalism across the roadway system. Mitigation measures recommended and in progress include access control keyed locks on roadside cabinets, fortification of exposed junction boxes, network redundancy, exposed conduit security barrier, CCTV surveillance, and more visible signage. The estimated cost for the initiative is \$2.3M in FY 2026 and \$737,000 in FY 2027.





6.0 Recommendations

6.1 OVERVIEW

The Mobility Authority is mandated by State law, as well as by the terms of the Master Trust Indenture, to maintain a safe highway facility in sound condition and good working order. An effective maintenance policy contributes significantly to ensuring a safe highway for System users, as well as preserving the investment.

Based on the findings of the annual visual inspections as well as the inventory and condition assessment, the current maintenance program that has been implemented should be continued to effectively secure and maintain the overall condition of each asset. The continued efforts by the Mobility Authority to maintain the roadways, bridges, roadside appurtenances, toll plazas and buildings have kept the overall condition of the Mobility Authority assets in good repair.

6.1.1. ROUTINE MAINTENANCE

AtkinsRéalis recommends that the Mobility Authority continue to implement the routine maintenance as budgeted and scoped through the PBMC. Deficiencies found are outlined in Section 2.2 of this report.

6.1.2. R&R PROJECTS

To continue proper maintenance, repair, and operation of the System, AtkinsRéalis recommends implementation of R&R projects outlined in Section 5.0 of this report.







3300 N. IH-35, SUITE 300 | AUSTIN, TEXAS 78705 512.996.9778 | MOBILITYAUTHORITY.COM

AtkinsRéalis

3300 N. IH-35, SUITE 300 | AUSTIN, TEXAS 78705 512.342.3297 | 512.996.9784

