



Maryland Transportation Authority

BOARD MEETING

THURSDAY, OCTOBER 26, 2023

MARYLAND TRANSPORTATION AUTHORITY
2310 BROENING HIGHWAY
BALTIMORE, MD 21224

IN-PERSON AND LIVESTREAM



MARYLAND TRANSPORTATION AUTHORITY BOARD MEETING

2310 Broening Highway * Training Room – 2nd Floor * Baltimore, MD 21224

OCTOBER 26, 2023 9:00 AM

This meeting will be livestreamed on the [MDTA Board Meeting Page](#)

NOTES:

- This is an In-Person Open Meeting being conducted via livestreaming.
- The public is welcomed to watch the meeting at the link above.
- *If you wish to comment on an agenda item please email your name, affiliation, and the agenda item to nhenson@mdta.state.md.us no later than 5:00 p.m. on October 24th. You **MUST** pre-register and attend the meeting in person in order to comment.* Once pre-registered, all pertinent information will be emailed to you.

AGENDA

OPEN SESSION – 9:00 AM

Call Meeting to Order

1. **Approval** – Open Session Meeting Minutes of September 28, 2023 Chairman 5 min.
2. **Approval** – Contract Awards Donna DiCerbo 20 min.
 - MDTA 2021-01-B – SBR – Comprehensive Preliminary Engineering and Final Design Services
 - MR-3033-0000 – On-Call Structural Repairs and Miscellaneous Modifications
 - KB-3005-0000 – I-695 Repairs and Subgrade Rehabilitation on Sparrows Point
 - KH-3040-0000 – MD 24 Northbound Auxiliary Lane – MD 924 through Singer Road Intersection
- Update** – Contract Awards - VERBAL
 - SV-00210835 – Retroactive – International Association of Chiefs of Police (IACP) Retroactive Video Shoot
3. **Update** – Annual Update on Facility Condition Inspections Tekeste Amare 10 min.
4. **Update** – Executive Director’s Report – Verbal Joseph Sagal 10 min.

Vote to go into Closed Session

CLOSED SESSION – Expected Time 9:45 AM

5. To Discuss Cybersecurity David Goldsborough 10 min.
6. To Discuss an Investigative Proceeding of Possible Criminal Conduct Related to Credit Card Fraud Deb Sharpless 10 min.
7. To Discuss Public Security Acting Col. Joseph Scott 15 min.
8. To Discuss Pending Litigation – Update on Status of Pending Litigation Matters Kim Millender, Esq. 10 min.

Vote to Return to Open Session

Vote to Adjourn Meeting

TAB 1

MARYLAND TRANSPORTATION AUTHORITY
BOARD MEETING

THURSDAY, SEPTEMBER 28, 2023
9:00 A.M.

2310 BROENING HIGHWAY, BALTIMORE MD 21224
IN-PERSON & LIVESTREAMED OPEN MEETING

OPEN SESSION

Paul J. Wiedefeld, Chairman

MEMBERS ATTENDING:

Dontae Carroll – Via Conference Call
William H. Cox, Jr.
Mario J. Gangemi
Cynthia D. Penny-Ardinger
Jeffrey S. Rosen
Samuel D. Snead
John F. von Paris

STAFF ATTENDING:

Jeffrey Brown
Jeffrey Davis
Allen Garman
David Goldsborough
Chantelle Green
James Harkness
Natalie Henson
Richard Jaramillo
Selena McKissick
Kelly Melhem
Mary O’Keeffe
Russell Radziak, Esq.
Tia Rattini
Joseph Sagal
Acting Colonel Joseph Scott
Deborah Sharpless
Jennifer Stump
Paul Trentalance

At 9:00 a.m. Chairman Paul J. Wiedefeld called the meeting of the Maryland Transportation Authority (MDTA) Board to order. The meeting was held in-person at MDTA Headquarters, 2310 Broening Highway, Baltimore MD 21224 and was livestreamed on the MDTA Board Meeting web page.

APPROVAL – OPEN SESSION MEETING MINUTES OF AUGUST 31, 2023

Upon motion by Member William H. Cox, Jr. and seconded by Member Mario J. Gangemi, the open session meeting minutes of the MDTA Board meeting held on August 31, 2023 were unanimously approved.

APPROVAL – CONTRACT AWARDS

- **MT-00210823 – Sludge Debris Removal from Fort McHenry Tunnel (FMT)**

Mr. Jeffrey Davis requested approval from the MDTA Board to execute Contract No. MT-00210823 – Sludge Debris Removal from Fort McHenry Tunnel (FMT) with The Julian Companies, Inc. in the amount of \$548,475.00.

Mr. Davis explained that the purpose of this contract is to provide services for the removal and disposal of liquids, sludge, and debris from four wet wells located at FMT to reduce the amount of sediment into the Bay to avert flooding. The contract includes all labor, transportation, and services necessary for adequate performance in accordance with all applicable local, state, and federal regulations pertaining to worker protection and the protection of the environment.

Upon motion by Member Jeffrey S. Rosen and seconded by Member Cynthia D. Penny-Ardinger, the Members unanimously gave approval to execute Contract No. MT-00210823 – Sludge Debris Removal from Fort McHenry Tunnel (FMT).

- **MT-00210859 – Janitorial Services at John F. Kennedy Highway (JFK) and Thomas J. Hatem Bridge (TJH)**

Mr. Jeffrey Davis requested approval from the MDTA Board to execute Community Services Contract No. MT-00210859 – Janitorial Services at John F. Kennedy (JFK) and Thomas J. Hatem (TJH) Facilities with Lyles Cleaning Company, Inc. in the amount of \$2,160,888.55 (Cost for 5 Years).

Mr. Davis explained that this Community Services contract provides comprehensive janitorial services including supervision, supplies, labor, and equipment at the JFK and TJH facilities. The Pricing and Selection Committee approved the rates for these services on July 27, 2023. Janitorial supplies are included in the contract total and the contract specifies that supplies be purchased from Blind Industries of Maryland, also a Community Service Provider.

Upon motion by Member Mario J. Gangemi and seconded by Member William H. Cox, Jr., the Members unanimously gave approval to execute Community Services Contract No. MT-00210859 – Janitorial Services at John F. Kennedy (JFK) and Thomas J. Hatem (TJH) Facilities

UPDATE – FISCAL YEAR (FY) 2023 OPERATING BUDGET COMPARISON

Mr. Jeffrey Brown updated the MDTA Board on actual versus projected year-to-date spending against the Fiscal Year (FY) 2023 Operating Budget. As of June 30, 2023, 96% of the budget was spent compared to a target of 100%. Object 06 (Fuel & Utilities) was above budget at 110%, due in part, to the delayed receipt of FY 2022 utility invoices that were paid in FY 2023. Object 13 (Fixed Charges) was above budget at 148%, primarily due to insurance premium increases. All other Objects were at or below the targeted spending level. The primary underspending drivers include personnel vacancies and delayed vehicle purchases (shifted to FY 2024).

UPDATE – FISCAL YEAR (FY) 2022 CAPITAL BUDGET COMPARISON

Ms. Jennifer Stump updated the MDTA Board on actual versus projected year-to-date spending against the Fiscal Year (FY) 2023 Capital Budget. As of June 30, 2023, 81.2% of the FY 2023 budget was spent as compared to the targeted spending level of 100%. The total budget for FY 2023 was \$556.0 million. The actual spending through the fourth quarter was \$451.7 million.

UPDATE – QUARTERLY UPDATE ON TRAFFIC AND REVENUE

Ms. Deb Sharpless gave an update to the MDTA Board on Fiscal Year (FY) 2023 Traffic and Revenue (T&R) performance through June 30, 2023.

Ms. Sharpless explained that passenger vehicle traffic levels continue to track very closely to pre-pandemic levels; commercial vehicle traffic levels continue to outperform pre-pandemic levels; and systemwide, transactions and revenue exceed the forecast by 4.2% and 8.5% respectively.

UPDATE – MAJOR PROJECTS UPDATE

Mr. Jim Harkness updated the MDTA Board on the status of Major Projects in the Capital Program. Mr. Harkness explained that as of September 13, 2023, there are twelve major projects in the Capital Program. Eight of the projects are under construction, two are in procurement, and two are under design. This update includes projects funded for construction in the current Consolidated Transportation Program and includes six projects valued in excess of \$100 million. There are four projects from the \$1.1 billion I-95 Express Toll Lanes Northbound Expansion program.

UPDATE – DIVISION OF INFORMATION TECHNOLOGY (DOIT) MAJOR PROJECTS UPDATE

Mr. David Goldsborough updated the MDTA Board on the Division of Information Technology (DoIT) major projects. As of September 28, 2023, the DoIT maintains an active portfolio of 21 projects and continued support of the third-generation tolling system (3G) program. One new project for Health and Safety was added to the portfolio. The IT Risk Assessment has been completed and presented to the Audit Committee on September 12, 2023. This is not an audit so management responses will not be required. The risk assessment sets the roadmap for future potential audit areas based on risk scores.

Mr. Goldsborough also went over some of the significant initiatives that DoIT continues to work on, including the following:

- HR Central Conversion
- Web-Based Appointment Scheduler
- Miss Utility Conversion
- Maximo Spatial
- Open Text Upgrade
- Dynamics SL Upgrade
- HRIS
- Data Center Enhancements Project
- Clearing House Tracking for Health and Safety

UPDATE – CIVIL RIGHTS AND FAIR PRACTICES (CRFP) SOCIOECONOMIC PROGRAMS STATUS

Ms. Tia Rattini updated the MDTA Board on MDTA's progress toward achieving the legislatively mandated socioeconomic program goals for the 4th Quarter of Fiscal Year (FY) 2023, which covers the performance period of July 1, 2022 to June 30, 2023 (Q4 FY 2023).

These programs include the following:

- Disadvantaged Business Enterprise (DBE) Program;
- Minority Business Enterprise (MBE) Program;
- Small Business Reserve (SBR) Program; and
- Veteran-Owned Small Business Enterprise (VSBE) Program.

In addition, Ms. Rattini reported on current strategies focused on outreach, training, and data analysis. These included: PRISM Contract Compliance System; In-Person Outreach Events; Training with the Office of Engineering and Construction; Credit Card Purchases made with DBE, MBE, SBR, and VSBE Vendors; Identifying Additional Opportunities for DBE/MBE/VSBE Participation; and Outstanding DBE/MBE/VSBE Subcontracting Partner Award.

UPDATE – AUDIT COMMITTEE

Member Cynthia D. Penny-Ardinger presented an update on the Audit Committee meeting that took place on September 12, 2023. The Office of Audits is on track to complete the thirteen audits in the Fiscal Year (FY) 2024 Audit Plan. Currently one is complete and one is progress.

Two internal audit reports were presented (see below) and the Committee was satisfied with the results of these audits.

- Risk Assessment of Information Technology Controls
- Audit of Promotional Activities

UPDATE – EXECUTIVE DIRECTOR’S REPORT

Mr. Joseph Sagal gave the Executive Director’s Report. Mr. Sagal gave updates on the following items: the September 13th “Doing Business with the MDTA” series; the September 13th MDTA Job Fair and Open House; the Chesapeake Bay Crossing Study: Tier 2 Open Houses that were held on September 7, 12, and 14; the Annual MDOT Consolidated Transportation Program Tour that commenced on September 19th and runs through November 14th; the BWI Passenger Facility Charge (PFC) Bonds Defeasance; the Weather-Related Cancellation of the September 23rd Susquehanna River Running Festival; and a Summary of Summer 2023 Bay Bridge Traffic.

Mr. Sagal gave kudos to the JFK Maintenance 2 Crew and On-Call Office of Engineering and Construction Staff for resolving the Chesapeake House water tower leak in an expedited manner. Additionally, he gave kudos to Chief Financial Officer Deb Sharpless for being elected as the E-ZPass IAG Executive Management Committee Chairperson.

After Mr. Sagal completed his report, Chairman Paul Wiedefeld reinforced how safety is extremely important and we all need to slow down, pay attention, and buckle up.

VOTE TO ADJOURN MEETING

There being no further business, upon motion by Member William H. Cox, Jr. and seconded by Member Jeffrey S. Rosen, the Members unanimously voted to adjourn the meeting at 10:26 a.m.

The next MDTA Board Meeting will be held on Thursday, October 26, 2023 at 9:00 a.m. at MDTA, 2310 Broening Highway, Baltimore MD and will be livestreamed on the MDTA Board webpage.

APPROVED AND CONCURRED IN:

Paul J. Wiedefeld, Chairman

TAB 2



Maryland Transportation Authority

Wes Moore, Governor
Aruna Miller, Lt. Governor
Paul J. Wiedefeld, Chairman

Board Members:

Dontae Carroll	Cynthia D. Penny-Ardinger
William H. Cox, Jr.	Jeffrey S. Rosen
W. Lee Gaines, Jr.	Samuel D. Snead, MCP, MA
Mario J. Gangemi, P.E.	John F. von Paris

Joseph G. Sagal, Executive Director

MEMORANDUM

TO: MDTA Board
FROM: Director of Procurement Donna DiCerbo, CPPO, CPPB
SUBJECT: MDTA 2021-01 B, SBR Comprehensive Preliminary Engineering and Final Design Services
DATE: October 26, 2023

PURPOSE

To seek contingent approval to execute Contract No. MDTA 2021-01 B, SBR Comprehensive Preliminary Engineering and Final Design Services.

SUMMARY

This project involves the award of one (1) contract to a Small Business Consultant Engineering Firm for Comprehensive Preliminary Engineering and Final Design Services for MDTA. The work shall include but not be limited to structural engineering including analysis, design and rehabilitation of small and ancillary structures, noise walls, retaining walls and buildings; highway design, traffic engineering and studies, environmental engineering, ITS/electrical, geotechnical engineering, surveys, mechanical and electrical engineering services related to bridge, highway and facility (building) projects; permitting, right-of-way support; condition inspection; project delivery; cost estimating; development of operation, warranty and maintenance plans; project and program management; planning; construction management and inspections, and "Phase V" services.

RECOMMENDATION

To provide contingent approval to execute Contract No. MDTA 2021-01 B, SBR Comprehensive Preliminary Engineering and Final Design Services.

ATTACHMENT

- Project Summary



AUTHORITY BOARD PROJECT SUMMARY

Contract No. MDTA 2021-01 B SBR Comprehensive Preliminary Engineering and Final Design Services

PIN NUMBER N/A
MDTA PROJECT NUMBER MDTA 2021-01 B
CONTRACT TITLE Comprehensive Preliminary Engineering and Final Design Services

PROJECT SUMMARY This project involves the award of one (1) contract to a Small Business Consultant Engineering Firm for Comprehensive Preliminary Engineering and Final Design Services for MDTA. The work shall include but not be limited to structural engineering including analysis, design and rehabilitation of small and ancillary structures, noise walls, retaining walls and buildings; highway design, traffic engineering and studies, environmental engineering, ITS/electrical, geotechnical engineering, surveys, mechanical and electrical engineering services related to bridge, highway and facility (building) projects; permitting, right-of-way support; condition inspection; project delivery; cost estimating; development of operation, warranty and maintenance plans; project and program management; planning; construction management and inspections, and "Phase V" services.

SCHEDULE	ADVERTISMENT DATE	Jun-22	PROTEST	YES	NO ✓	PROPOSER	MDTA CONTRACT NO.	CONTRACT AMOUNT
						SuYash Consulting, LLC	AE-3114	\$3,000,000
	ANTICIPATED NTP DATE	Nov-23				Transtech Engineering Consultants, Inc.		
	DURATION/TERM	Five (5) YEARS				BVF Engineering, Inc		
						iCivil Inc.		
						Mercado Consultants, Inc.		
						Wilson T. Ballard Company		
						C.C. Johnson & Malhotra, P.C.		
						Tuhin Basu & Associates, Inc.		
						Brudis & Associates, Inc.		
						Delon Hampton & Associates		

FUNDING SOURCE 100% TOLL REVENUE

MBE PARTICIPATION

		AE-3114 PROPOSED GOAL (%)							
ADVERTISED GOAL (%)									
MBE PARTICIPATION -	OVERALL MBE	15.00%	16.50%						
	AFRICAN AMERICAN	-	2.00%						
	ASIAN AMERICAN	-	9.50%						
	HISPANIC AMERICAN	-	-						
	WOMEN OWNED	-	5.00%						
	VSBE	1.00%	1.00%						



Maryland Transportation Authority

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Aruna Miller, Lt. Governor
Paul J. Wiedefeld, Chairman

Board Members:

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William H. Cox, Jr.	Jeffrey S. Rosen
W. Lee Gaines, Jr.	Samuel D. Snead, MCP, MA
Mario J. Gangemi, P.E.	John F. von Paris

Joseph G. Sagal, Executive Director

MEMORANDUM

TO: MDTA Board
FROM: Director of Procurement Donna DiCerbo, CPPO, CPPB
SUBJECT: MR-3033-0000, On-Call Structural Repairs and Miscellaneous Modifications
DATE: October 26, 2023

PURPOSE

To seek contingent approval to execute Contract No. MR-3033-0000, On-Call Structural Repairs and Miscellaneous Modifications.

SUMMARY

This project is a multi-award contract to provide labor, equipment, materials, etc. necessary to perform miscellaneous structural, concrete, and other types of repairs, upgrades, replacements, and new construction as directed by the Engineer. This work may be required on any portion (bridge, tunnel, highway, building, and all appurtenances) of any of the MDTA's facilities.

RECOMMENDATION

To provide contingent approval to execute Contract No. MR-3033-0000, On-Call Structural Repairs and Miscellaneous Modifications.

ATTACHMENT

- Project Summary



MR-3033-0000 - On-Call Structural Repairs and Miscellaneous Modifications

PROJECT SUMMARY	This project is a multi-award contract to provide labor, equipment, materials, etc. necessary to perform miscellaneous structural, concrete, and other types of repairs, upgrades, replacements, and new construction as directed by the Engineer. This work may be required on any portion (bridge, tunnel, highway, building, and all appearances) of any of the MDTA's facilities.
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(\$)				
Advertised GOAL (%)	Proposed GOAL (%)	Proposed GOAL (%)	Proposed GOAL (%)	
	Browner Builders., Inc.	M. D. Miller t/a The Marksmen	Concrete General, Inc.	
10.00%	10.00%	10.20%	10.00%	
0.00%	2.00%	0.00%	0.27%	
0.00%	0.00%	0.00%	0.03%	
0.00%	2.00%	0.00%	2.05%	
0.00%	6.00%	10.20%	7.65%	
1.00%	1.00%	1.00%	1.00%	

Brawner Builders, Inc. (Brawner)	\$14,465,893.65
M. D. Miller t/a The Marksmen	\$20,341,175.10
Concrete General, Inc.	\$21,969,342.36

FUNDING SOURCE	100%	TOLL REVENUE
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Maryland Transportation Authority

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Board Members:

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William H. Cox, Jr.	Jeffrey S. Rosen
W. Lee Gaines, Jr.	Samuel D. Snead, MCP, MA
Mario J. Gangemi, P.E.	John F. von Paris

Joseph G. Sagal, Executive Director

MEMORANDUM

TO: MDTA Board
FROM: Director of Procurement Donna DiCerbo, CPPO, CPPB
SUBJECT: KB-3005-0000, I-695 Repairs and Subgrade Rehabilitation on Sparrows Point Near Bear Creek
DATE: October 26, 2023

PURPOSE

To seek contingent approval to execute Contract No. KB-3005-0000, I-695 Repairs and Subgrade Rehabilitation on Sparrows Point Near Bear Creek.

SUMMARY

The work to be performed under this Contract is located on I-695 on Sparrows Point near Bear Creek in Baltimore County. The scope of work includes subgrade rehabilitation due to significant settlement and deterioration of a section of roadway located just east of the MD 157 (Peninsula Expressway) underpass. The work also includes repairs to backwalls and approaches of the six bridges crossing Bear Creek, MD 157, and the Tradeport Atlantic Railroad. The repairs and rehabilitation are needed to prevent further settlement and deterioration and to reestablish as-built conditions.

RECOMMENDATION

To provide contingent approval to execute Contract No. KB-3005-0000, I-695 Repairs and Subgrade Rehabilitation on Sparrows Point Near Bear Creek.

ATTACHMENT

- Project Summary



Maryland
Transportation
Authority

AUTHORITY BOARD PROJECT SUMMARY

KB-3005-0000 I-695 Repairs and Subgrade Rehabilitation on Sparrows Point Near Bear Creek

PIN NUMBER 2450
CONTRACT NUMBER KB-3005-0000
CONTRACT TITLE I-695 Repairs and Subgrade Rehabilitation on Sparrows Point Near Bear Creek

PROJECT SUMMARY The work to be performed under this Contract is located on I-695 on Sparrows Point near Bear Creek in Baltimore County. The scope of work includes subgrade rehabilitation due to significant settlement and deterioration of a section of roadway located just east of the MD 157 (Peninsula Expressway) underpass. The work also includes repairs to backwalls and approaches of the six bridges crossing Bear Creek, MD 157, and the Tradepoint Atlantic Railroad. The repairs and rehabilitation are needed to prevent further settlement and deterioration and to reestablish as-built conditions.

SCHEDULE

ADVERTISEMENT DATE 6/6/2023
ANTICIPATED NOTICE TO PROCEED DATE Nov-23
DURATION (COMPLETION DATE) Jun-25

MBE PARTICIPATION

OVERALL MBE
AFRICAN AMERICAN
ASIAN AMERICAN
HISPANIC AMERICAN
WOMEN
NATIVE AMERICAN
VSBE

	(\$) Advertised GOAL (%)	Proposed GOAL (%)
OVERALL MBE	22.00%	22.01%
AFRICAN AMERICAN	8.00%	10.96%
ASIAN AMERICAN	-	0.00%
HISPANIC AMERICAN	-	0.00%
WOMEN	11.00%	11.05%
NATIVE AMERICAN	-	0.00%
VSBE	1.00%	1.00%

ENGINEER'S ESTIMATE (EE) \$38,016,305.25

BID RESULTS

BID PROTEST YES ☐ NO ☒

FUNDING SOURCE 100.00% TOLL REVENUE

	BID AMOUNT (\$)	% VARIANCE TO EE
The Six-M Company, Inc.	\$33,210,000.00	-13%
Kokosing Construction Company, Inc.	\$41,090,276.45	8%
Concrete General, Inc	\$44,137,722.40	16%
Joseph B. Fay Company	\$45,117,986.67	19%



**Maryland
Transportation
Authority**

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Aruna Miller, Lt. Governor
Paul J. Wiedefeld, Chairman

Board Members:

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William H. Cox, Jr.	Jeffrey S. Rosen
W. Lee Gaines, Jr.	Samuel D. Snead, MCP, MA
Mario J. Gangemi, P.E.	John F. von Paris

Joseph G. Sagal, Executive Director

MEMORANDUM

TO: MDTA Board
FROM: Director of Procurement Donna DiCerbo, CPPO, CPPB
SUBJECT: KH-3040-0000, MD 24 NB Auxiliary Lane - MD 924 through Singer Road Intersection
DATE: October 26, 2023

PURPOSE

To seek contingent approval to execute Contract No. KH-3040-0000, MD 24 NB Auxiliary Lane - MD 924 through Singer Road Intersection.

SUMMARY

The work to be performed under this contract is located on MD 24 from MD 924 to north of Singer Road in Harford County. An auxiliary lane will be constructed with median widening on NB MD 24. The auxiliary lane will allow NB MD 24 traffic turning onto WB Singer Road to remain left of thru traffic to reduce queuing at the Singer Road intersection as part of the I-95 Northbound ETL extension project.

RECOMMENDATION

To provide contingent approval to execute Contract No. KH-3040-0000, MD 24 NB Auxiliary Lane - MD 924 through Singer Road Intersection.

ATTACHMENT

- Project Summary



Maryland
Transportation
Authority

CONTRACT NUMBER

CONTRACT TITLE

AUTHORITY BOARD PROJECT SUMMARY

KH-3040-0000 MD 24 NB Auxiliary Lane - MD 924 through Singer Road Intersection

PRJ-0238

KH-3040-0000

MD 24 NB Auxiliary Lane - MD 924 through Singer Road Intersection

PROJECT SUMMARY

The work to be performed under this contract is located on MD 24 from MD 924 to north of Singer Road in Harford County. An auxiliary lane will be constructed with median widening on NB MD 24. The auxiliary lane will allow NB MD 24 traffic turning onto WB Singer Road to remain left of thru traffic to reduce queuing at the Singer Road intersection as part of the I-95 Northbound ETL extension project.

SCHEDULE

ADVERTISEMENT DATE

6/12/2023

ANTICIPATED NOTICE TO PROCEED DATE

Dec-23

DURATION (COMPLETION DATE)

Jun-25

MBE PARTICIPATION

OVERALL MBE

AFRICAN AMERICAN

ASIAN AMERICAN

HISPANIC AMERICAN

WOMEN

NATIVE AMERICAN

VSBE

(\$)

Advertised GOAL

(%)

Proposed GOAL

(%)

24.00%

24.11%

8.00%

10.00%

-

0.00%

-

0.00%

11.00%

14.11%

-

0.00%

2.00%

2.00%

ENGINEER'S ESTIMATE (EE)

\$16,939,091.50

BID RESULTS

BID AMOUNT (\$)

% VARIANCE TO EE

BID PROTEST

YES ☐

NO ☒

FUNDING SOURCE

100.00%

TOLL REVENUE

Allan Myers MD, Inc

\$17,249,777.00

2%

DXI Construction, Inc

\$17,355,469.04

2%

Pessoa Construction, Inc

\$17,584,974.38

4%

Six-M Company, Inc

\$17,980,000.00

6%

Concrete General, Inc

\$18,377,776.20

8%

Brawner Builders, Inc

\$18,730,271.75

11%

Gray & Son, Inc

\$19,052,162.77

12%

Diamond Materials, LLC

\$25,418,678.70

50%

San Jose Construction Group, Inc

\$25,676,059.17

52%

TAB 3



Maryland
Transportation
Authority

Wes Moore, Governor
Aruna Miller, Lt. Governor
Paul J. Wiedefeld, Chairman

Board Members:
Dontae Carroll
William H. Cox, Jr.
W. Lee Gaines, Jr.
Mario J. Gangemi, P.E.
Cynthia D. Penny-Ardinger
Jeffrey S. Rosen
Samuel D. Snead, MCP, MA
John F. von Paris

Joseph G. Sagal, Executive Director

MEMORANDUM

TO: MDTA Board
PRESENTED BY: Deputy Director of Engineering Tekeste Amare, PE
SUBJECT: 2023 Updates on the Annual Facilities Inspections
DATE: October 26, 2023

PURPOSE

The purpose of the memorandum is to inform the MDTA Board of the 2023 Updates on the Annual Facilities Inspections Program.

SUMMARY

This information contains the MDTA Annual Report on Inspection findings for FY 2023.

ATTACHMENTS

2023 Updates on the Annual Facilities Inspections Presentation



Maryland Transportation Authority 2023 Updates on the Structures Inspection Program

Presented By

Tekeste Amare, P.E.

Deputy Director of Engineering

Office of Engineering and Construction

October 2023

Structures Inspection Program

Presentation Overview

- Overview of MDTA Structures Inspection Program
 - Purpose
 - Structures Inventory
 - Annual Inspections
 - 2023 Inspections
- 2023 Updates from Annual Inspections

Structures Inspection Program

Purpose and Goal

Purpose

- MDTA's Bridge and Tunnel Inspection Program determines whether facilities are maintained in **good repair, working order and condition**
- Performed with a mission to provide safe facilities that keep traffic moving and instill public confidence by:
 - Identifying deficiencies
 - Providing accurate reports with comprehensive data
 - Coordinating repair activities in a timely manner

Requirements

- FHWA's requirements NBIS and NTIS (by law)
- MDTA Trust Agreement Requirements
 - Independent corporations to periodically visit MDTA assets
- MDTA OEC's requirements (outlined in Edition 5 of the MDTA Facilities Inspections Manual)

Structures Inspection Program

Major Programs

Annual Inspections Program

- Routine, special and emergency inspections
- Structure & inspection data management
- Repair prioritization & coordination

Authority Structures Inspections and Repair (ASIR) Program

- MDTA's custom-built software for inspection, repair and data management

Load Rating and Hauling Permit Program

- Perform analysis to determine load capacity of bridges and issue permits
- Coordinate among MDOT SHA's OOS and MCD, Baltimore City and Haulers

Inspection Contract Management and Team Development Program

- Management of 5 inspection contracts totaling \$60M over four years
- Management of 1 SBR inspection contract totaling \$5M over four years
- Training, guideline development, and ensuring compliance

Structures Inventory

Structure Types by Numbers

Structure Type	Number
Bridges	326
Tunnels	2
Small Bridges (Culverts)	161
Sign Structures	636
High Mast Lights	353
Noisewalls	60
Retaining Walls	131
SWM Structures	45
Waterfront Structures	3
Radio Control Tower	1

Total : 1718 Assets



Structures Inventory

Bridges and Tunnels by Length and Area

Structure Type	Number	Area (1000 SF)
Bridges	326	15,490
Tunnels	2	1,087
Total	328	16,577



Signature Structures	Facility	No.	Length (mile)	Area (1000SF)
Bay Bridges	WPL	2	8	1,527
Nice/Middleton Bridge	HWN	1	1.9	247
Tydings Bridge	JFK	1	1.0	442
Hatem Bridge	TJH	1	1.5	406
Key Bridge	FSK	1	1.7	556
K-Truss Bridge	BHT	1	0.3	107
Baltimore Harbor Tunnel	BHT	1	1.45	337
Fort McHenry Tunnel	FMT	1	1.3	750
Total		9	17.2	4,405

Annual Inspection Program

Inspection Teams

MDTA Trust Agreement Requirements

- MDTA employs engineering firms within the transportation industry to perform inspections periodically.

In-House Team:

- Lillian Sidrak, PE, Structures Inspection Program Manager
- Structures Engineers: one MDTA employee & two part-time consultants

Consultant Teams:

- 6 Joint Ventures of prime consultants including 30 sub-consultants
- Over 150 Inspection Team Leaders, 60 QC Engineers and 21 Project Managers

Annual Inspection Program

Inspection Types

Hands-On Inspections (HOI)

- Entire structure
- Completed every 2 years for bridges/tunnels
- Completed every 4 years for other ancillary structures

Risk-Based Interim Inspections (RBI)

- Selected portions of structures
- Completed in the off years from the HOI's

Visual Inspections

- Roadway and Traffic Safety Features (TSF)

Underwater Inspections

- Completed every 4 years

Emergency Inspections

- Incident-based

Audit Inspections

- QA/QC process

Special Inspections

- Based on requests
- Specific needs of design, monitoring, testing

2023 Inspections

Inspections Completed

Hands-On Inspections (HOI)

- Signature Bridges and Tunnels including the *Initial Inspection of the New HWN Middleton Bridge*
- Underground SW Structures
- Retaining Walls and Noise Walls

Risk-Based Interim Inspections (RBI)

- Workhorse Bridges
- Small Bridges (culverts)
- High Mast Lighting Structures
- Toll Plazas and Weigh Scales
- Low Level Lights and Camera Poles

Underwater Inspections

- HWN Bridge
- WPL Bridge
- Bear Creek and Curtis Creek

Hydrographic Survey

- WPL Bridge
- HWN Bridge

Visual Inspections

- Roadway & Traffic Safety Features



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2023 Inspections

Providing Data and Information

Information (Data) Type

- Annual Bridge and Tunnel Inspection Data
- Annual Executive Summary Reports
- Structures Asset Data
- Transportation Asset Management Plan
- Annual MFR, Attainment Report, Insurance Renewal Cost, etc.
- Bridge Load Rating Data, Bridge Vertical Clearance Data
- Other Structures data/info

Provided To

- Federal Highway Administration (FHWA) through SHA
- Trustee
- MDOT Asset Management Work Group
- FHWA through SHA
- Multiple MDTA Divisions, etc.
- SHA MCD Maryland-One Hauling Permit Program
- As requested



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2023 Inspections

Providing Trainings and Presentations

- Completed the Biennial Inspection Team Leaders' Training in-person and virtually
- Provided audit results of inspection findings
- Provided new inspection guidelines
- Enhanced the program utilizing today's advancements in technology



2023 Inspection Updates

Inspection Findings

Bay Bridge - Overall in Satisfactory Condition

- Patches, spalls, and delaminations on the eastbound and westbound bridge decks
- Peeling paint with localized surface corrosion at superstructure elements
- Minor to moderate concrete deterioration at bridge substructure elements
 - Numerous defects were undergoing repairs at the time of inspection

Nice Bridge - Overall in Very Good Condition

- The bridge was opened to traffic in October 2022.
- An initial inspection of the bridge was performed shortly thereafter.
- No notable defects were found.

2023 Inspection Updates

Inspection Findings

Tydings Bridge - Overall in Satisfactory Condition

- Minor concrete deterioration at bridge deck
- Minor corrosion on steel bridge superstructure
- Wind shear devices replaced, along with miscellaneous structural steel repairs

Hatem Bridge - Overall in Satisfactory Condition

- Minor surface cracking on the bridge deck
- Minor to moderate corrosion on steel superstructure elements
- Isolated areas of minor to moderate cracks and spalls in the concrete substructure

2023 Inspection Updates

Inspection Findings

Key Bridge - Overall in Satisfactory Condition

- Minor concrete cracks and delamination at bridge deck
- Localized section loss due to corrosion at steel superstructure elements
- Minor concrete deterioration at bridge substructure

K-Truss Bridge - Overall in Satisfactory Condition

- Minor spalls and cracking on the bridge deck
- Isolated corrosion areas at superstructure elements
- Minor to moderate concrete deterioration at bridge substructure

2023 Inspection Updates

Inspection Findings

Baltimore Harbor Tunnel - Overall in Satisfactory Condition

- Minor surface cracks at roadway wearing surface
- Missing and/or impacted ceiling tiles
- Minor concrete deterioration at the underside of the roadway and tunnel walls
- Vent building electrical system - fair condition. Contract HT-3016 underway
- Ventilation fans have been replaced and are in very good condition
- Select pumps replaced

Fort McHenry Tunnel - Overall in Satisfactory Condition

- Tunnel roadway surfaces exhibit minor isolated areas of cracking
- Missing tunnel wall tiles at isolated locations
- Fans operational and currently under rehabilitation

Structural/Mechanical/and Electrical repairs were being performed during the time of inspection at both tunnels

2023 Inspection Updates

Inspection Findings

Sign Structures and New Gantries - Overall in Very Good Condition

- New sign structures in JFK in Cecil county to the Delaware Line were inspected
- New Toll Gantries in the FMT, TJH, FSK and WPL facilities were inspected
- Typical defects found include loose hardware

Low Level Lights (LLL) and Camera Poles - Overall in Good Condition

Inspections of the LLL were performed using a newly launched mobile application

- New LED lighting was implemented on the JFK Rest Areas and FSK facilities
- Typical defects include loose hardware, broken breakaway boxes, and some poles required removal

2023 Inspection Updates

Inspection Findings

Workhorse Bridges - Overall in Very Good to Satisfactory Condition

- New bridges - Initial Inspections performed on the Abingdon Road, Clayton Road, and Raphael Road Bridges in the JFK Facility
- Typical defects on all facility bridges include minor spalls, cracks, and steel corrosion

High Mast Lights (HML) - Overall in Good Condition

- Majority of Fort McHenry Tunnel Facility HMLs have been replaced
- Typical defects include some loose hardware and non-functional luminaires

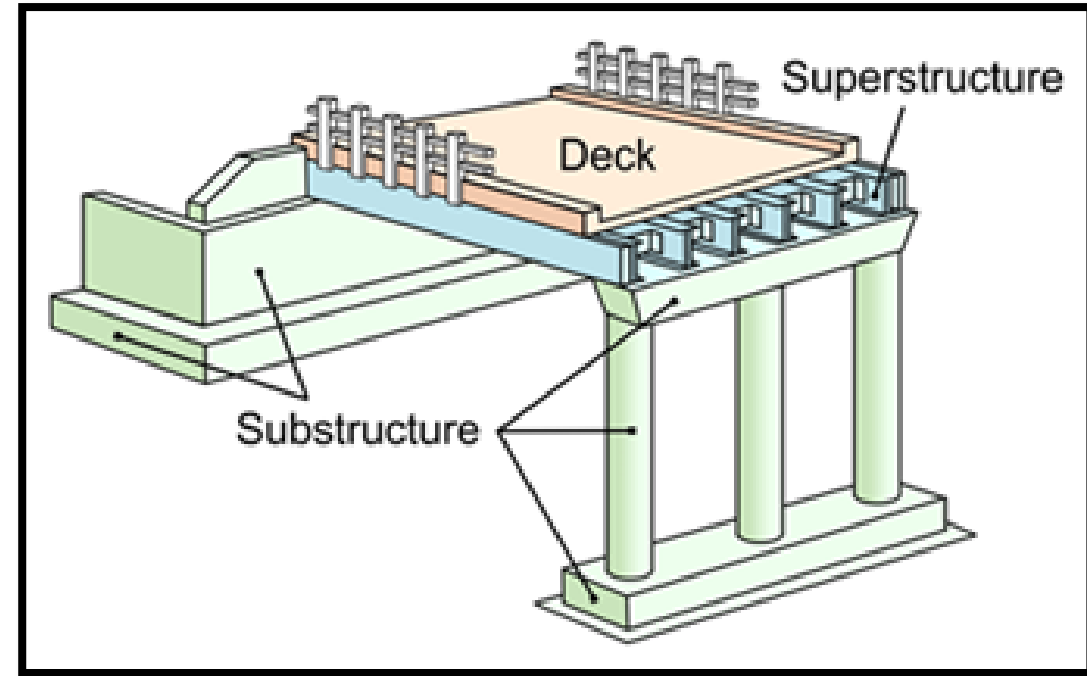
Toll Plaza, Scales - Overall in Satisfactory Condition

- AET Implemented at FSK, WPL, FMT, Perryville, and TJH Facilities
- Toll Plaza at BHT and Scales at WPL and TJH
- Some loose hardware, minor spalls and some steel corrosion

2023 Inspection Updates

Inspection Findings

- Bridge inspection reports determine condition rating data for the three major structural components of bridges:
 - Deck
 - Superstructure
 - Substructure
- The ratings determine if each component is in Excellent, Very Good, Good, Satisfactory, Fair or Poor Condition.
- These ratings are used in asset management and identification of projects.

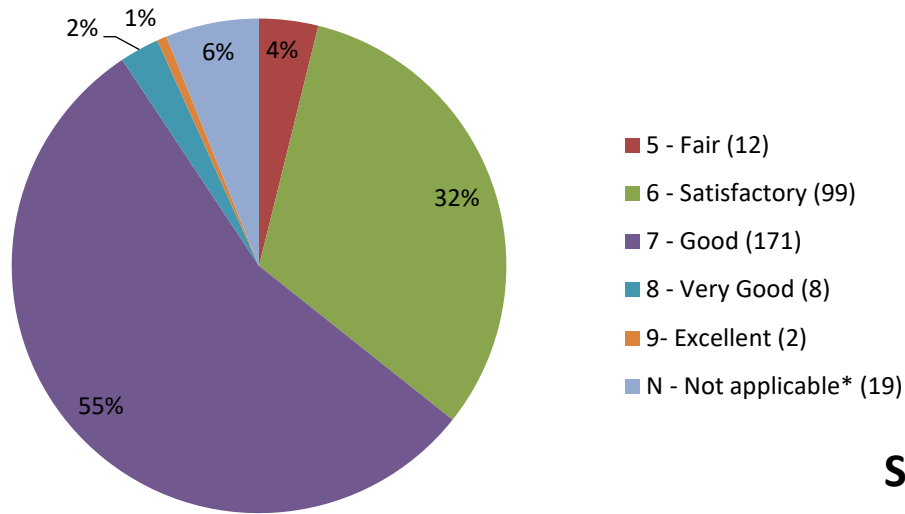


*Figure: Components of a Steel Bridge
(SSSBA, 2020)*

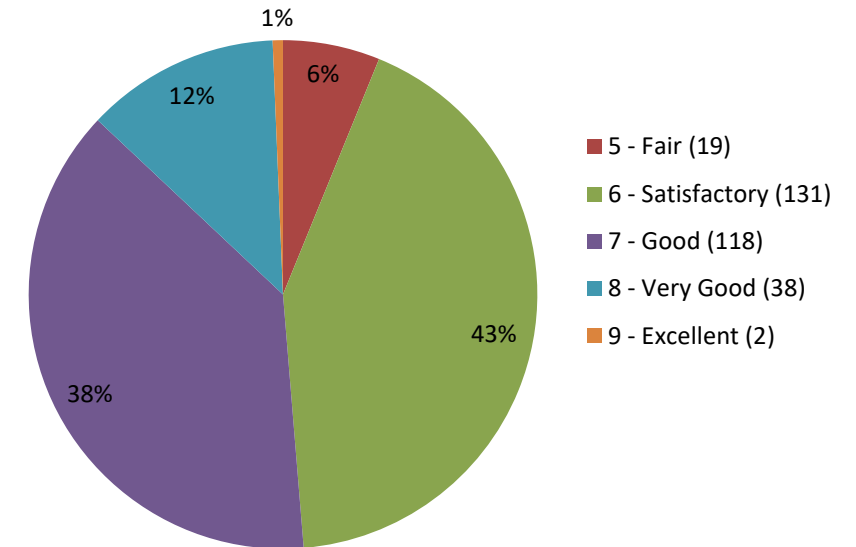
2023 Inspection Updates

Condition Ratings

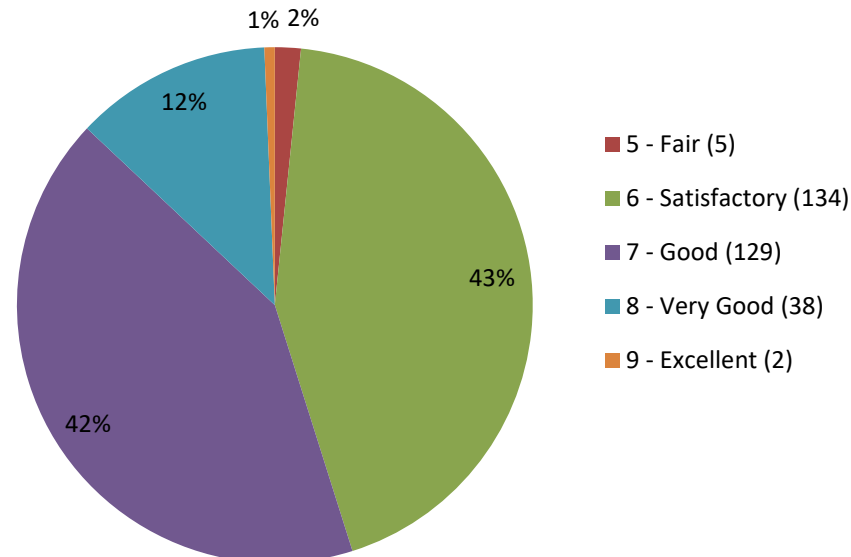
Deck Condition



Superstructure Condition



Substructure Condition



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**N applies to culverts who do not have a rating for deck, superstructure, or substructure*

Questions



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TAB 4

VERBAL

TAB 5

CLOSED SESSION

TAB 6

CLOSED SESSION

TAB 7

CLOSED SESSION

TAB 8

CLOSED SESSION