LEADERSHIP UPDATE

MITA Annual Conference

January 18, 2024

TODAY'S SPEAKERS

Director Bradley Wieferich, P.E.

Chief Administrative Officer Laura Mester, CPA

Chief Operations Officer Gregg Brunner, P.E.

Chief Culture, Equity, and Inclusion Officer Terri Slaughter





Michigan Highway Construction Cost Index (MHCCI) Comparison with Peer States & National Highway Index 2010-2023



*2023 NHCCI calculations based on Qtr. 1 & 2 data only (calendar year).



Rehab & Reconstruct



Combined Projects Lane Miles





2024 Construction Projects

Trunkline Only

*This information represents the total number of projects and dollars scheduled to be let in each month.

Therefore, the sum of values will not directly correlate to program year budgets, and this information is always subject to change.

Reporting Date 18-Dec-2023 for 07-01-23 to 06-30-24 **Construction Costs** Letting Month **Projects*** (\$ Millions)* July, 2023 22 \$113.10 August, 2023 \$235.78 24 September, 2023 26 \$73.00 October, 2023 30 \$154.16 November, 2023 26 \$370.68 December, 2023 58 \$380.89 January, 2024 20 \$150.97 February, 2024 17 \$74.22 March, 2024 22 \$161.72 April, 2024 10 \$24.23 May, 2024 11 \$9.62 June, 2024 \$8.50 4 Total 270 \$1,756.87



2025 Construction Projects

Trunkline Only

*This information represents the total number of projects and dollars scheduled to be let in each month.

Therefore, the sum of values will not directly correlate to program year budgets, and this information is always subject to change.

Reporting Date 18-Dec-2023 for 07-01-24 to 06-30-25 **Construction Costs** Letting Month **Projects*** (\$ Millions)* July, 2024 10 \$52.92 August, 2024 \$211.72 41 September, 2024 29 \$135.75 October, 2024 38 \$401.45 November, 2024 43 \$855.96 December, 2024 65 \$411.73 January, 2025 21 \$25.12 February, 2025 18 \$352.10 March, 2025 14 \$66.99 April, 2025 9 \$10.04 May, 2025 \$1.41 2 June, 2025 2 \$0.25 Total 292 \$2,525.45



Quantity Values

ltem	2024*	2025*
HMA (Tons)	1,692,495	1,987,317
Concrete (SYDs)	1,070,139	2,758,044
\$ of Bridge Work (Millions)	381,854,453	351,207,656
Aggregate (Tons)	8,912,524	6,519,385
Aggregate (SYDs)	22,217	47,780
Aggregate (CYDs)	154,386	189,182
Subbase (CYDs)	1,853,721	1,744,218

This information is draft and may change as the program is developed. *2024 & 2025 amounts are programmed values to date. The 2024 year encompasses data from July 2023 to June 2024 and the 2025 year encompasses data from July 2024 to June 2025 to align with construction year emphasis.



Laura Mester, CPA Chief Administrative Officer

Five-Year Transportation Program

Webpage Link https://www.michigan.gov/mdot/programs/ planning/five-year-transportation-program





Five-Year Transportation Program (5YTP) 2024-2028

FY 2024-2028 MDOT Multimodal Transportation Program \$15.86 Billion (in millions)

Highway Program, \$11,150

Public Transportation Program, \$3,726

> Aeronautics Program, \$989.05



Five-Year Transportation Program (5YTP) 2024-2028

Estimated Highway Program Revenue for 2024-2028 After Pre-Capital Uses \$10.2 billion



EXAMPLE Transportation

Five-Year Transportation Program (5YTP) 2024-2028

FY 2024-2028 MDOT Highway Program (in millions) \$11.15 Billion Total

Program	FY 2024	Five-Year Total	Annual Avg.
Repair and Rebuild Roads*	\$1,577	\$5,192	\$1,038
Repair and Rebuild Bridges**	\$558	\$1,963	\$393
Routine Maintenance	\$476	\$2,499	\$500
Safety and System Operations	\$239	\$949	\$190
Additional State and Federally Funded Programs	\$111	\$547	\$109
Total Five-Year Trunkline Program	\$2,961	\$11,150	\$2,230

*Including Trunkline Modernization

**Includes \$40 million in FY24 and \$600 million total from FY24 to 2028 for ongoing Blue Water Bridge (BWB) Plaza work accounted for in previous years.



FY 2024 Budget

Program Description	FY 2024 Amount
Road and Bridge Programs **	\$ 3,903,573,600.00
Modal Programs	\$ 706,132,400.00
Trunkline Programs	\$ 510,661,100.00
Highway Maintenance	\$ 466,088,700.00
Other Capital Outlay	\$ 289,354,000.00
Debt Service	\$ 343,740,100.00
One Time Funding	\$ 407,000,000.00
Gross Appropriations	\$ 6,219,549,900.00

**This line item includes Act 51 Distribution payments



Draft Five-Year Transportation Program (5YTP) 2024-2028

Highway Program \$2,961M Public Transportation Program \$764M

Aeronautics Program \$257.05M Repair and Rebuild Roads, \$1,317 Trunkline Modernization, \$260

> Repair and Rebuild Bridges**, \$558

Routine Maintenance, \$476

Other State and Federally-Funded Programs, \$111

System Safety, Management and Operations*, \$239



Rebuilding Michigan Program Status

Authorized - \$3.5 Billion

Issued @ Par - \$2.8 Billion

Cash Proceeds from Issuance - \$3.3 Billion

Obligated for Construction - \$3.0 Billion

7 Projects remaining to be awarded in 2024 and 2025





Gregg Brunner, P.E. *Chief Operations Officer*

Ryan Mitchell

Office of Major Projects Administrator

- For the past 13 years, Ryan has focused solely on developing and delivering successful alternative delivery projects and programs across the United States, many of them major projects, totaling more than \$500 million.
- Ryan led MDOT's Innovative Contracting Unit, overseeing project identification, selection, development, procurement, implementation, and performance monitoring on all MDOT alternative delivery projects.
- Ryan chairs MDOT's Innovative Contracting Committee and serves as a voting member of MDOT's Engineering Operations Committee.



Jason Gutting

Bureau Director of Field Services

- Gutting has served as the engineer of Construction Field Services since February 2016 and brings more than 24 years of experience and leadership with the State of Michigan to his new role.
- Gutting has a Bachelor of Science in civil engineering from Michigan State University and is a licensed professional engineer with the state of Michigan.



Lindsey Renner Construction Field Services Division Administrator

- Lindsey brings with her more than 18 years of experience and leadership from her time at MDOT and the consultant industry, previously serving as the Construction Operations engineer and Field Operations engineer prior to that.
- Lindsey possesses a Bachelor of Science in civil engineering from Michigan State University. She is a licensed professional engineer with the state of Michigan.



Jason Bodell ITS & Signals Program Office Engineering Manager

 Jason previously held the role of TSMO Maintenance Unit Engineer. Prior to coming to TSMO - Maintenance, Jason held the position of Statewide Transportation Operations Center (STOC) Engineer. Additionally, Jason has held the roles of Gaylord TSC Traffic & Safety Engineer, and Gaylord TSC Design Engineer.

 Jason possesses a Bachelor of Science in Civil Engineering from U of M and is a licensed professional engineer with the states of Michigan and Hawaii.



What is Integrated Program Management?

Project Controls expertise for effective program and project delivery and management.

<u>Project Controls</u> is data gathering, data management and analytical processes used to predict, understand and constructively influence the time and cost outcomes of a project and/or program;



Communication of that information and data to assist effective management and more informed decision making.



Material Demand Example for HMA (tons)



OK, but what does this really mean?



Setting Our Program AND Projects Up For Success...in Development, Design, and **CONSTRUCTION** Mitigate surprises as much as possible, **ADAPT** to new information and **EXTERNAL FACTORS**



IPM Program Planner

(still in development)

- Forecast future material, spending, labor demand based off historical averages
- Scenario planning
- Model impacts of shifted projects
- Allow for more insight to help "balance" lettings and overall program







Construction Scheduling

Continue to develop tools, provide guidance, and perform services to assist in the determination and development of feasible and reasonable construction schedules (Progress Clauses)

(4)

- Advanced schedule discussions in Development stages
- Long lead item considerations
- Production Rate evaluations



Safety Updates



Work Zone Safety Task Force

New Focus of Task Force

- Focus on a few key topics
 - New Positive Protection Team
 - Work Zone Enforcement/Presence
 - Implement New Technology
- Continued use of Special Provisions
 - Work Zone Safety Contingency Fund
 - Work Zone Collaboration

WORKZONE SAFETY TASK FORCE



Work Zone Safety Task Force Members

Trevor Block Chris Brookes Gregg Brunner Deven Rau Aaron Johnson Mike DeFinis Mike Malloure Rob Coppersmith Ryan O'Donnell Kim Zimmer Jason Gutting Justin Peyerk

WORK ZONE

Governor Signs Freeway Barrier Requirements Into Law

Michigan Public Act 164 of 2023

• If a freeway is partially closed at night, this requires barrier to be used between workers and traffic.

• Not required if less than three days for an emergency repair, utility crossing, maintenance, or other short-duration operation.

 Allows MDOT to exercise engineering judgement for safety of road users and workers





Governor Signs Freeway Barrier Requirements Into Law

Michigan Public Act 164 of 2023

- Updating Work Zone Safety and Mobility Manual and Work Zone Decision Tree
- Final Language will go to EOC for approval

After EOC approval, additional updates to the following:

- Maintenance of Traffic Typicals
- Special Provision for Maintaining Traffic Boilerplate
- Supplemental Guidance for definitions of sunrise and sunset





Automated Work Zone Enforcement

House Bill 4132

- Vehicle Code Revisions
- Defines Automated Speed Enforcement System
- Requires Posted Signage
- Locations (MSP and MDOT Coordination)

Violations

- First offense: Written Warning.
- Second offense: \$150 fine
- Third or subsequent offense: \$300 fine





Terri Slaughter

Chief Culture, Equity, and Inclusion Officer

FY23 Total DBE Dollars by Ethnicity/Gender \$176,165,800.31



CANDOT Michigan Department of Transportation

DBE Goal Attainment

MDOT's DBE goal for FY2023-FY2025 is 9.50%. FY23 goal attainment was 7.67%, leaving a participation shortfall of 1.83%

		Race Conscious	Race Neutral
	Goal Set	6.90%	2.90%
	Goal Attained	5.22%	2.45%
	Shortfall	1.38%	.045%
MDO	Γ		

DBE Goal Corrective Action Plan Highlights

Factors contributing the shortfall:

- Major Projects/Design Build Projects with large financial disincentives
- Increase in the number of Good Faith Effort (GFE) received.
- Bond Funds which cannot count towards DBE participation

MDOT Remediation Efforts include:

- Updated DBE goal setting algorithm now includes ALL DBEs in project work categories
- Increases in Office of Business Development staff to provide a greater presence within the regions
- Revised GFE process requiring information from all bidders within 5 days
- Creation of a DBE/Small Business Lending Program
- Creation of a Small Business Incubator program, which will serve as small businesses development program to grow the capacity of Michigan based DBEs and small businesses through training and construction mentor protégé opportunities.



Faith Effort Process Changes

- ALL bidders must provide their GFE information within 5 days of the bid letting.
- DBEs must sign "Commitment Confirmation for DBE Subcontractors" forms for ALL prime bidders within 5 days of the bid letting.
- ➢ GFEs are either determined sufficient or insufficient.
- MDOT can no longer contact the prime vendor other than to clarify possible errors or missing information.
- The GFE Reconsideration Committee will not consider information or documentation that was not included in the original GFE submittal.
- Post-Award GFEs must now be submitted within 7 calendar days of the prime vendor being made aware of their inability to meet the DBE participation goal.



Good Faith Effort Tools for Success

- ➤ Early documented solicitation of DBEs.
- Clearly identify which work categories you are soliciting DBEs
- Solicit DBEs with work classifications required for the project
- Consider subcontracting work that could be self-preformed
- Request subcontractors to solicit and use DBEs
- Providing concise apples-to-apples comparisons between bidders
- Clear communication about the work that is available for subcontracting on each specific project.
- Documentation of communications with non-DBE subcontractors regarding efforts to include DBEs in their work.
- > Consideration of quotes that extends beyond price alone.



Transportation Workforce Challenges



FACT

37.5 million workers will retire in the next decade, yet only 21 million workers will enter the workforce to replace them.

Source: Michigan Works!



Eligibility to retire at MDOT



2018 - 40% of MDOT's workforce was eligible to retire in the next 5 years 2021 - 31% of MDOT's workforce is eligible to retire in the next 5 years



Source: MDOT OHR

Additional Examples Difficult to Fill Positions

- Land surveyors
- Mid-level engineers
- Bridge workers
- Steeplejacks
- Location-based challenges



Metrics Illustrating Workforce Challenges

MDOT & MI Industry Needs

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Area	Occupation Code & Title	Total Annual Openings*	Degrees**	Gap
Michigan	171022 - Surveyors	100	15	85
Michigan	172051 - Civil Engineers	520	343	177
Michigan	173022 - Civil Engineering Technicians	140	49	91
	*Bureau of Labor Market Information - 2022 Q2 - 2023 Q2 Short Term Projections		**Center for Education Performance Data 21-22 School Year, "Degrees" for Civil Engineers represents both Civil and Environmental Engineering majors	

Questions to Consider

- How can we attract younger generations to our industry?
- How can we attract diverse populations to our industry?
- How can we create more inclusive work environments?
- What additional investment can we make promoting our industry to elementary, middle and high school students?
- How can we enhance on the job training and create more pathways to our industry?
- How can we partner even more as an industry to address workforce challenges?











FHWA Partnership



Our roads. **Your future.**

Start your career in highway construction today. **fliwa.dot.gov/RoadsToYourFuture**
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QUESTIONS?