

MDOT ACEC Partnering Workshop
February 3, 2022
Lansing Center

TENTATIVE BREAKOUT SESSIONS

MDOT Local Agency Programs

Learn about common challenges on local agency projects, how you can avoid them, and what's new and changing in MDOT's Local Agency Program.

Presenters:

Tracie Leix (MDOT)

Mark Loch (OHM Advisors)

The State of Safety & Real Safety in a Virtual World

Learn where the State of Michigan is at with this State of Safety. The update of the Strategic Highway Safety Plan and the HSIP Implementation Plan will be presented along with where we stand to date crash wise and how this compares to the state's Safety Targets. Also, hear what initiatives are being taken. Challenges and lessons learned from conducting Road Safety Audits in a virtual setting will be discussed. What new technologies were used and how they can be implemented into future RSA's whether virtual or in person.

Presenters:

Mark Bott (MDOT)

Zack Bratschi (MDOT)

Tom Smerdon (MDOT)

Lauren Warren (Cincar Consulting Group)

Andrew Ceifetz (WSP)

Navigating Work Zone Safety and Mobility

Work Zone specialists will provide updates on work zone special provisions, technologies, typicals, pavement markings, Work Zone Safety and Mobility Manual, and other engaging topics in the world of work zone administration.

Presenters:

Chuck Bergmann, Chris Brookes (MDOT)

Brian Sarkella (ROWE)

Bridge Model as Legal Document – MDOT's Path to Digital Delivery

This presentation will cover the status of this industry leading pilot and ongoing industrywide stakeholder engagement initiatives for a contractual model delivery for the reconstruction of twin bridges, on I-696, over the Rouge River, in Southfield, Michigan. All project information will be accessed through a mix of 3D and 2D models, links to standards and specifications, model attribution and saved views.

Presenters:

Marcia Yockey (MDOT)

Cathy Cassar, Daniel Jensen, Parker Thomson (Michael Baker)

MDOT Real Estate

Learn about technical aspect updates of Real Estate and Right of Way maps. Topics include transition to Right of Way Parcel Overlay (ROWPO) from Marked Final Right of Way (MFROW) plans and an update on a research project to convert ROW maps to a GIS format.

Presenters:

Matt Fitch (MDOT)

Tim Weir (DLZ)

All Things Bridge

Update of bridge design and construction policy and lessons learned from the 2021 construction season.

Presenters:

Brad Wagner, Rick Liptak (MDOT)

Michigan Transportation Program Portal

This session highlights MDOT's project to create The Michigan Transportation Program Portal (MTPP). The MTPP is the new home for the 5-Year Transportation Program, Rebuilding Michigan Program, and the State Transportation Improvement Program datasets made available through interactive maps that allow for public viewing and comment. Join us and learn how MDOT is using GIS tools and partnerships to increase public involvement and transparency.

Presenters:

Kyle Nelson, Joe Thick (MDOT)

Diversity, Equity, & Inclusion Internally and Externally on Projects

This session will highlight what MDOT is doing and also share what other MPOs, DOTs, and transit agencies are doing in the DEI space regarding internal and external elements. Internally talk about talent management, as well as program and policies for project selections. Externally address community impacts, communications, and project selection criteria regarding equity.

Presenters:

Lisa Thompson (MDOT)

Nicole Bennett, Adiele Nwankwo (Cincar Consulting Group)

Ancillary Structures Asset Management Program

Overview of MDOT's new Statewide Ancillary Structures Asset Management Program including MDOT's approach to a Program Manager Consultant (PMC) team to develop and manage the Program. The Program will provide connectivity to MDOT's existing systems and results in the consistent management of the various Ancillary Structures owned by MDOT. This Program includes a total of 53,400 assets with 16 different asset types and is the first comprehensive program of its kind in the United States.

Presenters:

Mike Halloran, Michelle O'Neill (MDOT)

Victor Judnic, Mike Lodes (HNTB)

I-375 Improvement Project - Environmental Assessment

The I-375 Improvement Project will reconnect downtown Detroit and adjacent neighborhoods, including Areas of Persistent Poverty (APP), by removing a 55-year-old limited-access, depressed, urban freeway and restoring access to nearby jobs and services. This freeway is at the end of its lifecycle. The Project will replace the freeway with an at-grade boulevard and also reconfigure I-375 at the existing I-75 freeway to improve safety and operations from Mack Avenue to John R Street.

Presenters:

Margaret Barondess, Jon Loree (MDOT)

Sarah Binkowski, Tony Migaldi (HNTB)

Detroit RiverFront Transformation

The Detroit Riverwalk was recently voted the #1 riverwalk in America in a *USA Today* competition. Mannik & Smith led a team of consultants (over a 10-year period) with the study and design of some of the most prominent riverfront venues – extending over 6 miles, from Gabriel Richard Park westward to the Gordie Howe International Crossing. The Detroit Riverfront Conservancy, MDOT and the City of Detroit all served as clients on the various contracts.

Presenters:

Greg Mack, Sean Kelley (Mannik & Smith Group)

Stephen White (Kahn)

MDOT/Consultant Partnerships in Bridge Scoping for Asset Preservation

The bridge preservation program relies on collaborative efforts of inspectors, designers, contractors, and maintenance crews, starting with accurate data collection and detailed scoping reports. This presentation will focus on the importance of bridge scoping and how this information is used to fine-tune condition states, preserve assets, minimize costs and redundant inspections, and manage a bridge program.

Presenters:

Paul Schiefer, Adam Walsh (MDOT)

Corey Rogers, Jason Pickel (RS&H)

MDOT Central Signal Control System (CSCS) Deployment

MDOT's CSCS deployment is the first step in building a strong foundation for innovative traffic signal technologies that will make Michigan's roadways safer, more reliable, and less congested. This session will cover: (1) the procurement and deployment of MDOT's CSCS Phase 1 project and (2) the successful BUILD grant and planned Phase 2 deployment to the remaining MDOT traffic signals statewide. This technology will enable mobility benefits for residents, businesses, and travelers across the state.

Presenters:

Nathan Bouvy (MDOT)

Jeff Feeney (HNTB)

Innovate Mound

Macomb County Department of Roads was awarded \$97 million in INFRA Grant funds for the reconstruction of Mound Road from I-696 to M-59. Coordination with numerous agencies including FHWA, MDOT LAP, MDOT Innovative Contracting, Macomb County Department of Roads, the Cities of Sterling Heights and Warren was necessary to develop the project. To meet the accelerated project schedule numerous tasks were expedited and completed concurrently including scoping, planning activities and development of Design-Build contract documents.

Presenters:

Jon Stratz (MDOT)

Steve Griffith (HNTB)

MDOT Southwest Weather Responsive Variable Speed Advisory (VSA) System

I-94 is a corridor of high significance with a history of winter weather impacts. A weather responsive VSA system was deployed to combat these adverse weather events, providing recommended speeds and traveler information based on near real-time roadway, traffic, and weather condition data. Its main purpose is to improve driver expectations and reduce crashes during adverse weather events. The system will be utilized year-round to provide non-weather-related messaging through its full-color dynamic message signs (DMS).

Presenters:

Kerry DenBraber (MDOT)

Mike Wroblewski (HNTB)

Advancing Bridge Construction

A presentation on precast concrete components with an emphasis on constructability in design and how technology can dramatically shorten construction schedules. The presentation covers Precast Concrete, ABC Prefabricated Bridge Elements and Systems (PBES), and Spliced, Post Tensioned, Precast Girder Bridges. The presentation includes photos and details from a variety of complicated and unique projects.

Presenters:

MDOT TBD

Laura Rampersad, Gregg Reese (Modjeski & Masters)

Virtual Public Involvement: Guidebook Creation

MDOT has been able to expand virtual public involvement (VPI) knowledge to increase project participation across the state utilizing STIC grant funding. Through a partnership with the City of Ann Arbor and FHWA, MDOT assessed the benefits and barriers of using VPI and developed a best practices guide. VPI is a new and innovative way to engage with stakeholders and is part of the State of Michigan's Every Day Counts 5 & 6 initiatives.

Presenters:

Monica Monsma, Kimberly Zimmer (MDOT)

Nathan Ford, Kelly Sweeny (HNTB)

MDOT CAV Strategic Plan

The MDOT Intelligent Transportation Systems (ITS) Program Office has recently completed its Connected and Automated Vehicle (CAV) Strategic Plan to help the department prepare for CAV

technology. This plan is intended to encourage thinking about implications, challenges, gaps, and opportunities of CAV, while reflecting on what has already been done in Michigan and defining a path forward for technology preparedness and implementation. This presentation will discuss both the strategic planning process and the resulting recommendations.

Presenters:

Elise Feldpausch (MDOT)

Katie McLaughlin, Scott Shogan (WSP)

Closing a Bridge - difficult decisions during inspection and construction

National perspective - fire damage of the Brent Spence bridge to a fractured tie girder on the Henry De Soto bridge, immediate actions taken to ensure safety, and the engineering feats required to rehabilitate them. Local perspective - decisions to close bridges due to in-service or construction damage, MDOT's policy on Authority to Close Bridges.

Presenters:

Matthew Chynoweth (MDOT)

Aaron Stover (Michael Baker)

I-69 Partnering for Success

Communication amongst decision makers has allowed rapid design submittal processing and kept construction on schedule by openly discussing concerns. Each side brings ideas to resolve issues and focus on the ultimate goal of completing a safe high quality transportation system. The presentation will focus on communication between team members throughout the project, sharing examples of partnership during each stage.

Presenters:

Corey Hackworth, Rick Thompson (MDOT)

Jeremy Curtis (Michael Baker)

Michigan Avenue PEL

MDOT recently completed a Planning and Environment Linkages (PEL) study along Michigan Avenue in the City of Detroit, aimed at creating a safe and accessible corridor through the city's historic Corktown neighborhood. This presentation will summarize how our team worked with the community to balance the desire to transform Michigan Avenue into a testbed for emerging technology with the need to preserve its cultural heritage.

Presenters:

Jon Loree (MDOT)

Daniel Beard (WSP)

MM2045 Key Findings and Implementation

MM2045 is the first fully integrated statewide long-range transportation plan in the country. MDOT took steps to make the plan a true "state of Michigan" plan focused on all Michigan

transportation infrastructure. More than 600 public agencies are responsible for Michigan's roads and bridges, with many entities providing infrastructure for transit, rail, ports, aviation, and active transportation services. What were the key findings and outcomes, and how will the plan be used moving forward?

Presenters:

Brad Sharlow (MDOT)

Todd Davis (WSP)

MDOT/ACEC Contracts Committee and Mentor-Protégé Program Updates

Members of the MDOT/ACEC Contracts Committee will share and provide updates on the topics, issues, and resolutions discussed during our monthly meetings over the past year.

Presenters:

Patrick McCarthy, Carol Rademacher, Lisa Thompson (MDOT)

Matt Stacey (Wade Trim)

Matt Wendling (WSP)

Revisited and New MDOT Geotechnical Tools

Precast concrete piles are being used at the Gordie Howe International Bridge for numerous bridges. Precast concrete piles have been used in the past in Michigan, but not recently. Some of the design and construction challenges will be presented. In addition, a new light weight fill produced from recycled glass, called foamed glass aggregate, has been developed and was recently used on a MDOT project to solve a unique issue.

Presenters:

Anthony Pietrangelo, Joel Tichenor (MDOT)

Tyler Dawson, Ph.D. (NTH)

MDOT/ACEC Survey Task Force

This session will be an overview of recent topics discussed at the MDOT/ACEC Survey Task Force including procedural changes, the new UAS test range and roles of surveyors in construction.

Presenters:

Brian Fish (MDOT)

Tim Platz (Fishbeck)

Digital Delivery

MDOT along with other DOTs are working towards Digital Delivery. This session will present the future of ProjectPDF, Level of Development and Model Maturity. With a Bridge model as contract being let in August 2022 there will be a search for a good road model as contract pilot project.

Presenters:

Luke Arnold, John Wilkerson (MDOT)

Consultant TBD