



Michigan  
Transportation Asset  
Management Council

**Transportation Asset Management Council**  
**Bridge Committee Meeting Agenda**  
**Thursday, April 25, 2019 2:00 PM**  
**Aeronautics Building- 2nd Floor Commission Room**  
**2700 Port Lansing Road**  
**Lansing, Michigan**

Meeting Telephone Conference Line: 1-877-336-1828 Access Code: 8553654#

- 1. Welcome - Call to Order – Introduction**
- 2. Public Comments on Non-Agenda Items**
- 3. Additions or Deletions of Agenda Items**
- 4. Consent Agenda (*Action Item*)**
  - 4.1. Approval of the 3-21-19 Meeting Minutes (*Attachment 1*)
- 5. Update Items**
  - 5.1. 2018 Michigan Roads and Bridges Annual Report - *Jennett*
    - 5.1.1. Bridge Condition Reporting – *Curtis*
  - 5.2. Data Requests - *Belknap*
    - 5.2.1.1. Southeast Michigan Council of Governments (*Attachment 2*)
    - 5.2.1.2. Detroit Free Press
  - 5.3. Work Program: Target Costs/Priorities by April – *Belknap* (*Attachment 3*)
  - 5.4. TAMC Culvert Pilot Project – *Belknap* (*Attachment 4*)
- 6. Public Comments**
- 7. Member Comments**
- 8. Adjournment:**

*Next meeting is scheduled for July 25, 2019 @ 2:00 PM Aeronautics Building  
2nd Floor Commission Room, 2700 Port Lansing Road, Lansing, Michigan*

**Committee Members:** Chair: Rebecca Curtis, MDOT - Vice Chair: Keith Cooper, MDOT  
Christopher Bolt, MAC - Al Halbeisen, ACEC - Wayne Harrall, CRA  
Brian Vilmont, Subject Matter Expert - Brad Wieferich, MDOT

MINUTES  
**TRANSPORTATION ASSET MANAGEMENT COUNCIL**  
**BRIDGE COMMITTEE MEETING**  
 March 21, 2019 at 2:00 p.m.  
 Aeronautics Building, 2nd Floor, Commission Conference Room  
 2700 Port Lansing Road  
 Lansing, Michigan

**\*\* Frequently Used Acronyms List attached.**

**Committee Member:**

Christopher Bolt, MAC  
 Rebecca Curtis, MDOT – Chair  
 Wayne Harrall, KCRC, via Telephone

Keith Cooper, MDOT – Vice-Chair  
 Al Halbeisen, OHM Advisors, via Telephone

**Support Staff:**

Niles Annelin, MDOT  
 Scott Bershing, MTU, via Telephone  
 Dave Jennett, MDOT  
 Bill McEntee, CRA, via Telephone

Roger Belknap, MDOT, via Telephone  
 Tim Colling, MTU, via Telephone  
 Polly Kent, MDOT  
 Gloria Strong, MDOT

**Members Absent:**

Brian Vilmont, Prein & Newhof  
 Brad Wieferich, MDOT

**Public Present:**

None

**1. Welcome - Call-To-Order - Introductions:**

The meeting was called-to-order at 2:05 p.m. Everyone was welcomed to the meeting.

**2. Public Comments on Non-Agenda Items:**

None

**3. Additions or Deletions of Agenda Items:**

R. Belknap reminded the committee of the TAMC Strategic Planning Session, being held June 5, 2019, at the Aeronautics Building. Support staff and all committees are putting together a prioritized list of tasks with cost estimates that will be discussed at the session. He is requesting that the Bridge Committee provide their prioritized list to him by the April 25, 2019 Bridge Committee meeting

**4. Consent Agenda (Action Item):**

**4.1. - Approval of the February 21, 2019 Meeting Minutes (Attachment 1)**

**Motion:** W. Harrall made a motion to approve the February 21, 2019 meeting minutes with the addition of under 5.3. The number of fair bridges should be going up and under 5.4.1. the addition of the measurements – 48 inches to less than 10 feet, and 10 feet to less than 20 feet; K. Cooper seconded the motion. The motion was approved by all members present with the amendments.

## **5. Update Items:**

### **5.1. - 2018 Michigan Roads and Bridges Annual Report Schedule**

#### **5.1.1. – Bridge Condition Reporting – R. Curtis (Attachment 2)**

R. Curtis went over draft bridge data documents and graphs that she created to be included in the annual report. A few minor changes were requested by the committee such as the removal of the reference of the Governor's dashboard and just reference the TAMC dashboard, and show the number of bridges (294 out of 10,000) that were actually worked on last year. R. Curtis will make those changes and resend the document to the committee for review and approval. Project reporting will be separate from the bridge reporting data.

#### **5.1.2. – 2018 Culvert Pilot Write-Up – R. Belknap**

MTU is working on the article for The Bridge Newsletter. The article will be on the 2018 Culvert Pilot Project. It was suggested that MTU use the 2018 Culvert Pilot Project Executive Summary.

A summarization of the 2018 TAMC Culvert Pilot Project was provided and reviewed to possibly be added to the annual report. R. Belknap is asking that the Bridge Committee review the summary and provide any suggestions to him to add to it. The committee would also like to have the map of participating agencies, the participating regions, locations of inventoried culverts, and how many culverts were accounted for during the pilot project added to the annual report. The committee also referenced that the original MTU 2018 Culvert Pilot Project Executive Summary could also be used as it already has great photos included and the map of agencies that participated in the pilot. The culvert rating by span and by depth could be added. They could show the 10% of culverts that are over 48 inches by county and how much of the asset value that represents.

### **5.2. – TAMC Culvert Pilot Project**

#### **5.2.1. – Continuing Culvert Data Collection Efforts into the Future – R. Belknap/T. Colling**

MTU is committed to do two years of Webinar Culvert Data Collection trainings. The Council needs to think about how to create a standardized plan for reporting of data and allow flexibility in data collection to move forward. It still needs to be worked out as to whether or not TAMC can make it mandatory for agencies to collect culvert data. The legislation simply says that TAMC can provide the tools for them to do their data collections, but it does not state that they must collect it. The agencies also do not get any additional funding to do the culvert data collection.

#### **5.2.2. – Culvert Data on TAMC Dashboards/Interactive Map – R. Belknap (Attachment 4)**

CSS has began creating the culvert data dashboards and interactive map. They will get the data that the Department of Natural Resources has collected on culverts and add it to the TAMC inventory. There is a plan to hold a meeting with CSS in the near future to see if they can accommodate all of the culvert data that has been collected. A sample of what will be provided in the dashboards was provided to the committee. The four categories of sizes will be added. There will be minor changes to the color system and verbiage than what is currently shown in the sample. They will not be working on material types statewide except for the 43 agencies that participated. They will only show the 43

agencies that participated in the drop-down list. Conversations are going on between Roadsoft people and CSS. TAMC needs to decide how to get all the culvert data inventories, such as those from MDOT, Oakland, Genesee, and other agencies, cities and counties, into the TAMC culvert inventory.

**6. Public Comments:**

P. Kent added a column on the revised TAMC Work Program that references the tasks on the work program document that is on the website. She has also listed some of the tasks that are different from the last work program so that the Council can see what has changed and added proposed items that have come up during the year but have not been budgeted for.

**7. Member Comments:**

R. Curtis provided the new live dashboards website of all the bridge conditions in the state in the Bridge database. That address is: [Michigan.gov/bridgeconditions](http://Michigan.gov/bridgeconditions)

C. Bolt inquired if during the culvert pilot project, were hydraulics referenced? Hydraulics were not looked at during the pilot and does not fit into any of the ratings condition assessments. He suggested that the committee look at in the future, noting any problems, such as flooding issues, and have the agencies do risk assessments. They can provide any information that may be a future problem or issue with a culvert.

**8. Adjournment:**

A motion was made by K. Cooper to adjourn the meeting; W. Harrall seconded the motion. The motion was approved by all members present. The meeting adjourned at 3:38 p.m. The next meeting will be held April 25, 2019, at 2:00 p.m., MDOT Aeronautics Building, 2<sup>nd</sup> Floor Commission Conference Room, Lansing.

<b>TAMC FREQUENTLY USED ACRONYMS:</b>	
<b>AASHTO</b>	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
<b>ACE</b>	ADMINISTRATION, COMMUNICATION, AND EDUCATION (TAMC COMMITTEE)
<b>ACT-51</b>	PUBLIC ACT 51 OF 1951-DEFINITION: A CLASSIFICATION SYTEM DESIGNED TO DISTRIBUTE MICHIGAN’S ACT 51 FUNDS. A ROADWAY MUST BE CLASSIFIED ON THE ACT 51 LIST TO RECEIVE STATE MONEY.
<b>ADA</b>	ADULTS WITH DISABILITIES ACT
<b>ADARS</b>	ACT 51 DISTRIBUTION AND REPORTING SYSTEM
<b>BTP</b>	BUREAU OF TRANSPORTATION PLANNING (MDOT)
<b>CFM</b>	COUNCIL ON FUTURE MOBILITY
<b>CPM</b>	CAPITAL PREVENTATIVE MAINTENANCE
<b>CRA</b>	COUNTY ROAD ASSOCIATION (OF MICHIGAN)

<b>CSD</b>	CONTRACT SERVICES DIVISION (MDOT)
<b>CSS</b>	CENTER FOR SHARED SOLUTIONS
<b>DI</b>	DISTRESS INDEX
<b>ESC</b>	EXTENDED SERVICE LIFE
<b>FAST</b>	FIXING AMERICA'S SURFACE TRANSPORTATION ACT
<b>FHWA</b>	FEDERAL HIGHWAY ADMINISTRATION
<b>FOD</b>	FINANCIAL OPERATIONS DIVISION (MDOT)
<b>FY</b>	FISCAL YEAR
<b>GLS REGION V</b>	GENESEE-LAPEER-SHIAWASSEE REGION V PLANNING AND DEVELOPMENT COMMISSION
<b>GVMC</b>	GRAND VALLEY METRO COUNCIL
<b>HPMS</b>	HIGHWAY PERFORMANCE MONITORING SYSTEM
<b>IBR</b>	INVENTORY BASED RATING
<b>IRI</b>	INTERNATIONAL ROUGHNESS INDEX
<b>IRT</b>	INVESTMENT REPORTING TOOL
<b>KATS</b>	KALAMAZOO AREA TRANSPORTATION STUDY
<b>KCRC</b>	KENT COUNTY ROAD COMMISSION
<b>LDC</b>	LAPTOP DATA COLLECTORS
<b>LTAP</b>	LOCAL TECHNICAL ASSISTANCE PROGRAM
<b>MAC</b>	MICHIGAN ASSOCIATION OF COUNTIES
<b>MAP-21</b>	MOVING AHEAD FOR PROGRESS IN THE 21 <sup>ST</sup> CENTURY (ACT)
<b>MAR</b>	MICHIGAN ASSOCIATION OF REGIONS
<b>MDOT</b>	MICHIGAN DEPARTMENT OF TRANSPORTATION
<b>MDTMB</b>	MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
<b>MIC</b>	MICHIGAN INFRASTRUCTURE COMMISSION
<b>MITA</b>	MICHIGAN INFRASTRUCTURE AND TRANSPORTATION ASSOCIATION
<b>MML</b>	MICHIGAN MUNICIPAL LEAGUE
<b>MPO</b>	METROPOLITAN PLANNING ORGANIZATION

<b>MTA</b>	MICHIGAN TOWNSHIPS ASSOCIATION
<b>MTF</b>	MICHIGAN TRANSPORTATION FUNDS
<b>MTPA</b>	MICHIGAN TRANSPORTATION PLANNING ASSOCIATION
<b>MTU</b>	MICHIGAN TECHNOLOGICAL UNIVERSITY
<b>NBI</b>	NATIONAL BRIDGE INVENTORY
<b>NBIS</b>	NATIONAL BRIDGE INSPECTION STANDARDS
<b>NFA</b>	NON-FEDERAL AID
<b>NFC</b>	NATIONAL FUNCTIONAL CLASSIFICATION
<b>NHS</b>	NATIONAL HIGHWAY SYSTEM
<b>PASER</b>	PAVEMENT SURFACE EVALUATION AND RATING
<b>PNFA</b>	PAVED NON-FEDERAL AID
<b>PWA</b>	PUBLIC WORKS ASSOCIATION
<b>QA/QC</b>	QUALITY ASSURANCE/QUALITY CONTROL
<b>RBI</b>	ROAD BASED INVENTORY
<b>RCKC</b>	ROAD COMMISSION OF KALAMAZOO COUNTY
<b>ROW</b>	RIGHT-OF-WAY
<b>RPA</b>	REGIONAL PLANNING AGENCY
<b>RPO</b>	REGIONAL PLANNING ORGANIZATION
<b>SEMCOG</b>	SOUTHEAST MICHIGAN COUNCIL OF GOVERNMENTS
<b>STC</b>	STATE TRANSPORTATION COMMISSION
<b>STP</b>	STATE TRANSPORTATION PROGRAM
<b>TAMC</b>	TRANSPORTATION ASSET MANAGEMENT COUNCIL
<b>TAMCSD</b>	TRANSPORTATION ASSET MANAGEMENT COUNCIL SUPPORT DIVISION
<b>TAMP</b>	TRANSPORTATION ASSET MANAGEMENT PLAN
<b>TPM</b>	TRANSPORTATION PERFORMANCE MEASURES
<b>UWP</b>	UNIFIED WORK PROGRAM

S:/GLORIASTRONG/TAMC FREQUENTLY USED ACRONYMS.11.27.2018.GMS

## Belknap, Roger (MDOT)

---

**Subject:** FW: SEMCOG Request

**From:** Bruff, Tom <bruff@semcog.org>

**Sent:** Tuesday, March 26, 2019 1:25 PM

**To:** Belknap, Roger (MDOT) <BelknapR@michigan.gov>; Curtis, Rebecca (MDOT) <CurtisR4@michigan.gov>; William McEntee <billfacts@aol.com>

**Cc:** Annelin, Niles (MDOT) <AnnelinN@michigan.gov>; Karll, Kelly C <Karll@semcog.org>; Barlock, Rachael <barlock@semcog.org>; Hug, Ed <hug@semcog.org>; Ignasiak, Christina <ignasiak@semcog.org>

**Subject:** SEMCOG Request

I would like to request an annual snapshot of the statewide bridge database. Please let me know how best to proceed.

I have had several discussions with many of you regarding the bridge data. SEMCOG would like to display bridge information on our website similarly to what we do for pavement conditions, crash data, congestion, etc. This information may be represented in various ways, including: reports, tables, figures and maps (GIS).

What I know:

- Bridges are inspected on a regular basis and the bridge database is updated accordingly. This updated data is typically processed around the same time (in the beginning) each year.
- The TAMC dashboard is updated with this data annually. (summarized by geographic area)
  - There is also an interactive map but I am not sure if this is generated with the same set/snapshot of bridge data

Ultimately, I would like to use the same data snapshot that is used by TAMC and others so that we are all reporting out the same results.

As for the fields of data I am interested in – I would prefer a dataset/spreadsheet that consists of one record per bridge with all the data fields. I am assuming that the data fields available are the ones listed in the MSIA coding guide (is this correct?). Please make sure to include the item numbers and names (separate) as part of the dataset/spreadsheet.

I would like to receive this data snapshot annually going forward and if by chance there are prior snapshots please let me know what years exist – I may want to go back a few years (at least to 2015).

Please feel free to contact me if any clarification of my request is necessary.

*Tom*

J. Thomas Bruff, Manager  
 Plan & Policy Development  
 SEMCOG  
 1001 Woodward, Suite 1400  
 Detroit, Michigan 48226  
 (313)324-3340  
[bruff@semcog.org](mailto:bruff@semcog.org)  
 Visit: [www.semcog.org](http://www.semcog.org)



## DRAFT FOR DISCUSSION WORK PROGRAM

## ITEMS NOT CHARGED TO TAMC - sorted by frequency and work product

reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes
<b>PA 325 New Item</b>	AM Plans	AM Plans	No Charge	TAMC Support Staff	<b>Evaluate AM Plan submissions and make recommendations regarding compliance for agencies with &gt;100 miles</b>	Annually	X	X	X	Because of PA 325
Publications 1.a.i	Annual Report	Annual Report	No Charge	TAMC Support Staff	Compile and submit Annual Report to Legislature by May	Annually	X	X	X	
PA 325 addendum 6.a	Budget	Budget	No Charge	TAMC Support Staff	Develop annual budget; including changes to address PA 325 requirements	Annually	X	X	X	
<b>Proposed New Item</b>	Data Collection	Bridge data	No Charge	MDOT	<b>Provide data on bridge condition</b>	Annually	X	X	X	Broke out bridge separately because it's a different process
Public Outreach 3.a.i	Outreach	AM Plans	No Charge	TAMC Support Staff	Promote agencies with AM plans that are high performers	Annually	X	X	X	Recognized with awards; is that sufficient?
Publications 1.b.ii & iii	Outreach	Annual Report	No Charge	TAMC Support Staff	Get feedback from conference attendees regarding use of annual report	Annually	X	X	X	
Improved Communication 3.a.i - 3.a.iii	Outreach	Support TAMC Partner Agencies at Conferences	No Charge	TAMC Support Staff	Develop schedule of conferences and coordinate TAMC attendees	Annually	X	X	X	
Public Outreach 3.a.i.	Outreach	TAMC Awards	No Charge	TAMC Support Staff	Recognize outstanding agency performance with awards at spring conference	Annually	X	X	X	
Training & Education 3.a.ii	Training/ Education	Legislative Education	No Charge	TAMC	<b>TAMC members to find sponsors and coordinate announcement event with legislators for annual report</b>	Annually	X	X	X	reworded; this is not a function that can be performed by state employees
<b>Proposed New Item</b>	Training/ Education	Training	No Charge	TAMC Support Staff	<b>Coordinate TAMC attendees at IRT and PASER training</b>	Annually	X	X	X	Routinely need volunteers for UP training events
<b>PA 325 New Item</b>	Coordination	PA 325	No Charge	TAMC Support Staff	<b>Attend/monitor WAMC meetings</b>	Ongoing				
<b>PA 325 New Item</b>	Coordination	PA 325	No Charge	TAMC Support Staff	<b>Attend/monitor MIC meetings</b>	Ongoing				
PA 325 addendum 4.a	Coordination	PA 325	No Charge	?	Work with WAMC/MIC to develop coordinated approach to condition assessment	Ongoing				
PA 325 addendum 4.c	Coordination	PA 325	No Charge	?	Coordinate with WAMC/MIC on transparency and what needs to be shared	Ongoing				



reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes
Data Analysis/Resarch 1..a.ii; Project and Investment Reporting 4.a.i	Data Collection	Investment data	No Charge	TAMC Support Staff	Perform QC on IRT data & report on quality of information	Ongoing				
Project and Investment Reportingg 2.a.i - ii	Data Research or Analysis	Performance Measures	No Charge	TAMC Support Staff	Monitor IRT compliance; analyze and report monthly	Ongoing				
Publications 3.a.1. - b.ii.	Outreach	Newsletter "Bridge"	No Charge	MTU	<b>Provide 4 articles per year; develop schedule w/ milestones &amp; who is writing each article</b>	Ongoing				consolidated from previous work program
Public Outreach 1.a.1.	Outreach	Press Releases	No Charge	TAMC Support Staff	Publish press releases as appropriate; at a minimum for conferences, annual report, and award winners	Ongoing				
Publications 2.a.i.	Outreach	Website	No Charge	TAMC Support Staff	<b>Provide simple website updates as needed</b>	Ongoing				Split out to allow TAMC support staff to do the simple updates
Performance Measures 1.a.iv.	Performance Measures	AM Plans	No Charge	TAMC Support Staff	Report monthly on number of AM Plans received per PA 325	Ongoing				
Performance Measures 1.a.v.	Performance Measures	Budget	No Charge	TAMC Support Staff	Report on TAMC budget status monthly	Ongoing				
Performance Measures 1.a.ii.	Performance Measures	Data Collection	No Charge	TAMC Support Staff	Report on IRT compliance monthly	Ongoing				Removed ADARS from task
<b>Proposed New Item</b>	Performance Measures	Meetings	No Charge	TAMC Support Staff	<b>Meeting Preparation for TAMC and committee meetings each month</b>	Ongoing				Added for balance
Performance Measures 1.a.i.	Performance Measures	Performance Measures	No Charge	TAMC Support Staff	Implement Annual Work Program; report progress monthly	Ongoing				
Performance Measures 2.a.i	Performance Measures	Performance Measures	No Charge	TAMC Support Staff	<b>Identify and eliminate duplication of effort</b>	Ongoing				Reworded slightly
Performance Measures 1.a.iii.	Performance Measures	Road data	No Charge	TAMC Support Staff	Report on Road Data Collection progress Monthly	Ongoing				
Public Outreach 3.a.ii	Outreach	TAMC Awards	No Charge	TAMC Support Staff	Evaluate and update awards selection process	TBD One and Done				
PA 325 addendum 6.a	Budget	PA 325	No Charge	MDOT	Identify staff needed to comply with PA 325	TBD One and Done	X			Draft policy for submittal/review of AM plans being discussed by ACE

reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes	
<b>BUDGETED ITEMS - sorted by budget assignment and frequency</b>											
<b>FY 2020</b>											
<b>I. Data Collection &amp; Regional-Metro Planning AM Program</b>						<b>\$</b>	<b>1,116,400</b>				
<b>III. TAMC Central Data Agency (MCSS)</b>						<b>\$</b>	<b>380,000</b>				
<b>IV. TAMC Training &amp; Education (MTU) Calendar Year Z1</b>						<b>\$</b>	<b>220,000</b>				
<b>V. TAMC Activities (MTU) Z15/R1</b>						<b>\$</b>	<b>120,000</b>				
<b>VI. TAMC Expenses and Conferences</b>						<b>\$</b>	<b>20,000</b>				
<b>Total</b>						<b>\$</b>	<b>1,876,400</b>				
Project & Investment Reporting 1.a.iii	Training/Education	Investment data	Budgeted	CSS	<i>Provide IRT training</i>	Annually	X	X	X	Not explicit in the original work program	
Project & Investment Reporting 3.I	Data Collection	Investment data	Budgeted	CSS	<i>Update IRT Technology as needed</i>	Annually				Not explicit in the original work program	
<b>Proposed New Item</b>	Training/Education	Performance Measures	Budgeted	CSS	<i>Identify IRT attendees success/failure &amp; report results</i>	Annually	X	X	X	Modeled after PASER training recommendation	
Public Outreach 2.1.i. - 2.b.i.	Outreach	Dashboards	Budgeted	CSS	Update dashboards as needed to reflect updated data	Ongoing					
Public Outreach 2.1.ii	Outreach	Dashboards	Budgeted	CSS	Determine the need for additional dashboards due to PA 325	Ongoing					
Data Collection 5.a.i.	Data Collection	Framework	Budgeted	CSS	Ensure Framework Base Map is as current as possible by updating data sets and seeking input from raters and users	Ongoing				Big lift by CSS this year to overhaul Framework and data maintenance of layers - does this address this item?	
Publications 2.a.i (implied)	Outreach	Interactive Maps	Budgeted	CSS	Coordinate map updates with data updates	Ongoing					
Publications 2.a.i (implied)	Outreach	Interactive Maps	Budgeted	CSS	Continue to upgrade interactive maps	Ongoing					
Data Analysis/Resarch 2	Data Collection	Investment data	Budgeted	CSS	<i>Collect and store IRT data</i>	Ongoing				Not explicit in the work program, but a budgeted item	
Public Outreach 5.a.i	Outreach	Mobile Apps	Budgeted	CSS	Maintain mobile apps	Ongoing					
Data Analysis/Resarch 2	Data Collection	Road data	Budgeted	CSS	<i>Store road and bridge data</i>	Ongoing				Not explicit in the work program, but a budgeted item	

reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes
Publications 2.a.i.; Public Outreach 4.a.i.iii	Outreach	Website	Budgeted	CSS	<b>Provide the more complicated website updates as needed and maintain website</b>	Ongoing				Split out to allow TAMC support staff to do the simpler updates
<b>Proposed New Item</b>	Performance Measures		Budgeted	CSS	<b>Report quarterly on dashboard analytics</b>	ongoing				New item TAMC has requested
Publications 2.b.iv.	Performance Measures	Knowledge Transfer	Budgeted	CSS	Knowledge transfer for self-service maintenance	ongoing				
Data Analysis/Research 2.a.i - iii	Data Research or Analysis	Data Storage & Reports	Budgeted	CSS	Update requirements for data storage and reports working w/ stakeholders	TBD One and Done				
Data Storage/Research 2.a.iii	Data Research or Analysis	Data Storage & Reports	Budgeted	CSS	Make recommendations for optimal data storage and reporting	TBD One and Done				Data Committee assigned this high priority
Data Analysis/Research 1.a.i.	Data Research or Analysis	Data Storage & Reports	Budgeted	CSS	Integrate PASER & IRT	TBD One and Done				May need consultant for study on methodology
Data Collection 1.a.i (implied)	Data Collection	Road data	Budgeted	MDOT	Perform QC on PASER ratings and report results	Ongoing				
Training & Education 4.a.iii	Training/ Education	Training	Budgeted	MTU	<b>Provide training for development of agency AM plans, focusing on agencies with &gt; 100 miles</b>	Annually	X	X	X	Reworded in response to PA 325
Training & Education 2.a.i - iii	Training/ Education	Bi-Annual Conference	Budgeted	MTU	Identify conference attendees, success/failure & report results	Annually	X	X	X	
Training & Education 1.a.i - iii	Training/ Education	Performance Measures	Budgeted	MTU	Identify PASER/IBR training attendees, success/failure & report results	Annually	X	X	X	
Project & Investment Reporting 4.ii (implied)	Data Research or Analysis	Road data	Budgeted	MTU	<b>Update Average Project Cost data annually</b>	Annually	X	X	X	Not explicit regarding annual updates in work program
Training & Education 1.a.i - iii	Training/ Education	Road data	Budgeted	MTU	Provide PASER and IBR training	Annually	X	X	X	
Training & Education 5.a.i - iii	Training/ Education	Training	Budgeted	MTU	Identify any training gaps or informational tools needed	Annually	X	X	X	
Training & Education 4.a.ii	Training/ Education	Training	Budgeted	MTU	Update training as necessary	Ongoing				
Data Collection 6.a.ii	Data Research or Analysis	Road data	Budgeted	MTU	Maintain Markov model in working order	Ongoing				
Data Collection 6.a.i	Outreach	Road data	Budgeted	MTU	Promote use of Roadsoft by Act 51 agencies	Ongoing				

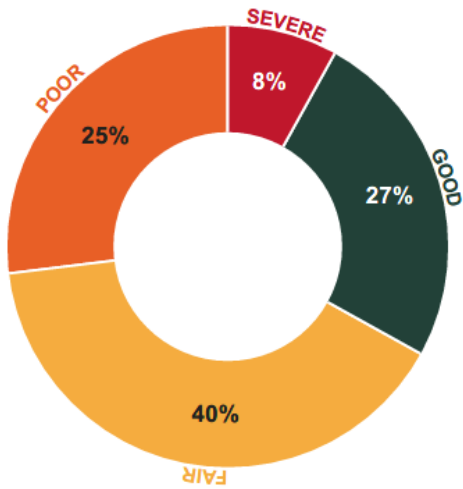
reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes
Training & Education 6.a.i	Training/ Education	Training	Budgeted	MTU	<i>Develop training on Coordination with Utilities</i>	TBD One and Done				This was a TBD in the previous work program, awaiting outcome of 21st CIC recommendations
<b>PA 325 Proposed New Item</b>	Data Collection	PA 325	Budgeted	MTU	<i>Data Governance and standards for signals</i>	TBD One and Done		X		per PA 325
PA 325 addendum 5.a	Data Collection	PA 325	Budgeted	MTU	Data Governance and standards for culverts	TBD One and Done	X			
<b>PA 325 Proposed New Item</b>	Performance Measures	PA 325	Budgeted	MTU	<i>Develop Culvert Measures of Success</i>	TBD One and Done	X			
PA 325 addendum 1.a	Training/ Education	PA 325	Budgeted	MTU	Revise Training Programs as needed to comply with PA 325	TBD One and Done				
PA 325 addendum 2.b	Outreach	Road data	Budgeted	MTU	Make asset deterioration rates available to the public	TBD One and Done				MTU reported on their study of pavement lifecycles - full report on TAMC website - does this meet the intent of making rates available to public?
Training & Education 4.a.i.	Training/ Education	Training	Budgeted	MTU	Develop training on the operational aspects of AM	TBD One and Done		X		
<b>Data Collection 4.a.i. (TBD)</b>	AM Plans	AM Plans	Budgeted	REGIONS	<i>Work with agencies with greater than 100 miles to develop AM plans</i>	Annually	X	X	X	per PA 325
Training & Education 3.a.i	Outreach	Legislative Education	Budgeted	REGIONS	Provide report on road and bridge conditions by legislative district	Annually	X	X	X	Most RPO/MPOs do an annual PASER report that includes this info; these reports are in UWP already but we don't call out legislative districts
Data Collection 1.a.i.	Data Collection	Road data	Budgeted	REGIONS	Collect PASER data on no less than 1/2 FA paved	Annually	X	X	X	
<b>Data Collection 4.a.i. (TBD)</b>	Data Collection	Road data	Budgeted	REGIONS	<i>Focus efforts to collect data from agencies with &gt; 100 miles in keeping with schedule for AM plan submissions</i>	Ongoing				Data Committee assigned this lower priority. But PA 325 requires it
Training & Education 2.a.i	Training/ Education	Bi-Annual Conference	Budgeted	TAMC Support Staff	Coordinate 2 educational conferences per year	Annually	X	X	X	
Improved Communication 2.a.i.	Data Collection	Road data	Budgeted	TAMC Support Staff	Provide monthly Regional Coordinator conference calls from April through December each year	Ongoing				

reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes
<b>PROPOSED ITEMS NOT YET BUDGETED OR ASSIGNED - sorted by work product</b>										
Improved Communication 2.a.iv	Annual Report	Annual Report			<i>Develop a plan to improve familiarity with TAMC annual report</i>	TBD One and Done				ACE gave this medium priority; Previous work program referred to "marketing plan" Still a necessity with the overhaul of the report format last year?
Project and Investment Reporting 1.suggested.ii	Data Research or Analysis	Bridge data			<i>Compare &amp; analyze Bridge condition and IRT planned bridge project data</i>	TBD One and Done				Data Committee assigned this high priority; Broke Bridge and pavement into separate work items
PA 325 Addendum 4.b	Coordination	Coordinate with WAMC/MIC			Define age of construction across assets	TBD One and Done				
Data Analysis/Research 3.a.i	Data Research or Analysis	Forecasting			<i>Develop condition forecasting tool that uses IRT planned project data</i>	TBD One and Done				Data Committee assigned this medium priority
Data Collection 5.a.ii	Data Collection	FRAMEWORK			Develop RFP to assess whether Framework base map is accurate	TBD One and Done				Recommend letting new data maintenance strategies of the updated Framework go into effect before putting resources towards this item
Data Collection 2.a.i.	Data Collection	Road data			Research cost-effectiveness of data collection effort	TBD One and Done				Data Committee assigned this high priority, but would like better costs per mile first; On hold until better data available based on new data collection policy
Data Collection 2.a.i.	Data Collection	Road data			<i>Develop data for costs-per-mile of data collection</i>	TBD One and Done				Added in order to determine cost effectiveness as identified just above
PA 325 addendum 2.a	Data Research or Analysis	Road data			Develop an understanding of asset deterioration	TBD One and Done				MTU reported on their study of pavement lifecycles - full report on TAMC website; is this one completed?
Project and Investment Reporting 1.suggested.ii	Data Research or Analysis	Road data			<i>Compare PASER data and IRT planned road project data</i>	TBD One and Done				Data Committee assigned this high priority; Broke bridge and pavement into separate work items

reference to 2017-2019 Work Program on website	Category	Work Product	Budgeted item?	Budget Assigned (or to be assigned)	Tasks	Frequency	2020	2021	2022	Notes
<b>Proposed New Item</b>	Data Research or Analysis	Road data			<b><i>Develop means to upload 3 year capital project data to IRT from electronic STIP/TIPs</i></b>	TBD One and Done				This was proposed at a recent meeting
Public Outreach 6.a.i.	Outreach	Social Media			Explore social media platforms	TBD One and Done				ACE gave this medium priority
Training & Education 7.a.ii	Outreach	Website			Pilot two 90 second videos	TBD One and Done				There will be a video on MIC website; does that address this?
PA 325 addendum 5.c	Data Research or Analysis	Technology			Identify technology that may expedite data collection for PA 325 requirements	TBD One and Done				

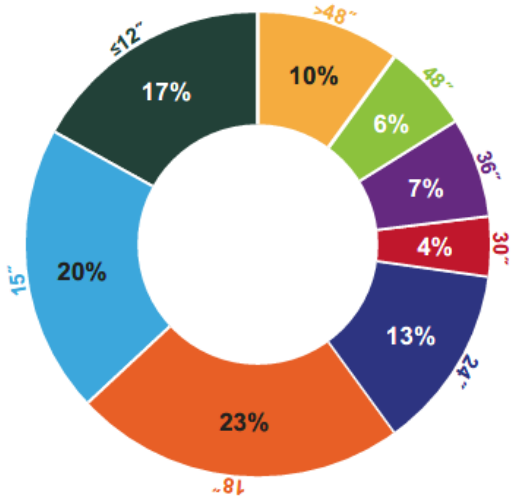
TAMC Culvert Pilot – Data Fields/Elements for TAMC Dashboards & Interactive Maps (DRAFT)

Estimated Local Agency Culvert Condition



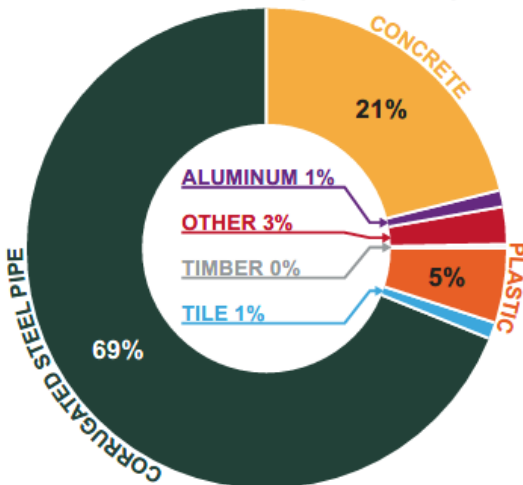
- Agency Name
- Agency Type (County/City/Village)
- Culvert ID
- Location
- Condition Rating (10 Scale Rating)
- Summary of Rating
  - Good
  - Fair
  - Poor
  - Severe

Reported Culverts by Span or Diameter (in inches)



- Agency Name
- Agency Type (County/City/Village)
- Culvert ID
- Location
- Summary of Size Categories:
  - 24" or less
  - > 24" - 48"
  - > 48" - 10'
  - > 10' - < 20'

Reported Culverts by Material Type



- Agency Name
- Agency Type (County/City/Village)
- Culvert ID
- Location
- Culvert Material Type
  - Corrugated Steel
  - Concrete
  - Plastic
  - Other