

# Meeting Agenda Wednesday, January 5, 2022 @ 1:00 PM MDOT Aeronautics Bldg., 1st Floor Auditorium 2700 Port Lansing Road, Lansing, Michigan

A meeting of the Transportation Asset Management Council (TAMC), <u>A Michigan Public Body</u>, will take place at the time and location listed above. Accommodations can be made for persons who require mobility, visual, hearing, written, or other assistance for participation. Large print materials, auxiliary aids or the services of interpreters, signers, or readers are available upon request. Please contact Orlando Curry at <u>517-335-4381</u> or complete <u>Form 2658 for American Sign Language (ASL)</u>. Requests should be made at least five days prior to the meeting date. Reasonable efforts will be made to provide the requested accommodation or an effective alternative, but accommodations may not be guaranteed.

Public Comment for non-agenda items is available at the beginning and ending of the meeting, typically limited to 3 minutes. Public comment on agenda items is also available with each item when called upon by the TAMC Chair.

Meeting Telephone Conference Line: +1 248-509-0316 Access Code: 831 066 359#

Web Meeting Access Link: Click here to join the meeting

- 1. Welcome Call to Order
- 2. Changes or Additions to the Agenda (Action Item as needed) Any items under the Consent Agenda may be moved to the regular agenda upon request of any Council member, member of the public or staff member.
- 3. Public Comments on Non-Agenda Item
- 4. Consent Agenda (Action Item)
  - **4.1.** Approval of the November 3, 2021 Meeting Minutes (Attachment 1)
  - **4.2.** TAMC Financial Report (Attachment 2)
- 5. ACTION ITEMS (Memo)(Action)
  - **5.1.** Consideration of adopting the 2022-2024 TAMC Strategic Work Program (*Attachment 3*)
  - **5.2.** Consideration of Policy for the Collection of Roadway Surface Condition Data for 2022 (Attachment 4)
  - **5.3.** Consideration of Policy for the Submittal and Review of Asset Management Plans for Roads, Bridges and Transportation Infrastructure (*Attachment 5*)
  - **5.4.** Consideration of approval of Transportation Asset Management Plans for Groups A and B (Attachment 6)
- 6. Michigan Infrastructure Council Update
- 7. Correspondence & Announcements
  - **7.1.** TAMC Schedule of Activities & Training 2022 (Attachment 7)
- 8. Committee Review & Discussion Items
  - **8.1** Bridge Committee Update *Curtis/Jones/Wieferich*
  - **8.2** ACE Committee Update *Bradshaw/Mekjian*
  - **8.3** Data Committee Update *McEntee/Tubbs*
- 9. Public Comments
- 10. Member Comments
- 11. Adjournment

Next Meeting, February 2, 2022 1 PM – 3 PM MDOT Aeronautics Bldg., 2700 Port Lansing Road, Lansing, Michigan

# TRANSPORTATION ASSET MANAGEMENT COUNCIL MEETING November 3, 2021 at 1:00 p.m. MEETING MINUTES

This meeting was held via hybrid with Microsoft Teams and at the Michigan Department of Transportation Aeronautics Building Auditorium, 2700 Port Lansing Road, Lansing, Michigan. Below are meeting minutes as provided under Act 267 of the Public Acts of 1976 as amended, or commonly referred to as the Open Meetings Act. Accommodations can be made for persons who require mobility, visual, hearing, written, or other assistance for participation. Large print materials, auxiliary aids or the services of interpreters, signers, or readers are available upon request. Please contact Orlando Curry at 517-335-4381 or complete Form 2658 for American Sign Language (ASL). Requests should be made at least five days prior to the meeting date. Reasonable efforts will be made to provide the requested accommodation or an effective alternative, but accommodations may not be guaranteed.

# \*\* Frequently Used Acronyms List attached

### **Members Present:**

Derek Bradshaw, MAR, Lansing, MI Joanna Johnson, CRA, Kalamazoo, MI – Chair\* Gary Mekjian, Farmington Hills, MI\* Rob Surber, DTMB/CSS, Florida\* Brad Wieferich, MDOT, Lansing, MI

\* Via Microsoft Teams

# **Support Staff Present:**

Roger Belknap, MDOT Eric Costa, MDOT Robert Green, MDOT Eric Mullen, MDOT Gloria Strong, MDOT

### **Public Present:**

Kelly Jones Gareth McKay

### **Members Absent:**

None

#### 1. Welcome – Call-To-Order:

The meeting was called-to-order at 1:15 p.m. due to technical difficulties. Everyone was introduced and welcomed to the meeting. Attendance was verified by roll call by G. Strong

# 2. Changes or Additions to the Agenda (Action Item, as needed):

**Motion:** J. Tubbs made a motion to remove the October meeting minutes on the consent agenda; D. Bradshaw seconded the motion. The motion was approved by all members present.

# 3. Public Comments on Non-Agenda Items:

None

Ryan Buck, MTPA, Ann Arbor, MI\*
Bill McEntee, CRA, Lansing, MI – Vice-Chair
Robert Slattery, MML, Lansing, MI
Jennifer Tubbs, MTA, Lansing, MI
Todd White, MDOT, Mt. Pleasant, MI\*

Tim Colling, MTU/LTAP Cheryl Granger, DTMB/CSS Dave Jennett, MDOT Kyle Nelson, MDOT Mike Toth, MDOT

# 4. Consent Agenda (Action Item):

- 4.1. Approval of October 6, 2021 Meeting Minutes (Attachment 1)
- **4.2.** TAMC Financial Report (Attachment 2)
- R. Belknap provided an updated copy of the TAMC Budget Financial Report.

**Motion:** J. Tubbs made a motion to approve the Financial Report; R. Slattery seconded the motion. The motion was approved by all members present.

# <u>5. Michigan Technological University-Center for Technology and Training Proposals (Memo) – T. Colling:</u>

5.1. – MTU-CTT's TAMC 2022 Education Work Plan Proposal (Attachment 3)

MTU has provided a proposal the same as 2021.

### 5.2. – MTU-CTT's TAMC 2022 Activities Work Plan Proposal (Attachment 4)

MTU provided a proposal with the normal activities same as 2021that covers any formal TAMC needs in-person or remotely. There will be additional needs such as, a separate database for quality review and plans to update the Bridge Guide that have been included in the proposal.

**Motion:** D. Bradshaw made a motion to approve the 2022 Education and Activities Work Plans for MTU: R. Slattery seconded the motion. The motion was approved by all members present.

# 6. Michigan Infrastructure Council Update – J. Johnson:

No representative from the MIC was present at today's meeting. J. Johnson reported that L. Steckelberg, Interim Executive Director for the MIC, presented on behalf of the MIC at the October 2021 TAMC Conference. J. Johnson and L. Steckelberg also gave a presentation at the MAC conference where J. Johnson gave an update on the TAMC and L. Steckelberg gave an update on the MIC.

### 7. Correspondence & Announcements:

# 7.1. – Michigan Association of Counties TAMC Nomination (Attachment 5)

R. Belknap received a formal nomination for Kelly Jones, PE, of the Ingham County from Michigan Association of Counties (MAC) which is pending approval from the State Transportation Commission at their meeting on November 4, 2021. This is to replace the vacancy left by Christopher Bolt, who has relocated outside Michigan.

#### 7.2. – Status of TAMC Member Terms and Attendance Records (Attachment 6)

R. Belknap provided an informational document showing the attendance of Council members at TAMC meetings. This was also included in the letter to MAC when seeking a replacement for Christopher Bolt. This is also a document that Council members can review to see if they are interested in being on other TAMC committees.

### 7.3. – Feedback of 2021 TAMC Fall Virtual Conference – T. Colling/J. Johnson/R. Belknap

T. Colling reported that attendance was down from the last conference. There were 172 people registered to attend. On the first day there were 120 attendees documented by MTU and on the second day there were just over 100 attendees. J. Johnson reported that she kept track of attendees during the conference and on the first day of the conference there were 142 attendees however, by noon the number decreased to 119. On the second day of the conference, she noted that there were 117 attendees and by the end of the day that number decreased to 109 attendees which includes presenters and support staff. It appeared that the panel discussion and the presentation given by Larry Brown were well received and the feedback was good. It was noted R. Belknap did a good job keeping the panel session going and informative. MTU will pull together the conference survey results next week and share the results at the next TAMC meeting.

#### 8. Committee Review and Discussion Items:

# 8.1. – Bridge Committee Update – B. Wieferich

The Bridge Committee did not meet last month therefore, nothing new to report.

# 8.2. – ACE Committee Update – D. Bradshaw

The ACE Committee met today and approved the language in the TAMC Transportation Asset Management Plan Policy. The ACE Committee also decided to keep the TAMC Bylaws as is with no changes. No suggested changes were received from the Council.

G. Strong has contacted two venues and the venues are not able to hold the TAMC conference in September or October due to their venues are already booked by other organizations. Due to the COVID pandemic which began in 2020, many organizations have moved their events to 2022. T. Colling also informed the ACE Committee that he is finding it extremely difficult to find venues for MTU conferences and on-site trainings due to this same reason. G. Strong will continue to try to find an available venue and report back at the next ACE Committee meeting.

# 8.2.1. – Status of Group A, B, and Small Agency Transportation Asset Management Plans (Attachments 7, 8, and 9) – D. Bradshaw/G. Strong

The ACE Committee reviewed the document provided by G. Strong on Groups A, B, and small agency TAMPs and based upon her recommendations, approved one Group A, City of Portage, TAMP and the following Group B TAMPs to go on to the Council for their review and approval:

For Public Act 325, Group B, there are 41 agencies due; 16 TAMPs were received by the October 1, 2021 deadline. There has been four TAMPs received after the October 1, 2021 deadline. A total of 21 agencies did not submit a TAMP as required by Public Act 325. G. Strong has done a review of the submitted TAMPs where seven TAMPs were found to need further review or additional information. G. Strong is recommending today to the ACE Committee approval of the following 13 Group B TAMPs: Emmett County, Washtenaw County, City of Rochester Hills, Livingston County, Road Commission for Oakland County, Alpena County, City of Battle Creek, City of Kalamazoo, Marquette County Road Commission, City of Saginaw, Wexford County Road Commission, Houghton County Road Commission, and Mackinac County Road Commission.

G. Strong also provided a status report of small agency TAMPs submitted into the IRT or had questions for TAMC support staff review.

**Action Item:** G. Strong will provide the names of the seven agencies from Group A that have not submitted a TAMP to J. Johnson to contact the County Road Association to possibly contact the agencies to offer assistance with completion of their TAMPs.

#### 8.3. – Data Committee Update – B. McEntee

Data Collection efforts are moving into the final month. Agencies are indicating they are wrapping up their PASER data collections. Some agencies are coming together from other regions to help provide teams to rate roads. Others are using state vehicles to do their data collection. There has been 52,000 lane miles collected so far. Some data has not been submitted into the IRT. City of Detroit is still working on their PASER data collection. Southeast Michigan Council of Governments (SEMCOG) and Washtenaw Area Transportation Study (WATS) may need help to evaluate the Washtenaw County trunkline. They are hoping for a dry November in order to

complete their PASER data collection. Washtenaw County hopes to complete their data collection next Tuesday however, they may need to go into December. D. Jennett stated if they need to go into December it would not cause any issues with the TAMC data analysis. J. Johnson reminded the Council that the TAMC PASER Data Collections Policy regarding the submittal of data states PASER data collections should be completed by the last Friday in November and submitted by mid-December. SEMCOG may appreciate an extension. There have been very few times when data has been submitted into the IRT after the mid-December date. TAMC must take into consideration weather (weather sometimes changes the data), agency workloads, and staffing issues. TAMC did make some budget changes to accommodate late submissions and collections. TAMC may need to reach out to all the agencies and inform them they may go over the collection deadline in order to complete their PASER data collections. TAMC would like to reach out to agencies to check if they need assistance with completing their data collections.

### 9. Public Comments:

Kelly Jones joined the meeting late and was welcomed to the meeting.

### 10. Member Comments:

R. Slattery stated it was great to see so many Council members, support staff, and Brian Sanada, former TAMC Coordinator, attend the October 27 and 28, 2021 TAMC Conference.

# 11. Adjournment:

The meeting adjourned at 2:22 p.m. The next meeting is scheduled for December 1, 2021, MDOT Aeronautics Building, 2700 Port Lansing Road, Lansing, Michigan

TAMC	FREQUENTLY USED	
ACRON	IYMS:	
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	
ACE	ADMINISTRATION, COMMUNICATION, AND EDUCATION (TAMC COMMITTEE)	
ACT 51	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.	
ADA	AMERICANS WITH DISABILITIES ACT	
ADARS	ACT 51 DISTRIBUTION AND REPORTING SYSTEM	
ВТР	BUREAU OF TRANSPORTATION PLANNING (MDOT)	
CFM	COUNCIL ON FUTURE MOBILITY	
СРМ	CAPITAL PREVENTATIVE MAINTENANCE	
CRA	COUNTY ROAD ASSOCIATION (OF MICHIGAN)	
CSD	CONTRACT SERVICES DIVISION (MDOT)	
CSS	CENTER FOR SHARED SOLUTIONS	
DI	DISTRESS INDEX	
ESC	EXTENDED SERVICE CONTRACT	
ETL	Exchange, Transfer, and Load	
FAST	FIXING AMERICA'S SURFACE TRANSPORTATION ACT	
FHWA	FEDERAL HIGHWAY ADMINISTRATION	

FOR	FINIANICIAL OPERATIONIC DIVICIONI (NADOT)	
FOD	FINANCIAL OPERATIONS DIVISION (MDOT)	
FY	FISCAL YEAR	
GLS	GENESEE-LAPEER-SHIAWASSEE REGION V	
REGION V	PLANNING AND DEVELOPMENT COMMISSION	
GVMC	GRAND VALLEY METRO COUNCIL	
HPMS	HIGHWAY PERFORMANCE MONITORING SYSTEM	
IBR	INVENTORY BASED RATING	
IRI	INTERNATIONAL ROUGHNESS INDEX	
IRT	INVESTMENT REPORTING TOOL	
KATS	KALAMAZOO AREA TRANSPORTATION STUDY	
KCRC	KENT COUNTY ROAD COMMISSION	
LDC	LAPTOP DATA COLLECTORS	
LTAP	LOCAL TECHNICAL ASSISTANCE PROGRAM	
MAC	MICHIGAN ASSOCIATION OF COUNTIES	
MAP-21	MOVING AHEAD FOR PROGRESS IN THE 21 <sup>ST</sup>	
	CENTURY (ACT)	
MAR	MICHIGAN ASSOCIATION OF REGIONS	
MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION	
МОТМВ	MICHIGAN DEPARTMENT OF TECHNOLOGY,	
	MANAGEMENT AND BUDGET	
MIC	MICHIGAN INFRASTRUCTURE COMMISSION	
MITA	MICHIGAN INFRASTRUCTURE AND	
	TRANSPORTATION ASSOCIATION	
MML	MICHIGAN MUNICIPAL LEAGUE	
МРО	METROPOLITAN PLANNING ORGANIZATION	
MTA	MICHIGAN TOWNSHIPS ASSOCIATION	
MTF	MICHIGAN TRANSPORTATION FUNDS	
MTPA	MICHIGAN TRANSPORTATION PLANNING	
	ASSOCIATION	
MTU	MICHIGAN TECHNOLOGICAL UNIVERSITY	
NBI	NATIONAL BRIDGE INVENTORY	
NBIS	NATIONAL BRIDGE INSPECTION STANDARDS	
NFA	NON-FEDERAL AID	
NFC	NATIONAL FUNCTIONAL CLASSIFICATION	
NHS	NATIONAL HIGHWAY SYSTEM	
PASER	PAVEMENT SURFACE EVALUATION AND RATING	
PNFA	PAVED NON-FEDERAL AID	
PWA	PUBLIC WORKS ASSOCIATION	
QA/QC	QUALITY ASSURANCE/QUALITY CONTROL	
RBI	ROAD BASED INVENTORY	
RCKC	ROAD COMMISSION OF KALAMAZOO COUNTY	
ROW	RIGHT-OF-WAY	
RPA	REGIONAL PLANNING AGENCY	
RPO	REGIONAL PLANNING ORGANIZATION	
SEMCOG	SOUTHEAST MICHIGAN COUNCIL OF	
	GOVERNMENTS	
STC	STATE TRANSPORTATION COMMISSION	
STP	STATE TRANSPORTATION PROGRAM	
TAMC	TRANSPORTATION ASSET MANAGEMENT	
	COUNCIL	
TAMP	TRANSPORTATION ASSET MANAGEMENT PLAN	
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TPM	TRANSPORTATION PERFORMANCE MEASURES	
UWP	UNIFIED WORK PROGRAM	
WATS	WASHTENAW AREA TRANSPORTATION STUDY	

S:/GLORIASTRONG/TAMC FREQUENTLY USED ACRONYMS.03.15.2021.GMS

Michigan	1	FY20 Budget	F	Y20 Year to	o Date	FY21 Budget	FY21 Ye	ar to I	Date	F'	Y22 Budget	FY2	2 Year	to Date
Transportation Asset Management Council			dicates Contrac	act Completed			dicates Contract Compl			ı.	TZZ Duuget			
Wanagement Council														
	cent invoice)	\$	Sper	nt	Balance	\$	Spent		Balance		\$	Spent		Balance
I. Data Collection & Regional-Metro Planning Asset Management Proga														
Battle Creek Area Transporation Study Bay County Area Transportation Study	4QTR-21 4QTR-21	\$ 20,500.00 \$ 19,900.00		346.46 \$ 217.13 \$	153.54 1,682.87	\$ 20,500.00 \$ 19,900.00			7,221.04 437.45	\$	20,500.00 19,900.00		- 5	
Central Upper Peninsula Planning and Development	4QTR-21	\$ 50,000.00		000.00 \$	1,082.87	\$ 50,000.00			437.43	Ś	50,000.00		- 9	
East Michigan Council of Governments	Nov	\$ 108,000.00		.000.00 \$	_	\$ 108,000.00			41,961.66	\$	108,000.00		2.21	
Eastern Upper Peninsula Regional Planning & Devel.		\$ 25,000.00		000.00 \$	_	\$ 25,000.00			12,499.63	\$		\$	- 9	
Genesee Lapeer Shiawasse Region V Planning Com.	Sept	\$ 46,000.00		000.00 \$	-	\$ 46,000.00			25,961.62	\$	46,000.00		- 9	
Grand Valley Metropolitan Council	Sept	\$ 24,000.00	\$ 24,0	000.00 \$	-	\$ 24,000.00	\$ 23,864.31	\$	135.69	\$	24,000.00	\$	- 5	24,000.00
Kalamazoo Area Transportation Study	Sept	\$ 22,000.00	\$ 21,2	249.18 \$	750.82	\$ 22,000.00	\$ 10,046.13	\$	11,953.87	\$	22,000.00	\$	- 5	22,000.00
Macatawa Area Coordinating Council	3QTR-21	\$ 19,000.00	\$ 2,3	357.60 \$	16,642.40	\$ 19,000.00	\$ 13,855.61	\$	5,144.39	\$	19,000.00	\$	- 5	19,000.00
Midland Area Transportation Study	4QTR-21	\$ 21,000.00		000.00 \$	-	\$ 21,000.00			-	\$		\$	- 5	,
Northeast Michigan Council of Governments	July	\$ 51,000.00		.000.00 \$	-	\$ 51,000.00			-	\$		\$	- ;	
Networks Northwest	4QTR-21	\$ 75,000.00		099.54 \$	33,900.46	\$ 75,000.00			69,006.44	\$	75,000.00		- 5	
Region 2 Planning Commission	3QTR-20	\$ 40,000.00		497.00 \$	26,503.00	\$ 40,000.00		\$		\$		\$	- 5	.,
Saginaw Area Transportation Agency	4QTR-20	\$ 21,000.00		790.13 \$	6,209.87		\$ -	\$	21,000.00	\$	,	\$	- 5	,
Southcentral Michigan Planning Commission Southeast Michigan Council of Governments	Sept Sept	\$ 55,000.00 \$ 174,000.00		979.20 \$ .000.00 \$	20.80	\$ 55,000.00 \$ 174,000.00			39,806.88	\$	55,000.00 174,000.00		- 3	
Southwest Michigan Planning Commission		\$ 41,000.00		412.78 \$	1,587.22	\$ 41,000.00			26,731.65	\$	41,000.00		- 9	
Tri-County Regional Planning Commission	4QTR-21	\$ 40,000.00		.000.00 \$	-		\$ 8,458.00		31,542.00	\$		\$	- 9	,
West Michigan Regional Planning Commission	4QTR-20	\$ 88,000.00		951.79 \$	14,048.21	\$ 88,000.00		\$		\$		\$	- 3	
West Michigan Shoreline Regional Development Com.	Nov	\$ 54,000.00		898.70 \$	101.30	\$ 54,000.00			20,535.88	\$			9.74	
Western Upper Peninsula Regional Planning & Devel.	4QTR-21	\$ 42,000.00	\$ 42,0	000.00 \$	-	\$ 42,000.00	\$ 11,942.09	\$	30,057.91	\$	42,000.00	\$	- 5	42,000.00
MDOT Region Participation & State Vehicle Use	10/28/20	\$ 30,000.00	\$ 9,5	570.41 \$	20,429.59	\$ 30,000.00	\$ -	\$	30,000.00	\$	30,000.00	\$	- 5	30,000.00
PASER Quality Review Contract	8/25/20	\$ 50,000.00	\$	- \$	50,000.00	\$ 50,000.00	\$ -	\$	50,000.00	\$	50,000.00	\$	- ;	50,000.00
Data Collection & Regional-Metro Progam Total		\$ 1,116,400.00	\$ 944,3	369.92 \$	172,030.08	\$ 1,116,400.00	\$ 564,403.89	\$	551,996.11	\$ :	1,116,400.00	\$ 5,60	1.95	1,110,798.05
III. TAMC Central Data Agency (MCSS)		ć 64.300.00	ć 70.0	225.00 6	(0.035.00)	¢ 56 500 00	45.044.73		40 725 27		CE 002 00	ć 7.00	0.00	57 422 00
Project Management	12/22/21	\$ 64,200.00 \$ 37,000.00		.225.00 <b>\$</b> .675.55 <b>\$</b>	(8,025.00) 8.324.45	\$ 56,580.00 \$ 25,870.00			10,735.27	\$	65,093.00		0.00	
Data Support /Hardware / Software Application Development / Maintenance / Testing	12/22/21 12/22/21	\$ 166,000.00		.675.55 \$ .217.02 <b>\$</b>	(1,217.02)	\$ 25,870.00 \$ 171,250.00			2,632.02 (3,384.38)	\$	44,298.00 202,880.00			,
Help Desk / Misc Support / Coordination		\$ 53,250.00		634.15 \$	3,615.85	\$ 67,360.00			(30,929.56)	\$	26,679.00		4.19	
Training	12/22/21	\$ 26,000.00		486.22 \$	7,513.78	\$ 16,170.00			6,550.53	\$	14,000.00		- (	
			y 10,	.00.LL P	7,515.70	φ 10,170.00		~	0,550.55					
Data Access / Reporting	12/22/21	\$ 28.500.00	\$ 36.5	500.00 \$	(8,000,00)	\$ 37,720.00	\$ 23,216,90	Ś	14.503.10	Ś	22.000.00	5 6./1	8.30	
Data Access / Reporting  TAMC Central Data Agency (MCSS) Total	12/22/21	\$ 28,500.00 \$ <b>374,950.00</b>		<del>-</del>	(8,000.00) <b>2,212.0</b> 6	\$ 37,720.00 \$ 374,950.00			14,503.10 106.98	\$ <b>\$</b>		\$ 6,71 <b>\$ 67,31</b>	8.30 \$	
TAMC Central Data Agency (MCSS) Total		\$ 374,950.00	\$ 372,7	737.94 \$	2,212.06	\$ 374,950.00	\$ 374,843.02	\$	106.98	-				
			\$ 372,7				\$ 374,843.02	\$		\$		\$ 67,31		307,638.97
TAMC Central Data Agency (MCSS) Total  IV. MTU Training & Education Program Contract	12/20/21	\$ 374,950.00 \$ 225,000.00	\$ 372,7 \$ 224,2	737.94 \$ 280.94 \$	2,212.06 719.06	\$ 374,950.00 \$211,391.21	\$ 374,843.02 \$ 158,391.42	\$	106.98 52,999.79	\$	374,950.00 \$210,658.15	\$ 67,31 \$	1.03	307,638.97 210,658.15
TAMC Central Data Agency (MCSS) Total		\$ 374,950.00	\$ 372,7 \$ 224,2	737.94 \$	2,212.06	\$ 374,950.00	\$ 374,843.02 \$ 158,391.42	\$	106.98	\$	374,950.00	\$ 67,31 \$	1.03	307,638.97
TAMC Central Data Agency (MCSS) Total  IV. MTU Training & Education Program Contract	12/20/21	\$ 374,950.00 \$ 225,000.00	\$ 372,7 \$ 224,2	737.94 \$ 280.94 \$	2,212.06 719.06	\$ 374,950.00 \$211,391.21	\$ 374,843.02 \$ 158,391.42	\$	106.98 52,999.79	\$	374,950.00 \$210,658.15	\$ 67,31 \$	1.03	307,638.97 210,658.15
TAMC Central Data Agency (MCSS) Total  IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract	12/20/21	\$ 374,950.00 \$ 225,000.00	\$ 372,7 \$ 224,2	737.94 \$ 280.94 \$	2,212.06 719.06	\$ 374,950.00 \$211,391.21	\$ 374,843.02 \$ 158,391.42	\$	106.98 52,999.79	\$	374,950.00 \$210,658.15	\$ 67,31 \$ \$	1.03	\$ 210,658.15 \$ 128,424.93
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses	12/20/21	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00	\$ 372,7 \$ 224,2 \$ 115,0	737.94 \$ 280.94 \$	2,212.06 719.06	\$ 374,950.00 \$211,391.21 \$129,464.81	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09	\$ \$	106.98 52,999.79	\$	\$210,658.15 \$128,424.93	\$ 67,31 \$ \$	1.03 ·	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00
TAMC Central Data Agency (MCSS) Total  IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses	12/20/21 12/20/21 12/10/19	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8	737.94 \$ 280.94 \$ 011.82 \$	2,212.06 719.06 (11.82)	\$ 374,950.00 \$211,391.21 \$129,464.81 \$	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$	\$ \$ \$	106.98 52,999.79 87,909.72	\$	\$210,658.15 \$128,424.93	\$ 67,31 \$ \$	1.03	307,638.97 210,658.15 128,424.93
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7	737.94 \$ 280.94 \$ 011.82 \$	2,212.06 719.06 (11.82)	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72	\$	374,950.00 \$210,658.15 \$128,424.93 10,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$	-	5 307,638.97 5 210,658.15 6 128,424.93 6 10,000.00 6 - 6 10,000.00
TAMC Central Data Agency (MCSS) Total  IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$	2,212.06 719.06 (11.82)	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ -	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72	\$	374,950.00 \$210,658.15 \$128,424.93 10,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$	- S	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ - \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Expenses Spring Conference Expenses Spring Conference Expenses Net Spring Conference	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ -	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$	2,212.06 719.06 (11.82) 10,108.10	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 5	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72	\$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ - \$ 10,000.00 \$ - \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses  Fall Conf. Attendence Fees + sponsorship Fees  Net Fall Conference Expenses  Spring Conference Expenses  Spring Conf. Attendence Fees + sponsorship Fees  Net Spring Conference  Unallocated / Contingency	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7	737.94 \$ 280.94 \$ 011.82 \$ 890.00	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ - \$ 20,000.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 - - 10,000.00 - - 20,000.00	\$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ - \$ 10,000.00 - \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses  Fall Conference Expenses  Fall Conference Expenses  Net Fall Conference  Spring Conference Expenses  Spring Conference Expenses  Spring Conference Expenses  Spring Conference Expenses  Onter Conference  Unallocated / Contingency  Other Council Expenses (Member Mileage Expenses/Printing/Etc.)	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00	\$ 224,2 \$ 115,6 \$ 6,8 \$ 6,7 \$ \$	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 20,000.00 \$ 10,000.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 - - - 10,000.00 - - 20,000.00 9,838.50	\$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 10,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- S	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Expenses Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 46,890.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ \$ 046.24 \$ 828.14 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 5 - \$ - \$ 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 - - 10,000.00 - - 20,000.00 9,838.50 39,838.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ \$ 046.24 \$ 828.14 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 5 - \$ - \$ 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 - - - 10,000.00 - - 20,000.00 9,838.50	\$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Expenses Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1878,240.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ \$ 046.24 \$ 828.14 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 5 - \$ - \$ 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 	\$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,870,433.08
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program Appropriation	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 1,000.00 \$ 46,890.00 \$ 46,890.00 \$ 1,878,240.00 \$ 1,876,400.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34%	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 5 - \$ - \$ 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 - 10,000.00 - 20,000.00 9,838.50 39,838.50 732,851.10 39.14%	\$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,000.00 \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1878,240.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ \$ 046.24 \$ 828.14 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34%	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 5 - \$ - \$ 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 - 10,000.00 - 20,000.00 9,838.50 39,838.50 732,851.10 39.14%	\$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,870,433.08
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Expenses Met Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program Appropriation  VII. Special Projects with Separate Budgets	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 FY20 Budget	\$ 372,7 \$ 224,2 \$ 115,6 \$ 6,5 \$ 6,7 \$ \$ \$ 2,0 \$ 8,8 \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34%	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14%	\$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,870,433.08 \$ 100.00%
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses  Fall Conference Expenses  Fall Conference Expenses  Net Fall Conference Expenses  Spring Conference Expenses  Spring Conference Expenses  Spring Conference Expenses  Spring Conference Expenses  Net Spring Conference  Unallocated / Contingency  Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program  Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3)	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00 \$ 1,876,400.00	\$ 372,7 \$ 224,2 \$ 115,6 \$ 6,8 \$ 6,7 \$ \$ \$ \$ 2,0 \$ 8,8 \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance	\$ 374,950.00 \$211,391.21 \$129,464.81 \$ - \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ 161.50 \$ 161.50 \$ 1,139,354.92 FY21 Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- (1.03	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Expenses Spring Conference Expenses Spring Conference Expenses Spring Conference Expenses Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS)	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 146,890.00 \$ 1,878,240.00 \$ 1,878,240.00 \$ \$ 25,000.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ 2,0 \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34%	\$ 374,950.00 \$211,391.21 \$129,464.81  \$ -5 \$ -0 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 140,000.00 \$ 1,872,206.02 \$ 1,876,400.00  FY21 Budget \$ 5 \$ 70,000.00	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09  \$ \$ \$ \$ \$ \$ \$ 161.50 \$ 161.50 \$ 1,139,354.92  FY21 Ye  Spent \$ 995.55	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$ 69,004.45	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- ! - ! - ! - ! - ! - ! - ! - !	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 10,000.00 \$
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,876,240.00  FY20 Budget  \$ \$ \$ 25,000.00 \$ 55,011.46	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,6 \$ 6,7 \$ \$ \$ 2,0 \$ 8,8 \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00 \$211,391.21 \$129,464.81  \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.00  FY21 Budget  \$ 70,000.00 \$ 135,007.92	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ 161.50 \$ 161.50 \$ 161.50 \$ 77,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$ 69,004.45 77,258.02	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- !	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 1
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 5-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered)	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 146,890.00 \$ 1,878,240.00 \$ 1,878,240.00 \$ \$ 25,000.00	\$ 372,7 \$ 224,2 \$ 115,6 \$ 6,7 \$ 6,7 \$ \$ 2,0 \$ 8,8 \$ 1,665,2 FF \$ 18,7 \$ 55,0 \$ \$	737.94 \$ 280.94 \$ 011.82 \$ 8890.00 781.90 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance	\$ 374,950.00  \$211,391.21  \$129,464.81  \$ -5  \$ 0.000.00  \$ 10,000.00  \$ 10,000.00  \$ 1,872,206.02  \$ 1,876,400.00  FV21 Budget  \$ 7,000.00  \$ 135,007.92  \$ 274,117.59	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ \$ \$ \$ \$ \$ 161.50 \$ 161.50 \$ 161.50 \$ 7749.90 \$ \$ 995.55 \$ 57,749.90 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$ 69,004.45 77,258.02 117.59	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 1
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00  FY20 Budget \$ 5,000.00 \$ 5,000.00 \$ 472,863.51	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,6 \$ 6,7 \$ \$ \$ 2,0 \$ 8,8 \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00 \$211,391.21 \$129,464.81  \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.00  FY21 Budget  \$ 70,000.00 \$ 135,007.92	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ 161.50 \$ 161.50 \$ 161.50 \$ 77,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$ 69,004.45 77,258.02 117,59 24,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- !	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 1
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 5-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,878,240.00 \$ 1,878,240.00 \$ 25,000.00 \$ 46,890.00 \$ 1,878,240.00	\$ 372,7 \$ 224,2 \$ 115,6 \$ 6,7 \$ \$ \$ \$ \$ \$ \$ 2,0 \$ 8,8 \$ \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00  \$211,391.21  \$129,464.81  \$ - \$ - \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00  FY21 Budget  \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ 274,117.59	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ - \$ - \$ - \$ - \$ - \$ 161.50 \$ 161.50 \$ 161.50 \$ 1,139,354.92 FY21 Ye Spent \$ 995.55 \$ 5,7749.90 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- !! - !! - !! - !! - !! - !! - !! - !!	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,878,240.00 \$ 1,878,240.00 \$ 25,000.00 \$ 46,890.00 \$ 1,878,240.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ 2,0 \$ 8,8 \$ 1,665,2	737.94 \$ 280.94 \$ 890.00 781.90 \$  -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00 \$211,391.21 \$129,464.81  \$ -5 \$ -0 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00  FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ -5	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09 \$ \$ \$ \$ \$ \$ 161.50 \$ 161.50 \$ 1,139,354.92  FY21 Ye  Spent \$ 995.55 \$ 57,749.90 \$ \$ \$ \$ \$ \$ \$ \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 18,70,433.08 1,876,400.00 Y22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 10,000.00 10,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- (1.03 (1.0	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 10,000.00 \$
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,878,240.00 \$ 1,878,240.00 \$ 25,000.00 \$ 46,890.00 \$ 1,878,240.00	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,6 \$ 6,7 \$ \$ \$ 2,0 \$ 8,8 \$ 1,665,2	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00  \$211,391.21  \$129,464.81  \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,872,206.02 \$ 1,876,400.00  FY21 Budget  \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ \$ - \$	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09  \$ - \$ - \$ \$ - \$ \$ - \$ \$ 161.50 \$ 161.50 \$ 161.50 \$ 57,749.90 \$ - \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93  10,000.00 10,000.00 10,000.00 40,000.00 1,870,433.08 1,876,400.00  Y22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 10,000.00 16,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- (1.03 (1.0	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 40,000.00 \$ 10,000.00 \$ 1
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Expenses Met Spring Conference Expenses Spring Conference Expenses Inalicated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  TAMC Expenses Total  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00 \$ 1,878,240.00  FY20 Budget  \$ \$ 25,000.00 \$ 5,55,011.46 \$ 472,863.51 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	\$ 372,7 \$ 224,2 \$ 115,6 \$ 6,7 \$ \$ 6,7 \$ \$ 2,0 \$ 8,8 \$ 1,665,2 FF \$ 18,7 \$ \$ 55,0 \$ \$ \$	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$ -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00  \$211,391.21  \$129,464.81  \$ - 5  \$ 10,000.00  \$ 10,000.00  \$ 40,000.00  \$ 1,872,206.02  \$ 1,876,400.00  FY21 Budget  \$ 70,000.00  \$ 135,007.92  \$ 274,117.59  \$ - 5  \$ - 5  \$ - 5	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09  \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 161.50 \$ 161.50 \$ 161.50 \$ 7749.90 \$ 57,749.90 \$ - \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93  10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00  Y22 Budget \$ 69,004.45 77,258.02 117,59 24,000.00 42,000.00 16,000.00 6,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 10,000.00 \$
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest Southcentral Michigan Planning Commission	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 146,890.00 \$ 10,000.00 \$ 1,878,240.00 \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ -5 \$ -5 \$ -5 \$ -5 \$ -5 \$ -5 \$ -5 \$ -5	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$ \$ 1,665,2 FF \$ 18,7 \$ \$ \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 6,7	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$  -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00  \$211,391.21  \$129,464.81  \$ - \$ - \$ - \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00  FY21 Budget  \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09  \$ - \$ - \$ - \$ - \$ - \$ 161.50 \$ 161.50 \$ 1,139,354.92  FY21 Ye  Spent \$ 995.55 \$ 57,749.90 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	374,950.00 \$210,658.15 \$128,424.93 10,000.00 - 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00 Y22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 16,000.00 6,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- (1.03 (1.0	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,870,433.08 \$ 100.00%
IV. MTU Training & Education Program Contract  V. MTU Activities Program Contract  VI. TAMC Expenses  Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Fall Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total  Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest Southcentral Michigan Planning Commission Southeast Michigan Council of Governments	12/20/21 12/20/21 12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 374,950.00 \$ 225,000.00 \$ 115,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,240.00  FY20 Budget \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ - \$ \$ -	\$ 372,7 \$ 224,2 \$ 115,0 \$ 6,8 \$ 6,7 \$ \$ \$ \$ \$ \$ \$ 1,665,2 FF \$ 18,7 \$ \$ \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 6,7	737.94 \$ 280.94 \$ 011.82 \$ 890.00 781.90 \$  -	2,212.06 719.06 (11.82) 10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance 6,262.00	\$ 374,950.00 \$211,391.21 \$129,464.81  \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 140,000.00 \$ 1,872,206.02 \$ 1,872,206.02 \$ 1,876,400.00  FY21 Budget  \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	\$ 374,843.02 \$ 158,391.42 \$ 41,555.09  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	106.98 52,999.79 87,909.72 10,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45 77,258.02	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	374,950.00 \$210,658.15 \$128,424.93  10,000.00 10,000.00 10,000.00 40,000.00 40,000.00 1,870,433.08 1,876,400.00  Y22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 10,000.00 10,000.00 16,000.00 33,000.00	\$ 67,31 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 307,638.97 \$ 210,658.15 \$ 128,424.93 \$ 10,000.00 \$ 1,870,433.08 \$ 100.00%
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### Notes:

TAMC voted to extend service dates of FY20 contracts with Regional-Metro Planning to expire on 9-30-21; the contract for PASER Quality Review has been extended to 9-30-21

TAMC voted to extend service date of FY21 contracts with Regional-Metro Planning to expire on 9-30-22; TAMC voted to move the balance of unspent Mi Local Agency Culvert Inventory Pilot funds from FY18 into FY22's Special Projects Program

86.66%



# Memo

**To:** TAMC Members

From: Roger Belknap, TAMC Coordinator

Date: December 22, 2021

**Re:** Action Items for January 5, 2022 TAMC Meeting

There are four agenda items that are up for consideration by TAMC; these include:

- Consideration of adopting the 2022-2024 TAMC Strategic Work Program that has been reviewed and approved by the TAMC ACE Committee on November 3, 2021.
   Refer to Attachment 3.
- Consideration of updating the TAMC Policy for the Collection of Roadway Surface Condition Data. For 2021, this policy was identified as a "Pilot Policy" since significant changes to the longstanding procedure of 3-member rating teams were changed as well as some modifications to training requirements. Also, in 2021, TAMC set the directive to collect 100% of the Federal Aid network. The proposed policy for 2022 maintains much of these directives although it proposes a collection of no less than 50% of the Federal Aid System. There's some added content to assist in directing procedures on vehicle use and updated dates for training. Changes from the 2021 policy have been highlighted in yellow; see attachment 4.
- Consideration of updating the TAMC Policy for the Submittal and Review of Transportation Asset Management Plans. This has been an agenda item for the ACE Committee and this latest draft was approved by ACE on November 3, 2021. The main changes in this policy are to identify procedures for managing the submittal and review procedures for agencies with less than 100 miles, as well as incorporating directives from Public Act 164 of 2020. Refer to Attachment 5.
- Consideration of approving asset management plans for Groups A and B as outlined in Attachment 6.

TAMC support staff recommends approval of all four of these items.

**DRAFT** 



2022-2023-2024

Strategic Work Program

# **Michigan Transportation Asset Management Council**

Chair: Joanna Johnson, CRA: Vice-Chair: Bill McEntee, CRA: Gary Mekjian, MML: Bob Slattery, MML: Ryan Buck, MTPA: Todd White, MDOT: Brad Wieferich, MDOT: Kelly Jones, MAC: Derek Bradshaw, MAR: Jennifer Tubbs, MTA: Rob Surber, MCSS

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**G – Michigan Technological University's 2022 Education Work Plan** 

K – August 4, 2021 TAMC Strategic Session Meeting Minutes

I – Regional and Metropolitan Planning Organization Unified Work Program

H - Michigan Technological University's 2022 Technical Assistance Activities Work Plan

J - Michigan Technological University's 2021-2022 Culvert Condition Assessment Work

# **Overview**

The Transportation Asset Management Council (TAMC) is expanding the practice of asset management statewide to enhance the productivity of investing in Michigan's roads and bridges through coordination and collaboration among state and local transportation agencies. TAMC's activities include surveying and reporting the condition of roads, bridges, and surface transportation system by functional classification categories and assessing completed and planned investments in roads and bridges. TAMC also supports the development of appropriate asset management methodologies and provides education and training on the benefits of developing road improvement programs using asset management principles and procedures. A key component for the TAMC is providing value for the transportation agencies in the training/education, data that is collected and analysis.

TAMC is comprised of professionals from county road agencies, cities, township officials, regional and metropolitan planning organizations, and state transportation department personnel. The Transportation Asset Management Council reports directly to the Michigan Infrastructure Council (MIC) and is a resource for the State Transportation Commission (STP) and the Michigan Legislature. Members of the Transportation Asset Management Council are appointed to 3-year terms. The Center for Shared Solutions (CSS) is the Central Data Storage Agency (CDSA) of TAMC and serves as a non-voting member. The activities of TAMC are supported by the TAMC Coordinator and Michigan Department of Transportation (MDOT).

Vision:

A national leader, promoting asset management principles and practices, to guide investment decisions among Michigan's transportation agencies

Mission:

To develop and support excellence in managing Michigan's transportation assets by:

- Advising the legislature, the State Transportation Commission, the Michigan Infrastructure Council, transportation committees, and others
- 2. Promoting asset management principles
- 3. Providing tools and practices for road agencies
- 4. Collaborate and coordinate with Water Asset Management Council and other asset owners

# **Purpose**

The purpose of this work program is to provide guidance on the strategies, financial and tactical tasks associated with carrying out the TAMC program as required under Michigan law. The

work program also provides tactical objectives directing the various committees, contractors, support staff and program partners for the timeframe of 2021 - 2023.

### **TAMC Legislation and Public Act 51**

TAMC was formed under Public Act (PA) 499 of 2002 followed by several amendments, including PA 338 of 2006; PA 199 of 2007; PA 257 of 2010; PA 298 and PA 506 of 2012; PA 323 and PA 325 of 2018; and PA 152, PA 153 and PA 164 of 2020. PA 499 of 2002 established TAMC as an organization with membership and staffing within MDOT and created the responsibility to prepare an annual report detailing its activities during the previous year and plans for upcoming years. Initially, under PA 499 TAMC was accountable to the State Transportation Commission; in 2018 this changed under PA 323, where the Michigan Infrastructure Council would have oversight responsibility of TAMC as well as the Water Asset Management Council (WAMC).

The TAMC's current list of statutory responsibilities includes:

- Advising the Michigan Infrastructure Council on a statewide asset management strategy (Michigan Compiled Law (MCL) 247.659a(3));
- Advising the Michigan Infrastructure Council on the processes and necessary tools needed to implement asset management strategies on a statewide basis, beginning with the federal-aid eligible highway system and infrastructure assets that impact system performance, safety, or risk management, including signals and culverts. (MCL 247.659a(3));
- TAMC, in conjunction with the department, counties, and municipalities, shall
  develop and implement a pavement management system for each mile of roadway
  on the Federal-Aid eligible highway system in Michigan. This pavement
  management system shall attempt to ensure that a disproportionate share of
  pavement shall not become due for replacement or major repair at the same time.
  TAMC shall provide local road agencies with the training needed to utilize the
  pavement management system in accordance with this section. (MCL 247.651g);
- Allowing road agencies in the state to link to the TAMC dashboards to improve government transparency as it relates to transportation infrastructure (MCL 247.668j(3c));
- TAMC is also permitted, under the act, to appoint technical advisory committee whose members shall serve as needed to provide research on issues and projects as determined by TAMC (MCL 247.659a(7));
- TAMC shall promote and oversee the implementation of recommendations from the regional infrastructure asset management pilot program on a statewide level as the program relates to roads, bridges, and related transportation infrastructure (MCL 247.659a(9));
- TAMC shall develop a template for an asset management plan for use by local road agencies responsible for 100 or more certified miles of road and require its submission to the TAMC (MCL 247.659a(10));

- TAMC shall establish a schedule for the submission of asset management plans by local road agencies (MCL 247.659a(10));
- TAMC shall review asset management plans submitted no later than 6 months after receipt of the asset management plan and compare the asset management plan to the minimum requirements and the template created by TAMC and determine whether the asset management plan is in compliance with those standards. If the asset management plan does not meet those standards, TAMC shall seek concurrence from MDOT that the asset management plan does not meet the TAMC standard. If MDOT concurs, TAMC shall require the local road agency to revise its asset management plan to conform to the standards within 6 months after notifying the local road agency that the asset management plan does not meet the TAMC standard. TAMC shall provide an opportunity for a noncompliant local road agency to discuss the reasons the local road agency's plan is not in compliance and ways for the local road agency to become compliant (MCL 247.659a(13));
- Beginning October 1, 2025, if TAMC, and MDOT concurs, that a local road agency has not demonstrated progress toward achieving the condition goals described in its asset management plan for its Federal-Aid eligible County Primary Road System or City Major Street System, TAMC shall provide notice to the local road agency of the reasons that it has determined progress is not being made and recommendations on how to make progress toward the local road agency's condition goals. The local road agency shall become compliant within 6 months after receiving the notification required by this subsection. TAMC shall provide an opportunity for the noncompliant local road agency to appear before TAMC to discuss the reasons the local road agency is not compliant and ways for the local road agency to become compliant. If the local road agency is not compliant within 6 months after receiving required notification, the local road agency shall not shift funds distributed to it under this act from a County Primary Road System to a County Local Road System or from a City Major Street System to a City Local Street System, as applicable. Upon demonstration of progress toward achieving its condition goals, a local road agency may shift funds distributed to it under this act from a County Primary Road System to a County Local Road System or from a City Major Street System to a City Local Street System, as applicable. A local road agency may submit a revised asset management plan to TAMC (MCL 247.659a(14));
- TAMC shall submit this report to the Michigan Infrastructure Council, the State
  Transportation Commission, the legislature, and the transportation committees of
  the Michigan House and Michigan Senate by May 2 of each year. (MCL
  247.659a(15));

TAMC also plays a variety of roles that support and promote the asset management process. These roles include:

- Communication conduits to and from the constituent organizations, ensuring that the needs and concerns of the various stakeholder organizations are aired during TAMC deliberations, and that TAMC decisions and policies are then shared with, and when necessary, discussed with those same organizations.
- Ensuring that certain activities prescribed in the authorizing legislation are completed in accordance with that legislation (MCL 247.659a).
- Ensuring that any additional activities undertaken by the TAMC are completed within the timeframe and budget established by the TAMC, and accordance with the overall intent of the authorizing legislation.

Appendix B contains legislation related to TAMC as amended into Michigan Compiled Law.

# **Appropriation & Budget**

Once established in Michigan Compiled Law in 2002, TAMC was provided an appropriation of \$1,626,400 from the Michigan Transportation Fund (MTF). This amount remained consistent until 2017 when TAMC made a request for an additional \$250,000. The State of Michigan's Fiscal Year (FY) budgets of 2018 through 2021 provided \$1,876,400 to TAMC. The FY2022 TAMC budget will be based upon \$1,876,400 for revenues; it is assumed this budget level will remain consistent through the three years of this Strategic Work Program.

Program Area	FY22	FY23	FY24	3-Year Total
I. Data Collection &				
Regional-Metro Asset	\$1,116,400	\$1,116,400	\$1,116,400	\$3,349,200
Management				
Program				
II. Central Data	\$374,950	To be	To be	To be
Agency		determined	determined	determined
III. Training &	\$210,658	To be	To be	To be
Education Program		determined	determined	determined
(MTU-CTT)				
IV. Activities &	\$128,425	To be	To be	To be
Studies		determined	determined	determined
V. TAMC Conferences				
Printing Expenses	\$40,000	\$40,000	\$40,000	\$120,000
VI. Special Projects	\$438,263	\$0	\$0	\$274,118
Total	\$2,308,696	\$1,876,400	\$1,876,400	

#### Special Projects

In January of 2018, an additional appropriation of \$2,000,000 was provided to TAMC out of the State of Michigan's Infrastructure Fund. Under House Bill 4320 (S-3), a supplemental appropriation was given to TAMC for the purpose creating a pilot project for the collection

of inventory data and the evaluation of culverts owned by local transportation agencies within Michigan. Although this appropriation was a one-time grant for TAMC and has not been renewed in subsequent budgets, a fund balance remains from this initial allocation. For FY22, the budget includes \$274,118 to provide reimbursement for those agencies that participated in the 2018 project to complete their inventories and condition assessments.

Appendix D contains TAMC Financial & Budget Reporting.

# **Organizational Structure**

The TAMC was created to promote asset management principles and the asset management process, and the legislation designates that TAMC members are appointed by various public stakeholder organizations within the transportation community. This requires a series of well-orchestrated and coordinated efforts, carried out by a multitude of actors and organizations in both a formal and informal manner. What follows is a high-level description of the formal entities that have roles and responsibilities for administration of the TAMC, the TAMC Work Program, the various technical and contractual assistance provision and ongoing operational support staff required to perform TAMC's statutory reporting and various defined and undefined roles. These descriptions are intended to be summaries and are not an exhaustive reporting of all aspects of TAMC coordination.

### TAMC - Council

From the formal legislation that created TAMC and responsibilities it charged TAMC with completing, it can be inferred that TAMC members are expected to attend and participate in meetings of the organization, to chair and/or serve on at least one committee and/or subcommittees of the organization, and such other responsibilities as are assigned and necessary for the organization to achieve its goals (by-laws). TAMC and committee chairs are expected to work with the TAMC support staff to prepare agendas for their meetings and to arrange for speakers, exhibits, and/or presentations on topics of interest to the committee or TAMC.

Michigan Compiled Law defines the council representation and partner organizational membership. Currently, TAMC shall consist of 10 voting members approved by the MIC. The council shall include 2 members from the County Road Association, 2 members from the Michigan Municipal League, 2 members from the state planning and development regions, 1 member from the Michigan Townships Association, 1 member from the Michigan Association of Counties, and 2 members from MDOT. Nonvoting members shall include 1 person from the Central Data Storage Agency (CDSA), or office selected as the location for central data storage.

It is the responsibility of each member organization to seek out qualified individuals for nomination to the TAMC. Once the nomination is received, it must be acted upon by the MIC. The position of the CDSA shall be nonvoting and shall be for as long as the agency continues to

serve as the data storage repository. All terms for TAMC members shall be for 3 years, except for the MDOT and central data storage agency representatives.

The chairperson shall be selected from among the voting members of the council. All voting members of the TAMC are eligible to be Chairperson or Vice- chairperson of the TAMC. The Chairperson and Vice-chairperson's Terms of Office shall be three years. Officers may be reelected to additional terms by the TAMC. Terms may be consecutive. Elections for Chairperson and Vice-chairperson of the TAMC shall be held during the September TAMC meeting in the last year of the 3-year term or as needed to fill a vacant officer position. Election shall be by a majority vote of the attending voting TAMC members during a regular TAMC meeting where a quorum is present. It is the responsibility of the Chairperson to chair monthly meetings, publicly represent the TAMC and speak on its behalf. It is the responsibility of the Vice-chairperson to perform these duties in the absence of the Chairperson. If the Chairperson or Vice-chairperson fails to meet this responsibility, the voting membership of TAMC may dismiss the Chairperson or Vice-chairperson by majority vote.

# TAMC- Committees

At a minimum, each voting member shall serve on one TAMC Committee. The TAMC Chairperson shall select TAMC members for each committee. Member assignments may be reviewed and changed by the TAMC Chairperson as necessary during the Chairperson's term of office. Each committee of the TAMC shall have a Chairperson and a Vice-chairperson selected by majority vote of the voting membership of each Committee. Each committee Chairperson and Vice-chairperson shall serve a 3-year term. In the absence of the committee Chairperson, the committee Vice-chairperson shall manage the committee meetings. Any committee may include for support, technical, or other reasons; non-TAMC members as non-voting advisory participants in the committees.

The TAMC has three permanent committees as follows:

- 1. Administrative, Communications and Education (ACE Committee): Committee comprised of 3 to 5 TAMC members that advises the TAMC on matters pertaining to training, communications, education program and budget.
- 2. Data Committee: Committee comprised of 3 to 5 TAMC members that advises the TAMC on matters pertaining to data collection, quality, and analysis.
- 3. Bridge Committee: Committee comprised of 3 to 5 TAMC members that advises the TAMC on matters pertaining to application of asset management principles to bridges and the creation of guidance materials and training program.

The TAMC or the TAMC Chairperson may establish other 'ad hoc' committees as necessary for the operation of the TAMC. Such committees shall operate until the TAMC or TAMC Chairperson disbands them.

Appendix C contains the TAMC Bylaws; Appendix E includes the TAMC Member Roster, representative organizations, terms of service and committee assignments.

# Support Staff

In addition to having two seats on TAMC, MDOT is also directed to provide qualified administrative staff to support the TAMC's functioning. There are a multitude of tasks that are included in the coordination of the TAMC program. At a high level, this includes managing the TAMC work program, providing TAMC with regular updates on progress of the program and assisting in the periodic creation of new work programs and ensuring that TAMC is fulfilling statutory obligations as defined in legislation and compiled law.

Operationally, support also includes preparations with TAMC Chairperson and Committee Chairpersons for preparations for meeting agendas, scheduling, ensuring compliance with the Open Meetings Act, budgetary, contracting and accounting functions and coordinating TAMC communications with partner agencies, contracting entities as well as the general public. TAMC support staff also coordinate and manage the logistics and facility contracts for conferences, meetings and various other ad-hoc and routine activities. Support staff also ensure adherence to State of Michigan requirements and regulations pertaining to lodging, meals and travel reimbursements for TAMC members, partner organizations and local agency participants.

MDOT also participates in the annual Federal-Aid data collection effort by providing trained staff members for the rating teams. This effort also includes provision of vehicles and coordination with the respective Regional Planning Agency and Metropolitan Planning Organization (RPA/MPO) and local agencies to schedule and collect data.

Lastly, TAMC policy, MDOT contractual guidelines and Act 51 regulation establishes a series of compliance requirements that TAMC contractors and local agencies are subject to follow. Support staff at MDOT have the responsibility to ensure compliance with these Act 51 requirements. This includes reporting of the status of compliance for reporting requirements on an ongoing basis as well as act Program Manager with oversight of technical assistance, training and work program contracts with the CDSA, RPA/MPO contracts and the contracts for training, technical assistance and TAMC-sponsored conferences, meetings and workshops.

# Central Data Storage Agency (CDSA)

In addition to having one non-voting seat on TAMC, the CDSA is also responsible for providing a secure data storage facility, ensuring that the data is accessible to the TAMC, the 617 transportation agencies in the state, the 14 regional planning agencies, metropolitan planning organizations and to the greater public. The CDSA is also responsible for the coordination of any activities contracted for with TAMC such as the development, operation and maintenance of TAMC's Investment Reporting Tool (IRT), TAMC's interactive performance dashboards, interactive maps and website. Currently, the CDSA designation for TAMC is the Michigan

Department of Technology, Management and Budget's (DTMB) Center for Shared Solutions (CSS).

Appendix F contains the FY2021 TAMC Work Plan for CSS and guidance document on roles and responsibilities for CSS and MDOT.

### Technical Assistance – Regional and Metropolitan Planning (RPA/MPO)

In addition to MDOT support staff, the TAMC annually contracts with Michigan's Regional Planning Agencies and Metropolitan Planning Organizations (RPA/MPO) to provide technical assistance related to the promotion of asset management principles, roadway inventory and condition data collection and other activities within each regional boundary. The TAMC Budget contains annual allocations to the RPA/MPO, and MDOT support staff coordinates and administers the Unified Work Program for asset management. At a high level, RPA/MPO allocations provide funding for training, equipment and data collection expenses incurred by planning staff as well as local agencies that participate in TAMC program activities. RPA/MPO work programs also include provision of technical support to local agencies for asset management plan development, data sharing and assistance with compliance with TAMC and Public Act 51 reporting requirements.

Appendix J contains the Unified Work Program for RPA/MPO; Appendix D is the TAMC Budget which includes allocations to each of the RPA/MPO contracts involved with TAMC's program.

# <u>Technical Assistance – Michigan Technological University (MTU) Center for Technology & Training (CTT)</u>

As part of its function to provide staff support for TAMC, MDOT has contracted with Michigan Technological University's Center for Technology and Training (CTT) to develop and administer a training program that has the principle components to meet the needs of TAMC's audience as well as prepare participants and certify their competence to perform annual data collection activities. Due to its expertise in managing registrations for the variety of training programs hosted by CTT, MTU also has the roles of registering participants in the TAMC spring and fall conferences, managing the audio/visual tech for the conferences, and collecting and analyzing the feedback from conference participants.

MTU is the creator of the Roadsoft software that was selected by TAMC as the preferred data collection tool for PASER ratings. As the owner of the software, MTU is also responsible for training in the use of Roadsoft, tech support for any issues associated with Roadsoft, coordinating with CSS for the efficient and accurate collection and transfer of TAMC data from Roadsoft to CSS's database, developing new tools that speed and simplify the collection of TAMC data or other data of use by transportation agencies, as well as perform annual updates of the Roadsoft software.

CTT also functions as a technical advisor to TAMC providing insights into current research practices in the field of asset management, and providing explorative, applied research activities to meet the needs of TAMC programs. This includes providing technical briefings, pilot studies or professional opinion when requested.

Appendix G contains the 2021 Education Work Plan, Appendix H contains the 2021 Technical Assistance Activities Work Plan.



# **TAMC Goals & Objectives 2022-2024**

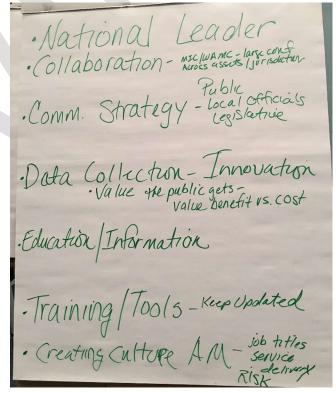
# **Strategic Sessions**

On June 6, 2018 TAMC held a Strategic Planning Session to guide TAMC's future work programs and provide direction to the various partner and contractual entities that assist TAMC in the deployment of asset management. After a thorough review of pending legislation, TAMC members revised the Mission Statement and Vision Statement (as found on page 2) as well as debated the potential impacts of the legislation on partner agencies and TAMC. TAMC also reviewed elements identified from both the Regional Asset Management Pilots project and the 21st Century Infrastructure Council Report. Lastly, TAMC also discussed assignments of action items to various TAMC Committees and partners. Outcomes of the June 6, 2018 Strategic Session included a commitment to continue and maintain the program tenants that have been deployed since 2002.

On June 5, 2019 TAMC held another Strategic Planning Session to review TAMC's goals and priorities in light of recent amendments to Public Act 51, including PA 323, PA 324 and PA 325 of 2018. As with the previous session, outcomes of the June 5, 2019 Strategic Session included a commitment to maintain the foundation of the program as well as pursuit of tasks that align TAMC's program with legislative requirements.

Another TAMC Strategic Planning Session was held on September 9, 2020. This session included review of recent amendments to Public Act 51, including Michigan House Bills 4965, House Bill 4966 and House Bill 4971, which would later become PA 152, PA 153 and PA 164 of 2020. Again, outcomes of the 2020 TAMC Strategic Session included a commitment to maintain the foundation of the program as well as pursuit of tasks that align TAMC's program with legislative requirements.

On August 4, 2021 TAMC held another Strategic Planning Session to review the program's goals and priorities, however most of the focus of this meeting was futurefocused, with most of the meeting discussing what the next 20 years of TAMC would look like. The image on the right is a list of high-



level focus areas in which TAMC members discussed future opportunities and how the program might change. Minutes from this meeting are found in Appendix K.

TAMC is committed to reviewing priorities, relevant changes in legislation and changes in the transportation landscape. To this end, TAMC will review and update the Work Program on an annual basis.

#### **TAMC Priorities**

PA 499 of 2002 created TAMC and established the structure and organizational membership. Additional legislation thereafter increased reporting requirements for local agencies as well as TAMC. TAMC has monitored these changes and has responded with Strategic Work Program updates and priorities to continue progress of the statewide asset management strategy, incorporating updates in technology, industry standards, and changes in public policy and demands for service. The following goals and objectives are the result of TAMC's engagement in these areas during 2018 through 2020.

# **TAMC Council**

Goal 1: Promote the principles of asset management statewide to enhance the productivity of investment in Michigan's roads and bridges through coordination and collaboration among state and local transportation agencies; TAMC will promote and communicate this statewide strategy with the legislature, Michigan Infrastructure Council, State Transportation Commission and other transportation committees.

### Objectives

- 1. Surveying and reporting the condition of roads and bridges by functional classification and legal system ownership categories.
- 2. Analyzing completed and planned investments in roads and bridges.
- 3. Supporting the development of appropriate asset management methodologies.
- 4. Providing education and training on the benefits of asset management principles and procedures.
- 5. Additional forecasting to create a statewide strategy built on the basis of a mix of fixes.
- 6. Coordinate/education and communication activities with the Michigan Infrastructure Council and Water Asset Management Council.
- 7. Share information around the world on asset management practices.

Goal 2: Provide fiscal and budgetary accountability for TAMC's budget appropriation as well as all other supplemental appropriations, funding grants and financial resources.

- Develop an annual budget categorized by work program activity, regional allocations for technical assistance and data collection, Central Data Storage Agency operations, contractual funding for technical assistance and activity support as well as TAMCspecific activities.
- 2. Include TAMC budget as part of annual reporting to the Michigan Infrastructure Council, State Transportation Commission and the Michigan legislature.
- 3. Report financial status of contracts and TAMC budget status on a monthly basis.
- 4. Create a consistent timeline for TAMC budget submissions and needs to the Michigan Department of Transportation.
- 5. Create a draft three-year budget plan to match the work program goals.
- 6. Review and define allocation to our regional partners across the State of Michigan.
- Goal 3: Coordination of asset management with Michigan Infrastructure Council and Water Asset Management Council and other partner organizations such as Michigan Department of Transportation, County Road Association, Michigan Municipal League, Michigan Association of Regions, Michigan Transportation Planning Association, Michigan Association of Counties and the Michigan Township Association.

# Objectives

- 1. Develop coordinated approach to condition assessment and other areas when applicable.
- 2. Communicate with Michigan Infrastructure Council and Water Asset Management Council on transparency and what needs to be coordinated.
- 3. Attend and monitor Michigan Infrastructure Council meetings.
- 4. Attend and monitor Water Asset Management Council meetings.
- 5. Participate on MIC/WAMC/TAMC X-Council (cross council).
- 6. Support TAMC partner agencies at various trainings, conferences, and workshops.
- 7. Define the process to seek procurement of TAMC assistance from outside vendors or consultants for coordinated activities.
- Goal 4: Evaluate asset management plan submissions and make recommendations regarding compliance.

- 1. Update TAMC asset management plan template accounting for all required elements per PA 325.
- 2. Provide training and workshops for use of the asset management plan template.
- 3. Establish TAMC policy for the submittal and review of asset management plans for PA 325 requirements as well as PA 338 of 2006.

- 4. Report monthly on the number and compliance status of local agency submittal of asset management plans.
- 5. Identify technology that may expedite data collection for PA 325 requirements, including the TAMC Investment Reporting Tool application.

#### **TAMC Committee Priorities**

The following goals and objectives are the result of TAMC's engagement of current and ongoing activities at the committee level during 2018 through 2021. Many of these objectives have been directed to the appropriate committee by TAMC.

#### **ACE Committee**

Goal 1: Evaluate asset management plan submissions and make recommendations regarding compliance for agencies with a minimum of 100 certified miles.

# Objectives

- 1. Recommend TAMC asset management plan template accounting for all required elements per PA 325 and make assessible to public.
- 2. Provide training and workshops for use of the asset management plan template.
- 3. Recommend TAMC policy for the submittal and review of asset management plans for PA 325 requirements as well as PA 338 of 2006.
- 4. Review monthly on the number and compliance status of local agency submittal of asset management plans.
- 5. Recommend technology that may expedite data collection for PA 325 requirements, including the TAMC Investment Reporting Tool application.
- 6. Discuss how other infrastructure assets will be considered for future data collection and asset management plan inclusion.

Goal 2: Increase awareness and improve familiarity with TAMC annual report.

- 1. Coordinate press releases and report cover letters in well-orchestrated manner to ensure maximum exposure and accessibility of TAMC members and support staff.
- 2. Provide summary reports of Michigan's road and bridge conditions by legislative district with distribution of annual report; each legislator receives both conditions for local district as well as statewide summaries found in report.
- Goal 3: Raise awareness of asset management principles; promote outstanding agency performance in the area of asset management.

### Objectives

- 1. Establish an annual schedule and develop 4 articles each year for the Local Technical Assistance Program's *The Bridge* Newsletter.
- 2. Seek nominations and highlight best practices of organizations and individuals through the TAMC Awards program; develop scoring matrices evaluate and update selection process of award recipients.
- 3. Coordinate 2 educational conferences per year; incorporate "best practice case-studies" into educational sessions for high-performing agencies to advocate their learning and methods; provide formal presentation of TAMC Award recipients at conferences and in conference materials.
- 4. Distribute press releases outlining TAMC Awards program recipients.
- 5. Explore social media platforms.
- 6. Pilot two 90-second videos.

Goal 4: Ensure TAMC's training programs and policies are appropriate and optimized for ongoing support of TAMC's data collection and reporting requirements; ensure these programs and policies are well-communicated among partnering agencies and participants.

- Continue review and update of TAMC Policy for the Collection of Roadway Surface Condition Data to accommodate technological updates, appropriateness of training certification for qualifying participants and in response to changing or challenging trends in technology or industry needs.
- 2. Provide monthly Regional Coordinator conference calls from April through December each year for communicating TAMC policies, announcements, training opportunities and provide forum for participants to raise issues and respond to inquiries.
- 3. Update and maintain TAMC website, TAMC brochure and TAMC training resources as appropriate to incorporate changes in legislation, reporting requirements, TAMC policy and procedures as well as technological advancements.
- Create a decision-tree/policy which can be utilized to determine when a request for work from the Central Data Storage Agency or other technical supporting staff can be approved at the committee level.
- 5. Create a training program for culverts and traffic signals, and/or other infrastructure assets.

# Areas of further investigation:

- TAMC Conferences
  - More collaboration and support by TAMC partner organizations would be appreciated to keep the program fresh and relevant, more involvement across state/nation/world.
  - Seek opportunities for partner organizations to have call for presentations and identify more opportunities for inclusion into TAMC events.
- TAMC Bylaws & Committee Structure
  - Explore and discuss role and procedures of technical experts for TAMC committees.
  - o Review Open Meetings Act and consideration of TAMC committee meetings.
- TAMP Policy and support staff interactions/transparency with MDOT Act 51 staff in support of Small and Medium sized agencies
  - Determine level of involvement, review, insight for Non-Public Act 325 asset management plans submitted into the TAMC Investment Reporting Tool.
  - Determine if the TAMC Investment Reporting Tool can be used for submittal of all asset management plans regardless of agency size and requirements.

### **Bridge Committee**

Goal 1: Ensure TAMC's transportation asset management plan template, policies and training programs are appropriate and optimized for ongoing support of TAMC's bridge data collection and reporting requirements; ensure these programs and policies are well-communicated among partnering agencies and participants.

- Continue review and update of TAMC Policy for the Collection of Bridge Condition
   Data to accommodate technological updates and in response to changing trends in
   technology or changes in Federal and State industry reporting standards.
- Work with TAMC to ensure TAMC Dashboards and Interactive Map applications are compatible with data structure and reporting standards of the Michigan Bridge Inventory System.
- 3. Compare and analyze bridge condition data and TAMC Investment Reporting Tool data for planned bridge project data; incorporate TAMC Investment Reporting Tool data into Michigan Department of Transportation's Bridge Forecasting System.
- 4. Review potential for bridge cost information to be included in the Act 51 Distribution and Reporting System and other applications.

- 5. Continue to review submitted transportation asset management plans and TAMC asset management plan template for consistency with Federal and State industry standards and findings from previous transportation asset management plan submittals.
- Goal 2: Continue progress of roadway culvert asset management integration building upon lessons learned from 2018 TAMC Local Agency Culvert Inventory Pilot project as well as culvert data collection efforts performed by Michigan Department of Transportation, other transportation agencies and other stakeholder organizations including Water Asset Management Council, Michigan Department of Environment, Great Lakes and Energy and Michigan Department of Natural Resources.

# Objectives

- 1. Develop data governance and standards for roadway culverts.
- 2. Develop culvert performance metrics for local agency reporting and integration into asset management plans and TAMC technological reporting.
- Establish TAMC Policy for the Collection of Culvert Condition Data to provide guidance and directives for ongoing culvert inventory updates, condition assessment, and data integration procedures.
- 4. Provide tools and training for the ongoing collection of roadway culvert inventory and condition assessment.
- 5. Incorporate culvert inventory and condition data into TAMC Dashboards and Interactive Map applications.
- 6. Review other agency's culvert information which can be incorporated into inventory for reduction in duplication of effort among Michigan Department of Environment, Great Lakes and Energy and Michigan Department of Natural Resources and Drain Commissioners, etc.

### **Data Committee**

Goal 1: Ensure TAMC's training programs, policies and technological applications are appropriate, current with most recent data and optimized for continuation of TAMC's Federal Aid, Non-Federal Aid and Inventory-Based Rating System data collection efforts; TAMC will continue collecting no less than ½ of Federal-Aid eligible system annually.

# Objectives

- 1. Continue review and update of TAMC Policy for the Collection of Roadway Surface Condition Data to accommodate technological updates.
- 2. Ensure Framework Base Map, Roadsoft and TAMC Investment Reporting Tool applications are compatible and up-to-date to accept pavement condition data.
- 3. Report on Road Data Collection progress on a monthly basis during the collection season.
- 4. Annually perform quality control assessment of pavement condition data collected by rating teams.
- 5. Develop data for costs-per-mile of data collection.
- 6. Ensure TAMC's Dashboards, Interactive Map, and Investment Reporting Tool applications are updated routinely with latest available data sets.
- 7. Identify opportunities to provide technical support and data collection resources for Michigan's smallest road-owning agencies.
- 8. Study industry examples of pavement condition data gathered through alternative processes.

Goal 2: Ensure TAMC's training programs and Investment Reporting Tool applications are appropriate and optimized for continuation of the annual investment reporting requirements as part of Act 51.

- 1. Ensure Roadsoft, MDOT's Act 51 Distribution and Reporting System and TAMC Investment Reporting Tool applications are compatible and up to date.
- 2. Monitor Investment Reporting Tool compliance and report compliance status on a monthly basis.
- 3. Perform quality checks on Investment Reporting Tool data and report on quality of information.
- 4. Update Average Project Cost data by improvement category on an annual basis.
- 5. Compare pavement condition data and Investment Reporting Tool planned road project data.
- 6. Develop an understanding of roadway asset deterioration.
- 7. Develop means to upload 3-year capital project data into the Investment Reporting Tool from electronic State Transportation Improvement Program and RPA/MPO Transportation Improvement Programs.
- 8. Develop condition forecasting tool that uses Investment Reporting Tool planned project data.
- 9. Incorporate pavement warranty data fields into Investment Reporting Tool for ongoing reporting and compliance.

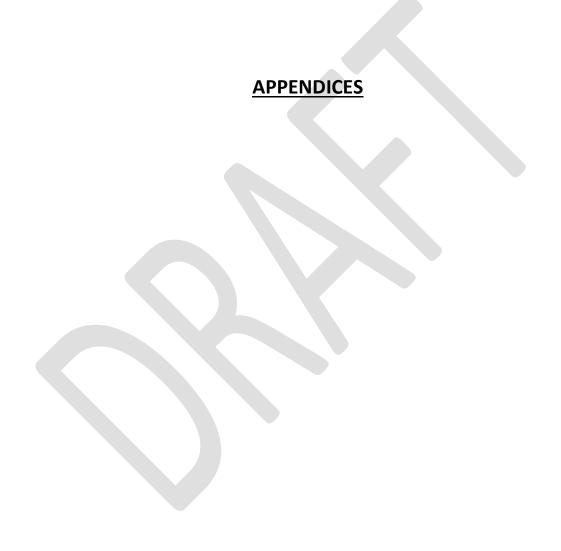
Goal 3: Develop traffic signal asset management integration building upon guidance from traffic signal subject matter experts at MDOT and other local transportation agencies.

# Objectives

- 1. Develop data governance and standards for traffic signals.
- 2. Develop traffic signal performance metrics for local agency reporting and integration into asset management plans and TAMC technological reporting.
- 3. Establish TAMC Policy for the Collection of Traffic Signal Data to provide guidance and directives for ongoing inventory updates and data integration procedures.
- 4. Provide tools and training for the ongoing collection of traffic signal inventories and condition assessments.
- 5. Incorporate traffic signal inventory data into TAMC Dashboards and Interactive Map applications.

# Areas of further investigation:

- Future of Roadway Data Collection Policy and 2021 Pilot adjustments for rating team composition and training requirements.
- Additional Dashboards for Investment Reporting Data.
- Providing Geographic layers of TAMC Data for download.



	ACRONYM GUIDE
ACE	ADMINISTRATION, COMMUNICATION, AND EDUCATION (TAMC COMMITTEE)
ACT-51	PUBLIC ACT 51 OF 1951-DEFINITION: A CLASSIFICATION SYTEM DESIGNED TO DISTRIBUTE
	MICHIGAN'S TRANSPORTATION FUNDS.
ADARS	ACT 51 DISTRIBUTION AND REPORTING SYSTEM
CDSA	CENTAL DATA STORAGE AGENCY (CURRENTLY CSS)
CRA	COUNTY ROAD ASSOCIATION (OF MICHIGAN)
CSD	CONTRACT SERVICES DIVISION (MDOT)
CSS	CENTER FOR SHARED SOLUTIONS (DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET, STATE OF MICHIGAN)
CTT	CENTER FOR TECHNOLOGY & TRAINING (MICHIGAN TECHNOLOGICAL UNIVERSITY)
DNR	DEPARTMENT OF NATURAL RESOURCES (STATE OF MICHIGAN)
DTMB	DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET (STATE OF MICHIGAN)
EGLE	DEPARTMENT OF ENVIRONMENT, GREAT LAKES & ENERGY (STATE OF MICHIGAN)
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FOD	FINANCIAL OPERATIONS DIVISION (MDOT)
FY	FISCAL YEAR
IBR	INVENTORY-BASED RATING SYSTEM FOR UNPAVED ROADWAYS
IRT	INVESTMENT REPORTING TOOL APPLICATION
LDC	LAPTOP DATA COLLECTOR APPLICATION
LTAP	LOCAL TECHNICAL ASSISTANCE PROGRAM (MICHIGAN TECHNOLOGICAL UNIVERSITY)
MAC	MICHIGAN ASSOCIATION OF COUNTIES
MAR	MICHIGAN ASSOCIATION OF REGIONS
MCL	MICHIGAN COMPILED LAW
MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION
MIC	MICHIGAN INFRASTRUCTURE COUNCIL
MML	MICHIGAN MUNICIPAL LEAGUE
MPO	METROPOLITAN PLANNING ORGANIZATION
MTA	MICHIGAN TOWNSHIPS ASSOCIATION
MTF	MICHIGAN TRANSPORTATION FUNDS
MTPA	MICHIGAN TRANSPORTATION PLANNING ASSOCIATION
MTU	MICHIGAN TECHNOLOGICAL UNIVERSITY
NBI	NATIONAL BRIDGE INVENTORY
NBIS	NATIONAL BRIDGE INSPECTION STANDARDS
NFA	NON-FEDERAL AID
NFC	NATIONAL FUNCTIONAL CLASSIFICATION
NHS	NATIONAL HIGHWAY SYSTEM
PA	PUBLIC ACT
PASER	PAVEMENT SURFACE EVALUATION AND RATING
PNFA	PAVED NON-FEDERAL AID
QA/QC	QUALITY ASSURANCE/QUALITY CONTROL
RPA	REGIONAL PLANNING AGENCY
STC	STATE TRANSPORTATION COMMISSION
STIP	STATE TRANSPORTATION IMPROVEMENT PROGRAM
TAMC	TRANSPORTATION ASSET MANAGEMENT COUNCIL
TAMP	TRANSPORTATION ASSET MANAGEMENT PLAN
TIP	TRANSPORTATION IMPROVEMENT PROGRAM
UWP	UNIFIED WORK PROGRAM
WAMC	WATER ASSET MANAGEMENT COUNCIL
X-COUNCIL	CROSS COUNCIL COMMITTEE (MIC/TAMC/WAMC)

# **Public Act 51 & TAMC Related Legislation Links**

All links below are provided by the State of Michigan Legislature's <u>Michigan Bill Search</u> application, as accessed on December 23, 2020. Public Act 51 of 1951 is the guiding legislation to all roads and highways funding and reporting requirements. The remainder of public acts related to TAMC are amendments to Public Act 51 of 1951 unless otherwise noted.

Public Act 51 of 1951 – State Trunk Line Highway System

<u>Public Act 499 of 2002</u> – <u>Creation of Transportation Asset Management Council</u>

Public Act 338 of 2006

Public Act 199 of 2007

Public Act 257 of 2010

Public Act 298 of 2012

Public Act 506 of 2012

<u>Public Act 323 of 2018</u> – Creation of <u>Michigan Infrastructure Council</u>

<u>Public Act 324 of 2018</u> – <u>Amendment to Public Act 451 of 1994 Natural Resources and Environmental</u>

<u>Protection: Creation of Water Asset Management Council</u>

**Public Act 325 of 2018** 

Public Act 152 of 2020

Public Act 153 of 2020

Public Act 164 of 2020



# Bylaws of the Michigan Transportation Asset Management Council

As Last Amended by TAMC on February 5, 2020.

- 1. Goal Statement: The Transportation Asset Management Council will develop and support excellence in managing Michigan's transportation assets by:
  - a. Advising the legislature, the State Transportation Commission, the Michigan Infrastructure Council, transportation committees, and others.
  - b. Promoting asset management principles.
  - c. Providing tools and practices for road agencies.
  - d. Collaborate and coordinate with Water Asset Management Council and other asset owners.
- 2. Membership, Chairperson, and Committees:
  - a. Membership: The Transportation Asset Management Council shall consist of ten (10) voting members appointed by the State Transportation Commission. The council shall include two (2) members from the County Road Association of Michigan, two (2) members from the Michigan Municipal League, two (2) members from the state planning and development regions, one (1) member from the Michigan Townships Association, one (1) member from the Michigan Association of Counties, and two (2) members from the Michigan Department of Transportation. Nonvoting members shall include one (1) person from the agency or office selected as the location for central data storage.
  - b. Chairperson and Vice-chairperson: The Chairperson shall be selected from among the voting members of the Transportation Asset Management Council.
    - Eligibility: All voting members of the Transportation Asset Management Council are eligible to be Chairperson or Vice-chairperson of the Transportation Asset Management Council.
    - 2. Term of Office: The Chairperson and Vice-chairperson's Terms of Office shall be three (3) years. Officers may be reelected to additional terms by the Transportation Asset Management Council; terms may be consecutive.
    - 3. Election of Officers: Elections for Chairperson and Vice-chairperson of the Transportation Asset Management Council shall be held during the September meeting in the last year of the three (3) year term or as needed to fill a vacant officer position. Election shall be by a majority vote of the attending voting Transportation Asset Management Council members during a regular Transportation Asset Management Council meeting where a quorum is present.
    - 4. Responsibility and Dismissal: It is the responsibility of the Chairperson to chair monthly meetings, publicly represent the Transportation Asset Management Council and speak on its behalf. It is the responsibility of the Vice-chairperson to perform these duties in the absence of the Chairperson. If the Chairperson or Vice-chairperson fails to meet this responsibility, the voting membership of Transportation Asset Management Council may dismiss the Chairperson or Vice-chairperson by majority vote.
  - c. Committees: At a minimum, each voting member shall serve on one (1) Transportation Asset Management Council Committee. The Chairperson shall select Transportation Asset

Management Council members for each committee at the beginning of the Chairperson's term of office. Member assignments may be reviewed and changed by the Chairperson as necessary during the Chairperson's term of office. Each committee of the Transportation Asset Management Council shall have a Chairperson and a Vice-chairperson selected by majority vote of the voting membership of each Committee. Each committee Chairperson and Vice-chairperson shall serve a three (3) year term. In the absence of the committee Chairperson, the committee Vice-chairperson shall manage the committee meetings. Any committee may include for support, technical, or other reasons; non-Transportation Asset Management Council members as non-voting advisory participants in the committees. The Transportation Asset Management Council has three permanent committees as follows:

- Administrative, Communications and Education: Committee comprised of three

   (3) to five (5) Transportation Asset Management Council members that advises the
   Transportation Asset Management Council on matters pertaining to training,
   communications, education and budget.
- 2. Data Committee: Committee comprised of three (3) to five (5) Transportation Asset Management Council members that advises the Transportation Asset Management Council on matters pertaining to data collection, quality, and analysis.
- 3. Bridge Committee: Committee comprised of three (3) to five (5) Transportation Asset Management Council members that advises the Transportation Asset Management Council on matters pertaining to application of asset management principles to bridges and the creation of guidance materials and training program.
- d. Michigan Infrastructure Council and Water Asset Management Council: The Chairperson shall represent the Transportation Asset Management Council at regular meetings of the Michigan Infrastructure Council. In the absence of the Chairperson, the Vice-chairperson shall attend Michigan Infrastructure Council meetings. The Transportation Asset Management Council Chairperson and Vice-chairperson shall also represent the Transportation Asset Management Council on any standing coordination committees of the Michigan Infrastructure Council and Water Asset Management Council.
- e. Other committees: The Chairperson may establish other 'ad hoc' committees as necessary for the operation of the Transportation Asset Management Council. Such committees shall operate until the Transportation Asset Management Council or Chairperson disbands them.
- 3. Meetings: Transportation Asset Management Council and committee meeting schedules are established at the September Transportation Asset Management Council Meeting for the following calendar year. The established schedules shall be made available to the public.
- 4. Quorum: per Michigan's Open Meetings Act, the term "Meeting" means "the convening of a public body at which a quorum is present for the purpose of deliberating toward or rendering a decision of a public policy." A quorum as it pertains to the Transportation Asset Management Council shall be defined as a majority of voting members present for a meeting during which official business is discussed and acted upon.
- 5. Membership Appointment and Term: it is the responsibility of each member organization to seek out qualified individuals for nomination to the Transportation Asset Management Council. Once the nomination is received, it must be acted upon by the State Transportation Commission. The positions for the Michigan Department of Transportation shall be permanent. The position of the central data storage agency shall be nonvoting and shall be for as long as the agency continues to serve as the data storage repository. At the end of the initial appointment, all terms shall be for

three (3) years.

- 6. Advisory Panel: The Transportation Asset Management Council may appoint a technical advisory panel whose members shall be representatives from the transportation construction associations and related transportation road interests. The Transportation Asset Management Council shall select members to the technical advisory panel from names submitted by the transportation construction associations and related transportation road interests. The technical advisory panel members shall be appointed for three (3) years. The Transportation Asset Management Council shall determine the research issues and assign projects to the technical advisory panel to assist in the development of statewide policies. The technical advisory panel's recommendations shall be advisory only and not binding on the Transportation Asset Management Council.
- 7. Staffing: The Michigan Department of Transportation shall provide qualified administrative staff and the state planning and development regions shall provide qualified technical assistance to the Transportation Asset Management Council.
  - a. Michigan Department of Transportation assigns a full-time Coordinator primarily responsible for the management and coordination of the Transportation Asset Management Council's activities including development of the three (3) year work program, budget, and annual report as required by law; provide project management of activities needed to carry out the Transportation Asset Management Council's work program; manage the on-going development and maintenance of the Transportation Asset Management Council's website and performance measure dashboards. Additional Michigan Department of Transportation staff provides administrative support to the Transportation Asset Management Council as necessary.
  - b. In addition to Michigan Department of Transportation staff, the Transportation Asset Management Council annually contracts with Michigan's Regional and Metropolitan Planning Organizations to provide technical assistance related to the promotion of asset management principles and data collection within each regional boundary.
- 8. Amendments: A two-thirds majority of Transportation Asset Management Council voting members is required to amend the Transportation Asset Management Council's bylaws. Proposed amendments in final form must be distributed to the members at the Transportation Asset Management Council meeting prior to having it on the Transportation Asset Management Council agenda as an action item.

Michigan	1	FY20 Budget		FY20 Year t	o Date	FY21 Budget		FY21 Year	r to l	Date	F	Y22 Budget		FY22 Year	to Da	ite
Transportation Asset Management Council			ndicate	es Contract Completed		_	ndicate	es Contract Complete	ed			. LL Duuget				
Wanagement council																
	ent invoice)	\$		Spent	Balance	\$		Spent		Balance		\$		Spent	Ва	alance
<ol> <li>Data Collection &amp; Regional-Metro Planning Asset Management Proga Battle Creek Area Transporation Study</li> </ol>	<b>m</b> 4QTR-21	\$ 20,500.00	\$	20,346.46 \$	153.54	\$ 20,500.00	\$	13,278.96	Ś	7,221.04	\$	20,500.00	\$		\$	20,500.00
Bay County Area Transportation Study	4QTR-21	\$ 19,900.00		18,217.13 \$		\$ 19,900.00			\$	437.45	\$		\$			19,900.00
Central Upper Peninsula Planning and Development	4QTR-21	\$ 50,000.00	\$	50,000.00 \$	-	\$ 50,000.00	\$	50,000.00	\$		\$	50,000.00	\$	-	\$	50,000.00
East Michigan Council of Governments	Nov	\$ 108,000.00		108,000.00 \$	-	\$ 108,000.00		66,038.34		41,961.66	\$		\$			102,667.79
Eastern Upper Peninsula Regional Planning & Devel.	4QTR-21	\$ 25,000.00		25,000.00 \$	-	\$ 25,000.00		12,500.37		12,499.63	\$	25,000.00				25,000.00
Genesee Lapeer Shiawasse Region V Planning Com. Grand Valley Metropolitan Council	Sept	\$ 46,000.00 \$ 24,000.00		46,000.00 \$ 24.000.00 \$		\$ 46,000.00 \$ 24,000.00		20,038.38 23,864.31	\$	25,961.62 135.69	\$	46,000.00 24,000.00	\$			46,000.00 24,000.00
Kalamazoo Area Transportation Study	Sept Sept	\$ 22,000.00	-	21,249.18 \$		\$ 22,000.00		10,046.13		11,953.87	\$		\$			22,000.00
Macatawa Area Coordinating Council	3QTR-21	\$ 19,000.00		2,357.60 \$		\$ 19,000.00		13,855.61		5,144.39	\$	19,000.00				19,000.00
Midland Area Transportation Study	4QTR-21	\$ 21,000.00	\$	21,000.00 \$	-	\$ 21,000.00	\$	21,000.00	\$	-	\$	21,000.00	\$	-	\$	21,000.00
Northeast Michigan Council of Governments	July	\$ 51,000.00		51,000.00 \$	-	\$ 51,000.00		•	\$	-	\$		\$			51,000.00
Networks Northwest		\$ 75,000.00		41,099.54 \$		\$ 75,000.00			\$	69,006.44	\$	75,000.00				75,000.00
Region 2 Planning Commission	3QTR-20	\$ 40,000.00		13,497.00 \$		\$ 40,000.00			\$	40,000.00	\$		\$			40,000.00
Saginaw Area Transportation Agency	4QTR-20	\$ 21,000.00		14,790.13 \$		\$ 21,000.00			\$	21,000.00	\$	21,000.00				21,000.00
Southcentral Michigan Planning Commission Southeast Michigan Council of Governments	Sept Sept	\$ 55,000.00 \$ 174,000.00		54,979.20 \$ 174,000.00 \$		\$ 55,000.00 \$ 174,000.00		-	\$	39,806.88	\$	55,000.00 174,000.00	\$			55,000.00 174,000.00
Southwest Michigan Planning Commission	4QTR-21	\$ 41,000.00		39,412.78 \$	1,587.22	\$ 41,000.00			\$	26,731.65	\$	41,000.00				41,000.00
Tri-County Regional Planning Commission	4QTR-21	\$ 40,000.00		40,000.00 \$		\$ 40,000.00			\$	31,542.00	\$	40,000.00				40,000.00
West Michigan Regional Planning Commission	4QTR-20	\$ 88,000.00		73,951.79 \$		\$ 88,000.00			\$	88,000.00	\$		\$			88,000.00
West Michigan Shoreline Regional Development Com.	Nov	\$ 54,000.00		53,898.70 \$		\$ 54,000.00		33,464.12			\$	54,000.00				53,730.26
Western Upper Peninsula Regional Planning & Devel.	4QTR-21	\$ 42,000.00		42,000.00 \$		\$ 42,000.00			\$	30,057.91	\$	42,000.00				42,000.00
MDOT Region Participation & State Vehicle Use	10/28/20	\$ 30,000.00		9,570.41 \$		\$ 30,000.00		-	\$	30,000.00	\$	30,000.00				30,000.00
PASER Quality Review Contract	8/25/20	\$ 50,000.00		- \$	50,000.00	\$ 50,000.00			\$	50,000.00	\$	50,000.00				50,000.00
Data Collection & Regional-Metro Progam Total		\$ 1,116,400.00	\$	944,369.92 \$	172,030.08	\$ 1,116,400.00	\$	564,403.89	\$	551,996.11	\$	1,116,400.00	\$	5,601.95	\$ 1,1	10,798.05
III. TAMC Central Data Agency (MCSS)																
Project Management	12/22/21	\$ 64,200.00	Ś	72,225.00 \$	(8,025.00)	\$ 56,580.00	Ś	45,844.73	Ś	10,735.27	\$	65,093.00	Ś	7,660.00	Ś	57,433.00
Data Support /Hardware / Software	12/22/21	\$ 37,000.00		28,675.55 \$	8,324.45	\$ 25,870.00			\$	2,632.02	\$	44,298.00				44,298.00
Application Development / Maintenance / Testing	12/22/21	\$ 166,000.00		167,217.02 \$	(1,217.02)	\$ 171,250.00	\$	174,634.38	\$	(3,384.38)	\$	202,880.00		44,678.54		58,201.46
Help Desk / Misc Support / Coordination	12/22/21	\$ 53,250.00	\$	49,634.15 \$	3,615.85	\$ 67,360.00	\$	98,289.56	\$	(30,929.56)	\$	26,679.00	\$	8,254.19	\$	18,424.81
Training	12/22/21	\$ 26,000.00		18,486.22 \$		\$ 16,170.00			\$	6,550.53	\$	14,000.00				14,000.00
Data Access / Reporting	12/22/21	\$ 28,500.00		36,500.00 \$	(-,,	\$ 37,720.00			\$	14,503.10	\$		\$			15,281.70
TAMC Central Data Agency (MCSS) Total		\$ 374,950.00	Ş	372,737.94 \$	2,212.06	\$ 374,950.00	Ş	374,843.02	Ş	106.98	\$	374,950.00	Ş	67,311.03	\$ 3	07,638.97
IV. MTU Training & Education Program Contract	12/20/21	\$ 225,000.00	\$	224,280.94 \$	719.06	\$211,391.21	\$	158,391.42	\$	52,999.79		\$210,658.15	\$	-	\$ 2	10,658.15
V. MTU Activities Program Contract	12/20/21	\$ 115,000.00	ċ		(*** 00)		^	41,555.09	Ś	87,909.72		\$128,424.93				28,424.93
				115.011.82 S	(11.82)	\$129.464.81							Ś	-	<b>S</b> 1	
	12/20/21	7 113,000.00	ş	115,011.82 \$	(11.82)	\$129,464.81	Þ	,	•	87,303.72		<b>3120,424.33</b>	\$	-	\$ 1	.20,424.93
VI. TAMC Expenses	12/20/21		ş	115,011.82 \$	(11.82)			,		87,303.72						
Fall Conference Expenses	12/10/19	\$ 10,000.00			(11.82)	\$ -	\$	-	\$	-	\$		\$	-	\$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees	12/10/19	\$ 10,000.00	\$	6,890.00			\$	-	\$	-	\$		\$ \$	- -	\$	
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference	12/10/19 12/10/19 12/10/19	\$ 10,000.00 \$ 16,890.00	\$			\$ - \$ -	\$ \$	- - -	\$			10,000.00	\$ \$ \$	: : :	\$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses	12/10/19 12/10/19 12/10/19 6/27/19	\$ 10,000.00	\$	6,890.00		\$ - \$ - \$ 10,000.00	\$ \$ \$ \$	- - - -	\$ \$ \$ \$	10,000.00	\$ \$	10,000.00	\$ \$ \$ \$	- - - -	\$ \$ \$ \$	
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00	\$ \$	6,890.00 6,781.90 \$	10,108.10	\$ - \$ -	\$ \$ \$ \$		\$ \$ \$ \$			10,000.00	\$ \$ \$	- - - -	\$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference	12/10/19 12/10/19 12/10/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ -	\$ \$ \$	6,890.00 6,781.90 \$	10,108.10	\$ - \$ - \$ 10,000.00 \$ -	\$ \$ \$ \$ \$	·	\$ \$ \$ \$ \$	10,000.00	\$	10,000.00	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00	\$ \$ \$ \$	6,890.00 6,781.90 \$ - - \$ - \$	10,108.10 10,000.00 10,000.00	\$ - \$ - \$ 10,000.00 \$ - \$ 20,000.00	\$ \$ \$ \$ \$ \$	: : : : :	\$ \$ \$ \$	10,000.00		10,000.00 - 10,000.00 - 10,000.00	\$ \$ \$ \$	- - - - - -	\$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00	\$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - - \$ - \$	10,108.10 10,000.00 10,000.00 7,953.76	\$ - \$ - \$ 10,000.00 \$ - \$ 20,000.00	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - 161.50	\$ \$ \$ \$ \$ \$	10,000.00	\$ \$	10,000.00 - 10,000.00 - 10,000.00	\$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00	\$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - - - \$ 2,046.24 \$ 8,828.14 \$	10,108.10 10,000.00 10,000.00 7,953.76 38,061.86	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02	\$ \$ \$ \$ \$ \$ \$	- - - - - 161.50	\$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - - 20,000.00 9,838.50	\$ \$ \$ <b>\$</b>	10,000.00 - 10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08	\$ \$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.) TAMC Expenses Total	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00	\$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - - - \$ 2,046.24 \$ 8,828.14 \$	10,108.10 10,000.00 10,000.00 7,953.76 38,061.86	\$ - \$ 10,000.00 \$ - \$ 20,000.00 \$ 10,000.00 \$ 40,000.00	\$ \$ \$ \$ \$ \$ \$	- - - - - 161.50	\$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 20,000.00 9,838.50 <b>39,838.50</b>	\$ \$ \$ <b>\$</b>	10,000.00 - 10,000.00 - 10,000.00 10,000.00 40,000.00	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - - 10,000.00 - 10,000.00 10,000.00 40,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00	\$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - - - \$ 2,046.24 \$ 8,828.14 \$	10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02	\$ \$ \$ \$ \$ \$ \$	- - - - - 161.50	\$ \$ \$ \$ \$ \$ \$	10,000.00 - 20,000.00 9,838.50 39,838.50 732,851.10	\$ \$ \$ <b>\$</b>	10,000.00 - 10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00	\$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - - - \$ 2,046.24 \$ 8,828.14 \$	10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34%	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02	\$ \$ \$ \$ \$ \$ \$	- - - - - 161.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 	\$ \$ \$ <b>\$</b> \$ <b>\$</b> \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00 \$ 1,876,400.00	\$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - \$ 2,046.24 \$ 8,828.14 \$ 1,665,228.76 \$	10,108.10 10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34%	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00	\$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 	\$ \$ \$ <b>\$</b> \$ <b>\$</b> \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00 1,870,433.08 1,876,400.00	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  10,000.00  10,000.00  10,000.00  40,000.00  100,433.08  100.00%
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.) TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3)	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19 3/12/20	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 9 - \$ 2,046.24 8,828.14 \$ 1,665,228.76 \$ FY20 Year 1	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date Balance	\$ - 5 \$ 10,000.00 \$ - 5 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1739,354.92 1721 Year	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 20,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance	\$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08 1,876,400.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS)	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 FY20 Budget \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 5 8,828.14 1,665,228.76 5 FY20 Year t	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 163.50 1,139,354.92 FY21 Year Spent 995.55	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 20,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45	\$ \$ \$ \$ <b>\$</b> \$	10,000.00 - 10,000.00 - 10,000.00 40,000.00 1,870,433.08 1,876,400.00  EV22 Budget \$ 69,004.45	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	FY22 Year	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 5-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19 3/12/20	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00 \$ 1,876,400.00 FY20 Budget \$ 25,000.00 \$ 55,011.46	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - \$ 2,046.24 \$ 8,828.14 \$ 1,665,228.76 \$ FY20 Year t 18,738.00 \$ 55,011.46 \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 163.50 1,139,354.92 FY21 Year Spent 995.55	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00 1,870,433.08 1,876,400.00  FY22 Budget \$ 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS)	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 FY20 Budget \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 5 8,828.14 1,665,228.76 5 FY20 Year t	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 163.50 1,139,354.92 FY21 Year Spent 995.55	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 20,000.00 9,838.50 39,838.50 732,851.10 39.14% Date Balance 69,004.45	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00 1,870,433.08 1,876,400.00  FY22 Budget \$ 69,004.45 77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTJ Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered)	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 6/27/19 3/12/20	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,878,240.00 \$ 1,876,400.00 FY20 Budget \$ 25,000.00 \$ 55,011.46	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 \$ - \$ 2,046.24 \$ 8,828.14 \$ 1,665,228.76 \$ FY20 Year 1 18,738.00 \$ 55,011.46 \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 10,000.00 1,870,433.08 1,876,400.00  FY22 Budget \$ 69,004.45 77,258.02 117.59	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 5 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 FY20 Budget \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 9 - S 2,046.24 8,828.14 1,665,228.76 5 FY20 Year 1 18,738.00 55,011.46 5 - S	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 40,000.00 1,870,433.08 1,876,400.00  FY22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	FY22 Year  Spent	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 5 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 FY20 Budget \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 8,828.14 \$ 1,665,228.76 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ - \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 10,000.00 10,000.00 1,870,433.08 1,876,400.00  FY22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 10,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 5-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest Southcentral Michigan Planning Commission	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ - \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 FY20 Budget \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 \$,8828.14 \$ 1,665,228.76 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ <b>\$</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08 1,876,400.00  EV22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 10,000.00 16,000.00 6,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	FY22 Year  Spent	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest Southcentral Michigan Planning Commission Southeast Michigan Council of Governments	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,876,400.00 \$ 1,876,400.00 \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 8,828.14 5 1,665,228.76 \$ FY20 Year t 18,738.00 55,011.46 5 - \$ - \$ - \$ - \$ 2,046.24 8,828.14 5 - \$ - \$ - \$ - \$ - \$ 2,046.24 8,828.14 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,872,206.02 \$ 1,876,400.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ <b>\$</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 - 10,000.00 40,000.00 1,870,433.08 1,876,400.00  *Y22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 10,000.00 16,000.00 33,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	FY22 Year  Spent	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conference Expenses Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest Southcentral Michigan Planning Commission Southeast Michigan Council of Governments Southwest Michigan Planning Commission	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 1,878,240.00 \$ 1,876,400.00 \$ 55,011.46 \$ 472,863.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 \$,8828.14 \$ 1,665,228.76 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ - \$ 20,000.00 \$ 10,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08 1,876,400.00  **Y22 Budget  \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 16,000.00 16,000.00 33,000.00 27,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	FY22 Year  Spent	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
Fall Conference Expenses Fall Conf. Attendence Fees + sponsorship Fees Net Fall Conference Spring Conference Spring Conference Expenses Spring Conf. Attendence Fees + sponsorship Fees Net Spring Conference Unallocated / Contingency Other Council Expenses (Member Mileage Expenses/Printing/Etc.)  TAMC Expenses Total Total Program Appropriation  VII. Special Projects with Separate Budgets  MI Local Agency Culvert Inventory Pilot (FY18 HB4320 S-3) Central Data Agency (MCSS) MTU Culvert Project Activities & Training Program TAMC Administration & Contingency (Unencumbered) Central Upper Peninsula Planning and Development East Michigan Council of Governments Northeast Michigan Council of Governments Networks Northwest Southventral Michigan Planning Commission Southeast Michigan Council of Governments Southwest Michigan Council of Governments Southwest Michigan Planning Commission Tri-County Regional Planning Commission	12/10/19 12/10/19 12/10/19 6/27/19 6/27/19 3/12/20 9/16/20 12/20/21 2/25/21	\$ 10,000.00 \$ 16,890.00 \$ 10,000.00 \$ 10,000.00 \$ 10,000.00 \$ 46,890.00 \$ 1,876,400.00 \$ 25,000.00 \$ 55,011.46 \$ 472,863.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,890.00 6,781.90 5 - \$ 2,046.24 8,828.14 5 1,665,228.76 \$ FY20 Year t 18,738.00 55,011.46 5 - \$ - \$ - \$ - \$ 2,046.24 8,828.14 5 - \$ - \$ - \$ - \$ - \$ 2,046.24 8,828.14 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	10,108.10  10,000.00 10,000.00 7,953.76 38,061.86 213,011.24 11.34% o Date  Balance 6,262.00	\$ 10,000.00 \$ 20,000.00 \$ 10,000.00 \$ 40,000.00 \$ 1,872,206.02 \$ 1,876,400.00 FY21 Budget \$ 70,000.00 \$ 135,007.92 \$ 274,117.59 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	161.50 161.50 1,139,354.92 FY21 Year Spent 995.55 57,749.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00  20,000.00  9,838.50  39,838.50  39,838.50  39,14%  Date  Balance  69,004.45  77,258.02	\$ \$ \$ \$ <b>\$</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00 - 10,000.00 10,000.00 40,000.00 1,870,433.08 1,876,400.00  FY22 Budget \$ 69,004.45 77,258.02 117.59 24,000.00 42,000.00 10,000.00 16,000.00 33,000.00 34,000.00 34,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	FY22 Year  Spent	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000.00
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#### Notes:

TAMC voted to extend service dates of FY20 contracts with Regional-Metro Planning to expire on 9-30-21; the contract for PASER Quality Review has been extended to 9-30-21

TAMC voted to extend service date of FY21 contracts with Regional-Metro Planning to expire on 9-30-22; TAMC voted to move the balance of unspent Mi Local Agency Culvert Inventory Pilot funds from FY18 into FY22's Special Projects Program

86.66%

# Transportation Asset Management Council 2022 Roster and Committee Assignments

TAMC Current Members		Term Status			Committee Assignments				
Member Name	Member Agency	Begin	End	Member Since	ACE	Bridge	Data	Michigan Infrastructure Council	
Bradshaw, Derek	MAR	Apr - 19	May - 22	May -16	Х				
Buck, Ryan	MTPA	Jan - 21	Dec - 22	Jan -21	Х		Х		
Johnson, Joanna, Chair	CRA	Apr - 19	May - 22	Oct - 13				X (non voting)	
Jones, Kelly	MAC	Nov - 21	Sept - 22	Nov - 21		Х			
McEntee, Bill, Vice-Chair	CRA	Dec - 20	Dec - 23	Oct - 02			Х		
Mekjian, Gary	MML	Jul - 20	Aug - 23	Mar - 17	Х				
Slattery, Bob	MML	Oct - 19	Sep - 22	Jan - 05			Х		
Surber, Rob (non-voting)	MCSS	N/A	N/A	Oct - 03	Х		Х		
Tubbs, Jennifer	MTA	Dec - 19	Dec - 22	Jan - 11			Х		
White, Todd	MDOT	N/A	N/A	Jan - 19	Х	·			
Wieferich, Brad	MDOT	N/A	N/A	Jan - 16		Х			

Non-TAMC Members with TAMC Committee Assignments									
Member Name	Member Agency	ACE	Bridge	Data					
Alan Halbeisen	American Council of Engineering Companies		Х						
Rebecca Curtis	Michigan Department of Transportation		Х						
Keith Cooper	Michigan Department of Transportation		Х						
Wayne Harrall	County Road Association of Michigan		Х						
Brian Vilmont	Subject Matter Expert		Х						

# **TAMC Ad-hoc & Sub-committees**

# **TAMC Conference Planning Committee**

J. Johnson, B. Slattery, R. Buck, Ed Hug (SEMCOG), Tim Colling (MTU-CTT/LTAP)

# **MIC-WAMC-TAMC X-Council Group**

John Wiess (MIC Chair-GVMC), Erin Kuhn (MIC Vice Chair-WMSRDC) Larry Steckelberg (MIC-Treasury), Joanna Johnson (TAMC Chair-Kalamazoo Co.), Bill McEntee (TAMC Vice Chair), Roger Belknap (TAMC-MDOT), Sue McCormick (WAMC Chair-Great Lakes Water Authority) Cameron Van Wyngarden (Kent County), Beth Lounds (WAMC-EGLE)

# **TAMC Center For Shared Solutions Work Program**

FY22 - CSS Budget Status FY22 as of 12/10/2021

<u>Notes</u>

Identified Budget \$ 374,950.00

**Expenditures** 

 Staff Time
 \$ 67,311.03

 HW/SW
 \$ 

ETL Processing (\$4k/month, to be

Misc Expenses (AT&T) \$0.00 billed Nov/Dec)

Total Expenditures to Date \$ 67,311.03

Remaining Budget

As of PPE noted above \$ 307,638.97

**Approximate Remaining Hours** 

As of PPE noted above 3,076.39 estimated at \$100/hr

Detailed CSS Expenditures	Actual Spend (Manual Entry)	•	Remaining Balance	% Spent
Project Mgmt	\$7,660.00	\$65,093.00	\$ 57,433.00	12%
Data Support	\$0.00	\$44,298.00	\$ 44,298.00	0%
Application Development / Maintenance / Testing	\$44,678.54	\$202,880.00	\$ 158,201.46	22%
Help Desk / Misc Support / Coordination	\$8,254.19	\$26,679.00	\$ 18,424.81	31%
Training	\$0.00	\$14,000.00	\$ 14,000.00	0%
Data Access / Reporting	\$6,718.30	\$22,000.00	\$ 15,281.70	31%
*These amounts are estimates based on S	SIGMA Activity Reporting by Staff			
Total	\$67,311.03	\$374,950.00	\$307,638.97	18%

#### Tasks CSS has been assigned by TAMC:

Additional application upgrades – the ADARS people are handling this.

STIP integration

MGF Portal

Signal Inventory

Technology Refresh - Job Script is going to be unsupported soon and CSS will need to modify this and make changes to website

ADA Review and Usability Testing has taken a lot of hours

Administrative Support - Preparation of Reports, etc.

Provide eight (8) training webinars

**Dashboard Maintenance** 

**Culvert Work** 

**Proposal Title:** 

2022 Transportation Asset

Management Council Education

Program Work Plan

**Submitted To:** 

Roger Belknap

Bureau of Transportation Planning Michigan Department of Transportation belknapr@michigan.gov

**Principal Investigator:** 

Tim Colling, PhD, PE

Director – Center for Technology & Training 1400 Townsend Drive - 309 Dillman Hall Houghton, MI 49931 tkcollin@mtu.edu 906-487-2102

**Co-Principal Investigators:** 

Pete Torola, PE Research Engineer II

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Chris Gilbertson PhD, PE

Associate Director – Center for Technology &

Training

cggilber@mtu.edu

**Contracting Authority:** 

Kelly Kallio

**Director of Government Sponsored Programs** 

Michigan Technological University

1400 Townsend Drive

Houghton, MI 49931

(906) 487-2226

(906) 487-2245 fax

rsch@mtu.edu

**Date Submitted:** 

November 18, 2021





# **Sponsored Programs Office**

Lakeshore Center, 3<sup>rd</sup> Floor 1400 Townsend Drive Houghton, Michigan 49931-1295 906-487-2226 • Fax 906-487-2245

November 18, 2021

Via e-mail: belknapr@michigan.gov

Roger Belknap Michigan Department of Transportation Bureau of Transportation Planning P.O. Box 30050 Lansing, MI 48909

RE: Michigan Tech Proposal #2111077, entitled, "2022 Transportation Asset Management Council Education Program," directed by Dr. Timothy Colling.

Dear Mr. Belknap,

Michigan Technological University is pleased to submit the attached proposal for your review and consideration.

If you have any technical questions, please contact Dr. Colling at (906) 487-2102 or by email at <a href="mailto:tkcollin@mtu.edu">tkcollin@mtu.edu</a>. For all other questions, please contact Jennifer Bukovich, Sr. Sponsored Programs Analyst, at (906) 487-2226 or by e-mail at sponsored-programs-l@mtu.edu.

Sincerely,

Kelly M. Kallio Director of Government Sponsored Programs

KMK/jb

Attachments

cc: T. Colling

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# 1.0 INTRODUCTION

The Michigan Transportation Asset Management Council (TAMC) began delivering its education program and providing technical services in 2004. Since that time, Michigan Technological University has assisted with the TAMC Education Program and continues to be a logical choice for assisting with this program because of its Center for Technology & Training (CTT). The CTT is part of the Department of Civil, Environmental, and Geospatial Engineering (CEGE) and is located on Michigan Technological University's campus, which offers a wide array of resources for this project. The CTT houses various state- and federal-funded programs. For example, CTT projects funded by the Michigan Department of Transportation (MDOT) include the Michigan Local Technical Assistance Program (LTAP), Roadsoft, Michigan Engineer's Resource Library (MERL), and Michigan Local Bridge Load Rating and Inspection Support and Technology Transfer programs. Additionally, the CTT houses the federally-funded Environmental Protection Agency's Region 5 environmental finance center—the Great Lake Environmental Infrastructure Center (GLEIC). This array of programs economizes upon professional, development, and support staff to make project delivery cost effective and time efficient. The CTT focuses its efforts specifically on projects related to local government agencies and transportation.

In 2014, the State of Michigan required continuing education hours (CEH) for professional engineers to maintain their licenses. As an education institution, the Michigan LTAP is in the position to provide CEH for professional engineers. Alongside this ability, the Michigan LTAP can encourage the appropriate TAMC classes as a means for maintaining licensure.

One of the prime challenges of effectively working with the over 600 local agencies in Michigan is keeping accurate contact information. The ability of the Michigan LTAP to contact local agency staff through e-mail, phone, and direct mail can provide a major benefit to programs that are targeted at Michigan's local agencies, like TAMC's training efforts. The Michigan LTAP maintains a state-of-the-art contact and event management database, which makes advertising and participant registration for local agency training events a very simple, cost-effective process. In addition, because LTAP is a nationally recognized program working to educate local agencies, events advertised through the Michigan LTAP can take advantage of state and national agreements between partner organizations—such as County Road Association (CRA) of Michigan, National Association of County Engineers (NACE), National Association of Counties (NACO), Michigan Township Association (MTA), American Council of Engineering Companies (ACEC), and Michigan Municipal League (MML)—for access to their contact databases. These agreements allow the Michigan LTAP access to these partner organization mail lists at no cost. Access to these same mail lists outside of LTAP partner organization agreements can have a substantial cost, sometimes as high as \$0.10 to \$0.20 per contact.

Events that are co-sponsored with the Michigan LTAP benefit by utilizing the wealth of local agency contact information that is stored in the Michigan LTAP contact and event management system and from the no-cost access to Michigan LTAP partner organization mail lists. They also benefit by taking advantage of the infrastructure that the Michigan LTAP has for registering and invoicing participants, event tracking, and training records retention. By not duplicating these efforts, the arrangement results in an economy of scale through cooperation among programs that educate local agency transportation staff.

Since its inception, the TAMC training program has been and continues to be coordinated as a co-sponsored training event with the Michigan LTAP.

# 2.0 TAMC WORK PLAN GUIDELINES

The tasks for this proposal were identified from educational priorities outlined by TAMC in the *TAMC Strategic Work Program for 2021-2023* and are referenced to the appropriate items in the most recent version of that document.

The current training work plan is proposed as a mix of web-based and in-person events, however should Covid-19 restrictions preclude in-person training, or staffing shortages limit the availability of event venues, the events will be converted to the appropriate web-based format and offered as they were offered in 2021.

# 3.0 WORK PLAN

This work plan and budget is for the period beginning January 1, 2022 and ending December 31, 2022. The project total is approximately \$210,658. A detailed cost estimate is provided in Appendix A.

- Task 1: Assist in Coordinating the Michigan Transportation Asset Management Conferences
- Task 2: Conduct Michigan Compliance Plan Webinar and Associated Technical Support
- Task 3: Conduct Introduction to Transportation Asset Management for Local Officials and Gravel Basics for Local Officials Training
- Task 4: Conduct Michigan Transportation Asset Management Council PASER Training
- Task 5: Conduct Inventory Based Rating™ Training
- Task 6: Conduct Michigan Bridge Asset Management Workshop
- Task 7: Conduct Workshop on Creating Pavement Asset Management Plans
- Task 8: Project Management and Reporting

A nominal registration fee will be assessed to participants for attending training events delivered under this program consistent with Michigan LTAP policy. Registering and failing to show at an event per Michigan LTAP cancelation policy will result in a fee for participants. Registration fees are calculated to break even for on-site expenses, which include consumables that participants use or take with them (such as facility rental, webinar and phone line expenses, food and refreshments, handouts, and rental of audio-visual equipment). Registration fees help to offset the load on the program for on-site activities. The absence of a registration fee (i.e., free training) has been shown to increase no-shows and decrease attendance at training programs because it is assumed that "free" training has some other profit motive and requires no commitment on the part of the participant.

Participants in training events offered under this program will be issued certificates of completion for continuing education hours (CEH) required for maintaining a Michigan professional engineer license where applicable. Every attempt will be made to ensure that trainings provided in this program are eligible for CEH credit for attendees.

# 3.1 Task 1- Assist in Coordinating the Michigan Transportation Asset Management Conferences

ACE Committee Goal 3, Objective 3: Educational Conferences

CTT staff will participate in organizing both conferences, including participation in organization meetings, distribution of promotional material, handling of participant registration, printing of folder handouts, active facilitation of the conferences, and provision of on-site audiovisual and logistical support. CTT staff will also record audio and screen captures of presentations, which will be built into a format that can be streamed over the web.

CTT staff will collect the registration fee set by TAMC, mail invoices, and return collected fees back to TAMC to defray on-site and facility expenses.

# 3.2 Task 2– Conduct Michigan Compliance Plan Webinar and Associated Technical Support

Full Council Goal 1, Objective 3: Supporting the development of asset management methodologies.

This task consists of presenting four webinar sessions on the Michigan Asset Management Compliance plan. This webinar assists local agencies with completing their statutorily required asset management plans using TAMC's templates. Following the webinars CTT will plan to

provide technical assistance to local agencies in completing their plan. Priority will be given to local agencies with the earliest plan due dates.

The currently planned events are:
Conduct two, three-hour webinars spring/summer 2022
Conduct two, three-hour webinars September 2022

# 3.3 Task 3– Conduct Introduction to Transportation Asset Management for Local Officials and Gravel Road Basics for Local Officials Training

Full Council Goal 1, Objective 3: Supporting the development of asset management methodologies

This task includes presentation of five sessions of either Asset Management for Local Officials which has been offered for several years running and focuses on management of paved roads, or Gravel Roads Basics for Local Officials, which was developed and piloted in 2018 and focuses on unpaved roads. The five sessions will be offered in any combination of these two classes that local agencies request.

Historically TAMC local elected officials training has been offered at a local agency office, with that agency offering to "host" the event. Hosted training events typically target the elected officials in the immediate jurisdictions. Hosted training events will be delivered during morning, afternoon, evening, or virtually as the site's host agency expresses interest. In addition to hosted sessions, several "open enrollment" sessions will be planned that are not associated with a host agency. Open enrollment events will be advertised to all elected officials statewide.

This budget includes facility costs (if any), handouts, participant registration, CTT instructor time, and travel costs. This budget does not include any reimbursement for participants, RPO coordinators, TAMC members, or TAMC staff. Host agencies are responsible for break refreshments.

The currently planned events are:

Conduct five workshop sessions at approximately three-hours each.

# 3.4 Task 4 – Conduct TAMC PASER Training

Full Council Goal 1, Objective 1: Surveying and reporting the condition of roads and bridges

The presentation material will be updated to reflect data collected in 2021, quality review rating results, and any changes in legislation and TAMC policies. Training will also be further

adapted to the use of audience response systems (I-Clickers) based on the continued success of the usage of this technology. This technology was found to engage attendees, provide instant and accurate feedback, and produce data that can be used to further assess training techniques.

The 2021 training sessions were conducted virtually and they were received very well by the attendees. The intended delivery mode for the 2022 training sessions will be a mix of virtual and on-site training sessions. It may be difficult to locate a venue for the on-site sessions; however, the goal is to have two or three sessions distributed throughout the lower peninsula and have one in the upper peninsula.

Training dates will be coordinated with TAMC's data collection start date. TAMC needs to notify the CTT of any changes in its collection training requirements and policy by December 1, 2021 due to the long timeline to secure training facilities and to notify attendees of the new requirements. It is otherwise assumed that start dates and training policy will remain the same as the last approved start dates and policy. It is possible to switch on-site events for remote events to meet the TAMC requirements of a new or modified collection policy, however, cancelations of scheduled on-site events may result in facility cancellation fees which are the responsibility of the project.

This task includes facility costs (if any), printing and distribution of handouts, purchase of PASER Manuals, participant registration, CTT instructor time, and travel costs. This task does not include any reimbursement for participants, RPO coordinators, TAMC members, or TAMC staff.

This task includes the distribution of the Local Agency Asset Management Survey, which will be delivered in its current format to all local agency participants at the on-site and virtual PASER and Inventory Based Rating™ training sessions.

This task is budgeted for traditional on-site delivery of PASER training in accordance with TAMC's historical collection policy and training schedule. However, it is recommended that TAMC pursue a mixed mode approach next year to further investigate learning preferences of the audience.

CTT would recommend the following mixed mode delivery should TAMC change its collection and training policy:

## **Web Delivered PASER Training:**

Conduct three PASER webinar series (3 consecutive days at 2 hours each day) covering all aspects of PASER training. This series would be very similar to the web-based training that was offered as a pilot in 2021.

#### In Person Delivered PASER Training:

Conduct four half-day on-site PASER training sessions in locations that minimize the drive time for participants that want to attend in person. Tentatively this could include the Detroit Metro area, Grand Rapids area, Gaylord or other Northern Lower Peninsula location and one Central Upper Peninsula location

#### **RPO and MPO PASER Collection Mechanics:**

Conduct one, two-hour webinar for planning organizations on using the Roadsoft data process.

# 3.5 Task 5 – Conduct Inventory Based Rating™ Training

Full Council Goal 1, Objective 1: Surveying and reporting the condition of roads and bridges.

The Inventory Based Rating™ (IBR) system for unpaved roads was developed in 2015 at the request of the TAMC. In 2016, the tools in Roadsoft were released to allow agencies to collect and analyze unpaved road condition data efficiently. In 2017, the TAMC adopted a data collection policy, which included mandatory collection of the IBR data for unpaved roads on the federal aid eligible road system that took effect in 2018. In order to collect this data, it will be necessary to train raters who are part of a collection effort that consists of gravel roads.

This task will update and deliver training that will allow local agencies to make consistent use of the tools and systems that TAMC has developed over the years for unpaved roads and will allow them to collect data for their own use and for reporting to TAMC.

The currently planned events are:

Update and conduct three, one-hour webinars on use of the IBR system for rating unpaved roads.

# 3.6 Task 6 – Conduct Michigan Bridge Asset Management Training Series

Full Council Goal 3, Objective 2: Provide training for asset management template.

The Bridge Asset Management Training Series includes a two-part webinar series (each two-hours long) on the principles of bridge asset management and a four-part virtual workshop series (two-hour sessions with up to 30 minutes of instruction followed by time for questions while working through the process) that provide participants with a true hands-on approach. The workshop was piloted in a virtual format out of necessity in 2020 but that format proved to be an effective approach for this training as it allows the participants direct access to training and technical assistance while being surrounded by all the information needed to develop their asset management plans. Participants no longer step through creating their asset management

plans only to have to redo large portions due to leaving data back at their offices; instead, the virtual workshop enables them to have access to all their data during the training event, better guaranteeing that they will produce a draft asset management plan at the conclusion of the training. The virtual workshop is spread out over four two-hour sessions to allow agencies time to create their content before the class moves on to the next step in the process.

This task will provide time and expenses for a CTT instructor to present the training (two introductory webinars and the four-part virtual workshop series) on two occasions. This task does not include a budget for reimbursement for participants, RPO coordinators, TAMC members, or TAMC staff, or for any revision, editing, or enhancements to handouts or presentation material.

#### The currently planned events are:

Conduct two offerings of the complete training series (a two-part introductory webinar and a four-part virtual workshop).

# **3.7 Task 7: Conduct Workshop on Creating Pavement Asset Management Plans** *Full Council Goal 3, Objective 2: Provide training for asset management template.*

This task consists of presenting four full-day sessions of the Pavement Asset Management Plan Workshop and two, two-hour webinars on how to define their network in preparation for the Pavement Asset Management Plan Workshop. The Pavement Asset Management Plan Workshop was developed and piloted in 2017. Public Act 325 of 2018 makes asset management plans compulsory. Asset management plans are positive signs of implementation of asset management principles at an agency level and are considered a best practice.

This task will provide time and expenses for CTT instructors to present the webinars and workshops and update the training materials from feedback received by participants. This task also provides technical support for local agencies that have completed the workshop while working with the data-parsing tools developed for this workshop.

## The currently planned events are:

Conduct two offerings of the complete training series (a two-part virtual workshop followed by one or two half day working sessions). One of the series may also be offered in person should student need dictate.

# 3.8 Task 8: Project Management & Reporting

Full Council Goal 2: Provide fiscal and budgetary accountability for TAMC. (see Appendix A).

This effort covers all management of the project, project reporting, project-specific interaction with Michigan Tech administration, and relations with the sponsor.

# **Monthly Reports**

Monthly progress reports will include a list of trainings conducted (date, location) and an estimate of percent completion by task. Estimates of percent complete are based on aggregate hours worked—not based on budget expended—so these estimates are not intended to be used for auditing invoices by the sponsor.

# **Quarterly Reports**

Quarterly progress reports will include trainings conducted (date, location), a cumulative list of training participants, and an estimate of percent completion by task (these estimates will not be used for auditing invoices). Quarterly reports will be submitted in place of a monthly report by the last day of the month following the end of the calendar quarter.

#### **Annual Training Report**

At the end of each calendar year, CTT staff will compile a comprehensive report that will summarize the performance of all TAMC training events. The report will include historical attendance figures as compared to the current year, spatial summary maps of attendees for the TAM conferences, and feedback received from participant evaluations.

# **Annual Survey of Local Agency Asset Management Implementation Report**

Following the completion of PASER training, CTT staff will compile a comprehensive training report that will summarize the results of the Local Agency Asset Management Survey collected during the annual PASER and IBR trainings and will compare current and historical results.

# **4.0 KEY PERSONNEL**

Tim Colling, PhD, PE, Director – PI
Pete Torola, PE, Research Engineer II – Co-PI
Chris Gilbertson, PhD, PE, Associate Director – Co-PI

# Names of Employees and Positions for this Service

Allison Berryman, Sr. Business/Training Support Specialist Chris Codere, Sr. Project Manager, Training & Operations Jacob Coulson, Programmer/IT Specialist Cynthia Elder, Workshop Coordinator Zach Fredin, PE, Research Engineer I Victoria Sage, MS, Technical Writer

# **APPENDIX A: BUDGET AND COST DERIVATION MDOT FORM 5101A-1**

The signed MDOT Priced Proposal is attached to this proposal as a separate document.

# **APPENDIX B: PAYROLL VERIFICATION**



# **PAYROLL VERIFICATION**

# Michigan Department of Transportation

"2022 Transportation Asset Management Council Technical Education Program"

Principal Investigator: Timothy Colling

Personnel	Current Hourly/Annual Rate:
Timothy Colling	\$ 69.25 / \$144,033.25
Allison Berryman	\$ 24.60 / \$ 51,162.30
Christine Codere	\$ 37.59 / \$ 78,195.54
Jacob Coulson	\$ 24.01 / \$ 49,950.00
Cynthia Elder	\$ 20.19 / \$ 42,000.00
Zachary Fredin	\$ 33.36 / \$ 69,390.60
Christopher Gilbertson	\$ 51.28 / \$106,664.00
Victoria Sage	\$ 30.19 / \$ 31,397.60
Peter Torola	\$ 40.03 / \$ 83,268.64

Name Susan McDaniel

Title and Department Office Assistant, Payroll Services

Michigan Technological University
214 Lakeshore Center | 1400 Townsend Drive, Houghton, Michigan 49931-1295
906-487-2280 | f. 906-487-3220 | mtu.edu/hr

Date 11/18/2021

Michigan Departmen
of Transportation
5101 (01.08.19)

# PRICED PROPOSAL COVER SHEET

Page 1 of 1

This form replaces a traditional cover letter, and must have a signature by an authorized legal signer. This form is required for all priced proposals, and shall be the very first page(s). This priced proposal is a binding document and no further Consultant signature(s) will be required if an authorization is issued, rather than a contract.

This form shall be completed by each consultant that has a derivation of cost sheet as part of this priced proposal. Traditional cover letters are not required, but may be added after this Priced Proposal Cover Sheet(s).

	. , ,						
	PROJECT IN	NFORMATION					
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZ	ATION NUMBER:				
CS - JN							
PROJECT DESCRIPTION:							
2022 Transpo	rtation Asset Manag	ement Council Ed	ucation Program				
BASIS FOR REIMBURSEMENT AND METHOD Fee, Loaded Hourly Rate, Unit Price, Lump Sum basis for reimbursement and method of paymen	n, and Milestones) Wher	n applicable, list ALL C	onsultant(s) performing w				
Actual Cost (AC)			MTU				
PREQUALIFICATION CLASSIFICATION(S) (W which they will be working. Use current MDOT of TAMC Education Program Activities				d all classification(s) in			
	PRIME CONSULT	TANT INFORMATION					
LEGAL BUSINESS NAME:		FEDERAL ID NUMBER: (Must match prequalification   ROLE: (Prime, Tier 1, Tier					
Michigan Technological Ur	niversity	386	Prime Firm				
COMPANY ADDRESS:		CITY:	STATE:	ZIP CODE:			
1400 Townsend Dr.		Houghton	MI	49931			
EMAIL (AUTHORIZED CONTRACT SIGNER):	PHONE NO.:		EMAIL (FOR SIGNED CO	NTRACT DISTRIBUTION):			
rsch@mtu.edu		64872226 rsch@mtu.edu					
By signature on this form, the consultant agr	-	ovided in the consult	ant priced proposal doe	s not contradict the			
scope of services or violate the contract term							
AUTHORIZED LEGAL SIGNER: (Printed Name - Title)	DIGITAL SIGNATURE AND	DATE:					
Kelly Kallio Director, Government Sponsored Programs							

Michigan Department of Transportation 5102 (07/19)

# DOCUMENT OF CHANGES TO THE MDOT SCOPE OF SERVICES

Page 1 of 1

This form is for use during the contract approval process and shall be attached anywhere the MDOT Scope of Services is used, such as in a contract exhibit. The MDOT Project Manager (PM) shall complete this form to document any changes (or verify no change) to an MDOT Scope of Service previously used for advertisement and for consultant selection that has been changed through, for example, the contract negotiation process or the scope verification meeting. This form is not required when a PM is requesting additional services through a revision or amendment to an agreement.

PROJECT INFORMATION										
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZATION NUMBER:								
CS - JN		0								
PRIME CONSULTANT NAME:		PROJECT DESCRIPTION:								
Michigan Technological Un	niversity	2022 Transportation Asset Management Council Educatio Program								
Box A.		Box B. (Select all that apply):								
No changes have been made.										
		Changes include a major adjustment in the project limits.								
If you selected one of the following, pleas	se complete Box B.	Changes do not include a major adjustment in the project limits.								
Changes have been made - pages are at	tached	Changes affect the engineer's estimate.								
Changes have been made - pages are no	ot attached	Changes do not affect the engineer's estimate.								
For Construction Engineering projects, an Expectation	ns Meeting was held with th	e Consultant as required by the MDOT Construction DATE:								
Manual. This meeting was held on the following date:		e Consultant as required by the INDOT Constitution								
LIST SPECIFIC ADDITIONS, DELETIONS, AND		MDOT SCORE OF SERVICES								
Land Control of the c										
I certify that all of the above additions, deletions as amended.	ns, and/or changes hav	e been incorporated within the advertised MDOT Scope of Services,								
AUTHORIZED LEGAL SIGNER: (Printed Name - Title)	DIGITAL SIGNATURE AND	DATE:								
Kelly Kallio										
Kelly Kallio Director, Government Sponsored										
Programs										
MDOT PROJECT MANAGER:	DIGITAL SIGNATURE AND	DATE:								
Roger Belknap										

Michigan Department of Transportation 5108 (01.08.19)

# **CERTIFICATION OF OVERHEAD COST RATE**

Page 1 of 1

- This Certification is required per U.S. Department of Transportation, Federal Highway Administration (FHWA) Order 4470.1A, and dated October 27, 2010. FHWA has issued this new policy to be **effective January 1, 2011**, requiring consultants provide certification that costs used to establish overhead cost rates for Federal-aid engineering and design related services contracts do not include any costs which are expressly unallowable; and that the overhead cost rate was established only with allowable costs.
- This certification is to provide assurance that the overhead costs rate was calculated in accordance with the applicable cost principles contained in the Federal Acquisition Regulations (FAR) of Title 48, Code of Federal Regulations (CFR) Part 31.
- This form shall be completed and submitted by the prime consultant and each subconsultant (first and second tier subconsultant(s)) that have a derivation of cost sheet as part of this priced proposal where an overhead rate was proposed. Please note that the Certifying Official is defined as the firm's Executive (President, Vice President or equivalent) of Chief Financial Officer.

as the firm's Executive (President, Vice Preside	nt or equivalent) of Chie	ef Financial Officer.				
	PROJECT II	NFORMATION				
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZ	ATION NUMBER:			
CS - JN						
PROJECT DESCRIPTION:						
2022 Transpor	rtation Asset Manag	gement Council Edu	ucation Program			
	DECLARATION C	OF CERTIFICATION				
OVERHEAD COST RATE:				35.75%		
DATE MOOT ACCEPTED OVERHEAD COST	RATE:			4/8/2021		
FISCAL YEAR COVERED FOR RATE CALCU	LATION:	7/1/2021	to	6/30/2024		
Regulation (FAR) of title 48, Code of Federal R  2.) This overhead cost rate does not include an  Has the firm been approved to use the SAFE that the Safe Harbor Rate will be used for th  All known material transactions or events th have been disclosed. All supplied wage rate established by 48 CFR 31.201-3.	y costs which are express HARBOR INDIRECT Color the agreement of the agreement of the agreement of the color that have occurred affects	ssly unallowable under to COST RATE of 110% wat? cting the firm's owners	rith the understanding ship, organization and c	N overhead cost rates		
established by 46 CFR 31.201-3.	CONCLUTANT	T INFORMATION				
LEGAL BUSINESS NAME:	CONSULTANT		Must match prequalification file)	ROLE: (Prime/Tier 1/Tier 2)		
Michigan Technological U	niversity			Prime Firm		
COMPANY ADDRESS:	liversity	CITY:	005955   STATE:	ZIP CODE:		
1400 Townsend Dr	2	Houghton	МІ	49931		
EMAIL (AUTHORIZED CONTRACT SIGNER):	PHONE NO.:	3.10 th	EMAIL (FOR SIGNED CO	NTRACT DISTRIBUTION):		
rsch@mtu.edu	9064	64872226 rsch@mtu.edu				
By signature on this form, the consultant ag scope of services or violate the contract term		provided in the consul	tant priced proposal do	es not contradict the		
CERTIFYING OFFICIAL: (Printed Name - Title)	DIGITAL SIGNATURE OF	CERTIFYING OFFICIAL AN	ID DATE:			
Sincolor, Kelly Kallio						
Programs	1					

Michigan Department
of Transportation
5101A-1 (01.08.19)

Michigan Technological University

TOTAL COSTS

Firm Role Key: P = Prime Firm, T1 = Tier 1 Sub, T2 = Tier 2 Sub

**MDOT** 

AC

#### SUMMARY OF TOTAL PROJECT COSTS BY JOB NUMBER

EXHIBIT A - 1

N \$ 210,658.15 100.0%

**210,658.15** 100.0%

All Prime and Subconsultant Costs for ALL JOB NUMBERS (including phases). For amendment or revision, complete this form showing all job numbers for all services provided. Report Tier 2 Subconsultant costs with Tier 1 Subconsultants. For use with all Priced Proposals. Use additional pages as

necessary.
MDOT CONTROL SECTION(S) - JOB NUMBER(S): CONTRACT / AUTHORIZATION NUMBER: CS - JN PRIME CONSULTANT NAME: PROJECT DESCRIPTION:
2022 Transportation Asset DBE Goal: Michigan Technological University **Management Council Education** Program Contracted Payment Job Number Job Number Job Number Job Number Total Firm Consultant Role: to: Method: (Y/N) Contract HOURS 2,385 2,385 Michigan Technological University Ρ AC **MDOT** 2,385 2,385 LABOR 90,792.40 90,792.40 Michigan Technological University Ρ 90,792.40 **MDOT** AC \$ 90,792.40 \$ \$ \$ \$ OVERHEAD \$ 32,458.28 32,458.28 \$ Michigan Technological University Ρ **MDOT** AC \$ 32,458.28 \$ \$ \$ \$ 32,458.28 OTHER DIRECT EXPENSES 87,407.47 \$ 87,407.47 Michigan Technological University Ρ **MDOT** AC \$ 87,407.47 \$ \$ \$ \$ 87,407.47 TOTAL COSTS SUMMARY Consultant Payment Firm Contracted Job Number DBE % of Job Number Job Number Job Number Total Totals Role: to: Method: (Y/N) Contract

210,658.15 \$

210,658.15 \$

\$

\$

Michigan Department **DERIVATION OF PRIME CONSULTANT COSTS** Exhibit B of Transportation 5101B (01.08.19) Summary of all Prime Costs for ALL JOB NUMBERS (including phases) for all services provided. Use additional pages as necessary. MDOT CONTROL SECTION(S) - JOB NUMBER(S): CONTRACT / AUTHORIZATION #: FIRM ROLE: **Prime Firm** CS - JN PRIME CONSULTANT NAME: PROJECT DESCRIPTION: 2022 Transportation Asset Management Council Education Michigan Technological University **Program** PRIME LABOR: CLASSIFICATION CODE **HOURS** RATE/HR LABOR COST х Programmer/IT Specialist \$ \$ 20 24.01 480.20 360 \$ 69.25 \$ Director Х 24,930.00 = **Associate Director** 105 \$ \$ 5,384.40 Х 51.28 = **Technical Writer** \$ 515 Х 30.19 \$ 15,547.85 Research Engineer II \$ \$ 390 Х 40.03 15,611.70 \$ \$ Research Engineer 380 33.36 12,676.80 Х = Sr. Project Manager, Training & Ops 200 Х \$ 37.59 \$ 7,518.00 Sr. Business/Training Support Specialist \$ \$ 24.60 1,476.00 60 Х **Event Specialist** 355 20.19 \$ 7,167.45 Total Hours: 2385 Total Labor \$ 90,792.40 PRIME OVERHEAD: (Total Labor x Overhead Rate) 35.75% Total Overhead \$ Overhead Rate: 32,458.28 PRIME OTHER DIRECT EXPENSES: (List each item once at Actual Cost - NO MARKUP.) Quantity **Unit Price** <u>Unit</u> Item Price Āvg. 13.00 @ Facility/Room Rental \$ 400.000 \$ 5,200.00 Mileage (MTU Motorpool) 12,850.00 @ \$ 0.560 Mile \$ 7,196.00 Lodging @ \$ 75.000 Night \$ 54.00 4,050.00 Per Diem \$ \$ 69.00 @ 55.000 Dav 3.795.00 \$ Webinar Expenses 17,250.00 @ 0.080 Minute 1,380.00 \$ \$ @ 600.000 Mail Charges **Annual** 600.00 1.00 Print/Copy Charges @ \$ \$ 23.000.00 0.150 Page 3.450.00 Long Distance Telephone 2,000.00 @ \$ 0.020 Minute \$ 40.00 Fringe Benefits - Prof 90,792.40 @ \$ 0.426 Dollar \$ 38,677.56 **ODC** Overhead 64,388.56 @ \$ 0.358 Dollar \$ 23,018.91 **Total Other Direct Expenses \$** 87,407.47

Note: Payment Method = AC

Firm Role: Prime Firm

TOTAL PRIME FIRM COSTS \$

210,658.15

Michigan Department of Transportation 5101D (01.08.19)

# **SUMMARY OF PERSON HOURS BY PPMS TASK**

**EXHIBIT D** 

2,385

All Prime and Subconsultant Hours for EACH JOB NUMBER (including phases). For amendment/revision, complete this form showing all job numbers for all services provided. Use additional pages as necessary.

	services provide	d. Use additio	nal pages as nec	essary.		-				
MDOT CONTROL SE	CTION(S) - JOB NUMBER(S):		CONTRACT / AUTHORIZATION NUMBER:							
	CS - JN									
PRIME CONSULTANT	Г NAME:		PROJECT DESCRIPTION:  2022 Transportation Asset Management Council Education  Program							
	Michigan Technological University									
	SUMMAR	Y OF HOURS	BY PPMS TASK	<b>⟨</b>						
			MDOT JN	MDOT JN	MDOT JN	MDOT JN				
PPMS Task Code	Task Description	Firm Init.					Total			
4110	Task 1: Assist in Coordinating the Michigan TAMC Co		290	-	-	-	290			
		MTU	290	-	-	-	290			
4120	Task 2: Conduct Michigan Compliance Plan Webinar a		150	-	-	-	150			
		MTU	150	-	-	-	150			
4130	Task 3: Conduct Introduction to Transportation AM fo		240	-	-	-	240			
		MTU	240	-	-	-	240			
4140	Task 4: Conduct TAMC PASER Training	Total	670	-	-	-	670			
		MTU	670	-	-	-	670			
4150	Task 5: Conduct Inventory Based Rating Training	Total	195	-	-	-	195			
		MTU	195	-	-	-	195			
4160	Task 6: Conduct Michigan Bridge Asset Management		420	-	-	-	420			
		MTU	420	-	-	-	420			
4170	Task 7: Conduct Workshop on Creating Pavement As		300	-	-	-	300			
		MTU	300	-	-	-	300			
4180	Task 8: Project Management & Reporting	Total	120	-	-	-	120			
		MTU	120	-	-	-	120			
	SUMN	MARY OF HOU	JRS BY FIRM							
			MDOT JN	MDOT JN	MDOT JN	MDOT JN				
Role	Firm Name	Firm Init.					Total			
Prime Firm	Michigan Technological University	MTU	2,385	-	-	-	2,385			

Totals

2,385

Michigan Department PROPOSED PERSON HOURS BY PPMS TASK of Transportation										EXHIBIT E		
	5101E (01.08.19)	Summary of all Pr	ime or Subconsulta	nt Hours for ALL II	OB NUMBERS (inclu	uding phases) For	amendment/revision	complete this form	showing all ioh nun	nhare for all sarvice	s provided Submit	
		Summary or all Fil	irrie di Subconsulta	THE FIGURE SOL		per consultant. Us			i snowing an job nun	ibers for all service	з рголива. Зирпіп	
MDOT CONTROL	SECTION(S) - JOB NUMBER(S):						CONTRACT / AUT	HORIZATION #:			FIRM ROLE:	
		CC IN									Duima	F:
		CS - JN									Prime	FIRM
CONSULTANT NAME:									PROJECT DI	ESCRIPTION:	•	
Michigan Technological University						2022 Tra	ansportation	Asset Manag	ement Counc	cil Education F	³rogram	
SUMMARY OF PE	SUMMARY OF PERSON HOURS FOR ALL MDOT JN'S PER PPMS TASK AND CLASSIFICATION											
PPMS Task Code	Task Description	Programmer/IT	Director	Associate	Technical Writer	Research	Research	Sr. Project	Sr.	Event Specialist		HOURS FOR
		Specialist		Director		Engineer II	Engineer	Manager,	Business/Trainin			TASK
4110	Task 1: Assist in Coordinating the Michigan TAMC Confer		60		80			60	60	30		290
4120	Task 2: Conduct Michigan Compliance Plan Webinar and		50		20	20		20		40		150
4130	Task 3: Conduct Introduction to Transportation AM for Loc		40		40	60	60			40		240
4140	Task 4: Conduct TAMC PASER Training	20	150		100	150	150			100		670
4150	Task 5: Conduct Inventory Based Rating Training		5		50	50	50	20		20		195
4160	Task 6: Conduct Michigan Bridge Asset Management Trai		15	100	165		50	40		50		420
4170	Task 7: Conduct Workshop on Creating Pavement Asset N		30		60	100	50	30		30		300
4180	Task 8: Project Management & Reporting		10	5		10	20	30		45		120
SUMMARY OF PE	RSON HOURS FOR ALL MDOT JN'S											
	Classification:	Programmer/IT Specialist	Director	Associate Director	Technical Writer	Research Engineer II	Research Engineer	Sr. Project Manager,	Sr. Business/Trainin	Event Specialist		HOURS FOR FIRM
		Opecialist		Director		Liigiileei ii	Liigilieei	Training & One	a Support			I OK I IKW
	Total Hours:	20	360	105	515	390	380	200	60	355		2385

**Proposal Title:** Submitted To: **Principal Investigator: Co-Principal Investigators: Contracting Authority: Date Submitted:** Michigan Technological University Civil, Environmental, and Geospatial Engineering

# 2022 Transportation Asset Management Council Technical Assistance Activities Program Work Plan

Roger Belknap
Bureau of Transportation Planning Michigan
Department of Transportation
belknapr@michigan.gov

Tim Colling, PhD, PE
Director – Center for Technology & Training
1400 Townsend Drive - 309 Dillman Hall
Houghton, MI 49931
tkcollin@mtu.edu
906-487-2102

Chris Gilbertson PhD, PE
Associate Director – Center for Technology &
Training
cggilber@mtu.edu

Kelly Kallio
Director of Government Sponsored Programs
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931
(906) 487-2226
(906) 487-2245 fax
rsch@mtu.edu

November 18, 2021



# **Sponsored Programs Office**

Lakeshore Center, 3<sup>rd</sup> Floor 1400 Townsend Drive Houghton, Michigan 49931-1295 906-487-2226 • Fax 906-487-2245

November 18, 2021

Via e-mail: belknapr@michigan.gov

Roger Belknap Michigan Department of Transportation Bureau of Transportation Planning P.O. Box 30050 Lansing, MI 48909

RE: Michigan Tech Proposal #2111076, entitled, "2022 Transportation Asset Management Council Technical Assistance Activities Program," directed by Dr. Timothy Colling.

Dear Mr. Belknap,

Michigan Technological University is pleased to submit the attached proposal for your review and consideration.

If you have any technical questions, please contact Dr. Colling at (906) 487-2102 or by email at <a href="mailto:tkcollin@mtu.edu">tkcollin@mtu.edu</a>. For all other questions, please contact Jennifer Bukovich, Sr. Sponsored Programs Analyst, at (906) 487-2226 or by e-mail at <a href="mailto:sponsored-programs-l@mtu.edu">sponsored-programs-l@mtu.edu</a>.

Sincerely,

Kelly M. Kallio Director of Government Sponsored Programs

KMK/jb

Attachments

cc: T. Colling

# **Table of Contents**

1.0 Introduction	1
2.0 TAMC Work Plan Guidelines	1
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3.1 Task 1: Maintain Roadsoft – IRT Data Submission Protocols	1
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# 1.0 INTRODUCTION

The Michigan Transportation Asset Management Council (TAMC) began delivering its education program and providing technical services in 2004. Since that time, the Center for Technology & Training (CTT) has assisted the TAMC with its education programs and technical assistance services. The CTT is a logical choice for this program because, in addition to the TAMC Education Program, the CTT houses other programs funded by the Michigan Department of Transportation (MDOT) including the Michigan Local Technical Assistance Program (LTAP), Roadsoft, Michigan Engineer's Resource Library (MERL), and the Bridge Load Rating Program. This array of programs economizes upon professional, development, and support staff to make project delivery cost effective. The CTT focuses its efforts specifically on projects related to local government agencies and transportation. The CTT is part of the Civil, Environmental, and Geospatial Engineering (CEGE) department on Michigan Technological University's campus.

# 2.0 TAMC WORK PLAN GUIDELINES

The tasks for this proposal were identified from educational priorities outlined by TAMC in the *TAMC Strategic Work Program for 2021-2023* and are referenced to the appropriate items in the most recent version of that document.

## 3.0 WORK PLAN

This work plan and budget is for the period beginning January 1, 2022 and ending December 31, 2022. The project total is \$128,425. A detailed cost estimate is provided Appendix A.

- Task 1: Maintain Roadsoft –IRT Data Submission Protocols
- Task 2: TAMC Quality Review Data Collection Support
- Task 3: Update Bridge Asset Management Guide for Local Agency Bridges in Michigan
- Task 4: Asset Management Domestic State of Practice Study
- Task 5: Undefined Staff Support
- Task 6: Attend and Participate in TAMC Council Meetings
- Task 7: Attend and Participate in TAMC Committee Meetings
- Task 8: Project Management and Monthly Reporting

# 3.1 Task 1: Maintain Roadsoft - IRT Data Submission Protocols

TAMC Goal 1, Objective 1: Surveying and reporting the condition of roads and bridges.

TAMC dedicates a significant portion of its efforts to collecting the pavement data and construction history information (completed and planned investments) necessary for driving

asset management processes at the local, regional, and state levels of government. TAMC data collection activities require sharing of data between these three levels of government in a meaningful format for each stakeholder. To facilitate this data collection, sharing, and reporting, the TAMC relies on interfaces between Roadsoft (asset management software) developed by the Center for Technology & Training and the Investment Reporting Tool (IRT) developed by the Center for Shared Solutions (CSS). Development for both of these tools is ongoing as user requirements change, software interfaces and underlying data systems are maintained, and data collection policies are modified.

The data transfer protocols and interactivity between Roadsoft and the IRT need to be updated and tested annually to ensure that quality data are passed between the two systems and that changes or updates during the prior year have not resulted in data transfer irregularities. This task should be completed close to the start of data collection activities in April, but the development cycle and project load for CSS will dictate. This task will include annual testing and verification of the Roadsoft export of PASER data to the IRT, and import and export of planned and completed treatments (investment reporting) from Roadsoft to the IRT and from the IRT to Roadsoft. Currently with the recent rewrite of the IRT, the functionality does not exist in the IRT to support planned and completed data transfers, however when the IRT allows this functionality the CTT team will actively implement any changes necessary to make Roadsoft compatible with the new IRT transfer. The task also includes a budget for making small changes to the import and export protocols should they be necessary; such as culverts, signals, or other data, however, at the time of the submission of this proposal, it is not clear what the extent the changes will be.

# 3.2 Task 2: TAMC Quality Review Data Collection Support

Full Council Goal 1, Objective 1: Surveying and reporting the condition of roads and bridges.

Historically TAMC has relied on MDOT staff to collect quality review data using the ESRI Maptitude program. However, staff retirements at MDOT have recently required MDOT to staff collection of the quality review data with consultants, and the sunsetting of ESRI's support for Maptitude has left the consultant teams with additional challenges and costs.

This task will allow collection of quality review data using the same tools that rating teams use. This task will make small functional changes to the Laptop Data Collector and the Roadsoft core program to allow quality review teams to collect and submit data to the Investment Reporting Portal. The project team will work with CSS to define and test an export format that will allow quality review data to be submitted using a data service.

# 3.3 Task 3: Update Asset Management Guide for Local Agency Bridges in Michigan

TAMC Goal 1, Objective 3: Supporting the development of appropriate asset management methodologies.

TAMC developed a comprehensive bridge asset management guide to assist local agency plan development in 2011 which contains both technical and procedural components. The manual is heavily used in development of asset management plans and in delivery of bridge asset management training. While the content is believed to still be quite relevant, the Bridge Committee has indicated that this manual is starting to age and there are necessary updates to the manual to keep it current.

This task will edit the current Asset Management Guide for Local Agency Bridges in Michigan as needed for improved organization/ease of use and to update out of date information which may include:

- Procedural / process changes (MBIS/MBRS to MiBridge and cost flowcharts)
- 2. Legislative updates/references
- 3. Linked references to additional resources
- 4. Replacement of local agency sample plan with a recent submittal created using training template or a non-agency specific sample document

The completed manual will be submitted for review by the bridge committee and relevant updates will also be transferred to the training material.

# 3.4 Task 4: Asset Management Domestic State of Practice Study

TAMC Goal 1, Objective 3: Supporting the development of appropriate asset management methodologies.

TAMC has been the leader in asset management for several decades now. Specifically, TAMC has led the nation in a coordinated approach to asset management across ownership silos and has been unique in local agency asset management. In years past TAMC had no peers to learn and borrow from, however, several states have started to mature in their approach to asset management. Notably the State of Indiana and State of Wisconsin have developed intriguing approaches to local agency asset management. Not every lesson comes from successes, there are also a few states that had strong asset management programs that have faded, which may provide valuable cautionary messages.

This task will conduct a domestic state of practice study in whole state asset management. The study will seek to identify leaders in asset management across the United States and will

attempt to distill information from their experiences. The study will specifically look at the following topics:

- 1) State and local perspectives of asset management integration
- 2) Incentives and directives for encouraging adoption of best practices
- 3) Level of adoption of asset management across the state
- 4) Range of assets actively considered
- 5) Tools or practices that may be beneficial and implementable to Michigan
- 6) Lessons learned from states that have not started asset management or that have backslid in their deployment.

The final deliverable for this task will be a final report and presentation documenting the findings.

# 3.5 Task 5: Undefined Staff Support

This task provides support to the TAMC for items that cannot be identified at this time but are deemed critical to be completed in a short timeframe. Historically, this task has covered data management or critical changes to programs. This task allocates approximately 80 hours of staff time to tasks as requested by the Council or its sub-committees. Specific work activities are determined through discussion with the sponsor's project manager, the TAMC staff coordinator, or the TAMC chairperson.

# 3.6 Task 6: Attend and Participate in TAMC Council Meetings

TAMC Goal 3: Coordination of asset management with partner organizations.

This task includes attendance at TAMC Council Meetings to brief members on activity to date, to participate in on-site work, and to take direction from council members and staff. This task also includes time and expenses for CTT staff to attend four on-site 'person-meetings' and six conference-call meetings<sup>2</sup>. Discussion with the sponsor's project manager and the TAMC staff coordinator will determine which meetings will be attended and which personnel will attend. The budget for travel costs will be allocated to attending additional meetings if in person meetings are not convened due to travel restrictions. It is anticipated that several additional virtual meetings may be necessary if in person meetings do not occur.

# 3.7 Task 7: Attend and Participate in TAMC Committee Meetings

TAMC Goal 3: Coordination of asset management with partner organizations.

<sup>&</sup>lt;sup>1</sup> A "person-meeting" is one person attending one meeting

<sup>&</sup>lt;sup>2</sup> As a cost saving measure, the number of on-site meetings and associated travel cost have been reduced, with the assumption that teleconference meetings will meet the TAMC's needs as they have over the last several years.

This task includes attendance at TAMC Committee Meetings (including monthly meetings with RPO and MPO staff to brief members of activity to date), participation in on-site work, and taking direction from TAMC members and staff. This task also includes time and expenses for the CTT staff to attend four on-site 'person-meetings' and eight conference-call meetings<sup>2</sup>. Discussion with the sponsor's project manager and the TAMC staff coordinator will determine which meetings will be attended and which personnel will attend.

The budget for travel costs will be allocated to attending additional meetings if in person meetings are not convened due to travel restrictions. It is anticipated that several additional virtual meetings may be necessary if in person meetings do not occur.

# 3.8 Task 8: Project Management and Monthly Reporting

TAMC Goal 2: Provide fiscal and budgetary accountability for TAMC.

This task covers all management of the project, project reporting, and project-specific interaction with Michigan Technological University administration and relations with the sponsor.

Monthly progress reports will include a list of activities conducted and an estimate of percent completion by task. Estimates of percent complete are based on aggregate hours worked, not based on budget expended; so, these estimates are not intended to be used for auditing invoices by the sponsor.

## 4.0 KEY PERSONNEL

Tim Colling, PhD, PE, Director – PI Chris Gilbertson, PhD, PE, Associate Director – Co-PI

# Names of Employees and Positions for this Service

Scott Bershing, Technical Specialist
Chris Codere, Sr. Project Manager, Training & Operations
Jacob Coulson, Software Developer/IT Support
Zach Fredin, PE, Research Engineer
Nick Koszykowski, Sr. Project Manager, Software Development & IS
Joe Kurtz, Software Developer
Daniel Morgan, Software Developer
Luke Peterson, Principle Programmer
Victoria Sage, MS, Technical Writer
Peter Torola, PE, Research Engineer II

# **APPENDIX A: BUDGET AND COST DERIVATION MDOT FORM 5101A-1**

The signed MDOT Priced Proposal is attached to this proposal as a separate document.					

# **APPENDIX B: PAYROLL VERIFICATION**



# **PAYROLL VERIFICATION**

# Michigan Department of Transportation

"2022 Transportation Asset Management Council Technical Assistance Activities Program"

Principal Investigator: Timothy Colling

Personnel	Current Hourly/Annual Rate:
Timothy Colling	\$ 69.25 / \$144,033.25
Scott Bershing	\$ 31.26 / \$ 65,013.52
Christine Codere	\$ 37.59 / \$ 78,195.54
Jacob Coulson	\$ 24.01 / \$ 49,950.00
Zachary Fredin	\$ 33.36 / \$ 69,390.60
Christopher Gilbertson	\$ 51.28 / \$106,664.00
Nicholas Koszykowski	\$ 48.70 / \$101,291.31
Joseph Kurtz	\$ 21.63 / \$ 45,000.00
Daniel Morgan	\$ 27.64 / \$ 57,500.00
Luke Peterson	\$ 46.90 / \$ 97,543.68
Victoria Sage	\$ 30.19 / \$ 31,397.60
Peter Torola	\$ 40.03 / \$ 83,268.64

Name Susan McDaniel

Date 11/18/2021

Title and Department Office Assistant, Payroll Services

Michigan Technological University
214 Lakeshore Center | 1400 Townsend Drive, Houghton, Michigan 49931-1295
906-487-2280 | f. 906-487-3220 | mtu.edu/hr

Michigan Departmen	
of Transportation	
5101 (01 08 19)	

# PRICED PROPOSAL COVER SHEET

Page 1 of 1

This form replaces a traditional cover letter, and must have a signature by an authorized legal signer. This form is required for all priced proposals, and shall be the very first page(s). This priced proposal is a binding document and no further Consultant signature(s) will be required if an authorization is issued, rather than a contract.

This form shall be completed by each consultant that has a derivation of cost sheet as part of this priced proposal. Traditional cover letters are not required, but may be added after this Priced Proposal Cover Sheet(s).

	( )			
	PROJECT IN	IFORMATION		
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZA	ATION NUMBER:	
CS - JN				
PROJECT DESCRIPTION:		1		
2022 Transportation Ass	et Management Cou	uncil Technical Ass	sistance Activites Pro	ogram
BASIS FOR REIMBURSEMENT AND METHOD Fee, Loaded Hourly Rate, Unit Price, Lump Sumbasis for reimbursement and method of payment	, and Milestones) Wher	n applicable, list ALL Co	onsultant(s) performing w	
Actual Cost (AC)			MTU	
PREQUALIFICATION CLASSIFICATION(S) (Which they will be working. Use current MDOT of the transfer of the transf				d all classification(s) in
	PRIME CONSULTA	ANT INFORMATION	I	
LEGAL BUSINESS NAME:		FEDERAL ID NUMBER: (Must match prequalification ROLE: (Prime		ROLE: (Prime, Tier 1, Tier
Michigan Technological University		386005955		Prime Firm
COMPANY ADDRESS:		CITY:	STATE:	ZIP CODE:
1400 Townsend Dr,		Houghton	MI	49931
EMAIL (AUTHORIZED CONTRACT SIGNER):	PHONE NO.:		EMAIL (FOR SIGNED CONTRACT DISTRIBUTION):	
rsch@mtu.edu	9064872226		_	mtu.edu
By signature on this form, the consultant agr		ovided in the consulta	int priced proposal doe	s not contradict the
scope of services or violate the contract term AUTHORIZED LEGAL SIGNER: (Printed Name - Title)	DIGITAL SIGNATURE AND	DATE:		
Kelly Kallio  Director, Government Sponsored  Programs	STAL GIGHAT GIVE AND			

Michigan Department of Transportation 5102 (07/19)

# DOCUMENT OF CHANGES TO THE MDOT SCOPE OF SERVICES

Page 1 of 1

This form is for use during the contract approval process and shall be attached anywhere the MDOT Scope of Services is used, such as in a contract exhibit. The MDOT Project Manager (PM) shall complete this form to document any changes (or verify no change) to an MDOT Scope of Service previously used for advertisement and for consultant selection that has been changed through, for example, the contract negotiation process or the scope verification meeting. This form is not required when a PM is requesting additional services through a revision or amendment to an agreement.

PROJECT INFORMATION						
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZATION NUMBER:				
CS - JN		0				
PRIME CONSULTANT NAME:		PROJECT DESCRIPTION:				
Michigan Technological Un	niversity	2022 Transportation Asset Management Council Technical Assistance Activites Program				
Box A.		Box B. (Select all that apply):				
No changes have been made.						
		Changes include a major adjustment in the project limits.				
If you selected one of the following, pleas	se complete Box B.	Changes do not include a major adjustment in the project limits.				
Changes have been made - pages are at	tached	Changes affect the engineer's estimate.				
Changes have been made - pages are no	ot attached	Changes do not affect the engineer's estimate.				
For Construction Engineering projects, an Expectation	ns Maating was hald with th	DATE:				
Manual. This meeting was held on the following date:		e Consultant as required by the MDOT Constituction				
LIST SPECIFIC ADDITIONS, DELETIONS, AND		MDOT SCORE OF SERVICES				
I certify that all of the above additions, deletion as amended.	ns, and/or changes hav	re been incorporated within the advertised MDOT Scope of Services,				
AUTHORIZED LEGAL SIGNER: (Printed Name - Title)	DIGITAL SIGNATURE AND	DATE:				
Kelly Kallio Director, Government Sponsored						
Programs MDOT PROJECT MANAGER:	DIGITAL SIGNATURE AND	DATE				
INIDOT PROJECT MANAGER:	DIGITAL SIGNATURE AND	DATE.				
Roger Belknap						

Michigan Department of Transportation 5108 (01.08.19)

# **CERTIFICATION OF OVERHEAD COST RATE**

Page 1 of 1

- This Certification is required per U.S. Department of Transportation, Federal Highway Administration (FHWA) Order 4470.1A, and dated October 27, 2010. FHWA has issued this new policy to be **effective January 1, 2011**, requiring consultants provide certification that costs used to establish overhead cost rates for Federal-aid engineering and design related services contracts do not include any costs which are expressly unallowable; and that the overhead cost rate was established only with allowable costs.
- This certification is to provide assurance that the overhead costs rate was calculated in accordance with the applicable cost principles contained in the Federal Acquisition Regulations (FAR) of Title 48, Code of Federal Regulations (CFR) Part 31.
- This form shall be completed and submitted by the prime consultant and each subconsultant (first and second tier subconsultant(s)) that have a derivation of cost sheet as part of this priced proposal where an overhead rate was proposed. Please note that the Certifying Official is defined as the firm's Executive (President, Vice President or equivalent) of Chief Financial Officer.

as the firm's Executive (President, Vice Preside	nt or equivalent) of Chie	ef Financial Officer.		
	PROJECT II	NFORMATION		
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZ	ATION NUMBER:	
CS - JN				
C3 - 3N				
PROJECT DESCRIPTION:		1		
2022 Transportation Ass	et Management Co	uncil Technical Ass	sistance Activites Pr	ogram
	DECLARATION (	OF CERTIFICATION		
				05.750/
OVERHEAD COST RATE:				35.75%
DATE MOOT ACCEPTED OVERHEAD COST	RATF:			4/8/2021
DATE INDOLLAGE TED GVERNIERD GGGT				17072021
FISCAL YEAR COVERED FOR RATE CALCU	LATION:	7/1/2021	to	6/30/2024
<ol> <li>All costs included to establish the above over Regulation (FAR) of title 48, Code of Federal Research</li> <li>This overhead cost rate does not include any Has the firm been approved to use the SAFE that the Safe Harbor Rate will be used for the All known material transactions or events the have been disclosed. All supplied wage rate established by 48 CFR 31.201-3.</li> </ol>	egulations (CFR), part 3 y costs which are expres E HARBOR INDIRECT ( e life of the agreement nat have occurred affec	ssly unallowable under occorrections  COST RATE of 110% was:  cting the firm's owners	the cost principles of the rith the understanding ship, organization and c	FAR of 48 CFR 31.  N  overhead cost rates
cotabilities by 40 of Nonzor of	CONSIII TANT	INFORMATION		
LEGAL BUSINESS NAME:	CONSOLIANI		Must match prequalification file)	ROLE: (Prime/Tier 1/Tier 2)
Michigan Technological Ui	niversity		005955	Prime Firm
COMPANY ADDRESS:	iiversity	CITY:	STATE:	ZIP CODE:
1400 Townsend Dr		Houghton	МІ	49931
EMAIL (AUTHORIZED CONTRACT SIGNER):	PHONE NO.:	ag		NTRACT DISTRIBUTION):
rsch@mtu.edu	9064	872226	rsch@	mtu.edu
By signature on this form, the consultant ag		provided in the consul	tant priced proposal do	es not contradict the
scope of services or violate the contract terrices. (Printed Name - Title)		CERTIFYING OFFICIAL AN	ID DATE:	
Kelly Kallio				
Director, Coroninion Openiorica				
Programs				

Michigan Department
of Transportation
5101A-1 (01.08.19)

#### SUMMARY OF TOTAL PROJECT COSTS BY JOB NUMBER

EXHIBIT A - 1

All Prime and Subconsultant Cosfor all services provided. Report necessary.															
MDOT CONTROL SECTION(S) - JOB	NUMBER	(S):								CC	ONTRACT / AU	THORI	ZATIO	ON NUMBER:	
		CS	- JN												
PRIME CONSULTANT NAME:  Michigan Technological University									DBE Goal: PROJECT DESCRIPTION: 2U22 Iranspoi			ort	ertation Asset ouncil Technical		
wichigan rechnological University											_			itos Progr	
	Firm	Contracted	Payment		Job Number		Job Number		Job Number		Job Number	DBE		Total	% of
Consultant	Role:	to:	Method:		JOB Nullibel		JOD HUITIDET		JOD Hullibei		JOD HUITIDET	(Y/N)		Total	Contract
HOURS					4 205									4 205	
Michigan Technological University	P	MDOT	AC		<b>1,385</b>		•		•		-			<b>1,385</b>	
LABOR	г	IVIDOT	AC	\$	62,277.70	¢	-		<u>-</u> \$ -	\$	-		\$	62,277.70	
Michigan Technological University	Р	MDOT	AC	\$	62,277.70	•			\$ -	\$	-		\$	62,277.70	
OVERHEAD	•	111201	, (0	\$	22,264.28	_			<b>\$</b> -	\$			\$	22,264.28	
Michigan Technological University	Р	MDOT	AC	\$	22,264.28	-			\$ -	\$	-		\$	22,264.28	
OTHER DIRECT EXPENSES				\$	43,882.95	\$	-		\$ -	\$	-		\$	43,882.95	
Michigan Technological University	Р	MDOT	AC	\$	43,882.95	\$	-		\$ -	\$	-		\$	43,882.95	
TOTAL COSTS SUMMARY															
Consultant	Firm	Contracted	Payment		Job Number		Job Number		Job Number		Job Number	DBE		Total	% of
Totals	Role:	to:	Method:	L		L						(Y/N)			Contract
Michigan Technological University	Р	MDOT	AC	\$	128,424.93	\$	•		\$ -	\$	•	N	\$	128,424.93	100.0%
Firm Role Key: P = Prime Firm, T1 = Ti	er 1 Sub, T	2 = Tier 2 Sub	)		400 404 00	•			•	_				400 404 00	400.00/
TOTAL COSTS				\$	128,424.93	\$	-		\$ -	\$	•		\$	128,424.93	100.0%

Michigan Department of Transportation 5101B (01.08.19)	DE	RIVATION	OF PRIM	E CONS	ULT	ANT COST	S		Exhibit B					
Summary of all Prime Costs for ALL JOB	,	g phases) for a		•		•	ges as necessary.							
MDOT CONTROL SECTION(S) - JOB NUMBER	(S):		CONTRA	CT / AUTHO	ORIZA	TION #:	FIRM ROLE:							
CS -					Pi	rime	Firm							
PRIME CONSULTANT NAME:			PROJECT DESCRIPTION:											
Michigan Technolo	gical University		2022 Transportation Asset Management Council Technical Assistance Activites Program											
					-		7.0g							
PRIME LABOR:														
CLASSIFICATION	CODE	HOURS		X		RATE/HR	=		LABOR COST					
Technical Specialist		20		X	\$	31.26	=	\$	625.20					
Sr. Project Manager, Training & Ops		20		X	\$	37.59	=	\$	751.80					
Director		240		X	\$	69.25	=	\$	16,620.00					
Software Developer/IT Support		100		X	\$	24.01	=	\$	2,401.00					
Research Engineer		180		X	\$	33.36	=	\$	6,004.80					
Sr. Research Engineer		85		X	\$	51.28	=	\$	4,358.80					
Sr. Project Manager, Software Dev & IS		100		X	\$	48.70	=	\$	4,870.00					
Principal Programmer/Analyst		350		X	\$	46.90	=	\$	16,415.00					
Technical Writer		140		X	\$	30.19	=	\$	4,226.60					
Research Engineer II		150		Х	\$	40.03	=	\$	6,004.50					
	Total Hours:	1385					Total Labor	\$	62,277.70					
PRIME OVERHEAD: (Total Labor x Over	rhead Rate)													
	Overhead Rate:	35.75%	<u>—</u>				Total Overhead	\$	22,264.28					
PRIME OTHER DIRECT EXPENSES: (L	ist each item once at	Actual Cost -	NO MARK	UP.)										
<u>Items</u>	<b>Quantity</b>	<u>@</u>	<u>Unit</u>	t Price		<u>Unit</u>			Item Price					
Mileage - MTU Motorpool	7,500.00	@	\$	0.560		Mile	=	\$	4,200.00					
Lodging	12.00	@	\$	78.000		Night	=	\$	936.00					
Per Diem	12.00	@	\$	55.000		Day	=	\$	660.00					
Fringe Benefits - Prof.	62,277.70	@	\$	0.426		Dollar	=	\$	26,530.30					
ODC Overhead	32,326.30	@	\$	0.358		Dollar	=	\$	11,556.65					
						Total Other	Direct Expenses	\$	43,882.95					

Note: Payment Method = AC

Firm Role: Prime Firm

TOTAL PRIME FIRM COSTS \$

128,424.93

Michigan Department
of Transportation
5101D (01 08 19)

# **SUMMARY OF PERSON HOURS BY PPMS TASK**

**EXHIBIT D** 

All Prime and Subconsultant Hours for EACH JOB NUMBER (including phases). For amendment/revision, complete this form showing all job numbers for all services provided. Use additional pages as necessary.

	services provide	d. Use additior	nal pages as nec	essary.							
MDOT CONTROL SEC	CTION(S) - JOB NUMBER(S):		CONTRACT / AUT	THORIZATION N	JMBER:						
	CS - JN										
PRIME CONSULTANT	NAME:		PROJECT DESCRIPTION:								
	2022 Transportation Asset Management Council Technical Assistance Activites Program										
SUMMARY OF HOURS BY PPMS TASK											
			MDOT JN	MDOT JN	MDOT JN	MDOT JN					
PPMS Task Code	Task Description	Firm Init.					Total				
4010	Task 1: Maintain Roadsoft - IRT Data Submission Prot		290	-	-	-	290				
	MTU	290	-	-	-	290					
4020	Task 2: TAMC Quality Review Data Collection Suppor		280	-	-	-	280				
		MTU	280	-	-	-	280				
4030	Task 3: Update Asset Management Guide for Local Ag		210	-	-	-	210				
		MTU	210	-	-	-	210				
4040	Task 4: Asset Management Domestic State of Practice		280	-	-	-	280				
		MTU	280	-	-	-	280				
4050	Task 5: Undefined Staff Support	Total	80	-	-	-	80				
		MTU	80	-	-	-	80				
4060	Task 6: TAMC Council Meetings	Total	70	-	-	-	70				
		MTU	70	-	-	-	70				
4070	Task 7: TAMC Committee Meetings	Total	105	-	-	-	105				
		MTU	105	-	-	-	105				
4080	Task 8: Project Management	Total	70	-	-	-	70				
		MTU	70	-	-	-	70				
SUMMARY OF HOURS BY FIRM											
			MDOT JN	MDOT JN	MDOT JN	MDOT JN					
Role	Firm Name	Firm Init.					Total				
Prime Firm	Michigan Technological University	MTU	1,385	-	-	-	1,385				
		Totals	1,385	-	-	-	1,385				

	Michigan Department of Transportation	of Transportation										EXHIBIT E		
	5101E (01.08.19)  Summary of all Prime or Subconsultant Hours for <u>ALL JOB NUMBERS</u> (including phases). For amendment/revision, complete this form showing all job numbers for all services provided. Submit only one form per consultant. Use additional pages as necessary.													
MDOT CONTROL	SECTION(S) - JOB NUMBER(S):						CONTRACT / AUT	HORIZATION #:			FIRM ROLE:			
		CS - JN									Prime	Prime Firm		
CONSULTANT NA	ME:								PROJECT DE	ESCRIPTION:				
Michigan Technological University						2022 Trai	nsportation A	sset Manage Activites	ment Council Program	Technical As	ssistance			
	SUMMARY OF PERSON HOURS FOR ALL MDOT JN'S PER PPMS TASK AND CLASSIFICATION													
PPMS Task Code	Task Description	Technical Specialist	Sr. Project Manager,	Director	Software Developer/IT	Research Engineer	Sr. Research Engineer	Sr. Project Manager,	Principal Programmer/Anal	Technical Writer	Research Engineer II	HOURS FOR TASK		
4010	Task 1: Maintain Roadsoft - IRT Data Submission Protoco			20				20	250			290		
4020	Task 2: TAMC Quality Review Data Collection Support			20	100			40	100		20	280		
4030	Task 3: Update Asset Management Guide for Local Agend			10		80	20			100		210		
4040	Task 4: Asset Management Domestic State of Practice St			20		100	20			40	100	280		
4050	Task 5: Undefined Staff Support	20		30				30				80		
4060	Task 6: TAMC Council Meetings			60			10					70		
4070	Task 7: TAMC Committee Meetings			60			35				10	105		
	Task 8: Project Management		20	20				10			20	70		
SUMMARY OF PE	RSON HOURS FOR ALL MDOT JN'S						1	1						
	Classification:	Technical Specialist	Sr. Project Manager,	Director	Software Developer/IT	Research Engineer	Sr. Research Engineer	Sr. Project Manager,	Principal Programmer/Anal	Technical Writer	Research Engineer II	HOURS FOR FIRM		
	Total Hours:	20	20	240	100	180	85	100	350	140	150	1385		

## **ASSET MANAGEMENT**

The resources allocated to the Metropolitan/Regional Planning Organization (MPO/RPO) from the Transportation Asset Management Council (TAMC) annual budget shall be utilized to assist in the completion of the TAMC Work Program. All work shall be consistent with the policies and priorities established by the TAMC. All invoices submitted for reimbursement of Asset Management activities shall utilize Michigan Department of Transportation (MDOT) standard invoice forms and include the required information for processing. The MPO/RPO shall complete the required products and perform tasks according to the timeframes and directives established within TAMC's data collection policies, which are located on the TAMC website (http://tamc.mcgi.state.mi.us/TAMC/#/aboutus). The MPO/RPO will emphasize these tasks to support the top 125 Public Act 51 agencies (agencies that certify under Public Act 51 a minimum of 100 centerline miles of road) within the planning area when resources are limited. The activities eligible for TAMC reimbursement include the following:

#### **TASKS**

- I. Training Activities
  - A. Attendance at training seminar(s) on the use of Pavement Surface Evaluation and Rating (PASER) and Inventory-based Rating System for unpaved roadways.
  - B. Represent MPO/RPO at TAMC-sponsored conferences and seminars, including attending either the Spring or Fall TAMC Conference.
  - C. Attend TAMC-sponsored Investment Reporting Tool (IRT) training seminars.
  - D. Attend TAMC-sponsored Asset Management Plan Development training seminars.
- II. Data Collection Participation and Coordination
  - A. Federal Aid System:
    - Organize schedules with Public Act 51 agencies within MPO/RPO's boundary for participating in Federal Aid data collection efforts; ensure all participants of data collection have access to State of Michigan travel reimbursement rates.
    - Coordinate, participate and facilitate road surface data collection on approximately one-half of the Federal Aid System in accordance with the TAMC Policy for the Collection of Roadway Condition Data on Federal Aid Eligible Roads and Streets.
    - 3. Collect unpaved roadway condition data on approximately half of any unpaved Federal Aid eligible roadways using the Inventory-based Rating System developed by the Michigan Technological University's Center for Technology and Training.
  - B. Non-Federal Aid System:
    - The RPO/MPO may allocate reimbursements for Non-Federal Aid data collection to Public Act 51 agencies according to the resources available to them in the manner that best reflects the priorities of their area and supports the TAMC work.

- 2. Coordinate Non-Federal Aid data collection cycles with Public Act 51 agencies with an emphasis on the top 125 agencies.
- 3. Ensure all participants of data collection understand procedures for data sharing with TAMC as well as TAMC policy and procedures for collecting Non-Federal Aid data.
- 4. Participate and perform data collection with Public Act 51 agencies on an asneeded basis for the data collection of Non-Federal Aid roads when requested.

#### III. Equipment

- A. Ensure rating teams have the necessary tools to complete the federal aid data collection activity by maintaining a laptop compatible with the Laptop Data Collector and Roadsoft programs, a functioning Global Positioning System (GPS) unit, and other required hardware in good working order.
  - B. Communicate any equipment needs and purchases with the TAMC Coordinator; laptops are eligible for replacement on a three-year cycle.

#### IV. Data Submission

- A. Develop and maintain technical capability to manage regional Roadsoft databases and the Laptop Data Collector program; maintain a regional Roadsoft database that is accurate and consistent with local agency data sets.
- B. Coordinate Quality Assurance/Quality Control activities and data submission tasks according to protocols established in TAMC Data Collection Policies for Federal Aid and Non-Federal Aid Roads.
- C. Monitor and report status of data collection efforts to TAMC Asset Management Coordinator through monthly coordinator calls and/or monthly or quarterly program updates that are mailed with invoices.
- D. Provide links on agency websites and reports to the TAMC website, interactive maps and dashboards for the dissemination of roadway data.

## V. Asset Management Planning

- A. Participate and attend TAMC-sponsored training and workshops in order to provide technical support for Asset Management Plan development activities.
- B. Provide an annual reporting of the status of Public Act 51 agency Asset Management Plans and keep abreast of the status of these plans for updates and revision.
- C. Provide technical assistance and training funds to Public Act 51 agencies during the development of local Asset Management Plans using TAMC templates when applicable; coordinate these tasks with an emphasis on the Top 125 agencies.

#### VI. Technical Assistance

- A. Provide technical assistance to local agencies in using the TAMC reporting tools for planned and completed infrastructure investments or any other TAMC Work Program Activity.
- B. Integrate PASER ratings and asset management into project selection criteria:
  - 1. Analyze data and develop road preservation scenarios.
  - 2. Analyze performance of implemented projects.

## VII. Culvert Mapping Pilot

A. Provide administrative and technical assistance to Public Act 51 agencies and MDOT

- for reimbursement of TAMC funds for participation in the 2018 TAMC Culvert Mapping Pilot project.
- B. Utilize TAMC reporting forms to communicate progress and expenditures of Public Act 51 agencies to assist TAMC in the Culvert Mapping Pilot Report.

# **Required Products**

- I. PASER data for Federal Aid System submitted to TAMC via the IRT.
- II. PASER data for Non-Federal Aid System submitted to TAMC via the IRT.
- III. Quarterly or monthly activities reports submitted with invoices to TAMC Coordinator.
- IV. Create an Annual Report of Asset Management program activities as well as a summary of annual PASER condition data by local agency, functional classification, and Public Act 51 Legal System; provide links to the Regional Annual Report on agency website and submit copies to TAMC Coordinator by April 1 of each year.
- V. Prepare a draft status report of Public Act 51 agency Asset Management activities and plans within MPO/RPO boundary by September 30 of each year.

**Proposal Title:** 

**Submitted To:** 

**Principal Investigator:** 

**Co-Principal Investigators:** 

**Contracting Authority:** 

**Date Submitted:** 

Michigan Technological University
Civil and Environmental
Engineering

# 2021-2022 Transportation Asset Management Council Culvert Condition Assessment Work Plan

Roger Belknap
Bureau of Transportation Planning
Michigan Department of Transportation
belknapr@michigan.gov

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Kelly Kallio
Director – Government Sponsored
Programs Office
Michigan Technological University
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Houghton, MI 49931
(906) 487-2226
(906) 487-2245 fax
rsch@mtu.edu

February 12, 2021



# **Sponsored Programs Office**

Lakeshore Center, 3<sup>rd</sup> Floor 1400 Townsend Drive Houghton, Michigan 49931-1295 906-487-2226 • Fax 906-487-2245

February 16, 2021

Via e-mail: belknapr@michigan.gov

Roger Belknap Michigan Department of Transportation 425 W. Ottawa Street Lansing, MI 48933

RE: Revised Michigan Tech Proposal #2101071, entitled, "2021 TAMC Culvert Condition Assessment Work Plan," directed by Dr. Christopher Gilbertson.

Dear Mr. Belknap,

Michigan Technological University is pleased to submit the attached revised proposal for your review and consideration.

If you have any technical questions, please contact Dr. Gilbertson at (906) 487-2102 or by email at <a href="mailto:cggilber@mtu.edu">cggilber@mtu.edu</a>. For all other questions, please contact Jennifer Bukovich, Sponsored Programs Analyst, at (906) 487-2226 or by e-mail at jlbukovi@mtu.edu.

Sincerely,

Kelly M. Kallio
Director of Government Sponsored Programs

KMK/jb

**Attachments** 

cc: C. Gilbertson C. Codere File

# **Table of Contents**

1.0 Introduction	1
2.0 TAMC Work Plan Guidelines	2
3.0 Work Plan	2
Task 1: Provide Technical Writing and Editing for the TAMC Culvert Inspection Guide  Task 2: Update and Provide Culvert Condition Assessment Training  Task 3: Update Roadsoft Culvert Module for TAMC Culvert Inspection Guide  Task 4: Final Report  Anticipated Schedule:	4 4 5
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# 1.0 INTRODUCTION

The Michigan Transportation Asset Management Council (TAMC) began delivering its education program and providing technical services in 2004. Since that time, Michigan Technological University has assisted with the TAMC Education Program and continues to be a logical choice for assisting with this program because of its Center for Technology & Training (CTT). The CTT is part of the Department of Civil and Environmental Engineering (CEE) and is located on Michigan Technological University's campus, which offers a wide array of resources for this project. The CTT houses various state- and federal-funded programs. For example, CTT projects funded by the Michigan Department of Transportation (MDOT) include the Michigan Local Technical Assistance Program (LTAP), Roadsoft, Michigan Engineer's Resource Library (MERL), and Bridge Load Rating technical support program. Additionally, the CTT houses the federally-funded Environmental Protection Agency's Region 5 environmental finance center—the Great Lake Environmental Infrastructure Center (GLEIC). This array of programs economizes upon professional, development, and support staff to make project delivery cost effective and time efficient. The CTT focuses its efforts specifically on projects related to local government agencies and transportation.

One of the prime challenges of effectively working with the over 600 local agencies in Michigan is keeping accurate contact information. The ability of the Michigan LTAP to contact local agency staff through e-mail, phone, and direct mail can provide a major benefit to programs that are targeted at Michigan's local agencies, like TAMC's training efforts. The Michigan LTAP maintains a state-of-the-art contact and event management database, which makes advertising and participant registration for local agency training events a very simple, cost-effective process. In addition, because LTAP is a nationally recognized program working to educate local agencies, events advertised through the Michigan LTAP can take advantage of state and national agreements between partner organizations—such as County Road Association (CRA) of Michigan, National Association of County Engineers (NACE), National Association of Counties (NACO), Michigan Township Association (MTA), American Council of Engineering Companies (ACEC), and Michigan Municipal League (MML)—for access to their contact databases. These agreements allow the Michigan LTAP access to these partner organization mail lists at no cost. Access to these same mail lists outside of LTAP partner organization agreements can have a substantial cost, sometimes as high as \$0.10 to \$0.20 per contact.

Events that are co-sponsored with the Michigan LTAP benefit by utilizing the wealth of local agency contact information that is stored in the Michigan LTAP contact and event management system and from the no-cost access to Michigan LTAP partner organization mail lists. They also benefit by taking advantage of the infrastructure that the Michigan LTAP has for registering and invoicing participants, event tracking, and training records retention. By not duplicating these

efforts, the arrangement results in an economy of scale through cooperation among programs that educate local agency transportation staff.

A nominal registration fee will be assessed to participants for attending training events delivered under this program consistent with Michigan LTAP policy. Registering and failing to show at an event per Michigan LTAP cancelation policy will result in a fee for participants. Registration fees are calculated to break even for on-site expenses, which include consumables that participants use or take with them (such as facility rental, webinar and phone line expenses, food and refreshments, handouts, and rental of audio visual equipment). Registration fees help to offset the load on the program for on-site activities. The absence of a registration fee (i.e., free training) has been shown to increase no-shows and decrease attendance at training programs because it is assumed that "free" training has some other profit motive and requires no commitment on the part of the participant.

Participants in training events offered under this program will be issued certificates of completion for continuing education hours (CEH) required for maintaining a Michigan professional engineer license where applicable. Every attempt will be made to ensure that trainings provided in this program are eligible for CEH credit for attendees.

Since its inception, the TAMC training program has been and continues to be coordinated as a co-sponsored training event with the Michigan LTAP.

#### 2.0 TAMC WORK PLAN GUIDELINES

At the request of TAMC this proposal has been separated from other project work that CTT has with TAMC in order to maintain separate and discrete financial information relating to the completion of these tasks.

#### 3.0 WORK PLAN

The FHWA Culvert Inspection System had been incorporated into Roadsoft and has been used historically by local agencies. The 2018 TAMC Culvert Pilot's evaluation system added additional deterioration descriptions for specific culvert types not included in the 1986 FHWA Culvert Inspection System. An update to the FHWA method was published by AASHTO in August 2020. AASHTO's Culvert & Storm Drain System Inspection Guide method for condition evaluation was compared with the TAMC Pilot and MDOT systems and the results were presented in the 2020 TAMC Culvert Condition Assessment Final Report, accepted by the TAMC Bridge Committee on December 23, 2020.

This work plan will assist the TAMC Bridge Committee with completing a state-specific culvert inspection guide based on the evaluation method published by AASHTO. Additional tasks will

update the TAMC culvert inventory and evaluation training program to reflect the new guide and changes will be made to Roadsoft to facilitate data collection under the updated criteria. A final report will summarize the work associated with the culvert pilot including the tasks within this work plan.

This work plan and budget are for the period beginning March 1, 2021 and ending September 30, 2022. The project budget is \$135,008. The Budget and Cost Derivation, MDOT Form 5101A-1, can be found in Appendix A.

The work plan consists of the following major tasks:

- Task 1: Provide Technical Writing and Editing for the TAMC Culvert Inspection Guide
- Task 2: Update and Provide Culvert Condition Assessment Training
- Task 3: Update Roadsoft Culvert Module for TAMC Culvert Inspection Guide
- Task 4: Final Report

# Task 1: Provide Technical Writing and Editing for the TAMC Culvert Inspection Guide

The AASHTO Culvert & Storm Drain System Inspection Guide states that it "is not intended to be used as a standard or policy statement. (1.3.1)" and that "agencies may choose to use this information as one reference on which to build inspection, assessment, and management criteria best suited to their particular needs." The TAMC Bridge Committee used the guide along with survey and research presented by the CTT during the 2020 TAMC Culvert Condition Assessment project to compile a draft document with a working title "Michigan Non-NBI Culvert Inspection Guide". This document is intended to serve as the technical document describing how to meet consistency standards required to submit culvert data to the TAMC according to the Policy for Collection of Inventory and Condition Data; a standalone policy document developed by the Bridge Committee to describe the policy and procedures for collecting the physical inventory and condition data of culverts owned by Public Act 51 agencies within Michigan.

The draft Michigan Non-NBI Culvert Inspection Guide was presented following the draft Policy for Collection of Culvert Inventory and Condition Data (Attachment 9 in meeting agenda) at the January 6<sup>th</sup> TAMC Meeting. This draft document will serve as the template for Task 1. CTT will provide technical writing services to the Bridge Committee for editing the draft document and completing areas where the template describes content that was not finalized.

The TAMC Bridge Committee chose to accept the AASHTO method for condition evaluation but discussed a desire to re-organize the reporting of condition data by combining and simplifying

data reporting categories. It is expected that the TAMC Bridge Committee will finalize these reporting categories and any unresolved data collection procedures and policy before the CTT technical writer begins this task.

# Task 2: Update and Provide Culvert Condition Assessment Training

The CTT developed training for the 2018 TAMC Culvert Pilot. This training has been offered subsequently but has not been updated. The purpose of this task is to update the existing TAMC Culvert Condition Assessment training program to follow the Michigan Non-NBI Culvert Inspection Guide (Task 1).

This task includes presentation of four webinar sessions of approximately two to three-hours each. The training modules will provide detailed information on the three primary aspects of collecting culvert inventory and condition data: equipment, data collection, and data validation.

Two of the webinars will be focused on data collection and data handling. Topics for the training will include: recommended equipment for culvert data collection; completing data collection with Roadsoft using visual walk-throughs of the software to explain the processes needed to collect each piece of information, and the overall process of data management and quality control.

The remaining two webinars will teach participants the technical points of assessing culvert condition using the modified FHWA Culvert Inspection System. The training will present example culverts and allow participants to rate them using the condition assessment system. The training will include at least one example of every major culvert material type along with a variety of culvert conditions. Instructors will provide guidance on the correct use of the condition evaluation system and discuss each example with reference to the culvert rating table provided in the system.

# Task 3: Update Roadsoft Culvert Module for TAMC Culvert Inspection Guide

Roadsoft is used by the majority of local agencies in the State of Michigan for collecting, storing, and analyzing data associated with transportation infrastructure. The Roadsoft Culvert Module was updated in 2018 to accommodate the TAMC Culvert Pilot.

In this task CTT will rebuild the Roadsoft Culvert Module for consistency with the Michigan Non-NBI Culvert Inspection Guide (Task 1). Updates to the module will include the following:

Data dictionary will be updated to be consistent with the MI Non-NBI Culvert Inspection
 Guide

- The module will be updated to reflect the updated data dictionary. Old fields will be retired as read-only until a future date when they will be removed.
- A conversion tool will be written to provide an interface for the user to transfer data from old fields into the new data dictionary fields where possible.
- Updates to the data dictionary will require updates to Filters, Legends, Import/Export,
   Reports, Laptop Data Collector, and Roadsoft Mobile.
- Upload of culvert data to the CSS web service will be updated to reflect the revised data dictionary.

# **Task 4: Final Report**

A final report will serve as the project deliverable for this work plan. The final report will contain a summary of previous work as contained in the Michigan Local Agency 2018 Culvert Inventory Pilot Evaluation Report and the 2020 TAMC Culvert Condition Assessment Final Report and tie in findings from the proposed work plan.

The final report will complete the findings of the TAMC Culvert Pilot by including the update of the pilot training materials and reporting tools (Roadsoft). Recommendations from the previous work resulted in the adoption of a new condition evaluation method based on the AASHTO Culvert & Storm Drain System Inspection Guide and detailed in the Michigan Non-NBI Culvert Inspection Guide (Task 1).

Agencies who participate in the training and/or data collection will be asked to complete a survey to gather their thoughts on the updated training, the new collection method, and the updated Roadsoft culvert module used to collect the data. This information will be summarized in the final report.

The final report appendices will contain the Michigan Non-NBI Culvert Inspection Guide (Task 1), training materials (Task 2), and the Roadsoft culvert data dictionary (Task 3).

# **Anticipated Schedule:**

2021 TAMC Culvert Condition Assessment		2021								2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Task 1: Provide Technical Writing and Editing for the TAMC Culvert Inspection Guide																					
Task 2: Update and Provide Culvert Condition Assessment Training																					
Task 3: Update Roadsoft Culvert Module for TAMC Culvert Inspection Guide																					
Task 4: Final Report																					

# **4.0 KEY PERSONNEL**

Chris Gilbertson, PhD, PE, Associate Director – PI Tim Colling, PhD, PE, Director – Co-PI Nick Koszykowski – Co-PI

# Names of Employees and Positions for this Service

Scott Bershing, Technical Specialist

Tim Colling, PhD, PE, Director – PI

Zach Fredin, PE, Research Engineer

Chris Gilbertson, PhD, PE, Associate Director

Nick Koszykowski – Senior Software Architect – Co-PI

Luke Peterson, Principal Programmer/Analyst

Victoria Sage, MS, Technical Writer/Training Coordinator

Lindsey Wells, User Interface/User Experience Specialist

# Appendix A: Budget and Cost Derivation MDOT Form 5101A-1

The signed MDOT Priced Proposal is attached to this proposal as a separate document.

# Appendix B: Payroll Verification

# **PAYROLL VERIFICATION**

# **Michigan Department of Transportation**

" 2021 TAMC Culvert Condition Assessment"

Principal Investigator: Christopher Gilbertson

Personnel	Current Hourly/Annual Rate:
Scott Bershing	\$30.05 / \$ 62,513
Timothy Colling	\$67.30 / \$139,974
Zachary Fredin	\$31.30 / \$ 65,100
Christopher Gilbertson	\$49.55 / \$103,057
Nicholas Koszykowski	\$47.05 / \$ 97,866
Luke Peterson	\$45.09 / \$ 93,792
Victoria Sage	\$28.73 / \$ 59,750
Lindsey Wells	\$21.00 / \$ 43,680



01/29/2021

Roxanne Barrette Payroll Supervisor, Payroll Services Michigan Technological University

Michigan Department
of Transportation
5101 (01.08.19)

# PRICED PROPOSAL COVER SHEET

Page 1 of 1

This form replaces a traditional cover letter, and must have a signature by an authorized legal signer. This form is required for all priced proposals, and shall be the very first page(s). This priced proposal is a binding document and no further Consultant signature(s) will be required if an authorization is issued, rather than a contract.

This form shall be completed by each consultant that has a derivation of cost sheet as part of this priced proposal. Traditional cover letters are not required, but may be added after this Priced Proposal Cover Sheet(s).

required, but may be added after this Priced Pro	oposal Cover Sheet(s).								
	PROJECT IN	IFORMATION							
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZ	ATION NUMBER:						
CS - JN									
PROJECT DESCRIPTION:		Į.							
2	2021 TAMC Culvert C	Condition Assessn	nent						
BASIS FOR REIMBURSEMENT AND METHOR Fee, Loaded Hourly Rate, Unit Price, Lump Sur the basis for reimbursement and method of pay	<i>n, and Milestones)</i> Whei	n applicable, list ALL C	onsultant(s) performing w	ork on this project and					
Actual Cost (AC)	Actual Cost (AC) MTU								
PREQUALIFICATION CLASSIFICATION(S) (Which they will be working. Use current MDOT		· · ·		d all classification(s) in					
TAMC Culvert Condition Assessment	Activities		MTU						
	PRIME CONSULTA	ANT INFORMATIO	N						
LEGAL BUSINESS NAME:		FEDERAL ID NUMBER:	(Must match prequalification	ROLE: (Prime, Tier 1, Tier					
Michigan Technological U	niversity	386	6005955	Prime Firm					
COMPANY ADDRESS:		CITY:	STATE:	ZIP CODE:					
1400 Townsend Dr	•	Houghton	MI	49931					
EMAIL (AUTHORIZED CONTRACT SIGNER):	PHONE NO.:		EMAIL (FOR SIGNED CO	NTRACT DISTRIBUTION):					
rsch@mtu.edu	90648	372226	rsch@	mtu.edu					
By signature on this form, the consultant ag scope of services or violate the contract terr		ovided in the consult	ant priced proposal doe	es not contradict the					
AUTHORIZED LEGAL SIGNER: (Printed Name - Title)	DIGITAL SIGNATURE AND	DATE:							
Kelly Kallio Director of Government Sponsored Programs									

Michigan Department of Transportation 5102 (07/19)

# DOCUMENT OF CHANGES TO THE MDOT SCOPE OF SERVICES

Page 1 of 1

This form is for use during the contract approval process and shall be attached anywhere the MDOT Scope of Services is used, such as in a contract exhibit. The MDOT Project Manager (PM) shall complete this form to document any changes (or verify no change) to an MDOT Scope of Service previously used for advertisement and for consultant selection that has been changed through, for example, the contract negotiation process or the scope verification meeting. This form is not required when a PM is requesting additional services through a revision or amendment to

an agreement.		
	PROJECT II	NFORMATION
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZATION NUMBER:
CS - JN		0
PRIME CONSULTANT NAME:		PROJECT DESCRIPTION:
Michigan Technological Un	iversity	2021 TAMC Culvert Condition Assessment
Box A.		Box B. (Select all that apply):
No changes have been made.		
#	a a successiva de la Deces D	Changes include a major adjustment in the project limits.
Changes have been made, pages are at	-	Changes do not include a major adjustment in the project limits.
Changes have been made - pages are at Changes have been made - pages are no		Changes affect the engineer's estimate.  Changes do not affect the engineer's estimate.
Changes have been made - pages are <u>inc</u>	<u>ni</u> allacrieu	Changes do not affect the engineer's estimate.
For Construction Engineering projects, an Expectation Manual. This meeting was held on the following date:	ns Meeting was held with t	the Consultant as required by the MDOT Construction
LIST SPECIFIC ADDITIONS, DELETIONS, AND	OR CHANGES IN THE	MDOT SCOPE OF SERVICES
<u> </u>	ns, and/or changes ha	we been incorporated within the advertised MDOT Scope of Services,
as amended.	I	
AUTHORIZED LEGAL SIGNER: (Printed Name - Title)	DIGITAL SIGNATURE AND	D DATE:
Kelly Kallio Director of Government Sponsored		
Programs  MDOT PROJECT MANAGER:	DIGITAL SIGNATURE AND	DATE:
INDOI FROJECI WANAGER:	DIGITAL SIGNATURE AND	DAIL.
Roger Belknap		

Michigan Department of Transportation 5108 (01.08.19)

# **CERTIFICATION OF OVERHEAD COST RATE**

Page 1 of 1

- This Certification is required per U.S. Department of Transportation, Federal Highway Administration (FHWA) Order 4470.1A, and dated October 27, 2010. FHWA has issued this new policy to be **effective January 1, 2011**, requiring consultants provide certification that costs used to establish overhead cost rates for Federal-aid engineering and design related services contracts do not include any costs which are expressly unallowable; and that the overhead cost rate was established only with allowable costs.
- This certification is to provide assurance that the overhead costs rate was calculated in accordance with the applicable cost principles contained in the Federal Acquisition Regulations (FAR) of Title 48, Code of Federal Regulations (CFR) Part 31.
- This form shall be completed and submitted by the prime consultant and each subconsultant (first and second tier subconsultant(s)) that have a derivation of cost sheet as part of this priced proposal where an overhead rate was proposed. Please note that the Certifying Official is defined as the firm's Executive (President, Vice President or equivalent) of Chief Financial Officer.

as the firm's Executive (President, Vice Preside	nt or equivalent) of Chie	f Financial Officer.		,g cc.ac acca
	PROJECT IN	NFORMATION		
MDOT CONTROL SECTION(S) – JOB NUMBER(S):		CONTRACT / AUTHORIZA	ATION NUMBER:	
CS - JN				
PROJECT DESCRIPTION:				
2	021 TAMC Culvert (	Condition Assessm	ent	
	DECLARATION C	F CERTIFICATION		
OVERHEAD COST RATE:				35.80%
				0/00/00/-
DATE MOOT ACCEPTED OVERHEAD COST	RATE:			6/26/2017
FISCAL YEAR COVERED FOR RATE CALCU	LATION:	7/1/2020	to	6/30/2021
I, the undersigned, certify that I have reviewed my knowledge and belief:	ed the overhead rate c	alculation for the fisca	al period as specified ab	ove and to the best of
1.) All costs included to establish the above ove Regulation (FAR) of title 48, Code of Federal Re			h the cost principles of the	e Federal Acquisition
2.) This overhead cost rate does not include an	y costs which are expres	ssly unallowable under t	he cost principles of the F	AR of 48 CFR 31.
Has the firm been approved to use the SAFE that the Safe Harbor Rate will be used for the			ith the understanding	N
All known material transactions or events th		_		
have been disclosed. All supplied wage rate established by 48 CFR 31.201-3.	s contained within this	s submittal are true, ac	ccurate, and compliant w	vith the guidelines
	CONSULTANT	INFORMATION		
LEGAL BUSINESS NAME:		FEDERAL ID NUMBER: (/	Must match prequalification file)	ROLE: (Prime/Tier 1/Tier 2)
Michigan Technological Ur	niversity	386005955		Prime Firm
COMPANY ADDRESS:		CITY:	STATE:	ZIP CODE:
1400 Townsend Dr.		Houghton	MI FMAIL (FOR SIGNED CON	49931
EMAIL (AUTHORIZED CONTRACT SIGNER):	PHONE NO.:	370000	EMAIL (FOR SIGNED CON	-
rsch@mtu.edu		372226		ntu.edu
By signature on this form, the consultant ag scope of services or violate the contract terr	•	provided in the consum	tant priced proposal doe	es not contradict the
CERTIFYING OFFICIAL: (Printed Name - Title)		CERTIFYING OFFICIAL AN	D DATE:	
Kelly Kallio				

Michigan Department of Transportation 5101A-1 (01.08.19)

Firm Role Key: P = Prime Firm, T1 = Tier 1 Sub, T2 = Tier 2 Sub

TOTAL COSTS

# SUMMARY OF TOTAL PROJECT COSTS BY JOB NUMBER

EXHIBIT A - 1

**135,007.92** 100.0%

\$

All Prime and Subconsultant Costs for ALL JOB NUMBERS (including phases). For amendment or revision, complete this form showing all job numbers

for all services provided. Report Tier 2 Subconsultant costs with Tier 1 Subconsultants. For use with all Priced Proposals. Use additional pages as necessary. MDOT CONTROL SECTION(S) - JOB NUMBER(S): CONTRACT / AUTHORIZATION NUMBER: CS - JN PRIME CONSULTANT NAME: DBE Goal: PROJECT DESCRIPTION: **2021 TAMC Culvert Condition Michigan Technological University** Assessment Contracted DBE Firm Payment Job Number **Job Number** Job Number **Job Number** Total % of (Y/N) Consultant Role: to: Method: Contract HOURS 1,665 1,665 Michigan Technological University Ρ **MDOT** AC 1,665 1,665 LABOR 71,011.95 \$ 71,011.95 71,011.95 Michigan Technological University Ρ **MDOT** AC\$ 71,011.95 \$ \$ \$ \$ 25,422.28 OVERHEAD \$ 25,422.28 \$ \$ \$ Ρ AC\$ \$ \$ 25,422.28 Michigan Technological University MDOT \$ 25,422.28 \$ OTHER DIRECT EXPENSES \$ 38,573.69 38,573.69 \$ \$ Ρ Michigan Technological University MDOT AC\$ 38,573.69 \$ \$ \$ \$ 38,573.69 TOTAL COSTS SUMMARY Contracted **Payment** Job Number **Job Number** DBE Consultant Firm **Job Number Job Number** Total % of Totals Method: (Y/N) Role: to: Contract 135,007.92 \$ **MDOT** Michigan Technological University 135,007.92 P AC \$ \$ N \$ 100.0%

135,007.92

\$

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Michigan Department **DERIVATION OF PRIME CONSULTANT COSTS** Exhibit B of Transportation 5101B (01.08.19) Summary of all Prime Costs for ALL JOB NUMBERS (including phases) for all services provided. Use additional pages as necessary. MDOT CONTROL SECTION(S) - JOB NUMBER(S): CONTRACT / AUTHORIZATION #: FIRM ROLE: CS - JN **Prime Firm** PROJECT DESCRIPTION: PRIME CONSULTANT NAME: **Michigan Technological University 2021 TAMC Culvert Condition Assessment PRIME LABOR:** CLASSIFICATION CODE **HOURS** RATE/HR LABOR COST X **Technical Specialist** \$ 200 \$ 30.05 6,010.00 Χ = \$ \$ 8,076.00 Director 120 67.30 Χ = Research Engineer \$ \$ 40 1,252.00 31.30 Χ Sr. Research Engineer 385 \$ \$ 19,076.75 49.55 Χ Sr. Software Architect \$ \$ 160 47.05 7,528.00 Χ Principal Programmer/Analyst 480 \$ 45.09 \$ 21,643.20 Χ \$ **Technical Writer** 200 \$ 28.73 5,746.00 Χ = Ui/UX Specialist \$ \$ 1,680.00 80 Χ 21.00 Total Hours: 1665 Total Labor \$ 71,011.95 PRIME OVERHEAD: (Total Labor x Overhead Rate) Total Overhead \$ 25,422.28 Overhead Rate: 35.80% PRIME OTHER DIRECT EXPENSES: (List each item once at Actual Cost - NO MARKUP.) <u>@</u> @ Item Price **Unit Price** <u>Items</u> Quantity <u>Unit</u> Fringe Benefits - Prof 71,011.95 \$ Dollar \$ 28,404.78 0.400 \$ **ODC** Overhead @ 10,168.91 28,404.78 0.358 Dollar 38,573.69 **Total Other Direct Expenses \$** 

Note: Payment Method = AC

Firm Role: Prime Firm

TOTAL PRIME FIRM COSTS \$

135,007.92

Michigan Department of Transportation 5101D (01.08.19)	PMS TASK			EXHIBIT D			
All Prime and Sub	oconsultant Hours for EACH JOB NUMBER (includ services provided	<b>.</b> ,			ete this form sh	owing all job nu	ımbers for all
MDOT CONTROL SEC	TION(S) - JOB NUMBER(S):		CONTRACT / AUT	THORIZATION NU	IMBER:		
	CS - JN						
PRIME CONSULTANT	NAME:		PROJECT DESCR	RIPTION:			
	Michigan Technological University		202	1 TAMC Cul	vert Condition	on Assessm	ent
	SUMMAR	Y OF HOURS	BY PPMS TASK	(			
			MDOT JN	MDOT JN	MDOT JN	MDOT JN	
PPMS Task Code	Task Description	Firm Init.					Total
5200	Task 1: Provide Technical Writing and Editing for the	Total	240	-	-	ı	240
		MTU	240	-	-	-	240
5220	Task 2: Update and Provide Culvert Condition Assess	Total	320	-	-	-	320
		MTU	320	-	-	-	320
5240	Task 3: Update Roadsoft Culvert Module for TAMC Ins	Total	920	-	-	-	920
		MTU	920	-	-	-	920

Total

MTU

Firm Init.

MTU

SUMMARY OF HOURS BY FIRM

Totals

185

185

1,665

1,665

MDOT JN

MDOT JN

-

MDOT JN

MDOT JN

185

185

1,665

1,665

Total

Task 4: Final Report

Michigan Technological University

Firm Name

5260

Role

Prime Firm

	Michigan Department of Transportation	PROPOSED PERSON HOUR				SON HOURS	S BY PPMS TASK				EXHIBIT E
	5101E (01.08.19)	Summary of all Prime or Subconsultant Hours for <u>ALL JOB NUMBERS</u> (including phases). For amendment/revision, complete this form showing all job numbers for all services provided. Submit only one form per consultant. Use additional pages as necessary.									
MDOT CONTROL	SECTION(S) - JOB NUMBER(S):						CONTRACT / AUT	HORIZATION #:		FIRM ROLE:	
		CS - JN								Prime	Firm
CONSULTANT NA	AME:							PRO	DJECT DESCRIPTI	ON:	
	Michigan 1	Гесhnologica	I University				20	021 TAMC Cu	Ivert Condition	on Assessmer	nt
	RSON HOURS FOR ALL MDOT JN'S PER PPMS TASK	AND CLASSIFICA									
PPMS Task Code	Task Description	Technical Specialist	Director	Research Engineer	Sr. Research Engineer	Sr. Software Architect	Principal Programmer/Anal	Technical Writer	Ui/UX Specialist		HOURS FOR TASK
5200	Task 1: Provide Technical Writing and Editing for the TAN		20		60			160			240
5220	Task 2: Update and Provide Culvert Condition Assessme	80	40	40	160						320
5240	Task 3: Update Roadsoft Culvert Module for TAMC Inspe	120	40		40	160	480		80		920
5260	Task 4: Final Report		20		125			40			185
SUMMARY OF PE	RSON HOURS FOR ALL MDOT JN'S										
	Classification:	Technical Specialist	Director	Research Engineer	Sr. Research Engineer	Sr. Software Architect	Principal Programmer/Anal	Technical Writer	Ui/UX Specialist		HOURS FOR FIRM
	Total Hours:	200	120	40	385	160	480	200	80		1665



# Policy for Pilot Collection of Roadway Surface Condition Data for 2022

The Transportation Asset Management Council (TAMC) adopted this policy on the 2022 data collection season.

for

#### **Introduction:**

The TAMC was established to expand the practice of asset management statewide to enhance the productivity of investing in Michigan's roads and bridges. Part of the TAMC's mission is to collect physical inventory and condition data on all roads and bridges in Michigan. This document describes the policy and procedures for collecting the physical inventory and surface condition data of paved and unpaved roads and streets owned by Public Act 51 agencies on the Federal Aid eligible and Non-Federal Aid eligible within Michigan. The TAMC has a TAMC Asset Management Coordinator who is responsible for the support and operation of the TAMC activities.

According to Act 51 (P.A. 499 2002, P.A. 199 2007); each Local Road Agency and the Michigan Department of Transportation (MDOT) shall annually report to the TAMC the mileage and condition of the road and bridge system under their jurisdiction. Additionally, procedures and requirements developed and presented by the TAMC shall, at a minimum, include the areas of training, data storage and collection, reporting, development of a multiyear program, budgeting and funding, and other issues related to asset management.

The TAMC has given the responsibility of managing the TAMC work program to the Regional Planning Organizations (RPO)/Metropolitan Planning Organizations (MPO). The RPO/MPOs have TAMC work activities included in their annual work programs and have funds allocated from the TAMC for those activities. The RPO/MPO will have to allocate those funds among eligible work activities in order to best complete the priorities of the TAMC. Therefore, the RPO/MPO may need to limit its authorizations for reimbursements to manage its work programs. Due to the limitations of data collection in 2020, the policy for 2021 included the Pavement Surface Evaluation and Rating system (PASER) data collection on the complete Federal-aid (FA) eligible network.

# This policy applies to the collection of roadway surface condition data on:

- FA eligible network of public roads and streets using the PASER,
- Non-Federal-aid (NFA) eligible network of public roads and streets using the PASER system, and
- Unpaved roads and streets on either the FA or the NFA networks using the Inventory Based Rating<sup>TM</sup> (IBR) system.

#### **Rating Teams**

NOTE: Refer to the *PASER Training/Certification* Requirements section of this policy for training and certification requirements.

Data collection logs MUST contain rating team members' or observers' names and agencies, mileage, rating dates, and rating times. Although the TAMC supports interest by others in the data collection process, observers will not be reimbursed by the TAMC for their time.

## **FA Rating Teams**

The FA rating teams shall consist of a minimum of two (2) people, each representing different agencies, which may include: one (1) member/representative of the RPO/MPO and one (1) member/representative

of the Act 51 road agency being rated (County, City/Village, MDOT), or member who the Act 51 road agency chooses to represent it who meets the training and/or certification requirements. Additional participants may be included however, they must meet the training/certification requirements in order to be reimbursed with TAMC funds through the RPO/MPO for their effort. A third member of the rating team is permissible when traffic and/or safety concerns prevent the safe collection from a two-member team. The third member may be a representative of the Act 51 road agency or RPO/MPO. Although the TAMC supports interest by others in the data collection process, observers will not be reimbursed by the TAMC for their time.

# **NFA Rating Teams**

a. If TAMC reimbursement for NFA data collection has not been approved, but the agency would like condition data included in TAMC's statewide database:

The Act 51 road agency may establish their own collection schedule and collect data on their NFA network.

The rating team shall consist of a minimum of one rater: one (1) member/representative of the Act 51 road agency who meets the training and/or certification requirements.

The TAMC encourages all rating team participants to follow their agency's safety procedures and practices.

## b. If TAMC reimbursement is being requested:

Road agencies must receive authorization prior to gathering any data from the RPO/MPO for reimbursement for NFA data collection.

Road agencies must submit a written request for reimbursement; the request should include the miles of NFA rated and the total estimated cost (actual costs claimed must not exceed the estimated costs) for the data gathering, trained/certified team members' time, and vehicle use. This request must also clarify which fiscal year the data collection and reimbursement will take place. It is recommended that requests for NFA data collection reimbursement authorization are received by the RPO/MPO by October 1.

The RPO/MPO decision on what requests for reimbursement are approved will consider:

- available budget,
- absence or age of the NFA data that will be collected,
- last year of reimbursement to the road agency for that NFA data set. No more frequently than once every three [3] years,
- rating team members' training and/or certification status
- if there is time available within the data collection season.

The rating team shall consist of a minimum of two (2) people: one (1) member/representative of the Act 51 road agency who meets the training and/or certification requirements and one (1) member who the Act 51 road agency chooses to represent it, RPO/MPO, Act 51 agency staff or others. Untrained or uncertified raters will not be reimbursed. Although the TAMC supports interest by others in the data collection process, observers will not be reimbursed by the TAMC for their time.

The TAMC encourages all rating team participants to follow their agency's safety procedures and practices.

# **PASER Training/Certification Requirements:**

#### **Training:**

- Anyone who attended PASER training in 2019, 2020 or 2021 is eligible to participate in FA data collection in 2022; anyone that was PASER certified in 2019, 2020 or 2021 is also eligible to participate in FA data collection in 2022.
- New raters (never attended PASER training before) <u>MUST</u> attend PASER training in 2022
- Any rater who participates in the data collection for unpaved roads shall attend IBR training within three years of the year IBR data collection is conducted.
- New IBR raters (never attended IBR training before) and seasoned raters (who did not attend IBR training within three calendar years of the IBR data collection) <u>MUST</u> attend one (1) IBR training session.
- RPO/MPO representatives are required to have at least one member of staff participate in PASER and IBR training events in 2022. RPO/MPO representatives are critical to the success of the PASER data collection effort, so it is important for them to continue to promote and support the program by attending training events.

#### **Certification Exam:**

- PASER certification exams for 2020, 2021 and 2022 have been cancelled.
- Anyone that was PASER certified in 2019, 2020 or 2021 is eligible to participate in Federal Aid data collection in 2022.
- There is no current certification exam for IBR (unpaved road) data collection.

#### **MDOT Region Representative Responsibilities**

NOTE: Each MDOT Region must designate a MDOT Region Representative to be a contact source for the MDOT Region's respective RPO/MPO Regional Coordinator(s).

- Ensuring that a trained and/or certified MDOT or MDOT designated rater participates on the rating team for the annual FA data collection.
- Ensuring non-MDOT members of rating team are provided with State of Michigan travel and reimbursement rate schedules at the start of the rating season.

# **RPO/MPO Regional Coordinator Responsibilities**

NOTE: Each RPO/MPO must designate a RPO/MPO Regional Coordinator to be a contact source for the TAMC.

- Establishing the data collection schedule and coordinating the dates for FA road rating with the respective rating teams.
  - NOTE: The TAMC outlines policies for the data collection cycle schedule as well as first and last days of annual data collection in the *Data Collection* section.
- Ensuring the collection teams have access to the computer equipment and GPS devices needed for data collection.
- Ensuring the collection teams have access to vehicle capable of being used for data collection. In the event the collection teams are using vehicles owned by the Act 51 road agency, confirmation of insurance coverage of all passengers is required. Act 51 road

agency may include equipment rental rates as defined in MDOT's Schedule C as associated costs for data collection. In the event the collection teams do not have access to a vehicle capable of being used for data collection, the RPO/MPO Regional Coordinator will coordinate a vehicle rental through the State of Michigan vehicle use program with the assistance of MDOT TAMC Support Staff and administer driver agreements and overnight parking documentation.

- Ensuring/verifying the rating team has the required number of trained and/or certified raters
  from the Act 51 road agency(ies) collecting the road surface condition data (see the *Rating Teams* and the PASER Training/Certification Requirements sections of this policy for
  more information).
- Ensuring daily data collection logs which <u>MUST</u> contain team members or observers' names and agency, vehicle, vehicle mileage traveled, rating dates and time are accurately completed for each day of reimbursable data collection.
- Verifying/checking the miles of road surface condition data collected.
- Performing quality control checks of the data collected.

NOTE: The RPO/MPO Regional Coordinator MUST review the collected data—looking for missing entries (zeros), valid surface type, missing surface type, valid number of lanes, missing lane information, and large increases/decreases in PASER scores for road segments that have had no treatments—before sending it to the Center for Shared Solutions (CSS).

- Ensuring that the completed PASER data export file is the correct file type and submitting the PASER data export file to the CSS (see the *Data Submission/Standards* section of this policy for more information).
- Submitting RPO/MPO invoices for reimbursement to the TAMC Asset Management Coordinator monthly or quarterly for all expenses related to training, data collection efforts, quality control, and data submission activities. Including copies of daily collection logs and any other backup information as attachments to the invoice.

#### **Data Collection**

- For 2022, the expectation is to collect PASER data on no less than half (or no less than 50%) of the FA eligible network within each RPO/MPO boundary.
- NFA data collection is encouraged with or without TAMC reimbursement.
- Each rating team must complete the following logs when being reimbursed for their work:
  - O Daily data collection logs which <u>MUST</u> contain team members or observers' names and agency, vehicle, vehicle mileage traveled, rating dates and time are accurately completed for each day of reimbursable data collection.
  - o Prepare a list that includes rater's names and agencies, as well as the certification that all raters were appropriately trained/certified.
- Data collection on paved roads must be consistent with the current TAMC Data Collection
  Manual, the Sealcoat Revised Rating Guide for Michigan, and, when appropriate, the Asphalt,
  Concrete, and Sealcoat PASER Manuals (accessible at Center for Technology & Training
  website).
- Data collection on unpaved roads and streets must be consistent with the current IBR training and the *IBR Field Guide*.
- The use of the Roadsoft Laptop Data Collector (LDC) is required.
- The first day for data collection shall be Monday, April 4; the last day for data collection shall be the Friday, December 2, weather permitting.

#### **Data Submission/Standards**

- FA/NFA data collected is to be submitted to the CSS by the RPO/MPO Regional Coordinator, who will submit the data following quality assurance and quality control guidelines.
- The export file from Roadsoft MUST be in a shapefile format; exports containing text files are not accepted. See the current TAMC *Data Collection* Manual (accessible at Center for Technology & Training website) for additional information.
- The deadline for the RPO/MPO Regional Coordinator to submit the data to the CSS is Friday, December 9.

#### Reimbursement

Note: Act 51 road agencies must receive prior authorization from the RPO/MPO for reimbursement for NFA data collection. Please refer to the earlier section on NFA Rating Teams: b. If TAMC reimbursement is being requested section.

The TAMC has given the responsibility of managing portions of the TAMC work program to the RPO/MPOs. The RPO/MPOs have TAMC work activities included in their annual work programs and have funds allocated from the TAMC for those activities. The RPO/MPO will have to allocate those funds among eligible work activities in order to best complete the priorities of the TAMC. Therefore, the RPO/MPO may need to limit its authorizations for reimbursements in order to manage its work programs and will work with its members to coordinate activities.

- Rating team members who represent MDOT will be reimbursed by the TAMC via annual approved budget for PASER review.
- Rating team members who represent the RPO/MPO will be reimbursed via annual project authorization with the TAMC.
- Rating team members who represent Act 51 (county, city, or village) road agencies will be reimbursed, for FA data collection and, with prior authorization, for NFA data collection activities, and for expenses directly related to the data collection effort (i.e., time, travel, meals, vehicle) via annual RPO/MPO project authorization with the TAMC. The TAMC will not directly reimburse Act 51 road agencies. Act 51 road agencies shall submit invoices and supporting information to the RPO/MPO for costs associated with PASER data collection that has been authorized by the RPO/MPO. The RPO/MPO will request payment from MDOT and subsequently reimburse the road agency following receipt of payment from MDOT.
- Asset Management Coordinator will submit invoices for reimbursement to the TAMC Asset Management Coordinator monthly or quarterly for all expenses related to training, data collection efforts, quality control, any Act 51 road agency's associated cost invoice(s) detailing expenses directly related to data collection (i.e., time, travel and/or meal reimbursements), and data submission activities. Time, travel and/or meal reimbursements will be processed according to State of Michigan travel and meal rates. Copies of daily collection logs, vehicle rental contracts, rental rates and any other backup information will be included as attachments to the invoice.

If you have any questions relating to this policy, please contact:

TAMC Asset Management Coordinator Michigan Department of Transportation P.O. Box 30050, 425 W. Ottawa Street Lansing, MI 48909 (517) 230-8192 www.michigan.gov/tamc



# Policy for the Submittal and Review of Asset Management Plans for Roads, Bridges and Transportation Infrastructure

The Transportation	Asset Management Council ad	lopted this polic	icy on

#### **Introduction:**

The Transportation Asset Management Council (TAMC) was established to expand the practice of asset management statewide to enhance the productivity of investing in Michigan's roads and bridges. Recent amendments to Public Act 51 have outlined additional responsibilities for TAMC to develop a template and a schedule for the submittal of asset management plans from road-owning agencies. Public Act 51 also defines asset management plan as "a plan created by the department and approved by the state transportation commission or a plan created by a local road agency and approved by the local road agency's governing body that includes provisions for asset inventory, performance goals, risk of failure analysis, anticipated revenues and expenses, performance outcomes, and coordination with other infrastructure owners." This document describes the policy, submission procedures and required elements for these asset management plans as well as role of TAMC and the Michigan Department of Transportation (MDOT) to receive, review and determine compliance with the public act.

# Asset Management Planning for Agencies Not Subject to PA 325 Requirements:

Public Act 325 amended Public Act 51 of 1951 to require road agencies responsible for 100 or more certified centerline mile of public roads to submit asset management plans to TAMC. Agencies that certify less than 100 miles of roads do not have asset management plan submittal requirements under Public Act 325 requirement. The Michigan Department of Transportation (MDOT) is not subject to the asset management plan submittal requirement as the Federal Highway Administration provides oversight of asset management plans coming from state transportation departments. TAMC does encourage all road agencies regardless of size to utilize asset management training programs, the TAMC Asset Management Plan Template and processes to assist in management of public road systems and transportation assets. Cities and Villages that are not required to submit asset management plans in response to Public Act 325 of 2018, but that choose to do so in order to shift funding in accordance with Public Act 338 of 2006 shall follow the same procedures for plan submittal. In accordance with Public Act 164 of 2020, if a local road agency responsible for less than 100 certified miles of road submits an asset management plan to TAMC, the plan is considered approved on submission. TAMC support staff will review the plan and may provide assistance on the elements of asset inventory, performance goals, risk of failure analysis, anticipated revenues and expenses, performance outcomes, coordination with other infrastructure owners and approval by the local road agency's governing body. Once the TAMP is approved by the agency governing board, the TAMP will be valid for three years. After the three years, a new TAMP must be submitted.

#### **Submission of Asset Management Plans to TAMC:**

As directed in Public Act 325 of 2018, no later than October 1, 2019, the TAMC shall develop a schedule for due dates of asset management plans by local road agencies responsible for 100 or more certified miles of roads and require its submission to the TAMC.

In 2007, TAMC created the Investment Reporting Tool (IRT) for road agencies to submit road and bridge project information for past and future reporting. In 2017, the IRT was enhanced to allow online submittal of asset management plans and other condition data.

Agencies required to submit asset management plans to remain in compliance with the new law are required to directly submit or coordinate submittal of their asset management plan files using the IRT. The IRT will provide acknowledgement of receipt for files submitted through electronic email sent to the address of the IRT account from which the files were uploaded. TAMC support staff will also receive electronic email notification of asset management plan submittals into the IRT from road agencies.

#### **Asset Management Plan Template:**

As directed in Public Act 325 of 2018, no later than October 1, 2019, the TAMC shall develop a template for an asset management plan for use by local road agencies responsible for 100 or more certified miles of road and required to submit reports to the TAMC. The TAMC will provide public, digital access to the asset management plan template by making it available for download on the TAMC website; TAMC will also provide for direct distribution of the template through electronic email upon request. TAMC will also provide training and workshops as part of the TAMC Work Program to assist agencies with the creation of their asset management plans.

#### **Asset Management Plan Elements:**

The TAMC Asset Management Plan Template outlined above will contain all seven elements required of asset management plans as outlined in Public Act 325 of 2018. The basis of review by TAMC and certification of submitted plans for compliance to this act are the following elements and a defined multi-year capital program; guidance on these elements is provided in italics:

(a) <u>Asset inventory</u>, including the location, material, size, and condition of the assets, in a format that allows for and encourages digital mapping. All standards and protocols for assets shall be consistent with government accounting standards. Standards and protocols for assets that are eligible for federal aid shall be consistent with federal requirements and regulations.

Specific transportation assets included in this inventory, at a minimum, will include roadway surfaces on the County Primary and City Major system and all bridge structures. Until TAMC develops guidance on traffic signals and culverts at a statewide level, road agencies are only required to include a short description of the current status of these two assets within the agency. The TAMC Asset Management Plan Template will include a placeholder section for these asset classes; agencies with inventories and condition data on these and other asset classes are encouraged to incorporate these into their asset management plan.

"Inventory" and "location": These requirements are currently met since the entire public road system is on the framework base map, and all public bridges are located in the MI Bridge system.

"Format that allows digital mapping": Local road agencies using Geographic Information Systems (GIS) must be able to translate location data in their GIS system to the current Michigan framework base map. Limited extent (less than ten) assets that are not kept in a GIS system should be located using the "on/from" system using framework base map road and intersection names.

"Material, size and condition": Currently the TAMC requires this data to be updated for 50% of the federal aid eligible roads, each year using the Pavement Surfaced Evaluation and Rating (PASER) and Inventory Based Rating (IBR) systems. Bridges are as required by federal inspection requirements. This data should also be collected for non-federal aid eligible roads, but there is no minimum requirement.

(b) <u>Performance goals</u>, including the desired condition and performance of the assets, which shall be set by the local road agency. Performance goals may vary among asset classes under the local road agency's jurisdiction. If a local road agency has jurisdiction over roads or bridges that are designated as part of the federal National Highway System, performance goals for that portion of the system shall be consistent with established federal performance targets.

"Performance goals": It is suggested that these goals be set relative to a condition state that the public can understand. For example: Agency will maintain overall paved road conditions at or better than their 2017 condition of XX% Good and Fair roads. Goals are aspirational, but yet achievable and should be set as such.

"National Highway System (NHS) performance goals": The Michigan Department of Transportation (MDOT) sets statewide performance targets for the NHS system in Michigan. Metropolitan Planning Organizations then have the option of adopting the statewide targets or committing to a quantifiable target for their area. If an MPO adopts the statewide target, they agree to plan and program projects that contribute toward the accomplishment of the statewide performance targets. Local road agency owners of the NHS system, while not required to meet this state wide goal on the individual parts of the NHS that they own, are expected to plan and program projects that will contribute to meeting state goals. As such, the locally owned NHS system should be maintained in a condition that is as good or better than the rest of the federal aid eligible road system within in each local agency as illustrated by comparative PASER ratings..

(c) <u>Risk of failure analysis</u>, including the identification of the probability and criticality of a failure of the most critical assets and any contingency plans.

"Risk of failure": At a minimum, a local road agency will identify the critical linkages in their system that, if not functioning, will cause disruptions to the road users. Critical linkages could include roads or bridges, regardless of condition, that serve either high traffic areas, or link disparate population or industrial centers. Critical linkages could also include assets in poor condition that are likely to cause disruptions or risks to road users.

(d) <u>Anticipated revenues and expenses</u>, including a description of all revenue sources and anticipated receipts for the period covered by the asset management plan and expected infrastructure repair and replacement expenditures, including planned improvements and capital reconstruction.

"Revenues and expenses": This is not intended to be a detailed financial report, but rather a high level assessment of agency funding. Reporting expenses via the Act 51 Distribution and Reporting System (ADARS) system meets this requirement. As with MCL 247.668j (c) A financial performance dashboard that contains information on revenues, expenditures, and unfunded liabilities. Local road agencies may link to financial information provided by the TAMC.

"Infrastructure repair and replacement expenditures": This requirement is met by complying with the TAMC existing investment reporting requirement.

(e) <u>Performance outcomes</u>, including a determination of how the local road agency's investment strategy will achieve the desired levels of service and performance goals and the steps necessary to ensure asset conditions meet or achieve stated goals and a description and explanation of any gap between achievable condition and performance through the investment strategy and desired goals.

"Performance outcomes": Performance outcomes are the anticipated condition of the asset as a whole from five to ten years in the future, using a quantitatively based prediction method.

Prediction methods can include modeling by pavement management software, historical trends, or service cycle based methods such as the National Center for Pavement Preservation network quick check.

(f) A description of any plans of the asset owner to coordinate with other entities, including neighboring jurisdictions and utilities, to minimize duplication of effort regarding infrastructure preservation and maintenance.

"plans of the asset owner to coordinate with other entities": At a minimum, this should include a narrative describing the process for publicly announcing planned projects, and coordinating with agencies responsible for other transportation services or other infrastructure, including buried infrastructure both public and private.

(g) <u>Proof of acceptance</u>, certification, or adoption by the local road agency's governing body.

"Proof of acceptance": At a minimum a board or council approved action to accept the asset management plan. This can be in the form of minutes or resolution.

(h) <u>Multi-year Program</u>, Asset Management Plans will also contain a multi-year program containing road and bridge projects. The projects contained in multiyear program shall be consistent with the asset management process and asset management plan of that local road agency and shall be reported consistent with categories established by TAMC. This includes annual reporting with TAMC's Investment Reporting Tool (IRT), ensuring identified projects in the multi-year program are included with estimated costs, scope and dates of planned activities.

Projects that are planned for future years will meet the general intent of the strategy outlined by the plan. For example: a local road agency cannot detail a strategy to accomplish its goals using a mix of preventive maintenance and reconstruction, then propose only reconstruction projects for three years without some justification for this action.

# **Schedule for Asset Management Plan Submissions:**

In November 2018, TAMC established a schedule for the submission of asset management plans by local road agencies that ensures that 1/3 of these local road agencies submit an asset management plan each year. Local road agencies may submit plans in earlier years, however they may not delay to a later year.

This schedule is as follows:

	October 1, 2020		October 1, 2021		October 1, 2022
1	Alger County	1	Alcona County	1	Allegan County
2	Baraga County	2	Alpena County	2	Antrim County
3	Bay County	3	Arenac County	3	Barry County
4	Berrien County	4	Benzie County	4	Branch County
5	Calhoun County	5	Charlevoix County	5	Cass County
6	Cheboygan County	6	City Garden City	6	Chippewa County
7	City of Ann Arbor	7	City of Battle Creek	7	City of Bay City
8	City of Dearborn Heights	8	City of Burton	8	City of Flint
9	City of Farmington Hills	9	City of Dearborn	9	City of Holland
10	City of Grand Rapids	10	City of Detroit	10	City of Lincoln Park
11	City of Jackson	11	City of Kalamazoo	11	City of Midland

12	City of Kentwood	12	City of Port Huron	12	City of Muskegon
13	City of Lansing	13	City of Rochester Hills	13	City of Novi
14	City of Livonia	14	City of Roseville	14	City of Pontiac
15	City of Norton Shores	15	City of Saginaw	15	City of Sterling Heights
16	City of Portage	16	City of St. Clair Shores	16	City of Warren
17	City of Romulus	17	City of Taylor	17	City of Westland
18	City of Royal Oak	18	Clare County	18	Crawford County
19	City of Southfield	19	Emmet County	19	Delta County
20	City of Troy	20	Gogebic County	20	Eaton County
21	City of Walker	21	Gratiot County	21	Gladwin County
22	City of Wyoming	22	Houghton County	22	Grand Traverse County
23	Clinton County	23	Ionia County	23	Ingham County
24	Dickinson County	24	Isabella County	24	Iron County
25	Genesee County	25	Kent County	25	Jackson County
26	Hillsdale County	26	Lake County	26	Kalkaska County
27	Huron County	27	Leelanau County	27	Keweenaw County
28	Iosco County	28	Livingston County	28	Lapeer County
29	Kalamazoo County	29	Mackinac County	29	Luce County
30	Lenawee County	30	Marquette County	30	Manistee County
31	Macomb County	31	Menominee County	31	Mecosta County
32	Mason County	32	Missaukee County	32	Montcalm County
33	Midland County	33	Montmorency County	33	Ogemaw County
34	Monroe County	34	Newaygo County	34	Oscoda County
35	Muskegon County	35	Oakland County	35	Presque Isle County
36	Oceana County	36	Ontonagon County	36	Roscommon County
37	Osceola County	37	Otsego County	37	Saginaw County
38	Ottawa County	38	Shiawassee County	38	Schoolcraft County
39	Sanilac County	39	Van Buren County	39	St. Clair County
40	St. Joseph County	40	Washtenaw County	40	Tuscola County
41	Wayne County	41	Wexford County		

#### **Compliance Review Asset Management Plans:**

As an element of ongoing compliance reviews for Public Act 51, MDOT and TAMC Support Staff will review asset management plans submitted through the IRT for completion against the asset management plan elements as outlined in Public Act 325 of 2018 and in this policy. Asset management plans that meet these required elements will be approved and notification will be provided to MDOT's Act 51 staff.

Asset management plans submitted that do not meet required elements as outlined in this policy and Public Act 325 of 2018 will be determined to be out of compliance, and the road agency will receive written notice from MDOT's Act 51 staff with directives on how to revise the asset management plan. Non-compliant agencies will also receive contact information for TAMC Support Staff in this notification. Failure to resolve non-compliance standing with Act 51 reporting requirements can lead to Act 51 funds being withheld until such a time that compliance can be determined.

# **Progress Towards Asset Management Plan Goals:**

Beginning October 1, 2025, if the TAMC determines, and MDOT concurs, that a local road agency has not demonstrated progress toward achieving the condition goals described in its TAMP for its federal-aid eligible county primary road system or city major street system, as applicable, the TAMC shall provide notice to the local road agency of the reasons that it has determined progress is not being made. The local road agency shall provide a plan to become compliant within 6 months after receiving the notification. Guidance for progress as it pertains to this policy is as follows:

"Demonstrated progress toward achieving the condition goals": Goals are aspirational, and local road agencies should be encouraged to set them high, but realistically achievable. Demonstrated progress means that the road agency is making a good faith effort to conform to the conditions of its asset management plan through management and planning.

"Become compliant": This means the local road agency will either reassess its condition goals and strategy in their asset management plan, or develop a strategy of planned, fundable projects that will make progress towards its goals as written.

If you have any questions relating to this policy, please contact:

TAMC Asset Management Coordinator Michigan Department of Transportation P.O. Box 30050, 425 W. Ottawa Street Lansing, MI 48909 (517) 230-8192 www.michigan.gov/tamc



# **January 5, 2022**

# **GROUP A**

# **TAMPs Current Status:**

				Pending	Total TAMPs
# of Group A	# TAMPs	# TAMPs	# TAMPs Not	Awaiting	Received
Agencies Due	Received by	Received After	Submitted	Additional	&
by October 1,	October 1,	October 1, 2020		Information	Recommended
2020	2020			_	for Approval
				PENDING	To-date
				REVIEW	
41	21	13	7	1	33

# **TAMPs with Dates Received and Approved by TAMC:**

1. Ottawa County –	22. Huron County Road Commission –
TAMPs received 12/09/2019 and 01/19/2021	TAMP received 10/01/2020
Updated TAMP uploaded	Approved by Council 03/03/2021
Approved by Council 11/04/2020	
2. Iosco County Road Commission –	23. City of Royal Oak –
TAMP received 03/09/2020	TAMP received 10/06/2020
Approved by Council 11/04/2020	Approved by Council 03/03/2021
3. Oceana County Road Commission –	24. City of Southfield –
TAMP received 09/03/2020	TAMP received 11/20/2020
Approved by Council 11/04/2020	Approved by Council 03/03/2021
4. Cheboygan County Road Commission	25. City of Farmington Hills –
TAMP received 09/16/2020	TAMP received 12/01/2020 and
Approved by Council 11/04/2020	9/29/2021
	Approved by Council 03/03/2021
5. Alger County Road Commission	26. Clinton County Road Commission –
TAMP received 09/23/2020	TAMP received 10/02/20
Approved by Council 11/04/2020	Approved by Council 03/03/2021
6. Wayne County Road Commission -	27. Lenawee County Road Commission –
TAMP received 09/29/2020	TAMP received 10/02/20
Approved by Council 11/04/2020	Approved by Council 03/03/2021
7. Macomb County Department of Roads –	28. Dickinson County Road Commission –
TAMP received 09/29/2020	TAMP received 10/28/2020
Approved by Council 11/04/2020	Approved by Council 03/03/2021
8. Genesee County Road Commission -	29. City of Ann Arbor –
TAMP received 09/30/2020	TAMP received 10/07/2020
Approved by Council 11/04/2020	Approved by Council 05/05/2021

9. Berrien County Road Department –	30. City of Dearborn Heights –
TAMP received 09/30/2020	TAMP received 04/20/2021
Approved by Council 11/04/2020	Approved by Council 06/02/2021
10. City of Walker –	31. City of Kentwood
TAMP received 09/30/2020	TAMP received 04/22/2021
Approved by Council 11/04/2020	Approved by Council 06/02/2021
11. City of Lansing –	32. City of Norton Shores –
TAMP received 09/30/2020 and 08/11/2021	TAMP received 04/26/2021
Approved by Council 11/04/2020	Approved by Council 07/07/2021
12. Muskegon County –	33. City of Portage
TAMP received 09/30/2020	TAMP received 09/10/2021
Approved by Council 11/04/2020	ACE Approved 11/04/2021
ripproved by Council 11/04/2020	Requesting approval by Council
	01/05/2022
13. City of Livonia –	
TAMP received 09/30/2020	
Approved by Council 11/04/2020	
14. Osceola County Road Commission –	
TAMP received 10/01/2020	
Approved by Council 11/04/2020	
15. Monroe County Road Commission –	
TAMP received 10/01/2020	
Approved by Council 11/04/2020	
16. St. Joseph County Road Commission –	
TAMP received 10/12/2020	
Approved by Council11/04/2020	
17. Calhoun County –	
TAMP received 10/19/2020	
Approved by Council 11/04/2020	
18. City of Troy –	
TAMP received 08/28/2020	
Approved by Council 03/03/2021	
19. Road Commission of Kalamazoo Count-	
TAMP received 09/30/2020	
Approved by Council 03/03/2021	
20. City of Grand Rapids –	
TAMP received 09/30/2020	
Approved by Council 03/03/2021	
21. Sanilac County – TAMP received 09/30/2020	
and 11/09/2020 updated TAMP uploaded	
Approved by Council 03/03/2021	

# **Group A Agencies that Have Not Submitted Their TAMPs:**

1. Baraga County	5. Mason County
2. Bay County	6. Midland County
3. Hillsdale County	7. City of Romulus – 12/06/2019 -
	Agency only submitted a one-page
	project table. 10/28/2020 – Agency
	contacted via email table not

	acceptable. Agency will submit their TAMP as soon as possible. 04/2021 – Agency continues to work on TAMP. 06/30/2021 – I
	checked the IRT and still no
	TAMP uploaded from agency.
4. City of Jackson	

# **Agency TAMPs Requiring Additional Information**

The following agency TAMP requires additional information as noted. TAMC support staff will work with each agency to assist them with meeting the Act requirements.

## City of Wyoming – TAMP Received – 09/21/2020 and 09/22/2021 –

10/29/2020 – Agency was contacted via email requesting missing Bridges, Culverts and Traffic Signal Asset Inventories and Agency Proof of TAMP Approval. 11/02/2020 – Agency informed me the information was not uploaded and agency will go out and upload it into the IRT; 11/05/2020 – Agency informed support staff that they are still working on their TAMP; 02/26/2021 – I checked and there are no new updates in IRT. 04/09/2021 – Agency contacted via email and I inquired about status of their TAMP. Still awaiting a response. 06/30/2021 – I checked in the IRT and no updates have been made by the agency. 10/27/2021 – Pavement TAMP was only updated with approval from governing board. I called Russ Henckel and he is still working on the Compliance Plan and did not include bridges, culverts, signals. He stated he should have the TAMP completed in the near future. 12/16/2021 – As of this date, nothing has been updated in the IRT.

# Michigan Department of Transportation TAMP

Although the Michigan Department of Transportation (MDOT) is not listed amongst the agencies in Group A, TAMC would like to acknowledge that MDOT submits their TAMP to the Federal Highway Administration (FHWA) every four years. The MDOT TAMP was certified by FHWA on July 12, 2018, therefore, MDOT's next TAMP is not due until July 12, 2022 (four years from when FHWA certified their first TAMP). 11/2021 - MDOT has started preparing the MDOT TAMP that is required to be submitted to FHWA by July 12, 2022.

Respectfully submitted, Gloria M. Strong January 5, 2022 TAMC Group A TAMP Status Update 01.05.2022



# **January 5, 2021**

# **GROUP B**

Based upon my review of the following transportation agencies TAMPs and the approval to forward on to the Council from the TAMC ACE Committee on 11/03/2021, I am recommending and requesting approval of the following agencies TAMPs from the Council:

- 1. Emmet County
- 2. Washtenaw County
- 3. City of Rochester Hills
- 4. Livingston County
- 5. Road Commission of Oakland County
- 6. Alpena County
- 7. City of Battle Creek
- 8. City of Kalamazoo
- 9. City of Saginaw
- 10. Marquette County Road Commission
- 11. Wexford County Road Commission
- 12. Houghton County Road Commission
- 13. Mackinac County Road Commission

Based upon my review of the following transportation agencies TAMPs, I am recommending approval of the following agencies from the TAMC ACE Committee to be submitted for approval to the Council:

- 1. City of Port Huron
- 2. Gogebic County

## **Group B TAMPs Current Status:**

				Pending	Total TAMPs
				Review or	Received
# of Group B	# TAMPs	# TAMPs	# TAMPs Not	Awaiting	&
Agencies Due	Received by	Received After	Submitted	Additional	Recommended
by October 1,	October 1,	October 1, 2020		Information	for Approval
2021	2021			_	To-date
41	15	6	21	6	15

# **TAMPs with Dates Received:**

1 Vant County	22.
1. Kent County TAMP received 02/06/2021	22.
Pending Review (Submitted in TAMP Survey)	
2. Gogebic County	23.
TAMP received 03/24/2021 & 11/09/2021	23.
Recommending Approval to ACE 01/05/2022	
3. Emmet County	24.
TAMP received 09/09/2021	24.
Approved by ACE 11/03/2021	
Requesting approval from Council	
01/05/2022	
4. Washtenaw County	25.
TAMP received 09/14/2021	25.
Approved by ACE 11/03/2021	
Requesting approval from Council	
01/05/2022	
5. City of Rochester Hills	26.
TAMP received 09/23/2021	
Approved by ACE 11/03/2021	
Requesting approval from Council	
01/05/2022	
6. Livingston County	27.
TAMP received 09/24/2021	
Approved by ACE 11/03/2021	
Requesting approval from Council	
01/05/2022	
7. Road Commission of Oakland County	28.
TAMP received 09/27/2021	
Approved by ACE 11/03/2021	
Requesting approval from Council 01/05/2022	
8. Montmorency County (Submitted in	29.
TAMP Survey)	
TAMP received 09/27/2021	
Pending Review	
9. Alpena County	30.
TAMP received 09/28/2021	
Approved by ACE 11/03/2021	
Requesting approval from Council	
01/05/2022	
10. City of Battle Creek	31.
TAMP received 09/28/2021	
Approved by ACE 11/03/2021	
Requesting approval from Council 01/05/2022	
11. City of Kalamazoo	32.
TAMP received 09/29/2021	
Approved by ACE 11/03/2021	
Requesting approval from Council 01/05/2022	

12. Marquette County Road Commission TAMP received 09/30/2021 Approved by ACE 11/03/2021 Requesting approval from Council 01/05/2022	33.
13. City of Saginaw TAMP received 09/30/2021 Approved by ACE 11/03/2021 Requesting approval from Council 01/05/2022	34.
14. Wexford County Road Commission TAMP received 09/30/2021 Approved by ACE 11/03/2021 Requesting approval from Council 01/05/2022	35.
15. City of Roseville TAMP received 09/30/2021 Pending Additional Information	36.
16. City of Dearborn TAMP received 10/01/2021 Pending additional information	37.
17. Houghton County Road Commission TAMP received 10/06/2021 Approved by ACE 11/03/2021 Requesting approval from Council 01/05/2022	38.
18. Van Buren County TAMP received 10/12/2021 Pending additional information	39.
19. Missaukee County TAMP received 10/15/2021 Pending additional information	40.
20. Mackinac County Road Commission TAMP received 10/28/2021 Approved by ACE 11/03/2021 Requesting approval from Council 01/05/2022	41.
21. City of Port Huron TAMP received 12/15/2021 Requesting approval from ACE 01/05/2022	

# **Group B Agencies that Have Not Submitted Their TAMPs:**

1. Alcona County	14. Menominee County		
2. Arenac County	15.Newaygo County		
3. Benzie County	16. Ontonagon County		
4. City of Burton	17. Otsego County		
5. Charlevoix County	18. Shiawassee County		
6. Clare County	19. City of St. Clair Shores		
7. City of Detroit	20. City of Taylor		
8. City of Garden City			
9. Gratiot County			
10. Ionia County			
11. Isabella County			
12. Lake County			
13. Leelanau County			

# **Agency TAMPs Requiring Additional Information**

The following agency TAMP requires additional information. TAMC support staff will work with each agency to assist them with meeting the Act requirements.

- 1. City of Roseville
- 2. City of Dearborn
- 3. Van Buren County
- 4. Missaukee County Road Commission

## \*Agency TAMPs Received Pending Review

- 1. Kent County
- 2. Montmorency County

#### Michigan Department of Transportation TAMP

Although the Michigan Department of Transportation (MDOT) is not listed amongst the agencies in Group A, TAMC would like to acknowledge that MDOT submits their TAMP to the Federal Highway Administration (FHWA) every four years. The MDOT TAMP was certified by FHWA on July 12, 2018, therefore, MDOT's next TAMP is not due until July 12, 2022 (four years from when FHWA certified their first TAMP). MDOT has begun working on their TAMP for 2022.

Respectfully submitted,
Gloria M. Strong
January 5, 2022
TAMC Group B TAMP Status Update 01.05.2022

<sup>\*</sup>The above agencies submitted their agency TAMP under the "TAMP Survey" in the IRT. Agencies have been notified to resubmit in the "TAMP Submission" in the IRT.

Date	Event	Council Member or TAMC Support Staff	Time & Location	TAMC Booth	Presentation	Comments and added Information / website / flyer
OCTOBER		TAME Support Starr			No	
10/278/21 - 10/28/21	Fall Transportation Asset Management Virtual Conference		9 AM - 1 PM Each Day	No	Yes	https://www.michigan.gov/tamc/0,7308,7-356-82157,00.html
NOVEMBER					No	
11/4/21	State Transportation Commission Meeting		MDOT Aeronautics & Web Meeting	No	No	
DECEMBER					No	
12/9/21	MIC Meeting	Pagar Palknan/Dava	1 PM - 4 PM - Web Meeting	No	No	
12/14/21	TAMC IRT Training	Roger Belknap/Dave Jennett	WEBINAR: 9 AM-Noon	No	Yes	
12/15/21 JANUARY	Roadsoft User's Conference - RUCUS	TAMC Support Staff	Mt. Pleasant - 8 AM-5PM	No	Yes	http://ctt.nonprofitsoapbox.com/component/events/event/1126
1/20/22	State Transportation Commission Meeting		Mt. Pleasant City Hall, City Commission Chambers, 401 N. Main Street, Mt. Pleasant, MI 48858 9 AM - Noon	No	Could Present Updated TAMC Work Program?	
1/25/22	TAMC IRT Training		WEBINAR: 9 AM-Noon	No	Yes	
FEBRUARY						
2/8/2022 - 2/10/2022	County Engineers Workshop		Hybrid - Web & Shanty Creek	No	?	http://ctt.nonprofitsoapbox.com/upcoming-events/event/1087
2/22/22	TAMC IRT Training		WEBINAR: 9 AM-Noon	No	Yes	
2/22/22	Culvert Asset Management Training		WEBINAR: 9 AM-11AM	No	Yes	http://ctt.nonprofitsoapbox.com/component/events/event/1133
TBD	PASER & IBR Training		TBD	No	Yes	
MARCH						
3/1/2022	Culvert Asset Management Training		WEBINAR: 9 AM-11AM	No	Yes	http://ctt.nonprofitsoapbox.com/component/events/event/1134
3/8/2022	TAMC IRT Training		WEBINAR: 9 AM-Noon	No	Yes	
3/8/22 - 3/10/22	Annual CRA Highway Conference & Roadshow		Lansing Center, Lasing, MI	?	?	https://info.micountyroads.org/events/details/2022-highway-conference-and-road-show-576
3/15/22-3/16/22	Michigan Municipal League Capital Conference		Lansing, TBD	?	?	
3/15/22 - 3/17/22	2021 Michigan Bridge Week Conference		Ann Arbor Marriott Ypsilanti at Eagle Crest 1275 S Huron Street, Ypsilanti, MI, 48197	No	Yes	http://ctt.nonprofitsoapbox.com/component/events/event/1090
TBD	PASER & IBR Training		TBD	No	Yes	
APRIL						
4/19/22	TAMC IRT Training		WEBINAR: 9 AM-Noon	No	Yes	
4/26/2022-4/27/2022	2022 Highway Maintenance Conference		Shanty Creek Resort, 5780 Shanty Creek Rd, Bellaire, MI,49615	No		http://ctt.nonprofitsoapbox.com/component/events/event/1089
TBD MAY	PASER & IBR Training		TBD			
5/10/22	TAMC IRT Training		WEBINAR: 9 AM-Noon	No	Yes	
JUNE						
TBD JULY	PASER IBR Training Series 3		TBD	No	Yes	
7/26/22 - 7/29/22	MTPA Annual Conference		THE UNIVERSITY OF MICHIGAN-FLINT RIVERFRONT BANQUET CENTER & THE HILTON GARDEN INN FLINT	No	Opportunity	
AUGUST						
TBD	TAMC Conference		Great Wolf Lodge, Traverse City, MI has been proposed as venue Times are TBD	No	Yes	
			p. aparata do rende innes die 190			