



**Akron Metropolitan Area Transportation Study  
Policy Committee  
Ballroom A - Hilton Garden Inn  
1307 E. Market St., Akron, Ohio**

Thursday, May 16, 2019  
1:30 p.m.

**Agenda**

1. **Call to Order**
  - A. Determination of a Quorum Oral
  - B. Audience Participation\*
2. **Minutes**
  - A. March 21, 2019 Meeting – **Motion Required** Attachment 2A
3. **Staff Reports**
  - A. Financial Progress Report – **Motion Required** Attachment 3A
  - B. Technical Progress Report Oral
  - C. AMATS Federal Funds Report Attachment 3C
4. **Old Business**
5. **New Business**
  - A. Preservation Needs Report – **Motion Requested** Attachment 5A
6. **Resolutions**
  - A. **Resolution Number 2019-05** – To Reestablish Transportation Conformity for Ozone and Fine Particulate Matter Standards in the Cleveland-Akron-Lorain Area. – **Motion Required** Attachment 6A
  - B. **Resolution 2019-06** – Approving Amendment #18 to the Transportation Improvement Program FY 2018-2021 to add two new projects. – **Motion Required** Attachment 6B
  - C. **Resolution 2019-07** – Approving the FY 2020 Transportation Planning Work Program and Budget. – **Motion Required** Attachment 6C
  - D. **Resolution 2019-08** – Reaffirming the Approval of the Regional Transportation Plan and the Transportation Improvement Program, and Affirming the Consistency between the Regional Transportation Plan, the Transportation Improvement Program, and the State Implementation Plan. – **Motion Required** Attachment 6D
  - Resolution 2019-09** – Certification of the Urban Transportation Planning Process. – **Motion Required**
  - E. **Resolution 2019-10** – Approving Amendment #19 to the Transportation Improvement Program FY 2018-2021 to add one new project. Attachment 6E  
– **Motion Required**

- MORE -

**7. Other Business**

A. Presentation by METRO RTA and PARTA regarding designated state funding for transit.

Oral

**8. Adjournment**

**Next Regular Meeting:**

**Thursday, June 20, 2019 - 1:30 PM**

**Ballroom A - Hilton Garden Inn**

**1307 E. Market St., Akron, Ohio**

\* Any individual or representative of a group may take three (3) minutes to address the Policy Committee on any topic on the agenda. Anyone desiring more time than provided herein shall notify the Director by the Friday preceding the committee meeting so that they may be placed on the agenda for a maximum of five (5) minutes.

**All mailout material is available on the AMATS Web Site at [www.amatsplanning.org](http://www.amatsplanning.org)**



**Akron Metropolitan Area Transportation Study  
Technical Advisory Committee  
Ballroom A - Hilton Garden Inn  
1307 E. Market St., Akron, Ohio**

Thursday, May 9, 2019  
1:30 p.m.

**Agenda**

1. **Call to Order**
  - A. Determination of a Quorum Oral
2. **Minutes**
  - A. March 14, 2019 Meeting – **Motion Required** Attachment 2A
3. **Staff Reports**
  - A. Financial Progress Report – **Motion Required** Attachment 3A
  - B. Technical Progress Report Oral
  - C. AMATS Federal Funds Report Attachment 3C
4. **Old Business**
5. **New Business**
  - A. Preservation Needs Report – **Motion Requested** Attachment 5A
6. **Resolutions**
  - A. **Resolution Number 2019-05** – To Reestablish Transportation Conformity for Ozone and Fine Particulate Matter Standards in the Cleveland-Akron-Lorain Area. – **Motion Required** Attachment 6A
  - B. **Resolution 2019-06** – Approving Amendment #18 to the Transportation Improvement Program FY 2018-2021 to add two new projects. – **Motion Required** Attachment 6B
  - C. **Resolution 2019-07** – Approving the FY 2020 Transportation Planning Work Program and Budget. – **Motion Required** Attachment 6C
  - D. **Resolution 2019-08** – Reaffirming the Approval of the Regional Transportation Plan and the Transportation Improvement Program, and Affirming the Consistency between the Regional Transportation Plan, the Transportation Improvement Program, and the State Implementation Plan. – **Motion Required** Attachment 6D
  - Resolution 2019-09** – Certification of the Urban Transportation Planning Process. – **Motion Required**
  - E. **Resolution 2019-10** – Approving Amendment #19 to the Transportation Improvement Program FY 2018-2021 to add one new project. – **Motion Required** Attachment 6E
7. **Other Business**

- MORE -

**8. Adjournment**

**Next Regular Meeting:**

**Thursday, June 20, 2019 - 1:30 PM**

**Ballroom A - Hilton Garden Inn**

**1307 E. Market St., Akron, Ohio**

**All mailout material is available on the AMATS Web Site at [www.amatsplanning.org](http://www.amatsplanning.org)**



**Akron Metropolitan Area Transportation Study  
Citizens Involvement Committee  
Meeting Room 1  
Akron-Summit County Public Library – Akron Main Public Library  
60 South High Street, Akron, Ohio**

Thursday, May 9, 2019  
6:30 p.m.

**Agenda**

1. **Welcome**
2. **Introductions**
3. **Discussion Items**
  - A. Preservation Needs Report.
  - B. Bike Month Events.
4. **Open Discussion**
5. **Adjournment 7:45 P.M.**

Next Regular Meeting:  
Thursday, June 20, 2019 - 6:30 p.m.  
Location – To Be Announced

**All mailout material is available on the AMATS Web Site at [www.amatsplanning.org](http://www.amatsplanning.org)**

**Akron Metropolitan Area Transportation Study  
Policy Committee  
Thursday, March 21, 2019 – 1:30 p.m.**

**Minutes of Meeting**

Recordings of AMATS committee meetings are available in the Podcast section of the agency web site at [www.amatsplanning.org/category/meetings/](http://www.amatsplanning.org/category/meetings/).

**I. Call to Order**

**A. Chairwoman Beshara** called the meeting to order in Ballroom A of the Hilton Garden Inn. The attending members constituted a quorum.

**B. Audience Participation**

None.

**C. Curtis Baker** explained that the addition of Attachment 6B – Resolution 2019-04 necessitated a new REVISED agenda per the Policy Committee Bylaws. **Mr. Baker** said that the acceptance of the revised agenda by the Policy Committee required a formal motion, a second to the motion and a vote by the committee.

**Motion**

*David G. Kline made a motion to approve the REVISED Agenda and it was seconded by Michael Marozzi.*

**Steve Rebillot** stated that the Main Street Corridor Phase 2 project described in Resolution 2019-04 – TIP Amendment #17 does not include any MPO funding and is funded by a TIGER grant and the city of Akron.

*The motion was approved by a voice vote.*

**II. Minutes – Motion Required**

**A. Approval of Minutes**

Members were asked to approve the minutes of the January 24, 2019 meeting.

**Motion**

*Linda Clark made a motion to approve the minutes and it was seconded by Bill Goney. The motion was approved by a voice vote.*

**III. Staff Reports**

**A. Financial Progress Report**

Mr. Baker presented Attachment 3A.

**Motion**

**Jim Bowling** made a motion to approve the Financial Progress Report and it was seconded by **Joe Paradise**. The motion was approved by a voice vote.

**B. Technical Progress Report**

Mr. Baker said that Gov. DeWine's transportation funding proposals would be discussed later during the meeting under *New Business* Item 5B.

Mr. Baker said that development of the *Bike and Pedestrian Plan* is underway.

Mr. Baker said that additional products pertaining to the update of the long-range Regional Transportation Plan to 2045 will be forthcoming. These products include freight, congestion and safety analyses.

**C. AMATS Federal Funds Report**

David Pulay presented Attachment 3C and tables concerning STBG, CMAQ and TASA Funding Program and Balances dated February 25, 2019.

Mr. Rebillot noted that ODOT PID# 89113 - Canton Road/US 224 project sponsored by the Summit County Engineer's office listed in the STBG Funding Program and Balances table for FY 2019 was awarded March 14, 2019.

**IV. Old Business**

None.

**V. New Business**

**A. Draft Bike and Pedestrian Plan.**

Darryl Kleinhenz presented a status report regarding the development of the *Draft Bike and Pedestrian Plan* for 2019.

Mayor Adamson asked for a definition of the term "road diet." Mr. Kleinhenz explained that a road diet reduces the number of travel lanes on a roadway and then adjusts or reassigns the space for other uses and travel modes.

**B. Discussion of Letter Endorsing Gov. DeWine's Funding Proposals.**

Mr. Baker stated that, during the Policy Committee's Jan. 24 meeting, the committee authorized Chairwoman Beshara and the Staff to prepare a letter stating the committee's support for Gov. DeWine's funding proposals. Mr. Baker said that a letter was prepared and mailed to the Greater Akron area's state legislative delegation, legislative leaders, and other state leaders.

**Mr. Baker** described the various funding proposals being debated in the Ohio General Assembly and the status of these proposals in the legislative process.

**Mayor Bertrand** expressed his support for an increase in the state motor fuel fee to fund infrastructure needs. **Mayor Bertrand** urged the committee members to relay their support for an increase to their respective state representatives and state senators. **Mayor Bertrand** noted that many communities and counties have suffered since 2010 from the lack of local government funds.

**Mayor Kline** concurred with Mayor Bertrand with regards to community needs. **Mayor Kline** said that he contacted his community's members of the area's state legislative delegation. **Mayor Kline** said that the members were reluctant to support Gov. DeWine's proposals because they feared that doing so would harm their re-election chances.

**Mr. Baker** noted that a six cent increase in the motor fuel fee would not likely generate enough revenue to cover ODOT's debt service, which doesn't include the Ohio Turnpike's debt. **Mr. Baker** noted that the governor's original proposal to index a fee increase to the rate of inflation was rejected and is not part of the current funding debate. **Mr. Baker** said that AMATS and METRO officials recently met with state Rep. Bill Roemer who explained the state legislature's objection to such a clause on the grounds that it cedes the body's taxation power to bureaucrats.

**Michael Marozzi** concurred with Mayor Kline's comments about the reluctance of the area's legislators to support a fee increase.

**Chairwoman Beshara** noted that she would meet Gov. DeWine soon and offered to relay the committee's concerns to him. **Mr. Marozzi** praised the governor for his funding proposals.

## **VI. Resolutions**

- A. Resolution 2019-03 – Approving Amendment #16 to the Transportation Improvement Program FY 2018-2021 to revise the funding and schedule to an existing project.**

**Mr. Pulay** presented Attachment 6A.

### **Motion**

*Lou Bertrand made a motion to approve Resolution 2019-03 and it was seconded by Michael Marozzi. The motion was approved.*

- B. Resolution 2019-04 – Approving Amendment #17 to the Transportation Improvement Program FY 2018-2021 to revise funding to an existing project.**

**Mr. Pulay** presented Attachment 6B.



**Motion**

*Jim Bowling made a motion to approve Resolution 2019-04 and it was seconded by Amy Mohr. The motion was approved.*

**VII. Other Business**

**A. AMATS Support for State Funding Increase for Transit.**

**Mr. Baker** explained that, during the recent discussions regarding the Policy Committee's statement to state leaders expressing support for an increase in state motor fuel fees, METRO officials suggested that such a statement urge additional state support for public transit. **Mr. Baker** noted that AMATS has not issued a formal resolution or a statement expressing support for a dedicated source of funding for transit needs.

**Mr. Baker** added that ODOT provides transit agencies with federal "flex" funds, which are highway project funds that may be used for transit capital needs, but not operating needs. **Mr. Baker** said that operating concerns are greater than the capital needs of many transit agencies across the state. **Mr. Baker** noted that, during its discussion of this issue, the TAC requested that METRO and PARTA provide financial data regarding their respective needs.

**Mr. Baker** then opened the floor to discussion as to whether the Policy Committee should issue a statement regarding state funding for transit.

**Claudia Amrhein** said that the funding needs facing the state's transit agencies are great. **Ms. Amrhein** said that ODOT compiled a comprehensive statewide transit needs study in 2015 that addressed the status of transit service across Ohio and identified potential policy actions to improve service in the future. **Ms. Amrhein** said that the state has not followed up on any of the actions identified in the study.

**Ms. Amrhein** said that, in considering how to present the financial status of the Greater Akron area's transit authorities to the Policy Committee, PARTA and METRO officials discussed whether to ask the committee for its support of a dedicated funding source for transit from the state. Noting the transit authorities' support for a proposed increase in motor fuel fees for highway improvement needs, **Ms. Amrhein** said that a dedicated source of transit funding is the authorities' preferred funding source rather than using revenue which would have otherwise been used for improvement projects. **Dawn Distler** concurred with Ms. Amrhein's comments.

**Mr. Baker** asked the members if they preferred to view a presentation regarding the authorities' financial positions or whether they wished to proceed with a statement regarding the need for a state-level dedicated funding source for public transit.

**Mr. Marozzi** said that he would be supportive of such a statement if he was assured that it would not result in the state taking funding from highway needs given the current debates regarding the transportation budget. **Mr. Baker** said that an appropriate time for the issuance of such a statement by AMATS might be during the upcoming debate regarding the state's General Revenue Budget, which is due in June.

**Mr. Baker** asked if PARTA and METRO officials could make a presentation during the May 16 Policy Committee meeting regarding ODOT's aforementioned *2015 Comprehensive Statewide Transit Needs Study* and the goals identified in the study. **Ms. Amrhein** and **Ms. Distler** said that the authorities could do so. **Chairwoman Beshara** said that the presentation would be included in the May meeting agenda.

## **VIII. Adjournment**

- A. **Motion**  
*Bill Goncy made a motion to adjourn the meeting and it was seconded by Lou Bertrand. The motion was approved.*

The next regularly scheduled Policy Committee meeting will be at **1:30 p.m.** on **Thursday, May 16, 2019** in **Hilton Garden Inn, Ballroom A** located at **1307 E. Market St.** in **Akron.**

**AMATS POLICY COMMITTEE  
2019 ATTENDANCE**

<b>M Denotes Member Present</b>	<b>Jan</b>	<b>Mar</b>	<b>May</b>	<b>June</b>	<b>Sept</b>	<b>Dec</b>
<b>A Denotes Alternate Present</b>	<b>24</b>	<b>21</b>	<b>16</b>	<b>27</b>	<b>26</b>	<b>19</b>
<b>AKRON</b> - Mayor Dan Horrigan (Hardy) (DiFiore)	A	A				
<b>AURORA</b> - Mayor Ann Womer Benjamin (Stark) (Januska)	A					
<b>BARBERTON</b> - Mayor William B. Judge (Stefan) (Vinay)						
<b>BOSTON HEIGHTS</b> - Mayor Bill Goncy (Polyak)		M				
<b>CLINTON</b> - Mayor Al Knack						
<b>CUYAHOGA FALLS</b> - Mayor Don Walters (Zumbo)	A*	A				
<b>DOYLESTOWN</b> - Mayor Terry Lindeman (Kerr)	A	A				
<b>FAIRLAWN</b> - Mayor William Roth (Spagnuolo) (Staten)	A					
<b>GARRETTSVILLE</b> - Mayor Rick Patrick (Klamer)						
<b>GREEN</b> - Mayor Gerard Neugebauer (Wax Carr)	A					
<b>HIRAM</b> - Mayor Lou Bertrand (J. McGee)		M				
<b>HUDSON</b> - Jane Howington (Comeriatto) (Hannan) (Sheridan)	A					
<b>KENT</b> - City Mgr. David Ruller (Baker) (Bowling)	A	A				
<b>LAKEMORE</b> - Mayor Rick Justice (Fast)						
<b>MACEDONIA</b> - Mayor Nick Molnar (Gigliotti) (Sheehy)						
<b>MANTUA</b> - Mayor Linda Clark (Iafelice) (Trew)		M				
<b>METRO</b> - Dawn Distler (Shea)	M	M				
<b>MOGADORE</b> - Mayor Michael Rick						
<b>MUNROE FALLS</b> - Mayor James W. Armstrong (Bowery)						
<b>NEW FRANKLIN</b> - Mayor Paul Adamson (Kepler) (Kochheiser)	M	M				
<b>NORTHFIELD</b> - Mayor Jesse Nehez (Magistrelli)						
<b>NORTON</b> - Mayor Mike Zita						
<b>ODOT</b> - John Picuri (Noirot) (Rebillot)	A	A				
<b>PARTA</b> - Rick Bissler (Amrhein) (Hairston) (Manning) (Trautman)	M	A				
<b>PENINSULA</b> - Mayor Douglas Mayer						
<b>PORTAGE COUNTY COMM.</b> - Kathleen Clyde (Hairston)						
<b>PORTAGE COUNTY COMM.</b> - Vicki Kline (Long)						
<b>PORTAGE COUNTY COMM.</b> - Sabrina Christian-Bennett (Hlad)		A				
<b>PORTAGE COUNTY ENGINEER</b> - Michael Marozzi (Kusner)	M	M				
<b>RAVENNA</b> - Mayor Frank Seman (Finney)	A					
<b>REMINDEVILLE</b> - Mayor Sam Alonso (Krock)						
<b>RICHFIELD</b> - Mayor Bobbie Beshara (Darwish) (Papp)		M				
<b>SILVER LAKE</b> - Mayor Bernie Hovey (Housley)						
<b>STOW</b> - Mayor John Pribonic (Kurtz) (McCleary)	A	M				
<b>STREETSBORO</b> - Mayor Glenn Broska (Cieszkowski)		A				
<b>SUGAR BUSH KNOLLS</b> - Mayor John Guidubaldi						
<b>SUMMIT COUNTY ENGINEER</b> -Al Brubaker (Fulton) (Paradise)	A	A				
<b>SUMMIT COUNTY EXECUTIVE</b> - Ilene Shapiro (Genet)						
<b>SUMMIT COUNTY COMM. &amp; ECON. DEV.</b> - Connie Krauss						
<b>SUMMIT COUNTY COMM. &amp; ECON. DEV.</b> - Carissa G. Signore						
<b>TALLMADGE</b> - Mayor David Kline (Kidder)	A	M				
<b>TWINSBURG</b> - Mayor Ted Yates (Mohr) (Finch)	A	A				
<b>WAYNE COUNTY COMM. BOARD</b> - Dominic Oliverio (Broome)		M				
<b>WINDHAM</b> - Mayor Deborah Blewitt						

**AMATS POLICY COMMITTEE  
2019 ATTENDANCE**

**OBSERVERS AND STAFF MEMBERS PRESENT**

<b><u>NAME</u></b>	<b><u>REPRESENTING</u></b>
Mr. James D. McCleary	Stow
Mr. Art Rometo	Thrasher
Mr. Chad Root	ODOT District 4
Mr. Curtis Baker	AMATS
Mr. Darryl Kleinhenz	AMATS
Mr. Jeffrey Gardner	AMATS
Mr. Kerry Prater	AMATS
Mr. Dave Pulay	AMATS

**Akron Metropolitan Area Transportation Study  
Technical Advisory Committee  
Thursday, March 14, 2019 – 1:30 p.m.**

**Minutes of Meeting**

Recordings of AMATS committee meetings are available in the Podcast section of the agency web site at [www.amatsplanning.org/category/meetings/](http://www.amatsplanning.org/category/meetings/).

**I. Call to Order**

- A. Chairman Joe Stefan** called the meeting to order in Ballroom A of the Hilton Garden Inn. The attending members constituted a quorum.

**II. Minutes – Motion Required**

**A. Approval of Minutes**

Members were asked to approve the minutes of the January 17, 2019 meeting.

**Motion**

*James McCleary made a motion to approve the minutes and it was seconded by Amy Mohr. The motion was approved by a voice vote.*

**III. Staff Reports**

**A. Financial Progress Report**

**Curtis Baker** presented Attachment 3A.

**Motion**

*Tony Demasi made a motion to approve the Financial Progress Report and it was seconded by John Kovacich. The motion was approved by a voice vote.*

**B. Technical Progress Report**

**Mr. Baker** said that Gov. DeWine’s transportation funding proposals would be discussed later during the meeting under *New Business* Item 5B.

**Mr. Baker** said that development of the *Bike and Pedestrian Plan* is underway.

**Mr. Baker** said that additional products pertaining to the update of the long-range Regional Transportation Plan to 2045 will be forthcoming.

**C. AMATS Federal Funds Report**

**David Pulay** presented Attachment 3C and tables concerning STBG, CMAQ and TASA Funding Program and Balances dated February 25, 2019.

**Joe Paradise** asked how much project funding will be available through AMATS during Fiscal Year 2019. **Mr. Paradise** noted that there was a proposal to cut ODOT Discretionary Program funds. **Mr. Baker** said that the reduction in discretionary funds to AMATS would be 6 percent in FY 2021. **Mr. Baker** said that, if there is no resolution to the legislative debate regarding ODOT's budget, the department is expected to instruct MPOs to maintain their current budgets.

#### **IV. Old Business**

None.

#### **V. New Business**

##### **A. Draft Bike and Pedestrian Plan.**

**Darryl Kleinhenz** presented a status report regarding the development of the *Draft Bike and Pedestrian Plan* for 2019.

**Mr. Kleinhenz** said that AMATS conducts pedestrian counts using manual methods and its MioVision-brand camera. **Mr. Kleinhenz** noted that the agency recently began using the StreetLight Data app to collect additional information. **Mr. Baker** described the StreetLight Data app as a database of cell phone use. **Mr. Baker** said that this database is available for public entities to use through a contract with ODOT. **Mr. Baker** described the app's capabilities and uses.

**Mr. Kleinhenz** encouraged the members to share information about cycling and pedestrian events with AMATS. **Mr. Kleinhenz** said that the agency is interested in promoting and serving as an information hub regarding such events through its web sites and newsletter.

**Mike Teodecki** described how Akron is using walking tours as a public engagement tool with the public and affected businesses during Phase I and II of its TIGER-funded Main Street reconstruction project.

##### **B. Discussion of Letters Endorsing Gov. DeWine's Funding Proposals.**

**Mr. Baker** stated that, during the Policy Committee's Jan. 24 meeting, the committee authorized Chairwoman Beshara and the Staff to prepare a letter stating the committee's support for Gov. DeWine's funding proposals. **Mr. Baker** said that a letter was prepared and mailed to the Greater Akron area's state legislative delegation, legislative leaders, and other state leaders.

**Mr. Baker** described the various funding proposals being debated in the Ohio General Assembly and the status of these proposals in the legislative process.

**Mr. Paradise** noted that the governor's proposals included a potential license plate fee increase which would be earmarked to villages, townships and cities. **Mr. Paradise** said that this represents a change in funding policies as county governments were given the first right of refusal to use these funds. **Mr.**

**Paradise** explained that, if counties declined these funds, then villages, townships and cities were given the option to use them.

**Mr. Paradise** said that the Summit County Engineer's office recently met with three area legislators and suggested that villages, townships and cities have the first right of refusal for funding with the understanding that counties may then receive any funding that local governments decline.

**Chris Papp** asked whether the Ohio General Assembly removed Gov. DeWine's proposal to index the motor fuel fee to the rate of inflation. **Mr. Baker** said that the inflation clause was rejected by the legislature. **Mr. Baker** said that AMATS and METRO officials recently met with state Rep. Bill Roemer who explained the legislature's objection to such a clause on the grounds that it cedes the body's taxation power to bureaucrats.

## **VI. Resolutions**

- A. Resolution 2019-03 – Approving Amendment #16 to the Transportation Improvement Program FY 2018-2021 to revise the funding and schedule to an existing project.**

**Mr. Pulay** presented Attachment 6A.

### **Motion**

***Joe Paradise** made a motion to approve Resolution 2019-03 and it was seconded by **Jim McCleary**. The motion was approved.*

## **VII. Other Business**

- A. AMATS Support for State Funding Increase for Transit.**

**Mr. Baker** said that the use of state motor fuel fees to fund public transit is against Ohio law. **Mr. Baker** said that, despite various funding sources for capital expenses, transit authorities need operating funds. **Mr. Baker** asked the members whether the Policy Committee should prepare a letter urging state legislators to consider a dedicated funding source for public transit in the current transportation funding debate.

The members discussed whether a portion of a potential increase in state motor fuel fees should be used to support public transit needs across the state.

**Claudia Amrhein** said that transit authorities have generally supported the arguments for increasing the state's motor fuel fee to meet Ohio's transportation infrastructure needs. **Ms. Amrhein** expressed support for a dedicated source of funding for transit. **Valerie Shea** stated that METRO Executive Director Dawn Distler concurs with Ms. Amrhein.

**Chris Papp** asked what sort of potential funding sources could be used to support transit. **Mr. Baker** said that out-of-state car sales taxes, rental car taxes, and local parking fees are among the sources being considered.

**Mr. Paradise** asked how METRO receives its current sources of funding. **Ms. Shea** said that METRO is funded by a Summit County sales tax and state and federal grants. **Mr. Paradise** asked if METRO could provide a pie chart detailing its sources of funding and expenses. **Ms. Shea** agreed to provide such information.

### **VIII. Adjournment**

There being no other business, the meeting was adjourned.

The next regularly scheduled TAC meeting will be at **1:30 p.m.** on **Thursday, May 9, 2019** in the **Hilton Garden Inn, Ballroom A** located at **1307 E. Market St.** in **Akron.**



**AMATS TECHNICAL ADVISORY COMMITTEE  
2019 ATTENDANCE**

	Jan 17	Mar 14	May 9	June 20	Sept 19	Dec 12
<b>M Denotes Member Present</b>						
<b>A Denotes Alternate Present</b>						
<b>AKRON ENGINEERING BUREAU</b> - Michael J. Teodecki (Jonke)	M	M				
<b>AKRON PLANNING DEPT.</b> - Jim Hewitt (Tomic)						
<b>AKRON TRAFFIC ENGINEERING</b> - Michael Lupica	M					
<b>AURORA</b> - Harry Stark (Czekaj)	A	A				
<b>BARBERTON</b> - Joseph Stefan (Vinay)						
<b>CUYAHOGA FALLS</b> - Fred Guerra (Paul)	M	M				
<b>CUYAHOGA FALLS</b> - Tony V. Demasi (Marko)	M	M				
<b>DOYLESTOWN</b> - Eng. Assoc. - Ronny Portz						
<b>FAIRLAWN</b> - Nicholas Spagnuolo (Staten)	A	A				
<b>GREEN</b> - Wayne Wiethe (Haring)	M					
<b>GREEN</b> - Paul Pickett (Schemansky)						
<b>HUDSON</b> - Kris McMaster (Kosco) (Sheridan)	M	M				
<b>KENT</b> - Jim Bowling	M					
<b>KENT</b> - Jon Giaquinto (Baker)						
<b>LAKEMORE</b> – Mayor Rick Justice (Fast)						
<b>MACEDONIA</b> - Joseph Gigliotti (Sheehy)						
<b>METRO</b> - Dawn Distler (Shea)	A	A				
<b>MOGADORE</b> – Vacant						
<b>MUNROE FALLS</b> – Vacant						
<b>NEFCO</b> - Joe Hadley						
<b>NEW FRANKLIN</b> - Bryan Kepler	M	M				
<b>NORTHFIELD</b> - Richard S. Wasosky		M				
<b>NORTON</b> - David White						
<b>ODOT</b> - Gery Noirot (Rebillot) (Root)	A	A				
<b>PARTA</b> – Claudia Amrhein (Hairston) (Manning) (Popik) (Trautman)	M	M				
<b>PORTAGE COUNTY ENGINEER</b> - James Kusner (Collins) (Marozzi)	M	A				
<b>PORTAGE CO. REG. PLANNING COMM.</b> - Todd Peetz (McGee)						
<b>PORTAGE COUNTY SMALL VILLAGES</b> – John Trew	M	M				
<b>PORTAGE COUNTY TOWNSHIP ASSOC</b> – John Kovacich (Greener)	M	M				
<b>RAVENNA</b> - Bob Finney (Jeffers)	A					
<b>RICHFIELD</b> - Chris Papp (Frantz) (Neumeyer)	M	M				
<b>SILVER LAKE</b> – John Tutak						
<b>STOW</b> – James McCleary (Donovan)	M	M				
<b>STOW</b> – Mike Jones (Sisson)	A	A				
<b>STREETSBORO</b> – John H. Cieszkowski, Jr. (Broska)	M	M				
<b>SUMMIT CO. COMM. &amp; ECON. DEV.</b> - Carissa G. Signore (Krauss)						
<b>SUMMIT COUNTY ENGINEER</b> - Alan Brubaker (Fulton) (Paradise)	A	A				
<b>SUMMIT COUNTY SMALL VILLAGES</b> - Mayor Rick Justice						
<b>SUMMIT COUNTY TOWNSHIP ASSOC.</b> - Richard Reville (Funk)	A					
<b>TALLMADGE</b> - Andrea Kidder (Kline)		M				
<b>TWINSBURG</b> - Amy Mohr (Moczadlo)	M	M				
<b>WINDHAM</b> - Deborah Blewitt (Snyder)						

**AMATS TECHNICAL ADVISORY COMMITTEE  
2019 ATTENDANCE**

<b>M Denotes Member Present</b>	<b>Jan</b>	<b>Mar</b>	<b>May</b>	<b>June</b>	<b>Sept</b>	<b>Dec</b>
<b>A Denotes Alternate Present</b>	<b>17</b>	<b>14</b>	<b>9</b>	<b>20</b>	<b>19</b>	<b>12</b>

**NON-VOTING MEMBERS**

<b>AKRON CANTON AIRPORT - Renato Camacho</b>	
<b>AKRON REG. AIR QUALITY MGT. DISTRICT – Sam Rubens</b>	
<b>AMATS - Curtis Baker</b>	M
<b>CUYAHOGA VALLEY NATIONAL PARK – Vacant</b>	
<b>ENVIRONMENTAL COMMUNITY REP. - Kurt Princic</b>	
<b>GREATER AKRON CHAMBER - Gregg Cramer (West)</b>	
<b>OHIO TURNPIKE COMMISSION – Anthony Yacobucci</b>	
<b>PORTAGE COUNTY PORT AUTHORITY – Vacant</b>	
<b>PORTAGE PARK DISTRICT - Christine Craycroft</b>	
<b>PRIVATE TRANSPORTATION PROVIDER (CYC) – Deb Stolfo (Posten)</b>	A
<b>RAILROAD INDUSTRY REP. - William A. Callison (Davis)</b>	
<b>SUMMIT COUNTY PORT AUTHORITY – Vacant</b>	
<b>SUMMIT METRO PARKS – Mark Szeremet (Hauber) (King)</b>	M
<b>TRUCKING INDUSTRY – Vacant</b>	

**OBSERVERS AND STAFF MEMBERS PRESENT**

<b><u>NAME</u></b>	<b><u>REPRESENTING</u></b>
Ms. Judy Bennett	AECOM
Ms. Sara Cooper	Aurora
Ms. Vickie Kline	Portage County Commissioner
Ms. Melissa Long	Portage County Commissioner
Ms. Gina Reim	MCDA Consulting
Mr. Tony Urankar	MS

**STAFF MEMBERS PRESENT**

Ms. Heather Davis Reidl	AMATS
Mr. Jeff Gardner	AMATS
Mr. Darryl Kleinhenz	AMATS
Mr. Kerry Prater	AMATS
Mr. Dave Pulay	AMATS

**Akron Metropolitan Area Transportation Study  
Citizens Involvement Committee  
Thursday, March 14, 2019 – 6:30 p.m.**

**Meeting Summary**

Recordings of AMATS committee meetings are available in the Podcast section of the agency web site at [www.amatsplanning.org/category/podcasts/](http://www.amatsplanning.org/category/podcasts/).

**Attendees:**

Joel Helms  
William Maki

Marilyn Shea-Stonum  
Fred Wise

**Staff:**

Curtis Baker, Director  
Jeff Gardner, Transportation Planner  
Darryl Kleinhenz, Planner

**I. Welcome**

**Curtis Baker** welcomed the AMATS Citizens Involvement Committee (CIC) meeting attendees.

**II. Introductions**

The attendees introduced themselves.

**III. Discussion Items**

**A. AMATS Letters of Support Regarding Gov. DeWine’s Funding Proposals.**

**Mr. Baker** stated that, during the Policy Committee’s Jan. 24 meeting, the committee authorized Chairwoman Beshara and the Staff to prepare a letter stating the committee’s support for Gov. DeWine’s funding proposals. **Mr. Baker** said that a letter was prepared and mailed to the Greater Akron area’s state legislative delegation, legislative leaders, and other state leaders.

**William Maki** asked if the AMATS Citizens Involvement Committee (CIC) and AMATS Policy Committee approved resolutions expressing support for gas tax increases in 2018. **Mr. Baker** said yes. **Mr. Maki** asked if the resolutions were forwarded to the region’s state legislative delegation. **Mr. Baker** said yes.

The attendees discussed the potential impacts on public transit that may result in a final state transportation budget.

**Mr. Maki** expressed support for an increase in motor fuel fees as a means to address the state's bridge and highway needs.

**Fred Wise** noted that improving vehicle fuel mileage and the use of electric vehicles has resulted in declining revenues from fuel fees.

**B. Development of Draft Bike and Pedestrian Plan.**

**Darryl Kleinhenz** described development of the *Draft Bike and Pedestrian Plan* for 2019.

**Mr. Maki** asked whether AMATS still produces and compiles aerial photos every five years. **Mr. Baker** explained that the counties compile aerial photos and share them with the agency under a data-sharing agreement.

The members discussed the accuracy of the draft plan's identification of 230 miles of bike lanes on Greater Akron area roadways and the definition of such lanes by communities.

**Mr. Wise** asked if the final plan would identify the current condition and surfaces of trails. **Mr. Baker** said that the Staff had not contemplated doing so, but would consider Mr. Wise's suggestion.

**Mr. Kleinhenz** noted that the crash data being used to develop the draft plan came from the AMATS *2015-2017 Traffic Crash Report*. The attendees discussed bike-related crashes, injuries and fatalities.

**Marilyn Shea-Stonum** said that NEO Star (Northeast Ohio Safe Trails and Roads) has approached area transit authorities about posting messages on their buses reminding drivers about such topics as the dangers of sun glare on driver visibility and Ohio's three-foot rule regarding cyclists.

The attendees discussed the compilation of bike-riding data through the StreetLight Data app and its uses in regional transportation planning.

The attendees discussed how paths and trails should be defined, marked and ranked.

**IV. Adjournment**

There being no other business, the meeting was adjourned.

The next meeting of the CIC will be **6:30 p.m. on Thursday, May 9, 2019** at the **Akron-Summit County Public Library - Main Library** located at **60 South High Street** in Akron.

**FINANCIAL PROGRESS REPORT**  
**AKRON METROPOLITAN AREA TRANSPORTATION STUDY**  
**March 31, 2019**

Description	Annual Budget	Year-to-Date Expenses	% Budget Expended	March Expenses
<b>I. Short Range Planning</b>	<b>\$408,000</b>	<b>\$389,191</b>	<b>95%</b>	<b>\$50,895</b>
FY2018 Carryover	108,000	107,843		0
FY2019	300,000	281,348		50,895
<b>II. Transportation Improvement Program</b>	<b>\$412,900</b>	<b>\$117,275</b>	<b>28%</b>	<b>\$12,018</b>
FY2018 Carryover	112,900	81,891		0
FY2019	300,000	35,383		12,018
<b>III. Continuing Planning &amp; Data Collection Transportation System Update</b>	<b>\$240,000</b>	<b>\$118,455</b>	<b>49%</b>	<b>\$10,334</b>
FY2018 Carryover	60,000	56,904		0
FY2019	180,000	61,552		10,334
<b>IV. Long Range Plan Activity</b>	<b>\$424,000</b>	<b>\$158,921</b>	<b>37%</b>	<b>\$23,996</b>
FY2018 Carryover	74,000	72,774		0
FY2019	350,000	86,146		23,996
<b>V. Service</b>	<b>\$398,016</b>	<b>\$234,132</b>	<b>59%</b>	<b>\$17,657</b>
FY2018 Carryover	67,000	60,807		0
FY2018 Planning Grants Carryover	11,016	11,016		0
FY2019	320,000	162,309		17,657
<b>VII. OhioRideshare and AQ Advocacy</b>	<b>\$157,500</b>	<b>\$66,771</b>	<b>42%</b>	<b>\$3,783</b>
FY2018 OhioRideshare Carryover	10,000	9,822		0
FY2019 OhioRideshare	60,000	25,376		1,119
FY2019 Air Quality	87,500	31,573		2,665
<b>VIII. Local</b>	<b>\$25,000</b>	<b>\$27,884</b>	<b>112%</b>	<b>\$2,645</b>
AMATS local Costs	25,000	27,884		2,645
<b>IX. AMATS Transportation Quarterly</b>	<b>\$67,737</b>	<b>\$32,804</b>	<b>48%</b>	<b>\$3,273</b>
FY2018 Carryover	13,100	13,065		0
FY2019	54,637	19,739		3,273
<b>X. GRAND TOTAL AMATS BUDGET</b>	<b>\$2,133,153</b>	<b>\$1,145,433</b>	<b>54%</b>	<b>\$124,602</b>

**AKRON METROPOLITAN AREA TRANSPORTATION STUDY****M E M O R A N D U M**

**TO:** Policy Committee  
Technical Advisory Committee  
Citizens Involvement Committee

**FROM:** AMATS Staff

**RE:** AMATS Federal Funds Report

**DATE:** May 16, 2019

TAC TIP Meeting

The Technical Advisory Committee Transportation Improvement Program Subcommittee (TAC TIP) met on Thursday April 25<sup>th</sup>. At the meeting we discussed collecting Pavement Condition Index (PCI) data for the entire AMATS area by one company. This would provide us with more consistent data and to use software that would help manage pavement PCI levels. AMATS is seeking Letters of Interest (LoI) from qualified firms to develop this program. Another topic discussed was limiting the number of projects that a sponsor can be awarded to three projects per funding category. The committee will tentatively meet again on Thursday May 23<sup>rd</sup> to discuss some other items. We will present the proposed changes to the Funding Policy Guidelines for your approval at the June meetings.

Project Review Meeting

A Project Review Meeting was held on Friday April 12<sup>th</sup> at ODOT District 4. Many of the sponsors of resurfacing projects requested moving them up if there is any way possible. We understand that it is hard to wait years to resurface when the pavement is already deteriorated and will try to advance them if larger projects slip and funds become available. This is a result of over programming while also keeping the TIP fiscally restrained.

Other Funding News

Applications for new CMAQ projects are being accepted this summer and will be due by July 31<sup>st</sup>. Please submit them as early as possible because we have to process them for air quality improvement. Applications for STBG, Resurfacing and TASA will also be accepted this summer and will be due by August 31<sup>st</sup>. This is earlier than previous years so that they can be reviewed, scored and projects selected by the December committee meetings.

**AMATS TRANSPORTATION IMPROVEMENT PROGRAM  
STBG Funding Program and Balances**

April 22, 2019

ODOT PID	STP PROJECT NAME	SPONSOR	PHASE	FY 2019	Quarter	FY 2020	Quarter	FY 2021	FY 2022	FY 2023
	<i>Sold</i>									
97638	Cleveland-Massillon Rd Ph 2 & 3	Norton	(R)C	\$4,970,238	2					
107812	Graham Rd Resurfacing	Stow	C	\$700,000	3					
93819	Howe Ave	Cuy Falls	(P)(R)C	\$4,805,373	3					
107679	Infirmary Rd Resurfacing	Portage Co Eng	C	\$555,318	4					
89113	Canton Rd/US 224	Summit Co Eng	C	\$3,149,474	4					
	<i>Pending</i>									
84397	Seiberling Way Ph 1	Akron	P(R)(C)	\$24,668						
107761	Aurora Citywide Signal Improvement	Aurora	R(C)	\$60,000						
103293	Cleveland Massillon Rd	Fairlawn	R(C)	\$200,000	2					
96562	SR 18/SR 261 curb ramps	Akron	C	\$30,640	3					
103085	Medina Line Rd-part 2 resurfacing	Summit Co Eng	C	\$743,600	4					
107961	Sanitarium Rd resurfacing	Lakemore	C	\$153,764	4					
103818	Portage Lakes Dr resurfacing	Summit Co Eng	C	→		\$161,200				
88556	Tallmadge Ave/Dayton St	Akron	(R)C			\$2,484,000	1			
90415	SR 241 (Massillon Rd)	Green	(R)C			\$3,520,000				
93822	SR 91 (Darrow Rd)	Hudson	(P)C			\$2,800,000				
107261	S. Medina Line Rd-Ph 1 resurfacing	Norton	C			\$381,700				
110168	SR 59 curb ramps	Kent	C			\$150,000				
98486	US 224 paving/cubr ramps	Akron	C			\$150,000				
99725	Canton Rd resurfacing	Summit Co Eng	C			\$800,000				
108133	E Waterloo Rd PH 1 resurfacing	Akron	C			\$700,000				
108134	E Waterloo Rd PH 2 resurfacing	Akron	C			\$401,343				
108132	South Hawkins Rd resurfacing	Akron	C					\$700,000		
84397	Seiberling Way Ph 1	Akron	(P)(R)C					\$4,118,390		
102701	E. Exchange St-complete street	Akron	R(C)					\$240,000		
102904	W. Steels Corners Rd-phase 1 resurfacing	Cuy Falls	C					\$700,000		
103172	Massillon Rd (SR 241) Ph 2/Corporate Woods	Green	R					\$1,398,346		
102234	SR 14 widening	Streetsboro	C					\$2,172,329		
108200	White Pond Dr resurfacing	Summit Co Eng	C					\$600,000		
103293	Cleveland Massillon Rd	Fairlawn	(R)C					\$277,000		
107761	Aurora Citywide Signal Improvement	Aurora	(R)C					\$3,458,040		
108498	Wooster Rd resurfacing	Norton	C					\$291,200		
108372	Wooster Rd North resurfacing	Barberton	C					\$278,912	←	
108374	Norton Rd resurfacing	Barberton	C					\$488,248	←	
108375	S Van Buren Ave resurfacing	Barberton	C					\$424,232	←	
108499	W Waterloo Rd resurfacing	Barberton	C					\$191,744	←	
108370	Wooster Rd/State St reconstruction	Barberton	C					→	\$1,930,644	
108467	Cleveland Massillon Rd Part 1 Resurfacing	Summit Co Eng	C					\$700,000		
108468	Cleveland Massillon Rd Part 2 Resurfacing	Summit Co Eng	C					\$700,000		
108454	Olde Eight Road Resurfacing	Summit Co Eng	C					\$700,000		
108140	Ravenna Rd Part 1 resurfacing	Summit Co Eng	C					\$700,000		
105373	2nd St SW resurfacing	Barberton	C					\$408,422		
102701	E. Exchange St-complete street	Akron	(R)C					\$3,600,000		
107794	South Main St South resurfacing	New Franklin	C					\$700,000		
107795	South Main St North resurfacing	New Franklin	C					\$453,471		
108865	Smith Rd resurfacing	Summit Co Eng	C					\$700,000		
107886	North River Rd resurfacing	Munroe Falls	C							\$558,590
108453	Akron Cleveland Rd Resurfacing	Summit Co Eng	C							\$700,000
108141	Valley View Rd resurfacing	Summit Co Eng	C							\$300,000
108240	Wooster Rd West reconstruction	Barberton	C							\$5,507,836
107689	Mill Rd/S. Diamond St Resurfacing	Ravenna	C							\$268,000
108084	Portage Trail Extension Turn Lane	Cuy Falls	C							\$3,649,197
106416	SR 43 Widening	Streetsboro	C							\$858,657
108098	Chestnut Blvd Resurfacing	Cuy Falls	C							\$392,000

P = Engineering

R = Right-of-Way

C = Construction

→ Requested schedule change

	2019	2020	2021	2022	2023
Annual STBG Expenditures	\$15,862,257	\$11,548,243	\$15,338,441	\$10,592,537	\$12,234,280
Annual STBG Allocations	\$15,688,470	\$10,398,064	\$10,633,414	\$10,364,318	\$10,333,992
Balance	-\$173,787	-\$1,150,179	-\$4,705,027	-\$228,219	-\$1,900,288

**AMATS TRANSPORTATION IMPROVEMENT PROGRAM  
CMAQ Funding Program and Balances**

April 22, 2019

ODOT PID	CMAQ PROJECT NAME	SPONSOR	PHASE	FY 2019	Quarter	FY 2020	Quarter	FY 2021	FY 2022	FY 2023
	<i>Sold</i>									
97833	Air Quality Advocacy Program	AMATS		\$87,500	1					
97830	Rideshare Program	AMATS		\$60,000	1					
99825	PARTA bus purchase	PARTA	C	\$800,000	2					
103293	Cleveland Massillon Rd	Fairlawn	R(C)	\$127,291	2					
99879	Streetsboro citywide signal upgrade	Streetsboro	(P)C	\$2,948,766	2					
	<i>Pending</i>									
93442	SR 43 (South Water St)*	Kent	R(C)	\$75,520						
99826	METRO bus purchase	METRO	C	\$2,200,000						
98585	Tallmadge Rd Interchange	Portage Co Eng	R(C)	\$40,000	2					
103171	SR 162-Copley Rd/Cleveland Massillon Rd	Summit Co Eng	C	\$40,947	4					
93433	Canton Rd/East Market St	Akron	R(C)	\$400,000	4					
97834	Air Quality Advocacy Program	AMATS				\$100,000				
97831	Rideshare Program	AMATS				\$60,000				
108131	Cleveland Massillon Rd/Ridgewood Rd	Summit Co Eng	C			\$280,000				
100692	Air Quality Advocacy Program	AMATS						\$96,000		
100691	Rideshare Program	AMATS						\$80,000		
93433	Canton Rd/East Market St	Akron	(R)C					\$800,000		
102992	CNG Bus Replacement	PARTA	C					\$832,000		
98585	Tallmadge Rd Interchange	Portage Co Eng	(R)C					\$3,400,000		
103293	Cleveland Massillon Rd	Fairlawn	(R)C					\$4,462,924		
103173	Massillon Rd (SR 241) Ph 3/Boettler	Green	R(C)					→ \$445,500		
103173	Massillon Rd (SR 241) Ph 3/Boettler	Green	(R)C						→ \$2,827,600	
103172	Massillon Rd/Corporate Woods Cir PH 2	Green	C						\$2,606,199	
	Air Quality Advocacy Program	AMATS							\$80,000	
	Rideshare Program	AMATS							\$60,000	
	CNG Bus Buy 2022	PARTA	C						\$920,000	
106445	SR 91-13.53 (SR 91 South Widening Project)	Hudson	C						\$2,500,000	
	Air Quality Advocacy Program	AMATS								\$80,000
	Rideshare Program	AMATS								\$60,000
106416	SR 43 Widening	Streetsboro	C							\$3,300,775
	CNG Bus Buy	METRO	C							\$1,560,000

P = Engineering

R = Right-of-Way

C = Construction

→ Requested schedule change

	2019	2020	2021	2022	2023
Annual CMAQ Expenditures	\$6,873,302	\$440,000	\$10,116,424	\$8,993,799	\$5,000,775
Annual CMAQ Allocations	\$6,581,048	\$5,591,127	\$4,793,200	\$4,592,728	\$4,412,576
Balance	-\$292,254	\$5,151,127	-\$5,323,224	-\$4,401,071	-\$588,199



**AMATS TRANSPORTATION IMPROVEMENT PROGRAM  
TASA Funding Program and Balances**

April 22, 2019

ODOT PID	TAP PROJECT NAME	SPONSOR	PHASE	FY 2019	Quarter	FY 2020	FY 2021	FY 2022	FY 2023
	<b>Sold</b>								
102625	Brittain Rd-sidewalk	Akron	(P)C	\$137,000	2				
103028	SR 18 Walkway-phase 1	Summit Co Eng	(P)(R)C	\$306,944	4				
89113	Canton Rd/US 224	Summit Co Eng	C	\$450,000	4				
	<b>Pending</b>								
102625	Brittain Rd-sidewalk	Akron	P(C)	\$13,000	1				
103028	SR 18 Walkway-phase 1*	Summit Co Eng	P(R)(C)	\$19,686	1				
103028	SR 18 Walkway-phase 1	Summit Co Eng	(P)R(C)	\$8,000	2				
107963	The Portage Trail - NS Bridge Link	Portage Co Eng	P(C)	→		\$40,000			
99728	Moore Rd sidewalks	Green	C			\$500,000			
97856	Veterans Trail-Ph 1	Hudson	C			\$500,000			
107814	Darrow Rd (SR 91) Sidewalks	Stow	R(C)			\$74,131			
107963	The Portage Trail - NS Bridge Link	Portage Parks	(P)C	→		\$313,600			
99729	Raber Rd sidewalks	Green	C			\$500,000			
103834	Portage Hike and Bike-Brady's Leap Connection	Kent	C			\$700,000			
107814	Darrow Rd (SR 91) Sidewalks	Stow	(R)C			\$516,050			
102796	Freedom Trail/Portage Trail Connector	MetroParks/Tallmadge	C					\$700,000	
105373	Towpath Trail Connector-Magic Mile	Barberton	C					\$422,640	
107797	CVNP Ped Bridge & Trail	Summit Co Eng	C					\$700,000	
107930	Freedom Trail Phase 4	MetroParks	C						\$700,000

P = Engineering

R = Right-of-Way

C = Construction

→ Requested schedule change

	2019	2020	2021	2022	2023
Annual TASA Expenditures	\$939,140	\$1,114,131	\$2,029,650	\$1,822,640	\$700,000
Annual TASA Allocations	\$1,401,752	\$1,063,342	\$994,090	\$979,229	\$965,875
Balance	\$462,612	-\$50,789	-\$1,035,560	-\$843,411	\$265,875

**AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**M E M O R A N D U M**

**TO:** Policy Committee  
Technical Advisory Committee

**FROM:** AMATS Staff

**RE:** Highway Preservation Needs Report

**DATE:** May 1, 2019

As part of the planning process to complete the 2045 Regional Transportation Plan, the attached *Highway Preservation Needs Report* has been developed. The purpose of this report is to identify and evaluate the preservation needs of the existing highway system. It describes the highway system in the AMATS region and estimates the required cost needed to maintain and preserve it in an acceptable condition.

Pavement resurfacing and replacement needs and bridge preservation needs are described and evaluated in the report. AMATS and statewide values for Pavement Condition Rating (PCR) and National Highway System (NHS) bridge ratings by year were included to evaluate performance measures.

The total estimated cost for highway preservation between now and 2045 is approximately \$3.78 billion, valued in 2019 dollars. The estimated cost will be considered in *Transportation Outlook 2045*.

The Staff recommends approval of the *Highway Preservation Needs Report*. The final report will be posted on the AMATS website at [amatsplanning.org](http://amatsplanning.org).

# **HIGHWAY PRESERVATION NEEDS REPORT**

May 2019

Akron Metropolitan Area Transportation Study  
161 S. High St., Suite 201/Akron, Ohio 44308  
Phone: (330) 375-2436  
FAX: (330) 375-2275

This report was prepared by the Akron Metropolitan Area Transportation Study (AMATS) in cooperation with the U.S. Department of Transportation, the Ohio Department of Transportation, and the Village, City and County governments of Portage and Summit Counties and Chippewa and Milton Township in Wayne County. The contents of this report reflect the views of AMATS, which is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official view and policies of the Ohio and/or U.S. Department of Transportation. This report does not constitute a standard, specification or regulation.

## **Introduction**

The Akron Metropolitan Area Transportation Study (AMATS) recognizes that maintaining and preserving the existing highway system should be a priority of the transportation planning process. Therefore, the purpose of this report is to estimate the federal funds (in 2019 dollars) needed to preserve and maintain the existing highway system between now and 2045. This report will not list specific maintenance projects; however, it will describe the existing highway system and outline highway resurfacing and replacement needs as well as bridge maintenance and replacement needs.

All highway system preservation projects on the federal aid system will be considered consistent with the Regional Transportation Plan, named *Transportation Outlook 2045*, and will be eligible for federal funding as it becomes available. Highway maintenance items, such as shoulder and drainage improvements, pavement repairs, guardrail, fence replacement, pavement markings, signage, lighting and painting are included in the estimated costs for highway resurfacing and bridge maintenance. The findings of this report will be used in determining the portion of anticipated federal funding that should be reserved for highway projects to ensure maintenance and preservation of the existing highway system over the life of *Transportation Outlook 2045*.

## **Existing Highway System**

### Roadways

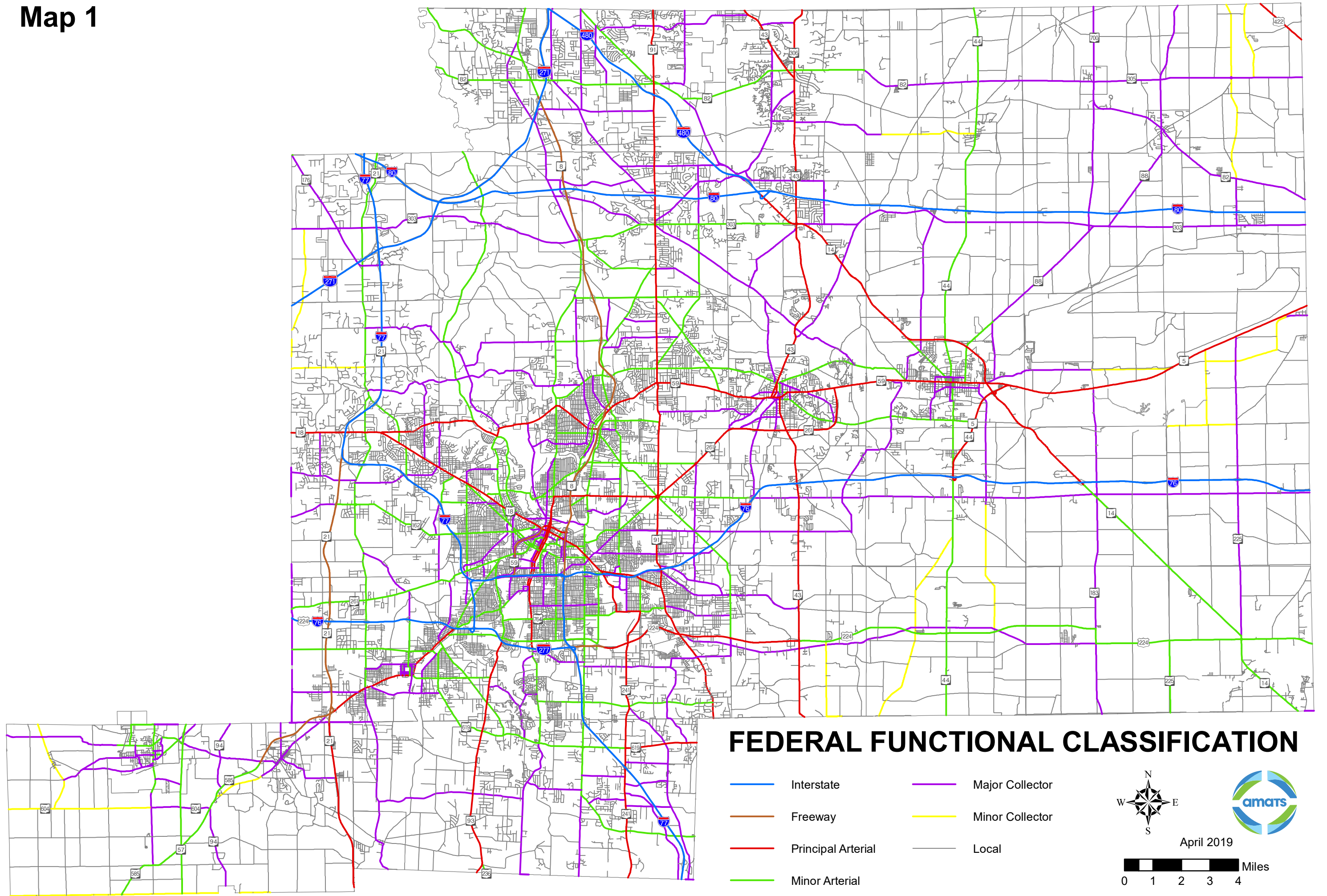
The Akron metropolitan area contains 4,774 miles of roadways. Map 1 shows the roadways by federal functional classification. Local roads are exhibited on the map for reference and are shown as thin light grey lines in the background. Table 1 shows the length in miles and lane miles for each roadway classification.

**Table 1: Mileages by Roadway Classification**

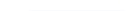



<b>Federal Functional Classification</b>	<b>Length (in Miles)</b>	<b>Number of Lane Miles</b>
Interstate	100	462
Expressway	35	171
Ohio Turnpike (I-80)	34	192
Principal Arterial	190	567
Minor Arterial	356	911
Major Collector	516	1,119
Minor Collector	64	127
Local	3,479	6,990
<b>Totals:</b>	<b>4,774</b>	<b>10,539</b>

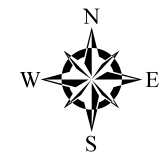
Please note that minor collectors and local roads are not considered part of the federal aid system; therefore, they are not eligible for federal funding and will not be included in the pavement cost estimates in the subsequent sections. The local jurisdiction or the county in which they are located assumes responsibility for maintaining these roadways.

# Map 1



## FEDERAL FUNCTIONAL CLASSIFICATION

- |   |                    |   |                 |
|---|--------------------|---|-----------------|
|  | Interstate         |  | Major Collector |
|  | Freeway            |  | Minor Collector |
|  | Principal Arterial |  | Local           |
|  | Minor Arterial     |   |                 |



April 2019

0 1 2 3 4 Miles

The Ohio Department of Transportation (ODOT) has developed a rating method in order to determine the extent and severity of pavement deterioration on roadways. This rating, known as Pavement Condition Rating (PCR), is obtained by observing settlements, the extent and frequency of pavement erosion, and measurements of cracks and faulting in asphalt or concrete pavements. Calculated by a mathematical formula using data gathered in the field, the PCR is a single numeric value between 0 and 100 that is used to describe a pavement's condition at a given point in time. The higher this value is, the better the pavement condition. When the pavement PCR value drops below 65, an overlay or rehabilitation should be considered. However, ODOT may prioritize projects for pavement rehabilitation or reconstruction depending on the availability and distribution of federal funds.

Table 2 lists the Lane Miles and percentages for National Highway System (NHS) roadways based on Good, Fair, and Poor roadway pavement condition. This table is also subdivided by interstate and non-interstate and includes a comparison of AMATS and statewide roadways. The PCR ratings for interstates generally have better PCR ratings than non-interstates for the AMATS area and statewide. Interstates have higher traffic volumes and generally are given priority over other roadways. However, non-interstates provide more access and still need to be maintained. Also, statewide roadways seem to be better maintained than those within the AMATS area.

**Table 2: PCR Ratings for Interstate and Non-interstate (AMATS and Statewide)**

<b>Interstate</b>								
<b>AMATS - Lane Miles</b>					<b>Statewide - Lane Miles</b>			
<b>Year</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>Total</b>	<b>SW Good</b>	<b>SW Fair</b>	<b>SW Poor</b>	<b>Total</b>
2010	355.3	949.2	0.0	1,305	6,371	9,529	1.1	15,901
2011	397.5	903.8	2.4	1,304	5,467	10,414	56.9	15,938
2012	382.1	919.8	2.4	1,304	5,456	10,584	18.3	16,058
2013	367.0	934.8	1.8	1,304	5,701	10,423	6.4	16,131
2014	399.9	897.5	6.1	1,304	5,671	10,471	18.6	16,161
2015	164.1	1157.8	7.0	1,329	5,514	10,711	20.9	16,246
2016	567.8	753.9	0.8	1,323	9,838	6,401	14.5	16,254
2017	768.3	583.0	6.6	1,358	10,624	5,854	21.2	16,498
<b>AMATS - %</b>					<b>Statewide - %</b>			
<b>Year</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>Total</b>	<b>SW Good</b>	<b>SW Fair</b>	<b>SW Poor</b>	<b>Total</b>
2010	27%	73%	0.0%	100%	40%	60%	0.0%	100%
2011	30%	69%	0.2%	100%	34%	65%	0.4%	100%
2012	29%	71%	0.2%	100%	34%	66%	0.1%	100%
2013	28%	72%	0.1%	100%	35%	65%	0.0%	100%
2014	31%	69%	0.5%	100%	35%	65%	0.1%	100%
2015	12%	87%	0.5%	100%	34%	66%	0.1%	100%
2016	43%	57%	0.1%	100%	61%	39%	0.1%	100%
2017	57%	43%	0.5%	100%	64%	35%	0.1%	100%

**Table 2: PCR Ratings for Interstate and Non-interstate (AMATS and Statewide)  
(continued)**

**Non- Interstate**

AMATS - Lane Miles					Statewide - Lane Miles			
Year	Good	Fair	Poor	Total	SW Good	SW Fair	SW Poor	Total
2010	210.7	367.1	0.0	578	7,717	8,602	1	16,320
2011	226.4	356.0	3.6	586	6,503	9,773	61	16,337
2012	240.8	669.6	20.1	930	8,544	14,835	180	23,559
2013	279.5	667.4	7.9	955	8,052	15,806	89	23,948
2014	178.8	764.7	10.1	954	8,305	15,547	119	23,972
2015	169.3	771.9	14.4	956	7,654	16,185	180	24,018
2016	317.7	757.0	32.1	1,107	11,192	13,217	311	24,719
2017	315.6	626.0	38.3	980	11,118	14,629	363	26,110
AMATS - %					Statewide - %			
Year	Good	Fair	Poor	Total	SW Good	SW Fair	SW Poor	Total
2010	36%	64%	0.0%	100%	47%	53%	0.0%	100%
2011	39%	61%	0.6%	100%	40%	60%	0.4%	100%
2012	26%	72%	2.2%	100%	36%	63%	0.8%	100%
2013	29%	70%	0.8%	100%	34%	66%	0.4%	100%
2014	19%	80%	1.1%	100%	35%	65%	0.5%	100%
2015	18%	81%	1.5%	100%	32%	67%	0.7%	100%
2016	29%	68%	2.9%	100%	45%	53%	1.3%	100%
2017	32%	64%	3.9%	100%	43%	56%	1.4%	100%

AMATS also calculated the average PCR for each community/county to determine the average condition of roadways throughout the entire AMATS area. Table 3 lists each community with its corresponding average PCR based on lane miles. Please note that the red numbers in Table 3 signify a reduction in PCR rating from 2016 to 2018. This list does not include local roadways, which could have a better PCR rating. Local roadways are not examined because they are not eligible for federal funds. In general, the average PCR ratings in the AMATS area improved from 2016 to 2018.

A full map of PCR ratings can be found on the ODOT TIMS website located at: <https://gis.dot.state.oh.us/tims/>. Please be sure to select both “PCR (state)” and “PCR (local)” for more detailed information in your community. Please note “PCR (local)” is defined as “Non-State Route” in Table 3 to avoid confusion.

The AMATS Pavement Analysis Program will start in 2019. This program will collect more detailed pavement condition data along functionally classified roadways in the AMATS area. This data will replace the ODOT PCR data and will become the standard for AMATS’s future pavement analyses.

**Table 3: Average PCR by Community**

Political Unit	State Route Average PCR			Non-State Route Average PCR			Total Average PCR		
	2016	2018	Change	2016	2018	Change	2016	2018	Change
Portage Co. Unincorporated	81.61	84.21	2.60	76.44	84.94	8.50	80.26	84.46	4.19
Aurora	88.57	81.68	6.89	68.69	82.22	13.53	82.04	81.90	0.14
Garrettsville	87.59	87.85	0.26				87.59	87.85	0.26
Hiram	80.37	93.70	13.33				80.37	93.70	13.33
Kent	80.39	81.79	1.40	73.76	78.35	4.59	77.46	79.93	2.47
Mantua	83.64	83.33	0.31				83.64	83.33	0.31
Mogadore (POR)				86.00	71.00	15.00	86.00	71.00	15.00
Ravenna	76.80	74.69	2.11	78.18	74.22	3.96	77.51	74.41	3.10
Streetsboro	77.58	77.83	0.25	68.93	80.77	11.85	74.28	79.15	4.87
Tallmadge (POR)				70.54	70.54	0.00	70.54	70.54	0.00
Windham	76.75	75.83	0.92	85.46	90.26	4.80	80.32	82.53	2.22
<b>Portage Co. Totals</b>	<b>81.58</b>	<b>83.25</b>	<b>1.66</b>	<b>75.01</b>	<b>82.69</b>	<b>7.68</b>	<b>79.61</b>	<b>83.04</b>	<b>3.43</b>
Summit Co. Unincorporated	82.92	88.01	5.09	77.34	80.24	2.89	79.19	82.78	3.59
Akron	78.61	80.17	1.56	70.26	73.40	3.14	73.11	75.54	2.43
Barberton	75.19	70.28	4.91	72.49	72.08	0.41	72.94	71.86	1.09
Boston Heights	78.00	93.61	15.61	71.64	91.81	20.17	73.22	92.67	19.45
Clinton				42.67	44.60	1.92	42.67	44.60	1.92
Cuyahoga Falls	69.54	96.04	26.49	72.40	72.44	0.03	72.34	75.61	3.27
Fairlawn	97.23	87.33	9.89	65.27	73.06	7.78	78.81	77.98	0.83
Green	82.39	74.94	7.45	75.93	77.77	1.84	78.02	76.98	1.05
Hudson	87.16	84.76	2.40	79.02	74.75	4.27	82.22	77.70	4.52
Lakemore				66.41	66.41	0.00	66.41	66.41	0.00
Macedonia	84.24	90.98	6.74	66.68	75.85	9.17	75.58	83.18	7.60
Mogadore (SUM)	75.13	73.00	2.13	76.88	73.02	3.86	76.30	73.02	3.28
Munroe Falls	81.03	79.49	1.54	74.44	65.80	8.64	77.87	71.95	5.92
New Franklin	91.78	84.58	7.20	43.00	81.73	38.73	69.92	83.16	13.24
Northfield	84.51	82.00	2.51				84.51	82.00	2.51
Norton	79.72	65.08	14.64	62.55	64.98	2.42	66.79	65.02	1.77
Peninsula	77.78	96.00	18.22	65.57	63.73	1.83	71.20	76.05	4.85
Reminderville				91.69	91.74	0.05	91.69	91.74	0.05
Richfield	94.54	87.53	7.00	79.78	84.30	4.52	90.79	86.74	4.05
Silver Lake	80.99	79.00	1.99	67.63	64.00	3.63	75.34	70.63	4.71
Stow	78.65	60.53	18.12	79.37	78.13	1.24	79.09	68.81	10.27
Tallmadge (SUM)	88.44	85.00	3.44	75.19	73.83	1.36	80.76	77.75	3.00
Twinsburg	86.96	86.04	0.92	78.08	83.78	5.70	82.55	84.74	2.19
<b>Summit Co. Totals</b>	<b>82.57</b>	<b>80.68</b>	<b>1.88</b>	<b>72.53</b>	<b>75.07</b>	<b>2.54</b>	<b>75.90</b>	<b>76.93</b>	<b>1.03</b>



**Table 3: Average PCR by Community (continued)**

Political Unit	State Route Average PCR			Non-State Route Average PCR			Total Average PCR		
	2016	2018	Change	2016	2018	Change	2016	2018	Change
Wayne Co. (AMATS)	72.90	84.13	11.23	74.56	81.27	6.71	73.35	83.46	10.12
Doylestown	99.44	84.00	15.44	74.16	85.35	11.19	80.61	84.80	4.19
Norton (WAY)				79.72	81.21	1.49	79.72	81.21	1.49
Rittman	98.00	92.00	6.00	75.96	73.96	2.00	78.68	77.72	0.97
<b>Wayne Co. (AMATS) Totals</b>	<b>74.21</b>	<b>84.59</b>	<b>10.38</b>	<b>75.17</b>	<b>79.15</b>	<b>3.98</b>	<b>74.59</b>	<b>82.51</b>	<b>7.92</b>
<b>AMATS TOTALS</b>	<b>81.34</b>	<b>82.03</b>	<b>0.69</b>	<b>73.13</b>	<b>76.65</b>	<b>3.52</b>	<b>77.02</b>	<b>78.96</b>	<b>1.95</b>

Bridges

The AMATS area contains 1,310 total bridges. Table 4 shows the number and deck area for each type of bridge based on information from ODOT.

The federal definition of a bridge is a self-supported structure equal or greater than 20 feet in length; therefore, bridges under 20 feet were excluded. These structures will not be included in bridge cost estimates because they are not eligible for federal funds. Similarly the 29 “railroad bridges,” 1 “Army bridge” and 13 “private bridges” were also excluded because they are not eligible for federal funds. The only bridges eligible for federal funds are listed as turnpike bridges and remaining bridges (20+ ft.) in Table 4 below.

**Table 4: Number and Deck Area of Bridges by County**

Bridge Type	Number of Bridges	Deck Area (sq ft)
<i>Portage County</i>		
Bridges under 20 ft	120	60,090
Railroad bridges (20+ ft)	3	12,917
Army bridge (20+ ft)	1	4,639
Turnpike Bridges (20+ ft)	27	301,542
Remaining Bridges (20+ ft)*	204	969,115
<i>Summit County</i>		
Bridges under 20 ft	178	107,431
Railroad bridges (20+ ft)	26	102,693
Private bridges (20+ ft)	13	21,643
Turnpike Bridges (20+ ft)	23	730,897
Remaining Bridges (20+ ft)*	617	6,180,842
<i>Wayne County</i>		
Bridges under 20 ft	22	10,758
Railroad bridges (20+ ft)	0	0
Remaining Bridges (20+ ft)*	76	224,289
<b>Totals:</b>	<b>1,310</b>	<b>8,726,856</b>

\* Includes non-private pedestrian and bicycle bridges

All bridges are inspected annually using a consistent statewide procedure and assigned a National Bridge Index (NBI) rating. Bridges are defined as “Poor,” “Fair” or “Good.” All poor bridges within the AMATS area are listed in Table 5 and shown on Map 2 on the following pages.

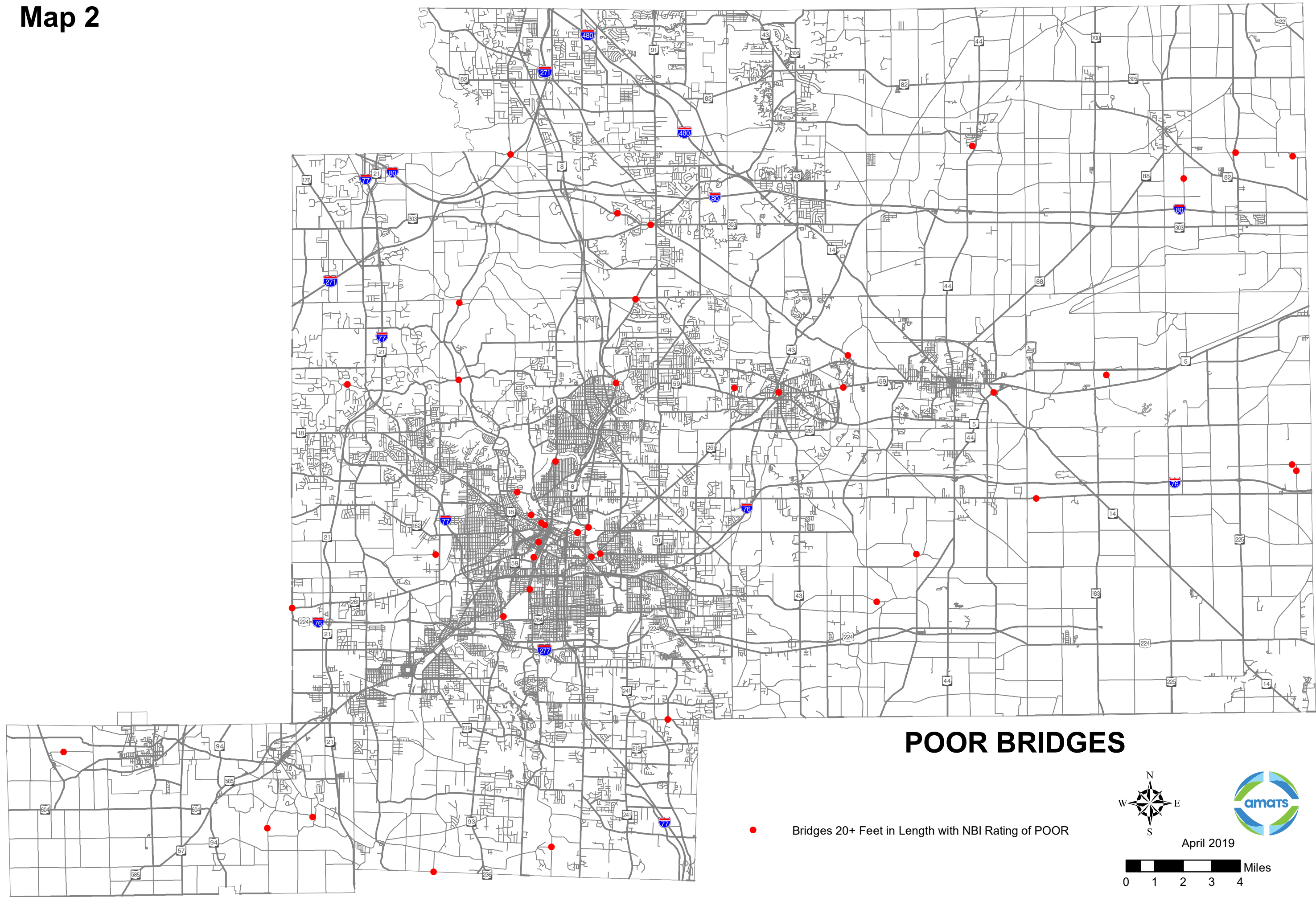
Please note for the “maint.” (maintenance column) a “1” means ODOT responsibility, “3” means county responsibility and a “4” means local responsibility. Also, “status” references to the drivability of the road where: “A” is open with no restrictions, “P” is posted with load restrictions, “B” is posted with load restrictions but not legally implemented, “X” has no vehicle traffic, and “K” is closed to all traffic. Poor bridges should be closely monitored for closure, restrictions, rehabilitation, and possible replacement in the near future.

Tables containing all Poor and Fair rated bridges are listed in Appendix A by county and community/township. All information regarding bridge inventory can be found on the ODOT TIMS website located at: <https://gis.dot.state.oh.us/tims/>. Please zoom in to your area and select the bridge with the “i” (identify features) pointer for more information about a specific bridge.

**Table 5: Poor Bridges in the AMATS area**

SFN	Facility carried	Features intersected	Length	Deck Area	Maint.	Status	Latitude	Longitude
6760000	Mats Rd	Cuyahoga River	230	2783	4	K	41.277664	-81.227106
6740448	Ravenna Rd	Norfolk & Southern RR	67	1826	3	K	41.172222	-81.312778
7739109	Christman Rd	Nimisila Reservoir	43	1172	3	P	40.924522	-81.515564
6732909	Jones Rd	Kale Creek	40	640	3	P	41.110278	-81.012778
5235464	Eastern Rd	Mill Creek	21	518	3	A	40.988333	-81.728333
6734111	Old Forge Rd	Breakneck Creek	49	882	3	A	41.070833	-81.268611
6731295	Johnson Rd	Fish Creek	23	463	3	A	41.174444	-81.384167
7767811	Ingleside Dr	Brandywine Creek	25	817	4	P	41.245997	-81.466497
7745087	Riverview Rd	Furnace Run	125.3	4760	3	P	41.201339	-81.573414
7738161	Benner Rd	Nimisila Creek	44	1056	4	P	40.912497	-81.594711
8535906	Galehouse Rd	Silver Creek	27.5	407	3	P	40.9411	-81.675281
7760027	Main St	CSX & Conrail RR	234	19656	4	A	41.055519	-81.528225
7730314	N Main St	Ramp N Howard St	47.3	3327	3	A	41.120428	-81.509994
6737080	West Main St	Cuyahoga River & CSXT RR	249	17430	3	A	41.153889	-81.359444
7753047	Hudson Dr	Powers Brook	27.5	1022	3	A	41.202264	-81.454878
7761066	GOJO Ped Bridge	206 GOJO Ped Bridge	111	1286	4	A	41.071869	-81.525253
7732155	Granger Rd	Yellow Creek	65	1561	3	A	41.160647	-81.649114
7732120	Ira Rd	North Fork Yellow Creek	27.2	489	3	A	41.188886	-81.653256
7760361	State St	Garden Al & OH Canal	538	32280	4	A	41.079331	-81.521908
7745036	Riverview Rd	Yellow Creek	22	528	3	A	41.163494	-81.576261
6733840	Tallmadge Rd	Barrell Run	43	1157	3	A	41.098419	-81.187611
7752067	Pressler Rd	S Fork Tuscarawas River	42.5	1414	3	A	40.988675	-81.436586
7735189	Minor Rd	Br Wolf Creek	21	714	3	A	41.081211	-81.670214
7735138	Wright Rd	Pigeon Creek	49	1206	3	A	41.073586	-81.591083
6733646	Randolph Rd	Potter Creek	25	600	3	A	41.046906	-81.295706
6732534	Newton Falls Rd	Hinkley Creek	51	1211	3	A	41.162914	-81.1328
6730329	Pioneer Trail	Aurora Br Chagrin River	24	456	3	A	41.304167	-81.310833
6732860	Silica Sand Rd	Eagle Creek	56	1027	3	A	41.272222	-81.05
6735622	Silica Sand Rd	Eagle Creek	76	1520	3	A	41.27	-81.011667
8546959	Zigler Rd	Wald Ditch	22.3	359	3	A	40.975136	-81.841686
6735800	Yale Rd	Kale Creek Stream	22	441	3	A	41.062214	-81.046317
8535760	Coal Bank Rd	Chippewa Creek	125.5	3062	3	A	40.935531	-81.705717
7745060	Bath Rd	Cuyahoga River	210	7556	3	P	41.162378	-81.574353
6760015	Sunrise Blvd	Fish Creek	43	1473	4	P	41.15655	-81.389272
7707592	SR 93	CR7021, A&B RR & CSX RR	581	39992	1	A	41.041808	-81.546067
7746032	Brandywine Rd	Brandywine Creek	160.5	4495	3	A	41.276483	-81.537736
6730256	Esworthy Rd	Hinkley Creek	44	1074	3	A	41.160556	-81.139167
6730906	Stanley Rd	Mahoning Creek	22	477	3	A	41.259692	-81.085147
6730922	Whippoorwill Rd	Kale Creek Tributary	32	704	3	A	41.113333	-81.015556
7730225	Kent St	Little Cuyahoga River	51	1862	3	A	41.071667	-81.486667
7700679	Ped Bridge	Over SR 8, S of Graham Rd	601	6010	1	A	41.1597	-81.468772

# Map 2



National Highway System (NHS) bridges are also rated by “Good,” “Fair” and “Poor” each year to monitor performance measures. Table 6 lists both AMATS and statewide square feet and percentages for each category. In general, the amount of “Good” bridges has increased over the years both within the AMATS area and statewide. The statewide system does have a higher percentage of “Good” bridges; however, the AMATS area has a lower percentage of “Poor” bridges, which are those that are in most need of replacement.

**Table 6: Bridge ratings for AMATS and statewide**

	AMATS - Square Feet				Statewide - Square Feet			
Year	Good	Fair	Poor	Total_NHS	Good SW	Fair SW	Poor SW	Total_NHS
2008	1,459,777	2,968,667	120,063	4,548,507	23,981,528	39,586,919	4,739,689	68,308,136
2009	1,539,664	2,726,402	282,514	4,548,580	24,094,374	40,114,728	5,297,083	69,506,185
2010	1,735,077	2,364,024	607,898	4,706,999	25,559,661	36,314,842	5,617,638	67,492,141
2011	1,798,687	2,576,941	331,368	4,706,996	26,526,545	38,919,447	5,077,619	70,523,611
2012	1,762,581	2,804,998	139,417	4,706,996	29,236,093	36,679,871	4,679,522	70,595,486
2013	1,828,174	2,797,111	76,512	4,701,797	30,793,246	35,600,121	4,118,504	70,511,871
2014	1,825,276	2,800,523	76,512	4,702,311	33,136,010	33,926,608	3,338,336	70,400,954
2015	1,783,076	2,851,227	68,008	4,702,311	36,168,556	31,394,066	2,733,086	70,295,708
2016	1,908,358	2,764,803	54,153	4,727,314	38,162,819	30,376,005	1,729,081	70,267,905
2017	2,046,008	2,591,341	26,501	4,663,850	41,736,374	27,811,129	1,466,494	71,013,997
2018	2,721,077	2,032,695	26,502	4,780,274	45,550,758	27,605,329	1,194,471	74,350,558
	AMATS - %				Statewide - %			
Year	Good	Fair	Poor	Total_NHS	Good SW	Fair SW	Poor SW	Total_NHS
2008	32%	65%	2.6%	100%	35%	58%	7%	100%
2009	34%	60%	6.2%	100%	35%	58%	8%	100%
2010	37%	50%	12.9%	100%	38%	54%	8%	100%
2011	38%	55%	7.0%	100%	38%	55%	7%	100%
2012	37%	60%	3.0%	100%	41%	52%	7%	100%
2013	39%	59%	1.6%	100%	44%	50%	6%	100%
2014	39%	60%	1.6%	100%	47%	48%	5%	100%
2015	38%	61%	1.4%	100%	51%	45%	4%	100%
2016	40%	58%	1.1%	100%	54%	43%	2%	100%
2017	44%	56%	0.6%	100%	59%	39%	2%	100%
2018	57%	43%	0.6%	100%	61%	37%	2%	100%

## **Highway Resurfacing and Replacement Needs**

Resurfacing needs between 2019 and 2045 are identified for all roadways in the AMATS area that are eligible for federal funding. An inventory of highway lane miles for roadways with federal classification major collector and above is documented in Table 7 below. Roadways are typically resurfaced every 10 years; therefore we have assumed that all roads will be resurfaced twice between 2019 and 2045. To estimate resurfacing costs, the lane miles in each roadway type are multiplied by 2, the number of resurfacings within the timeframe, and then multiplied by the cost per lane mile provided by ODOT in 2019 dollars. The total resurfacing cost is estimated to be approximately \$1.25 billion.

**Table 7: Pavement Resurfacing**

<b>Road Description (Federal Functional Class)</b>	<b>Length (in miles)</b>	<b>Number of Lane Miles</b>	<b>Number of Resurfacings</b>	<b>Cost per Lane Mile</b>	<b>Total Cost</b>
Interstates/Expressways	135	633	2	\$305,000	\$386,130,000
Ohio Turnpike	34	192	2	\$305,000	\$117,120,000
Principal & Minor Arterials	546	1,478	2	\$150,000	\$443,400,000
Major Collectors	516	1,119	2	\$135,000	\$302,130,000
<b>Pavement Resurfacing</b>	1,231	3,422			<b>\$1,248,780,000</b>

Aside from periodically resurfacing the existing roads, periodically pavement needs to be completely replaced. Pavement replacement is done less frequently than resurfacing. AMATS assumed that only 5 percent of all roadways will be replaced between now and 2045. Table 8 shows the estimated pavement replacement costs in the AMATS area between now and 2045 using cost per lane mile provided by ODOT. The cost for pavement replacement is approximately \$0.16 billion. The total cost of pavement resurfacing and replacement combined is just over \$1.41 billion.

**Table 8: Pavement Replacement**

<b>Road Description (Federal Functional Class)</b>	<b>Length (in miles)</b>	<b>Number of Lane Miles</b>	<b>Lane Miles Replaced</b>	<b>Cost per Lane Mile</b>	<b>Total Cost</b>
Interstates/Expressways	135	633	31.65	\$1,125,000	\$35,606,250
Ohio Turnpike	34	192	9.60	\$1,125,000	\$10,800,000
Principal & Minor Arterials	546	1,478	73.90	\$900,000	\$66,510,000
Major Collectors	516	1,119	55.95	\$900,000	\$50,355,000
<b>Pavement Replacement</b>	1,231	3,422			<b>\$163,271,250</b>

## **Bridge Maintenance and Replacement Needs**

Bridge preservation needs are varied depending on the age and degree of usage of the bridge. The four common stages dealing with maintenance, repair, or replacement are: a) painting steel structure, b) deck overlay, c) deck replacement, and d) superstructure replacement. Table 9 shows an inventory of the bridges over 20 feet in length in AMATS area (excluding railroad, Army, and other private bridges).

**Table 9: Bridge Deck Area by County**

	Number of Bridges	Deck Area
<b>Bridges (20+ ft)</b>		
Portage Co.	204	969,115
Summit Co.	617	6,180,542
Chippewa & Milton Twp (Wayne Co.)	76	224,289
<b>Turnpike Bridges (20+ ft)</b>		
Portage Co.	27	301,542
Summit Co.	23	730,897
<b>Totals:</b>	<b>947</b>	<b>8,406,385</b>

Table 10 gives an estimate of the cost of preserving the bridges from 2019 to 2045, i.e., 27 years. The following assumptions were made with respect to the frequency of preservation of the four stages listed above: a) painting steel structure every 17 years, b) deck overlay every 17 years, c) deck replacement every 50 years, and d) superstructure replacement every 80 years.

The preservation cost for each stage of preservation was calculated by dividing 27 years by the frequency listed above and then multiplying that quantity by the total bridge deck area listed in Table 9 above. The unit costs shown on Table 10 were provided by ODOT in 2019 dollars. The total preservation cost of AMATS area bridges is approximately \$2.37 billion.

**Table 10: Bridge Preservation Costs**

State of Preservation	Serviced Deck Area (sq. ft.)	Unit Cost ( per sq.ft.)	Total Cost
Painting Steel Structure	13,351,317	\$34	\$453,944,778
Deck Overlay	13,351,317	\$47	\$627,511,899
Deck Replacement	4,539,448	\$165	\$749,008,920
Superstructure Replacement	2,837,155	\$190	\$539,059,450
<b>Bridge Preservation</b>			<b>\$2,369,525,047</b>

## Summary

It is necessary to assess the needs associated with maintaining and preserving the existing highway system at an acceptable level. Over the next 27 years, the total cost of preserving the AMATS existing highway system is estimated to be approximately \$3.78 billion, valued in 2019 dollars. This cost estimate is approximately 17 percent higher than the \$3.22 billion estimated in the last system preservation report, which was valued in 2016 dollars. There has been no increase in lane mileage and a only a 0.6 percent increase in bridge deck square footage. However, the higher preservation cost is primarily due to increased construction costs for both pavement and bridge maintenance.

The \$3.78 billion total was determined by adding the estimated costs of pavement resurfacing (\$1.25 billion), pavement replacement (\$0.16 billion) and bridge preservation (\$2.37 billion). The next step in the development of *Transportation Outlook 2045* is to determine the expected amount of revenue available over the life of the Plan. The total system preservation cost contained in this report will be subtracted from predicted revenues to determine the amount available for operational and expansion project recommendations.

Please note that this study does not account for any minor collector or local roadway preservation costs because they do not qualify for federal funds. If those roadway miles were added back into the report, then the costs would be substantially greater as they account for 74 percent of the total mileage and 67.5 percent of the total lane miles according to Table 1. This is important to note as local communities struggle to find necessary funding for their transportation infrastructure.



# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>ATWATER TWP</b>									
6735630	Stroup Rd	Walborn Reservoir	77	2772	Fair	3	A	40.992861	-81.172092
6703909	US 224	Stroup Rd	125	5802	Fair	1	A	41.033014	-81.172167
6739660	Alliance Rd	Willow Creek	30	807	Fair	3	A	41.0325	-81.098611
<b>AURORA</b>									
6730329	Pioneer Trail	Aurora Br Chagrin River	24	456	Poor	3	A	41.304167	-81.310833
6704743	SR 306	Br Chagrin River	136	4975	Fair	1	A	41.343967	-81.342664
6733328	Crackel Rd	Aurora Br Chagrin River	76	1710	Fair	3	A	41.347611	-81.336925
<b>BRIMFIELD TWP</b>									
6733808	Tallmadge Rd	Plum Creek	32.6	1174	Fair	3	A	41.10015	-81.369858
6701957	IR 76 WB	W&LE RR	147	6468	Fair	1	A	41.106189	-81.369114
6701981	IR 76 EB	W&LE RR	147	6468	Fair	1	A	41.105864	-81.369144
6702031	SR 43	IR 76	224	14672	Fair	1	A	41.107133	-81.347389
<b>CHARLESTON TWP</b>									
6732534	Newton Falls Rd	Hinkley Creek	51	1211	Poor	3	A	41.162914	-81.1328
6730256	Esworthy Rd	Hinkley Creek	44	1074	Poor	3	A	41.160556	-81.139167
6735967	Knapp Rd	West Branch Reservoir	210	5513	Fair	3	A	41.135278	-81.191389
6700217	SR 5	Hinkley Creek	24	1055	Fair	1	A	41.151806	-81.167686
<b>DEERFIELD TWP</b>									
6735800	Yale Rd	Kale Creek Stream	22	441	Poor	3	A	41.062214	-81.046317
5054486	Western-Reserve	A Tributary Mahoning River	21	667	Fair	3	A	40.987797	-81.004361
6701000	SR 14	Berlin Reservoir	282	11280	Fair	1	A	41.009664	-81.045742
6703968	US 224	Willow Creek	54	1458	Fair	1	A	41.024692	-81.073575
<b>EDINBURG TWP</b>									
6733840	Tallmadge Rd	Barrell Run	43	1157	Poor	3	A	41.098419	-81.187611
6702619	IR 76	Barrell Run	135	5940	Fair	1	A	41.106422	-81.191192
6702643	IR 76 WB	SR 14	270	11880	Fair	1	A	41.105975	-81.156939
6702767	Porter Rd	IR 76	211	6506	Fair	1	A	41.105425	-81.121856
6735304	Calvin Rd	Silver Creek	93	2422	Fair	3	A	41.118889	-81.105833
6702708	IR 76 EB	SR 14	270	11880	Fair	1	A	41.105692	-81.156675
6702791	IR 76	Silver Creek	139	6179	Fair	1	A	41.105544	-81.104672
6702821	IR 76	Silver Creek	141	6254	Fair	1	A	41.105258	-81.10475
<b>FREEDOM TWP</b>									
6740448	Ravenna Rd	N & S RR	67	1826	Poor	3	K	41.172222	-81.312778
6731295	Johnson Rd	Fish Creek	23	463	Poor	3	A	41.174444	-81.384167
6731570	Lake Rockwell	Eckert Ditch	28	614	Fair	3	A	41.197222	-81.303333
6701213	SR 43	Abandoned RR	50	1950	Fair	1	A	41.1811	-81.346828
6701264	SR 43	NS RR	155	6820	Fair	1	A	41.186869	-81.347078

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>FREEDOM TWP (Continued)</b>									
6701787	SR 59	Breakneck Creek	62	3596	Fair	1	A	41.155872	-81.318822
6740383	Judson Rd	W&LE RR	154	3692	Fair	3	A	41.193611	-81.38
<b>HIRAM TWP</b>									
6704530	SR 305	Silver Creek	33	883	Fair	1	A	41.309519	-81.129861
6731538	Hankee Rd	Eagle Creek Tributary	26	652	Fair	3	A	41.275278	-81.1125
6704883	SR 700	Eagle Creek	56	1568	Fair	1	A	41.281992	-81.144611
<b>KENT</b>									
6760015	Sunrise Blvd	Fish Creek	43	1473	Poor	4	P	41.15655	-81.389272
6737080	W Main St	Cuyahoga River & CSXT RR	249	17430	Poor	3	A	41.153889	-81.359444
6730582	Sunny Brook Rd	Plum Creek	39	848	Fair	3	A	41.126533	-81.366164
6730914	Howe Rd	Plum Creek	43	871	Fair	3	A	41.117778	-81.367222
6705103	Summit Rd	Breakneck Creek	21	527	Fair	1	A	41.140247	-81.320375
6737498	Stow Rd	Cuyahoga River	141	5006	Fair	3	A	41.150556	-81.362222
6760060	Portage Hike & Bike	CSX RR	54	756	Fair	4	A	41.166375	-81.3402
6701760	SR 59	Tallmadge Av, W&LE RR	409	28630	Fair	1	A	41.150781	-81.373478
6704964	SR 261 WB	Plum Creek & W&LE RR	538	22596	Fair	1	A	41.134858	-81.369692
6704972	SR 261 EB	Plum Creek & W&LE RR	538	22596	Fair	1	A	41.134556	-81.369653
<b>MANTUA</b>									
6760000	Mats Rd	Cuyahoga River	230	2783	Poor	4	K	41.277664	-81.227106
6730876	Canada Rd	Cuyahoga Tributary	34	678	Fair	3	A	41.275278	-81.216389
6701663	SR 44	Cuyahoga River	129	5354	Fair	1	A	41.278539	-81.224578
<b>MANTUA TWP</b>									
6703364	SR 82	Cuyahoga River	171	5785	Fair	1	A	41.310447	-81.195142
6737404	Mantua Center Rd	Black Brook Ditch	25	488	Fair	3	A	41.33	-81.245278
<b>NELSON TWP</b>									
6732860	Silica Sand Rd	Eagle Creek	56	1027	Poor	3	A	41.272222	-81.05
6732208	Hopkins Rd	Br Eagle Creek	25	398	Fair	3	P	41.276389	-81.056667
6704573	SR 305	Camp Creek	85	3057	Fair	1	A	41.31005	-81.096886
6730566	Knowlton Rd	Tinker Creek Tributary	22	377	Fair	3	A	41.296894	-81.022333
6703631	SR 88	Camp Creek	32	1173	Fair	1	A	41.312247	-81.098325
6739024	Parkman Rd	Tinker Creek	40	940	Fair	3	A	41.295833	-81.047778
<b>PALMYRA TWP</b>									
6732909	Jones Rd	Kale Creek	40	640	Poor	3	P	41.110278	-81.012778
6730922	Whippoorwill Rd	Kale Creek Tributary	32	704	Poor	3	A	41.113333	-81.015556
6732917	Cable Line Rd	Kale Creek Tributary	23	344	Fair	3	A	41.134156	-81.004111
6733891	Tallmadge Rd	Kale Creek	80	2560	Fair	3	A	41.098736	-81.014583
6702880	John Thomas Rd	IR 76	209	6372	Fair	1	A	41.106211	-81.089472

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>PALMYRA TWP (Continued)</b>									
6703186	IR 76	Kale Creek	80	3520	Fair	1	A	41.099708	-81.014425
6732895	Cable Line Rd	Kale Creek Tributary	25	500	Fair	3	A	41.134167	-81.010278
6703097	IR 76 WB	Universal Rd & ABC RR	196	8428	Fair	1	A	41.101267	-81.022667
6703127	IR 76 EB	Universal Rd & ABC RR	196	8428	Fair	1	A	41.101014	-81.022686
6703151	IR 76	Kale Creek	80	3520	Fair	1	A	41.100022	-81.014408
6703216	Mahoning Rd	IR 76	228	7072	Fair	1	A	41.100161	-81.002467
<b>PARIS TWP</b>									
6732569	Newton Falls Rd	Mahoning River	107	2996	Fair	3	A	41.171111	-81.021667
6738850	Wayland Rd	West Branch Tributary	24	514	Fair	3	A	41.169167	-81.071389
6704174	SR 225	West Br Mahoning River	105	3358	Fair	1	A	41.156797	-81.05145
6738575	Wayland Rd	West Br Mahoning River	131	3940	Fair	3	A	41.157222	-81.071389
<b>RANDOLPH TWP</b>									
6733646	Randolph Rd	Potter Creek	25	600	Poor	3	A	41.046906	-81.295706
6734626	Laubert Rd	Congress Lake Outlet	39	780	Fair	3	A	40.996519	-81.266731
6701450	SR 44	Br Congress Lake	60	2160	Fair	1	A	41.061025	-81.247328
6703879	US 224	Congress Lake Outlet	93	4092	Fair	1	A	41.029817	-81.259414
6734804	Waterloo Rd	Congress Lake Outlet	44	1434	Fair	3	A	41.033056	-81.257222
<b>RAVENNA</b>									
6700667	SR 14	Abandoned RR, Portage Bike & Hike	161	7567	Fair	1	A	41.173725	-81.228958
<b>RAVENNA TWP</b>									
6703542	SR 88	Br Mahoning River	39	1082	Fair	1	A	41.193233	-81.206289
6732518	Newton Falls Rd	Mahoning River W Branch	32	732	Fair	3	A	41.161594	-81.197461
6700691	SR 14	SR 5 & SR 44	234	15210	Fair	1	A	41.152475	-81.215142
6738303	Wall St	Conrail	199	7612	Fair	3	A	41.17	-81.271667
6700098	SR 5	CSX Transportation	194	8148	Fair	1	A	41.147875	-81.222442
<b>ROOTSTOWN TWP</b>									
6734111	Old Forge Rd	Breakneck Creek	49	882	Poor	3	A	41.070833	-81.268611
6731589	Industry Rd	Barrell Run	22	484	Fair	3	A	41.086667	-81.193889
6700039	SR 5	SR 44	259	7770	Fair	1	A	41.117728	-81.242561
6702317	IR 76 EB	SR 5 & SR 44	167	8684	Fair	1	A	41.109314	-81.242744
6731953	Industry Rd	Barrell Run	32	768	Fair	3	A	41.091111	-81.193889
6734138	Old Forge Rd	Breakneck Creek	46	1173	Fair	3	A	41.070264	-81.266261
6734650	Harriff Rd	Breakneck Creek	77	2271	Fair	3	A	41.133056	-81.260556
6735029	Rootstown Rd	Breakneck Creek	76	1824	Fair	3	A	41.105833	-81.263611
6702198	Rootstown Rd	Over IR 76	331	10097	Fair	1	A	41.110708	-81.270189

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>STREETSBORO</b>									
6732879	Elliman Rd	Cuyahoga Tributary	25	603	Fair	3	A	41.253889	-81.299167
6704778	IR 480 WB	W&LE RR	135	8696	Fair	1	A	41.265286	-81.390069
6704808	IR 480 EB	W&LE RR	135	8696	Fair	1	A	41.264875	-81.390114
<b>SUFFIELD TWP</b>									
6733301	Martin Rd	Mogadore Reservoir Outlet	27	646	Fair	3	A	41.056386	-81.382958
6703755	US 224	W&LE RR	148	5032	Fair	1	A	41.026644	-81.373767
<b>WINDHAM TWP</b>									
6735622	Silica Sand Rd	Eagle Creek	76	1520	Poor	3	A	41.27	-81.011667
6704506	SR 303	Br Eagle Creek	62	1824	Fair	1	A	41.234969	-81.024292
6730906	Stanley Rd	Mahoning Creek	22	477	Poor	3	A	41.259692	-81.085147
6739008	Parkman Rd	Mahoning Creek	26	570	Fair	3	A	41.264444	-81.050833

\* Placed bridges from adjacent counties into AMATS counties

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>AKRON</b>									
7730314	N Main Street	Ramp N Howard St	47.3	3327	Poor	3	A	41.120428	-81.509994
7745036	Riverview Rd	Yellow Creek	22	528	Poor	3	A	41.163494	-81.576261
7760027	Main St	Csx & Conrail RR	234	19656	Poor	4	A	41.055519	-81.528225
7760361	State St	Garden Al & Oh Canal	538	32280	Poor	4	A	41.079331	-81.521908
7761066	Gojo Ped Bridge	206 Gojo Pedestrian Bridge	111	1286	Poor	4	A	41.071869	-81.525253
7707592	SR 93	Cr 7021, A&B RR & CSX RR	581	39992	Poor	1	A	41.041808	-81.546067
7745060	Bath Rd	Cuyahoga River	210	7556	Poor	3	P	41.162378	-81.574353
7730225	Kent St	Little Cuyahoga River	51	1862	Poor	3	A	41.071667	-81.486667
7701799	SR 59	SR 59 NB Ramp Over IR 76	1500	62750	Fair	1	A	41.06175	-81.543153
7705581	27th St	Over US 224	223	9868	Fair	1	A	41.035267	-81.571922
7705972	IR 76 Ramp to IR 77S	IR 76 EB & IR 77 SB	240	9120	Fair	1	A	41.061864	-81.506119
7706065	IR76 Ramp to SR 8 N	Over I-76 WB	134	5091	Fair	1	A	41.061719	-81.502947
7711255	SR 764	Over Metro Rta RR	136	7616	Fair	1	A	41.041628	-81.477153
7730055	South St	Ohio Canal	55.1	3525	Fair	3	A	41.061667	-81.542192
7730136	Home Av	Little Cuyahoga River	73	4672	Fair	3	A	41.087667	-81.490708
7730306	N Main St	Cuyahoga River	909	61430	Fair	3	A	41.121914	-81.509628
7752083	Skelton Rd	Little Cuyahoga River	35	840	Fair	3	A	41.056022	-81.423144
7761708	Stuber Av	Little Cuyahoga River	51	1849	Fair	4	A	41.090694	-81.511075
7700067	Johnston St	SR 8 & Rmps To IR 76,IR 77,SR8	309	14214	Fair	1	A	41.064014	-81.5049
7700180	Caroll St	Over SR 8	118	7363	Fair	1	A	41.075325	-81.504472
7700210	Buchtel St	Over SR 8	118	7363	Fair	1	A	41.076478	-81.504033
7700369	SR 8 & SR 59	North St L Cuy Riv & Rrs	1583	131389	Fair	1	A	41.086686	-81.501953
7700423	SR 261	Over SR 8 & SR 59	119	9996	Fair	1	A	41.102197	-81.500197
7701942	SR 59	Over Ohio Canal Enclosure	67	4284	Fair	1	A	41.086517	-81.518889
7703244	IR 76	Over Broadway & CSXT RR	528	68860	Fair	1	C	41.0623	-81.5263
7703279	IR 76	IR 76 WB Off Rmp Over Bdwy	450	18150	Fair	1	A	41.062967	-81.525747
7703309	IR 76	Over Main St	167	21780	Fair	1	A	41.062258	-81.527564
7703368	Princeton St	Over IR 76/77	154	9599	Fair	1	A	41.061892	-81.534533
7703392	IR 76	Over Lakeshore Blvd	171	20249	Fair	1	A	41.062044	-81.540767
7703457	IR 76	Over Bowery St & Ohio Canal	432	67824	Fair	1	A	41.061833	-81.542886
7703481	IR 76	Over Manchester Rd	158	22502	Fair	1	A	41.061147	-81.550769
7703511	Hilcrest Ped Brdg	Over IR 76/77	262	2620	Fair	1	A	41.059908	-81.554372
7703546	East Av	Over IR 76/77	292	16571	Fair	1	A	41.059653	-81.558108
7703570	IR 76 Ramp V & Ramp W	Over IR 77	197	15366	Fair	1	A	41.060419	-81.568247
7705611	IR 76	Over IR 277-0.17	202	15352	Fair	1	A	41.035147	-81.565406
7705646	IR 76	Over CSX Transportation	221	23537	Fair	1	A	41.037428	-81.565256
7705670	IR 76	Over Wilbeth Rd	218	21364	Fair	1	A	41.039114	-81.565169

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>AKRON (Continued)</b>									
7705700	IR 76	Over Kenmore Blvd	183	19032	Fair	1	A	41.041306	-81.565228
7705735	IR 76	Over Battles Ave	132	12012	Fair	1	A	41.046472	-81.564839
7705824	East Av	Over IR 76	261	14616	Fair	1	A	41.051625	-81.565606
7705859	IR 76 & Ramp T	Over Morse St	152	11907	Fair	1	A	41.058556	-81.567619
7705883	Ramp U & IR 76 EB	Over Morse St	119	5236	Fair	1	A	41.058558	-81.567417
7705891	Sumner Ped Bldg	Over IR 76/77	170	1629	Fair	1	A	41.06235	-81.514894
7706006	IR 77 WB	Over IR 77NB & SR 8	353	22563	Fair	1	A	41.062136	-81.505664
7706030	IR 76 EB	Over IR 77NB & SR 8	466	27455	Fair	1	A	41.061531	-81.50515
7706219	Ped Bridge	Over IR 76	206	3735	Fair	1	A	41.062922	-81.496592
7706332	IR 76	Over Kelly Ave RR Canal	814	121286	Fair	1	A	41.062381	-81.482244
7706545	IR 76	Little Cuyahoga River	28	667	Fair	1	A	41.064567	-81.438144
7707568	SR 93	Ohio Canal	99	6732	Fair	1	A	41.0237	-81.549722
7707622	Kenmore Blvd	Over Kenmore Blvd	181	6305	Fair	1	A	41.045017	-81.547831
7707657	SR 162	Pigeon Creek	40	883	Fair	1	A	41.083483	-81.585522
7707797	Kelly Av	Over US 224	182.4	9849	Fair	1	A	41.025639	-81.483306
7708246	SR 18	Over CSX Transportation	69	5037	Fair	1	A	41.069669	-81.487247
7708645	SR 261D	Over L Cuy R WE&METRO RRs	3351	139067	Fair	1	A	41.0963	-81.512447
7708653	SR 261	Over L Cuy R WE&METRO RRs	3410	129577	Fair	1	A	41.087103	-81.514597
7709323	Martha Av	Over Abandoned Railroad	28	1119	Fair	1	A	41.060486	-81.477017
7711190	SR 764	Ohio Canal	107	7383	Fair	1	A	41.039967	-81.541153
7730144	White Pond Dr	Shocalog Run	29	807	Fair	3	A	41.096408	-81.588908
7730209	Emmitt Rd	CSX Railroad	97	3977	Fair	4	A	41.025528	-81.478119
7730322	Front St	Cuyahoga River	230	12400	Fair	3	A	41.118333	-81.493333
7730357	W North St	Ohio Canal	66	3864	Fair	3	A	41.091667	-81.518333
7736118	Glenmount Av	Holy Cross Inlet	53	1798	Fair	3	A	41.02485	-81.515278
7759398	Park Access Rd	Sand Run Creek	43	689	Fair	C	A	41.13775	-81.564611
7760000	E. Exchange St	Wolf Ledges and RRs	269	26630	Fair	4	A	41.075225	-81.518764
7760019	High-Main Viaduct	Garage Dr-Goodrich	982	47039	Fair	4	A	41.072481	-81.523503
7760116	University Blvd	CSX & Conrail	249	19858	Fair	4	A	41.078042	-81.516436
7760140	Waterloo Rd	Brewster Run Culvert	24	1296	Fair	4	A	41.029244	-81.503258
7760310	Thornton St	Ohio Canal	147	9151	Fair	4	A	41.066061	-81.536111
7760469	Ped Traffic	Spr-Field Lk Outlet	26	191	Fair	4	A	41.053861	-81.447169
7760604	Dart Av Ramp	Over Ohio Canal	136	5032	Fair	4	A	41.064664	-81.538489
7760949	Bike Path	Ravine 33.5 Mi No 212	246	3690	Fair	C	A	41.127686	-81.538797
7761228	Mill St	Cascade Parking Deck	107	11765	Fair	4	A	41.083	-81.519667
7761627	Miller Av	Conrail & CSX RR	166	8300	Fair	4	A	41.056481	-81.527544
7761643	Rhodes Av	Ohio Canal	56	3358	Fair	4	A	41.064714	-81.538467

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>AKRON (Continued)</b>									
7761678	Bowery St	Ohio Canal	278	17792	Fair	4	B	41.081372	-81.519978
7761759	Wedgewood Dr	Spring Lake Outlet	31	926	Fair	4	A	41.049822	-81.440511
7761775	Goodyear Blvd	W&LE RR	72	4069	Fair	4	A	41.068406	-81.475703
7700245	Forge St	Over SR 8	161	9978	Fair	1	A	41.081469	-81.503833
7700334	SR 59	Over SR 8	121	7987	Fair	1	A	41.083864	-81.503311
7700393	Glenwood Av	Over SR 8	120	7459	Fair	1	A	41.097564	-81.500267
7700989	SR 18	SR 59 & Ohio Canal Encl	226	22152	Fair	1	A	41.08575	-81.519092
7701810	SR 59	Lakeshore Oh Can Thornton	864	36144	Fair	1	A	41.063886	-81.537842
7701829	SR 59	Lakeshore Oh Can Thornton	800	33465	Fair	1	A	41.063333	-81.538333
7701934	SR 59	Conn Rmp(Mill St-Rand Av)	686	26749	Fair	1	A	41.083817	-81.519628
7701977	Bartges St	Over SR 59	196	15877	Fair	1	A	41.070364	-81.537778
7702701	IR 77	Over Waterloo Rd	202	13702	Fair	1	A	41.028856	-81.504867
7702736	IR 77	Over Waterloo Rd	206	12618	Fair	1	A	41.028933	-81.504239
7702825	Cole Av	Over IR 77	158	9585	Fair	1	A	41.051617	-81.505642
7702884	IR 77	Over Archwood Av	157	18526	Fair	1	A	41.046444	-81.505508
7702914	Lovers Lane	Over IR 77	150	9125	Fair	1	A	41.05445	-81.505611
7702949	Lafollette Av	IR 77 & SR 8	223	12525	Fair	1	A	41.058961	-81.505714
7703961	IR 77	Under Schocalog Rd	259	10943	Fair	1	A	41.10885	-81.604039
7705557	IR 76	Over CSX Transportation	379	42448	Fair	1	A	41.035639	-81.576219
7706308	IR 76	Over Fuller St	68	10540	Fair	1	A	41.062517	-81.484053
7706480	IR 76	Over SR 18	163	21842	Fair	1	A	41.061311	-81.457339
7708742	SR 261	Over CSX Transportation	117	8424	Fair	1	A	41.102478	-81.489064
7709757	IR 277	Over Glenmount Av	119	11900	Fair	1	A	41.024436	-81.515553
7711220	SR 764	Over IR 77	128	7808	Fair	1	A	41.039875	-81.505194
7760175	Brown St	Akron Barberton RR	34	2040	Fair	4	A	41.056531	-81.50995
7760329	Thornton St	CSX & Conrail RR	325	19500	Fair	4	A	41.065886	-81.523433
7700091	SR 8	Over Beacon St AB RR	130	14874	Fair	1	A	41.067836	-81.503967
7700555	SR 8	Over Gorge Blvd	126	14112	Fair	1	A	41.114286	-81.494225
7701993	Dart Av	Ramp To Opport Pkwy	158	5845	Fair	1	A	41.074281	-81.537719
7702000	Euclid Av	Over SR 59	354	19824	Fair	1	A	41.075925	-81.537572
7702760	Catawba Av	Over IR 77	163	6982	Fair	1	A	41.035678	-81.505331
7703600	IR 77	Over Hawkins Av	160	19520	Fair	1	A	41.061292	-81.569508
7703635	IR 77	Over SR 261	147	20482	Fair	1	A	41.063903	-81.5727
7703880	White Pond Dr	IR 77	196	11662	Fair	1	A	41.099058	-81.587456
7706537	SR 91	IR 76,L Cuy R,W&LE ABC RR	481	26696	Fair	1	A	41.064411	-81.43935
7707789	US 224	Over S Arlington St	147	16464	Fair	1	A	41.025828	-81.491783
7708297	SR 18	Over SR 8	126	10395	Fair	1	A	41.079953	-81.504106

# Appendix A

SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>AKRON (Continued)</b>									
7708629	SR 261	Over SR 59	160	12960	Fair	1	A	41.07315	-81.538006
7709609	IR 277	Over Waterloo Rd	220	24640	Fair	1	A	41.031353	-81.549311
7762275	Carey Av Pedestrian	Over Mud Run	63	415	Fair	4	A	41.041719	-81.576419
<b>BARBERTON</b>									
7705433	IR 76	Ramp C&D Over Mud Run	26	624	Fair	1	A	41.036622	-81.578356
7731124	Coventry Rd	Mud Run	34.2	1164	Fair	3	A	41.033672	-81.579625
7705344	State St	Over US 224	176	11616	Fair	1	A	41.037353	-81.583711
7711034	SR 619	Tus R CSXT & ABC RR Sts	866	63218	Fair	1	A	41.028486	-81.587992
7731000	Norton Av	Wolf Creek	65	3445	Fair	3	A	41.024672	-81.614603
7731019	Snyder Av	Tuscarawas River	61	2077	Fair	3	A	41.002844	-81.605944
7731043	W Wooster Rd	Hudson Run	67	4219	Fair	3	A	41.006797	-81.634178
7731108	Brady Av	Wolf Creek	72	2160	Fair	3	A	41.021719	-81.616042
<b>BATH TWP</b>									
7732120	Ira Rd	North Fork Yellow Creek	27.2	489	Poor	3	A	41.188886	-81.653256
7732155	Granger Rd	Yellow Creek	65	1561	Poor	3	A	41.160647	-81.649114
7732007	N Medina-Line Rd	Br Yellow Creek	23	644	Fair	3	A	41.153928	-81.686633
7732090	Yellow Creek Rd	Yellow Creek	64.8	2528	Fair	3	A	41.160122	-81.600258
7732023	Cleve-Mass Rd	Yellow Creek	77	4489	Fair	3	A	41.157636	-81.635881
7732031	Cleve-Mass Rd	Br North Fork Stream	48	2808	Fair	3	A	41.162917	-81.636897
7732058	Cleve-Mass Rd	North Fork Stream	32	1872	Fair	3	A	41.176878	-81.636567
7732112	Ira Rd	Bath Ditch	32	1077	Fair	3	A	41.188839	-81.665064
7732171	Shade Rd	North Fork	28	775	Fair	3	A	41.175564	-81.635133
7732228	Hametown Rd	Br Yellow Creek	36	1346	Fair	3	A	41.15	-81.665
7732236	N Hametown Rd	Bath Ditch	26	884	Fair	3	A	41.189203	-81.665775
7732481	Martin Rd	Br Ira Creek	23	753	Fair	3	A	41.179492	-81.589628
7704267	IR 77	Over Bath Rd	121.5	7776	Fair	1	A	41.168889	-81.626308
<b>BOSTON TWP</b>									
7733038	Riverview Rd	Columbia Run	34.7	942	Fair	3	A	41.2756	-81.568011
7709099	IR 271	Over Boston Mills Rd	191	8022	Fair	1	A	41.264081	-81.552333
7709129	IR 271	Over Boston Mills Rd	163	5868	Fair	1	A	41.263839	-81.552111
7733062	Akron-Peninsula Rd	Dickerson Run	34	1259	Fair	3	A	41.218361	-81.551975
7733070	Akron-Peninsula Rd	Salt Run	28	936	Fair	3	A	41.226014	-81.547267
7733127	Everett Rd	Furnace Run	86	3315	Fair	3	A	41.2079	-81.584953
7729545	EB Tpk	Over IR 271	406	26393	Fair	1	A	41.252681	-81.586922
7729596	IR 271 NB	Over IR 80	214.7	9106	Fair	1	A	41.252753	-81.585697
7709153	Hines Hill Rd	Over IR 271	287	8036	Fair	1	A	41.269928	-81.5438



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SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>BOSTON HEIGHTS</b>									
7700172	Bike Path	Over SR 8	251	2906	Fair	1	A	41.228378	-81.489244
7700237	SR 8	Over SR 303	214	23541	Fair	1	A	41.232161	-81.490167
7700253	SR 8	Over NB On Ramp From SR 303	127	13972	Fair	1	A	41.23435	-81.491597
<b>COPLEY TWP</b>									
7735138	Wright Rd	Pigeon Creek	49	1206	Poor	3	A	41.073586	-81.591083
7735189	Minor Rd	Br Wolf Creek	21	714	Poor	3	A	41.081211	-81.670214
5233119	Medina Line Rd	Wolf Creek	99	3025	Fair	3	P	41.087819	-81.687469
7735103	Shocalog Rd	Pigeon Creek	23	786	Fair	3	A	41.096342	-81.603108
7735146	Cleve-Mass Rd	Wolf Creek	48	1344	Fair	3	A	41.071594	-81.639314
7701500	SR 21	Over Barberton Res Inlet	112	4928	Fair	1	A	41.085422	-81.662117
7701535	SR 21	Over Barberton Res Inlet	112	4928	Fair	1	A	41.0853	-81.661742
7701756	IR 77 NB Off-ramp	To 21 SB (over SR 21)	225	7200	Fair	1	A	41.120736	-81.653642
7704046	IR 77 NB	Over SR 21 NB	238	14756	Fair	1	A	41.123139	-81.652422
7735154	Minor Rd	Wolf Creek	98	2745	Fair	3	A	41.081181	-81.656825
7735162	White Pond Dr	Pigeon Creek	34	1275	Fair	3	A	41.092086	-81.590331
7735200	Jacoby Rd	Pigeon Creek	20	670	Fair	3	A	41.106769	-81.619414
7701748	Ridgewood Rd	Over SR 21 NB	219	8322	Fair	1	A	41.111486	-81.654964
7703945	IR 77 SB On-ramp	From Miller Rd (Over IR 77)	361	13718	Fair	1	A	41.112492	-81.609911
7704038	IR 77 SB	Over SR 21 NB	238	11900	Fair	1	A	41.12295	-81.652722
<b>COVENTRY TWP</b>									
7736029	S Main St	Feeder Channel	20.5	1181	Fair	3	A	41.014158	-81.523603
7702469	Killian Rd	Over IR 77	282.5	16437	Fair	1	A	40.997336	-81.493525
7702558	IR 77	Tuscarawas River	161	9016	Fair	1	A	41.0071	-81.494458
7702647	IR 77 SB Off-ramp	To US 224 Eb (over IR 77 NB)	233	6990	Fair	1	A	41.023653	-81.498925
7709811	IR 277	Over IR 77	561	59653	Fair	1	A	41.025186	-81.502358
7736002	Arlington Rd	Tuscarawas River	73	3800	Fair	3	A	41.007194	-81.492006
7736061	Portage Lakes Dr	East Reservoir Outlet	23	1081	Fair	3	A	40.995797	-81.534769
7736088	Portage Lakes Dr	East Reservoir Outlet	29	1033	Fair	3	A	41.001011	-81.531394
<b>CUYAHOGA FALLS</b>									
7745087	Riverview Rd	Furnace Run	125.3	4760	Poor	3	P	41.201339	-81.573414
7700679	Ped Bridge	Over SR 8, S of Graham Rd	601	6010	Poor	1	A	41.1597	-81.468772
7700601	Portage Trail SB Ramp	To SR 8 SB	209	6270	Fair	1	A	41.135597	-81.481139
7700628	SR 8 NB Off-ramp	To Portage Trail	329	10528	Fair	1	A	41.135256	-81.480617
7700733	SR 8 SB Off-ramp	Relief Sidehill Struct	358	10651	Fair	1	A	41.134875	-81.4815
7763832	Bath Rd	Mudd Brook	92	3681	Fair	4	A	41.158333	-81.505
7700598	SR 8	Over Broad Blvd	80	10800	Fair	1	A	41.133464	-81.481092
7700644	SR 8 & SR 59	Cuyahoga River	150	18900	Fair	1	A	41.139939	-81.477939

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SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>CUYAHOGA FALLS (Continued)</b>									
7710828	Bailey Rd	Over SR 8	210	8820	Fair	1	A	41.146436	-81.475103
<b>FAIRLAWN</b>									
7764391	Elgin Dr	Schocalog Run	23	527	Fair	4	A	41.126303	-81.625764
<b>GREEN</b>									
7739109	Christman Road	Nimisila Reservoir	43	1172	Poor	3	P	40.924522	-81.515564
7711131	SR 619	Over IR 77	394	14542	Fair	1	A	40.974211	-81.478361
7739117	Mayfair Rd	Hekman Ditch	27	893	Fair	3	A	40.952053	-81.437033
7739125	Raber Rd	Br Tuscarawas River	54	1399	Fair	3	A	40.965347	-81.430539
7739397	Arlington Rd	Nimisila Creek	37	1485	Fair	3	A	40.908989	-81.497147
7702434	IR 77	Over S Arlington Rd	313	24727	Fair	1	A	40.987506	-81.492375
<b>HUDSON</b>									
7767811	Ingleside Dr	Brandywine Creek	25	817	Poor	4	P	41.245997	-81.466497
7740085	E. Hines Hill Rd	Brandywine Creek	32.3	1049	Fair	3	A	41.260278	-81.489186
7740093	Hines Hill Rd	Br Brandywine Creek	20	540	Fair	3	A	41.260808	-81.474831
7740107	Hines Hill Rd	Br Brandywine Creek	23	625	Fair	3	A	41.263383	-81.451242
7740115	Hines Hill Rd	Br Brandywine Creek	20	545	Fair	3	A	41.263831	-81.448189
7740220	Dillman Dr	Wagar Ditch	26	732	Fair	4	A	41.259925	-81.407069
7710593	IR 480	Tinkers Creek	245	10780	Fair	1	A	41.266053	-81.393367
<b>MACEDONIA</b>									
7700725	SR 8	Indian Creek	33	792	Fair	1	A	41.301019	-81.515947
7710143	IR 480 WB	Over Bedford Rd	145	6380	Fair	1	A	41.349803	-81.508633
7742045	Bedford Rd	Indian Creek	25	1825	Fair	3	A	41.311825	-81.509631
7710178	IR 480 EB	Over Bedford Rd	145	6380	Fair	1	A	41.349267	-81.508992
<b>MUNROE FALLS</b>									
7759339	Park Rd	Main Lake Inlet	28	567	Fair	C	B	41.129722	-81.425194
7707142	SR 91	Cuyahoga River	148	5027	Fair	1	A	41.142142	-81.438822
<b>NEW FRANKLIN</b>									
7738161	Benner Rd	Nimisila Creek	44	1056	Poor	4	P	40.912497	-81.594711
7738153	Grill Rd	Pancake Creek	34	680	Fair	4	A	40.969942	-81.623083
7711107	SR 619	Over Turkeyfoot Channel	118	4715	Fair	1	A	40.980258	-81.535378
7738188	Grove Rd	Br Tuscarawas River	23	794	Fair	3	A	40.970875	-81.591231
7738331	Ormond Dr	Turkeyfoot Lake Channel	44	1082	Fair	4	A	40.97705	-81.537794
7738366	S Main St	Nimisila Creek	49	1862	Fair	3	A	40.923019	-81.535625
7707479	SR 93	Nimisila Creek	80	5760	Fair	1	A	40.915908	-81.561383
<b>NORTHFIELD CENTER TWP</b>									
7746032	Brandywine Rd	Brandywine Creek	160.5	4495	Poor	3	A	41.276483	-81.537736
7746040	Stanford Rd	Br Brandywine Ck	20	603	Fair	J	X	41.276667	-81.548333

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SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>NORTHFIELD CENTER TWP (Continued)</b>									
7746016	Highland Rd	Brandywine Creek	77	2465	Fair	3	A	41.276667	-81.538333
7709188	Brandywine Rd	Over IR 271	263	7364	Fair	1	A	41.275675	-81.537006
7709242	IR 271 NB	Over Akron Clev Rd	135	5673	Fair	1	A	41.293335	-81.521922
7709307	IR 271	Brandywine Creek	161	6762	Fair	1	A	41.294153	-81.521556
<b>NORTON</b>									
7701322	SR 21	Br Hudson Creek	34	818	Fair	1	A	41.027681	-81.665111
7701055	SR 21 SB	Over SR 585	249	12201	Fair	1	A	40.992467	-81.663114
7701144	SR 21 NB	Over SR 585	249	9213	Fair	1	A	40.992667	-81.662706
7701179	Johnson Rd	SR 21	202	6868	Fair	1	A	41.00385	-81.661578
7701268	SR 21	Br Hudson Creek	28	667	Fair	1	A	41.017919	-81.665217
7704895	IR 76	Hudson Run	24	581	Fair	1	A	41.040136	-81.681483
7704925	Hametown Rd	US 224	246	7626	Fair	1	A	41.039689	-81.667089
7705018	IR 76	Over SR 21	259	34965	Fair	1	A	41.039931	-81.663458
7708556	SR 261	Pigeon Creek	54	2379	Fair	1	A	41.056639	-81.601983
7708580	SR 261	Pigeon Creek	54	2379	Fair	1	A	41.0574	-81.598711
7747144	Summit Rd	Wolf Creek	77	2465	Fair	3	A	41.048811	-81.599917
7747225	Hametown Rd	Hudson Run	32	1033	Fair	3	A	41.028881	-81.667272
7701209	SR 21	Over Dorothy St & ABC RR	239	8365	Fair	1	A	41.014092	-81.664389
7705042	Easton Rd	Over US 224	211	6545	Fair	1	A	41.039511	-81.648011
7708491	SR 261	Van Hyning Run	22	527	Fair	1	A	41.050086	-81.646156
7708521	SR 261	Wolf Creek	106	4661	Fair	1	A	41.055036	-81.608994
7708467	SR 261	Over SR 21	203	11165	Fair	1	A	41.049469	-81.662628
<b>PENINSULA</b>									
7709935	SR 303	Cuyahoga River	213	8520	Fair	1	A	41.241297	-81.550339
<b>REMINDEVILLE</b>									
7758022	Glenwood Blvd	Pond Brook	24	958	Fair	3	A	41.341881	-81.405183
<b>RICHFIELD</b>									
7750013	Brecksville Rd	Furnace Run	43	2501	Fair	3	A	41.257697	-81.633314
<b>RICHFIELD TWP</b>									
7749007	Everett Rd	Branch Furnace Run	23	529	Fair	3	X	41.205742	-81.592611
7749023	Wheatley Rd	Riding Run	35.3	1166	Fair	3	A	41.216217	-81.592556
7749066	Brush Rd	Furnace Run	34.3	1141	Fair	3	A	41.253156	-81.629522
7704658	IR 77	Furnace Run	161.1	7249	Fair	1	A	41.254528	-81.630972
7707711	SR 176	Over IR 77	305	16318	Fair	1	A	41.2208	-81.626064
7749015	Harter Rd	East Br Rocky River	30	721	Fair	3	A	41.21	-81.685
7749031	Townsend Rd	Furnace Run	28	952	Fair	3	A	41.268506	-81.641244
7749082	Townsend Rd	Br Furnace Run	21	714	Fair	3	A	41.261453	-81.638283

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SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>RICHFIELD TWP (Continued)</b>									
7708793	Medina Line Rd	Over IR 271	327	9810	Fair	1	A	41.203806	-81.678397
7708823	Southern Rd	Over IR 271	337	10110	Fair	1	A	41.212314	-81.661111
<b>SAGAMORE HILLS TWP</b>									
7751087	Greenwood Pkwy	Br Cuyahoga River	20	840	Fair	3	A	41.309117	-81.5667
7706871	SR 82	Cuy Riv-B&O Rr-Bike Path	1133	49288	Fair	1	A	41.321292	-81.587194
7751044	Houghton Rd	Br Sagamore Creek	22	549	Fair	3	A	41.343333	-81.551667
7751109	Holzhauser Rd	Br Cuyahoga River	20	678	Fair	3	A	41.311667	-81.558333
<b>SPRINGFIELD TWP</b>									
7752067	Pressler Rd	S Fork Tuscarawas River	42.5	1414	Poor	3	A	40.988675	-81.436586
7708076	SR 241	Over Metro Rta RR	188	8836	Fair	1	A	41.005733	-81.463633
7752008	Canton Rd	E Fork Tuscarawas River	28	1851	Fair	3	A	40.990947	-81.405614
7706669	IR 76	Over Gilchrist Rd	286	32034	Fair	1	A	41.065153	-81.434572
<b>STOW</b>									
7753047	Hudson Dr	Powers Brook	27.5	1022	Poor	3	A	41.202264	-81.454878
7700148	SR 8	Seasons Rd	689	75790	Fair	1	A	41.201525	-81.482297
7700075	SR 8	Over Hudson Dr	201	22110	Fair	1	A	41.16675	-81.476183
7700083	SR 8	Mud Brook & ABD RR Spur	219	24090	Fair	1	A	41.171608	-81.479325
7700105	Steels Corners Rd	Over SR 8	156.5	13444	Fair	1	A	41.181275	-81.47825
7700121	SR 8	Mud Brook	120	12960	Fair	1	A	41.196117	-81.479775
7702019	SR 59	Fish Creek	28	1624	Fair	1	A	41.154278	-81.396519
7753063	North River Rd	Fish Creek	29	1421	Fair	3	A	41.145	-81.396667
7753128	Fishcreek Rd	Powers Brook	28	1001	Fair	3	A	41.195	-81.433333
7700113	SR 8	Over Hampshire Rd	123	13530	Fair	1	A	41.188303	-81.477611
<b>TALLMADGE</b>									
7706693	Munroe Falls Rd	Over IR 76	266	9842	Fair	1	A	41.070681	-81.417217
7706723	Newton St	Over IR 76	399	14763	Fair	1	A	41.072272	-81.414183
<b>TWINSBURG</b>									
7755058	Glenwood Dr	Tinkers Creek	118	3897	Fair	3	A	41.3406	-81.454794
7710208	Shepard Rd	Over SR 14	325	9750	Fair	1	A	41.338503	-81.489108
7706960	SR 82	Over IR 480	330	29205	Fair	1	A	41.31145	-81.451625
7710356	IR 480 WB	Over SR 91	221	10166	Fair	1	A	41.306181	-81.440503
7710380	IR 480 EB	Over SR 91	221	9724	Fair	1	A	41.305767	-81.440575
<b>TWINSBURG TWP</b>									
7710534	IR 480	Over Stow Rd	119	4284	Fair	1	A	41.276739	-81.410017
7710445	IR 480	Over Stow Rd	119	4284	Fair	1	A	41.277094	-81.409814
7756003	Chamberlain Rd	Norfolk Southern RR	118	4484	Fair	3	A	41.305	-81.471667
7756011	Chamberlain Rd	Norfolk Southern RR	118	4489	Fair	3	A	41.302222	-81.472175

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SFN	Facility Carried	Features intersected	Length	Deck Area	NBI rating	Maint.	Status	Lat	Long
<b>CHIPPEWA TWP</b>									
8535906	Galehouse Rd	Silver Creek	27.5	407	Poor	3	P	40.9411	-81.675281
5235464	Eastern Rd	Mill Creek	21	518	Poor	3	A	40.988333	-81.728333
8535760	Coal Bank Rd	Chippewa Creek	125.5	3062	Poor	3	A	40.935531	-81.705717
8535825	Black Diamond Rd	Chippewa Creek	130.5	3197	Fair	3	A	40.932464	-81.685086
8504059	SR 94	Ditch	27	648	Fair	1	A	40.924475	-81.740028
8504113	SR 94 & SR 585	CSXT RR & Access Rd	223	10314	Fair	1	A	40.955161	-81.736997
8506124	SR 585	Mill Creek	93	4092	Fair	1	A	40.959289	-81.730894
8535833	Hametown Rd	Silver Creek	34.5	725	Fair	3	A	40.936131	-81.675553
8535868	Clinton Road	Silver Creek	43	1036	Fair	3	A	40.948958	-81.671656
8535922	Porr Rd	East Branch of Red Run	30.3	524	Fair	3	A	40.927158	-81.724122
8535949	Porr Rd	Chippewa Creek	125.5	3062	Fair	3	A	40.939336	-81.7244
8535981	Galehouse Rd	Mill Creek	45.6	1094	Fair	3	A	40.952517	-81.734236
8504083	SR 94	Chippewa Creek	159	6440	Fair	1	A	40.946386	-81.743233
8506213	Doylestown Rd	SR 585	247.2	7642	Fair	1	A	40.969078	-81.709394
<b>MILTON TWP</b>									
8546959	Zigler Rd	Wald Ditch	22.3	359	Poor	3	A	40.975136	-81.841686
8547149	Doylestown Rd	Chippewa Creek	59	1316	Fair	3	P	40.982347	-81.858656
8547475	Eastern Rd	River Styx	22	616	Fair	3	P	40.988206	-81.785458
8532060	Honeytown Rd	Branch Of Chippewa	25.5	469	Fair	3	A	40.927961	-81.878614
8547416	Yoder Rd	W. Branch Red Run	31.7	640	Fair	3	A	40.909453	-81.769725
8506574	SR 604	Chippewa Creek	86	3146	Fair	1	A	40.945722	-81.812372
8547041	Miller Rd	Steele Ditch	43.1	776	Fair	3	A	40.962692	-81.850631
8547068	Miller Rd	Chippewa Creek	48.8	820	Fair	3	A	40.966494	-81.850494
8547246	Eby Rd	R M Carnahan Ditch	20	400	Fair	3	A	40.968703	-81.864233
8547289	Steiner Rd	Little Chippewa Creek	61.7	1265	Fair	3	A	40.931011	-81.826331
8547343	Blough Rd	Chippewa Creek	51.6	1053	Fair	3	A	40.954939	-81.812172
8547424	Atlantic Av	Fall Creek	35	851	Fair	3	A	40.965814	-81.834744
8547440	Pleasant Home Rd	W Branch Red Run	21.6	335	Fair	3	A	40.91685	-81.76685
<b>RITTMAN</b>									
8547114	E Ohio Ave	River Styx	105.7	4281	Fair	3	A	40.974947	-81.7725
8546975	N Main St	Landis Ditch	30.7	1296	Fair	3	A	40.980228	-81.781511
5235456	Eastern Rd	River Styx	55	1647	Fair	3	A	40.98815	-81.764875

**AKRON METROPOLITAN AREA TRANSPORTATION STUDY****M E M O R A N D U M**

**TO:** Policy Committee  
Technical Advisory Committee  
Citizens Involvement Committee

**FROM:** AMATS Staff

**RE:** Resolution Number 2019-05 – To Reestablish Transportation Conformity for Ozone and Fine Particulate Matter Standards in the Cleveland-Akron-Lorain Area

**DATE:** May 1, 2019

AMATS is within an air quality nonattainment area for ozone and particulate matter. Consequently, AMATS is required to demonstrate that its planning process conforms to federal guidelines for mobile-source emissions. The planned transportation system improvements may not exceed an area's emissions budgets or limits.

The Metropolitan Planning Organizations (MPOs) and the Ohio Department of Transportation (ODOT) must reestablish conformity for the 2008 and 2015 8-Hour ozone standards and the 2006 and 2012 fine particulate matter (PM<sub>2.5</sub>) standards. The United States Environmental Protection Agency (USEPA) has designated the Cleveland-Akron-Lorain area as a nonattainment area for the 2015 8-Hour ozone standard.

Transportation conformity is the United States Department of Transportation (USDOT) and USEPA process to ensure that federally funded or approved highway and transit projects are consistent with the purpose of the State Implementation Plan (SIP) to reduce air pollution. Conformity to the purpose of the SIP means that transportation activities will not cause or contribute to new air quality violations, worsen existing violations, or delay timely attainment of the relevant National Ambient Air Quality Standards (NAAQS). The SIP includes a mobile source budget that is the maximum emissions that can be generated from cars and trucks (mobile sources) using the surface transportation system.

The USDOT issues formal transportation conformity determinations to nonattainment areas following a quantitative analysis. The analysis demonstrates that emissions from vehicles traveling on the planned transportation system are less than the area's emissions budget. The networks are then identified in AMATS *Transportation Outlook* and the SFY 2018-2021 Transportation Improvement Program (TIP) to show conformity for the nonattainment and maintenance area's transportation projects.

Since conformity is determined for an entire nonattainment area, rather than a sub-area basis, each of the area's planning partners must approve a new conformity finding for the area based on these updates. The new regional air quality conformity determination covers the pertinent portions of eight counties including the MPOs of the Erie Regional Planning Commission

(ERPC) - covers the Lorain County portion of the City of Vermilion; Northeast Ohio Areawide Coordinating Agency (NOACA) - covers Cuyahoga, Geauga, Lake, Lorain, and Medina Counties; AMATS - covers Portage and Summit Counties; and ODOT - covers Ashtabula County. The current analyses, shown below, reflect a comparison of projected transportation emissions against the approved budgets for each standard.

### **Why conformity analyses are required**

These tests are required because all areas with a current or former designation of nonattainment must maintain conformity findings for the designated pollutants. The tests ensure that transportation planning efforts are not hindering efforts to bring the area into attainment of the standards or maintain attainment of the standards.

### **Methodology**

The tests compare the projected emissions in the given area against the motor vehicle emissions budgets (MVEBs) identified in the SIP for each standard.

The first test compares projected emissions of ozone precursors (volatile organic compounds (VOCs) and nitrogen oxides (NO<sub>x</sub>) to the MVEBs for those pollutants. The second test is a comparison of projected emissions to the MVEBs for PM<sub>2.5</sub> and NO<sub>x</sub>.

For all tests, projected emission levels beneath the respective budgets are considered to conform to the goals of the Clean Air Act.

### **Results of the tests**

The results of the tests are shown in **Tables 1 through 4**. The tests confirm that the Cleveland-Akron-Lorain area's existing plans, programs, and projects meet the conformity requirements of the Clean Air Act.

The Staff recommends approval of Resolution 2019-05 in reestablishing conformity for the Cleveland-Akron-Lorain nonattainment area.

## **Air Quality Conformity Analyses Summary**

### **8-Hour Ozone**

Attainment status:	2015 8-Hour Ozone standard – marginal nonattainment area (Federal Register / Vol. 83, No. 107 / Monday, June 4, 2018)
SIP Status:	Federal Register /Vol. 82, No. 4 /Friday, January 6, 2017 – direct final rule adequacy finding for Motor Vehicle Emission Simulator (MOVES) based on 2008 ozone standard MVEB No submittals required under 2008 8-Hour ozone standard until approved budgets are received. The budgets found adequate for the 2008 standard will satisfy the 2015 tests, per USEPA.
8-Hour Geography:	Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, Summit Counties, OH
Conformity Tests:	2008 Standard 8-Hour budget tests
Analysis Years:	2020 1 <sup>st</sup> Analysis year and SIP Budget year 2030 Interim and SIP Budget year 2040 Plan(s) horizon year

**Table 1**

<b>8-Hour Ozone Test</b>	2020 8-Hour Budget	2020 Emissions	2030 8-Hour Budget	2030 Emissions	2040 Emissions
<b>AMATS</b>	tons/year				
VOC		6.22		4.20	3.74
NOx		9.37		5.24	4.17
<b>NOACA</b>	tons/year				
VOC		18.35		10.65	7.45
NOx		25.51		11.70	8.14
<b>Area Totals</b>	tons/year				
VOC	<b>38.85</b>	<b>24.57</b>	<b>30.80</b>	<b>14.85</b>	<b>11.19</b>
NOx	<b>61.56</b>	<b>34.88</b>	<b>43.82</b>	<b>16.94</b>	<b>12.31</b>

**8-Hour Ozone**

Attainment status: 2008 8-Hour Ozone standard – maintenance area (Federal Register / Vol. 82, No. 4 /Friday, January 6, 2017)  
1997 8-Hour Ozone Standard - maintenance area (Federal Register Notice Final Rule Tuesday, September 15, 2009)

SIP Status: Federal Register /Vol. 78, No. 53 /Tuesday, March 19, 2013 – direct final rule adequacy finding for MOVES based 1997 Ozone standard Motor Vehicle Emissions Budget (MVEB)  
No submittals required under 2008 8-Hour Ozone standard until approved budgets are received. The budgets found adequate for the 1997 standard will satisfy both 1997 and 2008 tests for the time being per USEPA.

8-Hour Geography: Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, Summit Counties, OH

Conformity Tests: 1997 Standard 8-Hour budget tests  
Analysis Years: 2020 1<sup>st</sup> Analysis year and SIP Budget year  
2030 Interim and SIP Budget year  
2040 Plan(s) horizon year

**Table 2**

<b>8-Hour Ozone Test</b>	2020 8-Hour Budget	2020 Emissions	2030 8-Hour Budget	2030 Emissions	2040 Emissions
<b>AMATS</b>	tons/day				
VOC		6.22		4.20	3.74
NOx		9.37		5.24	4.17
<b>NOACA</b>					
<b>VOC</b>		<b>18.35</b>		<b>10.65</b>	<b>7.45</b>
NOx		25.51		11.70	8.14
<b>Ashtabula Co.</b>					
VOC		0.93		0.58	0.54
NOx		1.56		0.84	0.72
<b>Totals</b>					
VOC	<b>38.85</b>	<b>25.50</b>	<b>30.80</b>	<b>15.43</b>	<b>11.74</b>
NOx	<b>61.56</b>	<b>36.44</b>	<b>43.82</b>	<b>17.79</b>	<b>13.03</b>



### PM<sub>2.5</sub> 2006 Standard

Attainment status: 2006 Annual PM<sub>2.5</sub> Standard – maintenance area (Federal Register / Vol. 78, No. 144 / Friday, July 26, 2013)

SIP Status: Cleveland area to attainment for 1997 and 2006 PM<sub>2.5</sub> Standards – FR notice included an adequacy finding for the MOVES based MVEBs

Geography: Cuyahoga, Lake, Lorain, Medina, Portage, Summit Counties, OH, and Ashtabula Township (Ashtabula County, OH)

Conformity Tests: Budget tests

Analysis Years: 2020 Interim year  
2022 PM<sub>2.5</sub> Budget year  
2030 Interim year  
2040 Plan(s) horizon year

**Table 3**

PM <sub>2.5</sub> Test	2020 Emissions	2022 Budget	2022 Emissions	2030 Emissions	2040 Emissions
<b>AMATS</b>	tons/year				
Direct PM <sub>2.5</sub>	155.61		133.40	106.37	107.20
NOx	3,189.25		2,730.52	1,864.41	1,657.69
<b>NOACA</b>	tons/year				
Direct PM <sub>2.5</sub>	565.09		487.28	376.06	333.57
NOx	12,557.57		10,361.26	6,046.52	4,115.89
<b>Ashtabula Twp.</b>	tons/year				
Direct PM <sub>2.5</sub>	2.59		2.19	1.68	1.68
NOx	60.48		50.33	35.26	32.81
<b>Area Totals</b>	tons/year				
Direct PM <sub>2.5</sub>	<b>723.29</b>	<b>880.89</b>	<b>622.86</b>	<b>484.11</b>	<b>442.46</b>
NOx	<b>15,807.30</b>	<b>17,263.65</b>	<b>13,142.11</b>	<b>7,946.19</b>	<b>5,806.39</b>

### PM<sub>2.5</sub> 2012 Standard

Attainment status: 2012 Annual PM<sub>2.5</sub> Standard - moderate nonattainment area (80 FR 2205 / January 14, 2015)

SIP status: Federal Register /Vol. 83, No. 246 /Wednesday, December 26, 2018 – approval of SIP and finding in support of MOVES based 2012 standard PM<sub>2.5</sub> MVEB

Geography: Cuyahoga and Lorain County, OH

Conformity Tests: 2012 SIP Maintenance Plan tests

Analysis Years: 2020 1st Analysis year  
2022 Budget year  
2030 Interim year  
2040 Plan(s) horizon year

**Table 4**

PM <sub>2.5</sub> Test	2020 Emissions	2022 Budget	2022 Emissions	2030 Budget	2030 Emissions	2040 Emissions
<b>Area Totals</b>	tons/year					
Direct PM <sub>2.5</sub>	407.67	406.79	351.75	270.57	235.28	242.32
NOx	8,897.42	9,432.04	7,304.60	4,907.54	4,267.43	2,914.42

**RESOLUTION NUMBER 2019-05**

**OF THE METROPOLITAN TRANSPORTATION POLICY COMMITTEE  
OF THE AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**REESTABLISH TRANSPORTATION CONFORMITY FOR OZONE AND FINE  
PARTICULATE MATTER STANDARDS IN THE CLEVELAND-AKRON-LORAIN  
AREA**

**WHEREAS**, the Akron Metropolitan Area Transportation Study (AMATS) is designated as the Metropolitan Planning Organization (MPO) by the Governor, acting through the Ohio Department of Transportation and in cooperation with locally elected officials in Summit and Portage Counties and the Chippewa Township and Milton Township areas of Wayne County; and

**WHEREAS**, the United States Environmental Protection Agency (USEPA) establishes air pollution standards pursuant to the Clean Air Act for the preservation of public health and the environment; and

**WHEREAS**, nonattainment and maintenance areas through a process called transportation conformity must demonstrate that emissions resulting from planned transportation system improvements will not exceed an area's emissions budget; and

**WHEREAS**, Portage and Summit Counties are included in the USEPA Cleveland-Akron-Lorain 8-Hour Ozone and PM<sub>2.5</sub> Nonattainment Area designations; and

**WHEREAS**, the Metropolitan Planning Organizations (MPOs) and the Ohio Department of Transportation (ODOT) must reestablish conformity for the 2008 and 2015 8-Hour ozone standards and the 2006 and 2012 fine particulate matter (PM<sub>2.5</sub>) standards as the United States Environmental Protection Agency (USEPA) has designated the Cleveland area as a nonattainment area for the 2015 8-Hour ozone standard; and

**WHEREAS**, conformity is determined for a nonattainment area rather than a sub-area basis and each of the area's planning partners must approve a new conformity finding for the area based on these updates; and

**WHEREAS**, pursuant to USEPA regulations 40 CFR Part 93, Regional Transportation Plans and Transportation Improvement Programs (TIPs) in nonattainment areas are required to demonstrate transportation conformity with the State Implementation Plan (SIP); and

**WHEREAS**, the attached air quality conformity analyses compares the projected transportation motor vehicle emissions against the budgets identified in the SIP for each standard for the pertinent portions of the counties of Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage and Summit; and

**RESOLUTION NUMBER 2019-05 – Continued**

**WHEREAS**, the conformity analyses demonstrate that the NOACA, AMATS, and ERPC TIPs and Long Range Transportation Plans in the eight county Cleveland-Akron-Lorain air quality nonattainment area are in conformity with USEPA air quality standards; and

**WHEREAS**, the necessary coordination between the Cleveland-Akron Air Quality area partners ERPC for the Lorain County portion of the City of Vermilion; AMATS for Portage and Summit Counties; NOACA for Cuyahoga, Geauga, Lake, Lorain, and Medina Counties; and ODOT for Ashtabula County, has occurred to establish conformity under the eight-hour ozone and fine particulate matter standards.

**NOW THEREFORE BE IT RESOLVED:**

1. That this Committee concurs with the attached air quality conformity analysis for the eight county Cleveland-Akron-Lorain air quality nonattainment area for 2008 and 2015 8-Hour Ozone standard.
2. That this Committee concurs with the attached air quality conformity analysis for the eight county Cleveland-Akron-Lorain air quality nonattainment area for 2006 and 2012 PM<sub>2.5</sub> standards.
3. That this Committee affirms the consistency between the Portage and Summit Counties portion of the AMATS Regional Long Range Transportation Plan, Transportation Improvement Program, and the State Implementation Plan (SIP).
4. That this Committee affirms interagency consultation has occurred between its nonattainment partners (NOACA, ERPC, AMATS, and ODOT) to ensure conformity analyses.
5. That this Committee authorizes the Staff to provide copies of this Resolution to the appropriate agencies as evidence of action by the Metropolitan Transportation Policy Committee.

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Mayor Bobbie Beshara, 2019 Chairwoman  
Metropolitan Transportation Policy Committee

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Date

**AKRON METROPOLITAN AREA TRANSPORTATION STUDY  
M E M O R A N D U M**

**TO:**        **Policy Committee  
Technical Advisory Committee  
Citizens Involvement Committee**

**FROM:**    **AMATS Staff**

**RE:**        **Resolution 2019-06** Approving Amendment #18 to the Transportation Improvement Program FY 2018-2021 to add two new projects.

**DATE:**     **May 2, 2019**

**SR 59 Resurfacing** – Is a new milling and resurfacing project in the city of Kent from the Summit County line to SR 43 S Mantua Street. This project is being added to the Transportation Improvement Program (TIP) because AMATS is adding \$150,000 of STBG funds for sub-base repairs and ADA curb ramps where needed. Construction is scheduled in FY 2020.

**US 224 Resurfacing** – Is a new milling and resurfacing project in the city of Akron and in Springfield Township. The resurfacing is being done to two sections. The first is from east of Kelly Avenue to the Akron east corporation line and the second is from east of Canton Road to east of Oakwood Drive. This project is being added to the TIP because AMATS is adding \$150,000 of STBG funds for sub-base repairs and ADA curb ramps where needed. Construction is scheduled in FY 2020.

**STAFF COMMENTS**

As with all TIP amendments, considerations with respect to public participation, financial capability, air quality, environmental justice and Plan consistency are important. Sufficient funding is forecasted from federal and state sources for this amendment. The new project listed meets all amendment requirements mentioned above. Therefore this amendment does not cause any negative impact.

**STAFF RECOMMENDATION**

Attached to this memo is Resolution Number 2019-06. This Resolution approves the amendment to the TIP FY 2018-2021. The Staff recommends approval.

**RESOLUTION NUMBER 2019-06**

**OF THE METROPOLITAN TRANSPORTATION POLICY COMMITTEE  
OF THE AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**Approving Amendment #18 to the Transportation Improvement Program FY 2018-2021 to add two new projects.**

**WHEREAS**, the Akron Metropolitan Area Transportation Study (AMATS) is designated as the Metropolitan Planning Organization (MPO) by the Governor, acting through the Ohio Department of Transportation and in cooperation with locally elected officials in Summit and Portage Counties and the Chippewa Township and Milton Township areas of Wayne County and,

**WHEREAS**, it is the responsibility of this Committee to develop and maintain the Transportation Improvement Program (TIP) and,

**WHEREAS**, this Committee has been requested to amend the AMATS FY 2018-2021 Transportation Improvement Program for the following new project as discussed in the accompanying memorandum:

1. **SR 59 Resurfacing (PID 110168)** – Is a new milling and resurfacing project in the city of Kent from the Summit County line to SR 43 S Mantua Street. This project is being added to the Transportation Improvement Program (TIP) because AMATS is adding \$150,000 for sub-base repairs and ADA curb ramps where needed. Construction is scheduled in FY 2020.
2. **US 224 Resurfacing (PID 98486)** – Is a new milling and resurfacing project in the city of Akron and in Springfield Township. The resurfacing is being done to two sections. The first is from near Kelly Avenue to the Akron east corporation line and the second is from near Canton Road to east of Oakwood Drive. This project is being added to the TIP because AMATS is adding \$150,000 for sub-base repairs and ADA curb ramps where needed. Construction is scheduled in FY 2020

**WHEREAS**, the necessary public involvement has been carried out as described in the AMATS Public Participation Plan and,

**WHEREAS**, the amendment has been judged to be air quality neutral and is, therefore, excluded from additional regional air quality conformity analysis and,

**WHEREAS**, the environmental justice impacts of this amendment has been considered consistent with “Executive Order 12898 Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations” and,

**WHEREAS**, this Committee has analyzed this request and found this amendment to be consistent with Transportation Outlook, the Regional Transportation Plan, and with the availability of federal funds forecasted for the AMATS area.

**RESOLUTION NUMBER 2019-06 (Continued)**

**NOW THEREFORE BE IT RESOLVED:**

1. That this Committee amends the Transportation Improvement Program FY 2018-2021 as previously specified.
2. That this Committee considers the necessary public involvement has been carried out as described in the AMATS Public Participation Plan.
3. That this Committee affirms that sufficient federal funding is expected to be available for the Akron Urbanized Area to maintain financial constraint.
4. That this Committee reaffirms the air quality conformity determination of Transportation Outlook, the Regional Transportation Plan.
5. That this Committee affirms conformity with environmental justice requirements.
6. That this Committee affirms consistency with Transportation Outlook, the Regional Transportation Plan.
7. That this Committee authorizes the Staff to provide copies of this Resolution to the appropriate agencies as evidence of action by the Metropolitan Planning Organization.

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Mayor Bobbie Beshara, 2019 Chairwoman  
Metropolitan Transportation Policy Committee

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Date

**AMENDMENT #18- 5/16/19**  
**AMATS TRANSPORTATION IMPROVEMENT PROGRAM FY 2018-2021**  
**TABLE H-3**  
**HIGHWAY IMPROVEMENTS**

PID #	CO-RTE-SECTION	LENGTH	LOCATION & TERMINI	TYPE OF WORK	FUND TYPE	PHASE	2018	2019	2020	2021	TOTAL PROJECT COST (\$000)	PROJECT SPONSOR	AIR QUALITY STATUS
110168	<b>POR-SR 59-0.00</b>  (New Project)	2.13	KENT SR 59 FROM THE SUMMIT COUNTY LINE TO SR 43 S. MANTUA STREET (SEE FIGURE BELOW)	MILLING AND RESURFACING	4PF7* STBG LOCAL	C C C			652.0 150.0 365.5		1,167.5	ODOT	EXEMPT
98486	<b>SUM-US 224-Various</b>  (New Project)	1.99	AKRON / SPRINGFIELD TOWNSHIP US 224 FROM LOGPOINT 11.25 TO 12.70 AND 14.30 TO 14.84 (SEE FIGURE BELOW)	MILLING AND RESURFACING BRIDGE MAINTENANCE	4PF7 STBG STATE LOCAL	C C C C			1,480.9 150.0 163.3 244.5		2,091.3	ODOT	EXEMPT



**AKRON METROPOLITAN AREA TRANSPORTATION STUDY****M E M O R A N D U M**

**TO:** Policy Committee Members  
Technical Advisory Committee Members  
Citizens Involvement Committee Members

**FROM:** AMATS Staff

**RE:** Resolution 2019-07 – Approving the FY 2020 Transportation Planning Work Program and Budget

**DATE:** May 1, 2019

Executive Summary

This memorandum discusses the activities and budget for transportation planning in the Akron Metropolitan Area for the state fiscal year beginning July 1, 2019. The purpose of this resolution is to approve the Transportation Planning Work Program and Budget.

Annually, the AMATS Policy Committee adopts a Transportation Planning Work Program and Budget (Work Program) for the upcoming fiscal year. A draft of the Fiscal Year 2020 Work Program was approved by the Policy Committee at its meeting on January 24, 2019, and it was subsequently submitted to ODOT for review and comment. ODOT and the Federal Highway Administration (FHWA) have reviewed the draft Work Program. The major elements of the Work Program remain the same as the version presented to, and approved by, the Policy Committee in January.

The major work products that are to be completed during FY 2020 include the following:

- **Develop a new FY 2021-2024 Transportation Improvement Program** - New project applications will be solicited in September 2019 utilizing AMATS attributable funds.
- **Traffic Counting Program** – The staff completes over 250 counts per year on regional roadways and provides this data to the public. Counts are also completed by member request.
- **Develop Demographic and Land Use Data for the next Regional Transportation Plan** - The staff will continue to monitor the area's transportation network and develop present statistics and future projections for informing the project selection process and travel demand model.
- **Participate in the Statewide CMAQ Discretionary Funds Program** - AMATS will continue to work with ODOT and the other Metropolitan Planning Organizations (MPOs) to select projects for the CMAQ Program.



- **Update the Region’s Transportation Planning Agreements in Coordination with ODOT** – The staff will coordinate and delineate planning activities and duties with its partners, consistent with recent federal legislation and program guidance.
- **Review and Update Metropolitan Planning Public Involvement** – A new public involvement plan will be developed in accordance with recent federal guidance and recommendations.
- **Continued Implementation of Performance Measures Planning for Evaluating Travel Modes** – Performance measures will be integrated into the Plan and TIP processes consistent with current federal legislation and guidance.
- **Direct the Gohio Commute and Air Quality Advocacy Programs** – The staff will utilize a multimodal approach to promote modes of travel that reduce the use of single-occupancy vehicles.
- **Pavement Condition Index (PCI)** – A contract will be awarded to a consultant for the development and analysis of pavement conditions.

AMATS member communities receive approximately \$17 million annually in several funding categories to be used for highway, transit and enhancement improvements. AMATS is the federally mandated conduit for these funds.

It has been estimated that \$1,180,270 in federal Consolidated Planning Grant (CPG) funds will be available to AMATS for planning activities in FY 2020. CPG funds must be matched by state and local funds at a percentage rate of 80/10/10, yielding an initial budget of \$1,475,337. The CPG amount was adjusted from the January TAC and Policy memo due to a financial contribution to obtain StreetLight data (the most current traffic information available). Any remaining funds from this fiscal year (FY 2019) will be carried over on July 1, and may be used through December 31, 2019.

The following table (Table 1) entitled *AMATS FY 2020 Work Program – Funding by Source* summarizes the budget that is to be included in the FY 2020 Work Program. This budget includes an expenditure of \$2,090,337 to support the AMATS staff and its activities. Along with METRO RTA and PARTA, the budget for regional transportation planning totals \$2,965,337.

In addition, total annual dues for FY 2020 will be \$165,510. The attached *AMATS Local Share Calculation* table (Table 2) shows each member’s dues for the upcoming fiscal year. Local share dues are used to match CPG funding as well as cover delayed expenses and reimbursements not immediately paid by ODOT. Local share amounts for individual members reflect the US Census 2010 population figures, charged per capita, by previous agreement of the Policy Committee.

Congestion Mitigation and Air Quality Improvement (CMAQ) Program funds for staff air quality planning activities must now be matched with appropriate funding where applicable. Per ODOT’s instructions, Toll Revenue Credit (TRC) is applied to portions of the staff CMAQ air quality planning activities. As a result, the amount of local share dues for AMATS members remains unchanged from last year.

Staff Recommendation

Attached is Resolution 2019-07 for your review and consideration. This resolution approves the final FY 2020 Transportation Planning Work Program and Budget and authorizes the staff to collect annual dues. The staff will adjust the FY 2020 budget once the final carryover balances from FY 2019 are known in July. The Policy Committee's approval is requested.

Table 1

**AMATS FY 2020 WORK PROGRAM  
FUNDING BY SOURCE**

<b><u>AMATS AGENCY ONLY</u></b>	<b><u>FY 2020</u></b>
USDOT Consolidated Planning Grant	\$1,180,270
ODOT Match	\$147,534
AMATS Local Share (Match)	<u>\$147,533</u>
<b>SUBTOTAL</b>	<b>\$1,475,337</b>
AMATS Local Expenses (Match)	\$25,000
FY 2019 Carryover (Estimated)	\$400,000
FHWA/CMAQ (Non-SOV Advocacy)	<u>\$190,000</u>
<b>TOTAL</b>	<b>\$2,090,337</b>
 <b><u>METRO RTA PLANNING</u></b>	
METRO Planning (Local METRO Funds)	\$800,000
 <b><u>PARTA PLANNING</u></b>	
PARTA Planning (Local PARTA Funds)	<u>\$75,000</u>
 <b>GRAND TOTAL</b>	 <b>\$2,965,337</b>

Note: All carryover amounts will be adjusted when the FY 2019 program is closed out and final balances are known after June 30.

TABLE 2

**AMATS  
LOCAL SHARE CALCULATION\*  
SFY 2020 WORK PROGRAM**

MEMBERS	2010 POP (CENSUS)	LOCAL SHARE PERCENT	CY 2019 LOCAL SHARE
METRO RTA	N/A	13.2%	\$21,887
PARTA	N/A	2.2%	\$3,652
<u>SUMMIT COUNTY</u>			
AKRON	199,110	24.2%	\$40,041
BARBERTON	26,550	3.2%	\$5,339
CUYAHOGA FALLS	49,652	6.0%	\$9,985
FAIRLAWN	7,437	0.9%	\$1,496
GREEN	25,699	3.1%	\$5,168
HUDSON	22,262	2.7%	\$4,477
LAKEMORE	3,068	0.4%	\$617
MACEDONIA	11,188	1.4%	\$2,250
MOGADORE	3,853	0.5%	\$775
MUNROE FALLS	5,012	0.6%	\$1,008
NEW FRANKLIN	14,227	1.7%	\$2,861
NORTHFIELD	3,677	0.4%	\$739
NORTON	12,085	1.5%	\$2,430
REMINDEVILLE	3,404	0.4%	\$684
RICHFIELD	3,648	0.4%	\$734
SILVER LAKE	2,519	0.3%	\$506
STOW	34,837	4.2%	\$7,006
TALLMADGE	17,537	2.1%	\$3,527
TWINSBURG	18,795	2.3%	\$3,780
SUMMIT CO. UNINCORP.	75,433	9.2%	\$15,170
<u>PORTAGE COUNTY</u>			
AURORA	15,548	1.9%	\$3,127
KENT	28,904	3.5%	\$5,813
RAVENNA	11,724	1.4%	\$2,358
STREETSBORO	16,028	1.9%	\$3,223
PORTAGE CO. UNINCORP.	80,772	9.8%	\$16,243
<u>WAYNE COUNTY</u>			
DOYLESTOWN	3,051	0.4%	\$614
TOTAL	706,259		
TOTAL CONTRIBUTING MEMBERS	696,020		\$165,510

\* \$0.201 per person

Communities under 2,400 in population do not pay local dues.

**RESOLUTION NUMBER 2019-07**

**OF THE METROPOLITAN TRANSPORTATION POLICY COMMITTEE  
OF THE AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**APPROVING THE FISCAL YEAR 2020 TRANSPORTATION PLANNING WORK  
PROGRAM AND BUDGET**

**WHEREAS**, the Akron Metropolitan Area Transportation Study (AMATS) is designated as the Metropolitan Planning Organization (MPO) by the Governor, acting through the Ohio Department of Transportation (ODOT) and in cooperation with locally elected officials in Summit and Portage Counties and the Chippewa Township and Milton Township areas of Wayne County; and

**WHEREAS**, this Committee annually reviews and approves a Work Program and Budget for the continuation of the transportation planning process; and

**WHEREAS**, this Committee has reviewed the Transportation Planning Work Program for Fiscal Year 2020 and has found it to be consistent with local, State and Federal transportation planning priorities.

**NOW THEREFORE BE IT RESOLVED:**

1. That this Committee approves the Fiscal Year 2020 Transportation Planning Work Program.
2. That this Committee approves the provisional Fiscal Year 2020 regional transportation planning budget totaling \$2,965,337 as contained in the Fiscal Year 2020 Work Program.
3. That this Committee approves a FY 2020 local share of \$165,510 in order to match the federal funds in support of the AMATS budget, as discussed in the attached memorandum.
4. That this Committee approves the collection of \$165,510 in annual dues from member communities as shown in the attached table entitled *AMATS Local Share Calculation FY 2020 Work Program*.
5. That this Committee authorizes the Staff, without further action by this Committee, to adjust the provisional FY 2020 Budget as necessary to reflect the final carryover balances from FY 2019.
6. That this Committee authorizes the Staff to provide copies of this Resolution to the appropriate agencies as evidence of action by the Metropolitan Planning Organization.

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Mayor Bobbie Beshara, 2019 Chairwoman  
Metropolitan Transportation Policy Committee

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Date

**AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**M E M O R A N D U M**

**TO:** Policy Committee  
Technical Advisory Committee  
Citizens Involvement Committee

**FROM:** AMATS Staff

**RE:** Resolution 2019-08 - Reaffirming the Approval of the Regional  
Transportation Plan and the Transportation Improvement Program, and  
Affirming the Consistency between the Regional Transportation Plan, the  
Transportation Improvement Program, and the State Implementation Plan

Resolution 2019-09 - Certification of the Urban Transportation Planning  
Process

**DATE:** May 1, 2019

In order to remain certified as a Metropolitan Planning Organization (MPO), AMATS must satisfy various requirements each year. Four requirements are pending:

1. Reaffirming the approval of *Transportation Outlook*, the area's 2040 Regional Transportation Plan.
2. Reaffirming the approval of the Transportation Improvement Program (TIP).
3. Affirming the consistency between *Transportation Outlook*, the Transportation Improvement Program, and the State Implementation Plan (SIP) for improving air quality.
4. Certifying that the urban transportation planning process is being carried out in compliance with all applicable federal requirements.

*Transportation Outlook*, the AMATS area's current Regional Transportation Plan was adopted by the AMATS Policy Committee on May 25, 2017. Federal planning requirements under the *Fixing America's Surface Transportation Act (FAST)* state that the regional transportation plan must be reviewed and updated every four years in air quality non-attainment or maintenance areas. Consequently, the area's next regional transportation plan update is scheduled for adoption by the Policy Committee in 2021.

The AMATS Policy Committee approved the FY 2018-2021 TIP on May 25, 2017. The TIP is updated routinely every two years and is comprised of projects drawn from *Transportation Outlook*, the area's Regional Transportation Plan.

Because AMATS is part of the eight-county Cleveland-Akron-Lorain air quality non-attainment area, its Regional Transportation Plan and TIP must also contain an air quality analysis that shows that emissions from mobile sources will not exceed the allowable limits for ozone and fine particulate matter (PM<sub>2.5</sub>) that have been established by the Ohio Environmental Protection Agency (OEPA) in the State Implementation Plan (SIP). To that end, an air quality analysis entitled, *Ozone and PM2.5 Conformity Analyses for Transportation Plans, Programs, and Projects in the Cleveland-Akron-Lorain, Ohio Metropolitan Area* was completed. This air quality analysis demonstrates that *Transportation Outlook* and the TIP are in compliance with the applicable air quality standards.

ODOT requests that AMATS annually reaffirm its approval of the area's Regional Transportation Plan and TIP, and that it affirm the consistency of both of these documents with the SIP in a single resolution. Resolution 2019-08 meets this objective.

Resolution 2019-09 is also attached. This resolution certifies that the AMATS transportation planning process is being carried out in compliance with all applicable federal requirements.

Specifically, Title VI of the Civil Rights Act of 1964 requires that AMATS shall not, on the basis of race, color, religion, national origin or sex, exclude anyone from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance. Consequently, it is the policy of AMATS to provide an environment of nondiscrimination and equal opportunity in employment as well as in the development of the area's regional transportation policies, plans, and programs contained in the Regional Transportation Plan (Transportation Outlook) and the Transportation Improvement Program.

The Staff recommends that both Resolution 2019-08 and Resolution 2019-09 be approved.

**RESOLUTION NUMBER 2019-08**

**OF THE METROPOLITAN TRANSPORTATION POLICY COMMITTEE  
OF THE AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**REAFFIRMING THE APPROVAL OF THE REGIONAL TRANSPORTATION PLAN  
AND THE TRANSPORTATION IMPROVEMENT PROGRAM, AND AFFIRMING  
THE CONSISTENCY BETWEEN THE REGIONAL TRANSPORTATION PLAN, THE  
TRANSPORTATION IMPROVEMENT PROGRAM, AND THE STATE  
IMPLEMENTATION PLAN**

**WHEREAS**, the Akron Metropolitan Area Transportation Study (AMATS) is designated as the Metropolitan Planning Organization (MPO) by the Governor, acting through the Ohio Department of Transportation (ODOT) and in cooperation with locally elected officials in Summit and Portage Counties, and the Village of Doylestown, Chippewa Township and Milton Township in Wayne County; and

**WHEREAS**, AMATS has, pursuant to 23 United States Code 134 and 49 United States Code 5303, prepared *Transportation Outlook*, the area's 2040 Regional Transportation Plan, which was approved on May 25, 2017; and

**WHEREAS**, AMATS has, pursuant to Title 23 United States Code Section 134 prepared the Transportation Improvement Program for Fiscal Years 2018 through 2021, which was approved on May 25, 2017; and

**WHEREAS**, the Transportation Improvement Program for Fiscal Years 2018-2021 is consistent with *Transportation Outlook*, the area's 2040 Regional Transportation Plan; and

**WHEREAS**, Section 176(c)(3) of the Clean Air Act Amendments of 1990, requires that the MPO make a determination that the Regional Transportation Plan and the Transportation Improvement Program are in conformity with respect to the State Implementation Plan for attainment of the National Ambient Air Quality Standards (NAAQS); and

**WHEREAS**, a quantitative air quality analysis of *Transportation Outlook* and the Transportation Improvement Program for Fiscal Years 2018 through 2021 was completed for both ozone and fine particulate matter (PM<sub>2.5</sub>), in accordance with the requirements specified by the *Fixing America's Surface Transportation Act (FAST)* and the Clean Air Act Amendments of 1990; and

**WHEREAS**, this quantitative air quality analysis entitled, *Ozone and PM2.5 Conformity Analyses for Transportation Plans, Programs, and Projects in the Cleveland-Akron-Lorain, Ohio Metropolitan Area SFY 2018 – 2021 Transportation Improvement Programs* demonstrates that *Transportation Outlook* and the Transportation Improvement Program for Fiscal Years 2018 through 2021 are in conformity with the applicable air quality standards of the State Implementation Plan.



**RESOLUTION NUMBER 2019-08 - Continued**

**NOW THEREFORE BE IT RESOLVED:**

1. That this Committee reaffirms its approval of *Transportation Outlook* as the Transportation Plan for Summit and Portage Counties and the Chippewa and Milton Township areas of Wayne County.
2. That this Committee reaffirms its approval of the Transportation Improvement Program for Fiscal Years 2018 and 2021 as the program of projects being implemented with federal transportation funds in Summit and Portage counties and the Chippewa and Milton Township areas of Wayne County.
3. That this Committee affirms the consistency between the Transportation Improvement Program for Fiscal Years 2018 and 2021 and *Transportation Outlook*.
4. That this Committee affirms the consistency between *Transportation Outlook* and the State Implementation Plan.
5. That this Committee authorizes the Staff to provide copies of this Resolution to the appropriate agencies as evidence of action by the Metropolitan Transportation Policy Committee.

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Mayor Bobbie Beshara, 2019 Chairwoman  
Metropolitan Transportation Policy Committee

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Date

**RESOLUTION NUMBER 2019-09**

**OF THE METROPOLITAN TRANSPORTATION POLICY COMMITTEE OF THE  
AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**CERTIFICATION OF THE URBAN TRANSPORTATION PLANNING PROCESS**

**WHEREAS**, the Akron Metropolitan Area Transportation Study (AMATS) is designated as the Metropolitan Planning Organization (MPO) by the Governor, acting through the Ohio Department of Transportation (ODOT) and in cooperation with locally elected officials in Summit and Portage Counties, and the Village of Doylestown, Chippewa Township and Milton Township in Wayne County, as evidenced in the Agreement of Cooperation, Number 30088, between ODOT and the City of Akron finalized on June 16, 2017; and

**WHEREAS**, the federal regulations pertaining to Urban Transportation Planning, published as 23 CFR 450.334, require the MPO to certify that the cooperative metropolitan transportation planning process is in conformance with these regulations; and

**WHEREAS**, the federal regulations published as 23 CFR 450 require that the metropolitan transportation planning process shall include activities to support the development and implementation of a regional transportation plan and a transportation improvement program and subsequent transportation planning activities to the degree appropriate for the area; and

**WHEREAS**, these activities have been acted upon by the MPO by separate Resolution Number 2019-08, dated May 1, 2019; and

**WHEREAS**, the federal regulations published as 23 CFR 450.334 also require that the planning process be carried out in accordance with:

- a. Title 23 United States Code (U.S.C.) Section 134 and Title 49 U.S.C. 5303 concerning metropolitan planning for Highways and Transit, respectively;
- b. Sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and Title 40 Code of Federal Regulations (CFR) part 93 in non-attainment areas;
- c. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
- d. 49 U.S.C 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- e. Section 1101(b) of the FAST Act (Pub. L. 114-94) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT-funded projects;
- f. 23 CFR part 230, regarding the implementation of an equal employment opportunity program on federal and federal-aid highway construction contracts;
- g. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 *et seq.*) and 49 CFR parts 27, 37, and 38;
- h. The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving federal financial assistance;

**RESOLUTION NUMBER 2019-09 - Continued**

- i. Section 324 of Title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
- j. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.

**WHEREAS**, Title VI of the Civil Rights Act of 1964 requires that AMATS shall not, on the basis of race, color, religion, national origin or sex, exclude anyone from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance; and

**WHEREAS**, *Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* requires that recipients of federal funds make a meaningful effort to involve low-income and minority groups in the process to make decisions regarding the use of federal funds; and also requires that they identify and address any disproportionately high and adverse human health and environmental effects on minority and low-income groups, which may result from the implementation of their plans and programs; and

**WHEREAS**, in accordance with the *Fixing America's Surface Transportation Act (FAST)*, AMATS, as a Transportation Management Area, is carrying out its planning responsibilities under the applicable provisions of federal law.

**NOW THEREFORE BE IT RESOLVED:**

- 1. That this Committee certifies, in consideration of the requirements listed herein and to the degree appropriate for the size of the area and the complexity of its transportation system, that the urban transportation planning process is being carried out in compliance with all of the applicable federal requirements.
- 2. That this Committee authorizes the Staff to implement and provide copies of the AMATS Title VI Plan as appropriate.
- 3. That this Committee authorizes the Staff to provide copies of this Resolution to the appropriate agencies as evidence of action by the Metropolitan Transportation Policy Committee.

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Mayor Bobbie Beshara, 2019 Chairwoman  
Metropolitan Transportation Policy Committee

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Date

**AKRON METROPOLITAN AREA TRANSPORTATION STUDY  
M E M O R A N D U M**

**TO:** Policy Committee  
Technical Advisory Committee  
Citizens Involvement Committee

**FROM:** AMATS Staff

**RE:** Resolution 2019-10 Approving Amendment #19 to the Transportation Improvement Program FY 2018-2021 to add one new project.

**DATE:** May 2, 2019

**Tallmadge Rd Interchange** – Is an existing interchange reconstruction project in Portage County at the IR 76/CR 18 (Tallmadge Rd) interchange. At the request of ODOT, \$110,885 of federal funding is being added to the detailed design phase of this project. Detailed Design is scheduled in FY 2020.

**STAFF COMMENTS**

As with all TIP amendments, considerations with respect to public participation, financial capability, air quality, environmental justice and Plan consistency are important. Sufficient funding is forecasted from federal and state sources for this amendment. The new project listed meets all amendment requirements mentioned above. Therefore this amendment does not cause any negative impact.

**STAFF RECOMMENDATION**

Attached to this memo is Resolution Number 2019-10. This Resolution approves the amendment to the TIP FY 2018-2021. The Staff recommends approval.

**RESOLUTION NUMBER 2019-10**

**OF THE METROPOLITAN TRANSPORTATION POLICY COMMITTEE  
OF THE AKRON METROPOLITAN AREA TRANSPORTATION STUDY**

**Approving Amendment #19 to the Transportation Improvement Program FY 2018-2021 to add one new project.**

**WHEREAS**, the Akron Metropolitan Area Transportation Study (AMATS) is designated as the Metropolitan Planning Organization (MPO) by the Governor, acting through the Ohio Department of Transportation and in cooperation with locally elected officials in Summit and Portage Counties and the Chippewa Township and Milton Township areas of Wayne County and,

**WHEREAS**, it is the responsibility of this Committee to develop and maintain the Transportation Improvement Program (TIP) and,

**WHEREAS**, this Committee has been requested to amend the AMATS FY 2018-2021 Transportation Improvement Program for the following new project as discussed in the accompanying memorandum:

1. **Tallmadge Rd Interchange** – Is an existing interchange reconstruction project in Portage County at the IR 76/CR 18 (Tallmadge Rd) interchange. At the request of ODOT, \$110,885 of federal funding is being added to the detailed design phase of this project. Detailed Design is scheduled in FY 2020.

**WHEREAS**, the necessary public involvement has been carried out as described in the AMATS Public Participation Plan and,

**WHEREAS**, it has been determined that this project is not exempt from regional air quality conformity analysis and has been analyzed for air quality conformity. An air quality conformity determination that addresses both ozone and PM<sub>2.5</sub> pollutants has been conducted and has shown that the projects will conform to air quality requirements and,

**WHEREAS**, the environmental justice impacts of this amendment has been considered consistent with “Executive Order 12898 Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations” and,

**WHEREAS**, this Committee has analyzed this request and found this amendment to be consistent with Transportation Outlook, the Regional Transportation Plan, and with the availability of federal funds forecasted for the AMATS area.

**NOW THEREFORE BE IT RESOLVED:**

1. That this Committee amends the Transportation Improvement Program FY 2018-2021 as previously specified.

**RESOLUTION NUMBER 2019-10 (Continued)**

2. That this Committee considers the necessary public involvement has been carried out as described in the AMATS Public Participation Plan.
3. That this Committee affirms that sufficient federal funding is expected to be available for the Akron Urbanized Area to maintain financial constraint.
4. That this Committee reaffirms the air quality conformity determination of Transportation Outlook, the Regional Transportation Plan.
5. That this Committee affirms conformity with environmental justice requirements.
6. That this Committee affirms consistency with Transportation Outlook, the Regional Transportation Plan.
7. That this Committee authorizes the Staff to provide copies of this Resolution to the appropriate agencies as evidence of action by the Metropolitan Planning Organization.

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Mayor Bobbie Beshara, 2019 Chairwoman  
Metropolitan Transportation Policy Committee

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Date

**AMENDMENT #19- 5/16/19**  
**AMATS TRANSPORTATION IMPROVEMENT PROGRAM FY 2018-2021**  
**TABLE H-3**  
**HIGHWAY IMPROVEMENTS**

PID #	CO-RTE-SECTION	LENGTH	LOCATION & TERMINI	TYPE OF WORK	FUND TYPE	PHASE	2018	2019	2020	2021	TOTAL PROJECT COST (\$000)	PROJECT SPONSOR	AIR QUALITY STATUS
98585	<b>POR-CR 18-0.51</b> (Tallmadge Rd)  (Revise Funding)	0.55	BRIMFIELD TOWNSHIP CR 18 (TALLMADGE RD) AT MOGADORE RD AND I-76	INTERCHANGE IMPROVEMENTS	4HJ7 LOCAL CMAQ-A LOCAL CMAQ-A HSIP	P P R R C C		500.0 125.0	99.8 11.1	3,160.0 2,500.0	9,921.9	PORTAGE COUNTY ENGINEER	ANALYZE