

# OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)

C/o Old Colony Planning Council, 70 School Street, Brockton, MA / Phone: 508-583-1833 / [www.ocpcrpa.org](http://www.ocpcrpa.org)

## OLD COLONY MPO VOTING MEMBERS

CITY OF BROCKTON

TOWN OF PLYMOUTH

TOWN OF WEST BRIDGEWATER

TOWN OF WHITMAN

BROCKTON AREA TRANSIT AUTHORITY (BAT)

MASSACHUSETTS DEPARTMENT OF  
TRANSPORTATION (MASSDOT)

MASSACHUSETTS DEPARTMENT OF  
TRANSPORTATION (MASSDOT) HIGHWAY DIVISION

OLD COLONY PLANNING COUNCIL (OCPC)

## OLD COLONY MPO EX-OFFICIO NON-VOTING MEMBERS

OLD COLONY JOINT TRANSPORTATION COMMITTEE  
(JTC)

FEDERAL HIGHWAY ADMINISTRATION (FHWA)  
MASSACHUSETTS DIVISION

FEDERAL TRANSIT ADMINISTRATION (FTA)  
REGION 1

## NOTICE OF VIRTUAL MEETING

**Tuesday, October 19, 2021, 10:00 A.M.**

Join Zoom Virtual Meeting:

<https://zoom.us/join>

Meeting ID: 828 6889 7278 | Password: 370367

Dial by your phone: +1 646 518 9805

Meeting ID: 828 6889 7278 | Password: 370367

## AGENDA

1. Call to Order, Accessibility Statement, Title VI Notice of Protection, and Introductions
2. Public Comments
3. Minutes of August 17, 2021 Old Colony MPO Meeting
4. Brockton Area Transit (BAT) Report
5. MassDOT District 5 Update on Projects Under Design or Construction
6. FFY 2022-2026 Old Colony Transportation Improvement Program (TIP) Adjustments and/ or Amendments
7. Performance Based Planning and Brockton Area Transit (BAT) Transit Asset Management (TAM) Fiscal Year 2022 Transit State of Good Repair Targets
  - Presentation, Discussion, and Possible Adoption of the Proposed Set of Federally Required Performance Targets Pertaining to Transit State of Good Repair
8. Road Safety Audits (RSAs) at Multiple Locations Project
  - Review of FFY 2021 and Introduction to FFY 2022
9. Administrative Matters, Other Business, and Date and Time of Next Meeting(s)
10. Adjournment

The Old Colony MPO fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. The Old Colony MPO operates without regard to race, color, or national origin (including limited English proficiency), age, sex, disability, ancestry, ethnicity, gender, gender identity or expression, sexual orientation, religion, creed, veteran's status, or background. Any person who believes that they or any specific class of persons to be subject to discrimination prohibited by Title VI may by themselves or by representative file a written complaint with the Old Colony MPO. Complaints are to be filed no later than 180 days from the date of the alleged discrimination. Please contact Mary Waldron at 508-583-1833 Extension 202 for more information.

This meeting is accessible to people with disabilities and those with limited English proficiency. Accessibility accommodations and language services will be provided free of charge, upon request, as available. For more information or to request reasonable accommodation and/or language services please, contact Mary Waldron at 508-583-1833 Extension 202.

- If this information is needed in another language, please contact Mary Waldron at 508-583-1833 Extension 202.
- Se esta informação é necessária em outro idioma, entre em contato com Mary Waldron em 508-583-1833 Ramal 202.
- Si se necesita esta información en otro idioma, por favor póngase en contacto con Mary Waldron al 508-583-1833 extensión 202.
- Si yo bezwen enfòmasyon sa a nan yon lòt lang, tanpri kontakte Mary Waldron nan 508-583-1833 Ekstansyon 202.

The public discussion of the Transportation Improvement Program (TIP) at Old Colony JTC, Old Colony MPO, and transportation meetings satisfies the Program of Projects (POP) public hearing requirements of the Federal Transit Administration (FTA).

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 1  
Call to Order, Accessibility Statement and  
Title VI Nondiscrimination Statement, and Introductions

**Summary**

Call to Order, Accessibility Statement and Title VI Nondiscrimination Statement, Roll Call, and Introductions

**Accessibility Statement and Title VI Nondiscrimination Statement**

**“This meeting is accessible to people with disabilities. Microphones or telephones will be used by all speakers. If you would like these accommodations, please contact Mary Waldron at 508-583-1833 Extension 202. Thank you.”**

**“The Notice of Nondiscrimination Rights and Protections to Beneficiaries with regard to the Federal Title VI/Nondiscrimination Protections and the State Nondiscrimination Protections is included on this meeting’s agenda and is available on the Old Colony Planning Council Website at [www.ocpcrpa.org](http://www.ocpcrpa.org). Please contact Mary Waldron at 508-583-1833 Extension 202 for more information. Thank you.”**

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 2  
Public Comments

**Summary**

Public comments.

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 3  
Minutes of August 17, 2021 Old Colony MPO Meeting

**Summary**

The Old Colony MPO is respectfully asked to consider approval of the August 17, 2021 Old Colony MPO Meeting Minutes.

# OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)

Minutes of the Old Colony MPO Virtual Meeting, August 17, 2021 - 10:00 A.M. Held Via Zoom

## Signatories Present:

Lee Hartmann, Representing Chairman Richard Quintal, Plymouth Select Board  
Meredith Anderson, Board of Selectmen, West Bridgewater  
Dan Salvucci, Vice-Chairman, Whitman Board of Selectmen  
Stephen Woelfel, Representing Jamey Tesler, Secretary and CEO, MassDOT  
Pam Haznar, Representing Jonathan Gulliver, Administrator, MassDOT Highway Division  
Michael Lambert, Administrator, Brockton Area Transit Authority (BAT)  
Mary Waldron, Representing Christine Joy, President, OCPC

## Others Present:

Glenn Geiler, BAT  
Kelly Forrester, BAT  
Andrew Reovan, FHWA  
Steven Higgins, Independence Associates  
Valerie Massard, Kingston  
Marry Ellen DeFrias, MassDevelopment  
Jay Pateakos, MassDevelopment  
Michelle Ho, MassDOT  
Derek Krevat, MassDOT  
Derek Shooster, MassDOT  
Barbara Lachance, MassDOT District 5  
Lea Filson, SeePlymouth  
Shawn Bailey, OCPC  
Ray Guarino, OCPC  
Charles Kilmer, OCPC  
Guoqiang Li, OCPC  
Bill McNulty, OCPC  
Kyle Mowatt, OCPC

## 1. Call to Order and Introductions

Chairperson Stephen Woelfel called the meeting to order at 10:03 A.M. and then read the meeting accessibility statement, and the Title VI Notice of Protection Statement. Charles Kilmer conducted the roll and announced that a quorum is present.

## 2. Public Comments

There were no public comments offered at this time.

## 3. Minutes of the June 15, 2021 Meeting

Chairperson Woelfel asked the MPO Members for comments or changes regarding the minutes of the June 15, 2021 meeting.

# OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)

Meredith Anderson made a motion and Dan Salvucci seconded to endorse the minutes of the June 15, 2021 meeting.

There being no changes, the Old Colony MPO then voted unanimously via roll call to endorse the minutes of the June 15, 2021 Old Colony MPO Meeting.

## 4. Brockton Area Transit (BAT) Report

Michael Lambert announced that the work force is healthy and on the job. BAT continues to do everything they can to support the City and region's effort to provide the vaccine as broadly and as widely as possible. BAT is a member of the Mayor's Health Equity Task Force and have hosted two vaccine sessions at the BAT Centre.

Michael Lambert then provided the following:

- July was BAT's biggest month as far as ridership since the pandemic began. There is a concern that there will be a potential decrease in ridership in August due to the Delta variant.
- BAT had their biggest month of mobile ticket use since the introduction of the app in the Fall.
- BAT is continuing to run their free weekend service for both transit and para transit. Ridership is up 30% over spring weekends. This free service will run through the Sunday of Labor Day.
- BAT continues to run in partnership with the MBTA and MassDOT with reduced fares on the Commuter Rail into Boston. This runs offering is available through mid-September.

## 5. MassDOT District 5 Update on Projects Under Design or Construction

Barbara Lachance provided updates on projects under design or construction. The updates are as follows:

### **PEMBROKE - REHABILITATION OF ROUTE 36 (CENTER STREET) FROM ROUTE 27 TO ROUTE 14**

- At PS&E and MassDOT review is completed, and comments have been submitted to the design engineer

### **STOUGHTON - INTERSECTION IMPROVEMENTS AND RELATED WORK AT CENTRAL STREET, CANTON STREET AND TOSCA DRIVE**

- 100% review has been completed

### **STOUGHTON - CORRIDOR IMPROVEMENTS ON ROUTE 138**

- At 25% Design and Design Public Hearing scheduled for the end of this month

### **BROCKTON - INTERSECTION IMPROVEMENTS AT CENTRE STREET (ROUTE 123) AND PLYMOUTH STREET**

- Expecting 25% Design to be submitted later in the Fall

### **BROCKTON - INTERSECTION IMPROVEMENTS AT LYMAN STREET/GROVE STREET/SUMMER STREET & REPLACEMENT OF GROVE STREET BRIDGE, B-25-005, OVER SALISBURY PLAIN RIVER**

## **OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)**

- Bridge type selection worksheet is in and under review

### **EASTON - CORRIDOR IMPROVEMENTS ON ROUTE 138 INCLUDING INTERSECTION IMPROVEMENTS AT ROUTE 138 (WASHINGTON STREET) AND ELM STREET**

- Next Steps include a Utility Meeting and a Design Public Hearing

### **HANSON - CORRIDOR IMPROVEMENTS ON ROUTE 14 (MAQUAN STREET), FROM THE PEMBROKE T.L. TO INDIAN HEAD STREET AND RELATED WORK**

- Next Steps include an upcoming meeting with the Town of Hanson to discuss advancing the project

### **ABINGTON - INTERSECTION IMPROVEMENTS AT HANCOCK STREET AND CHESTNUT STREET**

- 25% Design has been received and is under review

### **DUXBURY - SIGNAL INSTALLATION @ ROUTE 3 (NB & SB) RAMPS & ROUTE 3A (TREMONT STREET)**

- Project Manager is coordinating a kickoff meeting with the Town of Duxbury

### **Construction Updates**

#### **PLYMOUTH - TAYLOR AVENUE**

- Project is basically completed, and an official punch list has been submitted

#### **PLYMOUTH - OBERY STREET**

- Contractor is completing remaining work

#### **EASTON - CORRIDOR IMPROVEMENT ON DEPOT STREET FROM NEWELL TO WASHINGTON ST (138)**

- Contractor is working on drainage and utility work

#### **AVON - HARRISON BOULEVARD AT POND STREET**

- Contractor is continuing with the box cut widening and with the utility relocations

#### **EAST BRIDGEWATER - RESURFACING ON ROUTE 18 FROM WHITMAN ST TO CENTRAL ST**

- Contractor is working on concrete sidewalks and driveways and utility work is being finished

#### **WHITMAN - ROUTE 14 AND 18, ROUTE 18 and ROUTE 27**

- Project is basically completed; the traffic signals have been accepted and contractor is working to finish up latest punch list

#### **ABINGTON/ BROCKTON - INTERSECTION IMPROVEMENTS AT NORTH QUINCY, BOUNDARY AND CHESTNUT**

- Project almost completed
- Utility relocation is completed, and contractor is finishing up punch list

#### **BROCKTON - ROUTE 123 (PHASE 3)**

- Contractor is working on drainage, milling and overlaying work



# OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)

## STOUGHTON - IMPROVEMENTS AT RICHARD WILKINS ELEMENTARY SCHOOL (SRTS)

- Bids have been opened and awarded for this project
- Pre-construction meeting is today

## 6. FFY 2021-2025 Transportation Improvement Program (TIP) Amendments and/ or Adjustments

There are currently no Amendments and/ or Adjustments.

## 7. FFY 2021 Old Colony Unified Planning Work Program (UPWP) Budget Reallocation 2

- **Review and Potential Endorsement**

Charles Kilmer discussed the FFY 2021 Old Colony UPWP Budget Reallocation 2.

- 1500 - Title VI and Environmental Justice (EJ) – Decrease by \$5,000
- 2300 - System Planning Resource Activities – Increase by \$5,000
- 2400 - Geographic Information System (GIS) – Increase by \$5,000
- 3100 - Regional Traffic Studies, ITS, and Int. Planning – Decrease by \$5,000
- 3300 - Road Safety Audits (RSAs) at Multiple Locations – Increase by \$5,000
- 3400 - Active Transportation Study – Decrease by \$5,000
- 3500 - Climate Change Vulnerability Transportation Assessment – Increase by \$5,000
- 3600 - Performance Based Planning – Decrease by \$5,000

Meredith Anderson asked how the 1% change came about. Is it for the overall task budget or for each individual line item? Charles Kilmer stated that the 1% (+- \$5,000) is in regard to the overall task budget.

Chairperson Woelfel asked for a motion to endorse the Old Colony UPWP Budget Reallocation 2. Meredith Anderson made a motion and Dan Salvucci seconded the motion.

The Old Colony MPO voted unanimously to endorse the FFY 2021 Old Colony UPWP Budget Reallocation 2.

## 8. Draft Old Colony Public Participation Plan (PPP)

- **Public Comments and Potential Endorsement**

Charles Kilmer presented and reviewed the Draft Old Colony Public Participation Plan (PPP) Public Comments:

- OCPC Board of Directors - At their public meeting on June 30, 2021, reviewed and approved the Draft Old Colony PPP.
- Andrew Reovan, FHWA- Reviewed and provided comments and suggestions. OCPC met virtually with Andrew Reovan to review and discuss the comments.
- Joe Scardino - Inquired whether staff has considered regularly providing American Sign Language (ASL) Interpretation at meetings, as opposed to only upon request.
- Steve Higgins, Independence Associates (IA) – Offered that IA is available to provide Braille transcription services.

## **OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)**

- Old Colony JTC - Old Colony JTC at their public meeting on August 5, 2021, reviewed and approved the Draft Old Colony PPP.

Charles Kilmer stated that staff worked on a list of potential performance measures since the comments have been received. They are as follows:

### 1. Outreach

- Number and type of events / meetings held
- Number of announcements and documents distributed to the public

### 2. Participation

- Number (and Percentage) of Signatories at MPO Meetings
- Number (and Percentage) of JTC Representatives at JTC Meetings
- Number of participants at each event / meeting
- Number of organizations represented at each event / meeting
- Presence of public officials at each event / meeting
- Meeting and events accessible to people with disabilities and those with limited English proficiency
- Accessibility accommodations and language services provided free of charge, upon request, as available

### 3. Response

- Number of public comments received
  - Number of positive and / or negative comments
  - Mode of receipt (social media, email, etc.)
- Number of website hits
- Average response time to inquiries

### 4. Post Engagement Considerations

- Outputs - How many people attended or commented during a given participation activity?
- Outcomes - How did that participation affect the actual project or program?

Chairperson Woelfel asked for a motion to endorse the Draft Old Colony PPP. Meredith Anderson made a motion and Dan Salvucci seconded the motion.

Charles Kilmer then read the roll.

The Old Colony MPO voted unanimously via roll call to endorse the Draft Old Colony PPP.

## **9. Old Colony Active Transportation Study - Status Report**

Ray Guarino provided a status report on the Old Colony Active Transportation Study. The Old Colony Active Transportation Study builds upon studies previously prepared by OCPC including the series of Old Colony Bicycle and Pedestrian Connectivity and Livability Studies (Prepared in 2018, 2013, and

## OLD COLONY METROPOLITAN PLANNING ORGANIZATION (MPO)

2011) The current study process includes bicycle level of service (BLOS), based on the comfort-level method developed for the Highway Capacity Manual for bicycle travel. Safety analysis is included utilizing MassDOT crash clusters and crash history analysis as well as sidewalk gap analysis. A discussion of the Safe Routes to School Program and the Complete Streets Program in Massachusetts is also included.

A story map (interactive map) will be developed and provided on the OCPC website along with a PowerPoint presentation to make information available to the public regarding programmed projects as well as potential projects for bicycle and pedestrian improvements in the Old Colony Region.

Derek Shooster asked, are the non-fatal injuries on the slide of crash locations involve all non-fatal crash injuries or just incapacitating crash injuries, or neither? Ray Guarino stated that they are non-fatal crash injuries. The ones in red were fatalities, and the other were reported as injuries. Derek Shooster asked because incapacitating crash locations have implications for HSIP Funding. Mapping the data and determining the severity of crashes at locations is beneficial and informative for future research.

Pam Haznar stated that OCPC did a great job with this study.

### 10. Administrative Matters, Other Business, and Date and Time of Next Meetings(s)

Charles Kilmer provided the Date and Time of Next Old Colony MPO Meetings(s):

- September 21, 2021 at 10 AM
- October 19, 2021 at 10 AM

Charles Kilmer stated that Eldon Moreira's wife Madeline passed away this past week and then asked the MPO for a moment of silence. A moment of silence was taken.

Charles Kilmer recognized and then thanked Ben Muller for all of the assistance and guidance that he provided as MPO Liaison for the past 3 years.

### 9. Adjournment

Chairperson Woelfel adjourned the meeting at 10:55 AM.

Respectfully submitted,

*Kyle Mowatt*

Kyle Mowatt, Senior Transportation Planner

### List of Documents for the August 17, 2021 Old Colony MPO Meeting

- Minutes of June 15, 2021, Old Colony MPO Meeting
- Staff Report for August 17, 2021 Old Colony MPO Meeting Agenda Items

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 4  
Brockton Area Transit Authority (BAT) Report

**Summary**

Brockton Area Transit to provide report.

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 5  
MassDOT District 5 Update on Projects Under Design or  
Construction

**Summary**

MassDOT District 5 to provide report.

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 6  
FFY 2022-2026 Transportation Improvement Program (TIP)  
Amendments and/ or Adjustments

**Summary**

The Old Colony MPO is asked to review and consider Amendments and/ or Adjustments as needed.

October 19, 2021 Old Colony MPO Meeting  
Agenda Item 7  
Performance Based Planning and  
Brockton Area Transit (BAT) Transit Asset Management (TAM)  
Fiscal Year 2022 Transit State of Good Repair Targets

- Presentation, Discussion, and Possible Adoption of the Proposed Set of Federally Required Performance Targets Pertaining to Transit State of Good Repair

### **Summary**

In 2012, the Moving Ahead for Progress in the 21st Century Act (MAP-21) mandated FTA to develop a rule establishing a strategic and systematic process of operating, maintaining, and improving public capital assets effectively through their entire life cycle. The Transit Asset Management (TAM) Final Rule 49 USC 625 became effective October 1, 2016 and established four performance measures to approximate the State of Good Repair (SGR) for four categories of capital assets. Calculating performance measures helps transit agencies to quantify the condition of their assets, which facilitates setting targets that support funding prioritization.

<b>Asset Category</b>	<b>FTA established Performance Measure</b>
Rolling Stock	% of revenue vehicles exceeding ULB
Equipment	% of non-revenue service vehicles exceeding ULB
Facilities	% of facilities rated under 3.0 on the TERM scale
Infrastructure	% of track segments under performance restriction

For each asset category, the performance measure is a characterization of the percentage of the number of assets that are not in a state of good repair. All of the performance measures have been designed with the goal of having low values. As the age increases or condition of assets deteriorates, the value of the performance measures will increase.

### Target Setting

A target is a goal associated with performance that is used to track the progress of capital assets towards achieving a state of good-repair. Targets connect a provider's strategic goals to the actions that the provider will take to reach those goals. The TAM Final Rule defines a performance target as a quantifiable level of performance or condition, expressed as a value for the measure, to be achieved within a time period required by FTA.



## Planning Targets

The TAM rule requires transit agencies to coordinate to the extent practicable with their State and MPO planning colleagues as well as share TAM data with them. However, in addition to the transit provider requirements, the 2016 Planning Final Rule requires:

- States and MPOs to establish performance targets that address the performance measures or standards established in the TAM Final rule.
- States and MPOs to coordinate targets to the maximum extent practicable with providers of public transportation.
- MPOs to establish performance targets 180 days after the transit agencies establish their performance targets.

Following the presentation by BAT and discussion, the Old Colony MPO is respectfully requested to consider adoption of the proposed set of federally required Performance Targets pertaining to Transit State of Good Repair for FY 2022.

# BROCKTON AREA TRANSIT AUTHORITY

## FY2022 PERFORMANCE TARGETS

**Background:** In 2012, MAP-21 mandated FTA to develop a rule establishing a strategic and systematic process of operating, maintaining, and improving public capital assets effectively through their entire life cycle. The TAM Final Rule 49 USC 625 became effective Oct. 1, 2016 and established four performance measures. The performance management requirements outlined in 49 USC 625 Subpart D are a minimum standard for transit operators.

Performance Targets by Asset Category						
Category	Class		Performance Target for FY22	Total # Vehicles	# of vehicles that exceed ULB - FY21	% of fleet that exceeds ULB - FY21
Rolling Stock	Buses	X% of fleet exceeds default ULB of 14	<b>8.00%</b>	<b>46</b>	<b>1</b>	<b>2.17%</b>
	Cutaway Buses	X% of fleet exceeds default ULB of 10	<b>25.00%</b>	<b>4</b>	<b>1</b>	<b>25.00%</b>
	Vans	X% of fleet exceeds default ULB of 8	<b>13.00%</b>	<b>58</b>	<b>10</b>	<b>17.24%</b>
Equipment	Non Revenue - Service Automobile	X% of non-revenue service vehicles exceeds default ULB of 8	<b>35.00%</b>	<b>3</b>	<b>1</b>	<b>33.33%</b>
	Non Revenue - Service Truck	X% of non-revenue service vehicles exceeds default ULB of 8	<b>40.00%</b>	<b>8</b>	<b>3</b>	<b>37.50%</b>
Facilities	Admin/Maintenance Facility	X% of facilities rated under 3.0 on TERM scale	<b>0.00%</b>	<b>3</b>	<b>0</b>	<b>0.00%</b>

October 19, 2021 Old Colony MPO Meeting

Agenda Item 8

Road Safety Audits (RSAs) at Multiple Locations Project

- Review of FFY 2021 and Introduction to FFY 2022

### **Summary**

Though the Old Colony MPO's FFY 2021 Unified Planning Work Program, Old Colony Planning Council conducted road safety audits at fifteen locations in Abington, Bridgewater, Brockton, East Bridgewater, Easton, Hanover, Kingston, Plymouth, Stoughton, and West Bridgewater. These audits were a collaborative effort of multidisciplinary teams consisting of OCPC planners, local public safety, local elected and municipal officials, the Massachusetts Department of Transportation, the Federal Highway Administration, Brockton Area Transit, and our legislative delegation of State senators and representatives.

A Road Safety Audit (RSA) is the formal safety performance examination of an existing or future road or intersection by an independent, multidisciplinary team. It qualitatively estimates and reports on potential road safety issues and identifies opportunities for improvements in safety for all road users. Old Colony Planning Council uses the Road Safety Audit process to achieve safety performance goals of reducing the number of serious injuries and fatalities on the roadway network.

Old Colony Planning Council is looking forward to continuing this effort in the MPO's FFY 2022 Unified Planning Work Program. OCPC staff are currently reviewing their internal safety management system and coordinating with communities on site selection for FFY 2022.

For information about this Road Safety Audits at Multiple Locations Study, please direct inquiries to Project managers Bill McNulty ([wmcnulty@ocpcrpa.org](mailto:wmcnulty@ocpcrpa.org)) at 508.583.1833 x207.

## 1. Project Timeline

This Road Safety Audits at Multiple Locations project is being prepared under Task 3300 of the FFY 2022 Old Colony Unified Planning Work Program. The project begins in October 2021 and runs through the program year, concluding before the end of September 2022.

## 2. Study Team

The study team will consist of the following Old Colony Planning (OCPC) staff:

- A. Bill McNulty – Team Leader
- B. Ray Guarino – Technical Analysis, RSA Facilitator
- C. Guoqiang Li – Technical Analysis, RSA Facilitator.
- D. Kyle Mowatt – Data Collection Data Analysis, RSA Facilitator
- E. Shawn Bailey – Data Collection, Data Analysis, RSA Facilitator
- F. Andrew Vidal – GIS/Maps
- G. Matthew Cady / Intern – GIS/Maps

The study may require other staff in support of completing the study on an as needed basis.

## 3. Purpose Statement

To continue a successful and popular regional Road Safety Audit program from the FFY 2021 Unified Planning Working Program, conducting Road Safety Audits at multiple locations throughout the region. The Massachusetts Department of Transportation (MassDOT) has created and maintains its Strategic Highway Safety Plan (SHSP), which states the mission to “develop, promote, implement, and evaluate data-driven multidisciplinary strategies to maximize safety for users of the roadway system.” One of the many strategies noted in the current SHSP is to “conduct Road Safety Audits at high crash locations throughout the Commonwealth. A Road Safety Audit, as defined by the Federal Highway Administration (FHWA), is “a formal safety performance examination of an existing or future roadway or intersection by an independent audit team.” An RSA is a process that identifies safety improvements focused on the reduction of number and severity of roadway crashes. The safety improvements recommended typically vary from low cost measures that can be implemented rather quickly to significant improvement projects. Many states that have implemented the RSA technique have seen measurable decreases in the number of rashes with fatal and incapacitating injuries.

This task consists of a systematic process that has the goal of reducing the number of and severity of traffic crashes on roads; reducing transit crashes; reducing pedestrian involved crashes and injuries, and reducing bicyclist involved injuries and crashes. Recommend

## **Scope of Work    Old Colony Planning Council    Road Safety Audits at Multiple Locations**

actions include providing information for selecting and implementing effective safety stratifies and projects. Results of the Road Safety Audits will be included in the ongoing Old Colony Safety Management System that incorporates roadway, human, and vehicle safety elements. Considered an ongoing effort, staff will collect and maintain data needed in the estimation of refined performance measures and the completion of road safety audits. Staff will identify both existing and future needs of the region’s multi-modal transportation system with regard to safety.

### **4. Study Area**

The Study Area will consist of locations throughout the Old Colony region. Locations will be determined based on MassDOT Crash Clusters and the Old Colony Safety Management System intersection monitoring system, both of which are calculated using an Equivalent to Property Damage Only (EPDO) methodology. The EPDO methodology is a weighted value which incorporates crash frequency and severity. In addition to this data driver approach for site selection, community stakeholders will be engaged to invite input into local high priority intersections or road segments in their municipalities.

### **5. Public Outreach**

A. Stakeholders will be identified for the study and will include those who have the potential to be impacted by the study, those who are important in the implementation of improvements, those who have an operational or jurisdictional responsibility in the study area, and those with an interest in the study and process. Stakeholders will vary by individual road safety audit locations.

B. Each Road Safety Audit will consist of an audit meeting, which will be held virtually unless otherwise specified. All RSAs are open to the public and all in attendance will have an opportunity to review materials and comment. A Road Safety Audit report will be generated which will provide a summary of the Audit meeting, comments offered, and recommendations proposed along with recommendations presented by Old Colony Planning Council staff. Stakeholders and the public alike will have the opportunity to review the report and provide further comment.

C. Invited stakeholders to comprise multidisciplinary audit teams for each Road Safety Audit will include but not necessarily limited to:

- Old Colony Planning Council Staff
- Massachusetts Department of Transportation (MassDOT)
- Municipal Elected Officials (Mayor, City Council, Select Boards, Town Managers and Administrators)
- Local State Senators and Representatives
- Municipal Planning Staff

## **Scope of Work    Old Colony Planning Council    Road Safety Audits at Multiple Locations**

- Municipal Public Safety (Police and Fire Departments)
- Municipal Departments of Public Works
- Municipal engineering Staff
- Municipal School Departments

### **6. Inventory and Review of Peer Studies and Planned Improvements**

- A. Compile and review previous traffic studies pertinent to each individual location of study.
- B. Consult with municipalities and MassDOT to identify both previously implements and/or planned safety strategies or projects.
- C. Compile information on potential projects that will impact future trip generation within the study area network.

### **7. Assess and Analyze Existing Conditions**

- A. Obtain crash reports (including crash diagrams) from each respective police department or Massachusetts Department of Transportation (MassDOT) for each individual Road Safety Audit location and then prepare collision diagrams.
- B. Collect turning movement counts at each Road Safety Audit location. The turning movement counts will be conducted during the following times AM 7:00 AM to 9:00 AM and 4:00 PM to 6:00 P M .
- C. Collect special speed regulations; right-of-way plans if available; signal permits if applicable; local Complete Streets prioritization plans if applicable; local Heavy Commercial Vehicle Exclusions if applicable; and any other background data that could prove useful in the Audit team’s analysis of the location.
- D. A Physical Inventory (photo and/or video documentation) will be completed for each Road Safety Audit location. This inventory should note
  - Sidewalks and bicycle tracks and/or pedestrian paths
  - Bicycle accommodations
  - Pedestrian accommodations
  - Utility poles and lighting
  - Traffic signal and pedestrian signals (location of poles and the direction and lanes the signals face)
  - Signs, signage and traffic control (speed limits, stop signs, no turn on red, no parking and parking limitations, etc.)
  - Hydrants and other utilities and fixtures including (but not limited to) drainage, guard rails, walls, traffic islands, curbs (granite or bituminous) and curb cuts

## **Scope of Work      Old Colony Planning Council      Road Safety Audits at Multiple Locations**

- Number of vehicular lanes and lane use, including pavement markings, crosswalks
- Land uses and landmarks

D. Review of existing conditions will include a field review of existing land use, and a review of existing zoning within the study area.

E. Review of existing conditions will include a field review of existing pavement conditions in the study area corridors utilizing OCPC's pavement management system

F. Existing peak hour level-of-service analysis for signalized and un-signalized intersections shall be calculated utilizing software based on the Highway Capacity Manual.

G. Crash data from 2017, 2018, 2019, and 2020 (and 2021) (the three most recent years of available data) for the road safety audit intersections will be compiled and the number, type, and severity of crashes shall be documented, based on the practices published in the Manual on Traffic Engineering Studies. Crash patterns regarding type and cause will be discerned. Collision diagrams for each road safety audit location will be produced.

H. Crash rates for the road safety audit intersections shall be developed based on practices published in the Manual of Traffic Engineering Studies and compared to average crash rates for the state and for the region.

I. Maps will be developed including but not limited to illustrating the geographic scope, surrounding land use, environmental justice populations, and environmentally sensitive areas surrounding each road safety audit location,

### **6. Identify Current and Potential Deficiencies**

Current and potential deficiencies will be documented by the respective multidisciplinary audit teams, based on traffic and safety assessments, at each road safety audit location

### **7. Develop Recommendations**

Recommended safety strategies and projects will include those made by the respective multidisciplinary audit teams, along with those proposed by Staff based on best planning and engineering practices.

### **8. Document Results**

A draft report documenting findings and recommendations will be prepared for each road safety audit, and circulated to each respective road safety audit team for review and comment. A final report for each road safety audit location, incorporating public comments, will be released following the RSA team review.



October 19, 2021 Old Colony MPO Meeting  
Agenda Item 9  
Administrative Matters, Other Business, and Date and Time of  
Next Meeting(s)

**Summary**

**Resilient Transportation and Climate Adaptation Summit = October 20, 2021 at 1 PM**

Please join Old Colony Planning Council (OCPC) as we host a virtual summit with Metropolitan Area Planning Council (MAPC), Cape Cod Commission (CCC), Southeastern Regional Planning and Economic Development District (SRPEDD), and the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA) in an informative discussion on planning for adaptation to Climate Change and reducing greenhouse gas emissions from transportation. For more information, please visit [www.ocpcrpa.org](http://www.ocpcrpa.org)

## **2021 MassDOT Moving Together Virtual Conference - December 7-9, 2021**

- Attend workshops and panels that highlight current pedestrian, bicyclist and public transportation topics
- Network with colleagues representing diverse interests from the public, academic and private sectors
- All new site visits and mobile workshops led by engineers and bicyclist/pedestrian advocates.

For more information, please visit <http://movingtogetherma.org/>

## **Date and Time of Next Old Colony MPO Virtual Meeting(s)**

The Old Colony MPO members are respectfully requested to schedule the date and time of their next virtual meeting(s).

### **2021**

- **November 16, 2021 at 10 AM**
- **December 21, 2021 at 10 AM**

### **2022**

- **January 18, 2022 at 10 AM**
- **February 15, 2022 at 10 AM**
- **March 15, 2022 at 10 AM**
- **April 19, 2022 at 10 AM**
- **May 17, 2022 at 10 AM**
- **June 21, 2022 at 10 AM**