



## BOSTON REGION METROPOLITAN PLANNING ORGANIZATION

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Stephanie Pollack, MassDOT Secretary and CEO and MPO Chair  
Tegin L. Teich, Executive Director, MPO Staff

### ***WORK PROGRAM***

## **MAPPING MAJOR INFRASTRUCTURE TRANSPORTATION MILESTONES**

JANUARY 21, 2021

### **Proposed Motion**

The Boston Region Metropolitan Planning Organization (MPO) votes to approve this work program.

### **Project Identification**

#### **Unified Planning Work Program (UPWP) Classification**

Boston Region MPO Planning Studies and Technical Analyses

**Project Number** 13307

#### **Client**

Boston Region MPO

#### **Project Supervisors**

*Principal:* Jane Gillis

*Manager:* Kenneth Dumas

#### **Funding Source**

MPO Planning and §5303 Contract #112310

### **Schedule and Budget**

**Schedule:** Eight months after work commences

**Budget:** \$20,000

Schedule and budget details are shown in Exhibits 1 and 2, respectively.

### **Relationship to MPO Goals**

The Boston Region MPO elected to fund this study with its federally allocated metropolitan planning funds during federal fiscal year 2021

## Background

The Central Transportation Planning Staff (CTPS) has a vast encyclopedia of historical transportation information. This information could be better used in CTPS' planning and public outreach efforts with the creation of an online application.

## Objective(s)

Create an online application that displays both a map and adjacent text detailing the major multimodal transportation infrastructure milestones within the Boston Region MPO from 1800 to present.

## Work Description

### **Task 1 Complete Master List of Infrastructure Milestones**

CTPS has compiled a master list of all the major transportation infrastructure milestones which will be updated and verified for accuracy. Major infrastructure milestones include official openings or closings of turnpikes, interstate highways, rail lines, rapid transit lines, rail trails, airports and significant transportation legislation within the Boston Region MPO.

#### *Products of Task 1*

Master list of transportation infrastructure milestones

### **Task 2 Create Map Displaying Transportation Infrastructure Milestones**

Based on the master list, CTPS will create a map displaying all the transportation infrastructure milestones. Each project will have its own layer. The application will allow layers to be turned on or off according to the year in which the milestone was constructed or removed. Some milestones, such as legislation, will not appear on the map, but presented as text adjacent to the map.

#### *Products of Task 2*

Final map saved as an SVG file, with a unique identifier for each layer, in order to allow the online application to display layers selectively

### **Task 3 Finalize Application**

The map will be incorporated into the online application. A slider bar will be added to move the map display forward and backward in time. The slider will control the layers displayed in the map according to the year in which each milestone was constructed or removed. As the slider is moved to a given year, text with a detailed description of each milestone and notable legislative events will be displayed in the adjacent text box.

***Products of Task 3***

Final online application with an interactive ability to display transportation infrastructure milestones by year, including a map with detailed information in an adjacent text box

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Title VI Specialist  
Boston Region MPO  
10 Park Plaza, Suite 2150  
Boston, MA 02116  
[civilrights@ctps.org](mailto:civilrights@ctps.org)  
857.702.3700 (voice)  
617.570.9193 (TTY)

**Exhibit 1**  
**ESTIMATED SCHEDULE**  
**Mapping Major Infrastructure Transportation Milestones**

Task	Month							
	1	2	3	4	5	6	7	8
1. Compile Master List of Infrastructure Milestones	A							
2. Create Map Displaying Transportation Infrastructure Milestones		B						
3. Finalize Application						C		

Products/Milestones

- A: Master list of transportation infrastructure milestones
- B: Final map saved as an SVG file to make it interactive for the online app
- C: Final online application

**Exhibit 2**  
**ESTIMATED COST**  
**Mapping Major Infrastructure Transportation Milestones**

<b>Direct Salary and Overhead</b>							<b>\$20,000</b>
Task	Person-Weeks			Direct Salary	Overhead (106%)	Total Cost	
	P-5	P-2	Total				
1. Compile Master List of Infrastructure Milestones	1.0	0.0	1.0	\$1,654	\$1,753	\$3,407	
2. Create Map Displaying Transportation Infrastructure Milestones	4.0	0.0	4.0	\$7,235	\$7,669	\$14,903	
3. Finalize Application	0.0	0.7	0.7	\$820	\$869	\$1,690	
Total	5.0	0.7	5.7	\$9,709	\$10,291	\$20,000	
<b>Other Direct Costs</b>							<b>\$0</b>
<b>TOTAL COST</b>							<b>\$20,000</b>

**Funding**  
MPO §5303 Planning Contract #112310