

Board Report:

Pavement Maintenance Update, Tree Clearing at Barnstable Municipal Airport & Unmanned Aerial Flights at Logan International and Worcester Regional Airport

September 21, 2020

Presented to:

■ **Board of Directors**

Presented by:

■ **Aeronautics Division**

➤ **Dr. Jeff DeCarlo**

Pavement Maintenance and Markings Project Conducted at North Adams, Northampton and Sterling Airport

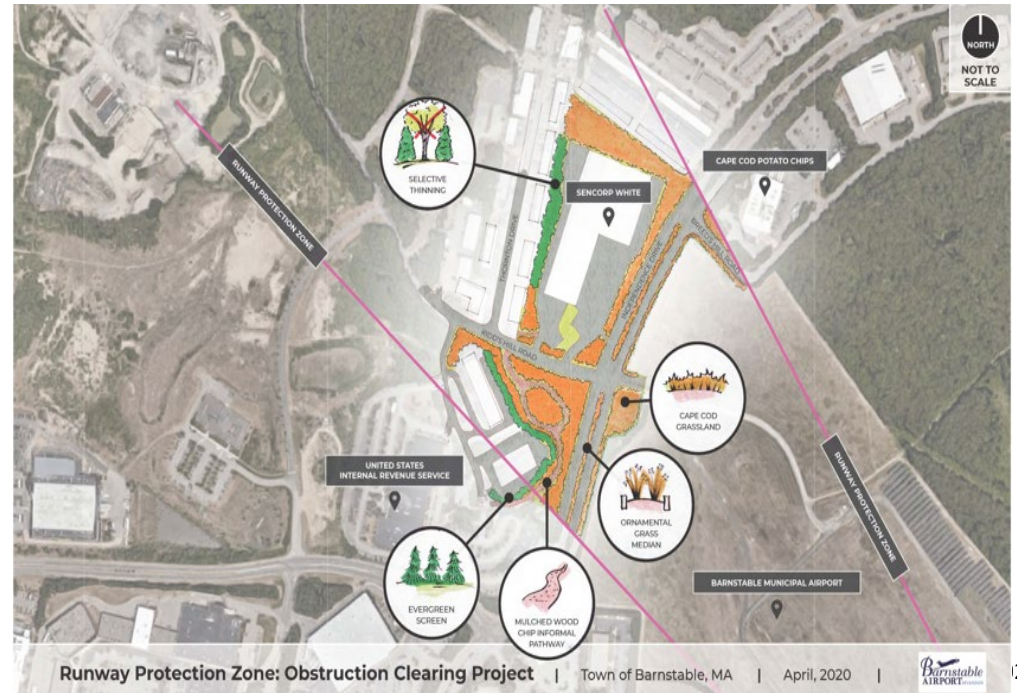


- Project used FAA-approved methods such as crack sealing/crack repair, and recent innovative technologies in pavement preservation/markings for taxiways & runways
- MassDOT exploring low-cost alternatives to other methods of pavement reconstruction. Rapid Cure Asphalt Seal Coat is one technique applied in pavement preservation that is used to extend the life of the pavement beyond its typical life cycle
- Rapid Cure Asphalt Seal Coat was used on pavements of varying ages at North Adams (9 years), Northampton (19 years) and Sterling (28 years)
- Additionally, Type III Markings were used throughout the contract. Type III Paint is applied thicker and contains a polymer that makes the paint more durable than traditional paints



Tree Clearing & Obstruction Removal Conducted at Barnstable Municipal Airport (HYA)

- MassDOT facilitated the removal of vegetation penetrating the FAA's Runway Protection Zone (RPZ) to Runway 15 at HYA
- Airport management worked with the Town to remove obstructions along the street right of ways and provided added landscaping to benefit the community
- By facilitating the tree removal and clearing, the airport has increased the safety of flight operations while enhancing community engagement



Tree Clearing & Obstruction Removal Conducted at Barnstable Municipal Airport (HYA)



- MassDOT invested \$600K in the tree clearing project which will allow the airport to leverage more than \$15M in federal funds toward the reconstruction of their runways
- The airport prepared a plant restoration plan and walking pathway as part of the Cape Cod Commission's recommended mitigation. The plan provides enhanced community benefits



Landscaped Medians



Cape Cod Commission Walkway Mitigation Project

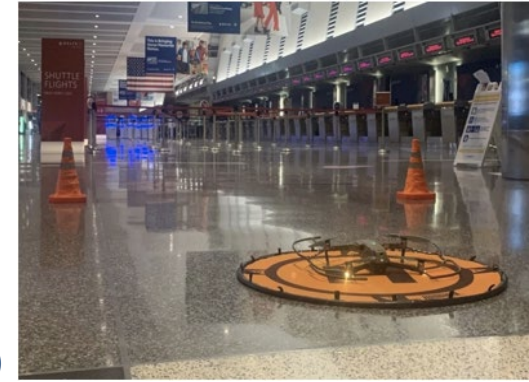


Tree Obstructions - Runway 15 Approach

Unmanned Aerial System (Drone) Flights at Logan International & Worcester Regional Airport



- Partnering with the Massachusetts Port Authority (Massport), the MassDOT Aeronautics' Drone Team captured aerial videos of all Logan Airport Terminal lobbies in support of an innovative remote Request for Proposal (RFP) session - typically held on site
- The use of highly-detailed drone imagery allowed vendors to view the terminal infrastructure virtually for an RFP information session on passenger flow management and social distancing in support of COVID 19 safety and security procedures
- Imagery of the Worcester Regional Airport Runway 11/29 construction project was captured by the drone team to support a virtual ground-breaking event with the Lt. Governor and Worcester Congressmen
- Scheduled date of event - TBD



Logan International Airport Terminal



Worcester Airport Runway 11 Approach

9/21/2020