

BVY AIRPORT MASTER PLAN

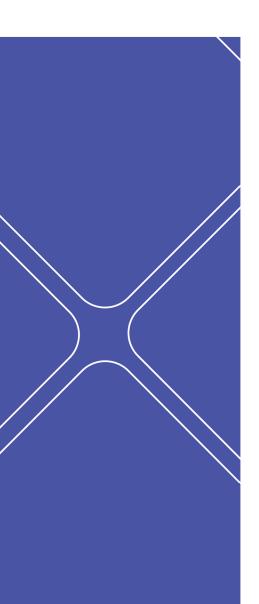
Town of Wenham Community Meeting

April 28, 2021









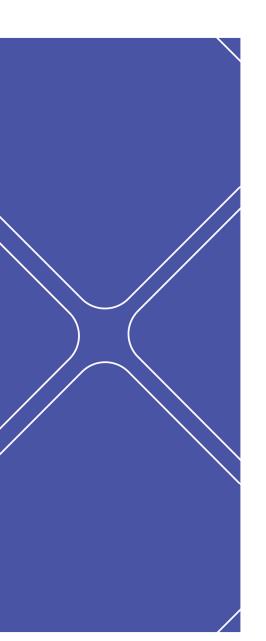
MEETING OBJECTIVES

Today we will leave with:

- As awareness of the public comments received to-date
- An understanding of steps undertaken by the Airport regarding noise issues
- Knowledge of the updated noise study and findings
- A review of the implementation elements of the Master Plan
- An awareness of next steps
- An understanding of comments, questions, concerns

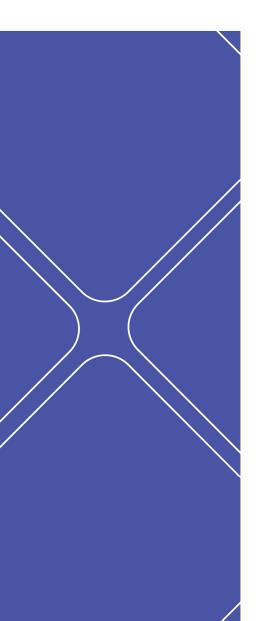
VIRTUAL MEETING

- There will be a presentation with <u>3</u> intermittent Q&A sessions during the presentation <u>for clarifying</u> <u>questions</u>
- There will be a general Q&A and open comment session at the conclusion of the presentation
- The meeting will be recorded and posted to the project website
- Please mute your microphone when you are not speaking
- Please use the "Raise Your Hand" function at the bottom of the screen if you wish to speak during the Q&A sessions
- Please don't use the Chat for public comment
- We appreciate everyone's patience!



WE HEARD FROM CITIZENS!

- We appreciate all the comments and input that we have received to-date
- We heard from 54 citizens and the Danvers Board of Selectmen
- The project communication log includes comments heard during our community meetings in January and comments we received via email
- The communication log will be published tomorrow at www.beverlyairport.com (see the Master Plan tab)
- We have removed names and addresses for privacy purposes



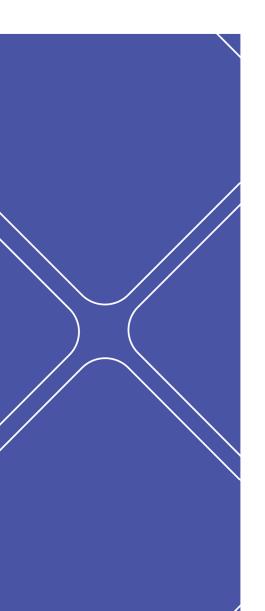
PUBLIC COMMENT - THEMES

COMMUNITY COMMUNICATION

- Request for advance notification of anticipated events
- Request for routine communication to all surrounding communities about airport activities

ECONOMIC BENEFIT/PROPERTY VALUES

- Lack of economic benefit to all the communities
- Lack of economic benefit to communities other than Beverly
- Concern about property valuations decreasing due to airport activities



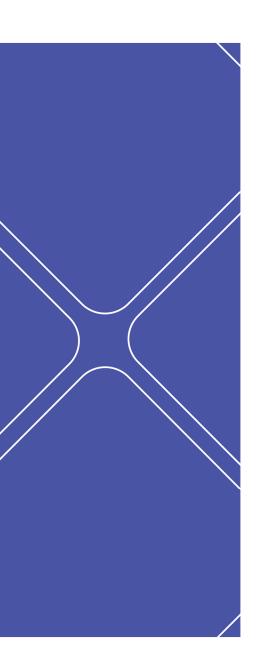
PUBLIC COMMENTS - THEMES

NOISE

- Overwhelming number of comments pertained to existing noise issues
- Additional comments expressed concern of increased noise related to proposed runway extension

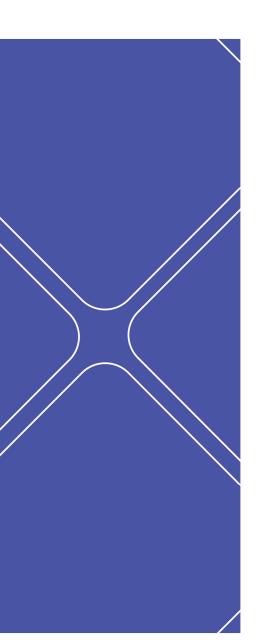
SAFETY

- Concern of jet fuel odors
- Concerns regarding aircraft accidents
- Impact of LED lighting



AIRPORT ACTIONS - NOISE

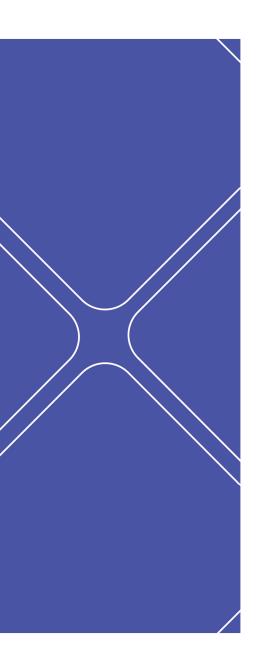
- Formation of Airport Commission Noise Subcommittee
 - Routine review of complaints
 - Meet with airport operators
 - Provide updated voluntary noise abatement procedures for locally based pilots and transient pilots
 - Provide routine update at Airport Commission meetings
 - Enhance internal process for reviewing noise complaints
 - Requested municipalities to designate participants
- Significantly enhanced noise and safety webpage:
 - Voluntary Noise Abatement Procedures
 - FAA Noise Guidance link, FAA Noise Basics link and other resource links
 - FAA Noise Ombudsman contact information
 - Airport Noise and Safety Information | Beverly Regional Airport (beverlyairport.com)
- Ongoing discussions with FAA Air Traffic Control Tower, Flight Schools, and major operators
- Review of 2020 operation increase was likely related to the 3-month closure of all flight schools resulting in a pent-up training demand during a flight compressed season



AVIER FLIGHT SCHOOL

Newly introduced Good Neighbor Policy

- We encourage full length departures, at BVY which maximizes elevation when crossing the airport boundary.
- Patterns are flown at reduced RPM (within operational limits) once pattern altitude is achieved.
- Departures from the area will maintain Vy for as long as operationally feasible, to at least 2,000 feet.
- Touch and Go landings are only used rarely at our school. We favor full stop landings with taxi back for quality of training; but the additional benefit is that we are not departing from mid-field.
- We have implemented a curriculum that favors cross country scenariobased training which, in addition to the educational benefit, also serves to dilute our local operations.
- We have begun development of a carbon reduction initiative that is resulting in education of our clients in the area of reduced power settings and improved fuel leaning procedures. This reduction in power also results in a reduction of sound.



OTHER AIRPORT ACTIONS

- The Airport will continue to communicate operational issues to the FAA Air Traffic Control Tower
- The Airport will continue to meet all federal and state safety requirements
- The Airport's will ensure that the future airfield LED lighting project matches the existing airfield lighting brightness
- The Airport will work with Commission representatives to ensure routine communications with elected officials and municipalities
- The Airport will continue to post activities on their website and Facebook page and will develop a semi-annual community newsletter about airport activities
- The Airport will explore establishing a communication system to advise citizens of airport events
- The Airport has posted MassDOT Aeronautics Economic Impact Study to the airport's website for further information

CLARIFYING QUESTIONS - SESSION #1

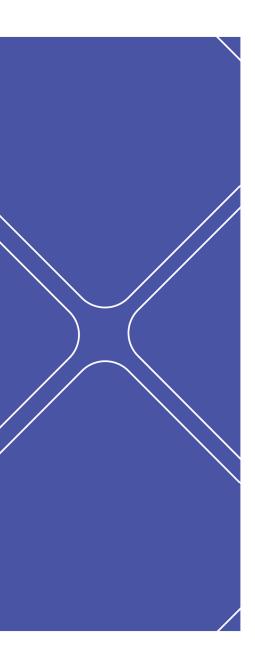


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NOISE STUDY



Photo Credit: gbouillon

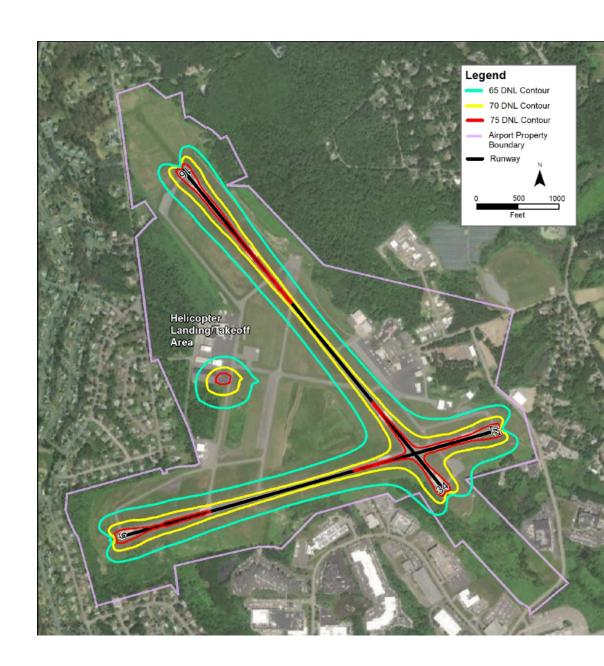


FAA LAND USE COMPATIBILITY
GUIDELINES

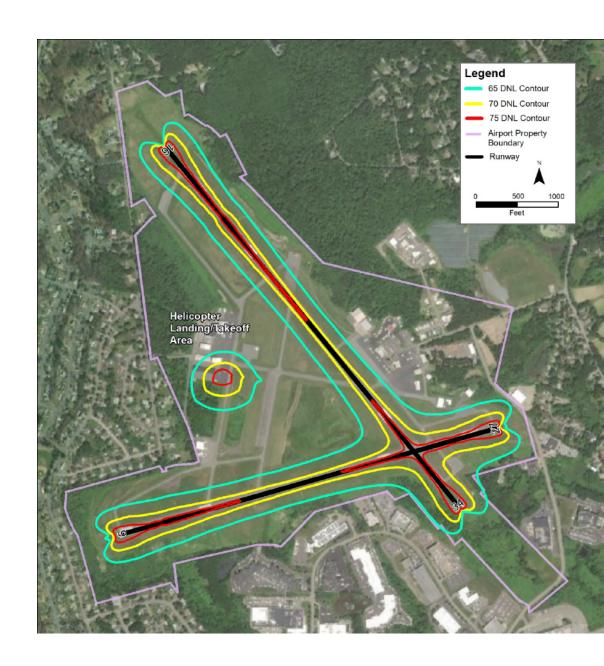
- FAA guidance identifies uses within designated noise contours based on Yearly Day-Night Levels (DNL) decibels
 - The FAA methodology annualizes single noise events
- Identified land uses include:
 - Residential
 - Public Use (schools, churches, etc.)
 - Commercial Use
 - Manufacturing and Production
 - Recreational
- In most instances, residential in areas of 65 DNL and up should be prohibited
- Residential uses in areas below 65 DNL are compatible
- The complete noise study will be posted at <u>www.beverlyairport.com</u> (see Master Plan tab)

	Yearly Day-Night Noise Level (DNL) in decibels							
Land Use	Below 65	65-70	70-75	75-80	80-85	Ove 85		
Residential								
Residential, other than mobile homes and transient lodgings	Υ	N(1)	N(1)	N	N	N		
Mobile home parks	Υ	N	N	N	N	N		
Transient lodgings	Υ	N(1)	N(1)	N(1)	N	N		
Public Use								
Schools	Υ	N(1)	N(1)	N	N	N		
Hospitals and nursing homes	Υ	25	30	N	N	N		
Churches, auditoriums and concert halls	Υ	25	30	N	N	N		
Government services	Υ	Υ	25	30	N	N		
Transportation	Υ	Υ	Y(2)	Y(3)	Y(4)	Y(4)		
Parking	Υ	Υ	Y(2)	Y(3)	Y(4)	N		
Commercial Use								
Offices, business and professional	Υ	Υ	25	30	N	N		
Wholesale and retail - building materials, hardware and farm equipment	Υ	Υ	Y(2)	Y(3)	Y(4)	N		
Retail trade – general	Υ	Υ	25	30	N	N		
Utilities	Υ	Υ	Y(2)	Y(3)	Y(4)	N		
Communication	Υ	Υ	25	30	N	N		
Manufacturing and Production								
Manufacturing, general	Υ	Υ	Y(2)	Y(3)	Y(4)	N		
Photographic and optical	Υ	Υ	25	30	N	N		
Agriculture (except livestock) and forestry	Υ	Y(6)	Y(7)	Y(8)	Y(8)	Y(8)		
Livestock farming and breeding	Υ	Y(6)	Y(7)	N	N	N		
Mining and fishing, resource production and extraction	Υ	Υ	Υ	Υ	Υ	Υ		
Recreational								
Outdoor sports arenas and spectator sports	Υ	Y(5)	Y(5)	N	N	N		
Outdoor music shells, amphitheaters	Υ	N	N	N	N	N		
Nature exhibits and zoos	Υ	Υ	N	N	N	N		
Amusements, parks, resorts and camps	Υ	Υ	Υ	N	N	N		
Golf courses, riding stables and water recreation	Υ	Υ	25	30	N	N		

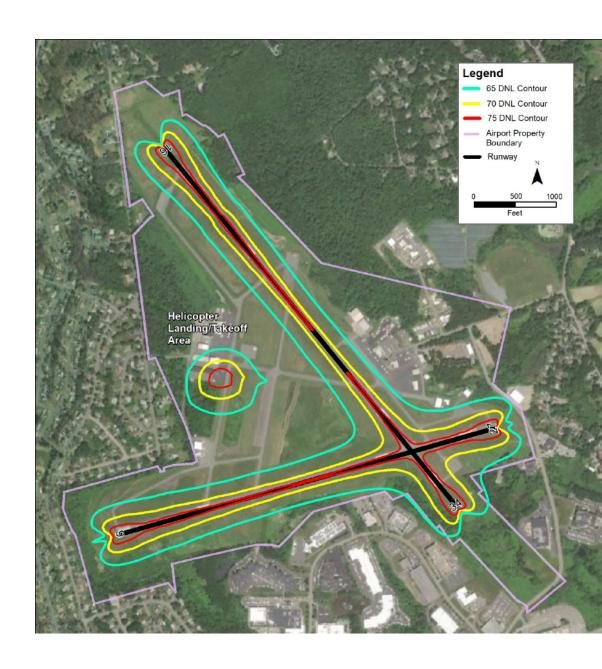
2019 DNL CONTOUR Existing Airfield







2039 DNL CONTOUR Includes Runway 16/34 Extension



CLARIFYING QUESTIONS - SESSION #2

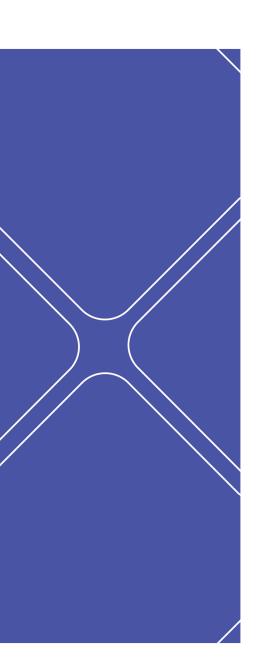


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MASTER PLAN PROCESS



Photo Credit: gbouillon



WHY DO WE MASTER PLAN AIRPORTS?

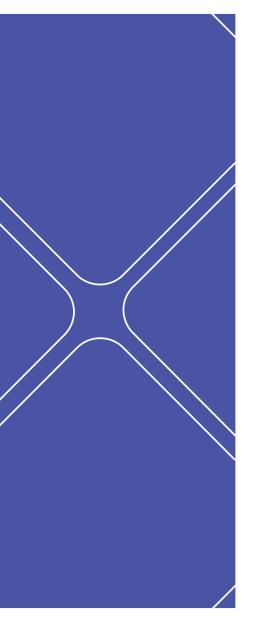
The Master Plan is a **20-year plan** to understand the needs of current and future users of the airport. It is important to ensure:

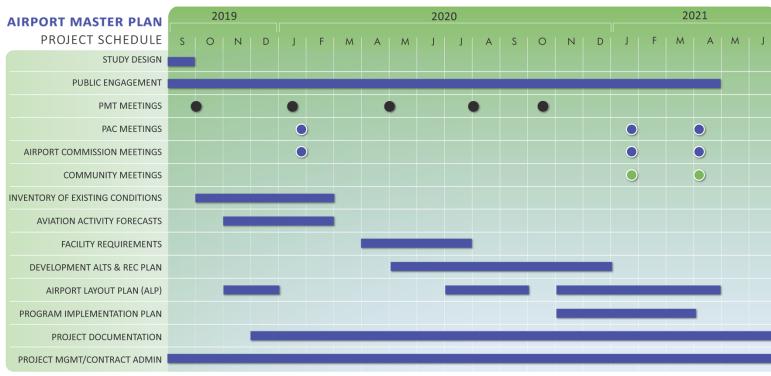
- safe and orderly development
- reflective of the community's values and goals
- through a purposeful, inclusive, and educational process

The Plan must be based on current conditions, community input, and forecasts

The Master Plan process cannot have a pre-determined outcome



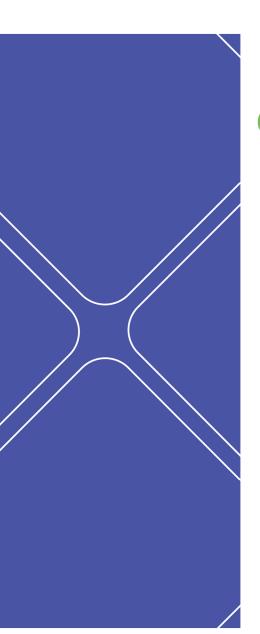




IMPLEMENTATION PLAN



Photo Credit: gbouillon



CONSIDERATIONS FOR RECOMMENDATIONS

Goals

- Meet FAA/MassDOT airport design safety standards which are based on upon the weight, size and frequency of aircraft that typically use BVY
- Support or enhance BVY's existing operational safety and efficiency
- Address needs of aircraft operators and tenants
- Maximize airport business development opportunities
- Minimize impacts to neighbors and environment



B-I

CITATION C.I.I



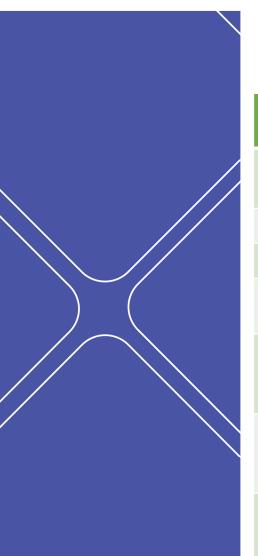


Forecast	2019*	2020**	2024	2029	2039
Based Aircraft	100	105	106	112	125
Aircraft Operations	66,949	69,117	70,765	74,800	83,571

* Forecast Base Year ** Actual

AVIATION DEMAND FORECASTS

At BVY, B-II remains the current airport reference code represented by the Cessna Citation Latitude



PROPOSED AIRPORT PROJECTS

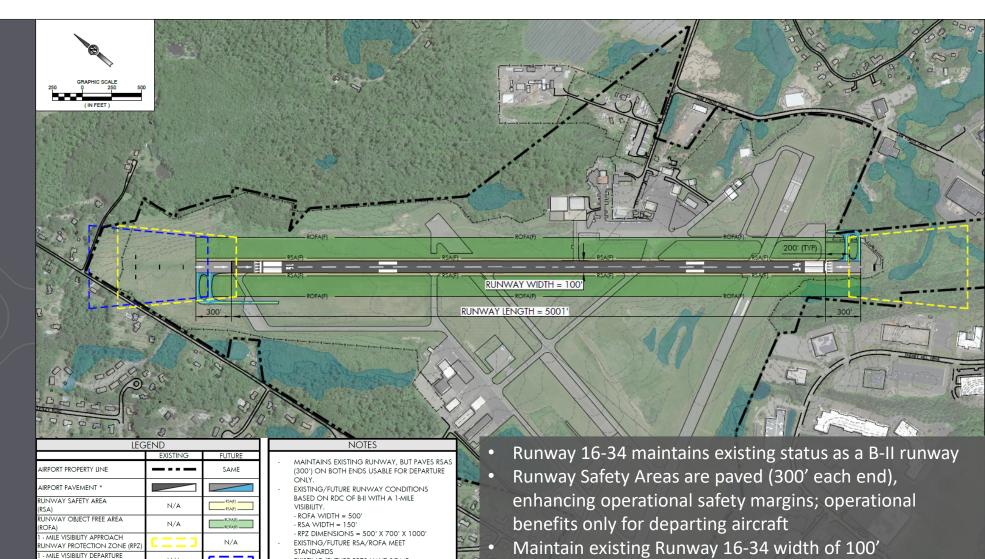
Кеу	Key Points
Increased RWY 16-34 Length for Departures	 Enhances aircraft operational safety factors Promotes effectiveness and benefits of newer GA aircraft
Narrowing width for RWY 9-27	Reduce pavement width per FAA design standards
Taxiway Realignments	Increases operational safety and efficiency for aircraft
Impervious Surfaces (Includes Vehicle Service Road)	 Existing airfield pavement to be removed: 701,835 s.f. Future airfield pavement to be added: 782,533 s.f.
Landside Development	 Maximizes financial sustainability for BVY and development potential for area businesses Constructed only if and when demand occurs
Vehicle Service Road	 Enhanced operational safety and security as well as increased efficiency Utilization of recycled mill material from runway project
Environmental	 Wetlands: Minimal impacts Noise: No significant change anticipated; study underway Lighting: Progressive upgrade to LEDs (incl. RWs & TWs) Waste: Recycling/reuse program

- MILE VISIBILITY DEPARTURE

WETLANDS

2-FOOT CONTOURS

RUNWAY PROTECTION ZONE (RPZ



grant offers

Supported by FAA and MassDOT with accompanying

EXISTING/FUTURE RPZS HAVE SOME

RDC OF C-II)

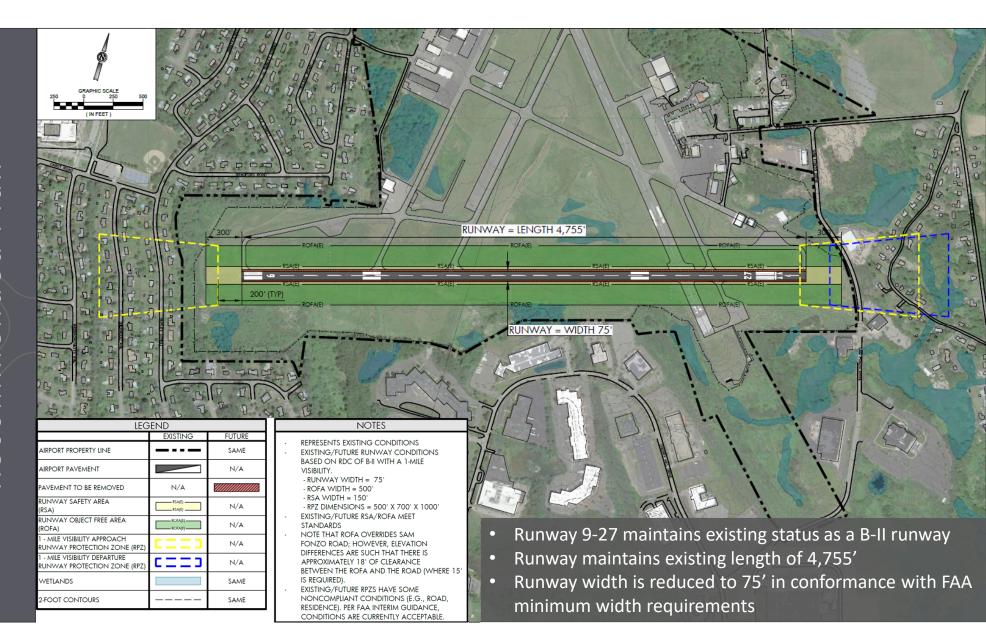
SAME

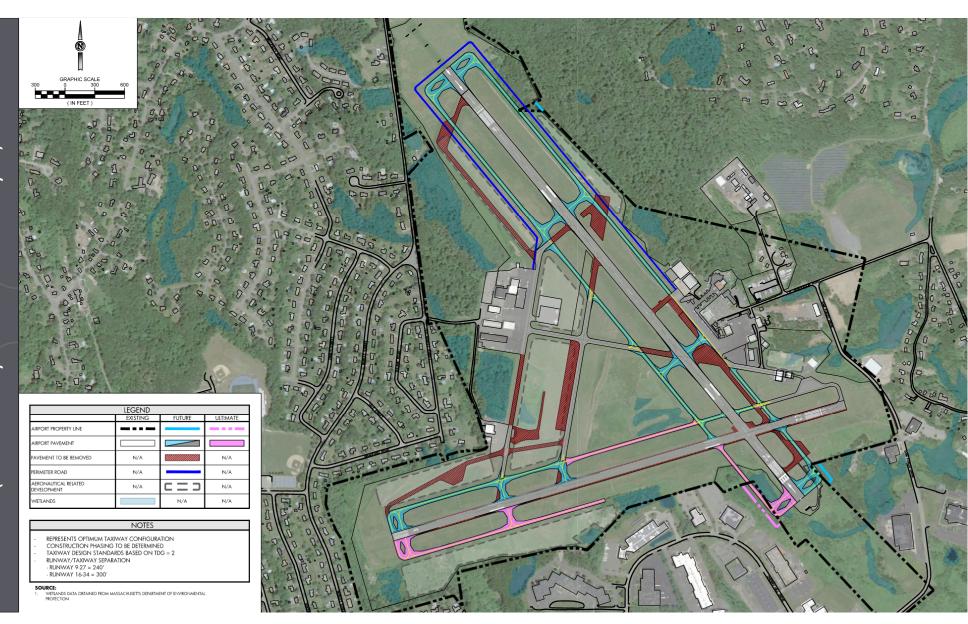
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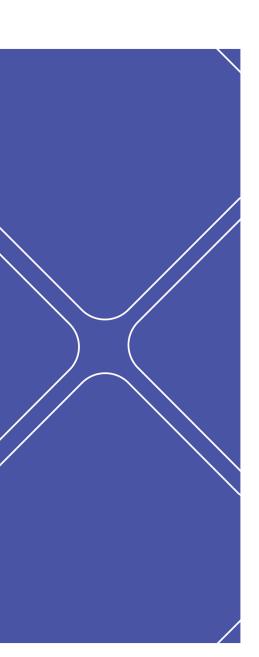
NONCOMPLIANT CONDITIONS (E.G., ROAD,

RUNWAY WIDTH = 100' (BASED ON ULTIMATE

RESIDENCE), PER FAA INTERIM GUIDANCE. CONDITIONS ARE CURRENTLY ACCEPTABLE.

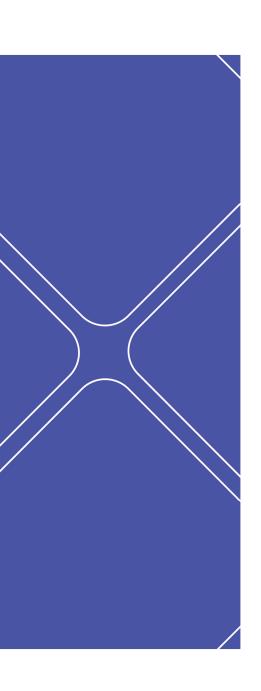






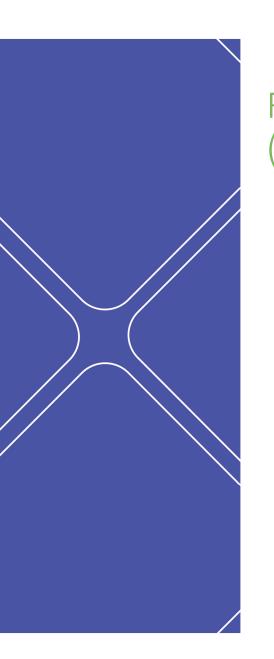
IMPLEMENTATION PLAN

- Identifies phased plan for implementation of recommended projects over a 20-year period
 - Phase I first 5 years
 - Phase II second 5 years
 - Phase III last 10 years
- Identifies potential funding sources for projects
 - Federal FAA
 - State MassDOT
 - Local Airport



OVERALL FINANCIAL REVIEW

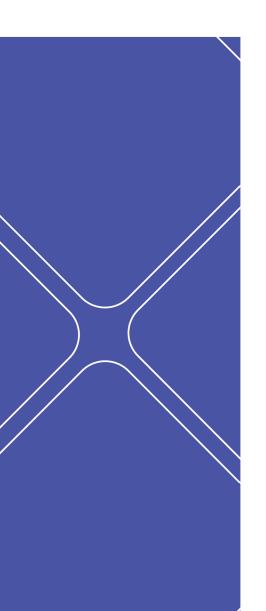
- Reviewed key Airport documents
- Interviewed Airport management
- Analyzed historical and current operating revenues and expenses
- Reviewed Capital Improvement Plan (CIP), cost opinions, and development schedule
- Analyzed sources and timing of capital funding
- Reviewed rates and charges
- Provided revenue enhancement recommendations



FAA AIRPORT IMPROVEMENT PROGRAM (AIP) FUNDING

- The FAA generally provides 90% funding of AIP eligible projects
- Revenue for the AIP is the Airport and Airway Trust Fund (AATF)
- The AATF collects its revenue from the following sources:

Domestic passenger ticket tax	Domestic commercial fuel tax
Domestic flight segment tax (excluding flights to/from rural airports)	Domestic general aviation gasoline tax
Tax on flight between continental United States and Alaska or Hawaii	Domestic general aviation jet fuel tax
International arrival/departure tax	Tax on domestic cargo or mail
Frequent flyer tax	



MASSDOT AERONAUTICS FUNDING

- MassDOT typically provides 5% matching grants for AIP eligible projects
- MassDOT also provided funding for non-eligible AIP projects through the Airport Safety and Maintenance Program (ASMP)
- MassDOT funding is from the following sources:

Aircraft registration fees	Aviation gasoline tax
Fees for air transportation charged to other state agencies	Biennial Transportation Bond



BVY FUNDING

- Beverly Regional Airport provides 5% of funding for AIP eligible projects
- Non-eligible AIP projects are funded through additional MassDOT funding or airport revenues
- The airport is an enterprise fund and receives no funding from the City of Beverly or any other municipality
- BVY collects its revenue from the following sources:

Fuel flowage fees	Landing fees
Land leases	Aircraft tie-down and other user fees

PHASE I: 2021-2025

CIP		PRIMARY FUNDING	ESTIMATED	FUNDING SOURCES				
CIP ID	PROJECT	SOURCE	CĂPITĂL COSTS*	FEDERAL	STATE	LOCAL	OTHER/ PRIVATE	
Α	Update SWPPP & SPCC	FAA	\$75,000	\$67,500	\$3,750	\$3,750	\$0	
В	Preliminary Design/EA/ENF/Permitting for Reconstruction of RW 16-34 (Ph 1)	FAA	\$144,200	\$129,780	\$7,210	\$7,210	\$0	
С	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
D	EA/ENF/Permitting for Reconstruction of RW 16-34 (Ph 2)	FAA	\$341,555	\$307,400	\$17,077	\$17,078	\$0	
E	Design, Reconstruct, Mark, Light, Groove, and Pave RSAs for RW 16-34	FAA	\$16,350,000	\$14,715,000	\$817,500	\$817,500	\$0	
F	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
G	Purchase Front End Loader	State	\$672,000	\$0	\$537,600	\$134,400	\$0	
	PHASE I PROGRAM TOTALS		\$19,582,755	\$15,219,680	\$1,383,137	\$979,938	\$2,000,000	

PHASE II: 2026-2030

CID		PRIMARY	ESTIMATED	FUNDING SOURCES					
CIP ID	PROJECT	FUNDING SOURCE	CAPITAL COSTS*	FEDERAL	STATE	LOCAL	OTHER/ PRIVATE		
Н	Preliminary Design/EA/ENF/Permitting for TW E Extension, TW B Relocation, & Perimeter Road	FAA	\$575,000	\$517,500	\$28,750	\$28,750	\$0		
- 1	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000		
J	Extend TW E (North) & Construct Perimeter Road (Ph 1)	FAA	\$7,375,000	\$6,637,500	\$368,750	\$368,750	\$0		
K	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000		
L	Relocate TW B & Construct Perimeter Road (Ph 2)	FAA	\$9,610,000	\$8,649,000	\$480,500	\$480,500	\$0		
М	Airport Master Plan	FAA	\$508,000	\$457,200	\$25,400	\$25,400	\$0		
N	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000		
PHASE II PROGRAM TOTALS			\$21,068,000	\$16,261,200	\$903,400	\$903,400	\$3,000,000		

PHASE III: 2031-2040

	Project	Primary Funding	Estimatod	Funding Sources				
CIP ID		Primary Funding Source	Estimated Capital Costs*	Federal	State	Local	Other/ Private	
0	Preliminary Design/EA/ENF/Permitting for TW E Extension & Reconstruct RW 9-27	FAA	\$520,000	\$468,000	\$26,000	\$26,000	\$0	
Р	Extend TW E - South	FAA	\$4,655,000	\$4,189,500	\$232,750	\$232,750	\$0	
Q	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
R	Reconstruct RW 9-27	FAA	\$11,120,000	\$10,008,000	\$556,000	\$556,000	\$0	
S	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
Т	Preliminary Design/EA/ENF/Permitting for TW D Relocation & Construct TW J	FAA	\$740,000	\$450,000	\$37,000	\$253,000	\$0	
U	Relocate TW D	FAA	\$6,191,000	\$5,571,900	\$309,550	\$309,550	\$0	
V	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
W	Construct TW J	FAA	\$5,495,000	\$4,945,500	\$274,750	\$274,750	\$0	
Х	Construct Hangar Building(s)/Apron	Other	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
	PHASE III PROGRAM TOTALS		\$32,721,000	\$25,632,900	\$1,463,050	\$1,652,050	\$4,000,000	

CLARIFYING QUESTIONS - SESSION #3



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NEXT STEPS



Photo Credit: gbouillon





- Presentation and draft implementation chapter will be available tomorrow online at www.beverlyairport.com (see Master Plan tab)
- Virtual Community Meetings 6-8pm: Danvers (4/27), Wenham (4/28), and Beverly (4/29) see website for meeting links
- Review and comment by FAA of Airport Layout Plan (ALP)
- Production of Final Report
- Presentation of Master Plan to Airport Commission for consideration of approval and adoption

Please submit comments by May 28, 2021

Email: jim.miklas@woolpert.com

Mail: Beverly Regional Airport Administration, 50 L.P. Henderson Road,

Beverly, MA 01915

QUESTION & ANSWER SESSION



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Thank You!

Gloria Bouillon Airport Manager gbouillon@beverlyma.gov

Jim Miklas Lead Planner Jim.miklas@woolpert.com