Airport Master Plan Update



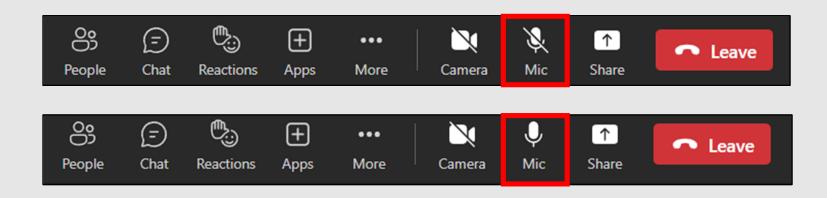
E.F. Knapp State Airport (MPV)

Public Information Meeting January 25, 2023

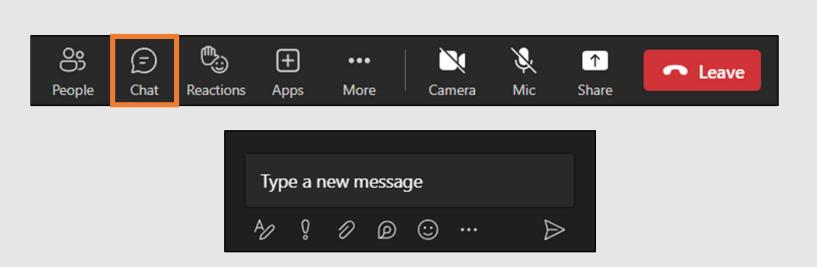


Microsoft Teams Meeting Instructions

 If your device has voice capabilities, you can unmute yourself (red square) at any point to speak



 Additionally, you can type out your comment/question via the chat function (orange square)



Today's Agenda

- Overview of Master Plan Process
- Review of Study Findings
 - Airport Inventory
 - Airport Forecast
 - Airport Facility Requirements
 - Recommendations
- Draft Recommended Plan
- Draft Airport Layout Plan
- Next Steps
- Open Discussion/Questions



What is the Purpose of this Meeting?

Community Engagement:

- Present the study findings
- Answer questions
- Collection input/comments

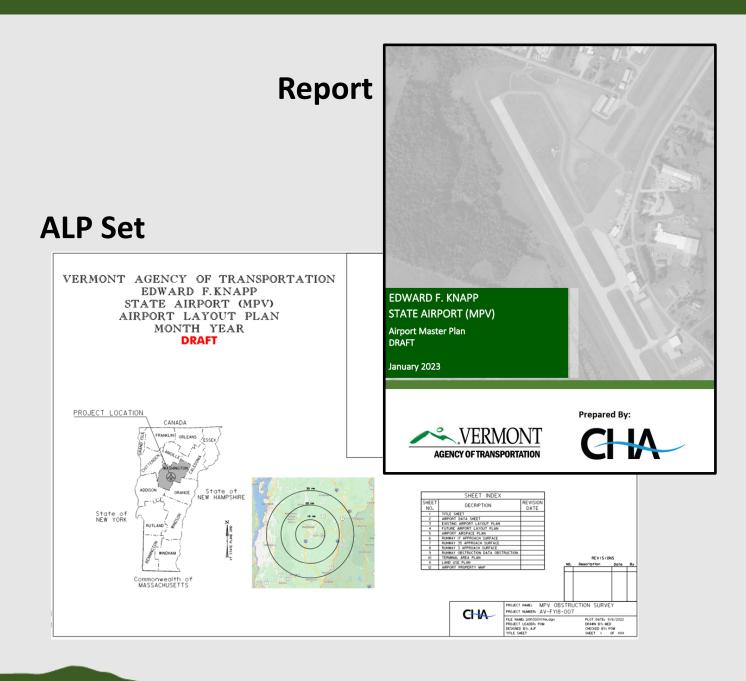
Public Outreach Activities:

- 1 Public Meeting
- 3 Technical Advisory Committee (TAC) meeting

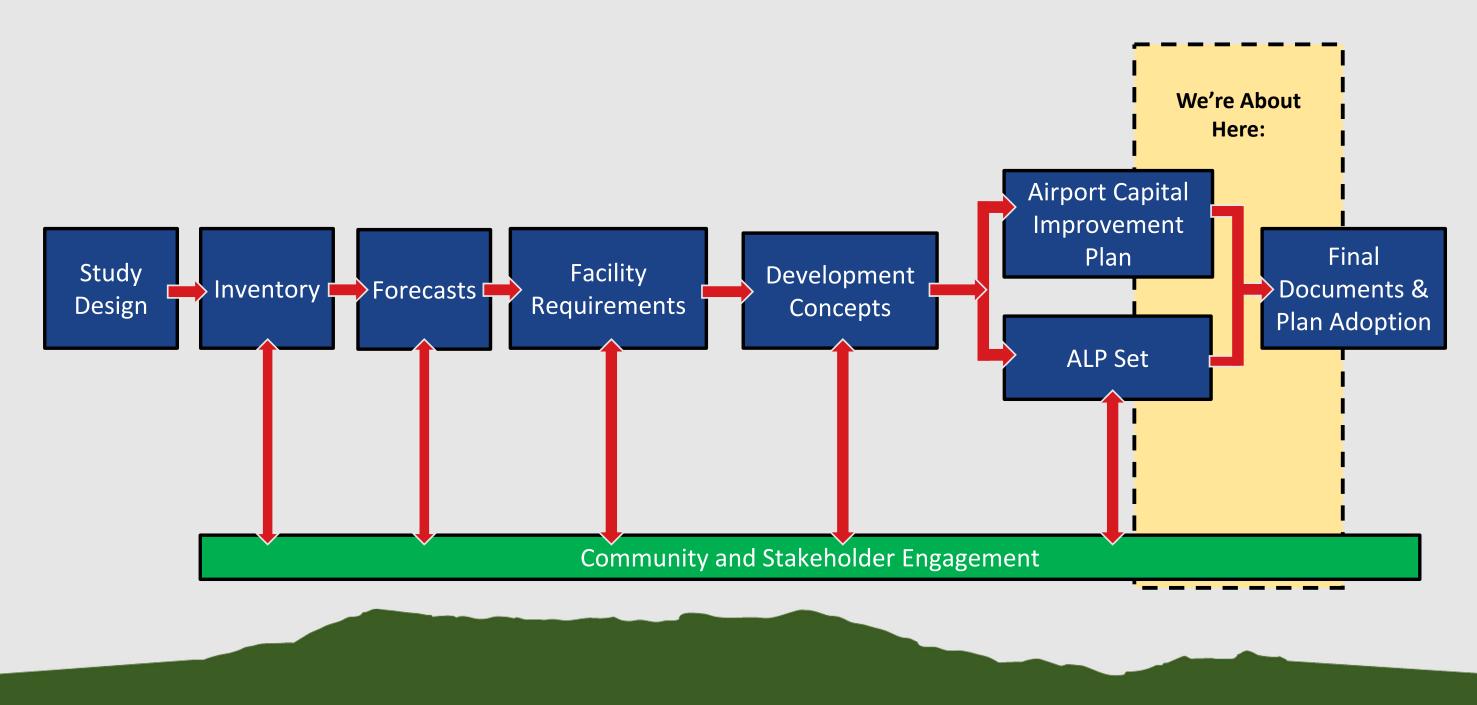


What is an Airport Master Plan

- A study that guides short and long-term **Airport Improvements**
- Two Parts:
 - Master Plan Report
 - Airport Layout Plan (ALP) (Drawing Set)
- Goal is to determine foreseeable aviation demand and customer needs
- Helps to program state and federal funding
- Usually updated every 10 years
- Last Full Master Plan/ALP completed in 2000



Airport Master Planning Process



Airport Master Plan – Focus Areas

- Industry Trends & Changes Since Previous ALP
- Follow up to the Vermont Aviation System Plan (VASP)
- Specific Focus Areas:
 - Airfield Needs & FAA Design Standards
 - Airspace Obstruction Considerations
 - Potential for Instrument Approach Procedures
 - Hangar/Terminal Development Concepts
 - Financial Considerations / Costs





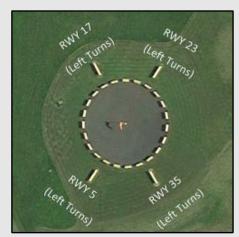
Review of Study Findings



Key Airport Features

- Approximately 259 acres
- Runway System
 - Runway 17-35: 5,000' by 100'
 - Runway 5-23: 3,001' by 75'
 - Instrument Landing System (ILS) with **MALSR**
- Two Parallel Taxiways (1 full, 1 partial)
 - **Five Taxiway Connectors**
- 43 Based Aircraft
- VTrans Offices and Hangar Space
- Hangars and Parking Aprons
- Vermont Flying Service Fixed Base Operator (FBO)







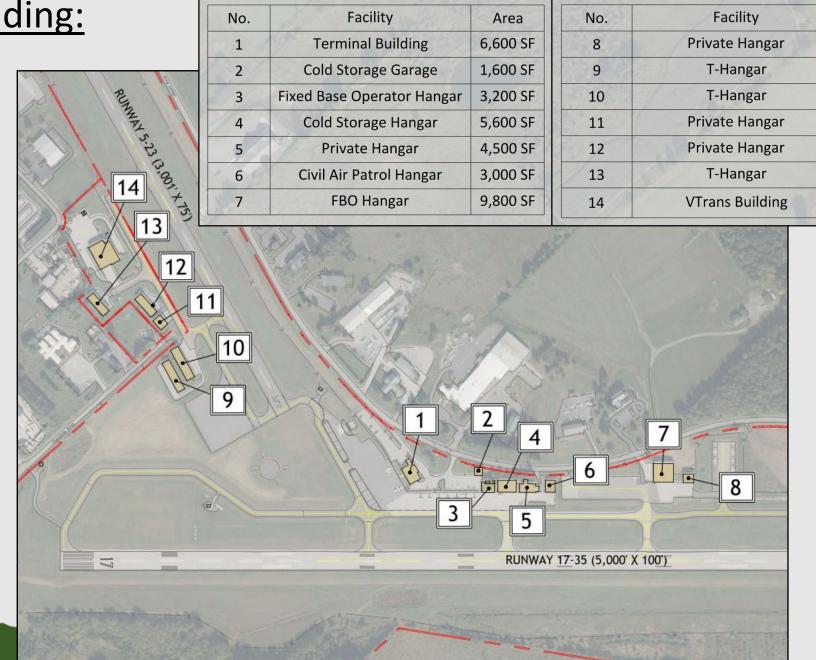


Aprons (Top), Segmented Circle (Left), Beacon (Middle), Runway 17-35 (Right)

Existing Facilities

14 Buildings and Structures Total, including:

- Main Airport Terminal Building
 - Presently leased to a private firm
- 11 Aircraft Hangars
- Aircraft Tie-Downs
- Rotating Beacon
- Fuel Farm/ Aircraft Refueling
- Segmented Circle
- Vehicle Parking Spaces
- Refueling station (100-LL and Jet A)
- VTrans Building (Office and Hangar)
- Five Airport Aprons



Area

2,300 SF

6,900 SF

7,700 SF

2,900 SF

5,100 SF

5,000 SF

13,500 SF

Airfield Improvements





- Most recent major improvements were undertaken in 2010:
 - Funded by a \$6.2M Stimulus Grant
 - Constructed a full parallel taxiway for the runway
 - Reconstructed Runway 5-23
 - Expanded the terminal apron
 - Improved runways, safety areas, hazard beacons, and snow removal processes

Airport Reference Code

- FAA system to classify airports
- Based on Approach Speed & Wingspan
 - Aircraft Approach Category (AAC)
 - Airplane Design Group (ADG)
- Dictates dimensional requirements of the airfield
- MPV is projected to be categorized as **ARC B-II**
 - Regular/ consistent activity from B-II aircraft
 - Unlikely to increase to ARC C-II given baseline year data
 - Runway 17-35 **RDC B-II**
 - Runway 5-23 **RDC B-I Small**

Approach Category							
	Airspeed (knots)						
Α	< 91						
В	91 ≤ 121						
С	121 ≤ 141						
D	141 ≤ 166						
E	166+						

I	Design Group					
Wingspan (feet)						
ı	< 49					
Ш	49 ≤ 79					
III	79 ≤ 118					
IV	118 ≤ 171					
V	171 ≤ 214					
VI	214 ≤ 262					





Forecasts of Aviation Demand

Forecasting Process

Review of
Based Aircraft
& Airport
Operations

Application of Forecasting Methodologies

Comparisons
with FAA's
Terminal
Area
Forecast

Selection of Recommended Forecasts

FAA Review/ Approval

TAF Based Aircraft & Airport Operations

- FAA Terminal Area Forecast (TAF)
 - Annual based aircraft & airport operations report issued by the FAA
 - Forecasted numbers often remain static (i.e., no growth) for non-commercial airports
- Justification must be Document if Airport Master Plan Operations Forecast Exceeds the TAF by:
 - 10% within 5-years
 - 15% within 10-years

Base Year Actual

E.F. Knapp State Airport // A

MPV TAF (2020)

Year	Based Aircraft	Airport Operations
2010	54	23,125
2011	54	23,125
2012	53	23,125
2013	53	23,125
2014	53	23,125
2015	54	23,125
2016	53	23,125
2017	51	23,125
2018	51	10,000
2019	43	9,800
2020	43	9,800
TAF Projecte	d	
2021	43	9,800
2026	43	9,800
2031	43	9,800
2036	43	9,800
2041	43	9,800

*Excludes military operations

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MPV Master Plan Forecasts

Recommended Forecasts

Based Aircraft

 Recommended Household Income forecast projects 12 additional aircraft by 2041

Based Aircraft

Year	Recommended Forecast
2020	43
2021	44
2026	46
2031	49
2036	52
2041	55

Airport Operations

- Recommended OPBA forecast projects modest growth by approximately 1,880 additional operations
- Does not exceed TAF parameters

Airport Operations

Year	MPV TAF	Recommended Forecast	Recommended Forecast vs. FAA TAF
2020	9,800	9,800	0.0%
2021	9,800	9,882	1%
2026	9,800	10,304	5% (10% max)
2031	9,800	10,745	10% (15% max)
2036	9,800	11,203	14%
2041	9,800	11,682	19%

Critical Aircraft Determination

- Critical Aircraft
 - Type or family of aircraft with 500 or more annual operations at the airport
- Most Aircraft Activity at MPV is from ARC B-I Aircraft with Consistent Activity from A-I thru C-II Aircraft
- ARC B-II was Retained as the sample Critical Aircraft* - Samples: Citation CJ2, EMB 110
 - Runway 17-35 RDC B-II
 - Runway 5-23 RDC B-I Small





Recorded Flight Plans: Figures

Aircraft Design Type	2011-2020
A-I	4194
A-II	510
B-I	5896
B-II	1882
Grand Total	12,482

Recorded Flight Plans: Percentages

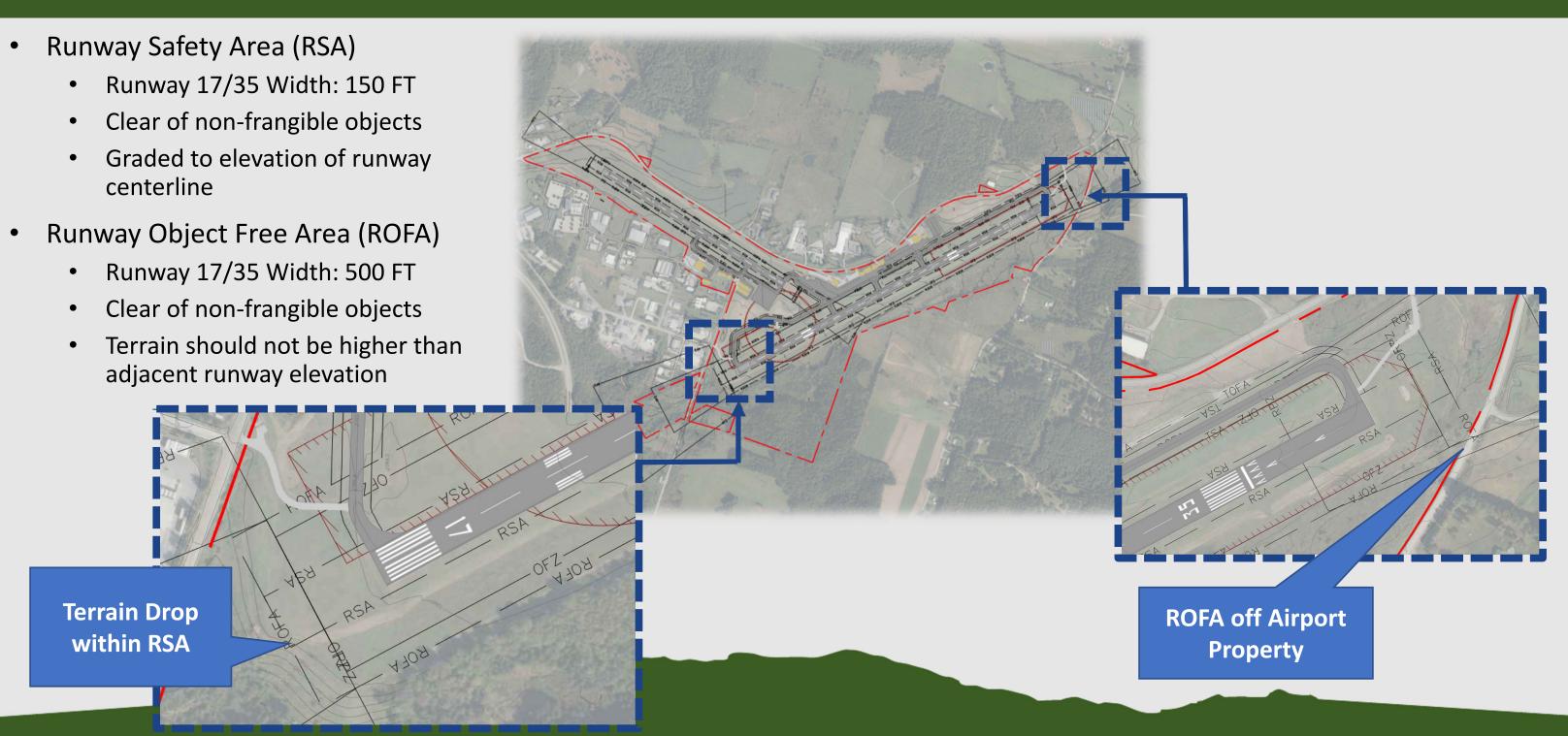
Aircraft Design Type	2011-2020
A-I	30.8%
A-II	3.7%
B-I	42.5%
B-II	13.6%

^{*} Based on data projections

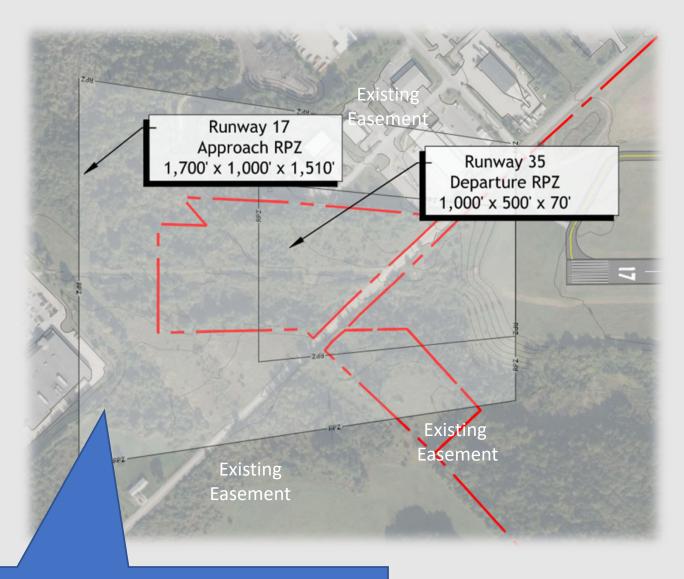
Airport Facility Requirements



Runway Safety Evaluation



Runway Protection Zone (Avigation Easements)

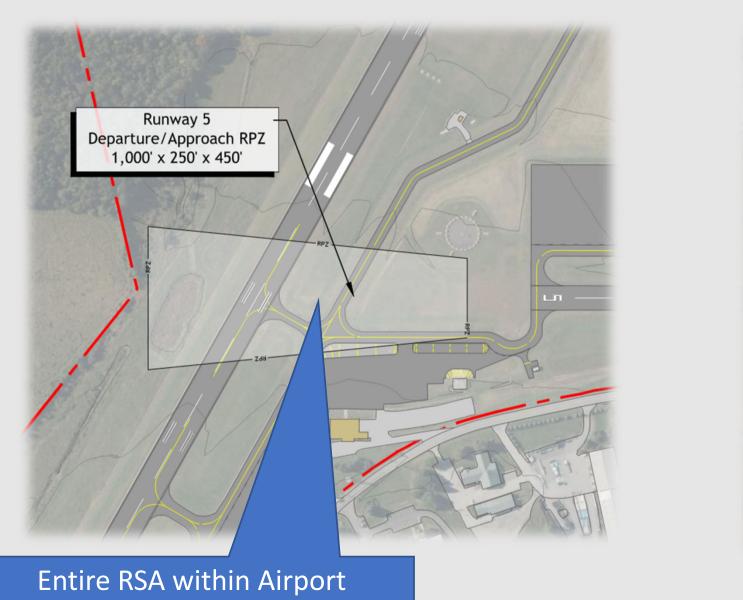


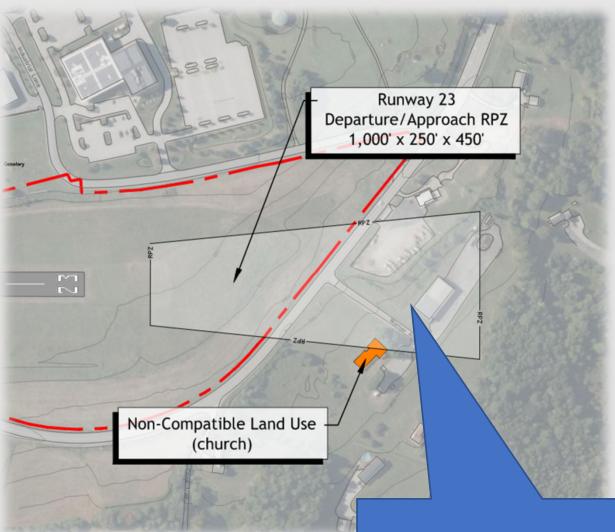
Runway 17 Departure RPZ 1,000' x 500' x 700' Runway 35 Approach RPZ 1,000' x 500' x 700'

Recommended Easements RPZ located off-airport property

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Runway Protection Zone (Avigation Easements)



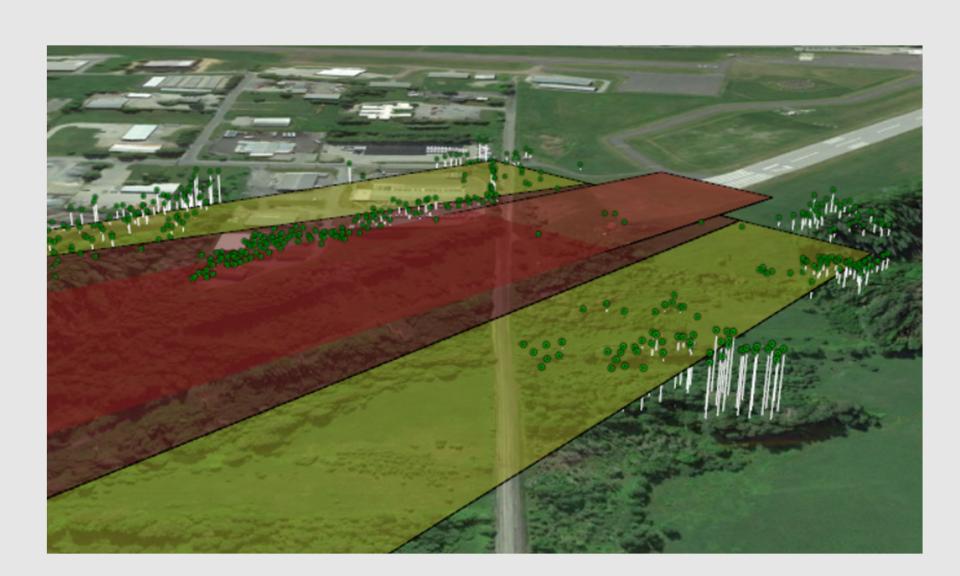


Existing Easements on Off-Airport Property Portion of RSA

Property

Obstruction Evaluation & Removal (Trees)

- Obstruction Study identified numerous airspace penetrations:
 - Runways 17, 35 & 23
- Environmental Assessment (EA) was completed & approved
- Short-term Tree Removal Project in progress
- Most remaining obstruction are located off-airport, and will require easements



Obstruction Evaluation & Removal (Trees)





Airport Facility Requirements Summary

Runways:

- Address nonstandard conditions (RSA, ROFA, RPZ)
- Rehabilitate 17-35
- Install Runway 35 PAPI
- Tree Obstruction Removal

Taxiways:

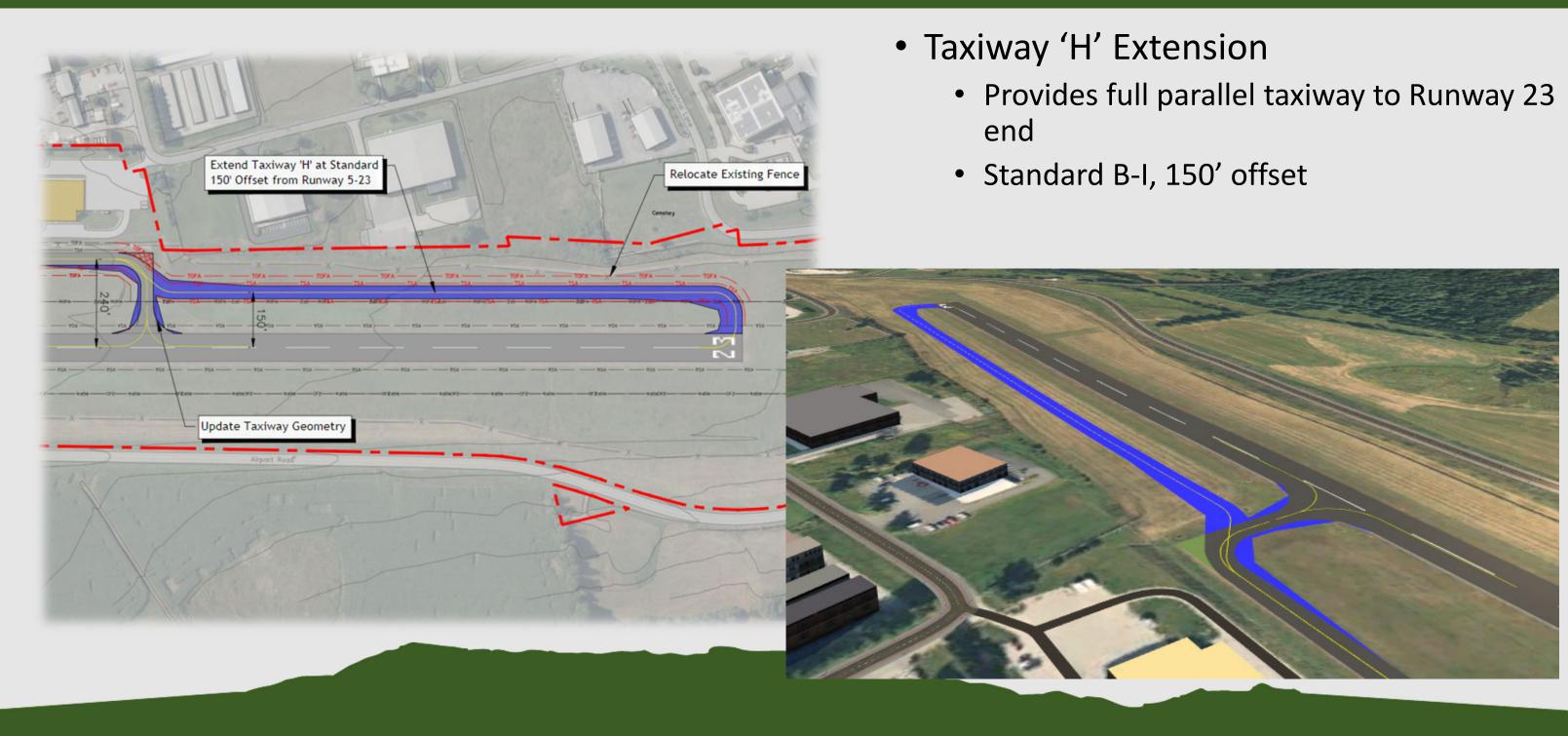
- Address nonstandard conditions (TSA, TOFA, etc.)
- Realign portion of Taxiway "A"
- Extend Taxiway "H" to full parallel
- Pavement rehabilitation as needed

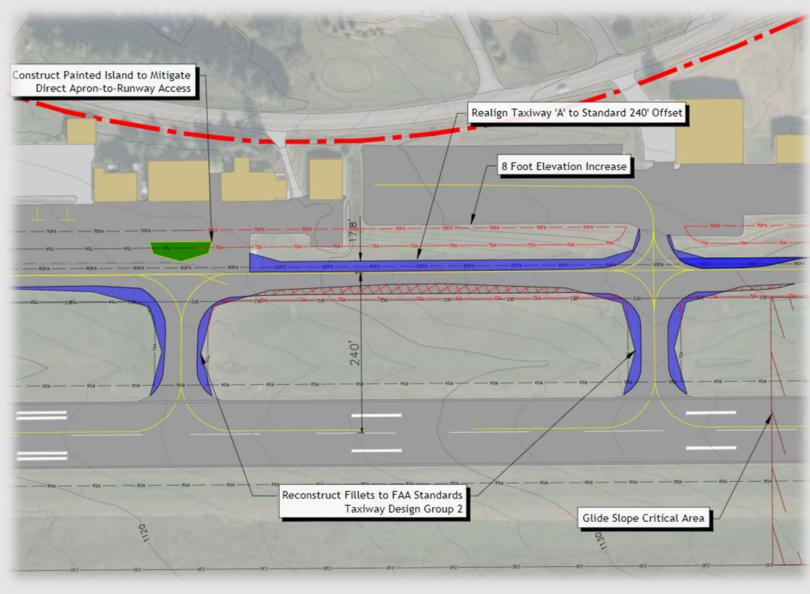
Hangars/Aprons:

- Construct Additional Hangars (i.e., permitting)
- Apron Rehabilitation

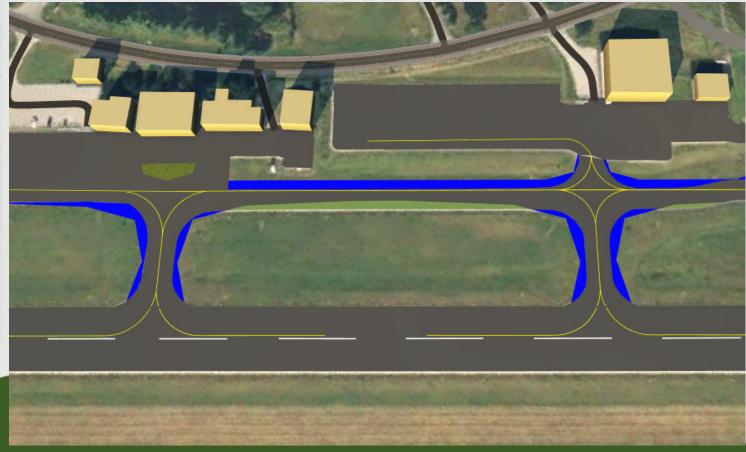
Development Concepts







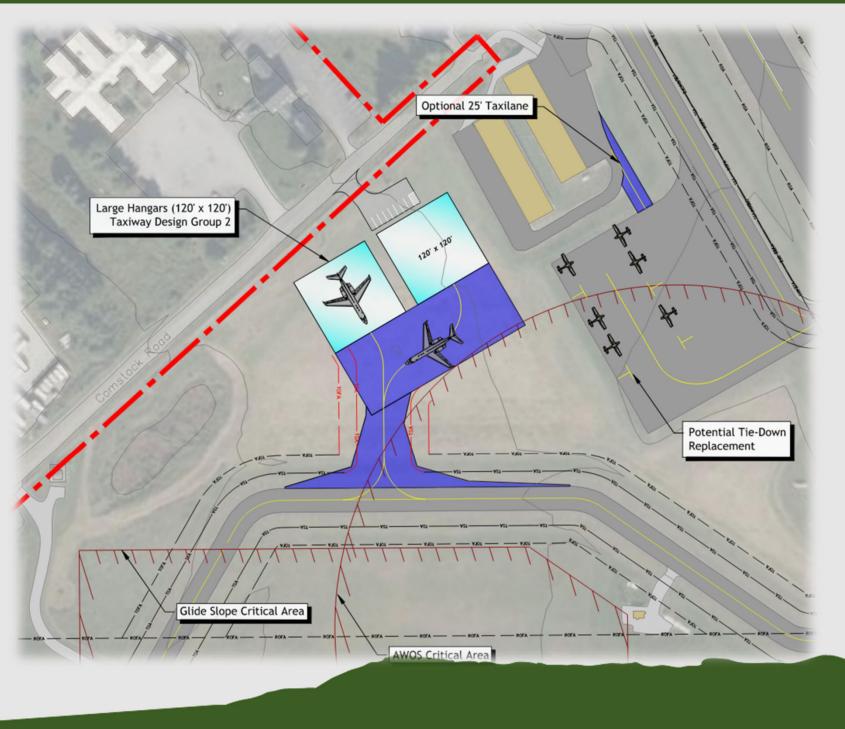
- Taxiway 'A' Realignment
 - Shift Taxiway 'A' 15 feet towards the east to standard offset of 240 feet
 - Include Painted island to mitigate direct apron-to-runway access



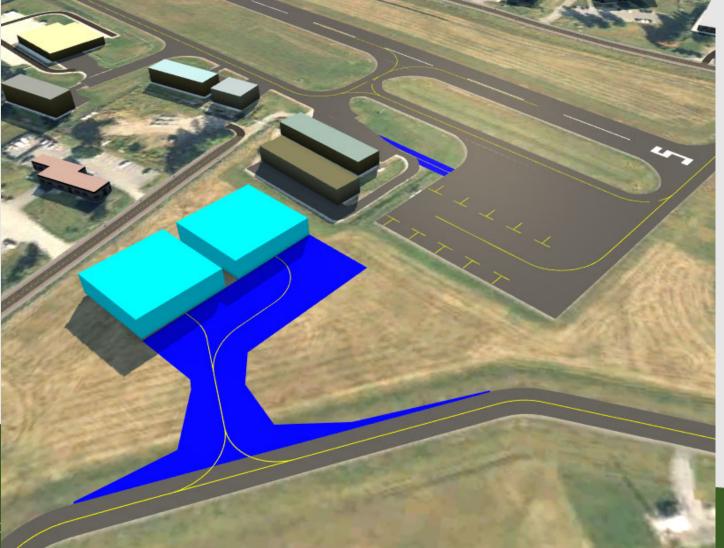
Potential Hangar Concepts

- VTRANS Hangar Permitting VTrans is advancing an effort to "pre-permit" hangar sites to streamline private hangar development
- At MPV, the master plan is reviewing a few locations, which will be included on the Airport Layout Plan (ALP)



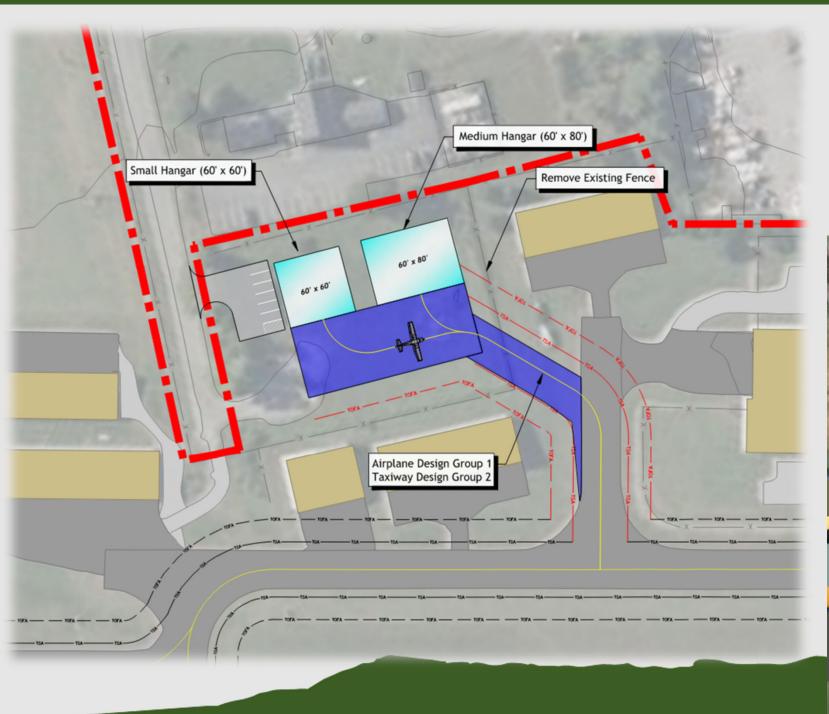


- North Development Site 1
 - Provides additional hangar for corporate GA aircraft
 - Provides Tie-down parking on underutilized Jet Ramp



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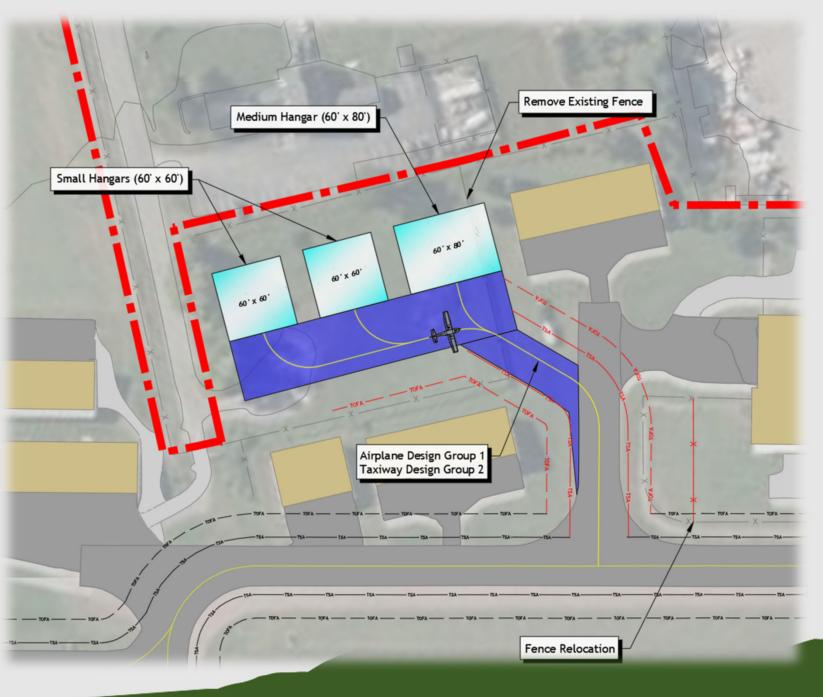


- North Development Site 2
 - Provides additional hangar for corporate and small GA aircraft
 - Provides vehicle access and parking off Comstock Rd.



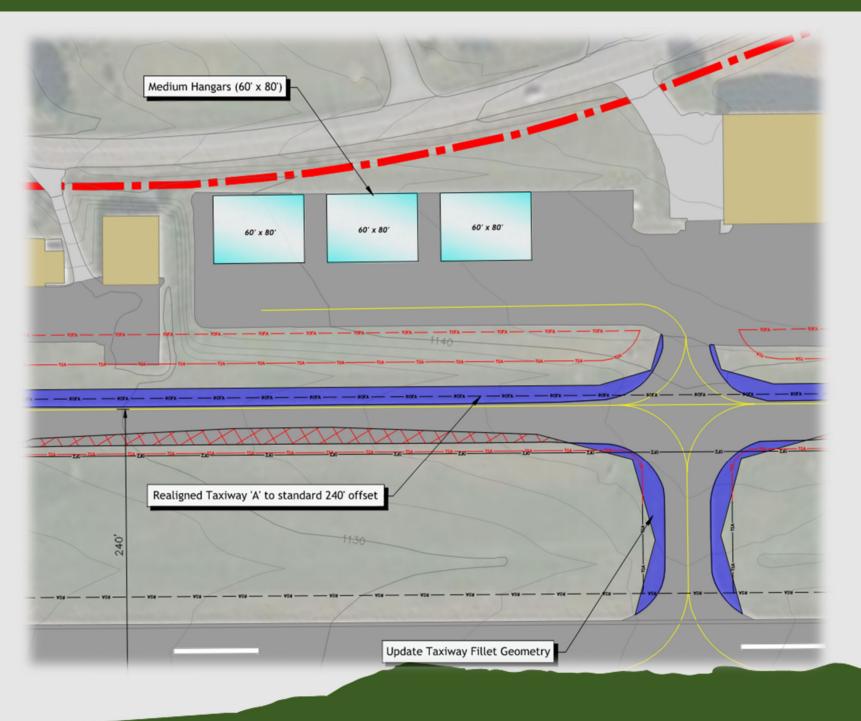
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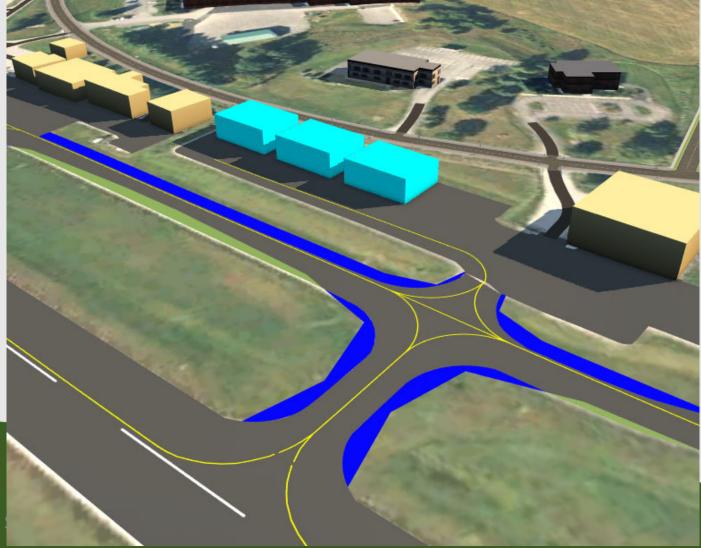


- North Development Site 2
 - Provides additional hangar for corporate and small GA aircraft
 - Accessed via Gate near VTrans Building #14



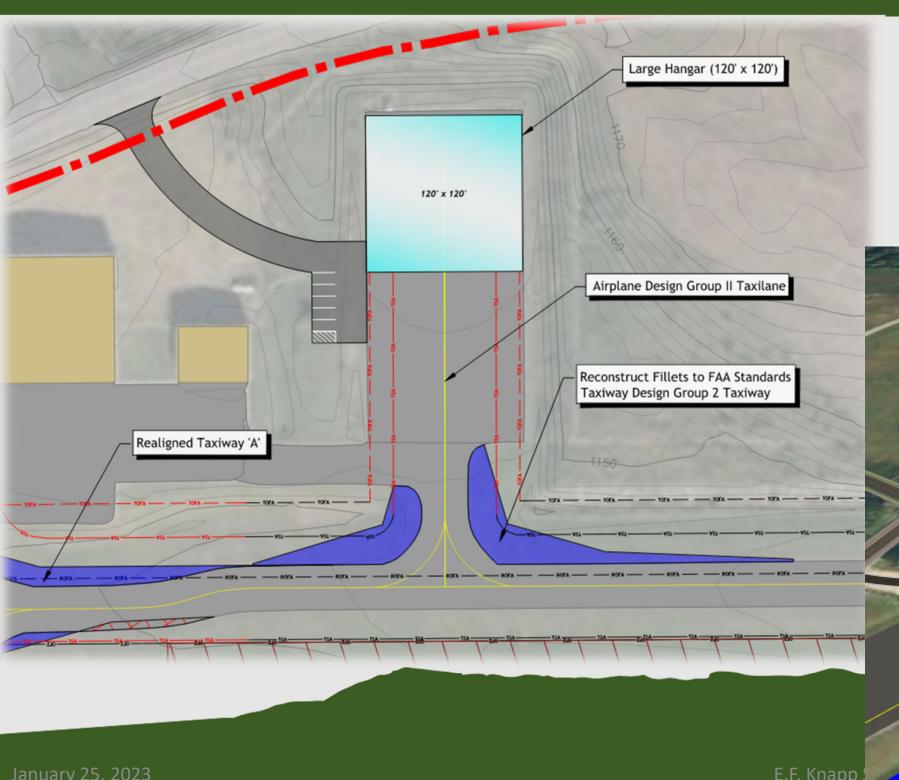


- Upper Ramp Development Area
 - Provides additional hangar for corporate and small GA aircraft



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- Tie-Down Ramp Development Area
 - Provides additional hangar for corporate GA aircraft
 - Provides vehicle access and parking off Airport Road



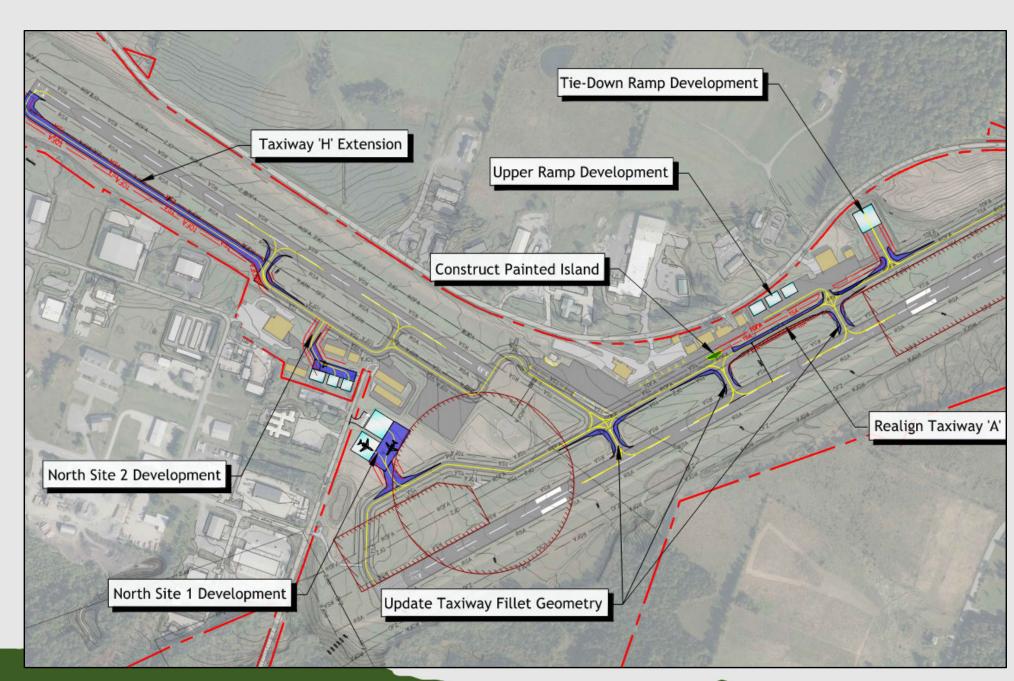


- Terminal Building Improvements
 - Rehabilitate Building
 - Area for flight planning & public facilities
 - Additional area for lease



Draft Recommended Plan

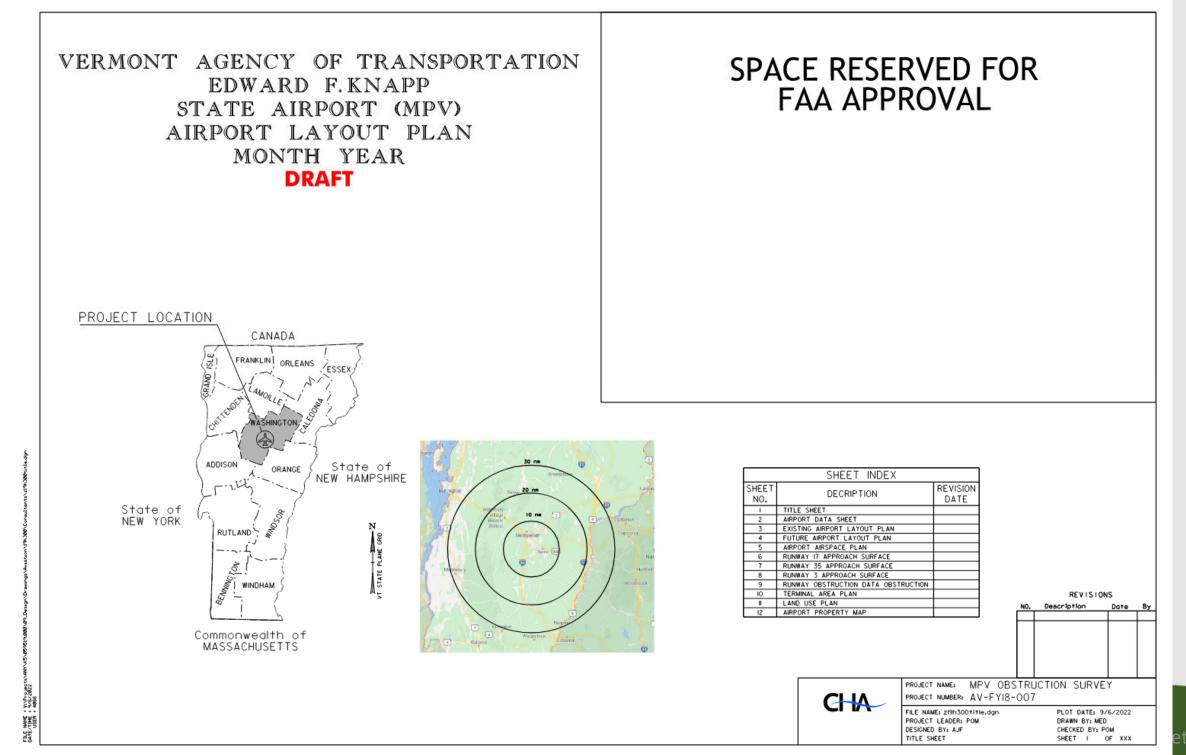
- Airfield Design Standard Upgrades
- Avigation Easements
- RPZ Acquisition
- Tree Clearing
- Taxiway "H" Extension
- Taxiway "A" Realignment
- North Hangar Development
- South Hangar Development
- Terminal Building Renovations
- Airfield Pavement Maintenance



Airport Capital Improvement Plan (ACIP)

				I (ann)		VTrans
Project Short Town (O. E. Voors)		Estimated	Feder	al (90%)		(10%)
Short-Term (0 - 5 Years)	\$	250,000	ć	225,000	ć	25,000
Environmental Assessment (Short-Term Projects)	٥	200,000		180,000		- 1
Avigation Easement Acquisition Obstruction Removal	ې ا	370,000	-	315,000		20,000 55,000
	\$	300,000		270,000		30,000
Runway 17-35 Rehabilitation (PE & Permits)	ې ا	3,000,000		2,700,000		300,000
Runway 17-35 Rehabilitation (Final Design & Construction)	\$	450,000		405,000		45,000
Hangar Development Areas	ې خ	350,000		315,000		· I
Apron Rehabilitation (assumed FBO - Dark Green & Tiedown - Salmon) Total	\$	4,920,000	-	4,410,000		35,000 510,000
Long-Term (5 - 20 Years)	\$	4,920,000	7	4,410,000	Ÿ	310,000
1 - Taxiway 'H' Extension	\$	4,790,000	Ś	4,311,000	Ś	479,000
2 - Corporate Hangar Development (North Site #1)	~			ly Funded	Ý	475,000
3 - Small Hangar Development (North Site #2)				ly Funded		
4 - Upper Ramp Hangar Development						
5 - Tie-Down Ramp Hangar Development	Privately Funded Privately Funded					
6 - Install Runway 35 PAPI (4-Box)	\$	380,000		342,000	Ġ	38,000
7 - Runway Obstruction Removal (Runway 5 end - Easements & EA)	\$	360,000		324,000		36,000
8 - Taxiway A - Magenta - 216,000SF (Mill & Overlay)	\$	2,070,000	-	1,863,000		207,000
a - Taxiway Geometry Update - New Pavement - 7,000SF	\$	590,000	-	531,000		59,000
9 - Taxiway 'A' Realignment	\$	1,970,000		1,773,000		197,000
10 - Runway 5-23 - Cyan - 235,000SF (Mill & Overlay)	\$	2,950,000		2,655,000		295,000
11 - Taxiway G & H - Purple - 52,000SF (Mill & Overlay)	Ś	650,000		585,000		65,000
12 - Taxiway E & Terminal Apron - Yellow - 120,000 SF (Mill & Overlay)	\$	1,170,000		1,053,000		117,000
a - Taxiway Geometry Update - New Pavement - 9,000SF	\$	730,000		657,000		73,000
13 - Taxiway F & Jet Apron - Green - 96,000SF	\$	1,050,000		945,000		105,000
14 - Taxiway C Apron - Blue - 19,000 SF (Full Depth)	\$	420,000		378,000		42,000
15 - Upper Apron (if hangar development is not pursued) - Gold - 52,000SF	\$	930,000		837,000		93,000
16 - Replace AWOS	\$	380,000	\$	342,000		38,000
Total	\$	18,440,000		16,596,000		1,844,000
Grand Total	\$	23,360,000		006,000		2,354,000

Draft Airport Layout Plan — Title Sheet

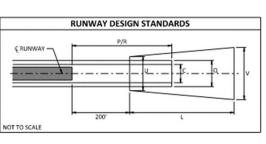


Draft Airport Layout Plan – Data Sheet

AIRPORT	DATA			
EF KNAPP STAT North Clarendo 1979 Airpo Barre, VT	n, VT 05759 rt Road			
ITEM	Existing	Future		
AIRPORT OWNER	Vermont Agency	of Transportation		
STATE SERVICE LEVEL	National Service Airport 1			
NPIAS SERVICE LEVEL	National/Regional Airport *			
AIRPORT REFERENCE CODE / CRITICAL AIRCRAFT	ARC B-II/ Cessna Citation II	ARC B-II/ Cessna Citation II		
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH	81.3° F (July)			
AIRPORT ELEVATION (MSL) NAVD 88	1,16	6 FT		
MAGNETIC DECLINATION	14" 8' W ± 0" 23' chang	ring by 0° 5' E per year		
AIRPORT REFERENCE POINT (NAD 83)	LAT: 44" 12" 12.56" N LONG: 72" 33" 43.55" W	LAT: 44" 12' 12.56" N LONG: 72" 33' 43.55" W		
AIRPORT NAVIGATIONAL AIDS AND MISCELLANEOUS FACILITIES	ILS, RNAV (GPS), MALSR, REI Indicator / Sea			

Note 2: National	Plan of	Integrated	Airport	Systems	(NPIAS)

	RUNWAY	SAFETY AF	REA DATA				
RUNWAY 17-35 RUNWAY 5-23							
DESCRIPTION		EXISTING	/FUTURE	EXISTING/FUTURE			
		17	35	5	23		
	(R) LENGTH BEYOND RUNWAY END	300 FT	300 FT	240 FT	240 FT		
RUNWAY SAFETY AREA (RSA)	(P) LENGTH PRIOR TO RUNWAY END	300 FT	300 FT	240 FT	240 FT		
	(C) WIDTH	150 FT	150 FT	120 FT	120 FT		
RUNWAY OBJECT	(R) LENGTH BEYOND RUNWAY END	300 FT	300 FT	240 FT	240 FT		
FREE AREA (ROFA)	(P) LENGTH PRIOR TO RUNWAY END	300 FT	300 FT	240 FT	240 FT		
	(Q) WIDTH	500 FT	500 FT	400 FT	400 FT		
APPROACH	(L) LENGTH	1,700 FT	1,000 FT	1000 FT	1000 FT		
RUNWAY PROTECTION ZONE	(U) INNER WIDTH	1,000 FT	500 FT	500 FT	500 FT		
(RPZ)	(V) OUTER WIDTH	1,510 FT	700 FT	700 FT	700 FT		
DEPARTURE	(L) LENGTH	1,000 FT	1,000 FT	1,000 FT	1,000 FT		
RUNWAY PROTECTION ZONE	(U) INNER WIDTH	500 FT	500 FT	500 FT	500 FT		
(RPZ)	(V) OUTER WIDTH	700 FT	700 FT	700 FT	700 FT		
RUNWAY OBSTACLE FREE ZONE (ROFZ)	LENGTH BEYOND RUNWAY END	200 FT	200 FT	200 FT	200 FT		
PREE ZONE (NOFZ)	WIOTH	400 FT	400 FT	120 FT	120 FT		
PRECISION OBSTACLE FREE ZONE (POF2)	LENGTH BEYOND RUNWAY END	200 FT	N/A	N/A	N/A		
PREE ZONE (POPZ)	WIDTH	800 FT	N/A	N/A	N/A		



RUNWAY DATA										
			RUNWAY 17-	35			RUNWAY	5-23		
DESC	DESCRIPTION		TING	FUTURE		EXISTING		FUTURE		
		17	35	17	35	5	23	5	23	
RUNWAY LENGTH		5,00	00 FT			3,00	1FT			
RUNWAY WIDTH		10	0 FT			75	FT]		
PAVEMENT TYPE / SURFACE	TYPE	ASP	HALT			ASPHALT		1		
PAVEMENT CONDITION		GC	000			GC	000]		
PAVEMENT CONDITION NUM	MBER		74			9	93]		
PAVEMENT STRENGTH (SINC	ilt)	31,0	00 lbs			30,0	00 lbs]		
PAVEMENT STRENGTH (DUA	L)	70,0	00 lbs			46,0	00 lbs]		
EFFECTIVE RUNWAY GRADIE	NT	1.	5%			1.	0%]		
MAXIMUM RUNWAY GRADI	ENT	1.	5%			1	0%]		
RUNWAY MEETS LINE OF SK	SHT REQUIREMENTS? (YES/NO	Y	es			Y	es]		
APPROACH TYPE		PRECISION	NON-PRECISION			VISUAL	VISUAL]		
APPROACH VISIBILITY MININ	KUM	3/4 MILE	1 MILE			N/A	N/A]		
RUNWAY CATEGORY (14 CFF	R PART 77) / SLOPE	PRECISON / 50:1	NON-PRECISION / 34:1			VISUAL / 20:1	VISUAL / 20:1]		
DESIGN AIRCRAFT		CESSNA CIT	ATION JET II			CESSNA 421]		
RUNWAY DESIGN CODE (RD	()	E	H			8-1]		
APPROACH RUNWAY REFER	ENCE CODE (APRC)	B/II/4000	B/II/5000			8 / I(S) / VIS	B / I(S) / VIS			
DEPARTURE RUNWAY SURFA	ACE	YES	YES			NO NO		}		
OBSTACLE CLEARANCE SURF	ACE (EB 99A TABLE 3-2)	SEE OC	DCS TABLE			SEE OCS TABLE				
TOUCHDOWN ZONE ELEVAT	ION	1,135.6 FT	1,158.4 FT	SAME AS EXISTING		1,191.8 FT	1,191.8 FT	SAME	S EXISTING	
HORIZONTAL / VERTICAL DA	TUM	NAD 83	NAD 83			NAD 83	NAD 83	Jane 7	5 00511145	
AERONAUTICAL SURVEY		VGS	VGS			NVGS	NVGS			
RUNWAY MARKINGS		PRECISION	NON-PRECISION			BASIC BASIC		1		
RUNWAY LIGHTING		M	IRL			M	MIRL			
APPROACH LIGHTING		MALSR	PAPI-4]		NONE	NONE	ı		
INSTRUMENT & NAVIGATION	NAL AIDS	ILS/ DME, RNAV (GPS)	RNAV (GPS)			NONE	NONE]		
	LATITUDE	N/A	44° 11' 44.72" N			N/A	N/A	1		
COORDINATES &	LONGITUDE	N/A	72" 33" 34.72" N			N/A	N/A	1		
ELEVATIONS	DISTANCE	N/A	502 FT			N/A	N/A]		
	ELEVATION	N/A	1,158 FT			N/A	N/A	l		
RUNWAY END	LATITUDE	44" 12" 23.82" N	3.82"N 44"11'40.35"N 44' 12' 17.50* N 44'		44" 12" 42.52" N					
COORDINATES &	LONGITUDE	72° 34° 04.01° W	73° 33' 31.46" W			72" 33' 47.60" W	72" 33' 25.54" W	1		
ELEVATIONS	ELEVATION	1,091.5 FT	1,165.6 FT			1,115.5 FT	1,084.7 FT	I		
	TORA	N/A	N/A			N/A	N/A	I		
	TODA	N/A	N/A			N/A	N/A			
DECLARED DISTANCES	ASDA	N/A	N/A			N/A	N/A	I		
DESCRIPTION OF THE PROCES	LDA	N/A	N/A			N/A	N/A	I		
	CLEARWAY	N/A	N/A	l		N/A	N/A	1		
	STOPWAY	N/A	N/A			N/A	N/A			

EXIS	TING/FU	TURE O	BSTACLE	CLEARA	NCE SUF	RFACES (OCS)
RUNWAY	ROW/TYPE	SLOPE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
	4	20:1	200 FT	400 FT	3,400 FT	10,000 FT	0 FT
17	- 6	30:1	0 FT	300 FT	1,520 FT	10,000 FT	OFT
	7	40:1	450 FT	470 FT	7,512 FT	12,152 FT	6,160 FT
35	4	20:1	200 FT	400 FT	3,400 FT	10,000 FT	OFT
35	7	40:1	450 FT	470 FT	7,512 FT	12,152 FT	6,160 FT
-	2	20:1	0 FT	250 FT	700 FT	2,250 FT	2,750 FT
5	4	20:1	200 FT	400 FT	3,400 FT	10,000 FT	0 FT
23	2	20:1	0 FT	250 FT	700 FT	2,250 FT	2,750 FT
	4	20:1	200 FT	400 FT	3,400 FT	10,000 FT	OFT

MODIFICATIONS TO FAA DESIGN STANDARDS					
APPROVAL DATE	AIRSPACE CASE NO.	MODIFIED STANDARD	DESCRIPTION		
	-				
		22.27			
	N N	DNE			

		TAXIWA	YDATA	7.1	
TAXIWAY NAME	TAXIWAY LIGHTING	TAXIWAY DESIGN GROUP	HTOW YAWKAT	TAXIWAY SAFETY AREA	TAXIWAY OBJECT FREE AREA
EXISTING/FUTURE	EXISTING/FUTURE	EXISTING/FUTURE	EXISTING/FUTURE	EXISTING/FUTURE	EXISTING/FUTURE
A	MITL	2	35 FT	79 FT	131 FT
В	MITL	2	35 FT	79 FT	131 FT
С	MITL	2	40 FT	79 FT	131 FT
D	MITL	2	50 FT	79 FT	131 FT
E	MITL	2	35 FT	79 FT	131 FT
F	MITL	2	35 FT	79 FT	131 FT
G	MITL	2	35 FT	79 FT	131 FT
н	MITL	2	35 FT	79 FT	131 FT
G H	MITL	2 2	35 FT	79 FT	131 FT

ALL	WEATHER W	IND COVER	AGE
RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS
17-35	98.66%	99.48%	99.93%
5-23	92.04%	95.38%	98.74%
COMBINED	99.32%	98.86%	99.98%

VFR	WEATHER W	VIND COVER	AGE
RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS
17-35	98.57%	99.44%	99.93%
5-23	92.06%	95.59%	99.00%
COMBINED	99.38%	99.89%	99.99%

IFR	WEATHER W	IND COVER	AGE
RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS
17-35	98.91%	99.61%	99.93%
5-23	92.07%	94.07%	98.17%
COMBINED	99.22%	99.80%	99.97%

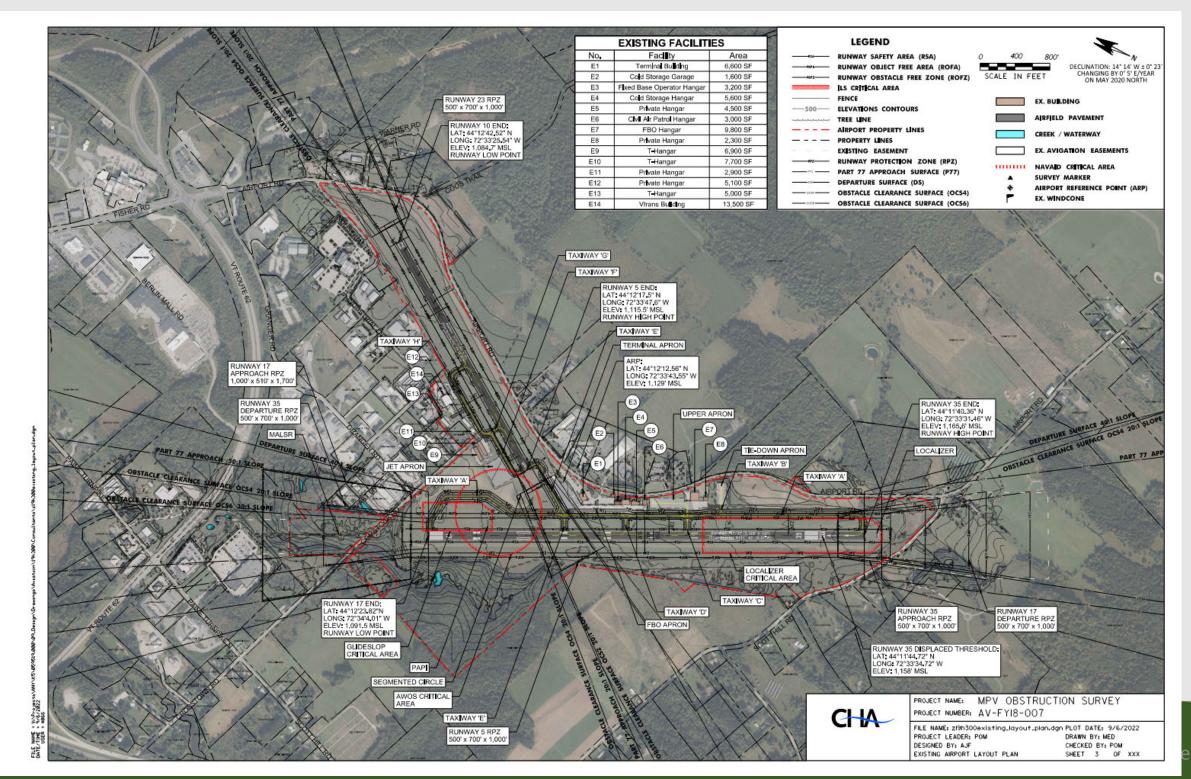
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PROJECT NAME: MPV OBSTRUCTION SURVEY PROJECT NUMBER: AV-FYI8-007

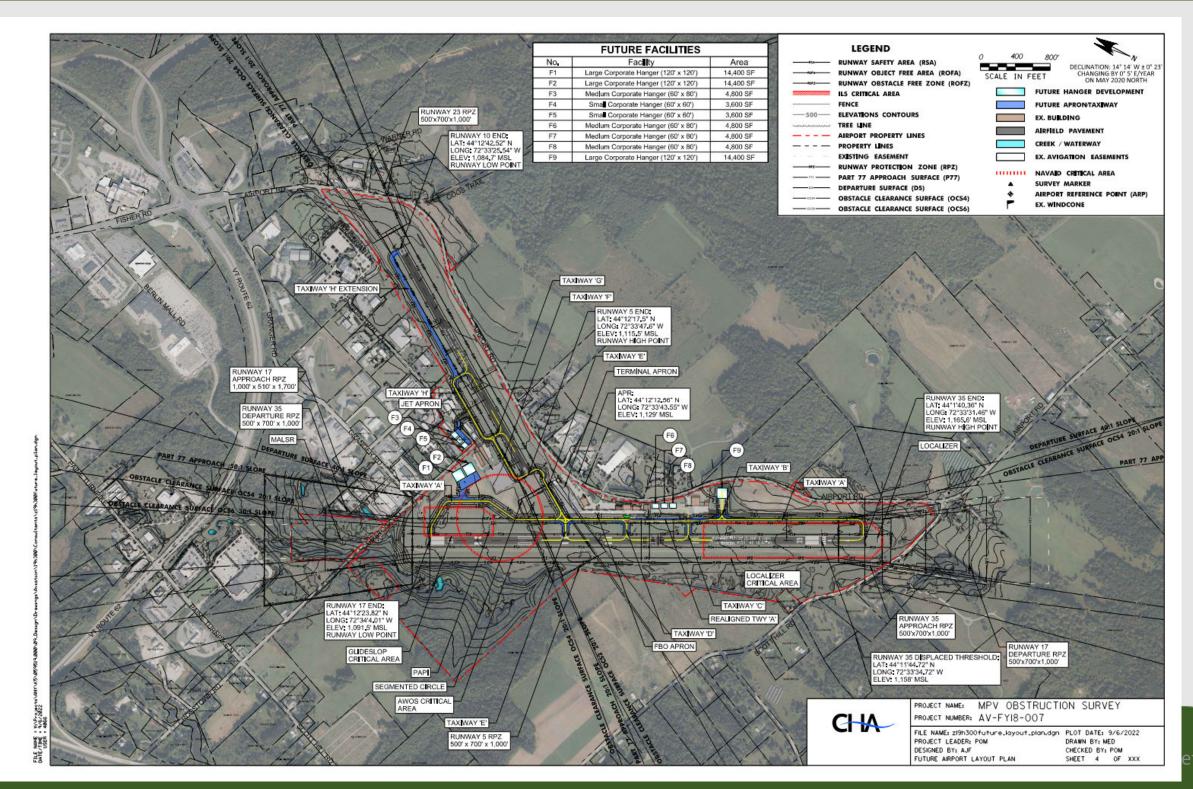
FILE NAME: zi9h300data.dgn PROJECT LEADER: POM DESIGNED BY: AJF

DRAWN BY: MED CHECKED BY: POM

Draft Airport Layout Plan – Existing Layout Sheet



Draft Airport Layout Plan – Future Layout Sheet



Next Steps

- Final Documents March 2023
- FAA Approval April/May 2023





Questions/Comments

Questions or comments regarding the Airport Master Plan?

Available for contact:

AOT.RailAviationProjectDeliveryFolders@vermont.gov
VTrans Rail & Aviation Bureau

Draft Master Plan Report available:

https://vtrans.vermont.gov/aviation/airports/knapp

