

Joseph State Airport

Airport Master Plan



Planning Advisory Committee Meeting #3
Virtual Meeting via Webex
February 25, 2021





Or Join by Phone (408) 418-9388

Access Code: 146 324 9773

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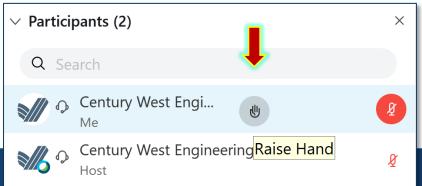














- Project Schedule
- Brief Recap
 - Forecast Demand
 - Facility Goals and Requirements
- Preliminary Development Alternatives
- Public Comments
- Next Steps



Image: Century West Engineering



Oregon Department of Aviation (ODA)





Betty Stansbury

Director

Betty.Stansbury@aviation.state.or.us

Tony Beach

Deputy Director, State Airports Manager

Anthony.Beach@aviation.state.or.us

John Wilson

Operations Specialist

John.p.Wilson@aviation.state.or.us

Heather Peck

Planning & Project Manager

Heather.Peck@aviation.state.or.us

Sarah Lucas

Aviation Planner

Sarah.Lucas@aviation.state.or.us

Seth Thompson

Aviation Planner

Seth.Thompson@aviation.state.or.us



Century West Engineering (CWE)



Matt Rogers

Project Manager

wrogers@centurywest.com

David Miller

Lead Aviation Planner

dmiller@centurywest.com

Samantha Peterson

Aviation Planner

speterson@centurywest.com



OREGON DEPARTMENT OF AVIATION JOSEPH STATE AIRPORT (JSY)

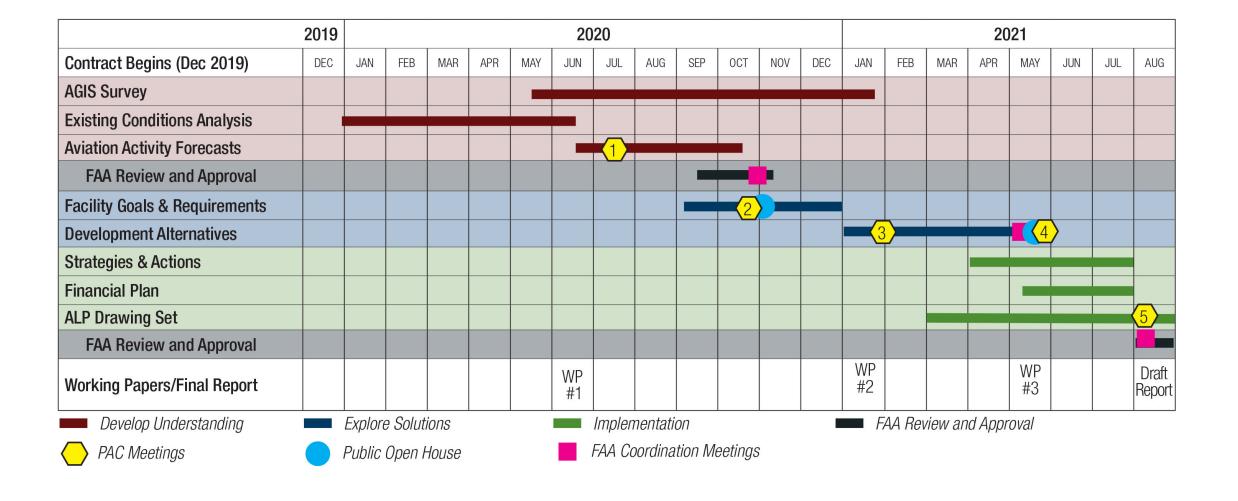


Name	Title	Organization	
Adam Stein	Self	Airport Tenant	
Ken Good	Self	Airport Tenant	
Wup (Derek) Winn	Airport Maintenance	Back Country Connection / ODA Maintenance	
Ashley Sullivan	Mayor	City of Enterprise	
Belinda Buswell	Mayor	City of Joseph	
Catherine Dickson	Archaeologist	Confederated Tribes of the Umatilla Indian Reservation	
Austin Greene	Tribal Chairman	Confederated Tribes of the Warm Springs Reservation of Oregon	
Toby Koehn	CTE Instructor, Retired	Joseph Charter School	
lan Goodrich	Co-Student Representative Joseph Charter School		
Storm Lynch	Co-Student Representative	Joseph Charter School	
Peter Benjamin	Region 2 Customer Service Mgr	Life Flight Network	

Name	Title	Organization	
Rich Frasch	Self	Airport Tenant	
Shannon Wheeler	Tribal Chairman	Nez Perce Tribe	
John Wilson	Airport Operations	Oregon Department of Aviation	
Patrick Wingard	Regional Representative	Oregon Dept. of Land Conservation & Development	
Jessica Keys	Field Representative	Senator Jeff Merkley	
Kathleen Cathey	Field Representative	Senator Ron Wyden	
Miles Hancock	Aviation Unit Manager	US Forest Service	
Franz Goebel	Planning Director	Wallowa County	
John Hillock	Commissioner	Wallowa County	
Jennifer Piper	Executive Director	Wallowa County Chamber of Commerce	
Larry Davy	CEO	Wallowa Memorial Hospital	









Develop Understanding

Explore Solutions

Implementation

Regional Setting

Location & Vicinity
Socio-Economic Data
Airport Role
Airport History
Area Airports Context
Airport Operations
Relevant Studies
Environmental Data
Local Surface
Transportation
Land Use/Zoning

Airside Elements

Instrument Flight
Procedures
Runway/Helipad
Taxiways/Taxilanes
Aprons/Tiedowns
Pavement Condition
Airside Support
Facilities

Area Airspace

Landside Elements

Terminal Building
Hangars
Airport Fencing
Airport Surface Roads
Vehicle Parking
Utilities
Airpor
Charge
Local
Regula

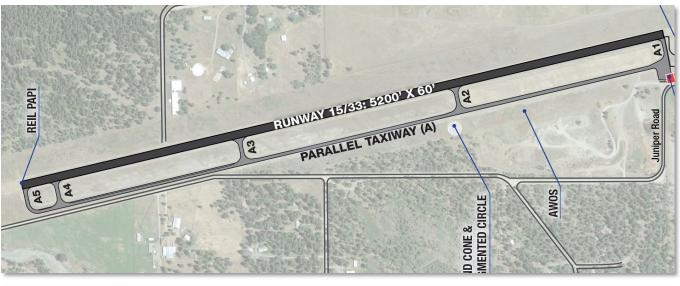
Airport Administration

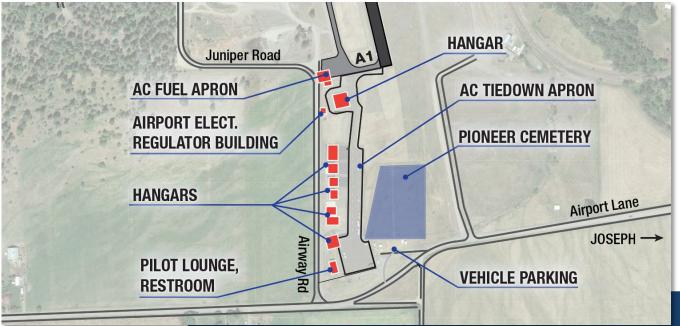
Airport Ownership &
Management
Airport Financials
Airport Rates and
Charges
Local Rules &
Regulations
Oregon Aviation Laws
FAA Compliance
Overview













Known Issues & Opportunities





- Limited Airport Land Area (Landside Facilities)
- Airport Instrumentation
- Local Environmental Considerations
- Parallel Taxiway Operational Limits
- Alternate Landing Area (ALA), also known as Alternate Operating Area (AOA) - between runway and parallel taxiway





Located Between Taxiways A1 and A2, Runway and Parallel Taxiway

The turf area is used by tailwheel aircraft and other aircraft capable of operating on unimproved surfaces. Not a designated runway area, pilots use at own risk.

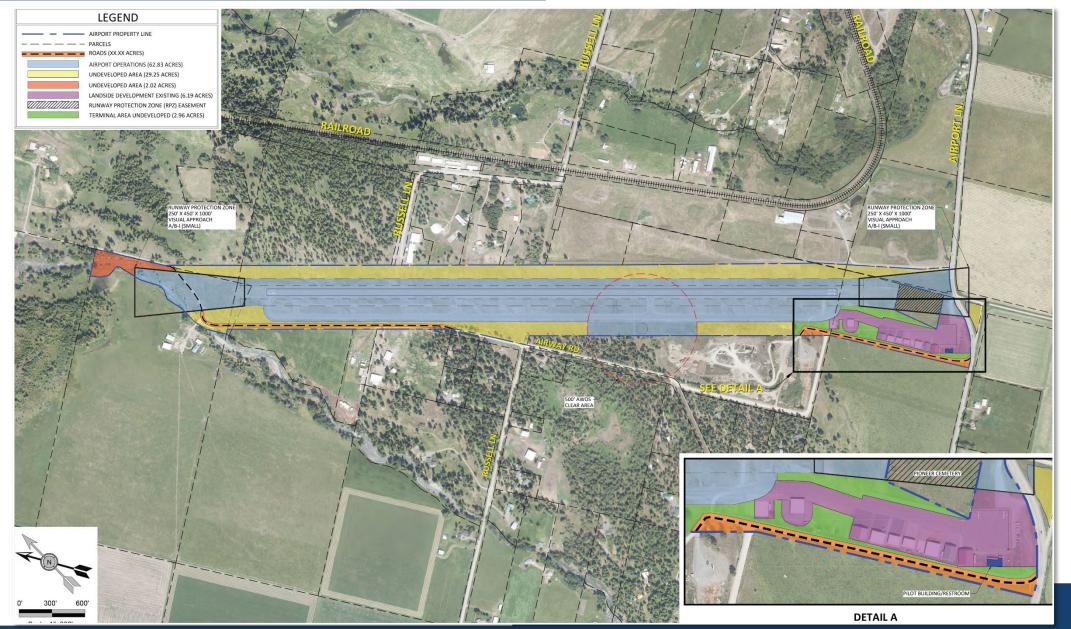
In consultation with FAA, an evaluation of an alternative landing area will not be included in the evaluation of airside alternatives and the area will not be depicted on the ALP drawing. No change in current use is proposed.



Existing Airport Land Utilization

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Airside Development Alternatives / Improvement Options



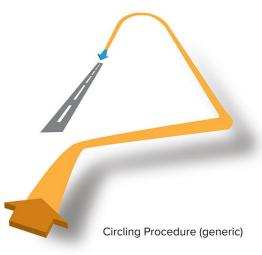


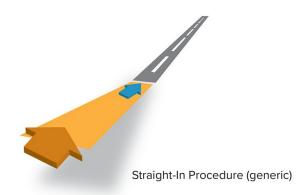
Design Aircraft and Airport Reference Code (ARC)

		Minimum Descent Altitude for Aircraft (above ground level) and Minimum Required Airport Visibility	Minimum Descent Altitude for Aircraft (above ground level) and Minimum Required Airport Visibility
Example Aircraft	Aircraft Approach Category	Circling Procedure	Straight-In (Rwy 15) Procedure
Super King Air 200 Pilatus PC-12 DCH Twin Otter Cessna Caravan	Category A	Not lower than 1,019 feet above airport before establishing visual contact with runway for landing 1.25-Mile Visibility Required	Not lower than 615 feet above runway end before establishing visual contact with runway for landing 1-Mile Visibility Required
Beech Baron 58 Beech King Air C90 Cessna 402 Cessna 421	Category B	Not lower than 1,539 feet above airport before establishing visual contact with runway for landing 1.5-Mile Visibility Required	Not lower than 615 feet above runway end before establishing visual contact with runway for landing 1-Mile Visibility Required

Source: Century West Engineering

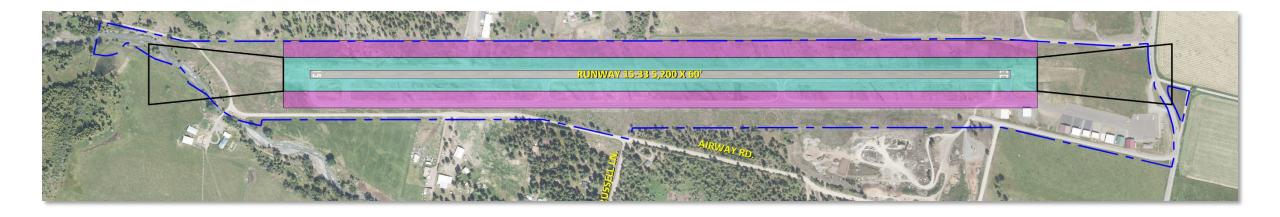
Non-Precision Instrument Approach Development











- Circling Non Precision Instrument Procedure requires a 250-foot wide Primary Surface
- Straight-In Non Precision Instrument Procedure requires a 500-foot wide Primary Surface



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NPI RUNWAY PRIMARY SURFACE PENETRATION (EXISTING PARALLEL TAXIWAY)



Issue: A review of AGIS survey data indicates that about 75 percent of Taxiway A is elevated above the runway, with a maximum excess elevation of 3.59 feet near its south end. The image depicts the areas of the taxiway (shown in red) that would penetrate the NPI primary surface.

Two runway-taxiway mitigation options are available to address the potential NPI runway primary surface obstruction:

- Lower the parallel taxiway to eliminate the primary surface penetration
- Raise the runway to elevate the primary surface above the parallel taxiway

No runway-taxiway mitigation is required if the current Visual runway primary surface is maintained to support development of a circling NPI approach procedure.

Reconstruction Taxiway Option A



- Reconstruction of Taxiway A and the northern section of the south apron taxilane.
- Changing the parallel taxiway elevation will also require reconstruction of the exit taxiway connections to maintain FAA design gradient standards.

Reconstruction Runway Option B



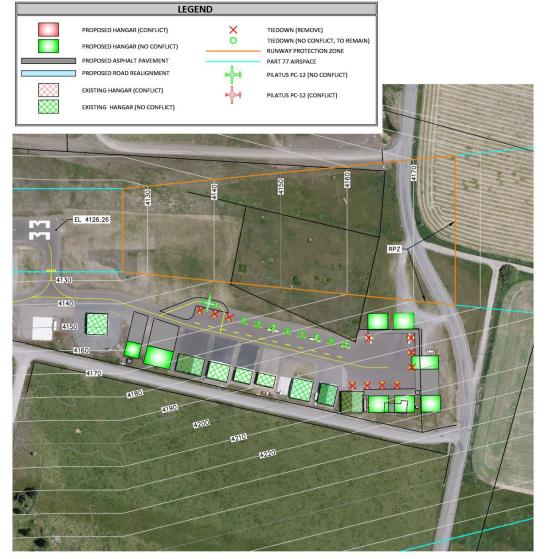
- Reconstruction of Runway 15/33 and its five exit taxiways.
- This alternative reconstructs the runway to elevate it above the parallel taxiway.





Landside Development Alternatives / Improvement Options





ALTERNATIVE 1A (EXISTING, VISUAL AIRSPACE)



ALTERNATIVE 1B (PROPOSED NON-PRECISION INSTRUMENT AIRSPACE)

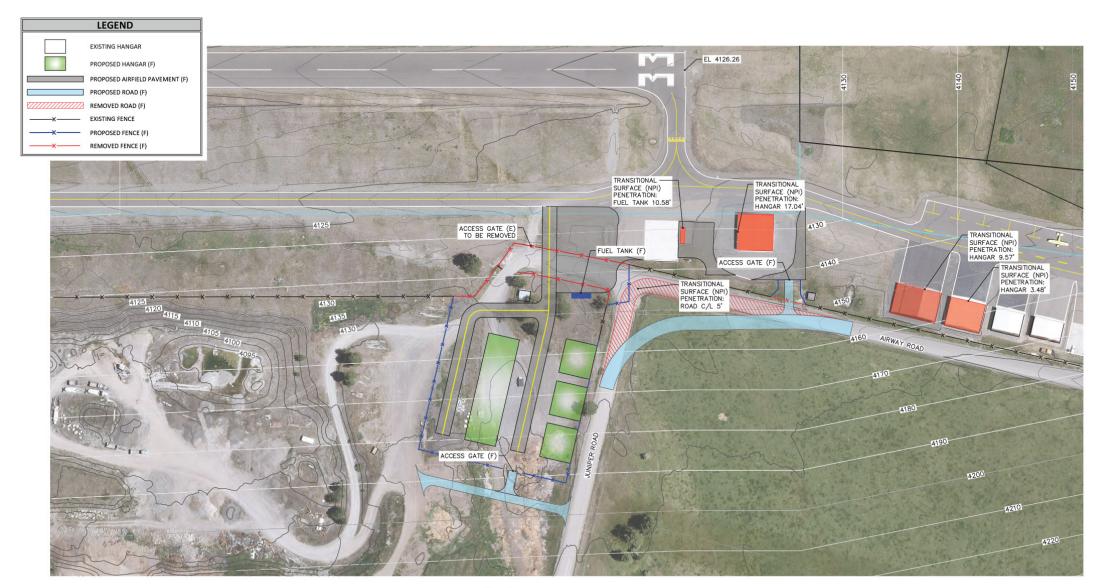






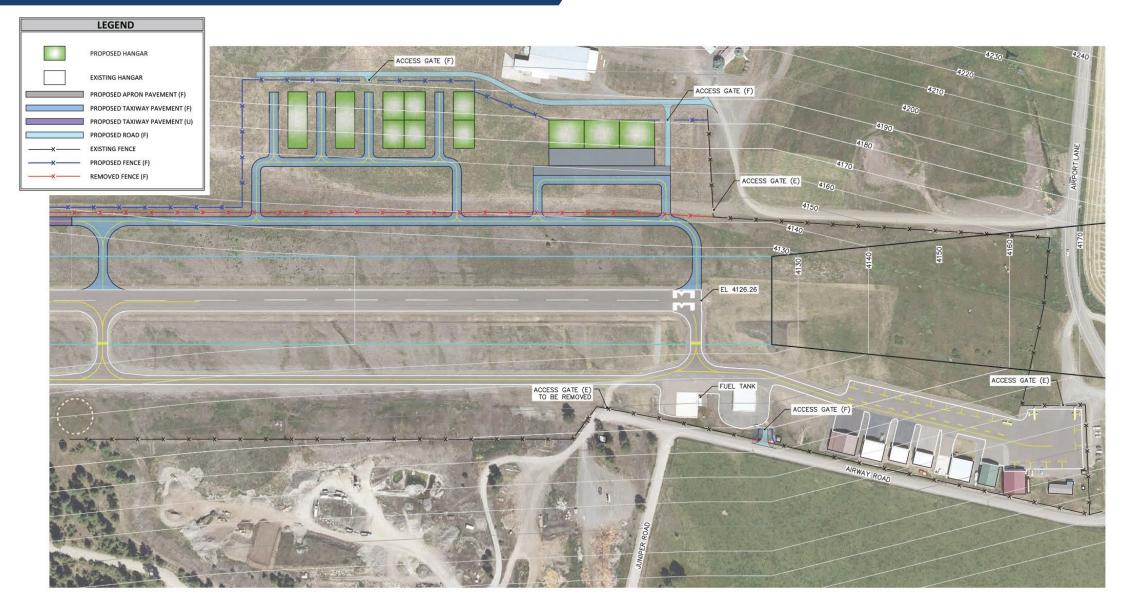
ALTERNATIVE 2A - WEST SIDE HANGAR DEVELOPMENT AREA - FAR PART 77 (VIS) AIRSPACE





ALTERNATIVE 2B - WEST SIDE HANGAR DEVELOPMENT AREA - FAR PART 77 (NPI) AIRSPACE

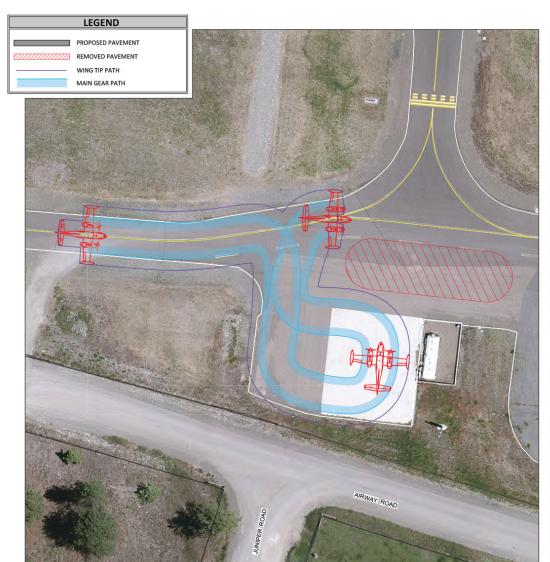












ALTERNATIVE 4A - EXISTING APRON PAVEMENT

ALTERNATIVE 4B - EXPANDED APRON PAVEMENT



- FAA Runway Incursion Standard (Apron to Runway)
 - The aircraft fueling apron is directly aligned with Taxiway A1, providing direct access between the apron and the runway
 - FAA design guidance requires changes in taxiing direction between aprons and runways to increase pilot situational awareness





- Preliminary Development Alternatives
 - Draft Alternatives Analysis chapter
 - PAC Meeting and Project Open House (February 25, 2021)
 - Documents Available for PAC and public review/comment centurywest.com/joseph-state-airport-master-plan/
 - Submitted to FAA for formal review/comment
- Airport Development Alternatives Refinement
 - ODA will analyze PAC review comments and all other stakeholder review comments provided on Draft Alternatives Analysis chapter
 - ODA will define the elements of the preliminary preferred alternative and/or identify additional evaluations required to support decision
 - The Alternatives Analysis chapter will be updated to include the recommended preferred alternative, and presented for PAC, stakeholder, and public review.
 - ODA will present its recommendations to the State Aviation Board at its April 1, 2021 meeting.





Thank You



Sarah Lucas – Sarah.Lucas@aviation.state.or.us

David Miller - dmiller@centurywest.com

Matt Rogers - wrogers@centurywest.com

Project Website

www.centurywest.com/joseph-state-airport-master-plan/

