



# **SOUTH LEWIS COUNTY AIRPORT AIRPORT LAYOUT PLAN UPDATE FOR 2017 AIRPORT MASTER PLAN**

*Planning Advisory Committee Meeting #2  
July 12, 2023*

# PROJECT TEAM



**David Miller**

Lead Aviation Planner  
Century West Engineering  
[dmiller@centurywest.com](mailto:dmiller@centurywest.com)



**Samantha Peterson**

Planner/Project Manager  
Century West Engineering  
[speterson@centurywest.com](mailto:speterson@centurywest.com)



**Mark Steele**

Planner  
Century West Engineering  
[msteele@centurywest.com](mailto:msteele@centurywest.com)



**Federal Aviation  
Administration**

**Agnes Fisher  
Airport Planner (WA)  
FAA**

[agnes.fisher@faa.gov](mailto:agnes.fisher@faa.gov)



**Washington State  
Department of Transportation**

# AGENDA

- Introductions
- Aviation Activity Forecast (FAA Approved)
  - Based Aircraft
  - Aircraft Operations (takeoffs and landings)
- Facility Requirements Overview
  - Non-Conforming Items
  - Airside Needs – Runway/Taxiways
  - Landside Needs – Hangars/Aprons
- Proposed Improvements (2017 ALP Review)
- Looking Ahead





# AIRPORT ACTIVITY

## 2022-2042 AIRPORT LAYOUT PLAN UPDATE– RECOMMENDED FORECASTS

Forecast Models	2022	2027	2032	2037	2042	AAGR
Based Aircraft Forecast						
<i>FAA National Aerospace Forecast (Weighted GA Fleet) Growth Rate</i>	41	43	44	46	47	0.71%
Aircraft Operations Forecast						
<i>FAA National Aerospace Forecast (Weighted GA Hours Flown) Growth Rate</i>	15,835	16,322	16,845	17,373	17,919	0.62%



# PREFERRED FORECAST

## Forecast Fleet Mix

### Operations and Fleet Mix Forecast for South Lewis County Airport

Year	Single Engine	Multi-engine	Jet	Helicopter	Total
2022	14,233	354	2	1,246	15,835
2027	14,663	365	10	1,284	16,322
2032	15,122	377	20	1,326	16,845
2042	16,069	400	40	1,410	17,919

# CURRENT & FUTURE CRITICAL AIRCRAFT

- **2022-2042 Critical Aircraft:** Cessna 182 (AAC/ADG: A-I Small) – typical single engine piston weighing 12,500 pounds or less.

*The 2017 ALP includes development reserves to preserve the ability to accommodate large business class aircraft (multi-engine turboprop and jets), common to ADG II.*



# FACILITY REQUIREMENTS – OVERVIEW

## Runway 06/24 / Airfield

- Complete Lighting Upgrades to LED –
  - Runway Edge Lights (MIRL)
  - Runway End Identifier Lights (REIL)
  - Visual Guidance Indicators (PAPI/VASI)
  - Airport Beacon
- Approach Obstruction Clearance –
  - Runway 6 – Clearance for vehicles traveling on Buckley Road (2017 ALP)



# FACILITY REQUIREMENTS – OVERVIEW

## Runway 06/24 / Airfield

- Maintain Runway Width (2017 ALP)
- Maintain East Runway & Parallel Taxiway Extension Reserve (2017 ALP)
- Automated Weather Observation System (AWOS)





# FACILITY REQUIREMENTS – OVERVIEW

## Terminal Area

- Aboveground Aircraft Fuel Storage Tanks, Pump System (New/Replacement), and Designated Fueling Area



Generic Installation



# FACILITY REQUIREMENTS – OVERVIEW

## Terminal Area

- Main Apron Taxiways (ADG I standards) – Modify for clearances between parked and fueling aircraft, hangars, etc. Long term apron development.
- Aircraft Storage Hangars and Commercial Hangars (aircraft maintenance, etc.).
- GA Terminal/Fixed Base Operator (FBO) Building
  - Airport Restaurant, FBO Hangar, Pilot Services, Airport Office



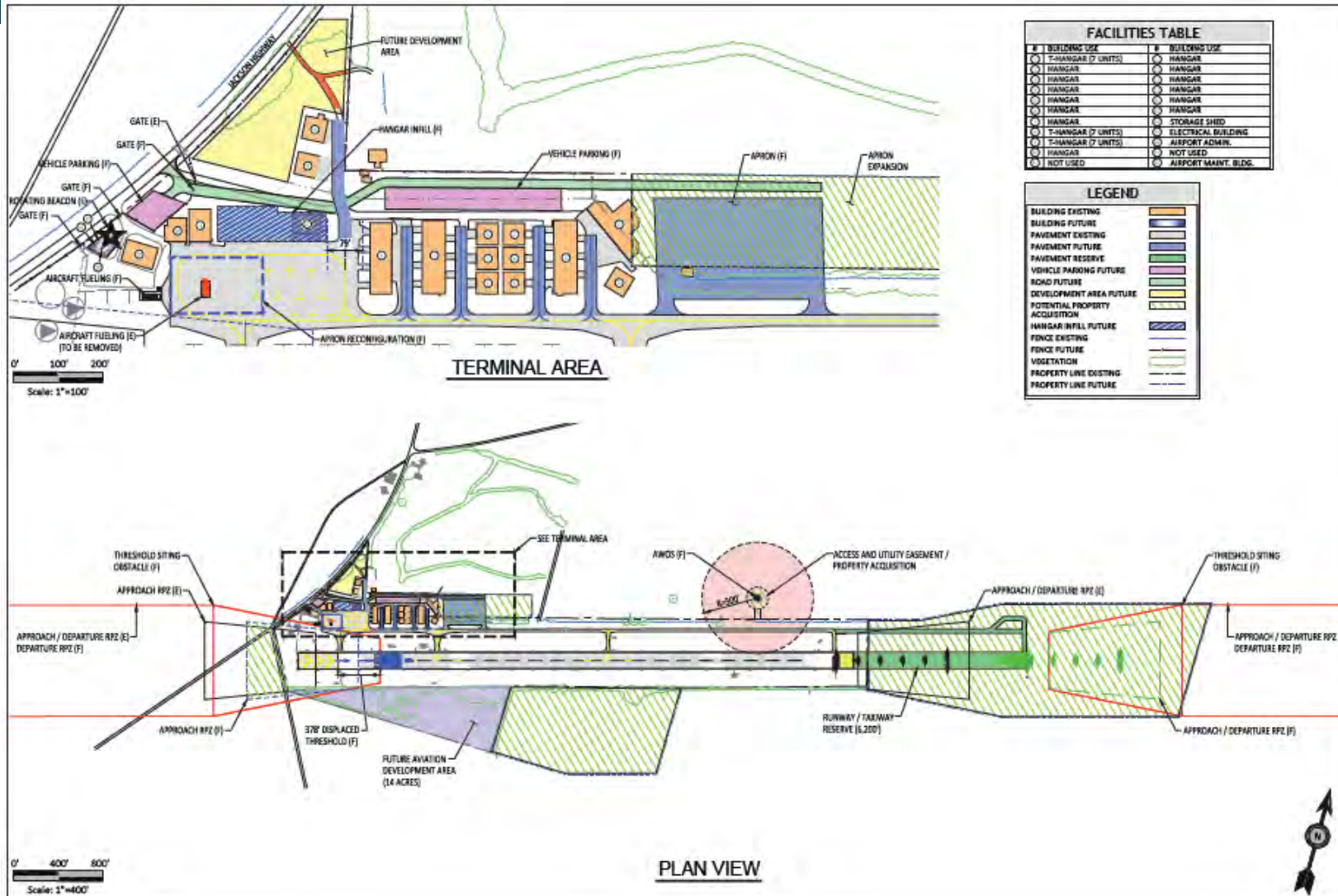
# FACILITY REQUIREMENTS – OVERVIEW

## Terminal Area

- Hangar Taxilanes – Reconstruct/Repave based on ADG I standards
- Water and sanitary sewer service upgrades/extensions



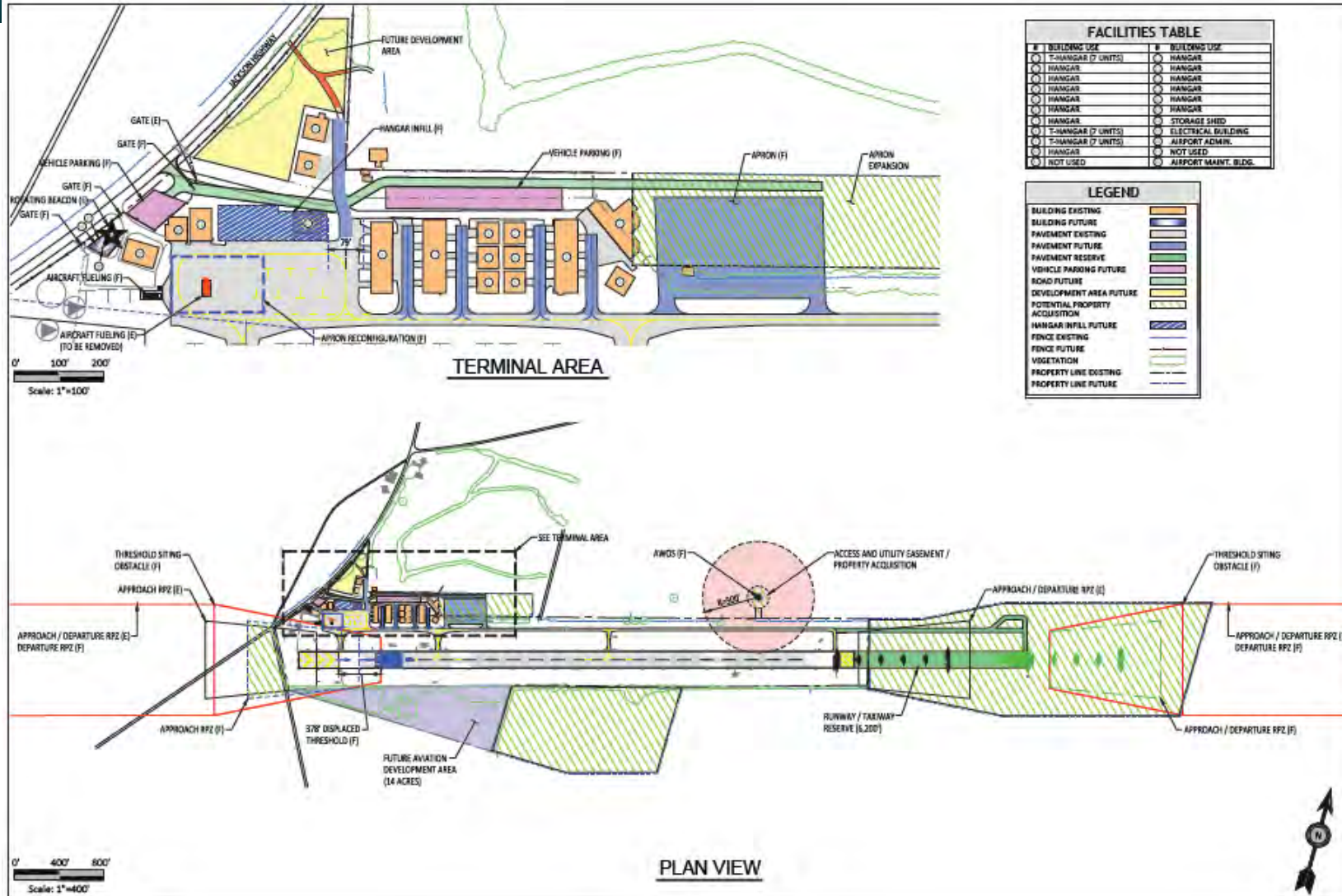
# PROPOSED IMPROVEMENTS (2023 UPDATE)



## Airside

- Runway/Taxiway Improvements
- Airfield Lighting Updates
- Weather Observation System
- Property Acquisition and Development Reserves
- Pavement Maintenance

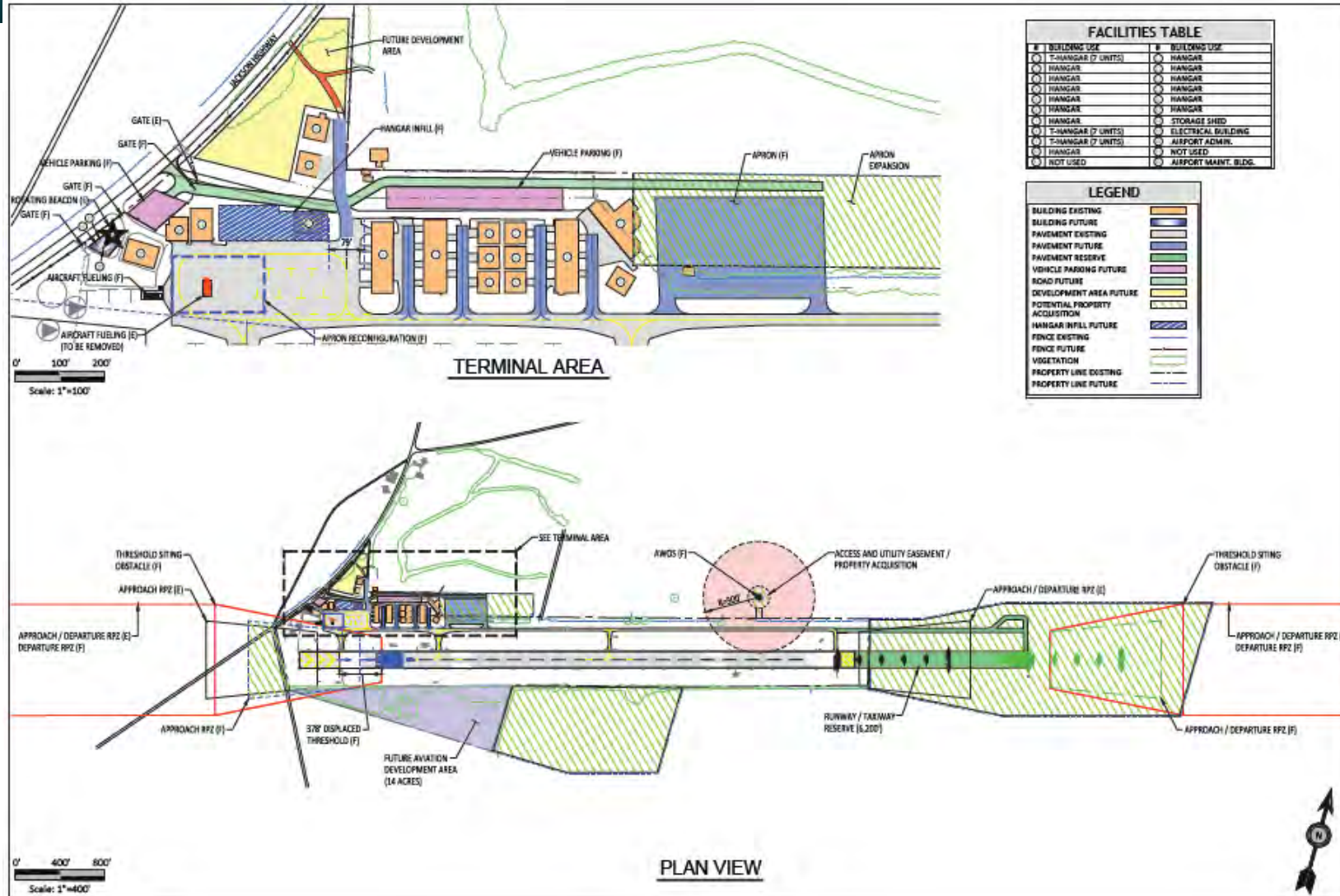
# PROPOSED IMPROVEMENTS (2023 UPDATE)



## Terminal Area

- New/Relocated Aircraft Fuel Storage Tanks and Dispensing Area
- Main Apron Reconfiguration
- Taxiway Improvements
- Pavement Maintenance

# PROPOSED IMPROVEMENTS (2023 UPDATE)



## Terminal Area

- Surface Access Upgrades
- Fencing and Gate Upgrades
- South “Triangle” Parcel Hangar Development Area

# NEXT STEPS

## ● PAC Meeting #3

- County to Select Preferred Alternative
- Alternatives Chapter Preparation
- Complete AGIS Survey
- Airport Layout Plan (ALP) Set Preparation
- Capital Improvement Plan (CIP) Preparation
- Schedule PAC Meeting #3



# QUESTIONS?

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David Miller, AICP – [dmiller@centurywest.com](mailto:dmiller@centurywest.com)

Samantha Peterson – [speterson@centurywest.com](mailto:speterson@centurywest.com)

Mark Burch – [mark.burch@lewiscountywa.gov](mailto:mark.burch@lewiscountywa.gov)