

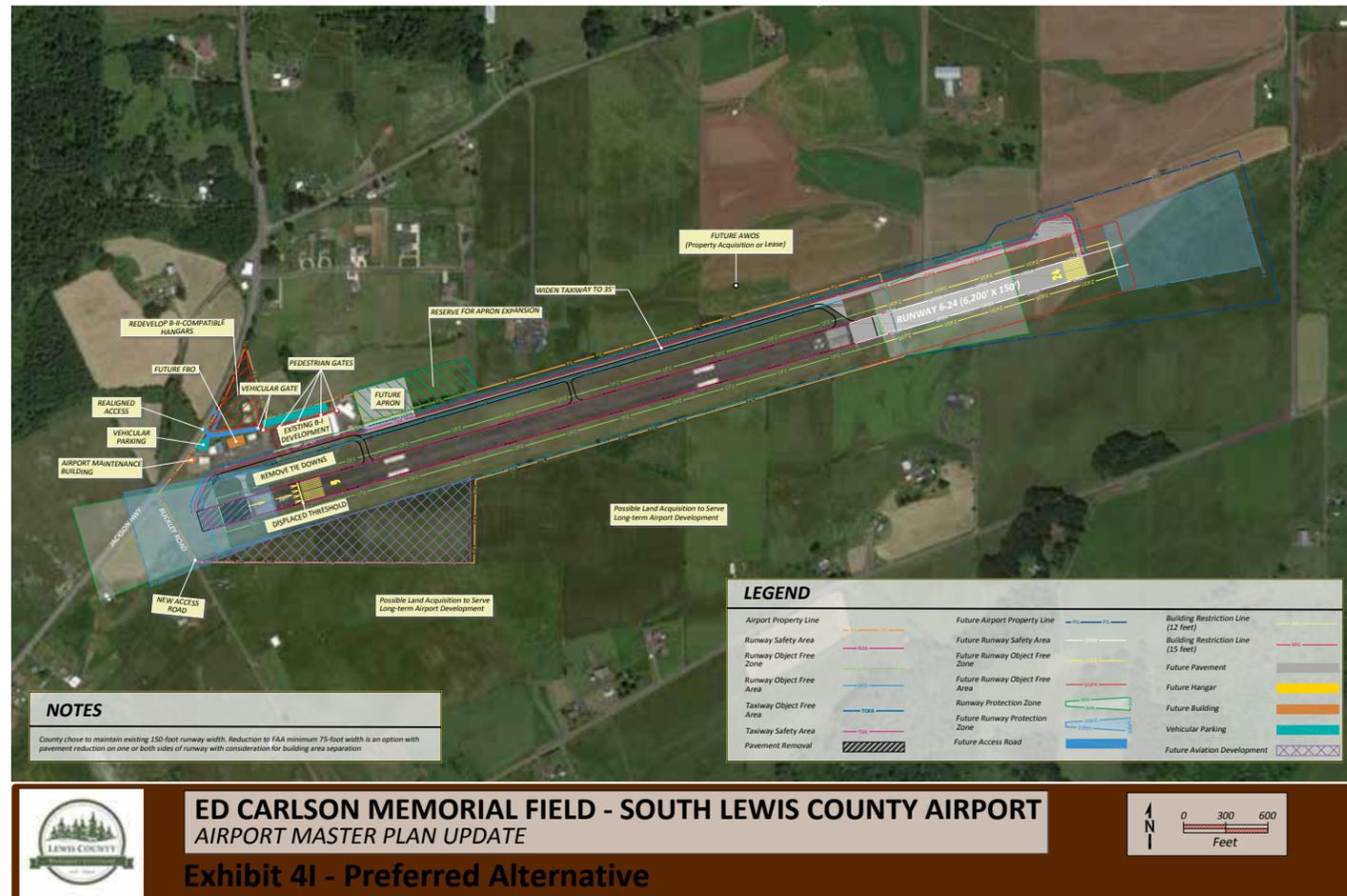
WHPacific's Executive Summary for the  
**ED CARLSON MEMORIAL FIELD, SOUTH LEWIS COUNTY  
 AIRPORT MASTER PLAN UPDATE 2016**

**Master Planning Process**

The master plan process was guided by FAA standards and design guidelines that are used nationwide. The process include seven steps, which correlate with the plan's chapters:

1. Inventory: An inventory of existing facilities on the airport is prepared.
2. Forecast: A look 20 years into the future to forecast what level of activity may occur is prepared – how many and what types of airplanes are forecast, which helps guide future needs. This forecast is formally approved by the FAA.
3. Facilities Requirements: Based upon what currently exists and the kind of activity forecast for the future, this step evaluates the types of facilities that might be needed in the future.

4. Alternatives Development and Evaluation: With an understanding of facility requirements, this step evaluates how those requirements might be met and which of the alternatives best meet the planning goals.
5. Airport Plans: A series of technical drawings that summarize and illustrate the features of the plan are prepared to FAA standards for their approval.
6. Capital Improvement and Financial Plan: An implementation plan is prepared that outlines the sequence of potential improvements and the estimated cost.
7. Compliance Review: A pre-emptive approach to avoiding potential FAA grant assurance compliance issues.



**You're Invited to Stay Involved**  
 Please check the County's website or contact us directly to stay involved with the Airport.  
<http://lewiscountywa.gov/ed-carlson-memorial-field-south-lewis-county-airport-tdo>

**Contact Us**  
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**Airport Background**

The Ed Carlson Memorial Field (formerly known as the Toledo-Winlock-County Airport) began as a privately-owned airstrip until WWII prompted Lewis County to acquire and invest in the Airport for the US government's use. Since 2001 the Airport has been under County ownership and management; prior to that it was collectively owned by the County and the cities of Winlock and Toledo.

Today, the Ed Carlson Memorial Field consists of nearly 100 acres and serves a variety of aviation interests, including: recreational and business general aviation, flight training, and emergency response. The runway is 4,479 feet long by 150 feet wide and currently accommodates approximately 16,000 annual operations.

**Master Planning for Ed Carlson Memorial Field**

The Federal Aviation Administration (FAA) uses the master plan as a tool to determine eligibility for FAA funding of capital projects at the Airport. Lewis County (County) uses the document as a guide for planning and programming a variety of projects, including those not eligible for FAA funding. This master plan was begun in 2012 and completed in 2016; it was prepared by a team of consultants led by WHPacific, Inc. in cooperation with the County.

**Community Involvement in the Master Plan**

Lewis County sought extensive public involvement during the master plan update. During the planning process, a planning advisory committee (PAC) provided input during a series of five public meetings. A final Board County Commissioner briefing will be held in September 2016 to adopt the plan.



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**Key Results of the Master Planning Process**

**Airpark Growth**

A 20-year forecast of aviation activity was prepared as part of the master plan by the consultant team, and was officially approved by the FAA. The Ed Carlson Memorial Field is forecast to grow slowly over the next 20 years in terms of number of aircraft that are based at the airpark and the level of activity.

**Based Aircraft:** For based aircraft that call The Ed Carlson Memorial Field "home," the following growth is forecast:

- Single-engine airplanes will increase from 36 to 38.
- Multi-engine will remain at 6.
- Jet aircraft will increase from 0 to 1.
- Helicopters will increase from 2 to 3.
- The total number of based aircraft is forecast to increase from 47 to 53.

**Operations:** Aircraft operations (number of takeoffs and landings) is another measure of activity at the airpark. As with the number of aircraft based at The Ed Carlson Memorial Field, the number of operations is forecast to grow slowly over the next 20 years. In 2012, the number of takeoffs and landings was approximately 12,000. In 2032 that number is anticipated to grow to a little over 19,000.

**Infrastructure:** The required infrastructure improvements identified and discussed throughout the planning process, which are necessary to meet FAA design standards while also accommodating existing users and planned growth over the 20-year planning period and beyond, includes:

- Taxiway Improvements
- Apron Expansion
- GA Terminal Development Area Improvements
- Hangars
- Auto Access Roads
- Auto Parking Capacity Improvements
- Utilities & Drainage Improvements and Expansion
- Land Acquisition (Runway Protection, Future Development, etc.)
- Runway and Taxiway Extensions

**North Side Development:** This development site will provide new opportunities for on-airport aircraft storage.

**Aviation Development Reserve:** Preservation of County owned land for potential future development once all other improvements on the ALP have been completed



**Apron Expansion:** To meet the forecast needs of the planning period additional apron space is required at the airfield. The apron expansion area below will provide additional parking for based and itinerant aircraft as well as improved circulation in and out of the existing apron areas around the FBO.



**Taxiway A Improvements:** Taxiway A will be rehabilitated to meet Runway Design Code (RDC) B-I standard.

**Runway and Taxiway Extension:** Although the 1,721-foot runway/taxiways extension to the east is not justified in the 20-year planning period, inclusion of the extension in the Airport Layout Plan (ALP) will allow the County to protect the land for the extension in the future.

