



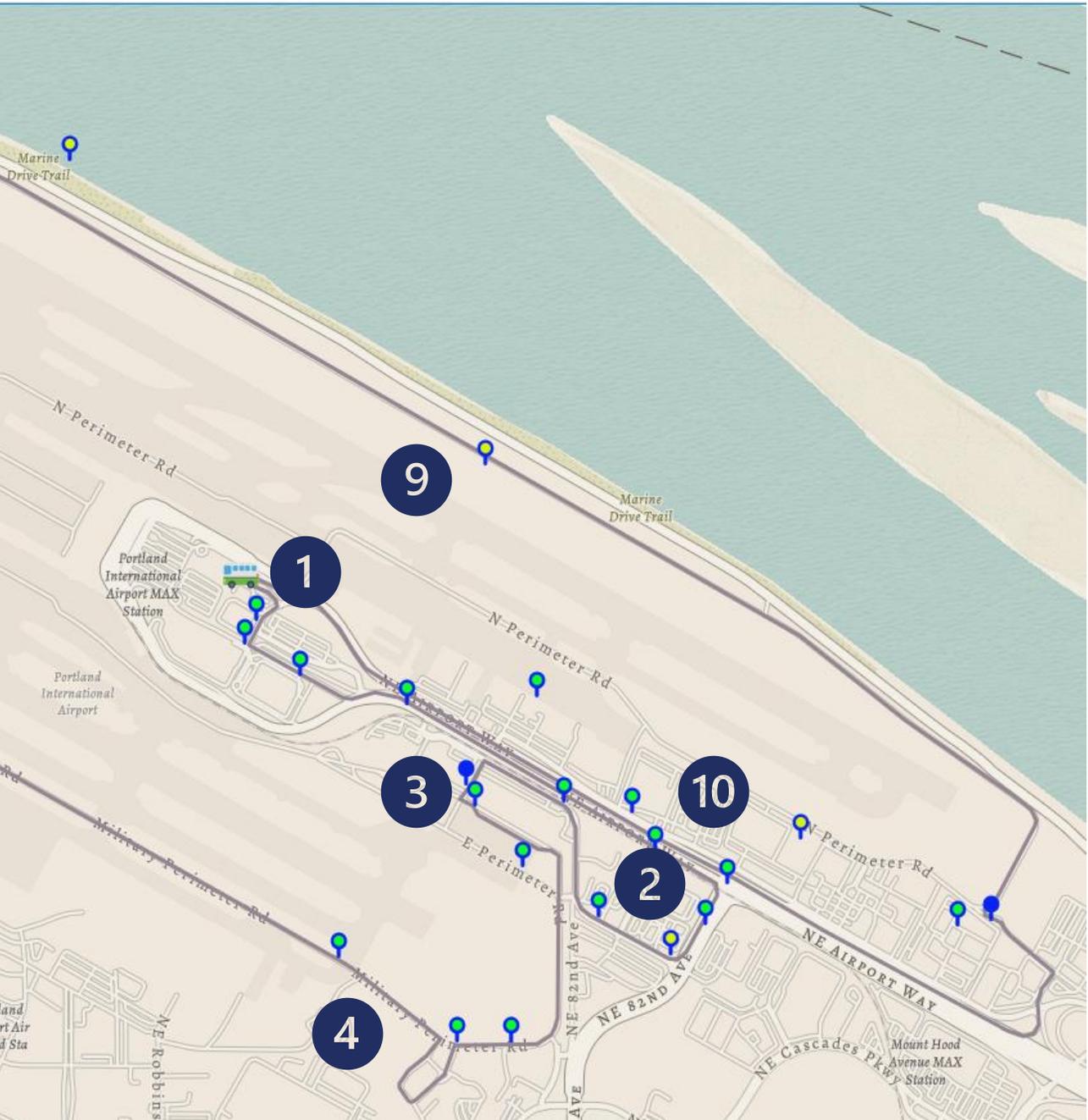
Port of  
Portland

# PAC 3 Airfield Tour

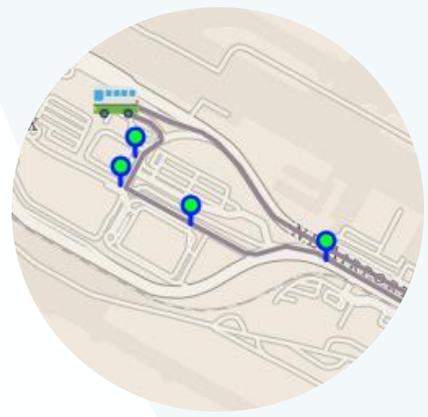
September 19, 2024

# Map





# 1 HQ Area



## HQ

Built in 2010, the Port's HQ houses staff from across the organization, including aviation, maritime, and business operations.

*Fun fact:* the three floors' meeting rooms are named based on this schema: lower floor is maritime (like Chinook), middle floor is landside (like Trillium), upper floor is airside (like Aurora.)



## Central Utility Plant (CUP)

Housing most utilities for the operation of PDX, the CUP is currently undergoing its own Seismic Resiliency plan update to address seismic and capacity issues associated with the aging structure.



## Rental Car Center/P3 (RCC)

Completed as part of the last Master Plan (2011), the RCC/P3 reflects the ongoing work of bringing PDX's operations and facilities closer to passengers for ease of use. The first three floors are used by Rent-a-Car (RAC) companies, and the top three floors are long term parking.



## Quick Turnaround (QTA)

Along with the RCC, the QTA was envisioned as part of the centralization of passenger and rental car facilities closer to the terminal. The QTA houses everything RAC companies need to 'turnaround' a vehicle to be re-let to another user, including interior and exterior cleaning.

## 2 Airport Way/ 82nd Avenue



### Airport Way

The central corridor for all vehicular traffic to and from PDX, Airport Way acts as one of the key pieces of infrastructure that shapes how PDX can (and cannot) expand. The most recent realignment came with the addition of RCC/P3 and the TriMet MAX platform expansion.



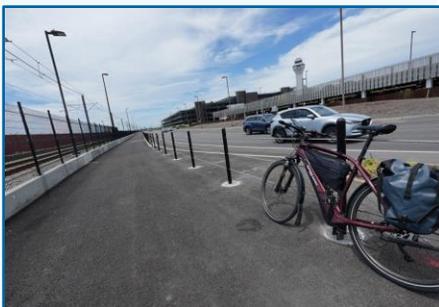
### MAX Red Line

In 2024, TriMet's "A Better Red" saw the completion of double-tracking of the Gateway-PDX section of the Red Line, allowing more consistent schedule adherence to MAX trains arriving and departing from the Airport. The Airport station timetable acts as the foundation of the entire TriMet network of trains and buses across the region.



### 82nd Avenue

82nd Avenue is the main alternate North-South entrance into PDX (after I-205) and the portion that is managed by the Port runs from Alderwood Rd to Airport Way. It has been realigned several times over the years in order to avoid penetrating the Runway Protection Zone (RPZ). The original alignment is still visible (to the south) as *Construction Only* traffic.



### Multi-Use Path (MUP)

Completed in collaboration with TriMet's "A Better Red," the path allows bikes and pedestrians to more easily access PDX from points south. Additional work is being done to address pedestrian and bike access at 82nd/Air Cargo Rd and wayfinding to/from the MUP.

# 3 PDX Cargo Center



## PDX Cargo Center (Landside)

The PDX Cargo Center is located on the south side of NE Airport Way. The campus comprises two buildings: West Cargo Complex and East Cargo Complex. The Port owns and manages both facilities. Additional functions, such as airline services, GSE maintenance and storage, and Airport maintenance, are carried out in the PDX Cargo Center.



## PDX Cargo Center (Airside)

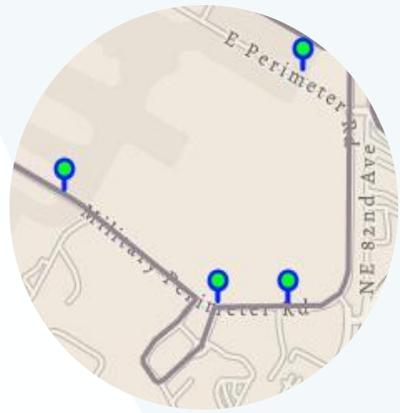
Often, airport cargo operators conduct “through-the-fence” operations – transferring cargo from aircraft to vehicles (or visa-versa). Airside facilities typically include aircraft parking areas and equipment storage. Landside facilities often have vehicle loading and unloading areas.



## Snow Pad

This area is the only designated space for storage of snow plowed by the Port's snowfighting equipment. During significant snow events, the snow pad is insufficient to store the amount of snow that must be plowed from runways, taxiways, ramps (aprons) and other hard surfaces on the airfield.

# 4 Maintenance, ORANG



## SkyChefs

LSG Sky Chefs provides in-flight catering services to some passenger airlines serving the Airport. LSG Sky Chefs leases a 40,000-square-foot facility on a 3-acre site located on the south side of the Airport, west of the NE 82nd Avenue/NE Alderwood Road intersection.



## Maintenance

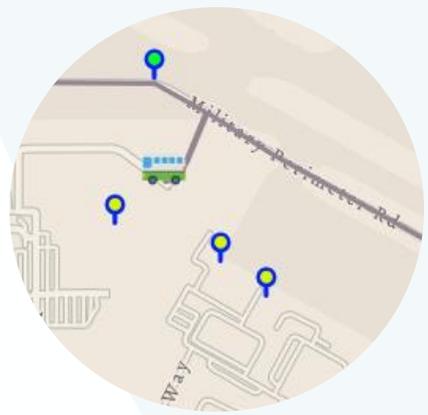
The maintenance campus consists of six buildings and several specialized utilities and operations areas, including an unleaded/diesel fueling island, a high-pressure compressed natural gas fueling station, liquid deicer storage tanks and dispensing system, a gravel laydown area for large equipment, and vehicle storage.



## Oregon Air National Guard (ORANG)

The Airport is home to the 142nd Wing of the ORANG. Currently, 20 F-15 Eagle aircraft are based here. However, these aircraft are slated to be replaced by a squadron of up to 24 F-15EX Eagle II aircraft. The basing of the F-15EX aircraft will require the demolition, construction, and upgrade of several facilities. ORANG is currently modernizing its facilities.

# 5 Hangars, GRE



## United Hangar

United Airlines leases a 3.0-acre site adjacent to ORANG south of Runway 10R-28L. This site includes a building, a hangar, and ramp (apron) space. The apron can accommodate aircraft up to the Boeing 757.



## Horizon Hangar

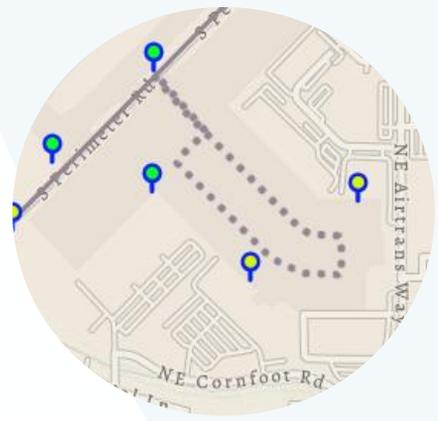
Horizon Air's operations base, training facility, and maintenance facility are located on a 16.0-acre site immediately south of the Ground Run-up Enclosure.



## Ground Run-up Enclosure (GRE)

The noise produced by aircraft engine run-up maintenance tests is of concern to the surrounding community, especially during nighttime hours. To reduce noise exposure from these tests, the airlines conduct engine run-up tests inside a sound-insulated GRE.

# 6 Airtrans Ramp



## Small Cargo Feeders (Box Haulers)

These small aircraft are chartered to deliver cargo to and from regional airports, such as North Bend (Coos Bay.) Large integrated cargo airlines (such as FedEx and UPS) will charter these aircraft to quickly connect with rural Oregon communities.



## Airtrans Ramp

The Airtrans Center encompasses approximately 190 acres of land on the southwest side of the Airport. The Airtrans Center primarily accommodates airlines that specialize only in cargo (not passengers) such as Cathay Pacific.



## FedEx/UPS

Both FedEx and UPS are integrated carriers. Integrated carriers provide door-to-door transportation services with the support of their transportation network. They operate their own aircraft, truck fleet, and warehouses and use aircraft ramp parking.



## Boeing

Boeing leases a 26.8-acre area located at the south end of Runway 3-21. The site includes a 266,900-square-foot hangar and 348,000 square feet of ramp space. The facility is used to paint Boeing aircraft, so you may see an airline here that does not serve PDX.

# 7 Runway 3-21, SW Quadrant



## Crosswind Runway (3-21)

Runway 3-21 is oriented in a northeast–southwest direction and located west of the passenger terminal. Runway 3-21 usage by all jet aircraft is heavily restricted by an FAA-approved noise compatibility program and is therefore used primarily by small cargo feeders.



## Third Parallel Runway

The concept for a third parallel runway was originally conceived in the 2000 Airport Master Plan and is shown in the current Airport Layout Plan (ALP). It is important to safeguard for potential future expansion requirements by reevaluating and reserving the optimal future runway site.



## SW Quadrant

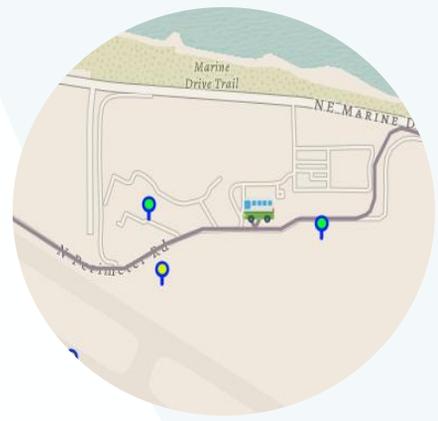
The largest portion of undeveloped land at PDX, the "SW Quadrant" is west of Runway 3-21 and south of Runway 10L-28R. The Port is currently managing the area to mitigate wildlife hazards.



## BPA Hangar

The Bonneville Power Administration (BPA) hangar is used to store the aircraft and helicopters BPA uses to fly to its different operational sites. The ramp (apron) is used for aircraft parking, as well as the take-off and landing of helicopters.

# 8 Fuel Farm, ARFF



## Deicing Facilities

Deicing of aircraft during winter weather takes place at the gates. After deicing operations, the glycol is collected by special recovery vehicles which vacuum up runoff. The remainder of the runoff is collected by the Airport's drainage system where it is then treated at the deicing facilities and discharged into either the Columbia Slough or the Columbia River.



## Fuel Farm

The Airport's fuel farm provides aircraft fuel storage in three aboveground Jet A storage tanks. Jet fuel is then pumped from the storage tanks to various sites throughout the Airport via an underground distribution system. Aircraft parked at the terminal contact gates receive fuel via an underground hydrant system.



## Airport Rescue & Firefighting (ARFF)

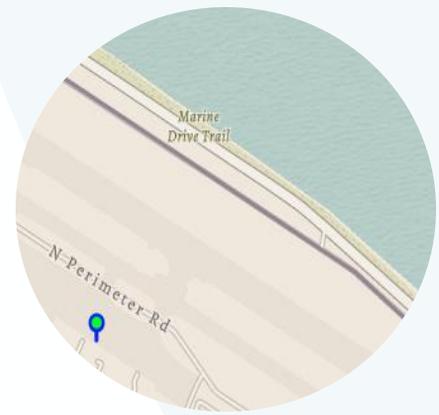
Personnel at the PDX ARFF facilities are responsible for all Airport firefighting and emergency medical services. The primary ARFF facility contains space for living quarters, administration, training, equipment storage, and vehicle bays. Additional ARFF facilities include a live fire training facility, a hazardous materials building, a boat house/rescue boat, and an alert shelter.



## Roof Assembly Area

Past the ARFF and Fuel Farm facilities is a large expanse of pavement that has been used to assemble the new terminal roof during construction. Future utilization of this open area will be analyzed as part of PDX 2045.

# 9 North Perimeter



## North Perimeter Road

North Perimeter Road runs along the northern edge of the Airport parallel to NE Marine Drive and provides vehicular access between the northeast and northwest portions of the airfield around Runway 28R-10L. To the north of is the levee that supports Marine Drive.



## Remain Overnight Parking (RON)

Additional aircraft parking positions, referred to as remote hardstands or RON positions, are often required to accommodate aircraft without a gate assignment over the course of the day. RON positions are required for extended ground times or overnight parking at the Airport to optimize gate use and efficiency. There are several areas currently used for RON positions across the airfield, including the north ramp, bravo ramp, southeast ramp, and reserve ramp.



## Atlantic Aviation (Airside)

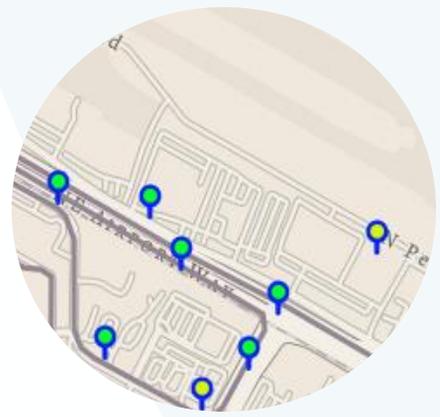
Atlantic Aviation is the one fixed-base operator (FBO) that operates at PDX and provides services such as aircraft parking, aircraft storage, passenger and pilot amenities, fueling, charters, and aircraft maintenance.



## Rental Car Storage

There is additional rental car storage space located along Frontage Road. Long-term plans are to relocate rental car storage to the Portland International Center (PIC). Rental cars are also occasionally stored in the South Runway RPZ off NE 82nd Avenue and in vacant spaces in the Airtrans Center.

# Atlantic Aviation/ Frontage Rd



## Frontage Road

NE Airport Way is designed to be a high volume, limited access roadway, so direct roadway access to adjacent facilities is provided by Frontage Road on the north side and NE Air Cargo Road on the south side. Frontage Road provides access to uses such as economy parking, rental car storage areas, the Sheraton and Hampton Inn hotels, general aviation, and shuttle bus storage.



## Hotels

There are a variety of hotels on airport property along Frontage Road and in Cascade Station. The two hotels closest to the terminal are the Sheraton and Hampton Inn hotels on the north side of Frontage Road.



## Delta Cargo Center

Currently occupied by Hoffman/Skanska, construction teams working on TCORE Phase 2, this building was formerly leased by Delta.

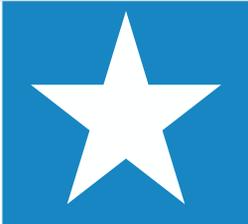


## Atlantic Aviation (Landside)

Atlantic Aviation facilities include a terminal building, hangars, a fuel farm, ramp (apron) space, an aircraft maintenance facility, and ancillary facilities for storage and maintenance of ground service equipment (GSE).

# Airside Terminology

Term	Explanation
<b>Air Operations Area</b> <b>AOA</b>	Secured area "inside the fence" at the Airport that is controlled through access gates.
<b>Aircraft Rescue and Firefighting</b>	The Airport's "fire station"
<b>Airside (Airfield)</b>	The portion of an airport that contains the facilities necessary for the operation of an aircraft.
<b>Apron (Ramp)</b>	A specified portion of the airfield used for passenger, cargo or freight loading and unloading, aircraft parking and the refueling, maintenance and servicing of aircraft.
<b>Belly Cargo</b>	Cargo that is shipped in the lower deck of passenger aircraft
<b>Crosswind Runway (Runway 3-21)</b>	A crosswind is wind that is not parallel to a runway centerline or to the intended flight path of an aircraft. At PDX, the "Crosswind Runway" refers to Runway 3-21, which is used when there is a significant crosswind to the two parallel runways (North and South.)
<b>Fixed Base Operator</b> <b>FBO</b>	A business enterprise located at an airport that provides services to pilots including aircraft rental, training, fueling, maintenance, parking, and the sale of pilot supplies.
<b>Ground Run-up Enclosure</b> <b>GRE</b>	The noise produced by aircraft engine run-up maintenance tests is of concern to the Airport's surrounding community, especially during nighttime hours. To reduce noise exposure from these tests, the airlines conduct engine run-up tests inside a sound-insulated GRE.
<b>Ground Service Equipment</b> <b>GSE</b>	Equipment used to service airplanes between flight, including refueling, towing, loading/unloading luggage/freight, transporting passengers, loading potable water, and more.
<b>Landside</b>	The portion of an airport that provides the facilities necessary for the processing of passengers, cargo, freight and ground transportation vehicles.
<b>Navigational Aid</b> <b>NAVAID</b>	A piece of equipment designated for use as an aid to air navigation.
<b>Remain Overnight</b> <b>RON</b>	Parking positions used for parking non-active aircraft away from the terminal. Helps make gates available for passenger operations.
<b>Small Cargo Feeder (Box Hauler)</b>	Small aircraft, such as a Cessna 208 Caravan, used to transport cargo to regional airports by integrated cargo carriers.
<b>Taxiway</b>	A defined path established for the taxiing of aircraft from one part of an airport to another. A <i>taxilane</i> is used to navigate from aircraft parking to a taxiway.

Unexplained Acronym or Initialism	Snowfighting Equipment	Private Jet	Ultra-Low Cost Carrier: Spirit, Frontier, Sun Country, Allegiant	Helicopter
Port Police Vehicle	"Snarge"	Ramp Employee	Fuel Storage Tank	MAX Train
Deicing Facility	Military Aircraft		Turboprop/ Propellor Plane	Ground Service Equipment (GSE)
Ground Run-up Enclosure (GRE)	NATO Alphabet Letter	Baggage Vehicle	Navigational Aid (NAVAID)	Belly Cargo
Cargo Aircraft	Airport Firefighting Apparatus	Multi-Use Path (MUP)	Economy Lot Bus	Foreign Carrier: British Airways, Icelandair, Condor, Volaris



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