

## FRONTIER LAND PORT OF ENTRY (LPOE) | NORTHPORT, WA



U.S. Land Port of Entry Station



October 2011 - December 2012



\$15,056,091



General Services Administration



Design-Build Construction



Zero OSHA Recordables



LVI provided design-build services for a Land Port of Entry facility at the busiest commercial border crossing in eastern Washington for the US Department of Homeland Security and US Customs Border Protection through a General Services Administration acquisition.

The new complex consists of three buildings - a two-story, 850 square foot main port facility, a secondary inspection building and a 6,000 square foot commercial vehicle inspection building (CVIB).

However small, LPOE's are complex, technically demanding projects. Security is the facility's primary mission and the building contains the most up-to-date systems as appropriate to the practices of CBP. LVI was instrumental in ensuring that the LPOE maintained full operation throughout the design-build phase with minimal disruption.

The building materials and unique security requirements of the main building made the design challenging. The wood-framed structure includes ballistic exterior and interior wall systems. The building also had specific requirements for work flow and security, while meeting sustainability goals and maintaining a regional architectural look. The new port facility contains a complete high security system with access control, intrusion detection as well as CVASS which includes infrared cameras.

The Frontier LPOE is a complex facility including advanced mechanical systems that



ensure a clean, safe and comfortable work environment while providing substantial energy savings. Proper air flow, the use of low-emitting materials and awareness of potential indoor pollution sources will maintain air quality for years to come and ensure a pleasant and positive work environment.

- » Separation of construction waste debris to achieve a 98% recycling rate
- » Integrated retention ponds that collect all the storm water and naturally filter with native vegetation.

## LEED GOLD CERTIFICATION

The Frontier LPOE achieved the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) Gold certification through a number of strategies, including:

- » 30 kW solar energy system
- » Wetlands habitat protection
- » Bio-based spray foam insulation with the R-value of R-57
- » Advanced heating and air-conditioning systems
- » LED fixtures and lighting
- » Heat recovery units
- » Interior occupancy and atmosphere sensors
- » Advanced water-saving plumbing fixtures that reduced the facility's water use by more than 20%
- » Lumber sourced from a sustainably managed forest and certified by the Forest Stewardship Council
- » Structural steel containing 80% recycled content

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