



BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

Project Title: Installation of RPMs at Portland Ocean Ferry Terminal

Location: Portland, Maine

Scope: Installation of radiation portal monitor (RPM) systems and ancillary equipment at the Portland Ocean Ferry Terminal

Berner Construction, Inc. was contracted by Pacific Northwest National Laboratory (PNNL), which is operated by Battelle Memorial Institute for the Department of Energy, to complete the installation of RPMs for the CAT ferry terminal in Portland, Maine. At the completion of the project, PNNL, transferred the ownership of installed systems to the U.S. Government under the U.S. Customs and Border Protection (CBP) under the Department of Homeland Security.

The project scope was to install RPM pairs and ancillary equipment to monitor five inbound lanes of traffic including four (4) privately operated vehicle (POV) lanes and one bus/POV lane.



The work scope included the electrical installation of electrical conduit and wiring for operation of the monitors. The power and signal cables and wires were installed from the RPMs to the existing security check booths to the CBP office in the main terminal building. The majority of the electrical wiring was placed in conduits installed below grade in trenches that were backfilled with dyed controlled density fill. The above grade conduit was installed beneath the existing inspection canopy.

A third party utility locating service was utilized to identify and mark-out underground utilities inside the work area. Berner also furnished and placed 10 steel base plates and 64 steel ballast plates for the RPMs. Concrete foundations were constructed for the installation of 22 steel pipe bollards and sign posts. Berner installed the government-furnished equipment including RPMs, annunciators, control boxes and supervisory computer. The project was then completed with the asphalt pavement restoration and markings.



The work activities were coordinated among the CAT ferry operator, CBP personnel, and the City of Portland. The work was scheduled to accommodate the CAT ferry arrival schedule from Yarmouth, Nova Scotia. Work was completed in one month without interruption to the ferry operations.