Standard Drawing Report

Date: November 1, 2017

Technical Owner: Signals – Charles W. Radosta, P.E.

Standard Drawing No. P-623 Calculation Book No. n/a

Drawing Title: Pedestrian Signal, Sensor, and Pushbutton on Frangible, Ornamentals, and Pipe Posts

Background Information, Including Reference Material:
The City of Portland changed its standard pedestrian signal head mount style from a metal pipe mounting bracket to a clamshell mount in the 1980’s. The standard drawing follows the guidance contained in the 2009 Manual on Uniform Traffic Control Devices (MUTCD) and the Americans with Disabilities Act (ADA).

This standard drawing also includes typical mounting locations for pedestrian motion and presence sensors.

This standard drawing evolved from the Bureau of Traffic Engineering Standard Detail Drawings (“D” series drawings) developed in the 1960’s and refined periodically into the mid-2000’s. In particular, this drawing connects back to detail drawings D-303NE, D-304NA, and D-305.

Assumption Made:
The engineer positions the pedestrian signal heads with proper visibility to the waiting pedestrian on the opposite corner. The standard drawing excludes elements commonly provided by the manufacturer with the expectation that those components meet the appropriate structural and electrical codes.

Design Narrative:
The standard drawing includes mounting options for attaching pedestrian signal heads onto ornamental street light poles, frangible base poles, and pipe posts. The pedestrian signal attaches with a two-piece hinged clamshell mounting bracket and includes a terminal block for wiring termination as shown on Standard Drawing P-622.