**POLE-MOUNTED CABINET**

- Mount solar panel clamp a maximum of 6" below the top of the pole with a bracket that offers horizontal and vertical positioning of the panel.

- 200W minimum solar panel (as required)

- 4" diameter, Schedule 80 spun aluminum pole

- Pole clamps

- 8'-9" or 4'-9" Pole height

- 10" with solar or 6" without solar mounting height

- Drill pole to provide wire access between the pole and cabinet

- Terminate conduit 2" above the bottom of the breakaway base

- Breakaway aluminum base

- Ground surface

- 1 1/2" PVC conduit (when no solar panel)

- 3/8" dia. x 8" copper-clad ground rod or 14" x 14" copper ground plate

- Power supply conduit (when no solar panel)

- 6"x6" Welded wire mesh with minimum 1' overlap

- Aluminum shelf, adjustable in 2-inch increments from cabinet base to 6 inches from cabinet top that does not deform or restrict air flow or block access to other equipment

- On left wall, 6" x 6" louvers with internally sealed air inlet filter. Do not interfere with terminal strips. Ensure right wall louver is 4" from top of cabinet.

- Cabinet ground busbar

- NEMA Type 3R watertight, outdoor cabinet 30" x 24" x 16" unless otherwise approved by the CO See Note 6

- Door handle capable of padlocking

- Side-opening door encompassing 80% (approx.) of the cabinet face

- If required, place fan on right wall louver as directed by the CO

**CABINET**

- On left wall, 6" x 6" louvers with internally sealed air inlet filter. Do not interfere with terminal strips. Ensure right wall louver is 4" from top of cabinet.

- Door handle capable of padlocking

- Side-opening door encompassing 80% (approx.) of the cabinet face

- If required, place fan on right wall louver as directed by the CO

**POLE CLAMP**

- (See Note 4)

- Mounting bracket

- Gasket

- 13 3/8" Tamper proof head

- Secure with set screws

- Pole base door (See Note 8)

**U.S. DEPARTMENT OF TRANSPORTATION**

**FEDERAL HIGHWAY ADMINISTRATION**

**EASTERN FEDERAL LANDS HIGHWAY DIVISION**

**U.S. CUSTOMARY DETAIL**

**TRAFFIC COUNTER CABINET WITH 10'-0" OR 6'-0" SOLAR PANEL MOUNTING HEIGHTS**

**NOTES:**

1. On sites with no solar panel, install cabinet pole at a mounting height of 6 feet. Ensure power cables enter cabinet from underground conduit.

2. If cabinet is located more than 30 feet from the edge of travelway, provide a minimum cover of 12 inches. Otherwise, provide a minimum cover of 10 inches.

3. Install copper-clad ground rod or copper plate according to Subsection 636.07.

4. Refer to Subsection 721.01(f) for grounding and bonding equipment material requirements.

5. Refer to Subsection 721.02(a) for pole and cabinet paint requirements.

6. Provide cabinet equipped with a door stop that holds the door open at 90 degrees and 120 degrees.

7. Ensure cabinet is clean, watertight, and tilted to prevent standing water.

8. Place cabinet and pole base door so that they face away from the direction of traffic.

9. Install anchor bolts vertically using templates provided by the manufacturer. Alternatively, use 4-inch diameter, 18-inch long eyebolt anchor bolts.