

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

If required, place fan on right wall louver as directed

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

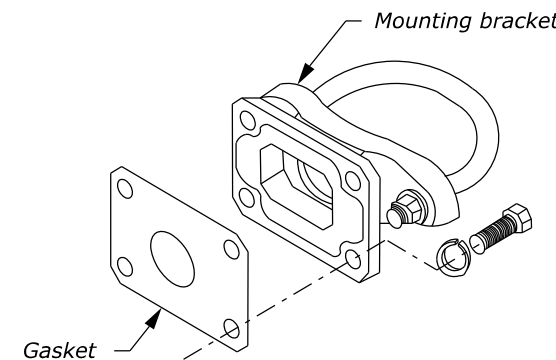
Door handle capable of padlocking

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 wall.

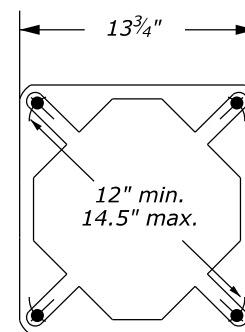
NOTES:

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 18 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 3/4-inch diameter, 18-inch long elbowed anchor bolts.

CABINET



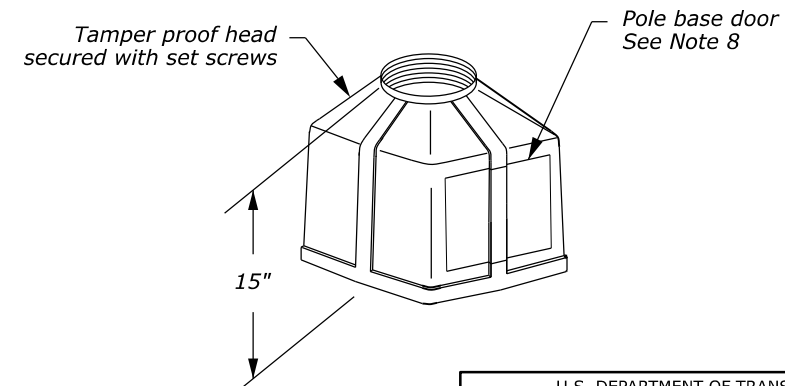
POLE CLAMP
See Note 4



SECTION A-A

BREAKAWAY ALUMINUM BASE

NO SCALE



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

20W min. solar panel (as required)

4" dia., Schedule 80 spun aluminum pole

NEMA Type 3R watertight, outdoor cabinet 30" x 24" x 16" unless otherwise approved by the CO (See Note 8)

Cabinet ground busbar

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

10' with solar or 6' without solar mounting height

Pole clamps

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

1/2" max.

6" min.

12" or 18" min. See Note 2

2" PVC conduit

5/8" dia. x 8' copper-clad ground rod or 14" x 14" copper ground plate See Note 3

To pull box

Power supply conduit (when no solar panel)

Concrete foundation

1 1/2" PVC conduit

3/4" dia. x 18" long anchor bolt (typ.) (See Note 9)

6" x 6" Welded wire mesh with minimum 1' overlap

POLE-MOUNTED CABINET

U.S. DEPARTMENT OF TRANSPORTATION, FHWA
OFFICE OF FEDERAL LANDS HIGHWAY

EFLHD DETAIL
E636-06

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

SPECIFICATION
FP-24, FP-14
APPROVED FOR USE
06/2024