43-15 Foreign Objects Installed on Company Poles

DONALD E. SODERBERG JR

Revised 08/04/2020 | Required Use

43-15 Foreign Objects Installed on Company Poles

General

- Requests for permanent and temporary (three or more) installations of banners or signs must go through the Infrastructure Attachment Group. A Pole License Agreement —Non-Cable Communications Equipment (form 161) is required.
- Temporary installations of banners or signs on no more than two Company poles must be in accordance with **section 6-60**.
- The attaching party must obtain all necessary permits, licenses, easements, franchises, and consents from property owners and governmental authorities.
- The safety of our employees, our customers, and the public must always be our highest priority. System reliability must also be considered. The banner must not interfere with the operation and maintenance of our facilities.

Content

> **CAUTION**
> Consumers Energy **must approve** all content on banners and signs. Examples are shown below. If unsure of appropriate content, contact the **person responsible for this section**.

- Content allowed are items sponsored by governmental agencies such as:
  - festivals, parades, and art fairs
  - holiday and season decorations
  - zoos, museums, and other cultural organizations
  - educational institutions
- Content **not** allowed:
  - events not open to the general public
  - commercial advertisements

Types of Installations

Span Wire Banners

- Span wire banners are large banners strung on a messenger from pole-to-pole or from a pole to another structure, see **figure 43-15-1**.

Vertical Banners

- Vertical banners are small banners suspended vertically between flexible supports on a single pole. They may be mounted symmetrically or to one side, see **figure 43-15-2.**

Signs

- Signs are constructed of metal or other rigid material and are attached to the pole by banding or other means. The sign may be centered or mounted off to one side of the pole, see **figure 43-15-3.**

> **CAUTION**
> In the Communication Workers Safety Zone do not install any equipment per NESC 238E except luminaries and traffic signals.

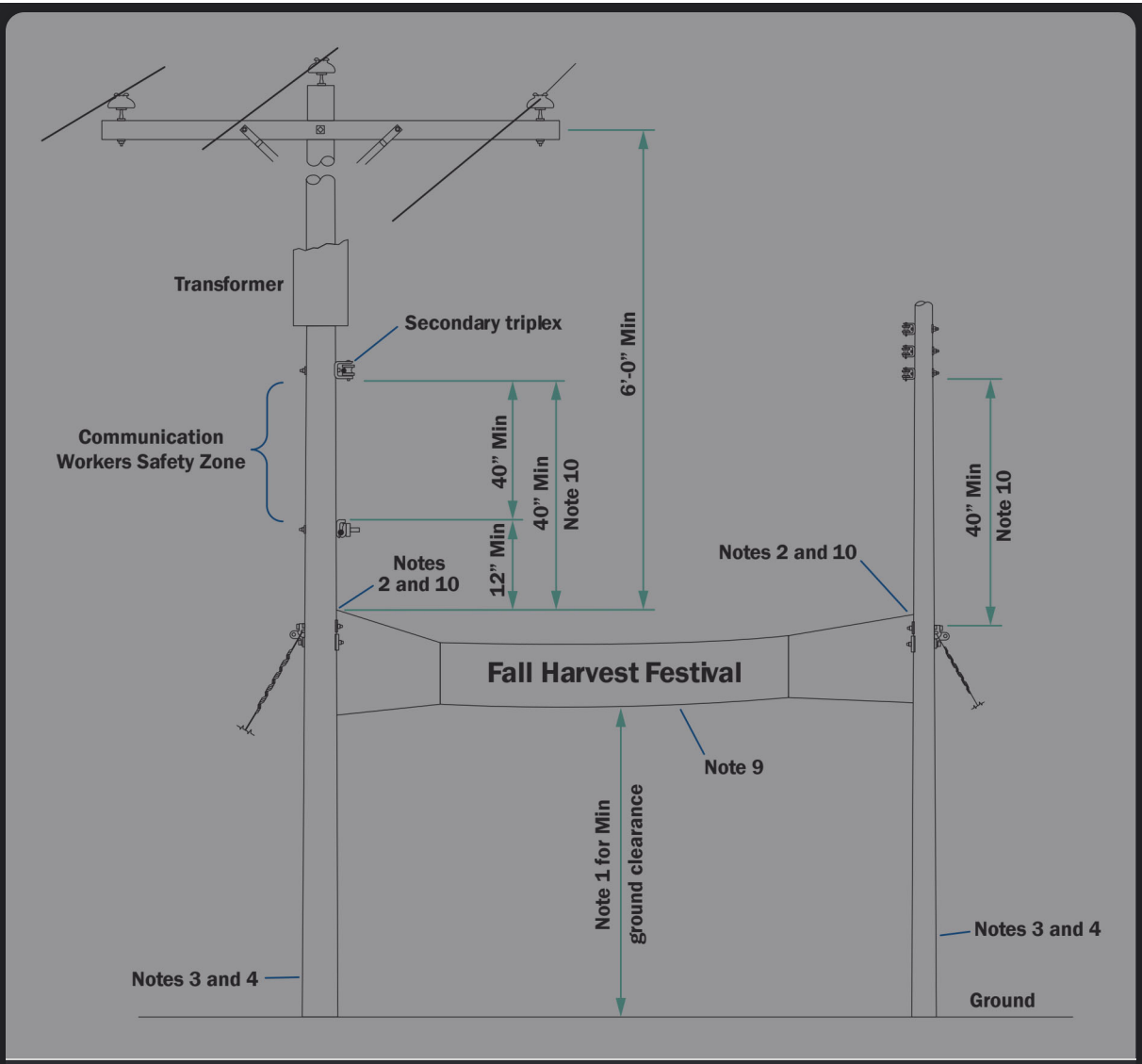

FIGURE 43-15-1 Span Wire Banners Installed on Company Poles

Notes

1. Actual contact height is subject to National Electrical Safety Code (NESC) ground clearance requirements. Consumers Energy will specify the attachment height.
2. The attachment method must be approved by Consumers Energy.
3. Span wire banners are only allowed on wood distribution poles because they can be guyed. Do not install span wire banners on wood poles with streetlights because wind vibration may compromise the integrity of the bulb. Poles must be sound or adequately repaired before installations.
4. Only install banners on bucket accessible poles.
5. Span wire banners shall not be installed on poles with existing communications equipment and/or underground riser cables.

6. Encourage installation on separate guyed poles.
7. Span wire banners must be guyed for the maximum strength of the supporting messenger. Obtain maximum supporting messenger strength from the customer. To evaluate pole and guy loading, an approved structural assessment computer program must be used.
8. Banner must be perforated to reduce the wind load.
9. To reduce wind loading and to avoid clearance issues, banners can only be installed between poles that do not have other wires crossing above or below the banner.
10. Attachments are to be made by a qualified worker as non-qualified workers must maintain the required Michigan Occupational Safety and Health Administration (MIOSHA) clearances when working near supply conductors. See **section 3-305** for additional information.

> **CAUTION**
> In the Communication Workers Safety Zone do not install any equipment per NESC 238E except luminaires and traffic signals.

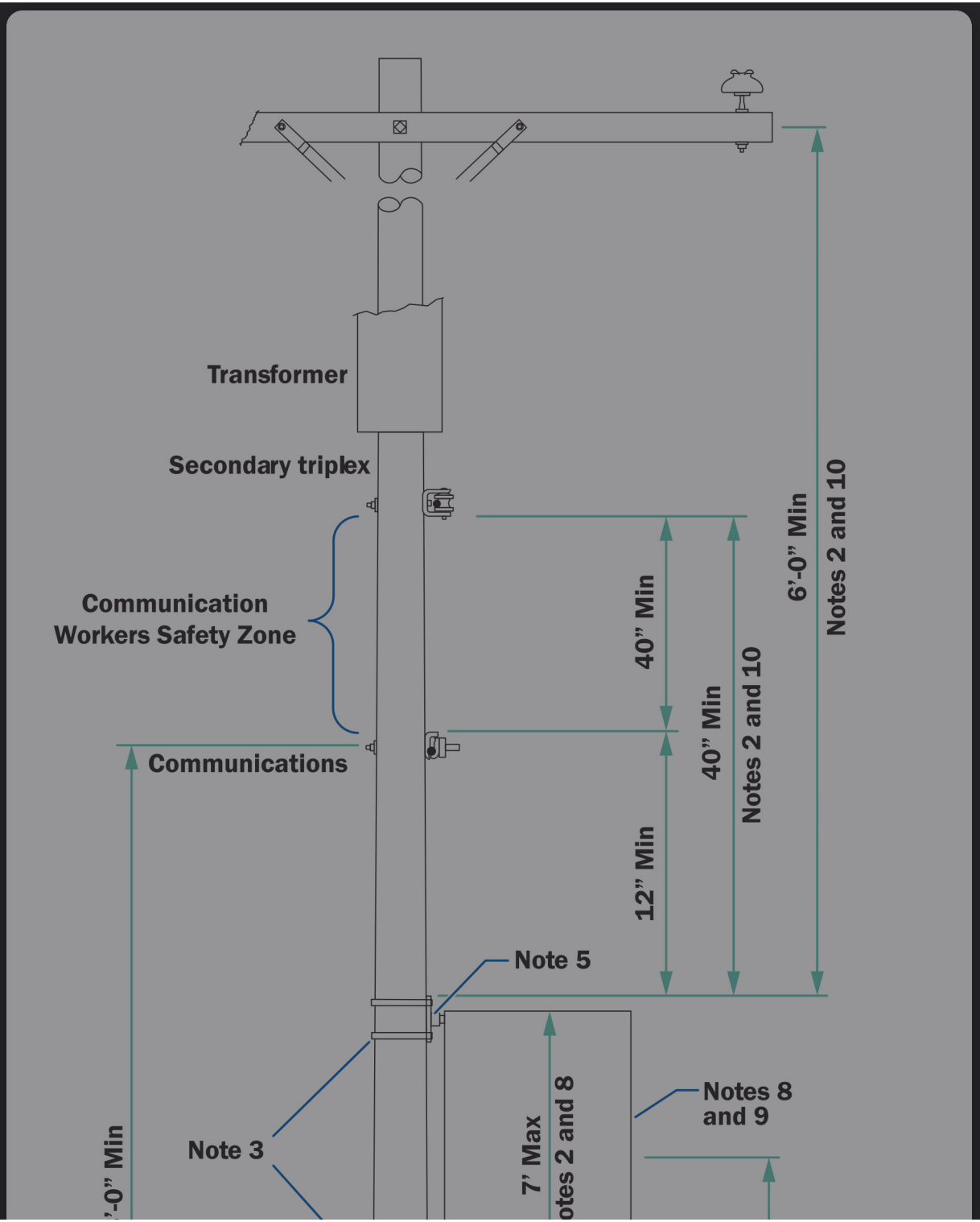
Transformer
Secondary triplex
Communication
Workers Safety Zone
Communications
40" Min
40" Min
Notes 2 and 10
6'-0" Min
Notes 2 and 10
12" Min
Note 5
Note 3
7' Max
Notes 2 and 8
Notes 8
and 9
'-0" Min

FIGURE 43-15-2 Vertical Banners Installed on Company Poles

Notes

1. Actual contact height is subject to NESC ground clearance requirements. Consumers Energy will specify the attachment height.
2. Ensure the banner is not able to reach energized conductors if it comes detached from the bottom bracket.
3. The attachment method and hardware must be approved by Distribution Standards and Materials.
4. Vertical banners are allowed on concrete, steel, or wood streetlight and distribution poles. If requested to be installed on fiberglass poles, contact the **person(s) responsible for this section** for design considerations. Poles must be sound or adequately repaired before installations.
5. Banners are supported on hinged arms; otherwise, use the criteria for signs in **figure 43-15-3**
6. Only install banners on bucket accessible poles.
7. Banners shall not be installed on poles with existing communications equipment and/or underground riser cables.
8. Total banner area must not exceed the following:
    - Single banner, unbalanced—21 sq ft
    - Balanced pair—42 sq ft
9. To reduce wind load, banner(s) must be oriented 90° to the tangent spans as shown in **figure 43-15-2**.
10. Attachments are to be made by a qualified worker as non-qualified workers must maintain more than ten feet of clearance to energized conductors per MIOSHA.

> **CAUTION**
> In the Communication Workers Safety Zone do not install any equipment per NESC 238E except luminaires and traffic signals.

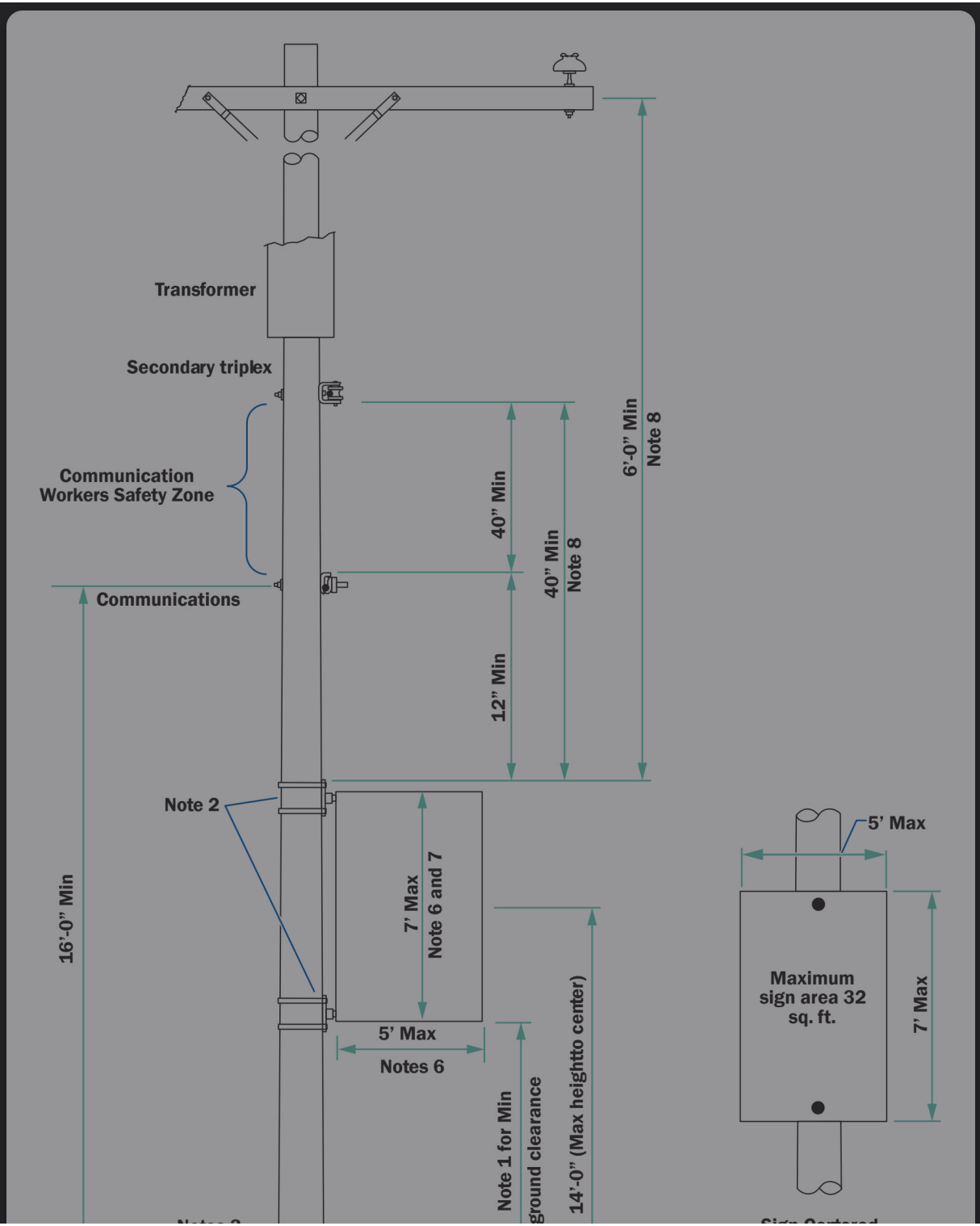
Transformer
Secondary triplex
Communication
Workers Safety Zone
Communications
40" Min
40" Min
Note 8
12" Min
6'-0" Min
Note 8
16'-0" Min
Note 2
7' Max
Note 6 and 7
5' Max
Notes 6
Note 1 for Min
ground clearance
14'-0" (Max heightto center)
5' Max
Maximum
sign area 32
sq. ft.
7' Max

FIGURE 43-15-3 Signs Installed on Company Poles

Notes

1. The actual contact height is subject to NESC ground clearance requirements. Consumers Energy will specify the attachment height.
2. Attachment method must be approved by Consumers Energy.
3. Signs are allowed on concrete, steel, or wood streetlight or distribution poles. If requested to be installed on fiberglass poles, contact the **person(s) responsible for this section** for design considerations. Poles must be sound or adequately repaired before installations.
4. Only install signs on bucket accessible poles.
5. Signs shall not be installed on poles with existing communications equipment and/or underground riser cables.
6. The maximum torsional loading for eccentrically mounted signs is limited by the formula, T= Ae* as follows:
    - In general, Tmax = 30
    - For signs counterbalanced by a six foot bracket mounted luminaire, Tmax = 37.5
7. To reduce wind load, banner(s) must be oriented 90° to the tangent spans as shown in **figure 43-15-3**.
8. Attachments are to be made by a qualified worker as non-qualified workers must maintain more than ten feet of clearance to energized conductors per MIOSHA.

*Where “A” equals the sign area in square feet and “e” equals the distance from the center of the pole to the center of the sign in feet.