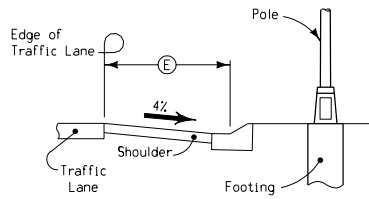
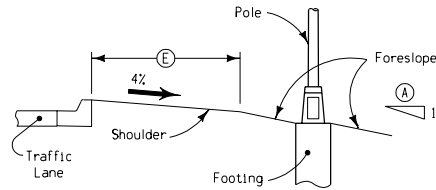


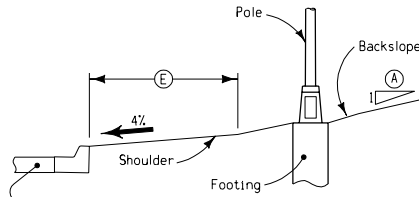
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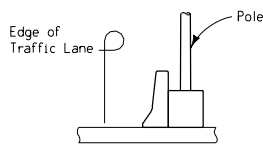
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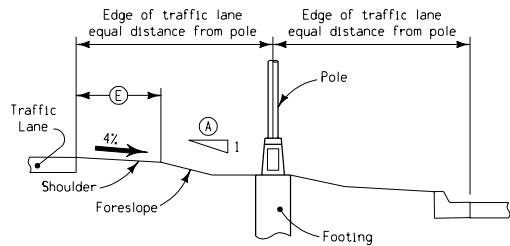
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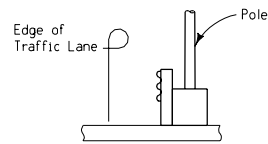
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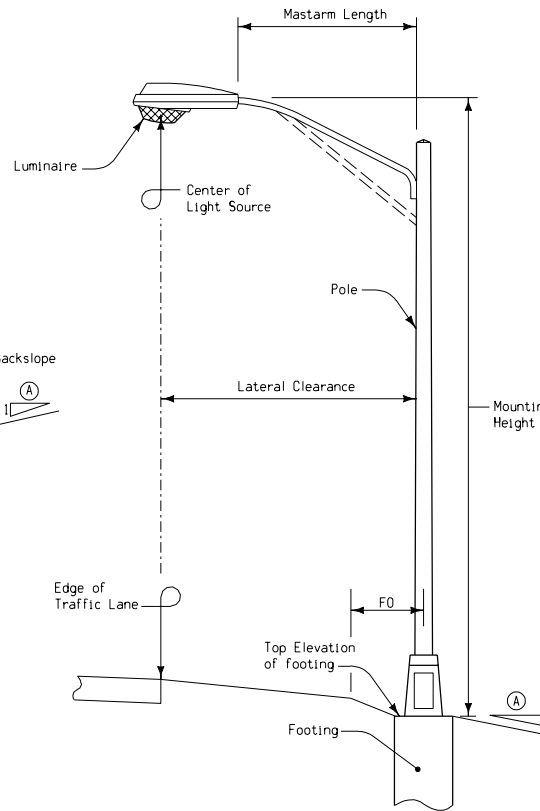
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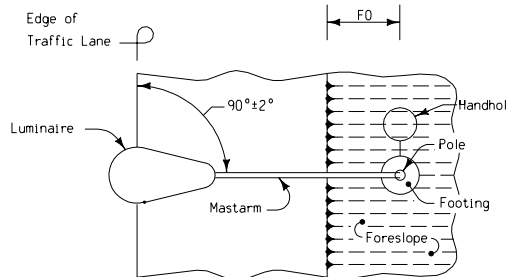
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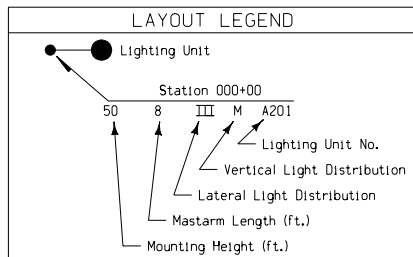
TYPE 7



TYPICAL POLE INSTALLATION



ORIENTATION OF MASTARM



**GENERAL NOTES:**

The details indicated hereon are for the installation of light poles on transformer bases for roadway illumination.

Materials and methods of construction shall be in accordance with current Standard and Supplemental Specifications.

Refer to appropriate Standard Road Plans and project plans for additional details.

**DEFINITIONS:**

**Mounting Height (MH)** is the dimension measured vertically from the center of end of mastarm to the top of footing as shown. Allowable tolerance in MH for final installation is from +3 inches to -3 inches.

**Overhang (OH)** is the horizontal dimension from the edge of the traffic lane to the luminaire center. Unless specifically designated otherwise, design OH shall be zero, with an allowable tolerance of ±6 inches.

**Lateral clearance** will be controlled by luminaire dimensions, and by specified overhang and mastarm dimensions. Unless otherwise directed by the Engineer, clearance of adjacent poles having identical mastarm lengths shall not vary by more than ±3 inches.

**Orientation:** If not otherwise specified, angular orientation of mastarms shall be  $90^\circ \pm 2^\circ$  to the respective centerlines or baselines, or to the respective edges of the pavement along acceleration and deceleration tapers.

**Twin-Mastarm Angles:** Included angle shall provide required orientation within the nearest 5 degree increment. Anticipated angle will be shown on the detail plans.

**Footing offset (FO)** is the vertical offset from the edge of the shoulder to the centerline of footing. If the foreslope is steeper than 6:1, FO should be between 2 and 3 feet. If the foreslope is 6:1 or flatter, the FO will vary based on specified mast arm length.

**Iowa Department of Transportation**  
Project Development Division

**STANDARD ROAD PLAN RM-31**

REVISION: Revise notes.	REVISION NO.
	1
APPROVED BY: <i>John C. Christ</i> 05-24-99	REVISION DATE
DESIGN METHODS ENGINEER	09-21-99

LOCATION DETAILS FOR POLES  
ON TRANSFORMER BASES  
(ROADWAY LIGHTING)