

Clearance Requirements:

Clearance anywhere in the span (Under 1/2 inch Ice Loading and 4psf wind)	Clearance Requirement	Reference Standard
Power Conductors (0-750V)		
Clearance above highway	18 feet 0 inches	State of AR/ Most other utilities
Clearance above railroad	25 feet 0 inches	State of KS/ OK/ MO/ AR
Clearance above areas subject to truck traffic, driveways, parking lots & alleys	16 feet 0 inches	NESC 232-1
Clearances above areas subject to pedestrians and restricted traffic only (Fences, ditches, embankments and other similar terrain features)	16 feet 0 inches	Empire Standard
Water areas not suitable for sail boating, prohibited or non-swimming (Surface area shall be based on 10-year flood level (if available), or normal flood level)	14 feet 6 inches	NESC 232-1
Communication Attachments		
Clearance above highway	18 feet 0 inches	State of AR/ Most other utilities
Clearance above railroad	25 feet 0 inches	State of KS/ OK/ MO/ AR
Clearance above areas subject to truck traffic, driveways, parking lots & alleys	16 feet 0 inches	Empire Standard
Clearances above areas subject to pedestrians and restricted traffic only (Fences, ditches, embankments and other similar terrain features)	16 feet 0 inches	Empire Standard
Water areas not suitable for sail boating, prohibited or non-swimming (Surface area shall be based on 10-year flood level (if available), or normal flood level)	14 feet 0 inches	NESC 232-1
Clearance from lowest power	30 inches	NESC 235C2b(1)(a)
Clearance from other Communication	4 inches	NESC 235H
Communication clearance at pole	Clearance Requirement	Reference Standard
Clearance from lowest power (Ex: Guy, riser, secondary, xfmr bottom, drip loop, xarm brace etc.)	42 inches	Empire Standard
Clearance from lowest power (Ex: primary xarm)	114 inches	Empire Standard
Clearance from light base (Assuming all lights are NOT effectively grounded)	40 inches	NESC 238-2
Clearance from drip loops associated with luminaires and traffic signals	13 inches	Empire Standard
Clearance from communication to communication	12 inches	NESC 235-5

Additional Design Criteria :

No criss crossing in span.

No sharing of communication anchors with Empire.

Minimum distance between attachments on poles is 4 inches.

Horizontal clearance from structures is 3 feet: billboards, buildings, street lights.

Span guys and down guys are also defined as low power.

All new single phase primary poles will be at least 40ft class 4 poles.

All new 3-phase primary poles will be at least 45ft class 4 poles.

Uplift will more likely to be considered if a pole change out occurs within 150ft span.

Standard embedment of 10%+2ft will be assumed on any new pole change-outs and midspan poles.

NESC Zone 1 (Heavy loading) to be applied on Empire service territory (KS/OK/MO/AR).

Communication must install downguy and anchors prior to installing cable/fiber strand.

Minimum 4ft of separation is required between communication and power anchors.

Communication to follow power lines. If communication takes other pole line from Empire, communication need to terminate on last Empire pole and bury to next pole.

Poles with white square metal tag are deemed to be rotten/bad poles - Empire will replace the pole.

Poles with yellow square metal tag require additional reinforcement for pole stability.