

SYSTEM VOLTAGE	MINIMUM HORIZONTAL CLEARANCE 'X'	MINIMUM VERTICAL CLEARANCE 'Y'
UP TO 600V, AND NEUTRAL	1.0m ^A + MAX. CONDUCTOR SWING*	2.5m ^B + MAX. CONDUCTOR SAG**
2.4/4.16 to 44kV	3.0m + MAX. CONDUCTOR SWING*	4.8m + MAX. CONDUCTOR SAG**

* – CALCULATED AS DL6-109-0500.

** – SEE SECT. 7 SAG TABLES.

A – WHERE THE PORTION OF THE BRIDGE IS READILY ACCESSIBLE TO THE PUBLIC, THIS CLEARANCE SHALL BE INCREASED TO 1.2m.

B – CLEARANCE MAY BE REDUCED TO 1m FOR PORTIONS OF THE BUILDING OR ABOVE-GROUND PIPELINE CONSIDERED NORMALLY INACCESSIBLE.

NORMALLY INACCESSIBLE – NOT READILY ACCESSIBLE TO PERSONS UNLESS SPECIAL MEANS FOR ACCESS ARE USED. (FOR EXAMPLE – AN ACCESSIBLE ROOF MEANS A ROOF AREA HAS A PERMANENTLY INSTALLED ACCESS.)

ALL CLEARANCES ARE APPLICABLE TO NON-METALLIC BUILDINGS OR BUILDINGS WHOSE METALLIC PARTS ARE EFFECTIVELY GROUNDED.

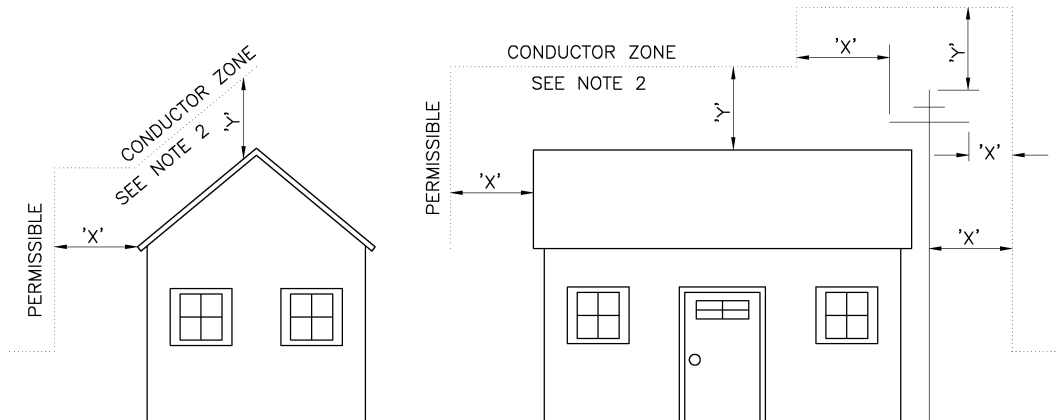


FIG.1

MINIMUM VERTICAL AND HORIZONTAL CLEARANCES FROM BUILDINGS

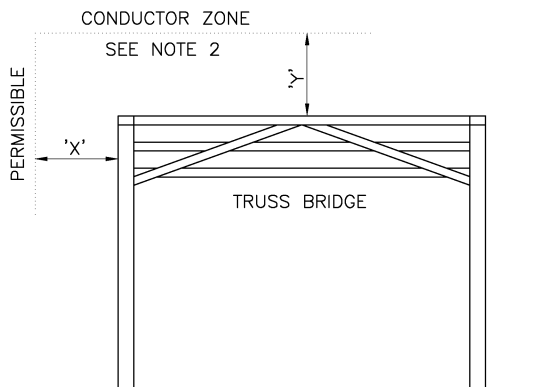


FIG.2

MINIMUM VERTICAL AND HORIZONTAL CLEARANCES FROM OTHER PERMANENT STRUCTURES TYPICAL – TRUSS BRIDGE

NOTES:

1. UNDER NO CIRCUMSTANCES SHALL A CONDUCTOR BE PERMITTED TO PENETRATE THE ENVELOPE SHOWN BY THE DOTTED LINE "PERMISSIBLE CONDUCTOR ZONE"
2. DO NOT ROUTE CONDUCTORS OVER STRUCTURES BY DESIGN. IF ENCROACHMENT ON THE MINIMUM HORIZONTAL CLEARANCE ('X') IS UNAVOIDABLE, THE MINIMUM VERTICAL CLEARANCE ('Y') SHALL APPLY.
3. CLEARANCES ARE MEASURED FROM THE FURTHEST EXTENT OF THE STRUCTURE, INCLUDING PERMANENT ATTACHMENTS TO THE BUILDINGS, SUCH AS BALCONIES, FIRE ESCAPES, CHIMNEYS AND ANTENNAS.
4. WHERE BUILDING ROOFS ARE NORMALLY USED BY PERSONS AND/OR VEHICLES (EX. MULTI-LEVEL GARAGES) THE VERTICAL CLEARANCES OF DL6-101-0500 SHALL APPLY.
5. WHERE BUILDINGS EXCEED 3 STOREYS OR 15m IN HEIGHT, MIN. HORIZONTAL CLEARANCE OF SECONDARY CONDUCTORS TO BE INCREASED TO 3m.

ALL DIMENSIONS IN CENTIMETRES UNLESS OTHERWISE STATED

Rev No.	Date	Revision-Particulars	dwn	chkd	des	app
04	NOV 2023	UPDATED MAIN FIGURE TO FIG.1. ADDED NEW FIGURE 2 AND UPDATED TABLE TO COVER THE TRUSS BRIDGE VERTICAL AND HORIZONTAL CLEARANCES.	PC	MM	AA	MM
03	JULY 2023	GENERAL UPDATES. ADDED THE VERTICAL CLEARANCE EXCEPTION OF 600V AND NEUTRAL. ADDED DEFINITION – NORMALLY INACCESSIBLE.	PC	XZ	XZ	MM

Drawn By: OC/BA	Checked By:	Designed By:	Design Approved By:
Scale: N.T.S.	Date: (yyyy/mm/dd) 2010/05/18	Pole ID:	

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MINIMUM VERTICAL AND HORIZONTAL CLEARANCES OF CONDUCTORS (NOT ATTACHED) FROM BUILDINGS OR OTHER PERMANENT STRUCTURES

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