

6

Part 6 - Low Voltage Overhead

DISTRIBUTION CONSTRUCTION STANDARDS HANDBOOK

HB01-2007

### **Drawing Register**

Number	Revision	Description				
L01	E	LV Intermediate Deviation 0 to 2°				
L02	E	LV Intermediate Deviation 2 - 20°				
L03	E	Inline Strain or Angle 21 - 40°				
L05	D	Termination				
L06	E	L.V. Isolators Underslung				
L07	D	Two Cross-arms				

#### **General Notes**

Clearances of conductors from ground, other structures and other conductors shall be undertaken in accordance with Distribution Overhead Line Design Manual – Clearances chapter, EDM 29636820.

The low voltage neutral shall be continuous at all times, including where low voltage isolation is provided as indicated in drawing L06 and terminations as shown in L03.

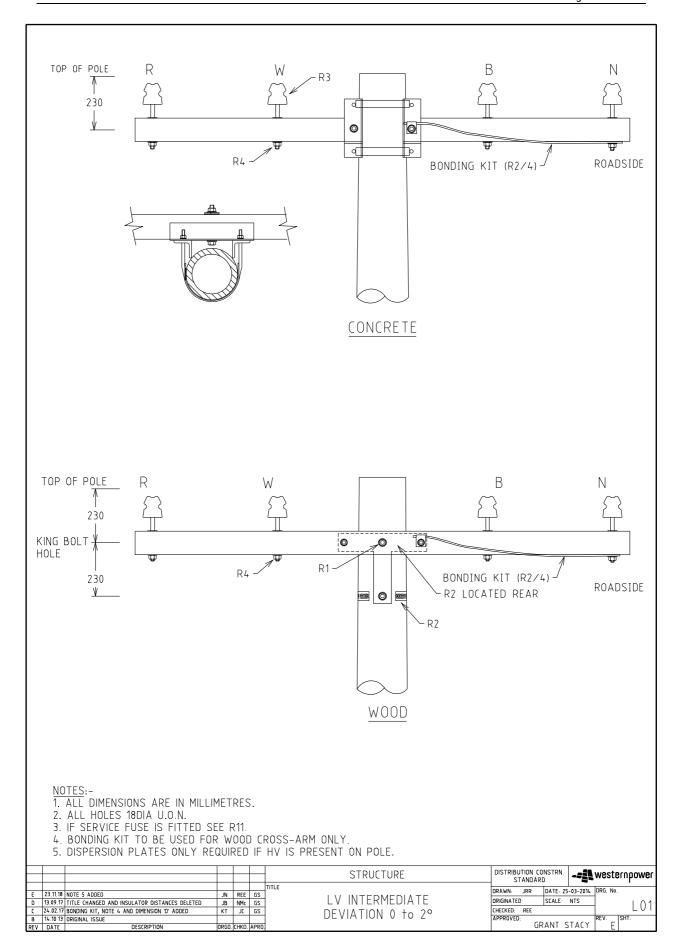
All aerial connections shall be undertaken by mechanical means, hand splicing is not acceptable. Any in-line service extensions shall match the existing conductor size unless otherwise rated for connected load.

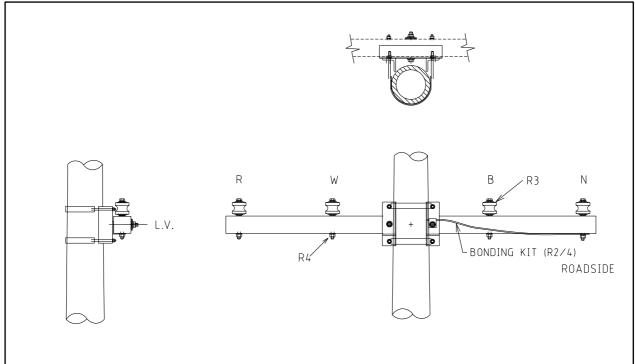
All poles supporting transposed open aerial conductors must be identified. Approved 'LV Transposed' signs must be attached on the roadside of the pole; refer to the Distribution Equipment Labelling Standard (DELS), EDM 25433005. A transposed sign may also indicate incorrect phase positions.

No LV bonding wire or dispersion plates on LV required if only LV on structure or HV with running earth present.

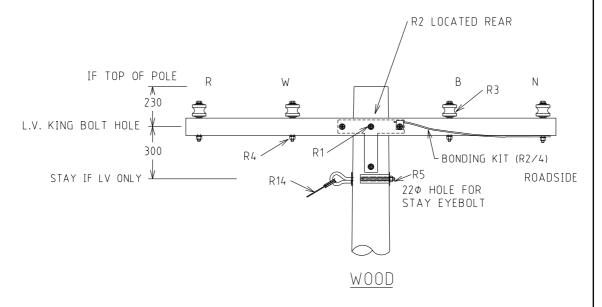
## **Low Voltage Spreaders**

All LV spreader requirements shall be as detailed in the Low Voltage Spreaders Standard, EDM 27665827.





# CONCRETE



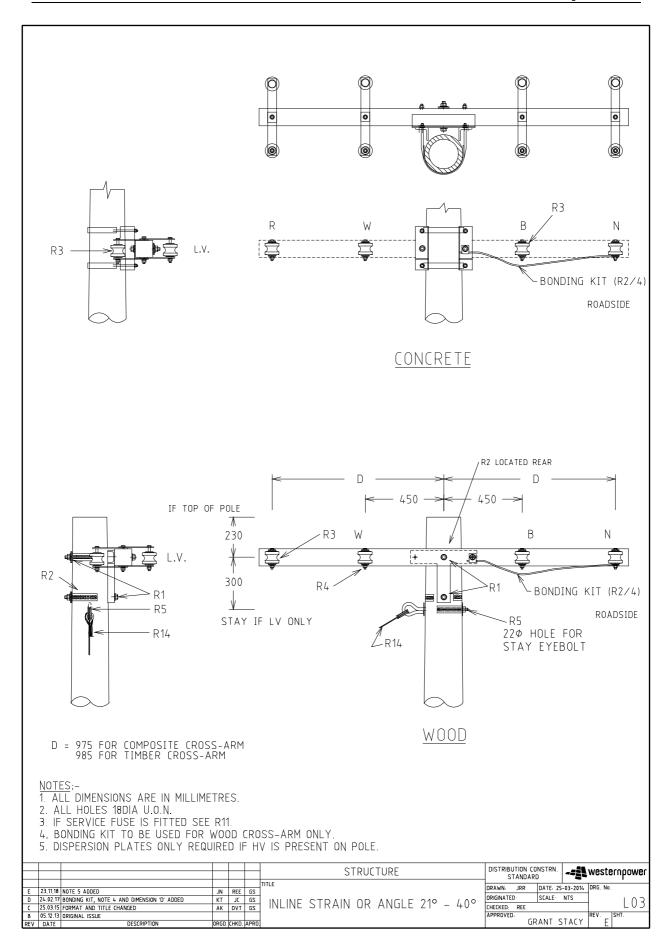
- NOTES:
  1. ALL DIMENSIONS ARE IN MILLIMETRES.

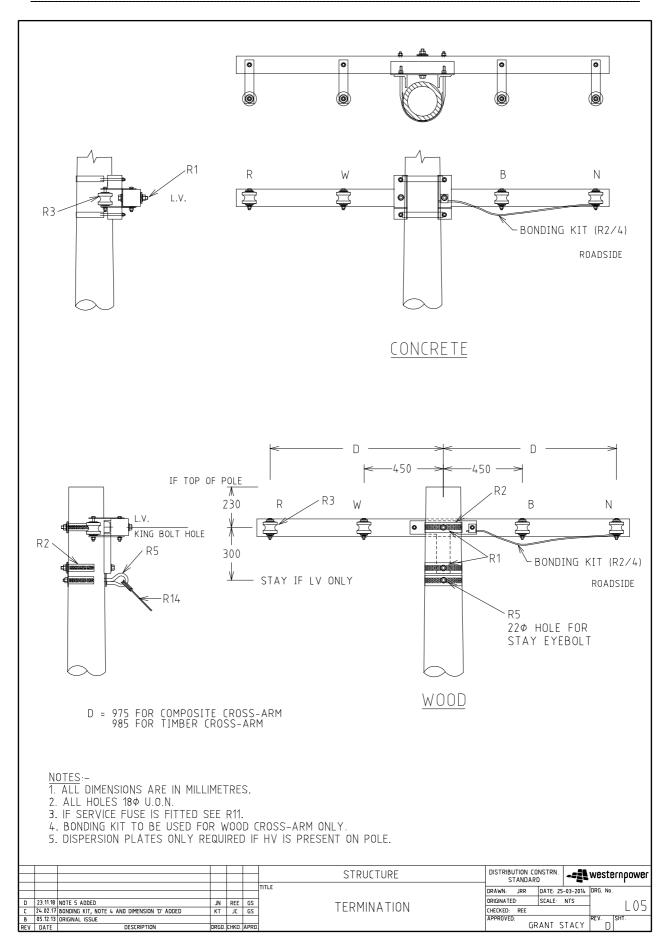
- 2. ALL HOLES 18DIA U.O.N.
  3. IF SERVICE FUSE IS FITTED SEE R11.
  4. IF EXTRA CLEARANCE REQUIRED DISTANCE CAN BE REDUCED TO 600mm

  5. BONDING KIT TO BE USED FOR WOOD CROSS-ARM ONLY.

  6. DISPERSION PLATES ONLY REQUIRED IF HV IS PRESENT ON POLE.

						STRUCTURE	DISTRIBUTION CONSTRN. STANDARD		<b>-==</b> westernpower			
L_			L .			TITLE	DRAWN: JRR	DATE: 25-	-03-2014	DRG. No.		
E	23.11.18	NOTE 6 ADDED	JN	REE G		I V INTERMEDIATE						
D	13.09.17	TITLE CHANGED AND INSULATOR DISTANCES DELETED	JB	NMc	GS	LV INTERMEDIATE	ORIGINATED:	SCALE	NTS	102		
С	24.02.17	BONDING KIT, DIMENSION 'D' AND NOTES 5 ADDED		JC	GS	DEVIATION 2° - 20° CHECKED: REE LAPPROVED.				LUZ		
В	05.12.13	ORIGINAL ISSUE				DLVIATION Z - ZV	APPROVED:		T	REV. SHT.		
REV	DATE	DESCRIPTION	ORGO.	CHKD.	APRO		UH	RANT S	TACY	L L		





# CONCRETE POLE R3 Ν ROADSIDE BONDING KIT (R2/4) WOOD POLE R2 LOCATED REAR R2 R В Ν W • ROADSIDE BONDING KIT (R2/4) UNDER TRANSFORMER ,R2 LOCATED REAR - R2 L.V. ROADSIDE • BONDING KIT (R2/4) NOTES:-1. ALL HOLES 18DIA U.O.N. 2. IF SERVICE FUSE IS FITTED SEE R11. 3. THE NEUTRAL MUST ALWAYS BE CONTINUOUS INCLUDING POLES WHERE ISOLATORS ARE FITTED. 4. BONDING KIT TO BE USED FOR WOOD CROSS-ARM ONLY. 5. DISPERSION PLATES ONLY REQUIRED IF HV IS PRESENT ON POLE. DISTRIBUTION CONSTRN. STANDARD STRUCTURE **-=**■ westernpower E 23.11.18 NOTE 5 ADDED 0 09.08.17 LV UNDERSLUNG SWITCH REVISED C 24.02.17 BONDING KIT AND NOTE 4 ADDED B 05.12.13 ORIGINAL ISSUE DESCRIP TITLE JRR DATE: 25-03-2014 DRG. DRAWN: JN REE GS REE JC GS KT JC GS ORIGINATED: SCALE NTS L.V. ISOLATORS UNDERSLUNG L06 CHECKED: REE APPROVED:

GRANT STACY

