Western Power's Asset Management System

Distribution Construction
Standard Handbook
Low Voltage Aerial Bundled Cable
Part 07 (A)



Original Issue: November 2003

Content Owner/Custodian: Distribution Design and Standards

This Revision: 1 - April 2025

Date for Next Review: April 2028

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Document control

Endorsement approvals

	Name	Title	Signature and Date		
Compiled by	Nory Cerrado	Distribution Draftsperson	Signature on file		
Checked by	Chris Omodei	Principal Engineer	Signature on file		
Endorsed by	Ken Tiong	Team Leader	Signature on file		
Approved by	Pep Ngwenya	Distribution Design & Standards Manager	Signature on file		

Record of revisions

Revision No.	Date	EDM Version	Compiled by	Description
1	01/04/2025	9	Nory Cerrado	First Revision with new Format and 3 yearly review

This document gives direction to and influences the following documents.

Doc	Title of document
ALL CHAPTERS	DDC - DISTRIBUTION DESIGN CATALOGUE
ALL CHAPTERS	DCSH - DISTRIBUTION CONSTRUCTION STANDARD HANDBOOK
ALL CHAPTERS	DSPM - DISTRIBUTION SUBSTATION PLANT MANUAL

Stakeholders (people that were consulted when document was updated)

Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

Asset Operations - Customer Connection Services

Business and Customer Service - Customer Service

Notification list (people to be notified when document is updated)

Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

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Business and Customer Service – Customer Service



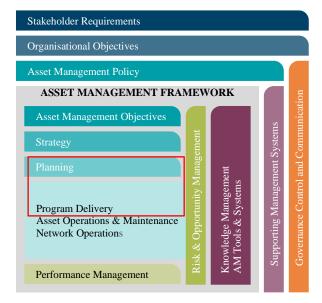
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Document classification and hierarchy

A key requirement of the Western Power Asset Management Policy (AMP) is to develop and maintain an Asset Management System (AMS). This Distribution Substation Plant Manual is defined as a technical document within the AMS document classification and structure and sits within the planning and Program Delivery components of the AMS.

The AMS and the interrelationships between the collection of documents, tools and systems that are used for asset management are described in the AMS document EDM# 40304923.





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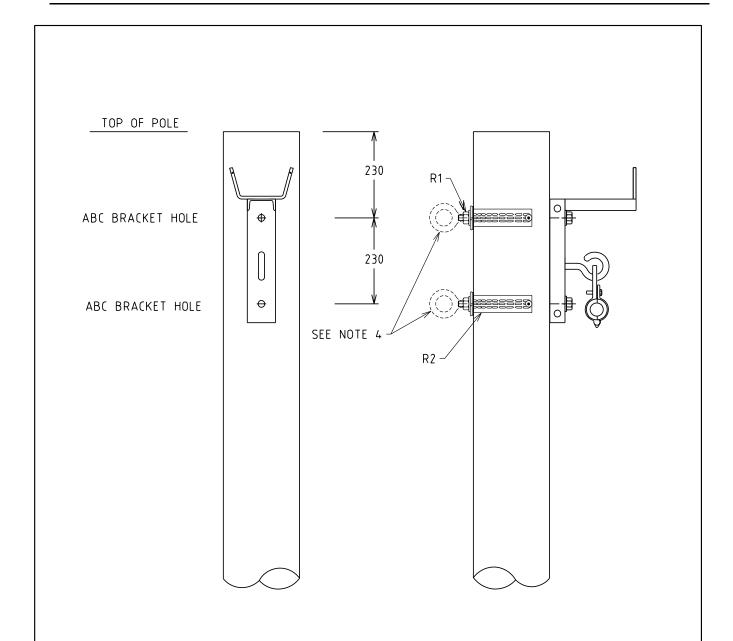
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Drawing Register

Number	Revision	Description
A01	С	Intermediate Angle, 0 - 25 degrees, Drilling detail
A02	С	Angle 26 - 50 degrees, Pole Details
A03-1	E	Termination Pole, ABC Details
A03-2	A	Termination – with or without fusing / isolation
A04-1	F	Strain - With or Without Fusing / isolation
A04-2	A	Strain - LV ABC to Bare With Fuse
A05	D	Tee Off, Drilling Details
A06	D	Tee Off, LV Bare to Fused ABC
A07	В	Tee Off, Bare to ABC
A10	A	In Span - Full Tension Joint



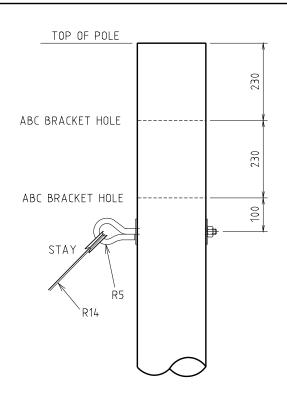


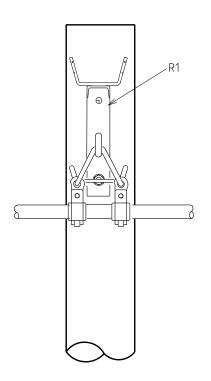
NOTES:-

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. ALL HOLES 18φ U.O.N.
- 3. DISPERSION PLATES ONLY REQUIRED IF HV IS PRESENT ON POLE. 4. EYEBOLTS MAY BE SUBSTITUTED FOR POLEBOLTS WHERE
- 4. EYEBOLTS MAY BE SUBSTITUTED FOR POLEBOLTS WHERE SERVICE WIRES ARE TO BE SUPPORTED ON THE OPPOSITE SIDE OF THE POLE.

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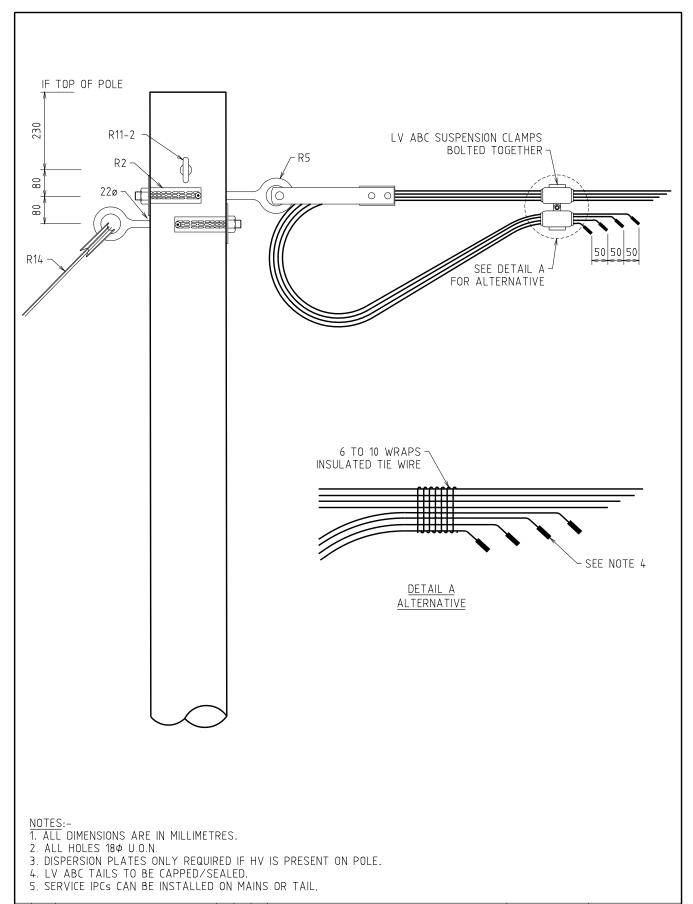


- 1. ALL DIMENSIONS ARE IN MILLIMETRES. 2. ALL HOLES 18 \$\psi\$ U.O.N.

- 3. REFER TO Dwg. R15 FOR FURTHER DETAILS OF POLE.
 4. DISPERSION PLATES ONLY REQUIRED IF HV IS PRESENT ON POLE.

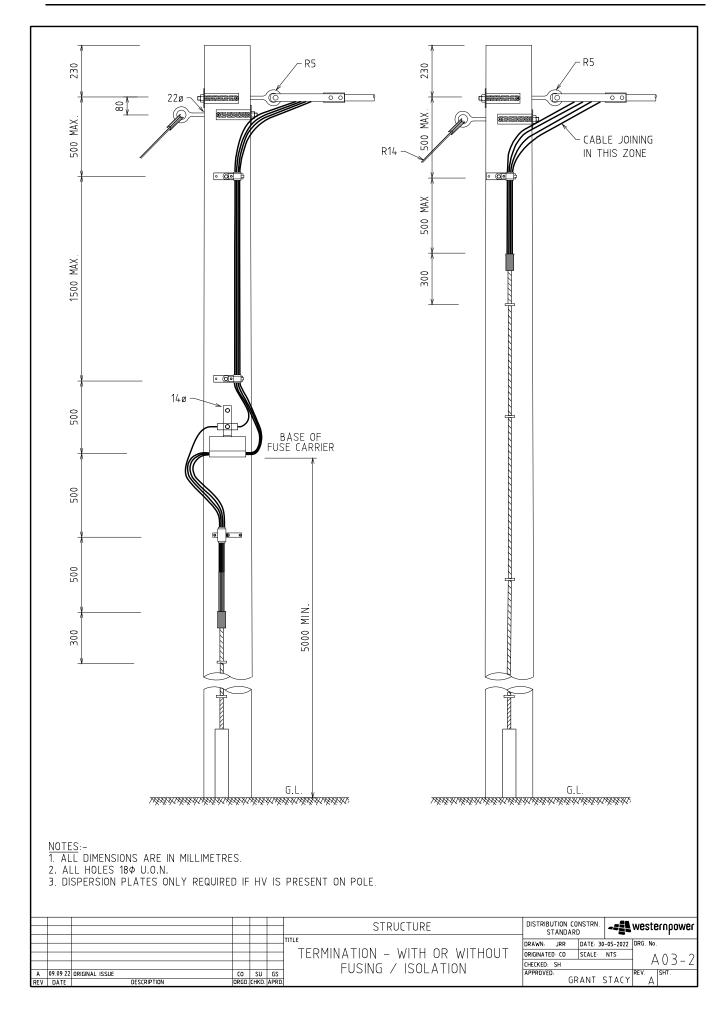
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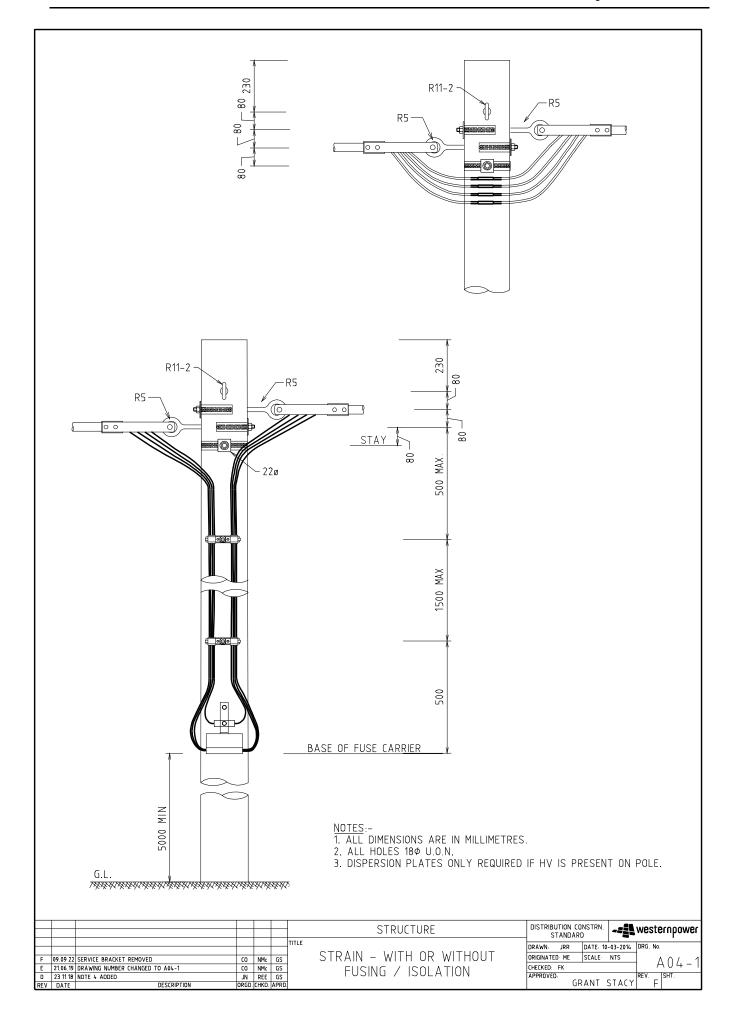


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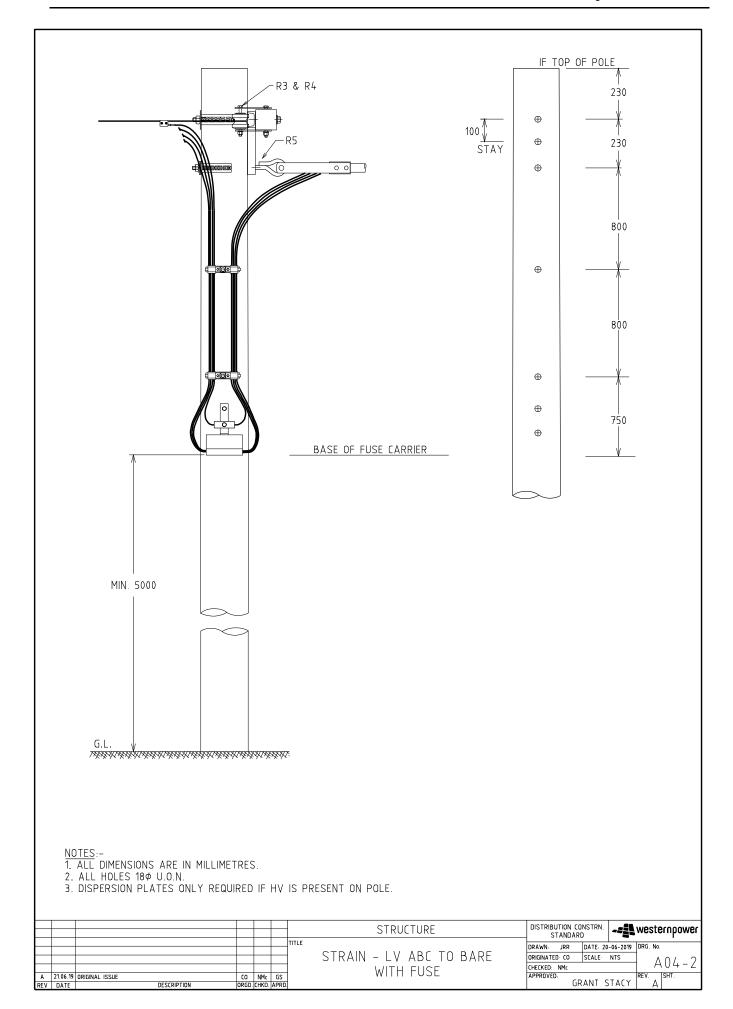




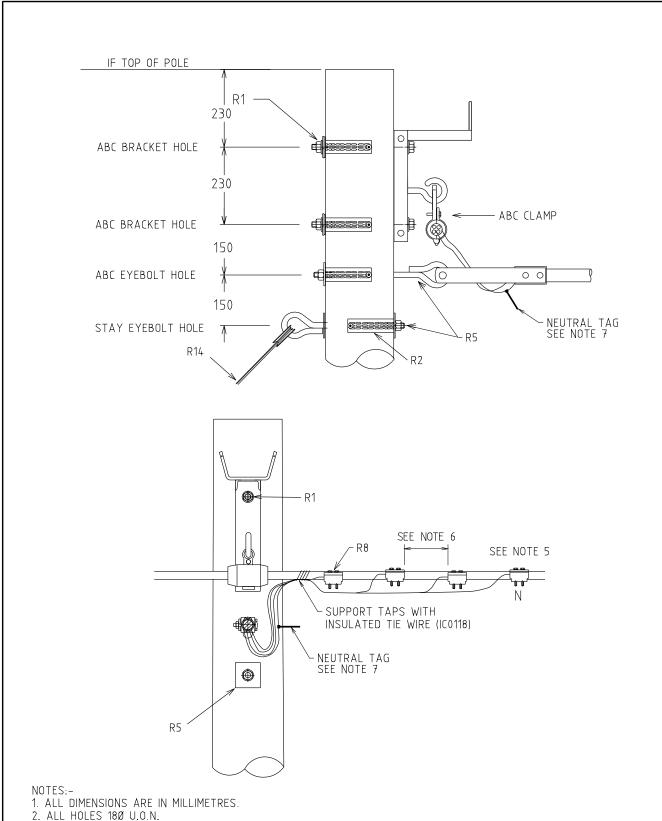








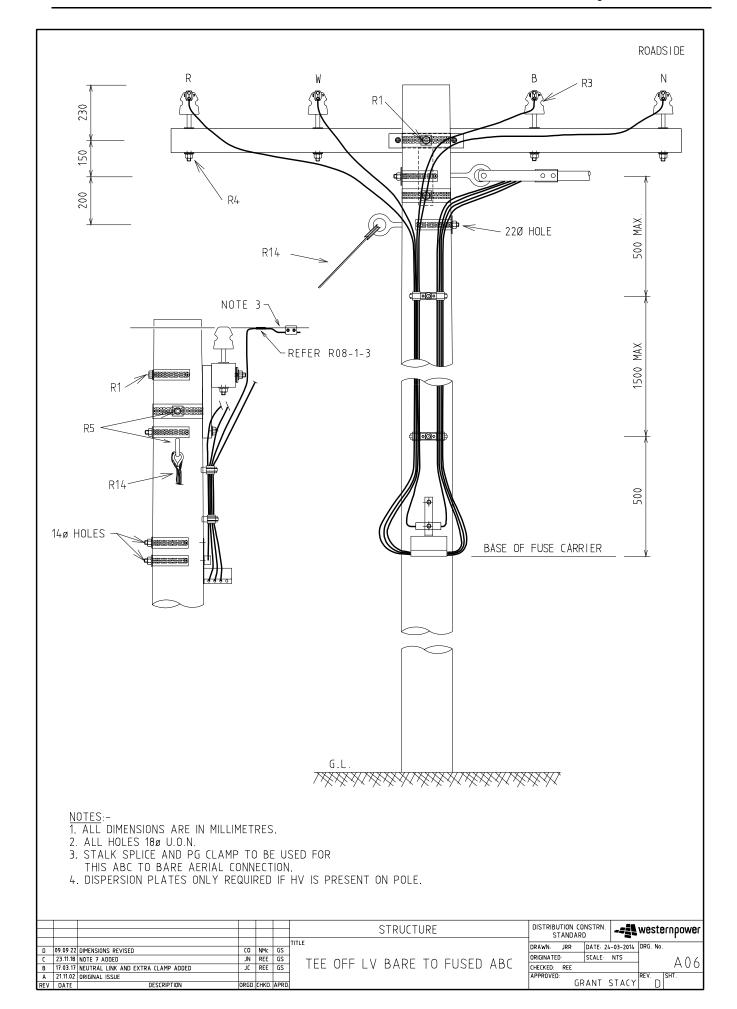




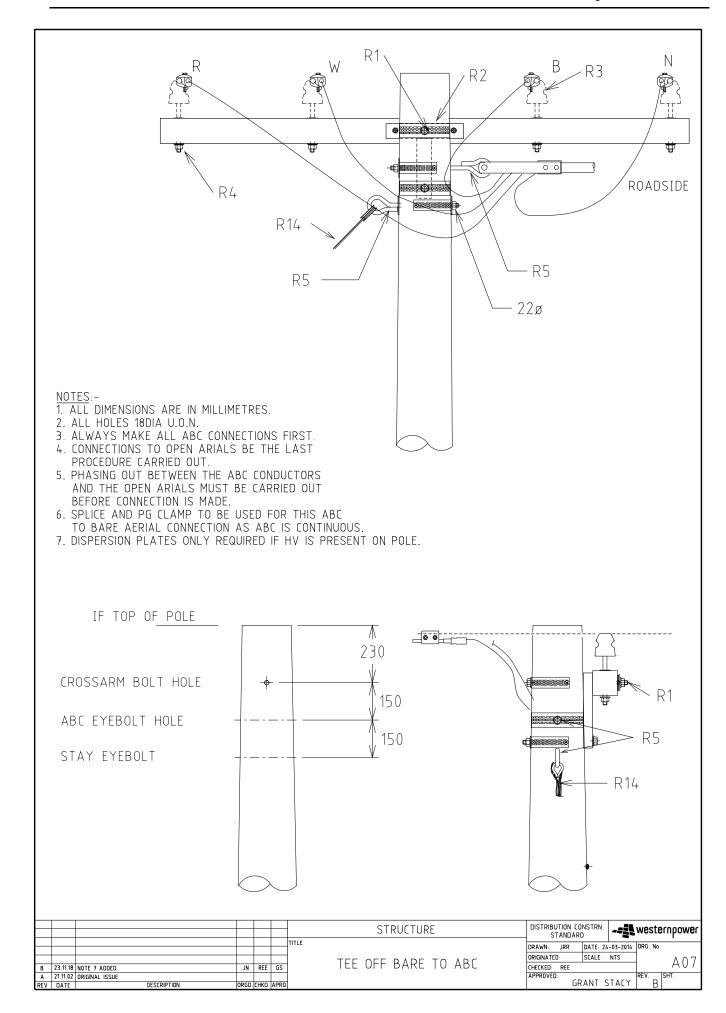
- 3. IPC ARE SINGLE USE ONLY (NOT TO BE RE-USED)
 4. DISPERSION PLATES ONLY REQUIRED IF HV IS PRESENT ON POLE.
- 5. NEUTRAL IPC INSTALLED FURTHERMOST FROM THE POLE.
- 6. 150mm BETWEEN IPC'S.
- 7. NEUTRAL TAG (HG2101) APPLIED WITHIN 300mm OF THE ABC TERMINATION CLAMP.

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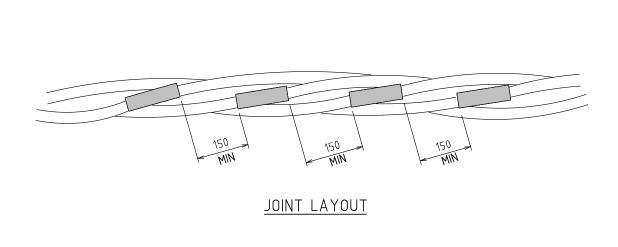


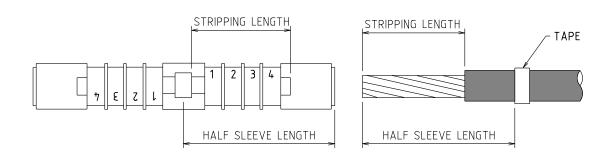












JOINT PREPARATION

- NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. ENSURE PHASES AND NEUTRAL ARE CORRECTLY MATCHED AND ORIENTED.
- 3. EACH CORE MUST BE CUT ACCURATELY TO ENSURE CORRECT BALANCE OF TENSIONS.
 3. MARK CABLE END WITH TAPE AT HALF SLEEVE LENGTH.
- 4. STRIP INSULATION AS SHOWN ON DRAWING.
- 5. INSERT CABLE INTO SLEEVE INSURING TAPE MARK IS WITHIN 1-2mm OF FULL PENETRATION.
- 6. CRIMP WITH APPROPRIATE DIE, IN SEQUENCE STARTING AT NUMBER 1.
- 7. DO NOT OVERLAP THE CRIMPS.

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