FILE REF.

A4

OHL 001	LIST OF DRAWINGS
OHL 002	LV BARE CONDUCTOR TANGENT POLE
OHL 003	LV BARE CONDUCTOR SINGLE/DOUBLE CIRCUIT ANGLE POLES
OHL 004	LV BARE CONDUCTOR SECTION POLES
OHL 005	LV BARE CONDUCTOR T-OFF LINE SIDE POLE
OHL 006	LV BARE CONDUCTOR T-OFF OPPOSITE SIDE POLE
OHL 007	LV BARE CONDUCTOR T-OFF SECTION POLE
OHL 008	LV BARE CONDUCTOR X-JUNCTION POLE
OHL 009	LV BARE CONDUCTOR INSULATOR, D-BRACKET AND SHACKLE STRAP
OHL 010	LV BARE CONDUCTOR CONNECTORS
OHL 011	LV BARE CONDUCTOR INTERMEDIATE BINDING
OHL 012	LV BARE CONDUCTOR SECTION BINDING
OHL 013	LV AERIAL BUNDLED CABLE FITTINGS
OHL 014	LV AERIAL BUNDLED CABLE INTERMEDIATE POLE
OHL 015	LV AERIAL BUNDLED CABLE ANGLE POLE
OHL 016	LV AERIAL BUNDLED CABLE TERMINAL POLE
OHL 017	LV/MV LINE FOUNDATION TYPES
OHL 018	LV/MV LINE MANUAL DIG CONCRETE FOUNDATION
OHL 019	LV/MV LINE AUGERED FOUNDATION
OHL 020	LV/MV LINE STAY ARRANGEMENT
OHL 021	MV LINE STANDARD BARE CONDUCTOR SUSPENSION POLE
OHL 022	MV LINE STANDARD COVERED CONDUCTOR SUSPENSION POLE
OHL 023	MV LINE STANDARD TENSION POLE
OHL 024	MV LINE STANDARD BARE CONDUCTOR COMBINED MV/LV POLE
OHL 025	MV LINE STANDARD COVERED CONDUCTOR COMBINED MV/LV POLE
OHL 026	MV LINE STANDARD STAYED POLE
OHL 027A	MV LINE AUTORECLOSER ARRANGEMENT
OHL 027B	MV LINE AUTORECLOSER ARRANGEMENT
OHL 028	MV LINE LOAD BREAK SWITCH ARRANGEMENT
OHL 029	MV/LV SUBSTATION TYPE "IN LINE"
OHL 030	MV/LV SUBSTATION TYPE "DEAD END"

MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LIST OF DRAWINGS

Drawn:
Checked:
Approved:
Date: 04/2026

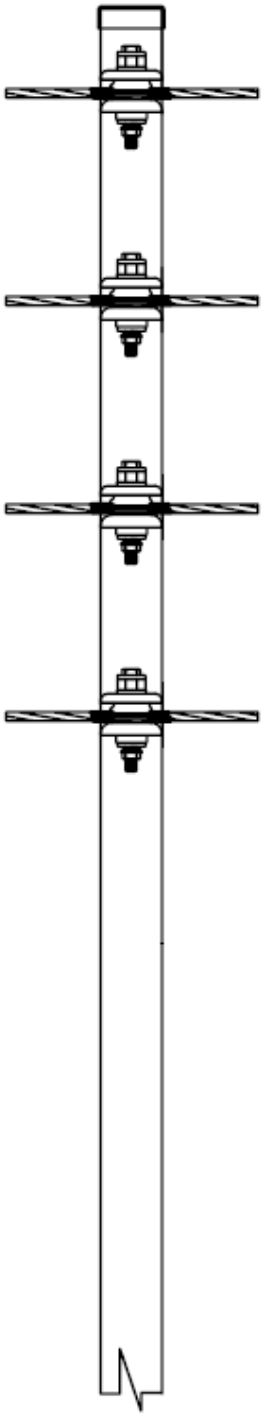
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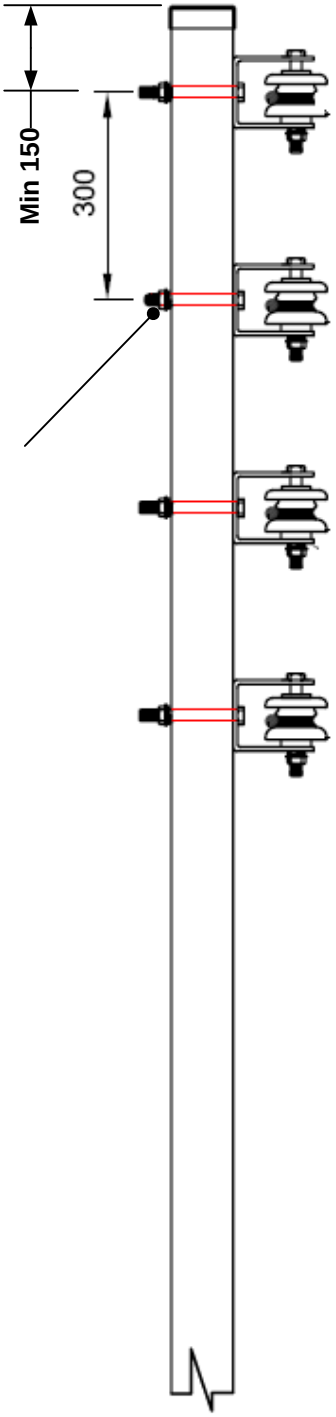
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Rev. *

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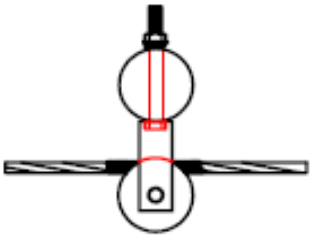
A4





For wooden poles M20 bolt through to suit + washer + square washer + nut

For concrete or metal poles use D bracket holder attached by 2 stainless steel straps



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
TANGENT POLE

Drawn:
Checked:
Approved:
Date: 04/2026

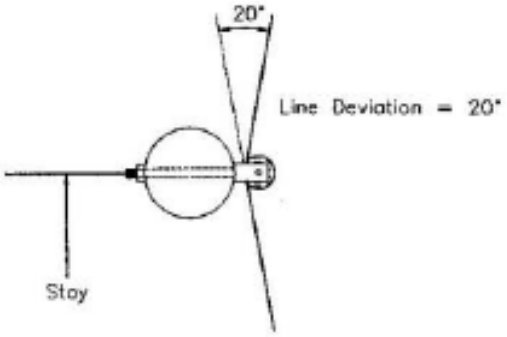
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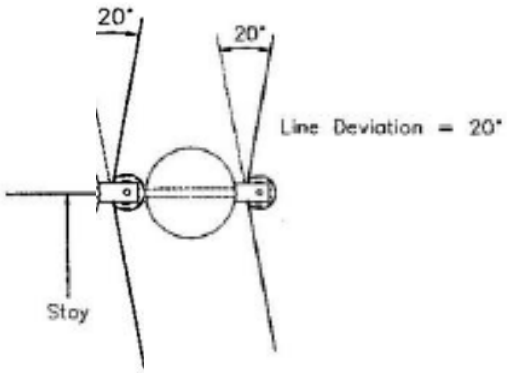
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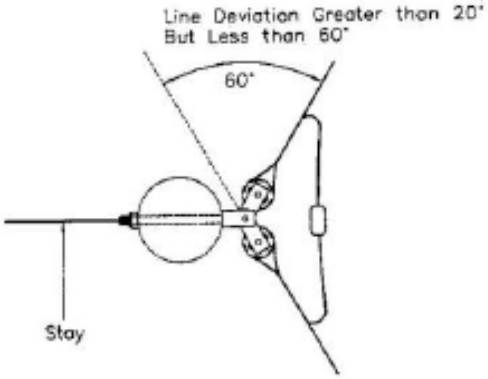
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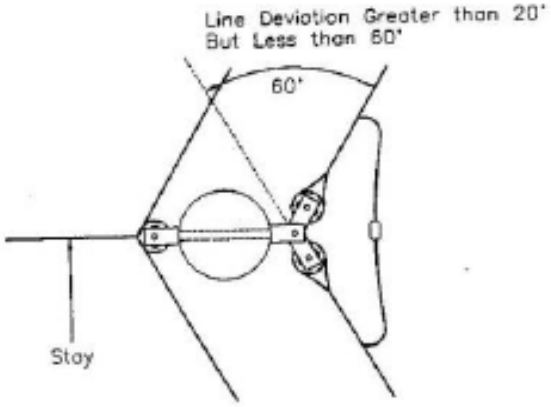
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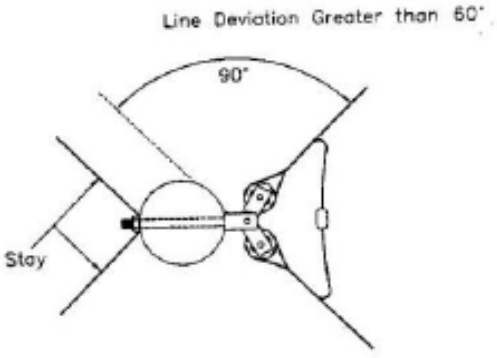
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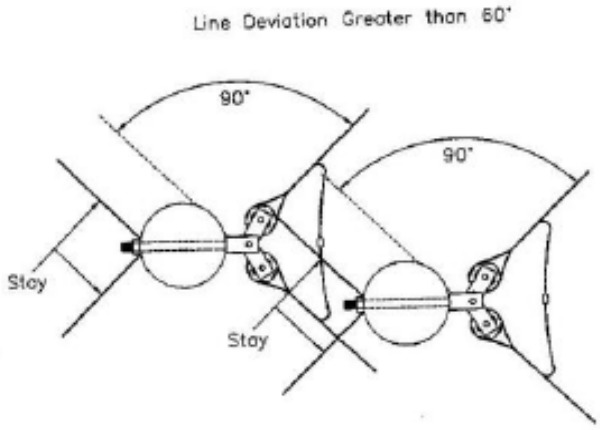












SINGLE CIRCUIT SCHEMES

DOUBLE CIRCUIT SCHEMES

MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
SINGLE/DOUBLE CIRCUIT ANGLE POLES

Drawn:
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Date: 04/2026

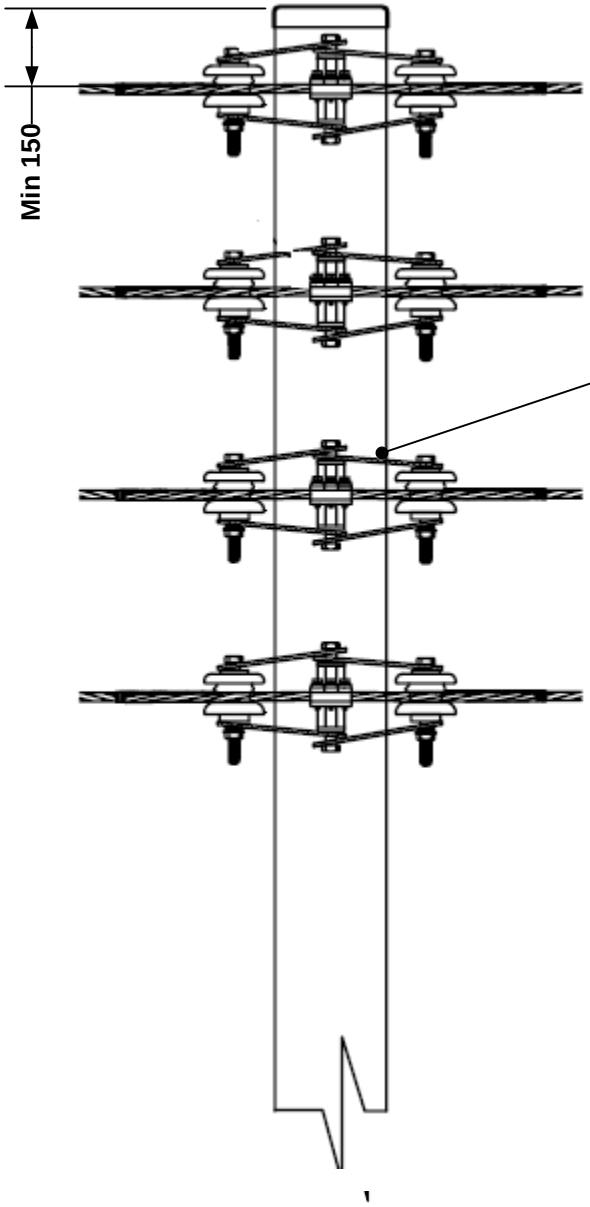
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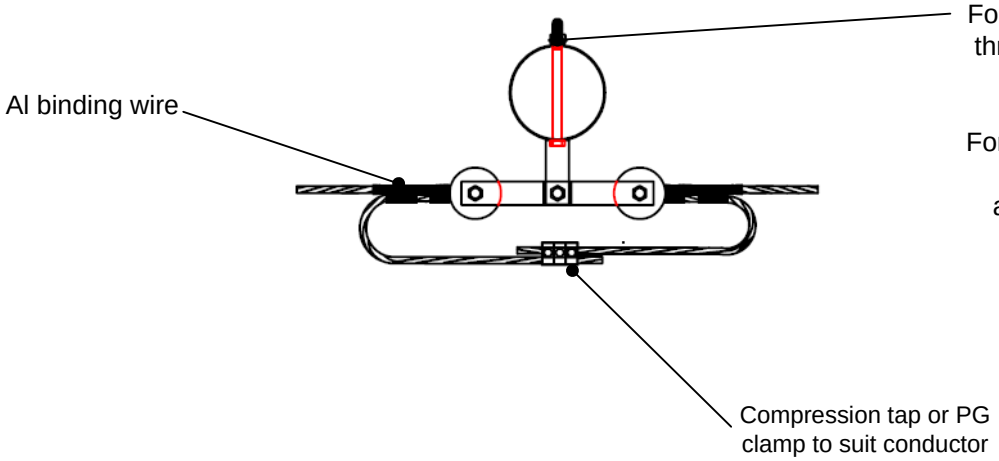
Drawing No. OHL 003

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MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
SECTION POLES

Drawn:
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Approved:
Date: 04/2026

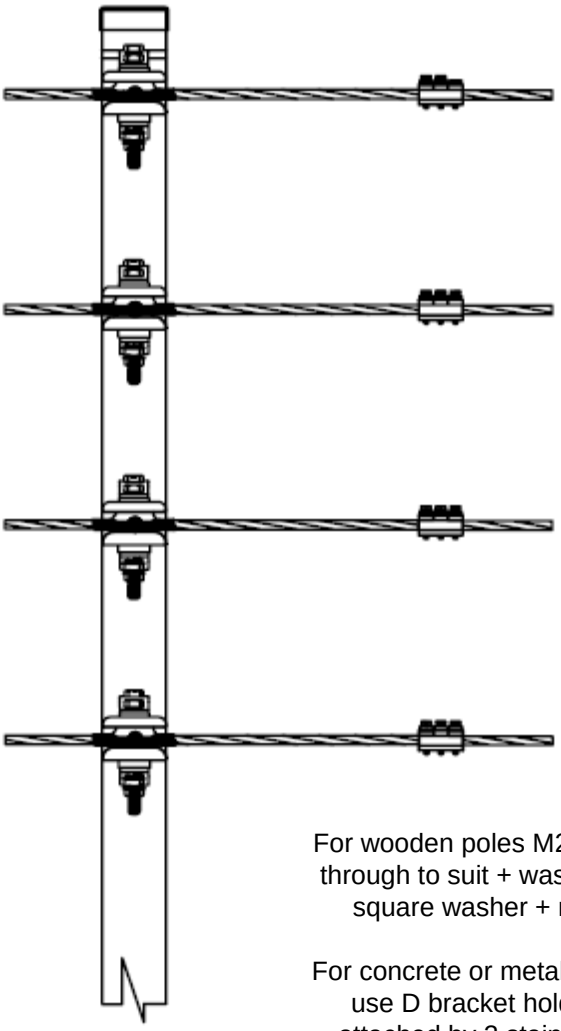
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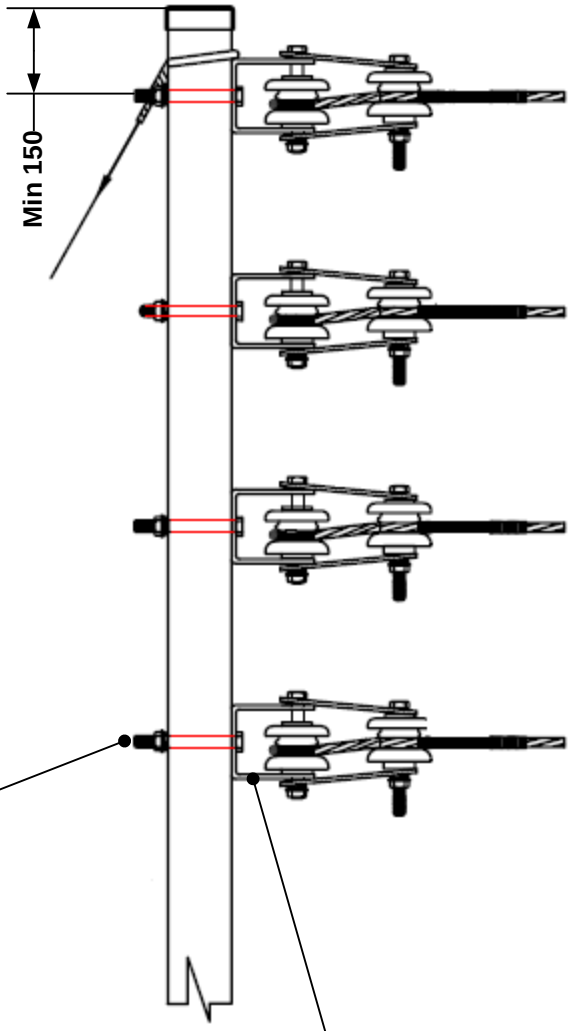
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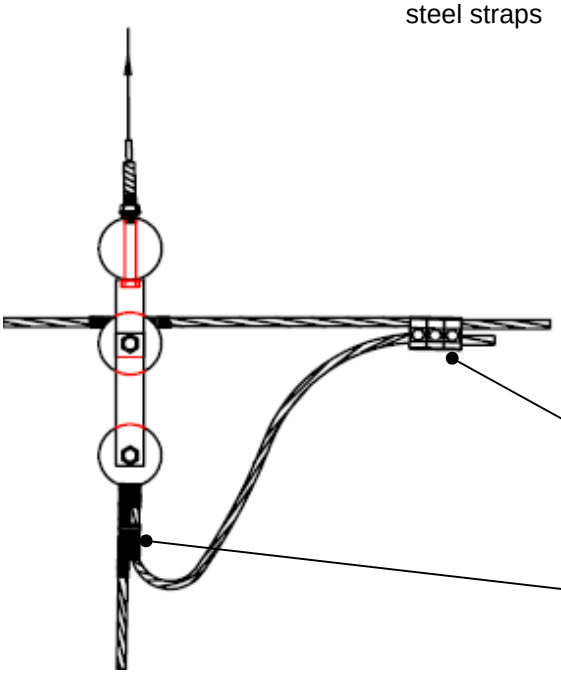




For wooden poles M20 bolt through to suit + washer + square washer + nut

For concrete or metal poles use D bracket holder attached by 2 stainless steel straps

Combination consisting of 1 D bracket + 1 pairs of shackle straps



Compression tap or PG clamp to suit conductor

Al binding wire

MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
T-OFF LINE SIDE POLE

Drawn:
Checked:
Approved:
Date: 04/2026

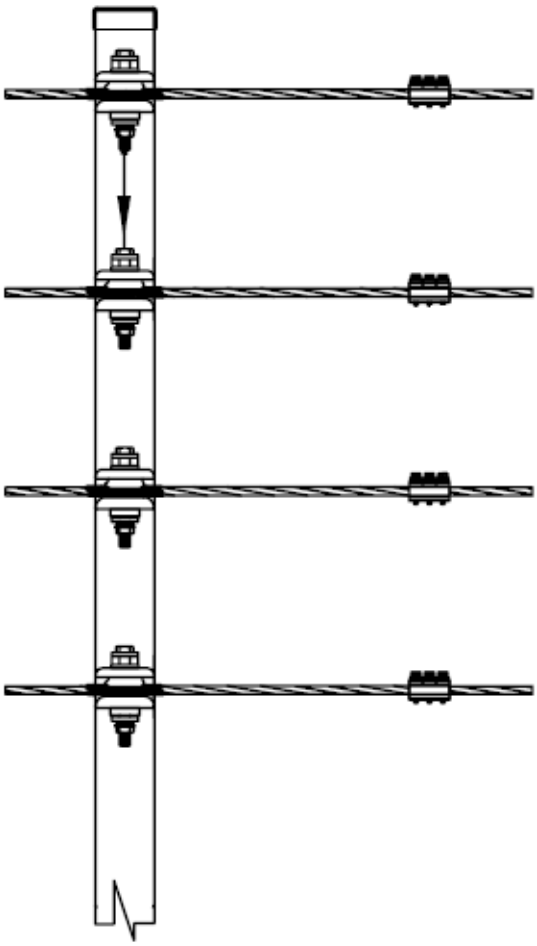
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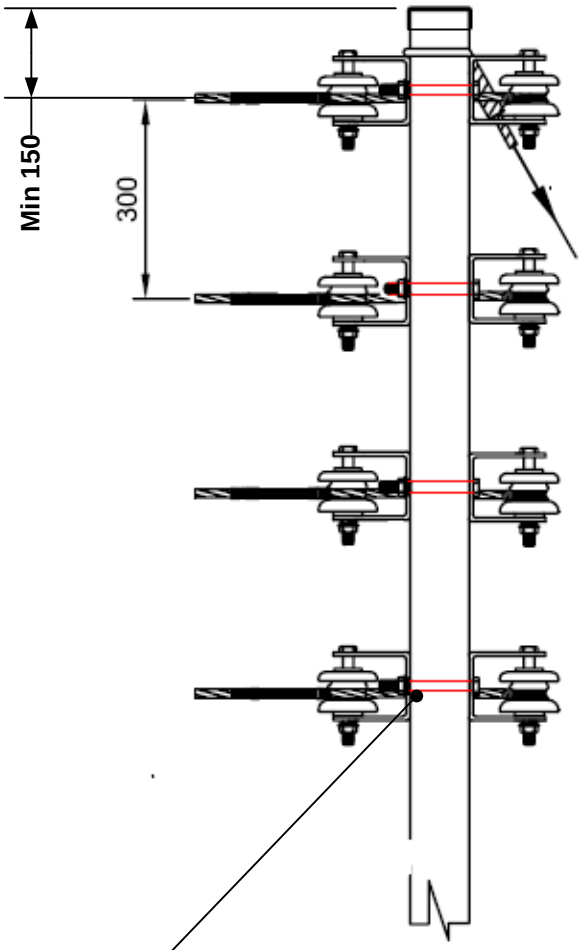
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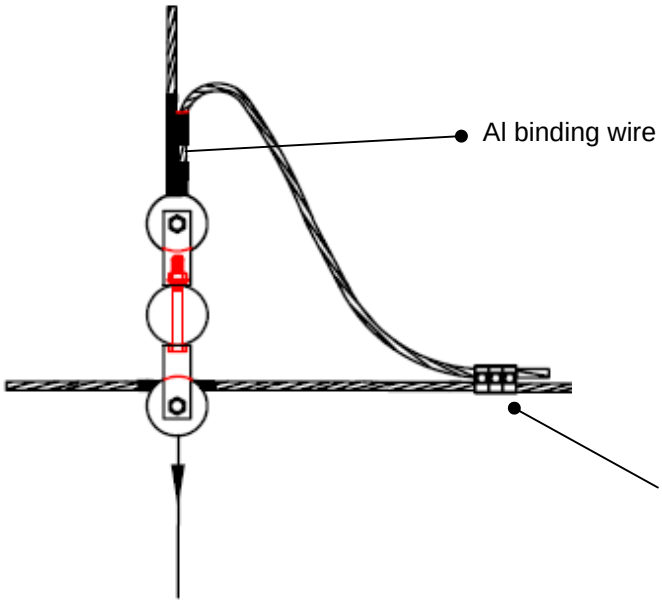
A4





For wooden poles M20 bolt through to suit + washer + nut

For concrete or metal poles use 2 D bracket holders attached by 2 stainless steel straps



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
T-OFF OPPOSITE SIDE POLE

Drawn:
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Date: 04/2026

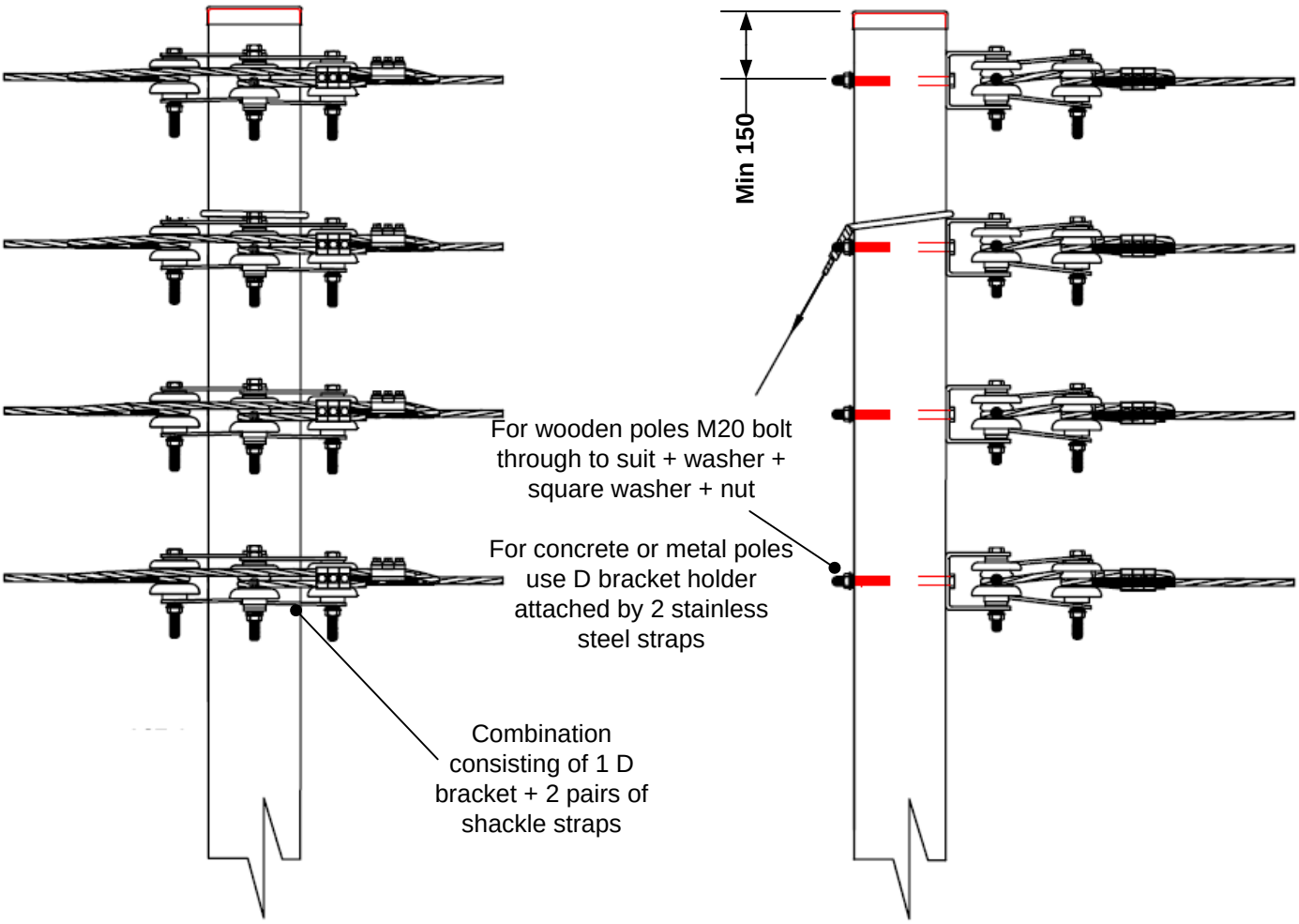
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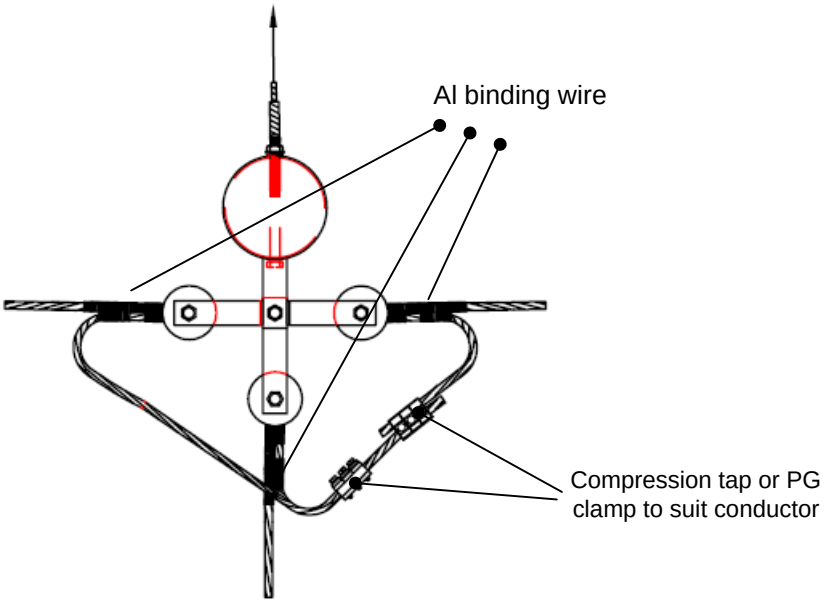
Drawing No. OHL 006

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MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
T-OFF SECTION POLE

Drawn:
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Date: 04/2026

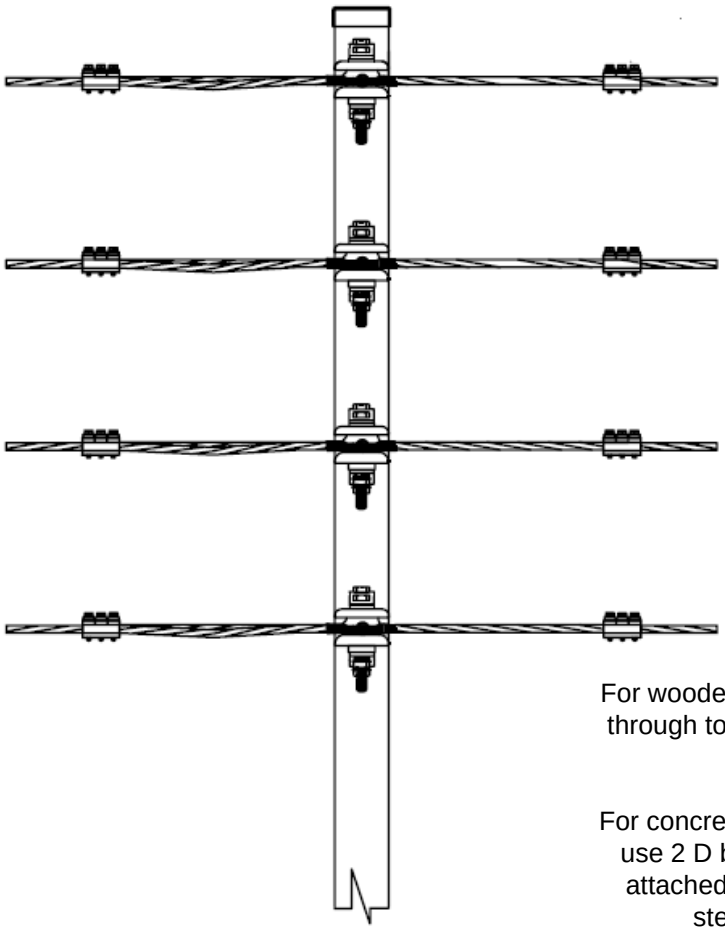
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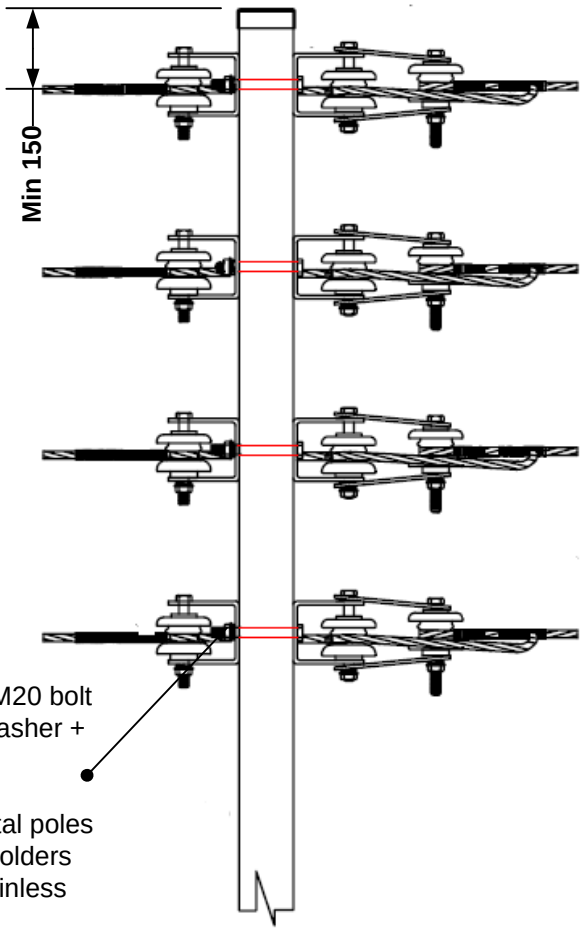
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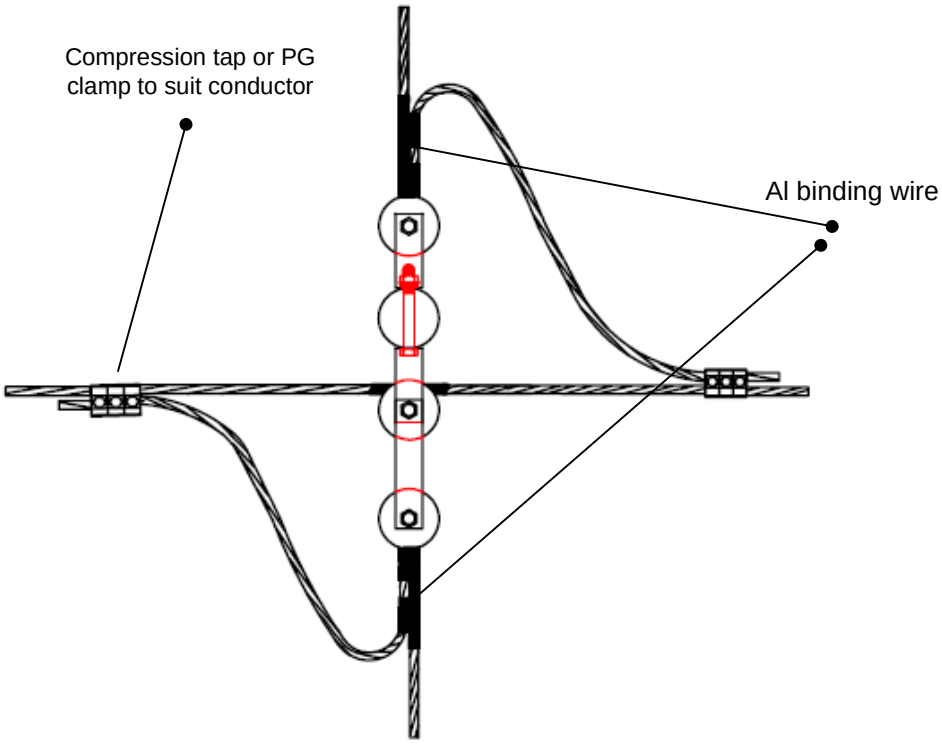
A4





For wooden poles M20 bolt through to suit + washer + nut

For concrete or metal poles use 2 D bracket holders attached by 2 stainless steel straps



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
X-JUNCTION POLE

Drawn:
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Date: 04/2026

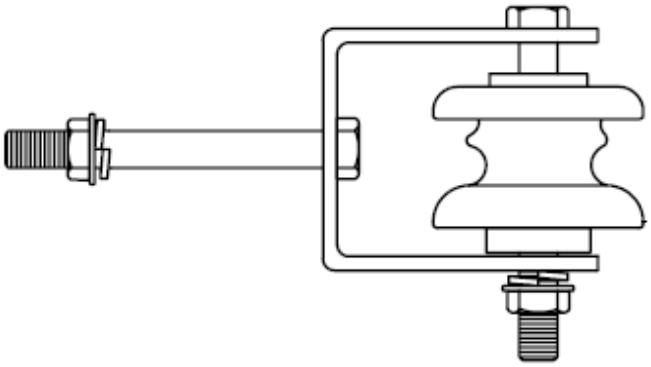
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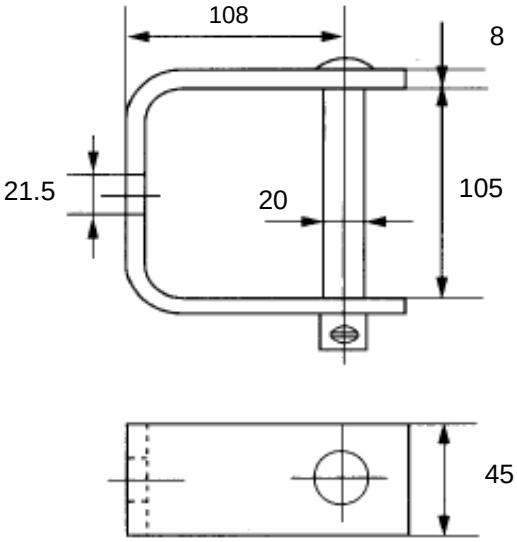
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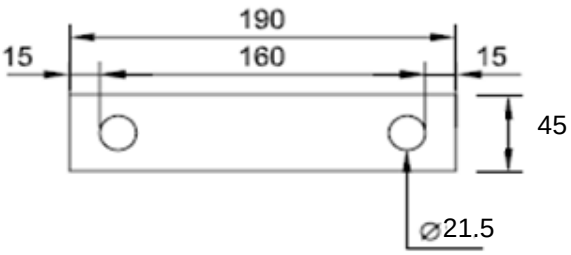
Rev. *

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MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
INSULATOR, D-BRACKET& SHACKLE STRAP

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Date: 04/2026

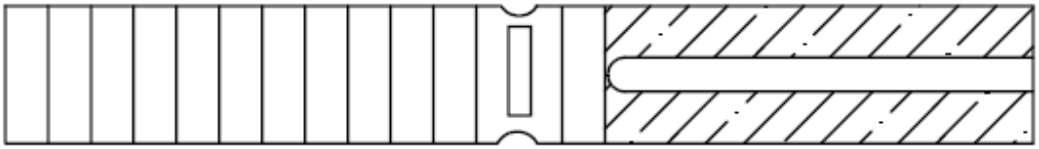
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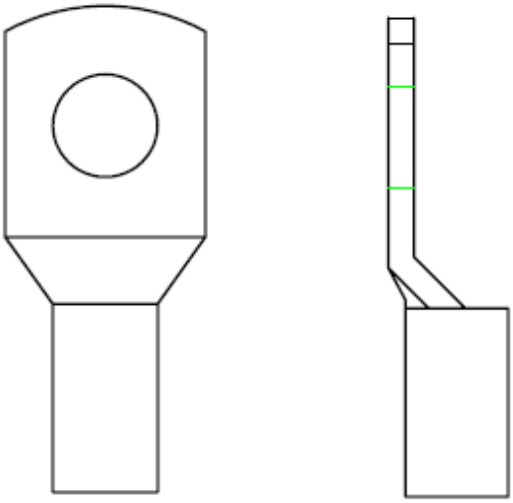
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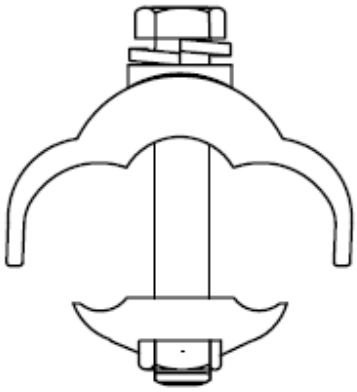
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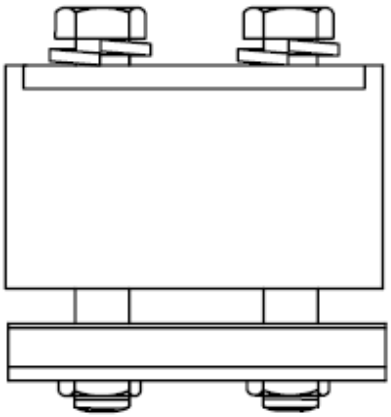
FULL TENSION JOPINT



CABLE LUG

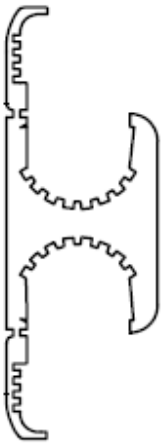


PG CLAMP
(may be tap off reduction
PG clamp)





TAP OFF
(MAY BE
DIFFERENT
SHAPE)



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
CONNECTORS

Drawn:
Checked:
Approved:
Date: 04/2026

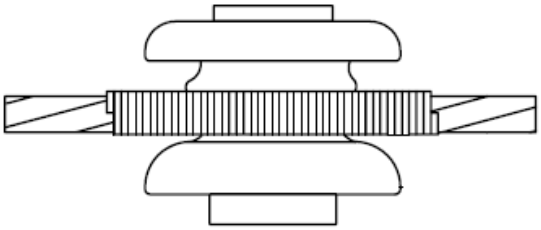
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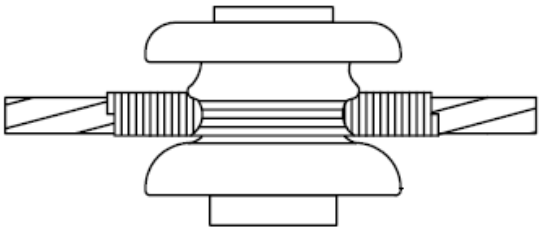
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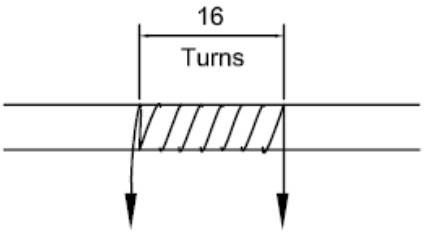
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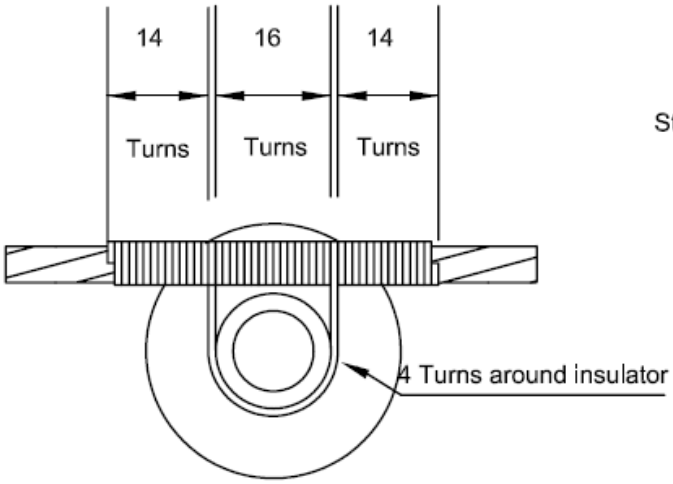
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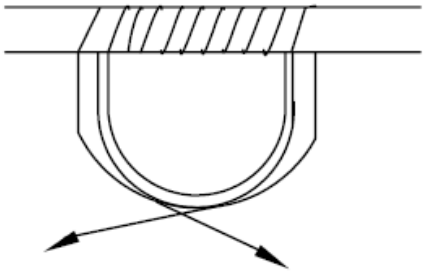




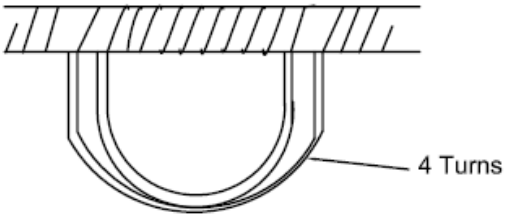
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Stage 2



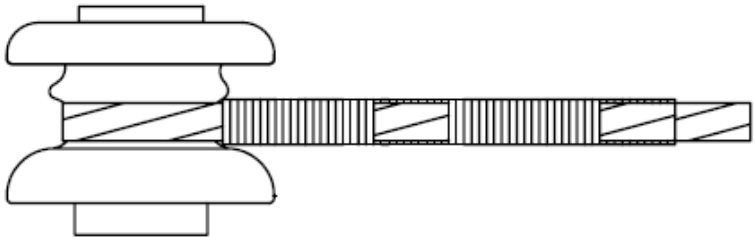
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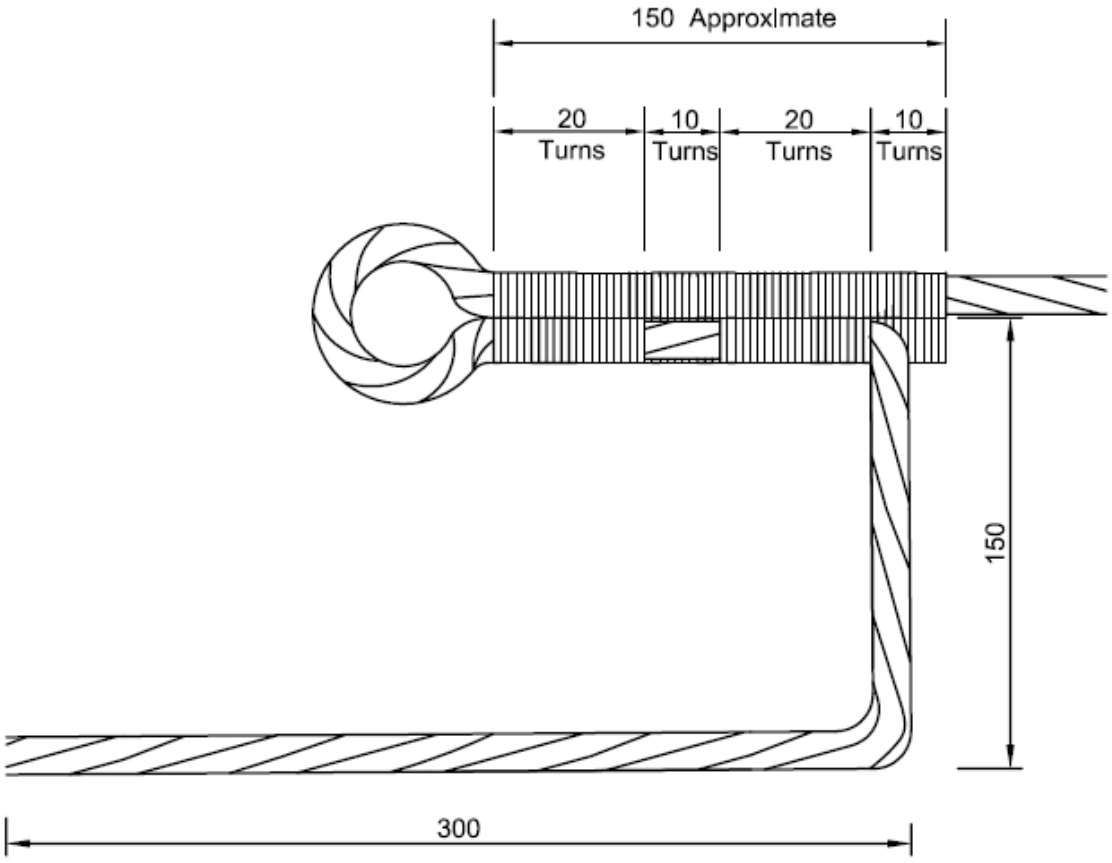


MV/LV OVERHEAD LINE CONSTRUCTION MANUAL			
LOW VOLTAGE BARE CONDUCTOR INTERMEDIATE BINDING	Drawn: Checked: Approved: Date: 04/2026	Scale: NOT TO SCALE Drawing No. OHL 011	Rev. *

FILE REF.

A4





MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LOW VOLTAGE BARE CONDUCTOR
SECTION BINDING

Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

Drawing No. OHL 012

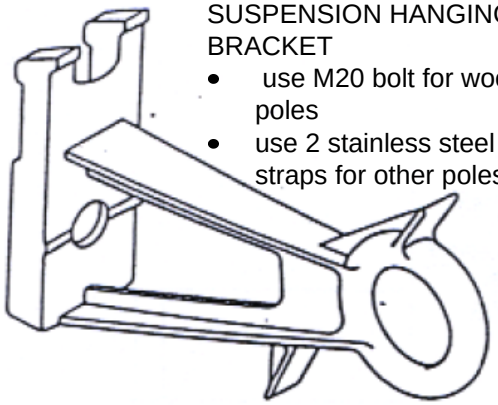
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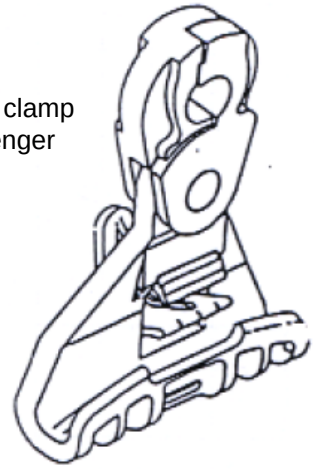
A4

SUSPENSION HANGING BRACKET

- use M20 bolt for wooden poles
- use 2 stainless steel straps for other poles

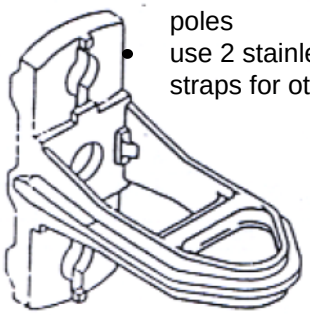


Suspension clamp (for messenger only)

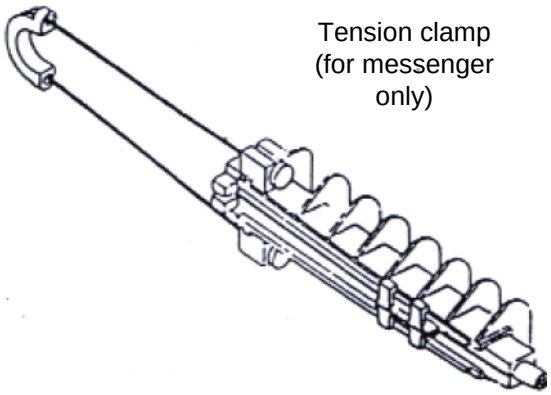


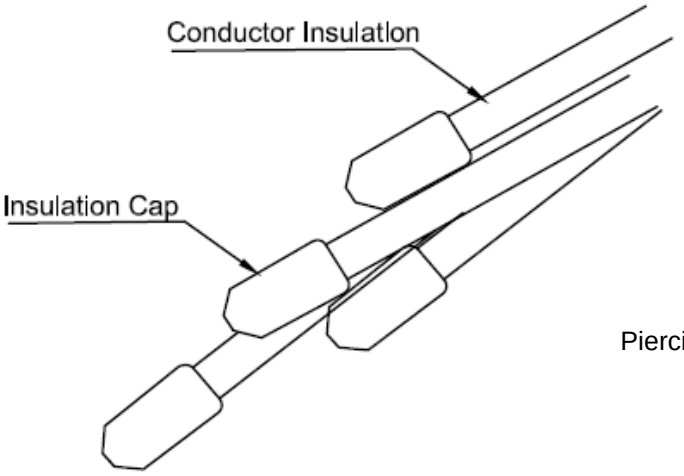
TENSION BRACKET

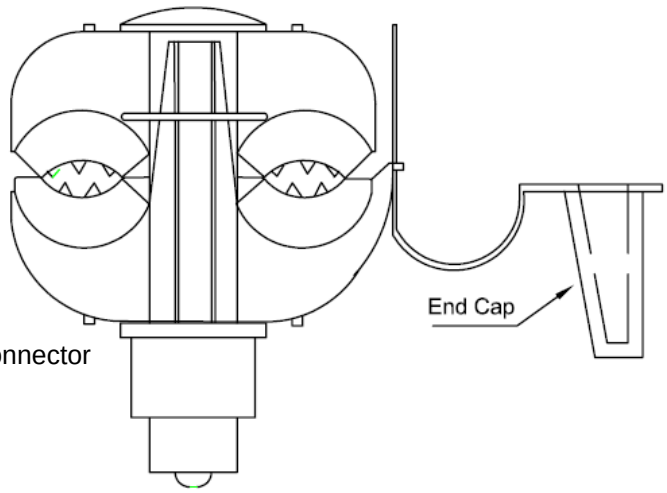
- use M20 bolt for wooden poles
- use 2 stainless steel straps for other poles



Tension clamp (for messenger only)







Piercing connector

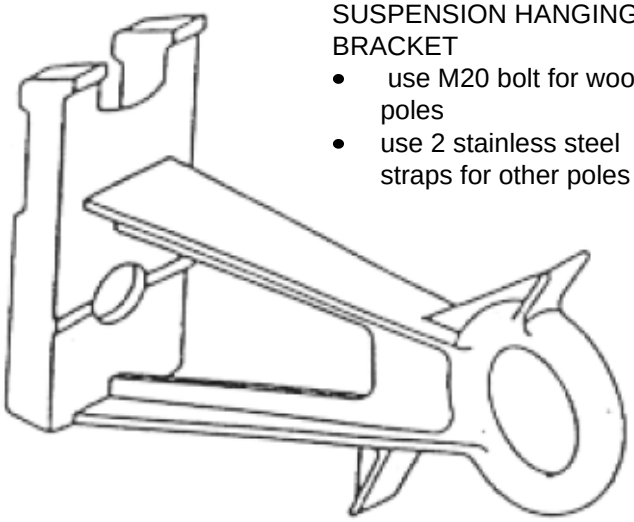
MV/LV OVERHEAD LINE CONSTRUCTION MANUAL			
LOW VOLTAGE AERIAL BUNDLED CABLE FITTINGS	Drawn: Checked: Approved: Date: 04/2026	Scale: NOT TO SCALE Drawing No. OHL 013	Rev. *

FILE REF.

A4

SUSPENSION HANGING BRACKET

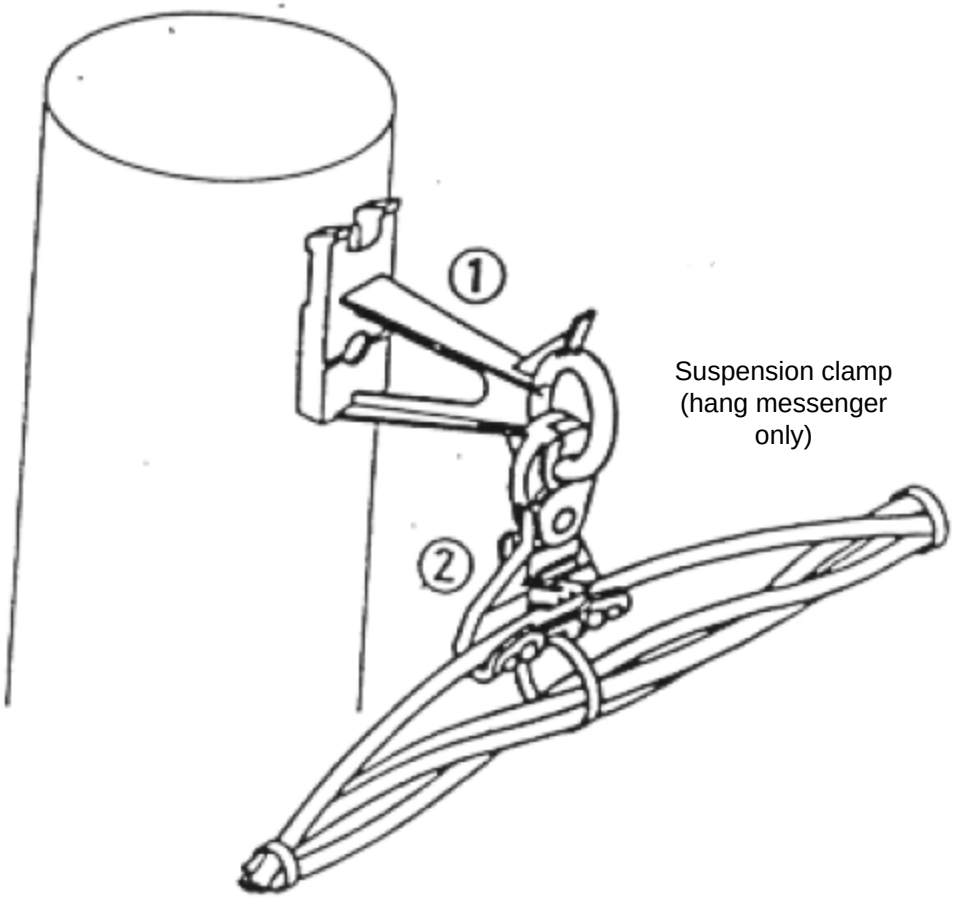
- use M20 bolt for wooden poles
- use 2 stainless steel straps for other poles



①



②



Suspension clamp (hang messenger only)

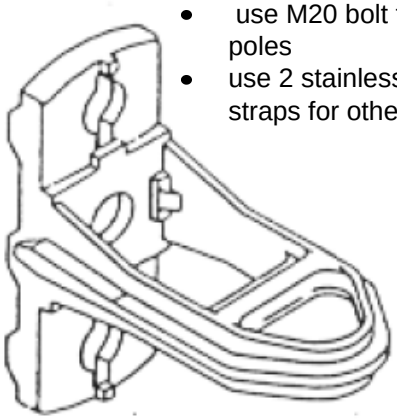
MV/LV OVERHEAD LINE CONSTRUCTION MANUAL			
LOW VOLTAGE AERIAL BUNDLED CABLE INTERMEDIATE POLE	Drawn: Checked: Approved: Date: 04/2026	Scale: NOT TO SCALE Drawing No. OHL 014	Rev. *

FILE REF.

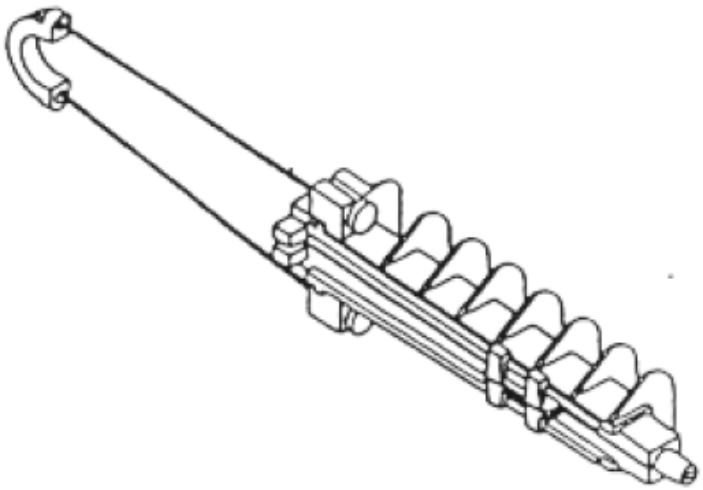
A4

TENSION BRACKET

- use M20 bolt for wooden poles
- use 2 stainless steel straps for other poles

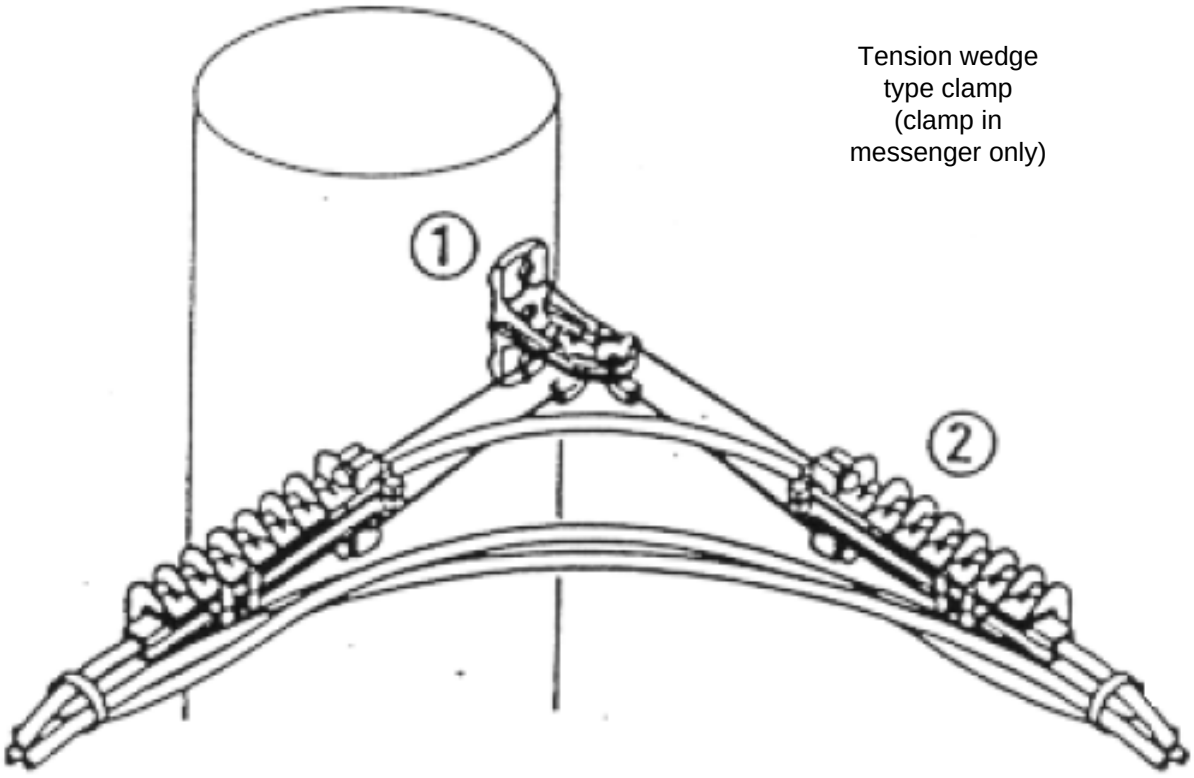


①



②

Tension wedge type clamp (clamp in messenger only)



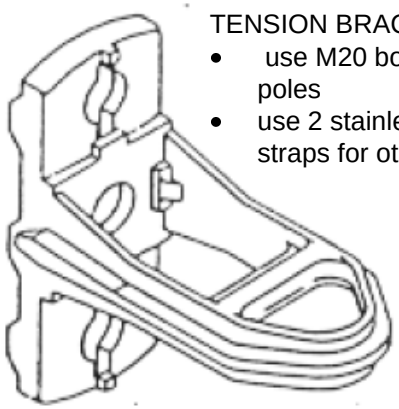
MV/LV OVERHEAD LINE CONSTRUCTION MANUAL			
LOW VOLTAGE AERIAL BUNDLED CABLE ANGLE POLE	Drawn: Checked: Approved: Date: 04/2026	Scale: NOT TO SCALE Drawing No. OHL 015	Rev. *

FILE REF.

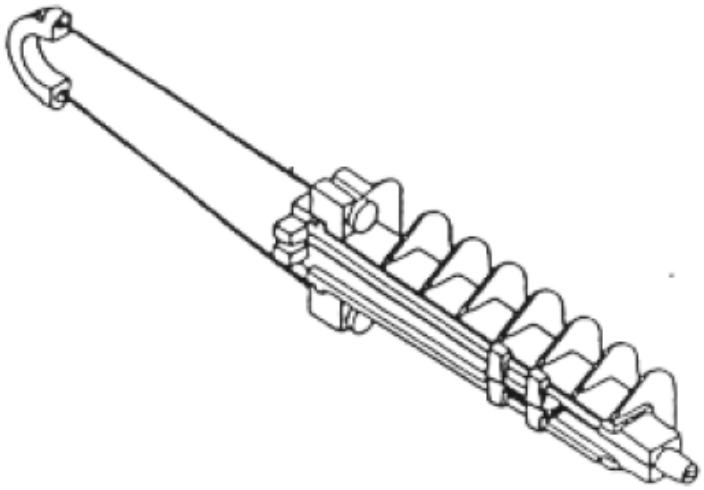
A4

TENSION BRACKET

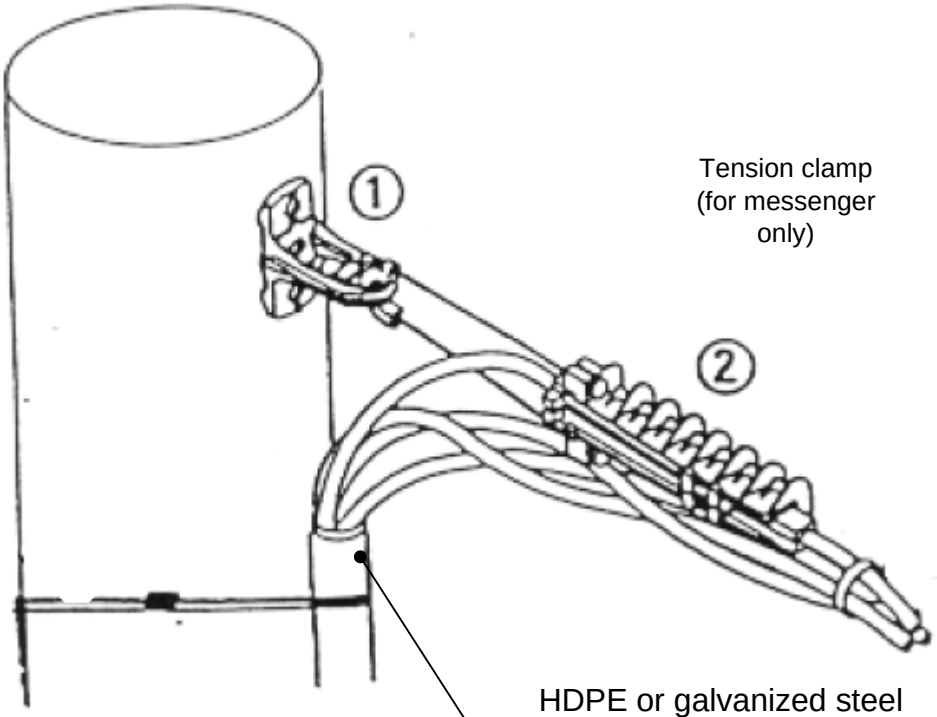
- use M20 bolt for wooden poles
- use 2 stainless steel straps for other poles



①



②



Tension clamp (for messenger only)

HDPE or galvanized steel pipe bound to pole via stainless steel straps
> soften edges before use!

MV/LV OVERHEAD LINE CONSTRUCTION MANUAL		
LOW VOLTAGE AERIAL BUNDLED CABLE TERMINAL POLE	Drawn: Checked: Approved: Date: 04/2026	Scale: NOT TO SCALE Drawing No. OHL 016 Rev. *

FILE REF.

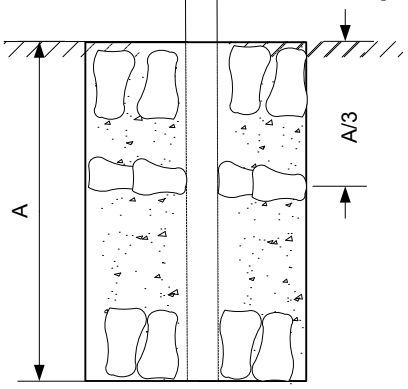
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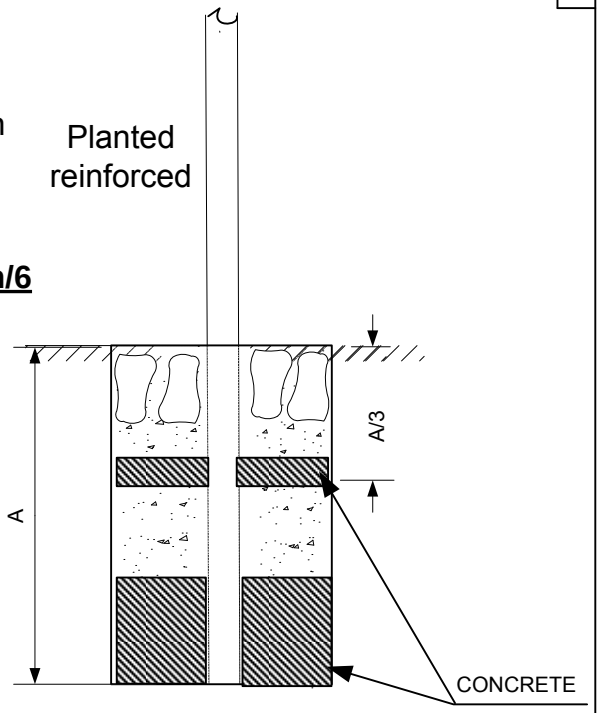
Plain planted

A ….. Embedment length
Shall be obtained in design calculation

Planted reinforced

Rule to follow
A > pole total length/6



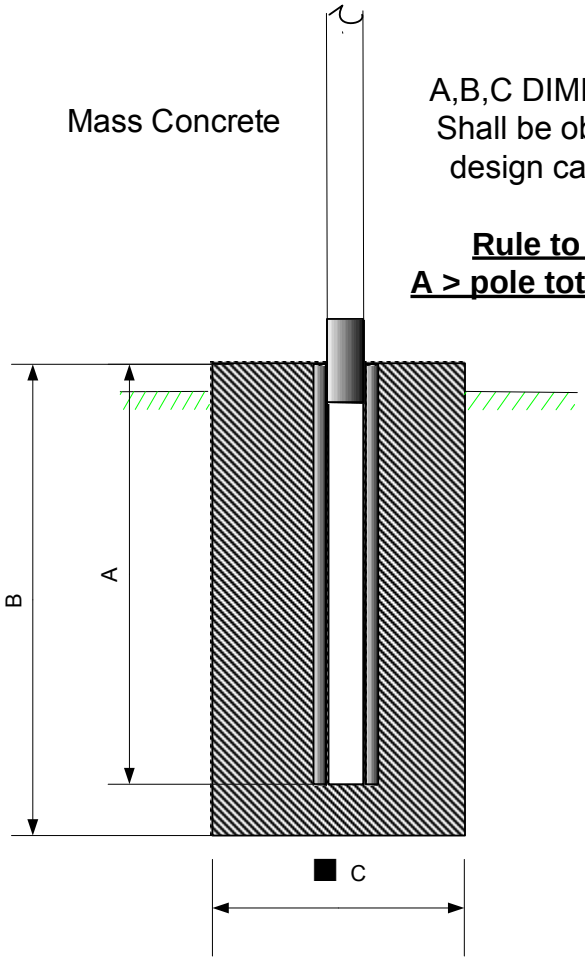


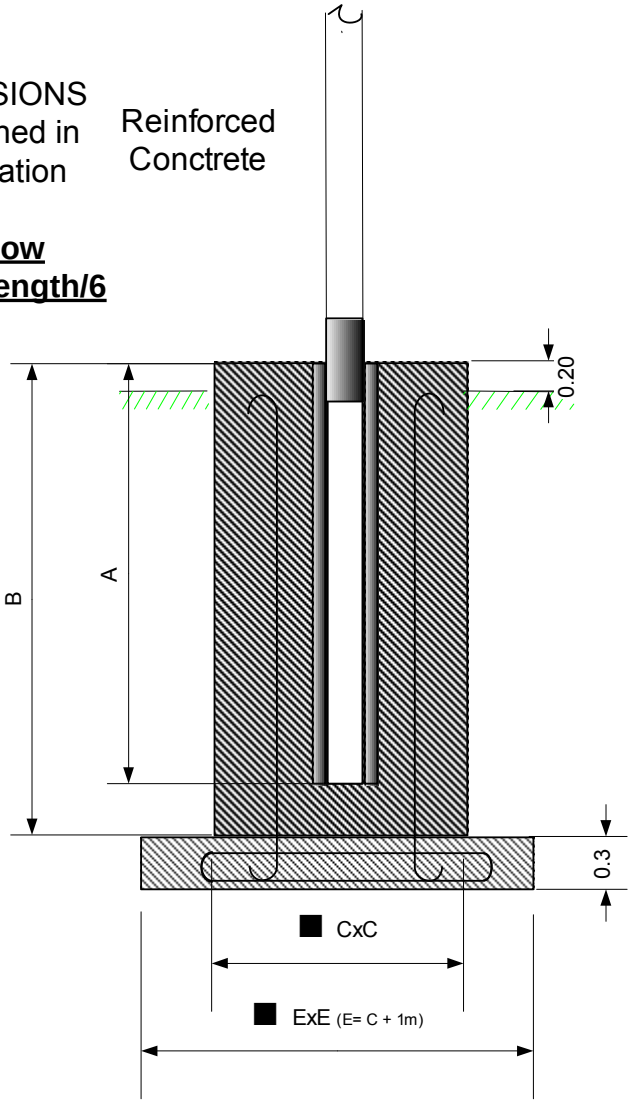
Mass Concrete

A,B,C DIMENSIONS
Shall be obtained in design calculation

Reinforced Conctrete

Rule to follow
A > pole total length/6





MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LV/MV LINE
FOUNDATION TYPES

Drawn:
Checked:
Approved:
Date: 04/2026

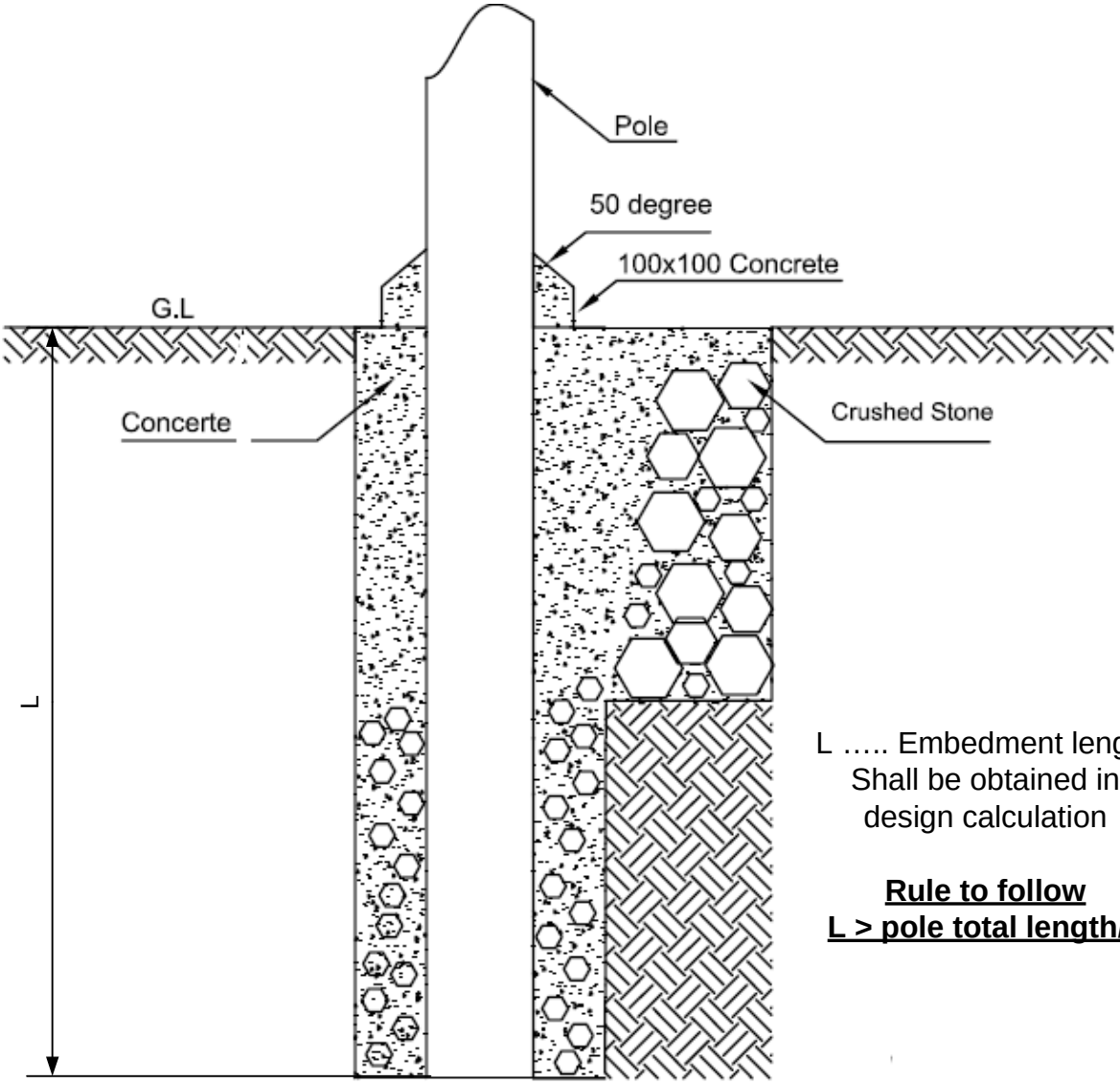
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Drawing No. OHL 017

Rev. *

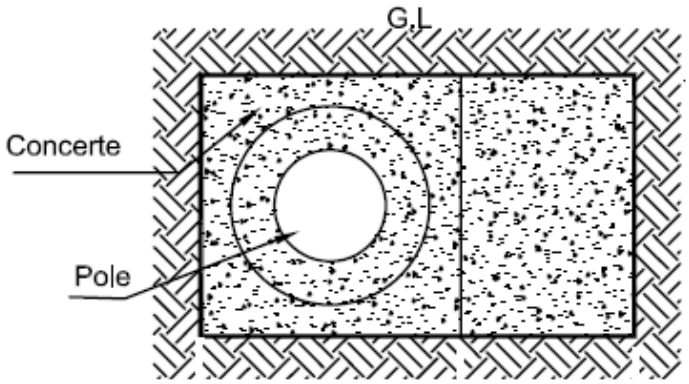
FILE REF.

A4



L ….. Embedment length
Shall be obtained in
design calculation

Rule to follow
L > pole total length/6



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LV/MV LINE
MANUAL DIG CONCRETE FOUNDATION (SIMPLIFIED)

Drawn:
Checked:
Approved:
Date: 04/2026

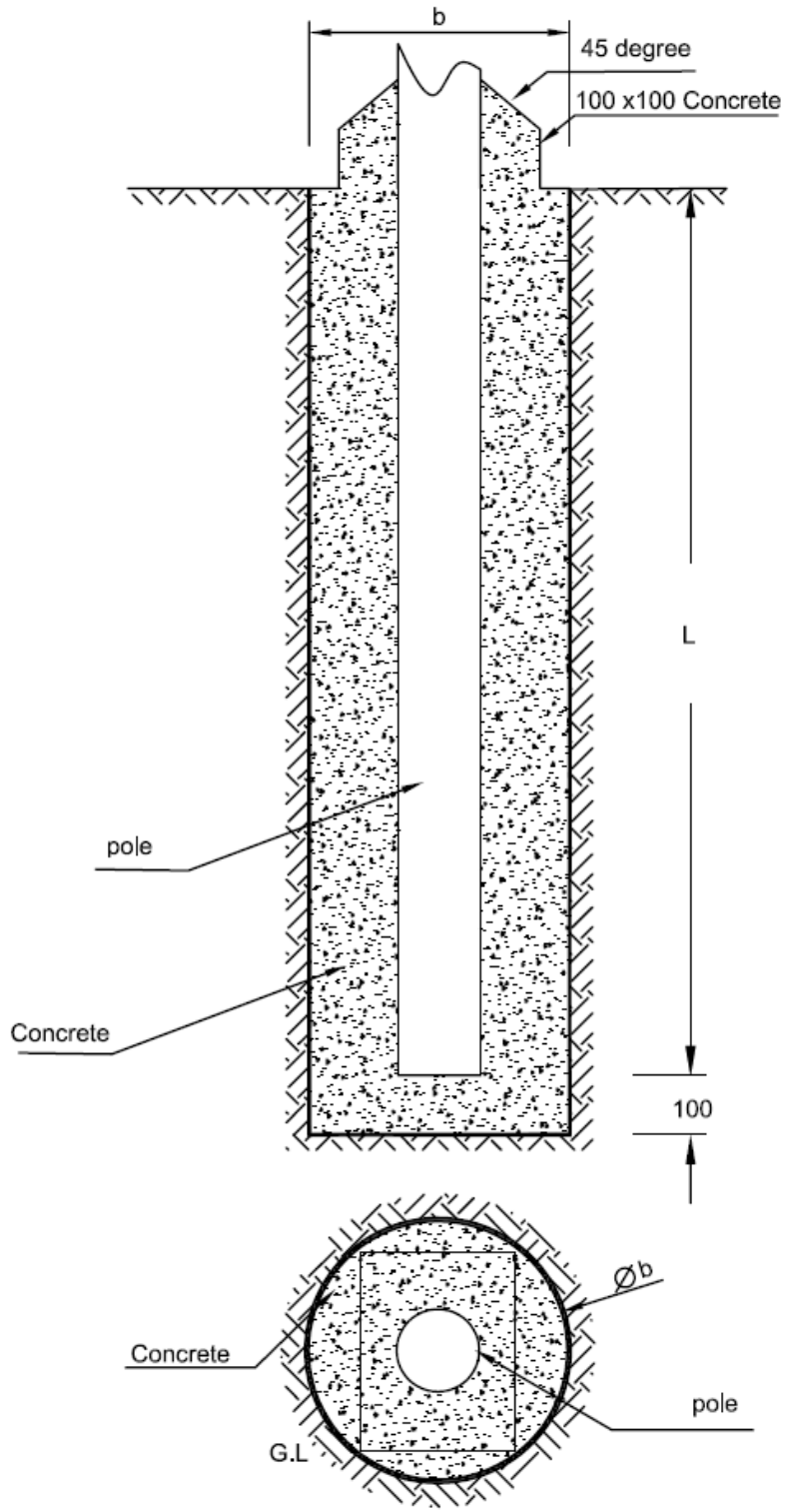
Scale: NOT TO SCALE

Drawing No. OHL 018

Rev. *

FILE REF.

A4



L ….. Embedment length
Shall be obtained in
design calculation

b ……...dimension
dicrtated by auger

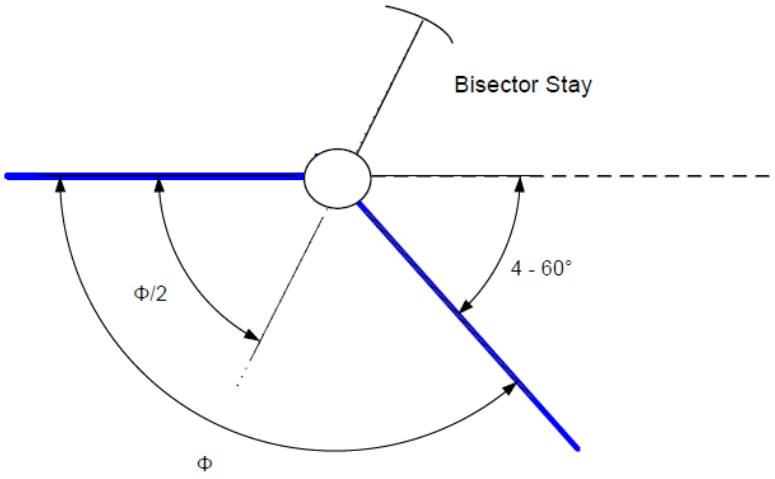
Rule to follow
L > pole total length/6

MV/LV OVERHEAD LINE CONSTRUCTION MANUAL			
LV/MV LINE AUGERED FOUNDATION (SIMPLIFIED)	Drawn: Checked: Approved: Date: 04/2026	Scale: NOT TO SCALE Drawing No. OHL 019	Rev. *

FILE REF.

A4

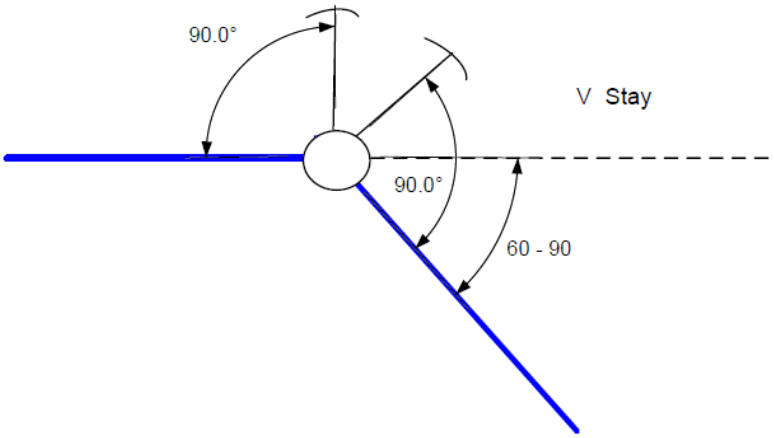
L



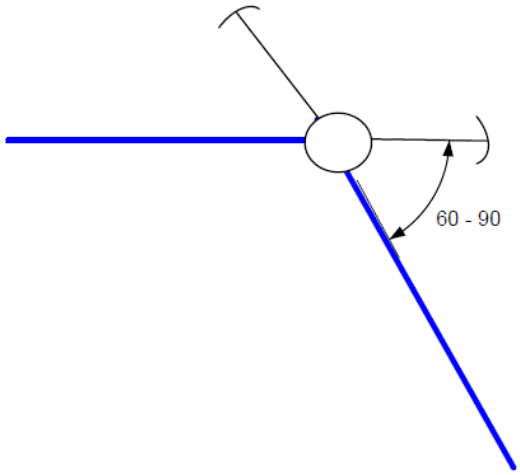
Bisecting apply regardless of the number of stays

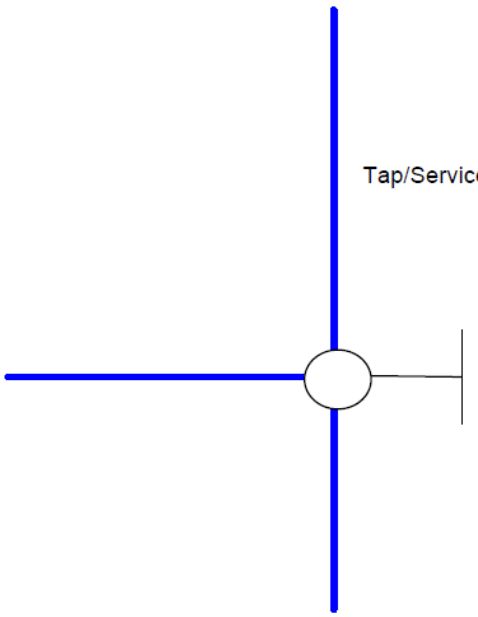
Dead End Stay





Dead V Stay





MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

LV/MV LINE
STAY ARRANGEMENT

Drawn:
Checked:
Approved:
Date: 04/2026

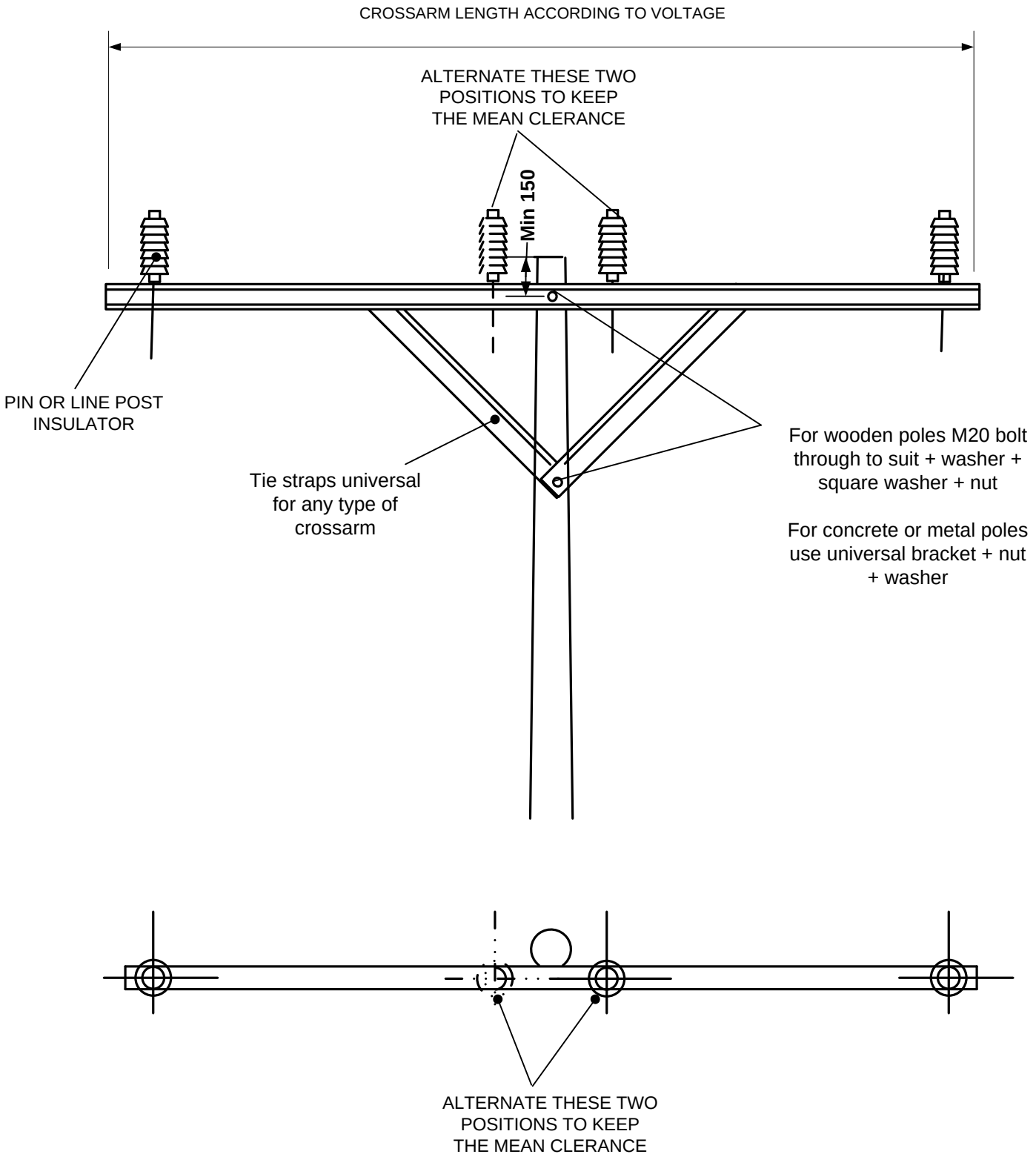
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Drawing No. OHL 020

Rev. *

FILE REF.

A4



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
STANDARD BARE CONDUCTOR SUSPENSION POLE

Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

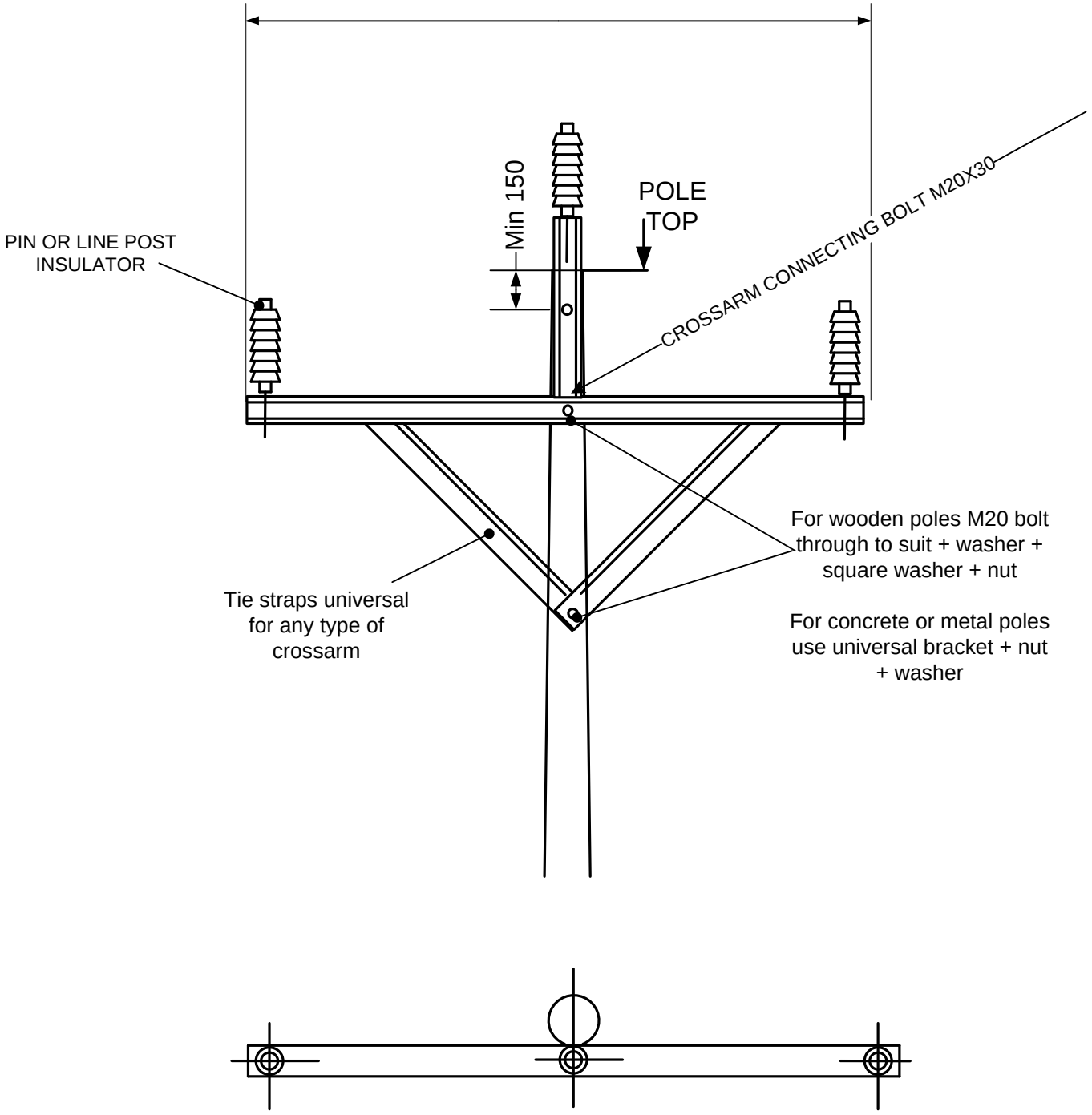
Drawing No. OHL 021

Rev. *

FILE REF.

A4

CROSSARM LENGTH CONSTANT – INDEPENDENT TO VOLTAGE



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
STANDARD COVERED CONDUCTOR SUSPENSION POLE

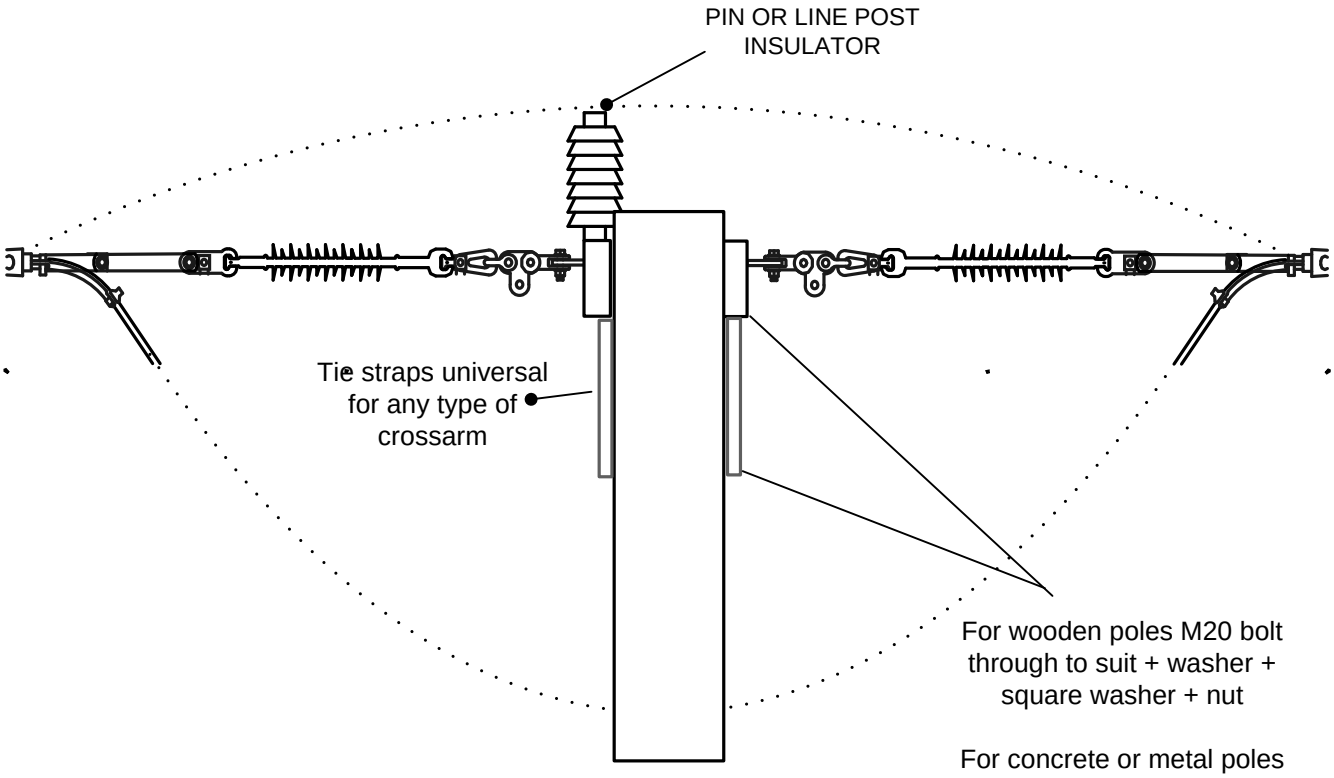
Drawn:
Checked:
Approved:
Date: 04/2026

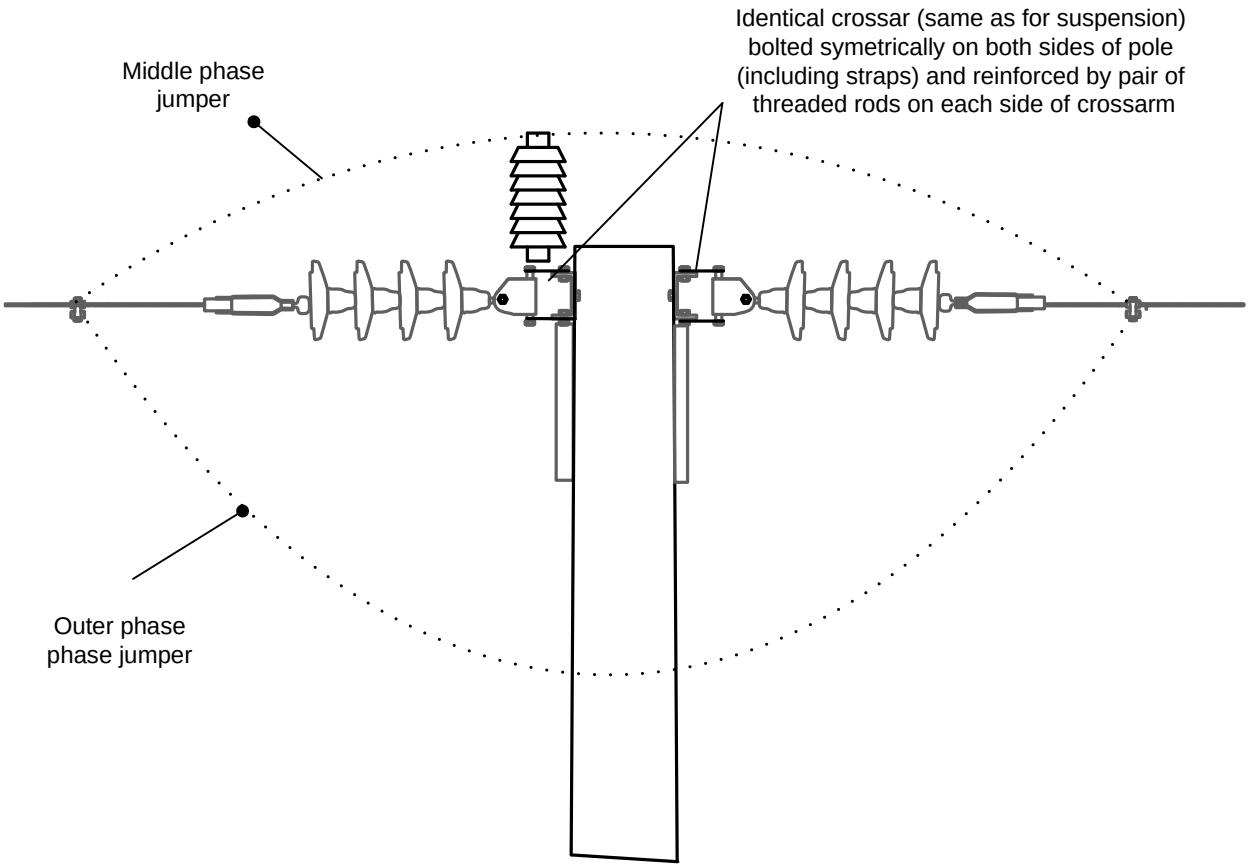
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Drawing No. OHL 022

Rev. *

A4





MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
STANDARD TENSION POLE

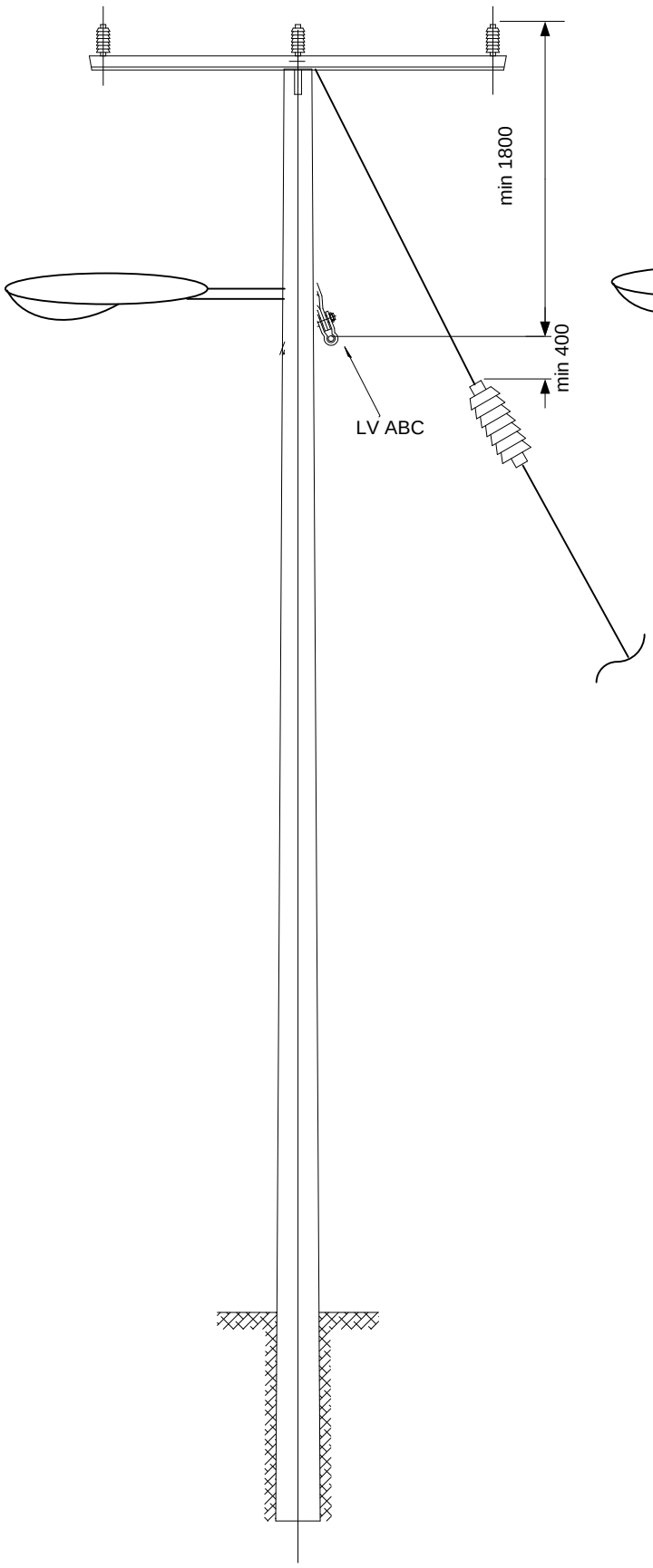
Drawn:
Checked:
Approved:
Date: 04/2026

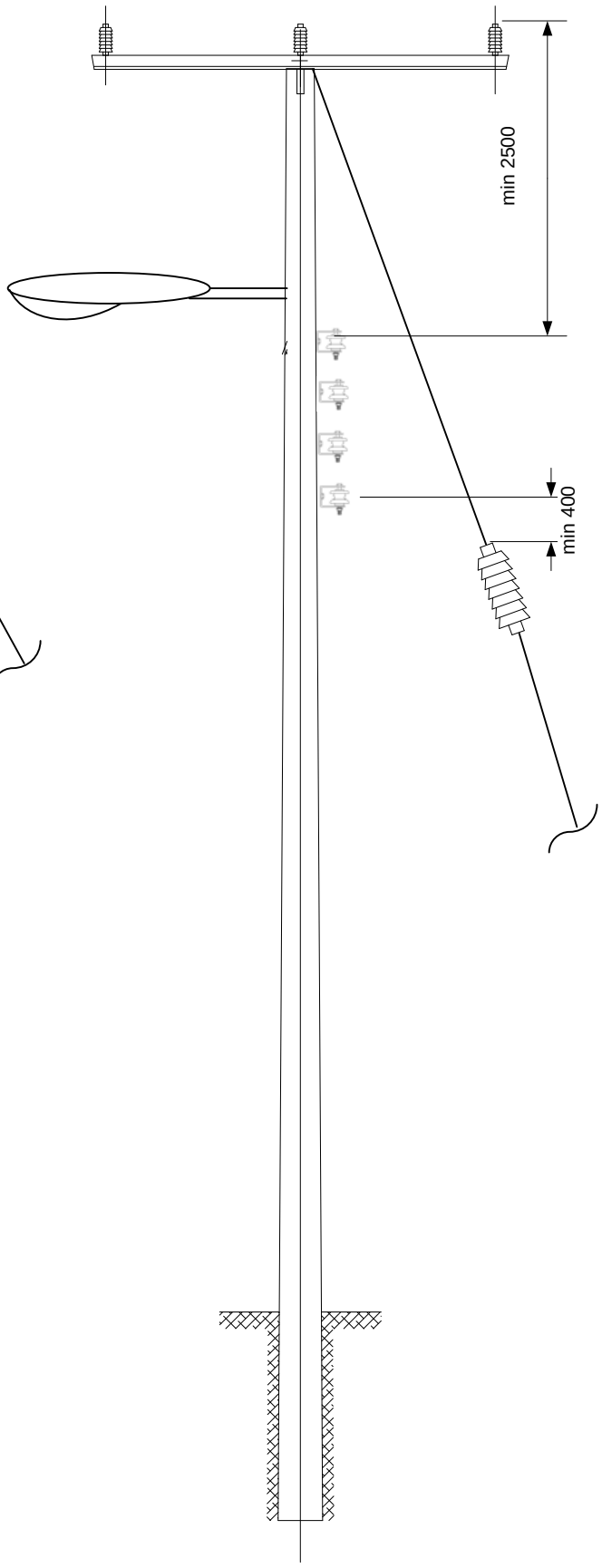
Scale: NOT TO SCALE

Drawing No. OHL 023

Rev. *

A4





MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
STANDARD BARE CONDUCTOR COMBINED MV/LV POLE

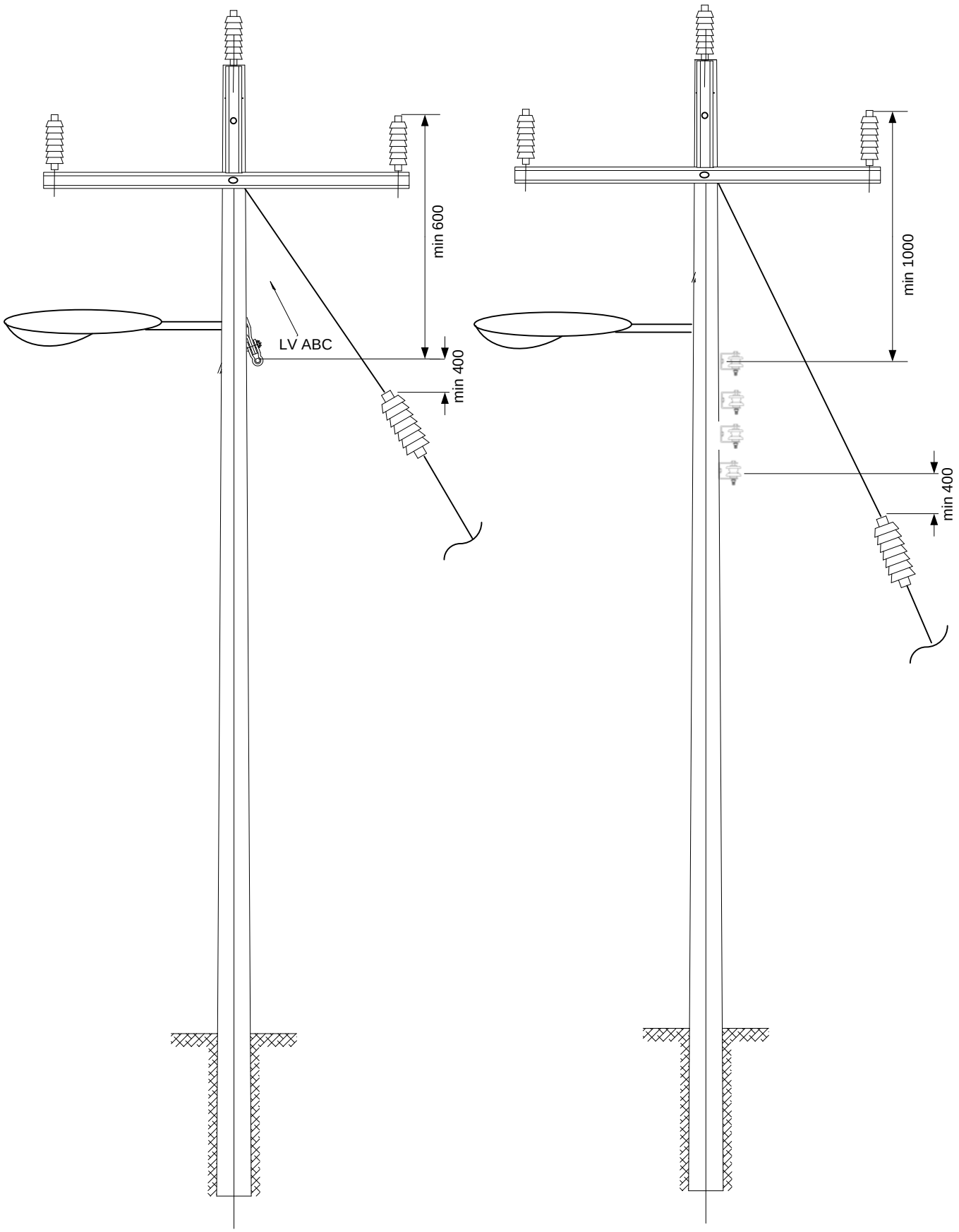
Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

Drawing No. OHL 024

Rev. *

A4



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
STANDARD COVERED
CONDUCTOR COMBINED MV/LV POLE

Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

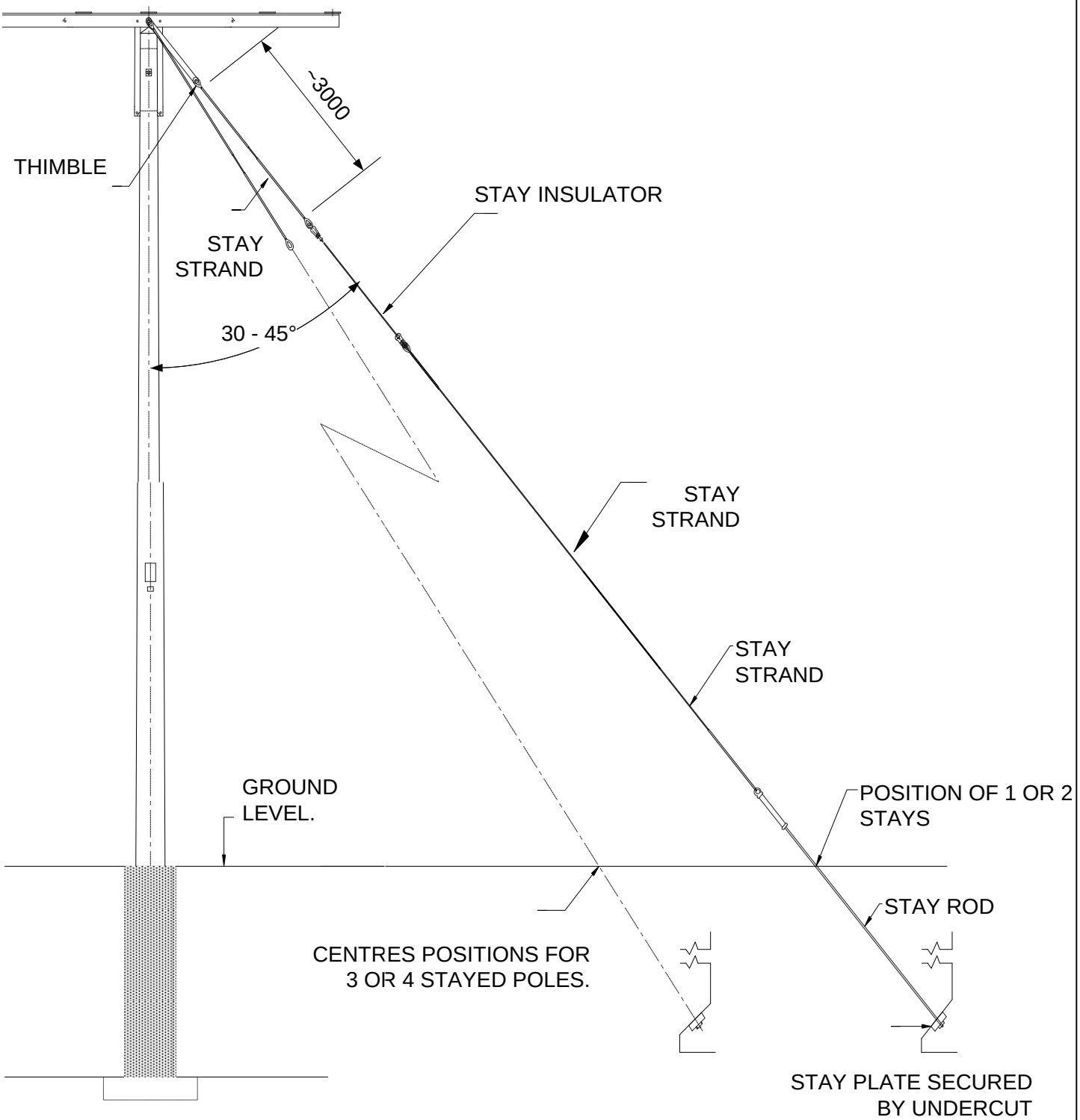
Drawing No. OHL 025

Rev. *

A4

RULES TO FOLLOW:

- stay shall be attached as close as possible to point of force causing the need for staying
- no more than 2 stays if simple stay bracket is used (thimble bracket)
- be sure that correct staywire and stay plate is used



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
STANDARD STAYED POLE

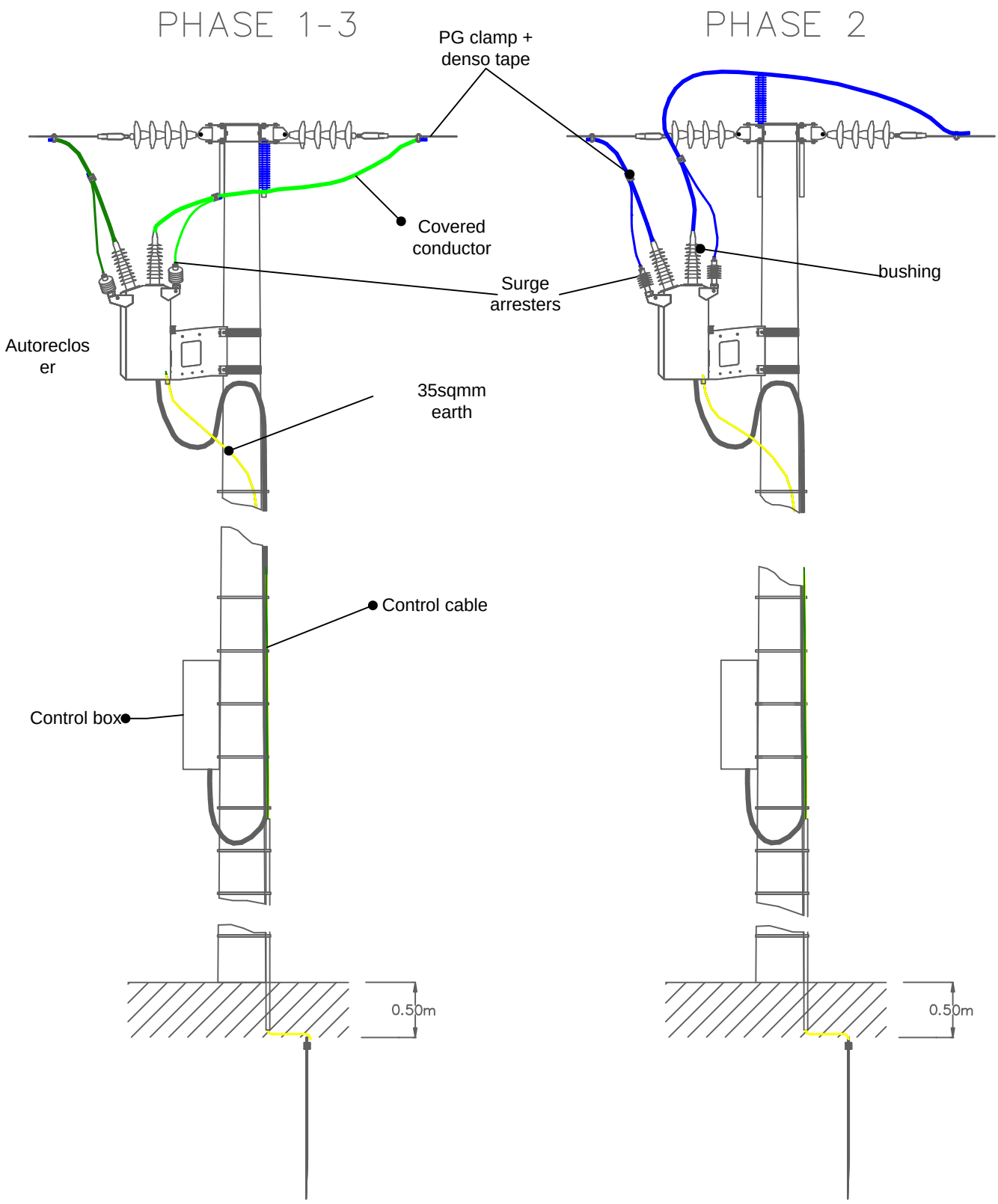
Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

Drawing No. OHL 026

Rev. *

A4



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
AUTORECLOSER ARRANGEMENT

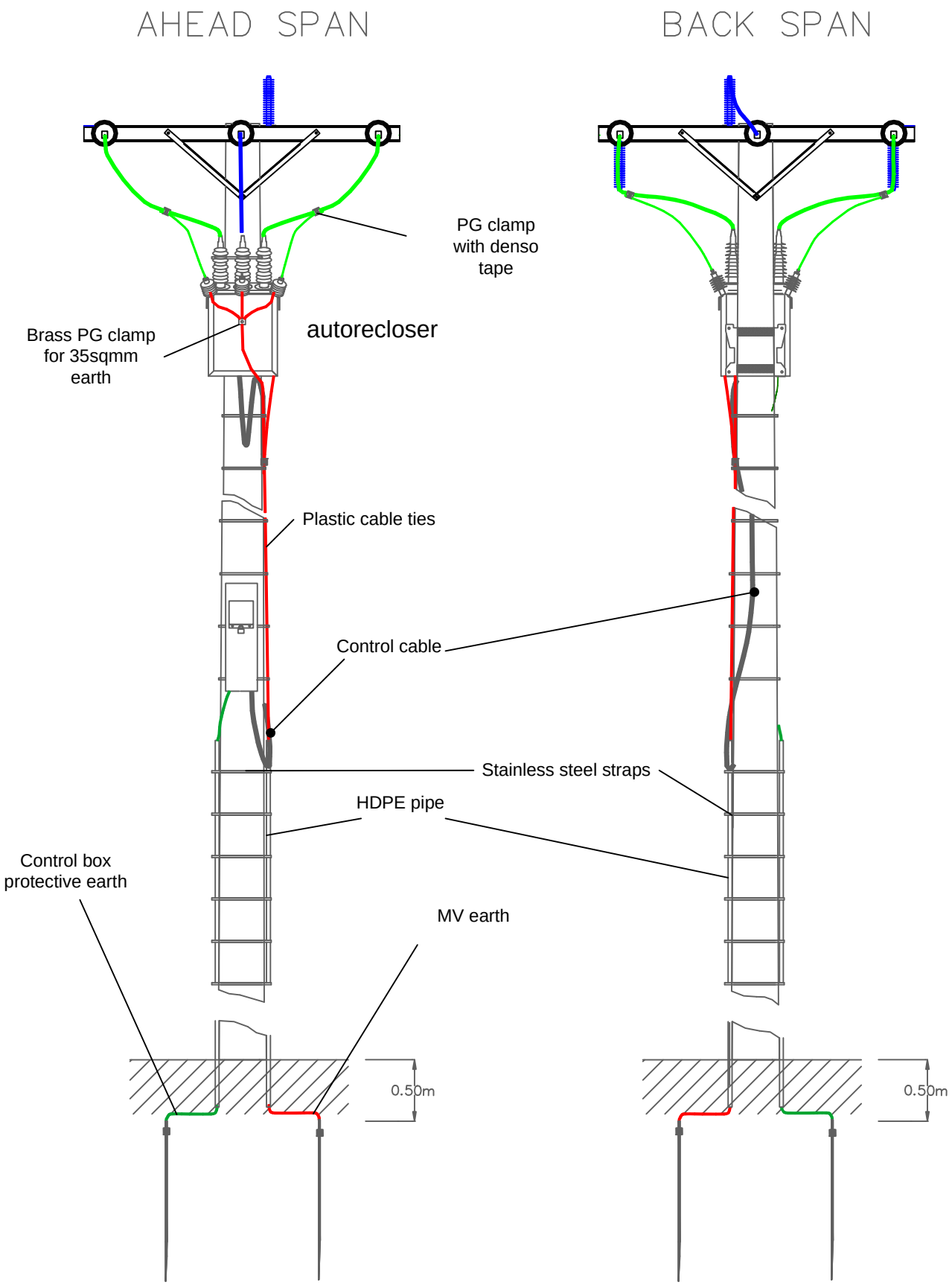
Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

Drawing No. OHL 027a

Rev. *

A4



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
AUTORECLOSER ARRANGEMENT

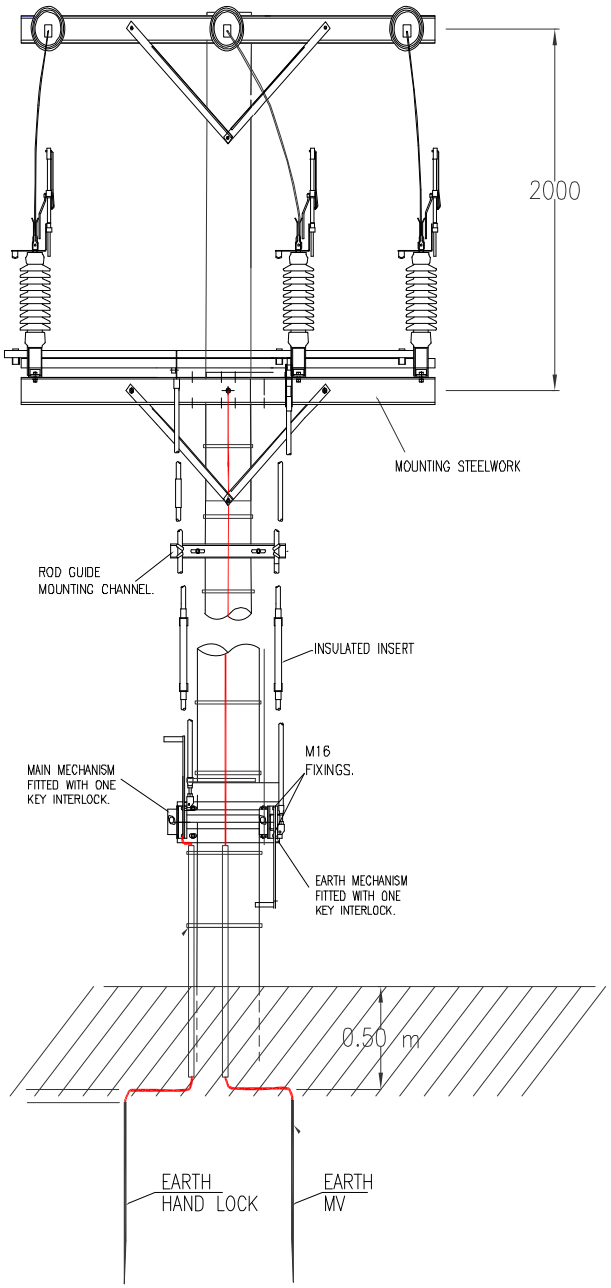
Drawn:
Checked:
Approved:
Date: 04/2026

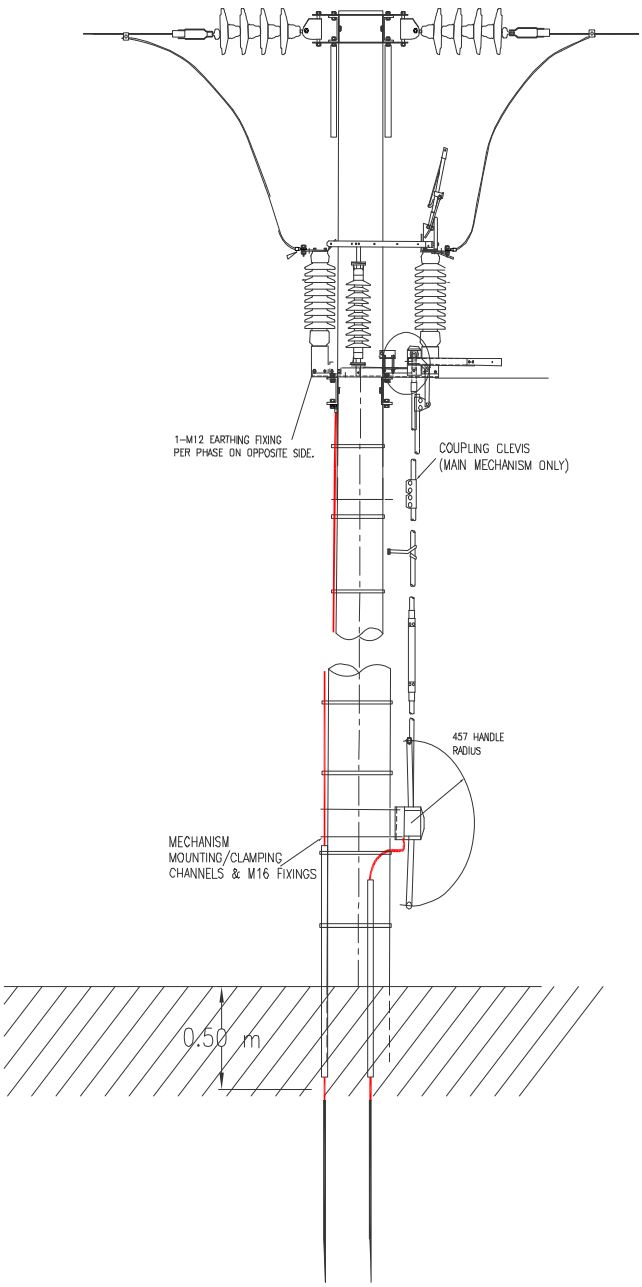
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Drawing No. OHL 027b

Rev. *

A4





MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MEDIUM VOLTAGE LINE
LOAD BREAK SWITCH ARRANGEMENT

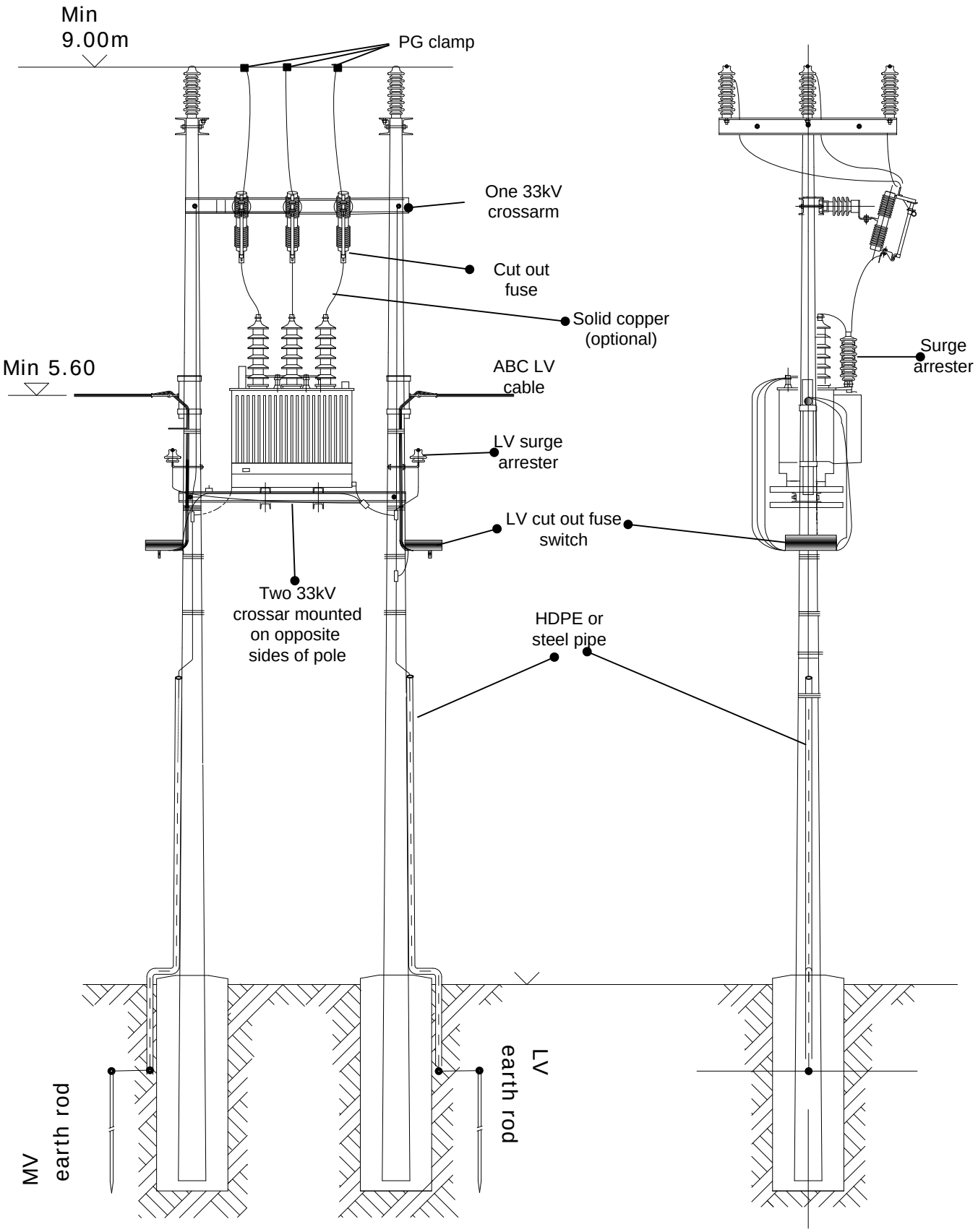
Drawn:
Checked:
Approved:
Date: 04/2026

Scale: NOT TO SCALE

Drawing No. OHL 028

Rev. *

A4



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MV/LV SUBSTATION TYPE "IN LINE"

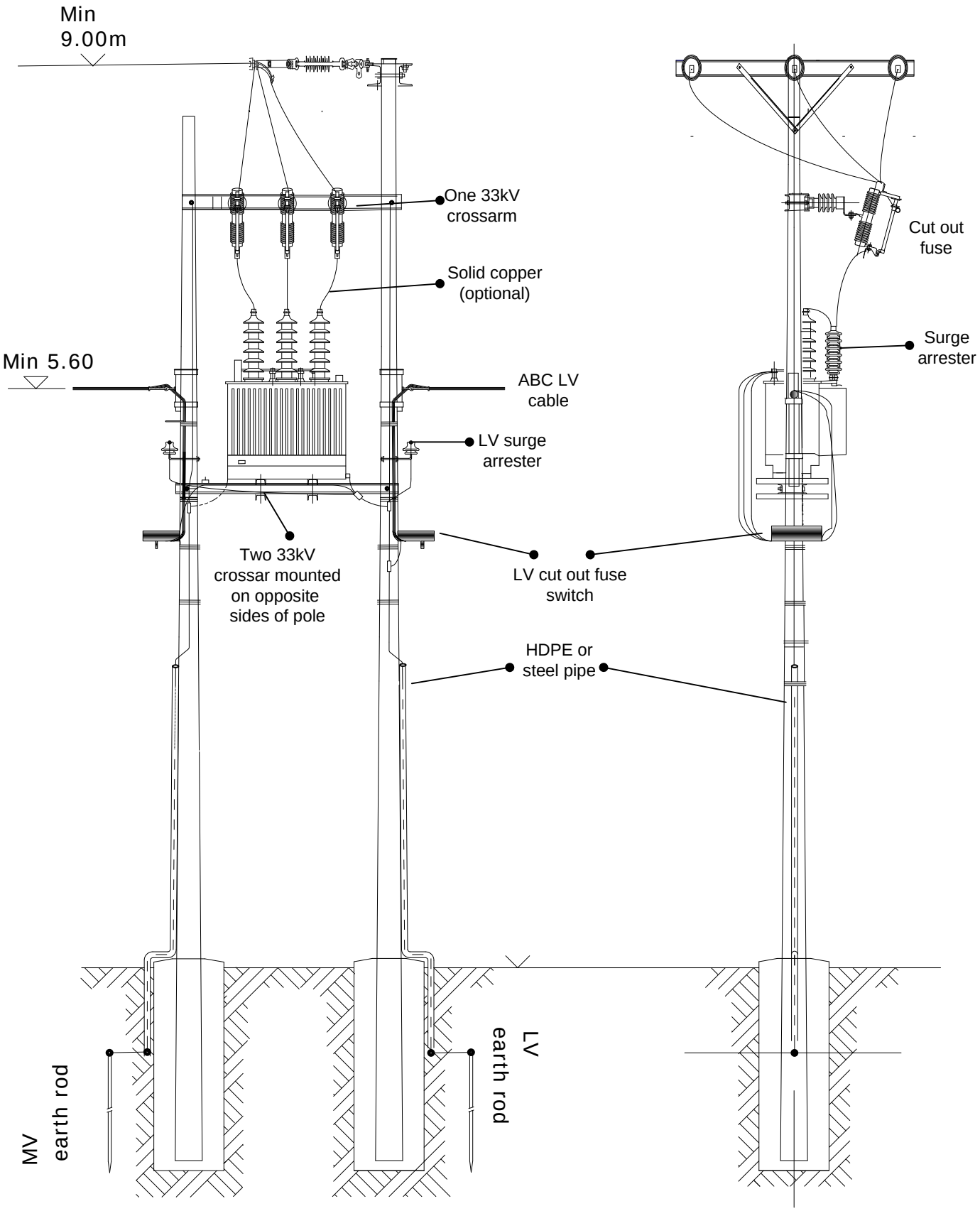
Drawn:
Checked:
Approved:
Date: 04/2026

Scale:

Drawing No. OHL 029

Rev. *

A4



MV/LV OVERHEAD LINE CONSTRUCTION MANUAL

MV/LV SUBSTATION TYPE "DEAD END"

Drawn:
Checked:
Approved:
Date: 04/2026

Scale:

Drawing No. OHL 030

Rev. *