



Distribution Overhead Construction Standard

Section 4 Switches, Fuses and Reclosers

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Authorisations

Action	Name and title	Date
Prepared by	Tetiana Knyzhka	23/02/2026
Reviewed by	Michael Healy	23/02/2026
Authorised by	Branden Papalia	02/04/2026
Review cycle	5 Years	

Responsibilities

This document is the responsibility of the Asset Management Systems and Standards Team, Tasmanian Networks Pty Ltd, ABN 24 167 357 299 (hereafter referred to as "TasNetworks").

Please contact the Asset Management Systems and Standards Team with any queries related to this standard.

Record of revisions

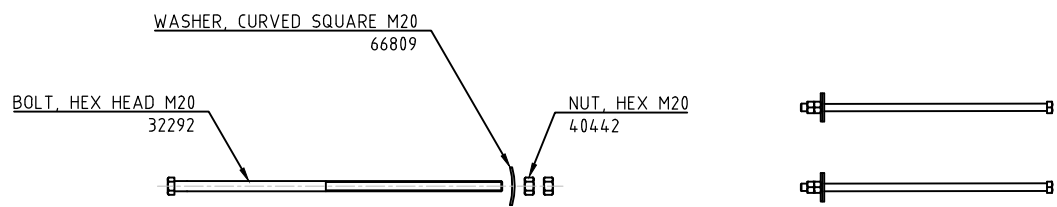
Version	Description	Date
3.0	Major update: Section fully revised to reflect current construction requirements.	02/04/2026

D-OHC-D100-SD-001	SWITCHGEAR CONSTRUCTIONS. ASSEMBLIES EXPLANATION
D-OHC-D100-SD-002	SWITCHGEAR CONSTRUCTIONS. GENERAL NOTES & CODES
D-OHC-D101-SD-001	SWITCHGEAR CONSTRUCTIONS. 11kV & 22kV FUSE SUB-ASSEMBLIES WITH MOUNTING BRACKET DETAILS
D-OHC-D101-SD-002	SWITCHGEAR CONSTRUCTIONS. CONTROL CUBICLE SUB-ASSEMBLIES. RECLOSER
D-OHC-D101-SD-003	SWITCHGEAR CONSTRUCTIONS. CONTROL CUBICLE SUB-ASSEMBLIES. AUTO LOAD BREAK SWITCH
D-OHC-D101-SD-004	SWITCHGEAR CONSTRUCTIONS. NOJA RECLOSER SUB-ASSEMBLIES. CONNECTIONS & ATTACHMENTS
D-OHC-D102-SD-001	SWITCHGEAR CONSTRUCTIONS. HV FUSE ASSEMBLIES. FRP CROSSARM MOUNTED. 11 OR 22kV. USED WITH TRANSFORMERS
D-OHC-D102-SD-002	SWITCHGEAR CONSTRUCTIONS. HV FUSE ASSEMBLIES. INLINE FRP CROSSARM MOUNTED. 11kV
D-OHC-D102-SD-003	SWITCHGEAR CONSTRUCTIONS. HV FUSE ASSEMBLIES. INLINE FRP CROSSARM MOUNTED. 22kV
D-OHC-D102-SD-004	SWITCHGEAR CONSTRUCTIONS. HV FUSE ASSEMBLIES. TEE OFF FRP CROSSARM MOUNTED. 11kV
D-OHC-D102-SD-005	SWITCHGEAR CONSTRUCTIONS. HV FUSE ASSEMBLIES. TEE OFF FRP CROSSARM MOUNTED. 22kV
D-OHC-D103-SD-001	SWITCHGEAR CONSTRUCTIONS. AIR BREAK SWITCH ASSEMBLIES. VERTICAL ABS. 11 OR 22kV
D-OHC-D103-SD-002	SWITCHGEAR CONSTRUCTIONS. AIR BREAK SWITCH ASSEMBLIES. HORIZONTAL ABS. 11 OR 22kV
D-OHC-D103-SD-003	SWITCHGEAR CONSTRUCTIONS. AIR BREAK SWITCH ASSEMBLIES. VERTICAL ABS – HV TO U/G CABLE. 11 OR 22kV
D-OHC-D103-SD-004	SWITCHGEAR CONSTRUCTIONS. AIR BREAK SWITCH ASSEMBLIES. BILL OF MATERIALS. 11 OR 22kV
D-OHC-D104-SD-001	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. NGK MANUAL LBS – BELOW HV. 11 OR 22kV
D-OHC-D104-SD-002	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. NGK MANUAL LBS – ABOVE HV. 11 OR 22kV
D-OHC-D104-SD-003	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. NGK MANUAL LBS – HV TO U/G CABLE. 11 OR 22kV
D-OHC-D104-SD-004	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. LBS ABOVE POLE – HV TO U/G CABLE. 11 OR 22kV
D-OHC-D104-SD-005	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. LBS – HV TO U/G CABLE. BILL OF MATERIALS. 11 OR 22kV

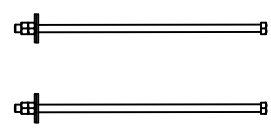
D-OHC-D105-SD-001	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. RL27 REMOTE CONTROLLED LBS. 11 OR 22kV
D-OHC-D105-SD-002	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. RL27 REMOTE LBS – HV TO U/G CABLE. 11 OR 22kV
D-OHC-D105-SD-003	SWITCHGEAR CONSTRUCTIONS. LOAD BREAK SWITCH ASSEMBLIES. LBS – HV TO U/G CABLE. BILL OF MATERIALS. 11 OR 22kV
D-OHC-D106-SD-001	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. NO AIR BREAK SWITCH. 11 OR 22kV
D-OHC-D106-SD-002	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. WITH AIR BREAK SWITCH. 11 OR 22kV
D-OHC-D106-SD-003	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. BILL OF MATERIALS. 11 OR 22kV
D-OHC-D106-SD-004	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. FULL SWITCHGEAR. 11 OR 22kV
D-OHC-D106-SD-005	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. FULL SWITCHGEAR. BILL OF MATERIALS. 11 OR 22kV
D-OHC-D106-SD-006	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. TRANSITION HV TO U/G CABLE. 11 OR 22kV
D-OHC-D106-SD-007	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. TRANSITION HV TO U/G CABLE – WITH ABS. 11 OR 22kV
D-OHC-D106-SD-008	SWITCHGEAR CONSTRUCTIONS. RECLOSER – NOJA ASSEMBLIES. TRANSITION HV TO U/G CABLE & WITH ABS. BILL OF MATERIALS. 11 OR 22kV
D-OHC-D107-SD-001	SWITCHGEAR CONSTRUCTIONS. SWER RECLOSER ASSEMBLY. 12.7kV
	LIST OF BOMs

1 2 3 4 5 6 7

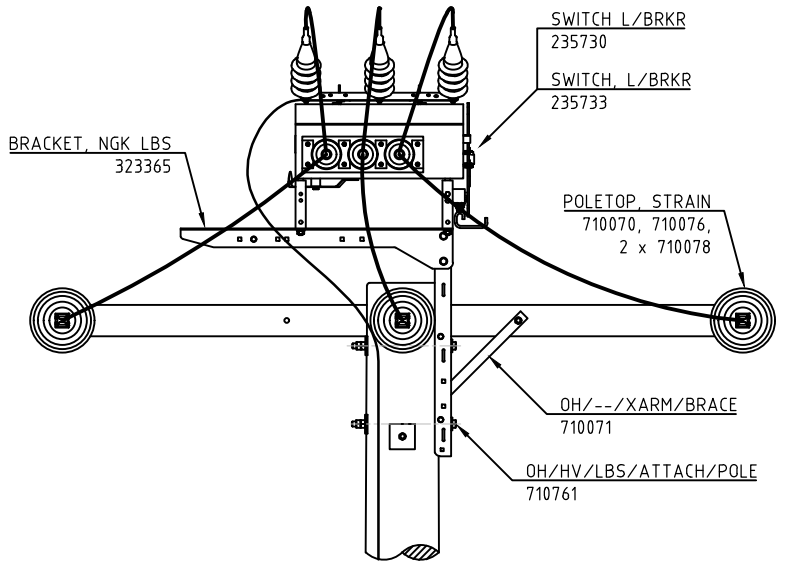
A



MATERIALS



SUB-ASSEMBLY
710261



11/MLBS/NGK/--/POLETOP
710285

B

C

- NOTES:**
1. A MATERIAL IS TYPICALLY BOLTS, NUTS, WASHERS ETC. THAT IS PART OF A SUB-ASSEMBLY OR ASSEMBLY. IT'S DEFINED SEPARATELY TO SIMPLIFY DESIGN AND CONSTRUCTION.
 2. A SUB-ASSEMBLY IS A SMALLER, SELF-CONTAINED UNIT THAT IS PART OF A LARGER ASSEMBLY. IT'S DEFINED SEPARATELY TO SIMPLIFY DESIGN AND CONSTRUCTION.
 3. AN ASSEMBLY IS THE MAJOR STRUCTURE THAT IS MADE UP OF MULTIPLE PARTS OR SUB-ASSEMBLIES AND MATERIAL. IT REPRESENTS THE COMPLETE UNIT THAT IS INSTALLED IN THE FIELD.
 4. MATERIAL NUMBERS TYPICALLY START WITH 1XXXXX, 2XXXXX, 3XXXXX, 4XXXXX, 5XXXXX, 8XXXXX, OR 0XXXXX (LEADING ZERO IS OFTEN NOT SHOWN).
 5. SUB-ASSEMBLY DESCRIPTIONS BEGIN WITH "OH/" AND ARE ASSOCIATED WITH 710XXX NUMBERS.
 6. ASSEMBLY DESCRIPTIONS BEGIN WITH "11", "12.7", "22", "LVABC", "LV", OR "HV", AND ALSO USE 710XXX NUMBERS.

D

MATERIAL	DESCRIPTION	710261	
		OH/HV/LBS/ATTACH/POLE	
32292	BOLT, HEX HEAD M20x450mm GAL. C/W NUT	2	
66809	WASHER, CURVED SQUARE M20 100mm	2	
40442	NUT, HEX M20 THREAD GALVANISED STEEL	2	

E

SUB-ASSEMBLIES	MATERIAL	DESCRIPTION	710285	
			11/MLBS/NGK/--/POLETOP	
	710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	
	710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	
	710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)	1	
	710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)	2	
SUB-ASSEMBLY	235730	SWITCH, L/BRKR LBS 11kV MANUAL N-A	1	
	710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	1	
	323365	BRACKET, MOUNTING, POLETOP, TO SUIT NGK LBS	1	

EMF/PDF CREATION DATE 02/12/2025

ALTERATIONS ORIGINAL ISSUE

REFERENCE
NEW DRAWING

DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	TJNYZHA
CHECKED BY	MJEALY
APPROVED BY	B.PAPALLA
DATE APPROVED	02-01-2024

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TITLE SWITCHGEAR CONSTRUCTIONS ASSEMBLIES EXPLANATION		SCALE NTS	BM REV A
D - OHC - D100 - SD - 001		A4	REVISION A

1 2 3 4 5 6 7

SWITCHGEAR CONSTRUCTION CODES

FOR SUB-ASSEMBLIES:

OH

DENOTER

HV

VOLTAGE

HV - HIGH VOLTAGE OPEN WIRE
 '---' - VOLTAGE DOESN'T APPLY
 11 - 11kV
 12.7 - SWER
 22 - 22kV

REC

SUB ASS. TYPE

EDO - EXPULSION DROPOUT FUSE
 BAF - BORIC ACID FUSE
 FTF - FAULT TAMER FUSE
 SBRACE- SIDE BRACE
 REC - RECLOSER
 LBS - LOAD BREAK SWITCH
 ALBS - AUTOMATIC LOAD BREAK SWITCH

ATTACH

SUB TYPE

1 - SINGLE PHASE
 3 - THREE PHASE
 ATTACH - RECLOSER/LBS ATTACHMENTS
 TELSTRA - TELSTRA MODEM
 OPTUS - OPTUS MODEM

POLE

ADDITIONAL

POLE - POLE ATTACHMENTS
 SURGEARRESTOR - SURGE ARRESTOR ATTACHMENTS
 MODEM - COMMUNICATIONS FOR DEVICES

FOR ASSEMBLIES:

11

VOLTAGE

HV - HIGH VOLTAGE OPEN WIRE
 11 - 11kV
 22 - 22kV
 12.7 - SWER

REC

ISOLATION TYPE

EDO - EXPULSION DROPOUT FUSE
 BAF - BORIC ACID FUSE
 FTF - FAULT TAMER FUSE
 REC - RECLOSER
 MLBS - MANUAL LOAD BREAK SWITCH
 ALBS - AUTOMATIC LOAD BREAK SWITCH
 ABS - AIR BREAK SWITCH

NOJA

PHASES OR MAKE

1 - ONE PHASE + NEUTRAL
 3 - THREE PHASES + NEUTRAL
 NOJA - RECLOSER TRADEMARK
 NULEC - ALBS TRADEMARK
 NGK - MLBS TRADEMARK

OPTUS

ADDITIONAL

T - TEE OFF
 S - STRAIN
 TELSTRA - TELSTRA MODEM
 OPTUS - OPTUS MODEM
 '---' - NO MODEM INCLUDED
 VERT - VERTICAL
 HOR - HORIZONTAL

BOLT

MOUNTING OR ADDITIONAL


BOLT - BOLTED TO POLE
 POLETOP - AFFIXED ABOVE THE POLE USING A RAISER BRACKET
 RETROFIT - RETROFIT
 RETRO-PT - RETROFIT POLETOP
 BOLT-UG - BOLTED OH TO UG TRANSITION
 PT-UG - POLETOP TO UNDERGROUND TRANSITION
 BOLT-INC - BOLTED WITH INCOMING ABS
 BOLT-UG-INC - BOLTED OH TO UG TRANSITION WITH INCOMING ABS

GENERAL NOTES FOR SWITCHGEAR CONSTRUCTIONS:

- SWITCHGEAR TO BE LOCATED WITH CONSIDERATION TO ONGOING MAINTENANCE AND SAFE OPERATOR ACCESS WITH INDICATOR ARMS EASILY VISIBLE.
- THE MINIMUM CLEARANCE FROM THE HV CABLE CRUTCH TO GROUND LEVEL SHALL BE 5.5m, UNLESS OTHERWISE SPECIFIED BY THE DESIGNER.
- REFER TO EARTHING SECTION FOR EARTHING DETAILS.
- COVERED CONDUCTOR AND TIES WITH NON-TENSION CONNECTORS ARE PREFERRED FOR ALL LOOPS.
- SWITCHGEAR CONTROL CUBICLES TO BE MINIMUM 3000mm ABOVE GROUND TO LOWEST POINT UNLESS APPROVED BY ENGINEERING OR OTHERWISE STATED.
- CUBICLE CONTROL CABLE TO HV EARTH SEPARATION MINIMUM 150mm.
- EARTH FROM RECLOSER OR LOAD BREAK SWITCH TO GROUND SHALL BE UNBROKEN.
- WHERE ANY STAY IS USED ENSURE 310mm MINIMUM CLEARANCE BETWEEN STAY WIRE AND ANY LIVE PARTS (REFER AS 2067:2016).
- ENSURE LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE WITH A MINIMUM OF ONE VISIBLE THREAD PAST THE LOCK NUT.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

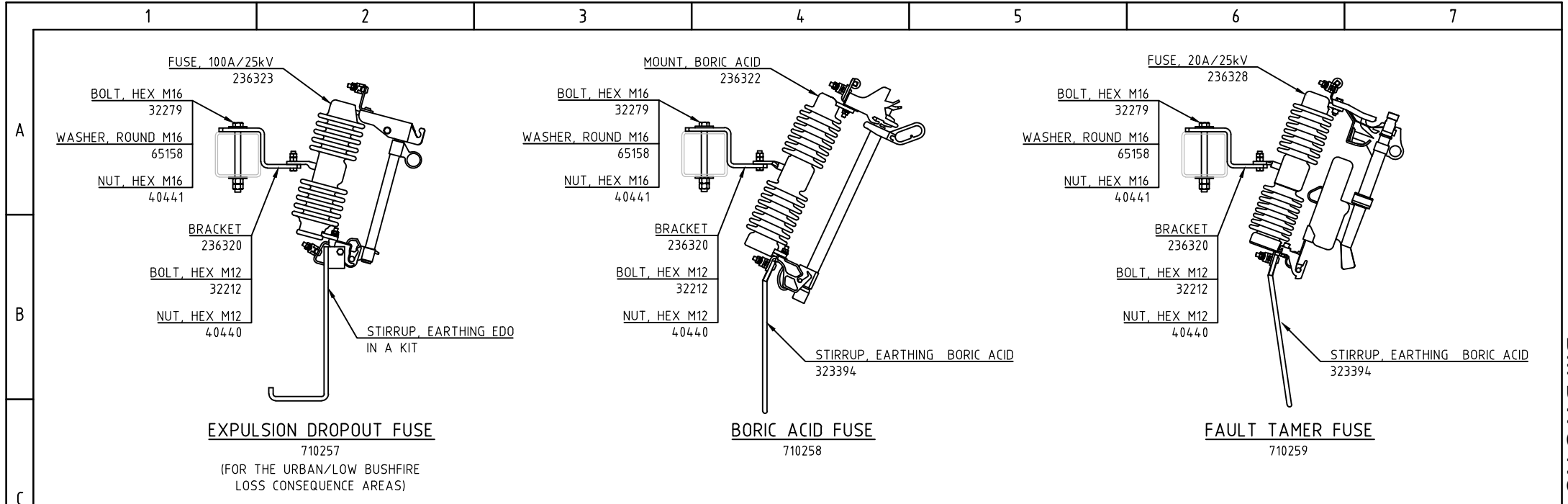
EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS

ORIGINAL ISSUE	REFERENCE	 TasNetworks	© Tasmanian Networks PTY. LTD. trading as TasNetworks ABRN 24 167 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
	NEW DRAWING			
		DRAWN ANSS DRAFTING CHECK ANSS DESIGNED BY T.JOHYZHKA CHECKED BY M.JEALY APPROVED BY B.PAPALIA DATE APPROVED 02-04-2026	D - OHC - D100 - SD - 002	

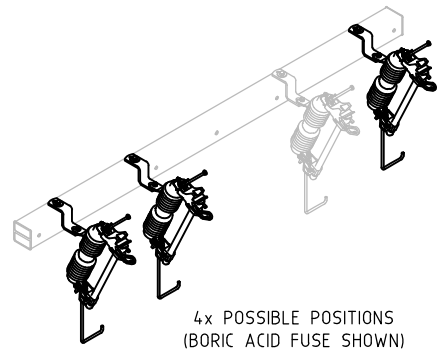
BM DWG NO D-OHC-D100-SD-002

BM REV B



SPUR LINE FUSES				RECOMMENDED FUSE RATING (AMPS)		
TOTAL CONNECTED kVA						
11kV		22kV		FAULT TAMER	EDO	BORIC ACID
1 PHASE	3 PHASE	1 PHASE	3 PHASE			
50	80	100	160	15	16	15
100	170	200	340	20	25	25
200	350	400	700	20	25	25
300	500	600	1000	N/A	50	50
500	850	1000	1700	N/A	50	50

MATERIAL	DESCRIPTION	710257	710258	710259
		OH/HV/EDO/1	OH/HV/BAF/1	OH/HV/FTF/1
236323	FUSE, CUTOFF 100A/25kV 1P PRIMARY EXPULSN	1		
236320	BRACKET, MOUNTING HV FUSES FOR FRP XARM	1	1	1
236322	MOUNT, BORIC ACID C/W FUSE AND ELEMENT		1	
323394	STIRRUP, EARTHING TO SUIT BORIC ACID FUSE		1	1
236328	FUSE, CUTOFF 20A/25kV 1P PRIMARY EXPULSN			1
32279	BOLT, HEX HEAD M16 X 180mm GAL. C/W NUT	1	1	1
65158	WASHER, FLAT ROUND M16 X 50mm GAL	1	1	1
40441	NUT, HEX M16 THREAD GALVANISED STEEL	1	1	1
32212	BOLT, HEX HEAD M12 X 50mm GAL. C/W NUT	1	1	1
40440	NUT, HEX M12 THREAD GALVANISED STEEL	1	1	1



- NOTES:
- REFER TO GENERAL NOTES.
 - REFER TO THE DISTRIBUTION SWITCHGEAR OPERATIONS MANUAL FOR TRANSFORMER FUSE RATING TABLES.
 - FOR FUSE SIZES GREATER THAN SHOWN CONTACT NETWORK OPERATIONS.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS	ORIGINAL ISSUE	REFERENCE		© Tasmanian Networks PTY. LTD. trading as TasNetworks ABL 24 107 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
		NEW DRAWING			
		DATE APPROVED 02-01-2024	DRAWN MEGAVAR PTY LTD DRAFTING CHECK MEGAVAR PTY LTD DESIGNED BY T.JOHNSON CHECKED BY M.JEALY APPROVED BY B.PAPALIA	D - OHC - D101 - SD - 001	

EMF/PDF CREATION DATE 02/12/2025

BM DWG NO D-OHC-D101-SD-001

BM REV A

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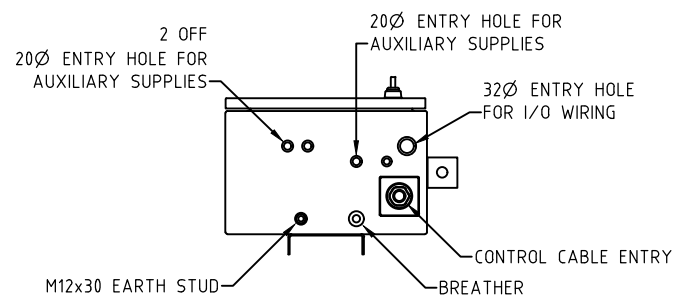
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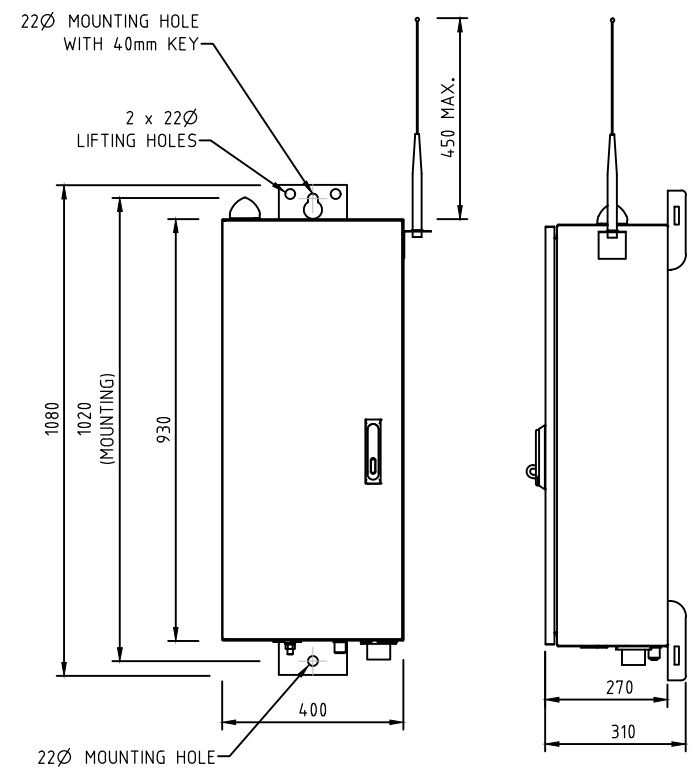
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D

E



VIEW FROM BELOW



MATERIAL	DESCRIPTION	TYPE	710262	710263
			OH/HV/REC/TELSTRA/MODEM	OH/HV/REC/OPTUS/MODEM
231320	SWITCH, ISOLATION 20A x 250V x 2P LV OD	EA	1	1
133187	ANTENNA, 4G, LTE, COLLINEAR, 5DBI	EA	1	1
133186	MODEM, ECR TELSTRA	EA	1	
133184	MODEM, ECR OPTUS	EA		1
133174	CABLE, ETHERNET CAT5E 1m BLUE PATCH LEAD	EA	1	1
133157	BRACKET, ANGLE 1.5mm L-SHAPED MB403SS	EA	1	1
133181	CABLE, POWER, CYBERTEC 1000 FUSED	EA	1	1
154484	SHEATH, FLEXIBLE SMOOTH, 20mm PVC BLACK	M	10	10
154483	CONDUIT TERMINATOR, M20 BRASS IP69K	EA	3	3
154482	LOCKNUT, HEX STEEL 20mm CONDUIT FITTING	EA	1	1
32342	BOLT, HEX HEAD M20 x 450mm GAL. C/W NUT	EA	2	2
66809	WASHER, CURVED SQUARE M20 100mm	EA	2	2
40442	NUT, HEX M20 THREAD GALVANISED STEEL	EA	2	2
323341	SADDLE, FULL 50 x 3mm 2-H 65mm CABLE GAL.	EA	2	2
50225	SCREW, COACH, HEX HEAD 10mm x 50mm GAL.	EA	4	4

NOTES:

1. REFER TO GENERAL NOTES.
2. EXCESS CONTROL CABLE TO BE COILED AND SECURED WITH 65mm CABLE SADDLES.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 02/12/2025

ALTERNATIONS	ORIGINAL ISSUE	

REFERENCE	
NEW DRAWING: SUPERSEDES D-OHC-E024-SD-001 D-OHC-E024-SD-002	

DRAWN	MEGAVAR PTY LTD
DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	TJANTZHA
CHECKED BY	MJEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE SWITCHGEAR CONSTRUCTIONS CONTROL CUBICLE SUB-ASSEMBLIES RECLOSER		SCALE NTS A4 REVISION A	
D - OHC - D101 - SD - 002			

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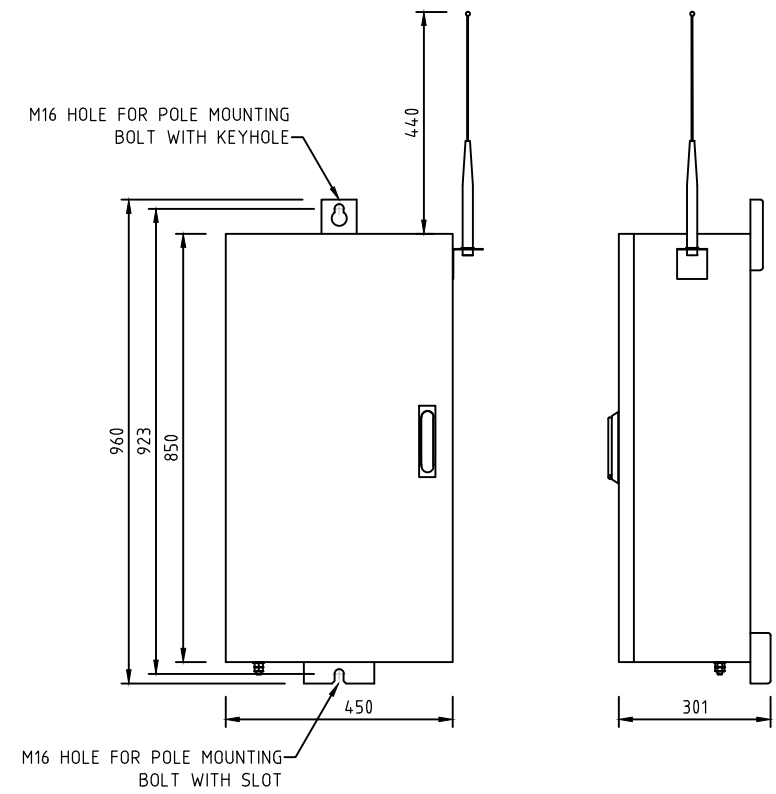
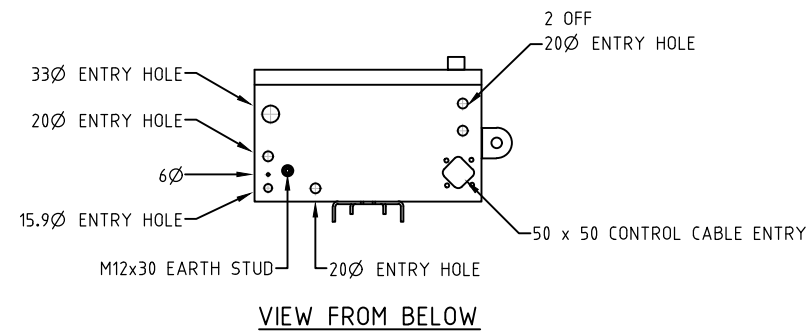
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D

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MATERIAL	DESCRIPTION	TYPE	710661	710662
			OH/HV/ALBS/TELSTRA/MODEM	OH/HV/ALBS/OPTUS/MODEM
133187	ANTENNA, 4G, LTE, COLLINEAR, 5DBI	EA	1	1
133186	MODEM, ECR TELSTRA	EA	1	
133184	MODEM, ECR OPTUS	EA		1
133174	CABLE, ETHERNET CAT5E 1m BLUE PATCH LEAD	EA	1	1
133157	BRACKET, ANGLE 1.5mm L-SHAPED MB403SS	EA	1	1
133181	CABLE, POWER, CYBERTEC 1000 FUSED	EA	1	1
154484	SHEATH, FLEXIBLE SMOOTH, 20mm PVC BLACK	M	10	10
32292	BOLT, HEX HEAD M16 x 450mm GAL. C/W NUT	EA	2	2
66808	WASHER, CURVED SQUARE M16 100mm	EA	2	2
40441	NUT, HEX M16 THREAD GALVANISED STEEL	EA	2	2
323341	SADDLE, FULL 50 x 3mm 2-H 65mm CABLE GAL.	EA	2	2
50225	SCREW, COACH, HEX HEAD 10mm x 50mm GAL.	EA	4	4

- NOTES:
- REFER TO GENERAL NOTES.
 - EXCESS CONTROL CABLE TO BE COILED AND SECURED WITH 65mm CABLE SADDLES.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 02/12/2025

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE	NEW DRAWING
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DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	TJNYZHA
CHECKED BY	MJEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS CONTROL CUBICLE SUB-ASSEMBLIES AUTO LOAD BREAK SWITCH	SCALE NTS
	D - OHC - D101 - SD - 003	A4
		REVISION \$1

DWG STATUS

BM DWG NO D-OHC-D101-SD-003

BM REV \$1

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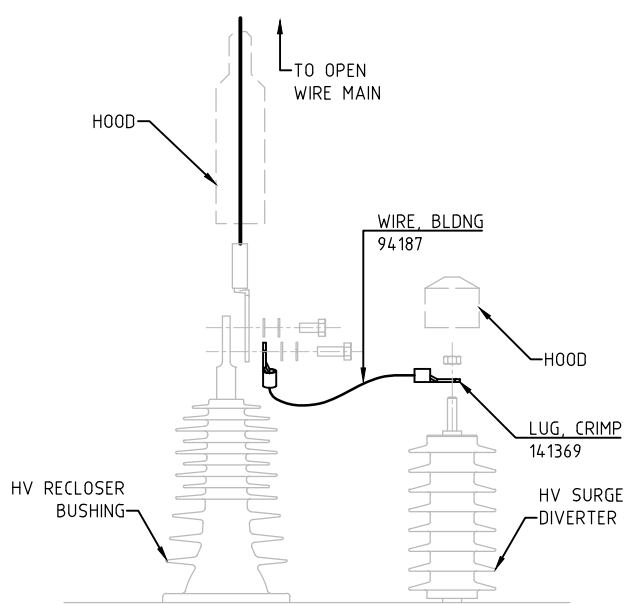
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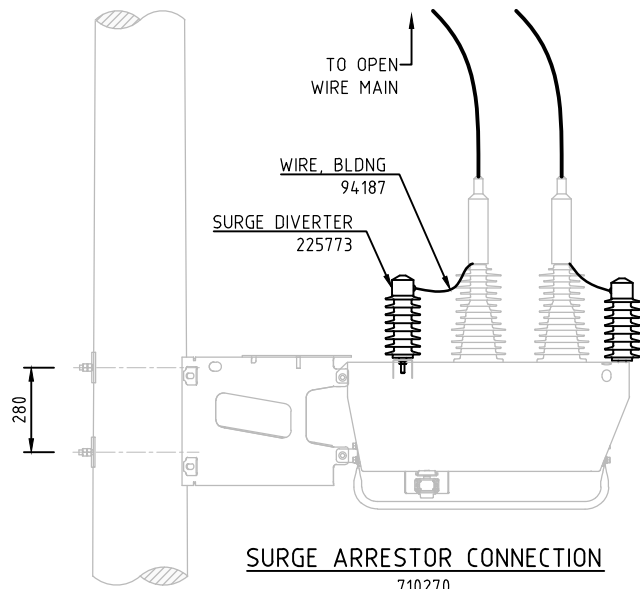
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ALTERATIONS
ORIGINAL ISSUE

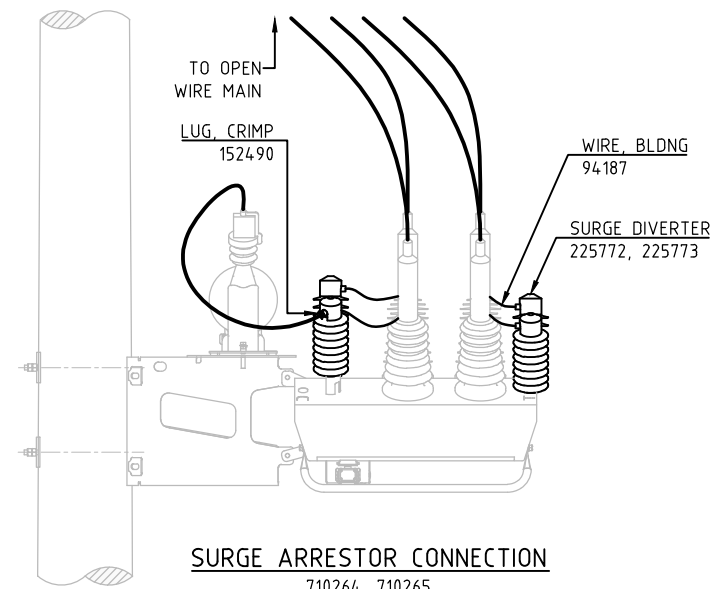


ATTACHMENT DETAILS



SURGE ARRESTOR CONNECTION

710270



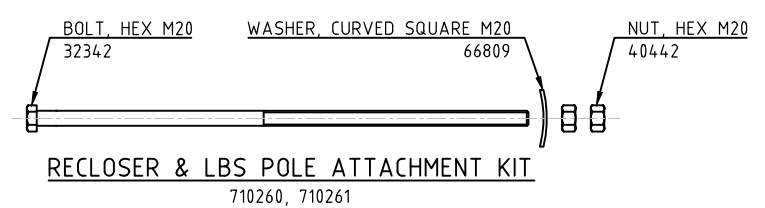
SURGE ARRESTOR CONNECTION

710264, 710265

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MATERIAL	DESCRIPTION	710260	710261
		OH/HV/REC/ATTACH/POLE	OH/HV/LBS/ATTACH/POLE
32292	BOLT, HEX HEAD M20 x 450mm GAL. C/W NUT	2	2
66809	WASHER, CURVED SQUARE M20 100mm	2	2
40442	NUT, HEX M20 THREAD GALVANISED STEEL	2	2



MATERIAL	DESCRIPTION	TYPE	710264	710265	710270
			OH/11/REC/ATTACH/SURGEARRESTOR	OH/22/REC/ATTACH/SURGEARRESTOR	OH/12.7/REC/ATTACH/SURGEARRESTOR
152490	LUG, CRIMP 50mm ² x M12 HOLE BI-METAL	EA	2	2	1
141369	LUG, CRIMP TERMINAL M12 x 35mm ² COPPER	EA	12	12	4
94187	WIRE, BLDNG 35mm ² x 19/1.53 x 0.6/1kV BLK	M	2	2	1
225772	SURGE DIVERTER, OD 10kA x 11kV	EA	6		
225773	SURGE DIVERTER, OD 10kA x 22kV	EA		6	2

REFERENCE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABL 24 167 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
NEW DRAWING				
DRAWN HEGAYAR PTY LTD DRAFTING CHECK HEGAYAR PTY LTD DESIGNED BY T.JOHYZHA CHECKED BY P.MEALY APPROVED BY B.PAPALIA DATE APPROVED 02-01-2024	D - OHC - D101 - SD - 004			

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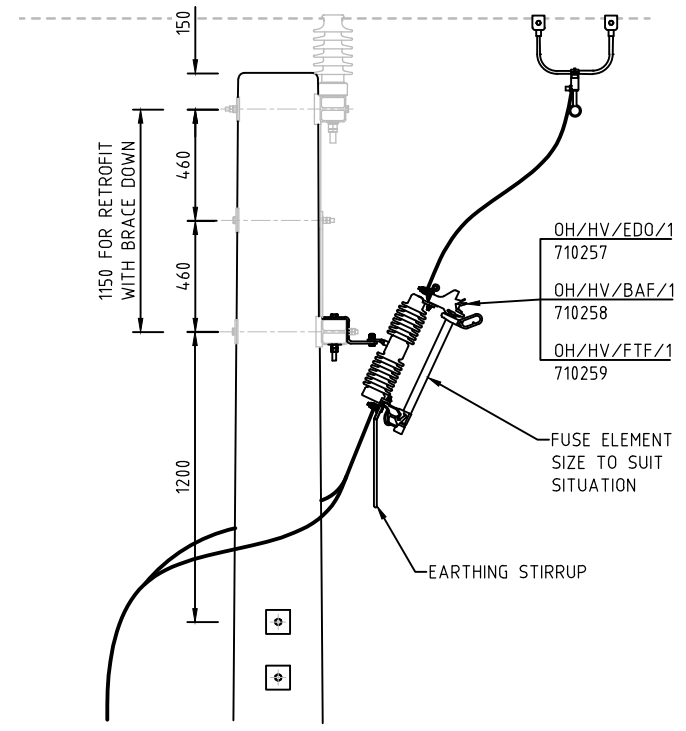
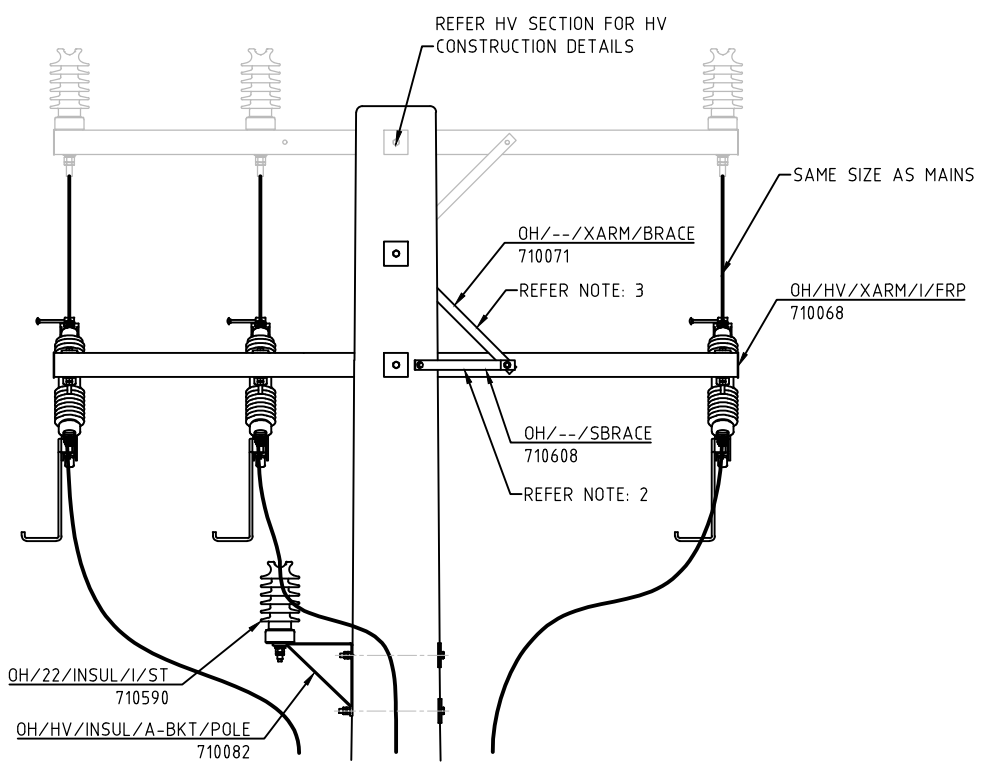
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NOTES:

1. REFER TO GENERAL NOTES.
2. CROSSARM BRACE 710608 FOR WOOD POLES ONLY. REQUIRES ONE END TO BE DRILLED FOR M16 BOLT.
3. CROSSARM CAN BE LOWERED TO 1150mm WHEN RETROFITTING AND BRACE FACING DOWN TO IMPROVE SAD'S.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MATERIAL	DESCRIPTION	710608
		OH/--/SBRACE
323317	BRACE, CROSSARM 40x5x500mm FLAT GAL.	1
50250	SCREW, COACH, HEX HEAD M12x100mm GAL.	1

MATERIAL	DESCRIPTION	710271	710272	710273	710274	710275	710276
		HV/EDO/1	HV/EDO/3	HV/BAF/1	HV/BAF/3	HV/FTF/1	HV/FTF/3
710068	OH, 11kV-33kV, XARM, INTERMEDIATE, FRP (OH/HV/XARM/I/FRP)	1	1	1	1	1	1
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1	1	1	1	1
710257	OH, HV, FUSE, EXPULSION DROPOUT, 1PH (OH/HV/EDO/1)	2	3				
710258	OH, HV, FUSE, BORIC ACID, 1PH (OH/HV/BAF/1)			2	3		
710259	OH, HV, FUSE, FAULT TAME, 1PH (OH/HV/FTF/1)					2	3
710082	OH, 11KV-22KV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT/POLE)		1		1		1
710590	OH, 22KV, INSULATOR, INTER TO ST XARM (OH/22/INSUL/I/ST)		1		1		1

EMF/PDF CREATION DATE 30-03-2026

ALTERATIONS ORIGINAL ISSUE

REFERENCE	
NEW DRAWING: SUPERSEDES D-OHC-E004-SD-001 D-OHC-E004-SD-002	

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TJNYZHA
CHECKED BY	MJEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN 24 167 357 299		NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS	
TITLE SWITCHGEAR CONSTRUCTIONS HV FUSE ASSEMBLIES FRP CROSSARM MOUNTED 11 OR 22KV USED WITH TRANSFORMERS		SCALE NTS	REVISION A4
D - OHC - D102 - SD - 001		B	

BM DWG NO D-OHC-D102-SD-001

BM REV B

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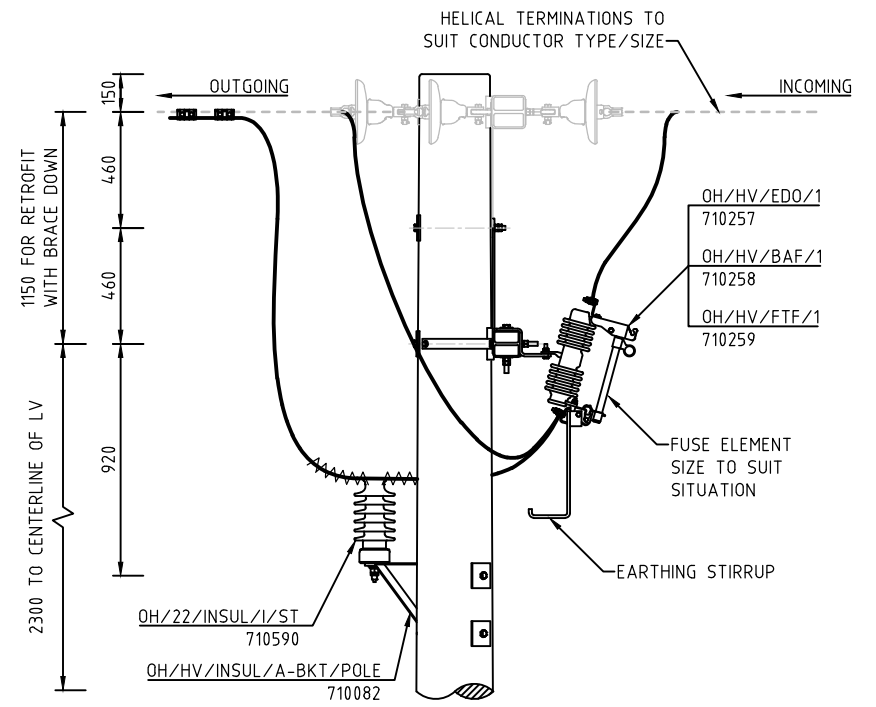
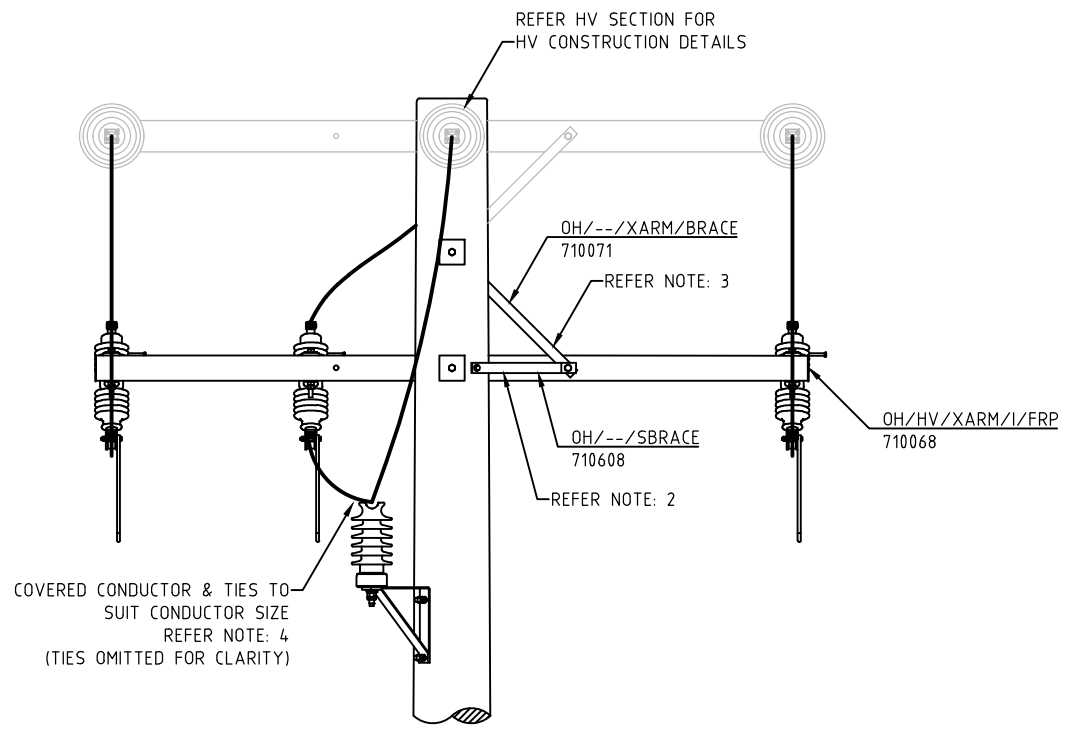
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MATERIAL	DESCRIPTION	710663	710664	710665	710666	710667	710668
		11/EDO/1/S	11/EDO/3/S	11/BAF/1/S	11/BAF/3/S	11/FTF/1/S	11/FTF/3/S
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1	1	1	1	1
710257	OH, HV, FUSE, EXPULSION DROPOUT, 1PH (OH/HV/EDO/1)	2	3				
710258	OH, HV, FUSE, BORIC ACID, 1PH (OH/HV/BAF/1)			2	3		
710259	OH, HV, FUSE, FAULT TAMER, 1PH (OH/HV/FTF/1)					2	3
710068	OH, 11kV-33kV, XARM, INTERMEDIATE, FRP (OH/HV/XARM/I/FRP)	1	1	1	1	1	1
710082	OH, 11kV-22kV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT/POLE)		1		1		1
710590	OH, 22kV, INSULATOR, INTER TO ST XARM (OH/22/INSUL/I/ST)		1		1		1
710608	OH/--/SBRACE (FOR WOOD POLE ONLY)	1	1	1	1	1	1

- NOTES:
1. REFER TO GENERAL NOTES.
 2. CROSSARM BRACE 710608 FOR WOOD POLES ONLY. REQUIRES ONE END TO BE DRILLED FOR M16 BOLT.
 3. CROSSARM CAN BE LOWERED TO 1150mm WHEN RETROFITTING AND BRACE FACING DOWN TO IMPROVE SAD'S.
 4. COVERED CONDUCTOR AND TIES WITH NON-TENSION CONNECTORS ARE PREFERRED FOR ALL LOOPS.
 5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

ALTERNATIONS	ORIGINAL ISSUE	

REFERENCE	
NEW DRAWING: SUPERSEDES D-OHC-E005-SD-001 D-OHC-E005-SD-002	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TJOHYZHKA
CHECKED BY	HJEALY
APPROVED BY	B/PAPALIA
DATE APPROVED	02-04-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS HV FUSE ASSEMBLIES INLINE FRP CROSSARM MOUNTED 11kV	SCALE NTS
	D - OHC - D102 - SD - 002	A4
		REVISION B

BM DWG NO D-OHC-D102-SD-002

BM REV B

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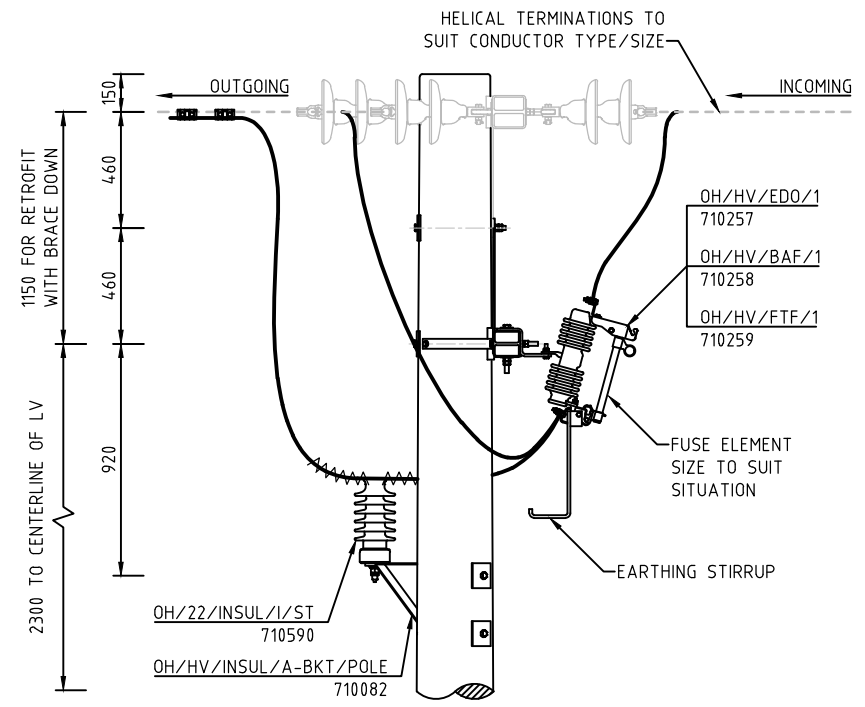
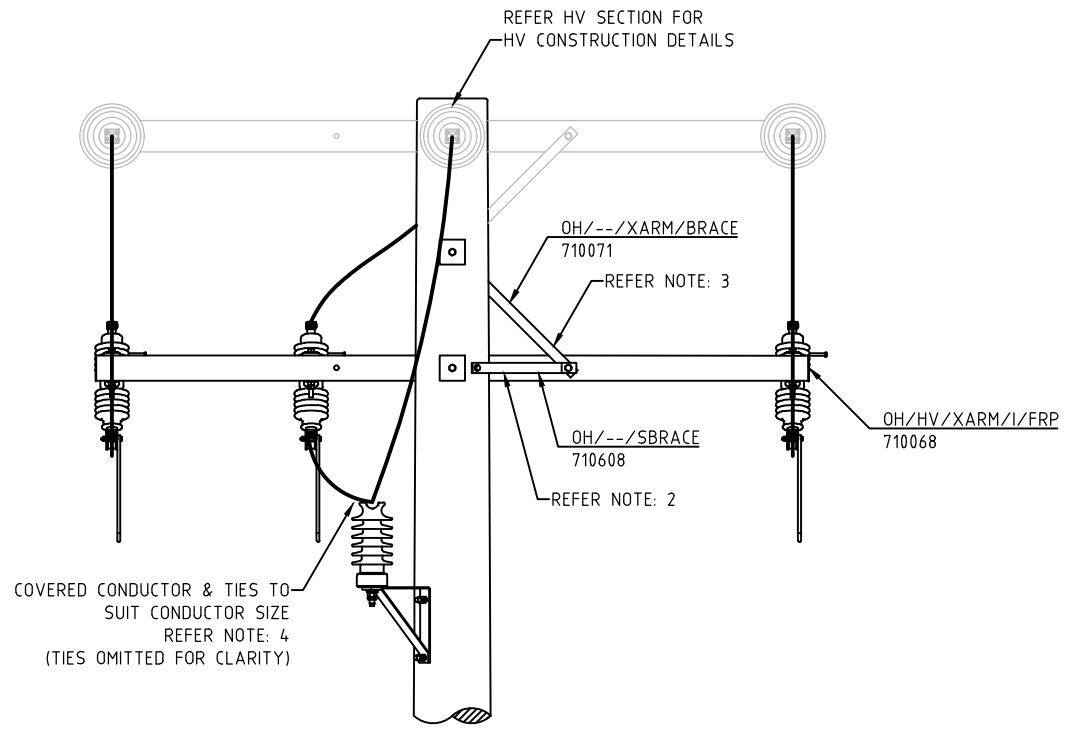
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MATERIAL	DESCRIPTION	710609	710610	710611	710612	710613	710614
		22/EDO/1/S	22/EDO/3/S	22/BAF/1/S	22/BAF/3/S	22/FTF/1/S	22/FTF/3/S
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1	1	1	1	1
710257	OH, HV, FUSE, EXPULSION DROPOUT, 1PH (OH/HV/EDO/1)	2	3				
710258	OH, HV, FUSE, BORIC ACID, 1PH (OH/HV/BAF/1)			2	3		
710259	OH, HV, FUSE, FAULT TAMER, 1PH (OH/HV/FTF/1)					2	3
710068	OH, 11kV-33kV, XARM, INTERMEDIATE, FRP (OH/HV/XARM/I/FRP)	1	1	1	1	1	1
710082	OH, 11kV-22kV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT/POLE)		1		1		1
710590	OH, 22kV, INSULATOR, INTER TO ST XARM (OH/22/INSUL/I/ST)		1		1		1
710608	OH/--/SBRACE (FOR WOOD POLE ONLY)	1	1	1	1	1	1

NOTES:

1. REFER TO GENERAL NOTES.
2. CROSSARM BRACE 710608 FOR WOOD POLES ONLY. REQUIRES ONE END TO BE DRILLED FOR M16 BOLT.
3. CROSSARM CAN BE LOWERED TO 1150mm WHEN RETROFITTING AND BRACE FACING DOWN TO IMPROVE SAD'S.
4. COVERED CONDUCTOR AND TIES WITH NON-TENSION CONNECTORS ARE PREFERRED FOR ALL LOOPS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS ORIGINAL ISSUE

REFERENCE NEW DRAWING: SUPERSEDES D-OHC-E005-SD-001 D-OHC-E005-SD-002	
--	--

DRAWN: ANSS DRAFTING CHECK: ANSS DESIGNED BY: T.JOHYZIKA CHECKED BY: H.MEALY APPROVED BY: B.PAPALIA DATE APPROVED: 02-01-2026	TITLE: SWITCHGEAR CONSTRUCTIONS HV FUSE ASSEMBLIES INLINE FRP CROSSARM MOUNTED 22kV SCALE: NTS REVISION: A4, B

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D - OHC - D102 - SD - 003	

BM DWG NO D-OHC-D102-SD-003

BM REV B

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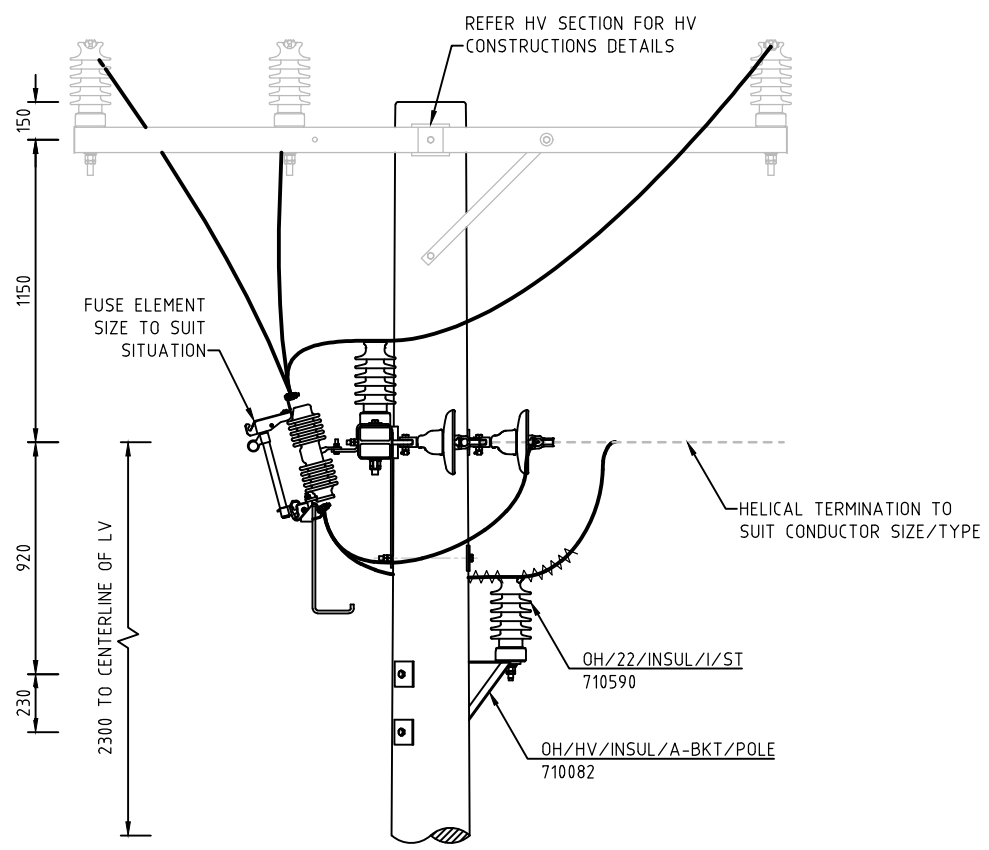
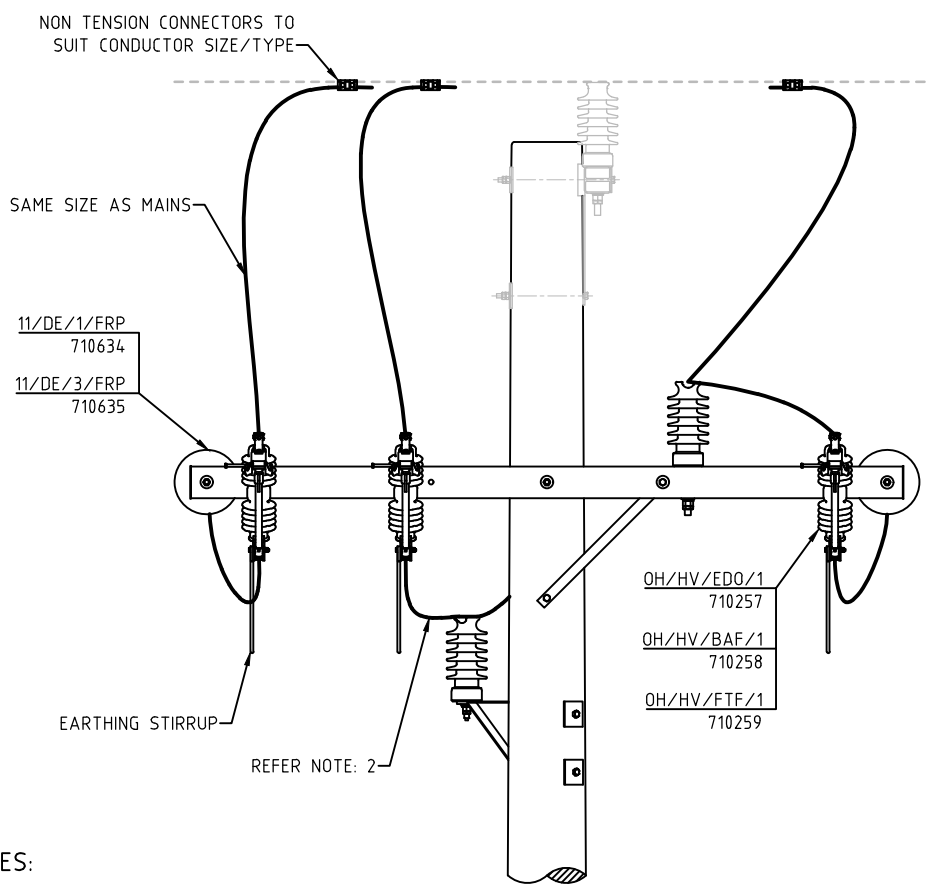
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ALTERATIONS
ORIGINAL ISSUE



- NOTES:
1. REFER TO GENERAL NOTES.
 2. COVERED CONDUCTOR AND TIES WITH NON-TENSION CONNECTORS ARE PREFERRED FOR ALL LOOPS.
 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MATERIAL	DESCRIPTION	710669	710670	710671	710672	710673	710674
		11/EDO/1/T	11/EDO/3/T	11/BAF/1/T	11/BAF/3/T	11/FTF/1/T	11/FTF/3/T
710634	11kV, POLETOP DEAD END, 1PH (11/DE/1/FRP)	1		1		1	
710635	11kV, POLETOP DEAD END, 3PH (11/DE/3/FRP)		1		1		1
710257	OH, HV, FUSE, EXPULSION DROPOUT, 1PH (OH/HV/EDO/1)	2	3				
710258	OH, HV, FUSE, BORIC ACID, 1PH (OH/HV/BAF/1)			2	3		
710259	OH, HV, FUSE, FAULT TAMER, 1PH (OH/HV/FTF/1)					2	3
710080	OH, 22kV, INSULATOR, INTER TO FRP XARM (OH/22/INSUL/1/FRP)	1	1	1	1	1	1
710082	OH, 11kV-22kV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT)		1		1		1
710590	OH, 22kV, INSULATOR, INTER TO ST XARM (OH/22/INSUL/1/ST)		1		1		1

REFERENCE NEW DRAWING: SUPERSEDES D-OHC-E006-SD-001 D-OHC-E006-SD-002			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN 24 167 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
DRAWN: ANSS DRAFTING CHECK: ANSS DESIGNED BY: T.JOHYZHKA CHECKED BY: H.MEALY APPROVED BY: S.PAPALIA DATE APPROVED: 02-04-2026		TITLE SWITCHGEAR CONSTRUCTIONS HV FUSE ASSEMBLIES TEE OFF FRP CROSSARM MOUNTED 11kV		SCALE NTS A4 REVISION B
D - OHC - D102 - SD - 004				

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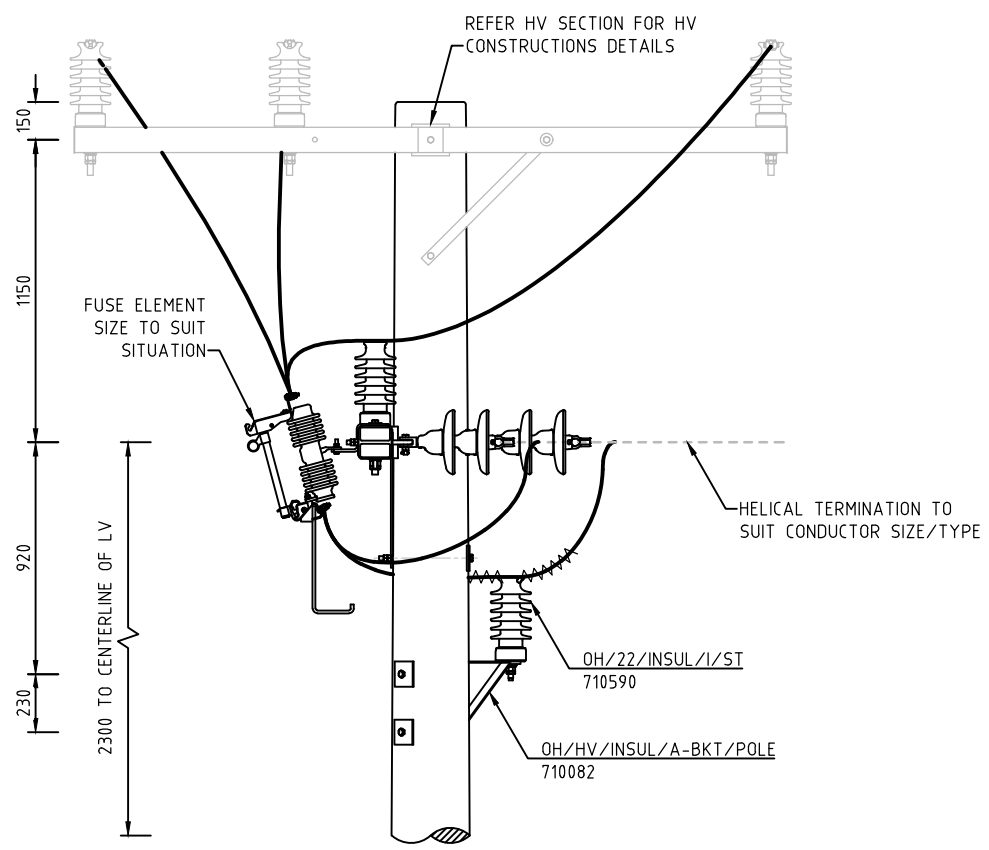
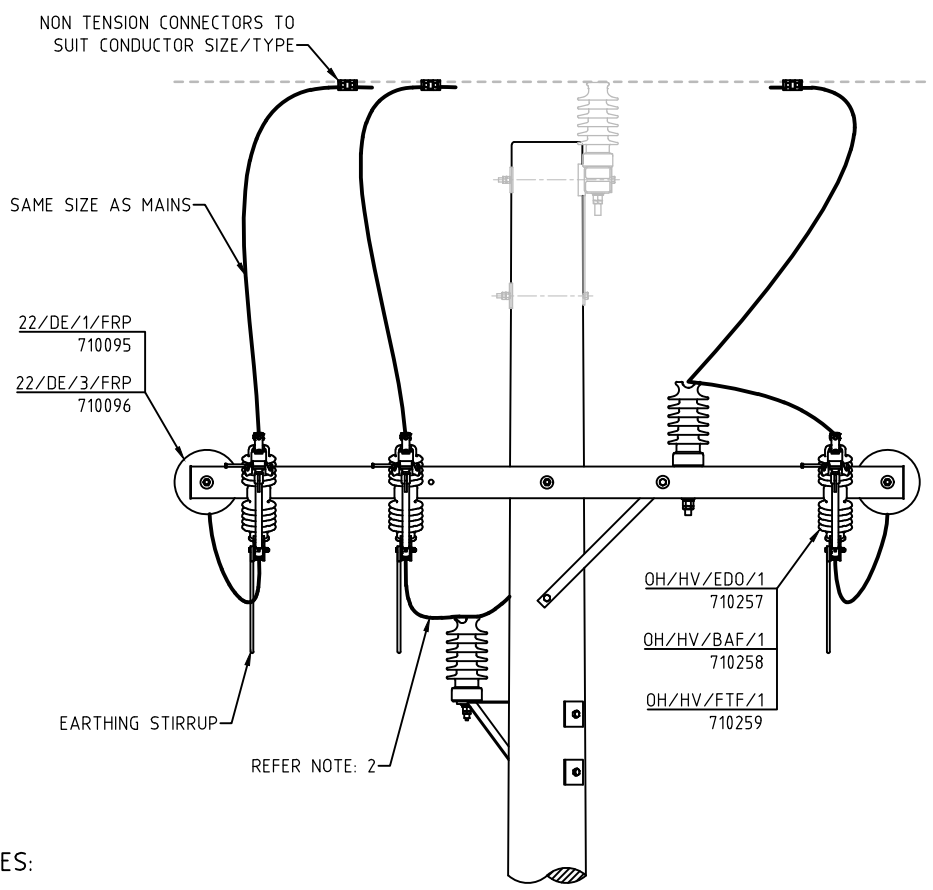
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ALTERATIONS ORIGINAL ISSUE



- NOTES:
1. REFER TO GENERAL NOTES.
 2. COVERED CONDUCTOR AND TIES WITH NON-TENSION CONNECTORS ARE PREFERRED FOR ALL LOOPS.
 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MATERIAL	DESCRIPTION	710615	710616	710617	710618	710619	710620
		22/EDO/1/T	22/EDO/3/T	22/BAF/1/T	22/BAF/3/T	22/FTF/1/T	22/FTF/3/T
710095	22kV, POLETOP DEAD END, 1PH (22/DE/1/FRP)	1		1		1	
710096	22kV, POLETOP DEAD END, 3PH (22/DE/3/FRP)		1		1		1
710257	OH, HV, FUSE, EXPULSION DROPOUT, 1PH (OH/HV/EDO/1)	2	3				
710258	OH, HV, FUSE, BORIC ACID, 1PH (OH/HV/BAF/1)			2	3		
710259	OH, HV, FUSE, FAULT TAMER, 1PH (OH/HV/FTF/1)					2	3
710080	OH, 22kV, INSULATOR, INTER TO FRP XARM (OH/22/INSUL/1/FRP)	1	1	1	1	1	1
710082	OH, 11kV-22kV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT)		1		1		1
710590	OH, 22kV, INSULATOR, INTER TO ST XARM (OH/22/INSUL/1/ST)		1		1		1

REFERENCE NEW DRAWING: SUPERSEDES D-OHC-E006-SD-001 D-OHC-E006-SD-002			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABL 24 167 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
DRAWN: ANSS DRAFTING CHECK: ANSS DESIGNED BY: T.JOHYZHKA CHECKED BY: M.JEALY APPROVED BY: B.PAPALIA DATE APPROVED: 02-01-2024		TITLE: SWITCHGEAR CONSTRUCTIONS HV FUSE ASSEMBLIES TEE OFF FRP CROSSARM MOUNTED 22kV		SCALE: NTS REVISION: A4, B
D - OHC - D102 - SD - 005		D - OHC - D102 - SD - 005		SCALE: A4

EMF/PDF CREATION DATE 30/03/2026

BM DWG NO D-OHC-D102-SD-005

BM REV B

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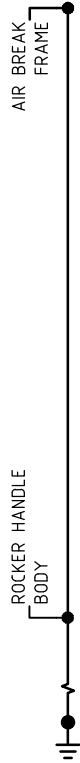
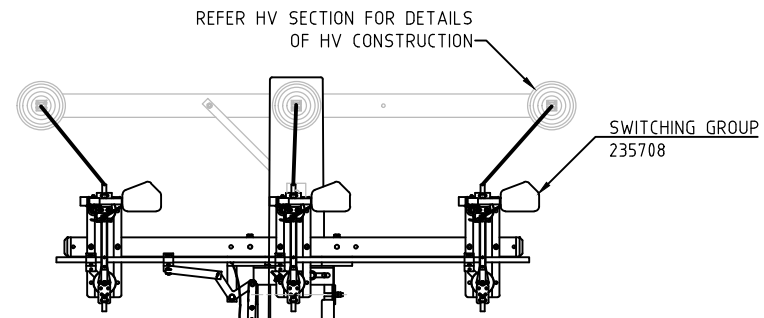
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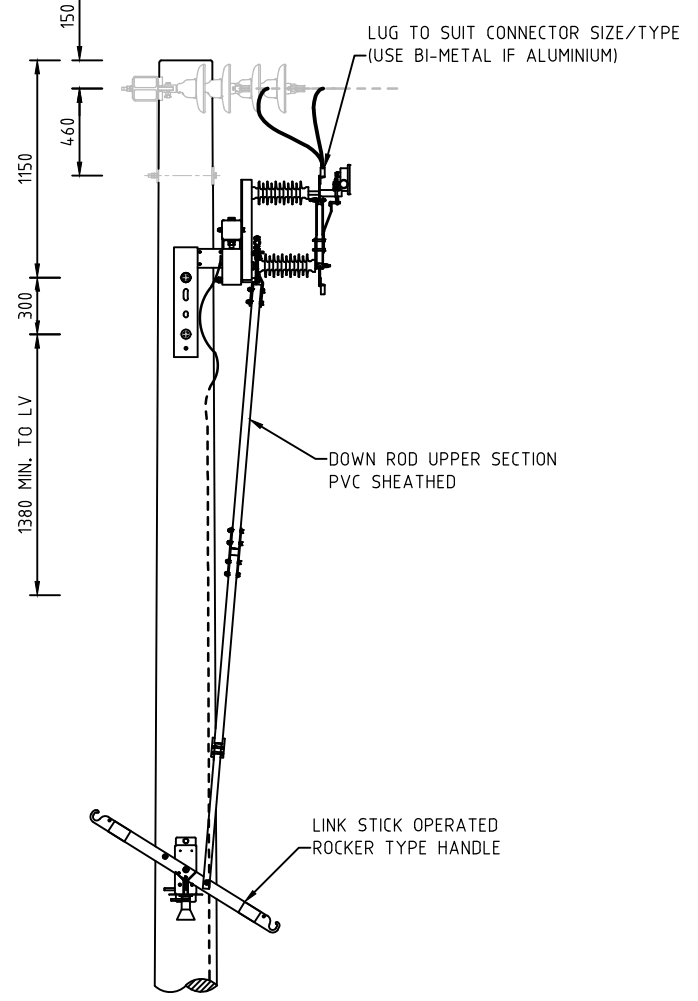
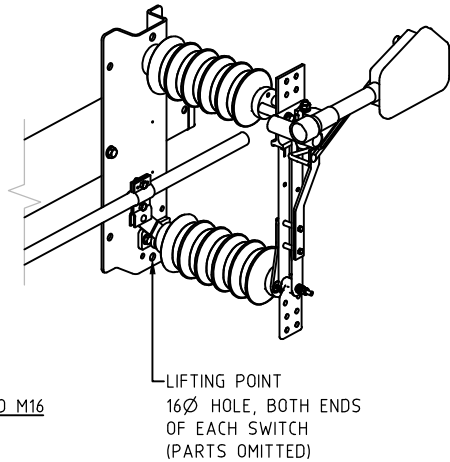
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- BOLT, HEX M16 32296
- WASHER, ROUND M16 65158
- NUT, HEX M16 40441
- EARTH CONNECTED TO ROCKER ARM
- BOLT, HEX M16 32296
- WASHER, SQUARE CURVED M16 66808
- NUT, HEX M16 40441
- REFER EARTHING SECTION FOR EARTHING DETAILS



MATERIAL	DESCRIPTION	710298
		HV/ABS/3/VERT
235708	SWITCHING GROUP, 24kV x 3P HOR/VERT CW-AD	1
32296	BOLT, HEX HEAD M16 x 550mm GAL. C/W NUT	4
66808	WASHER, CURVED SQUARE M16 100mm	2
65158	WASHER, FLAT ROUND M16 x 50mm GAL.	4
40441	NUT, HEX M16 THREAD GALVANISED STEEL	4

- NOTES:
- REFER TO GENERAL NOTES.
 - ON STOBIE POLES USE POLE HANDLE ADAPTER KIT SI: 235711.
 - MAINTAIN MINIMUM PHASE TO EARTH CLEARANCE OF 310mm.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 02/12/2025

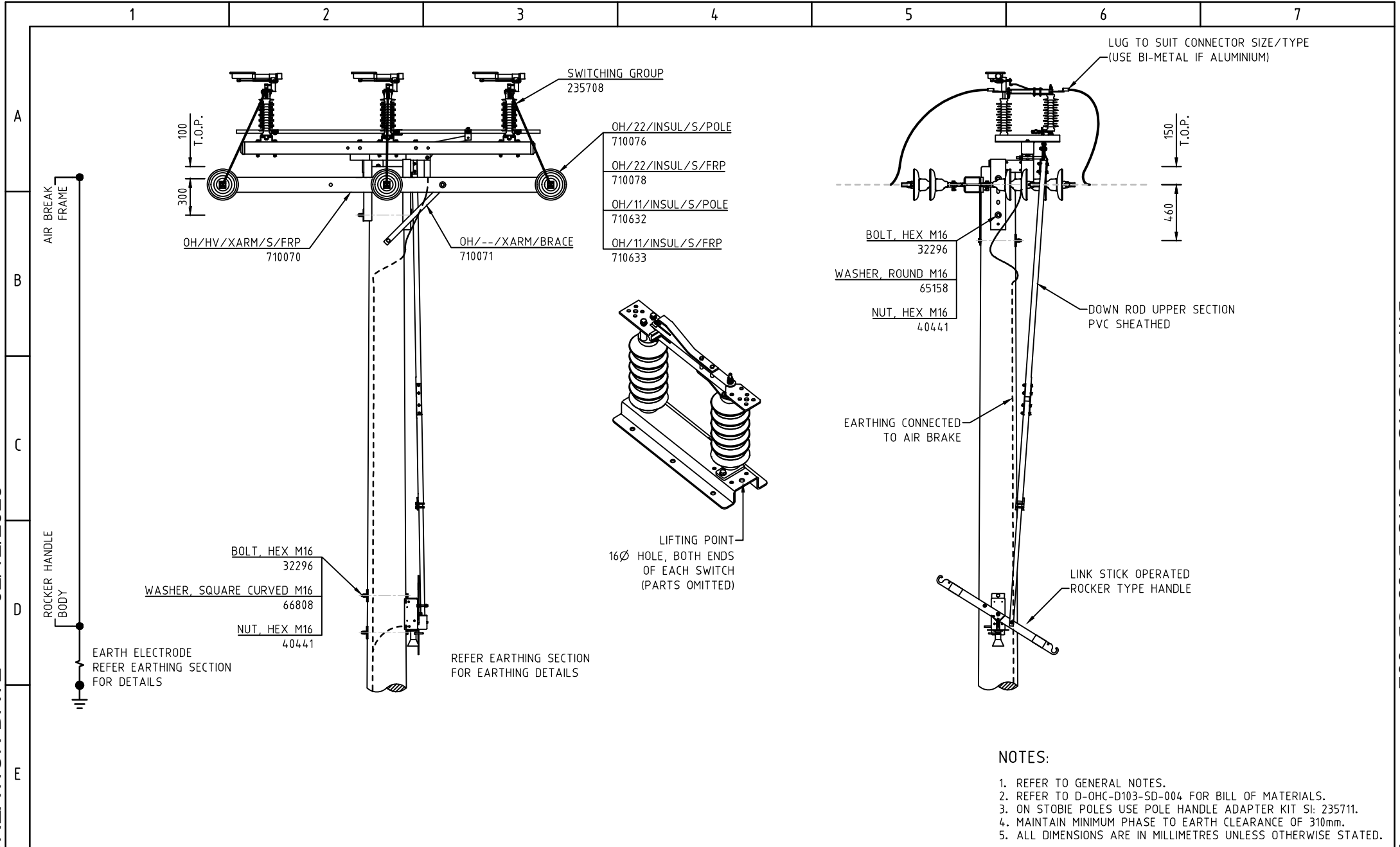
ALTERATIONS	ORIGINAL ISSUE	REFERENCE
		NEW DRAWING: SUPERSEDES D-OHC-E017-SD-001 D-OHC-E017-SD-002

TasNetworks	
DRAWN	HEGAYAR PTY LTD
DRAFTING CHECK	HEGAYAR PTY LTD
DESIGNED BY	TJAYZHKA
CHECKED BY	MJEALY
APPROVED BY	BJPAPALIA
DATE APPROVED	02-01-2024


© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN 24 107 357 299		NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
TITLE	SWITCHGEAR CONSTRUCTIONS AIR BREAK SWITCH ASSEMBLIES VERTICAL ABS 11 OR 22kV	SCALE NTS
D - OHC - D103 - SD - 001		REVISION A

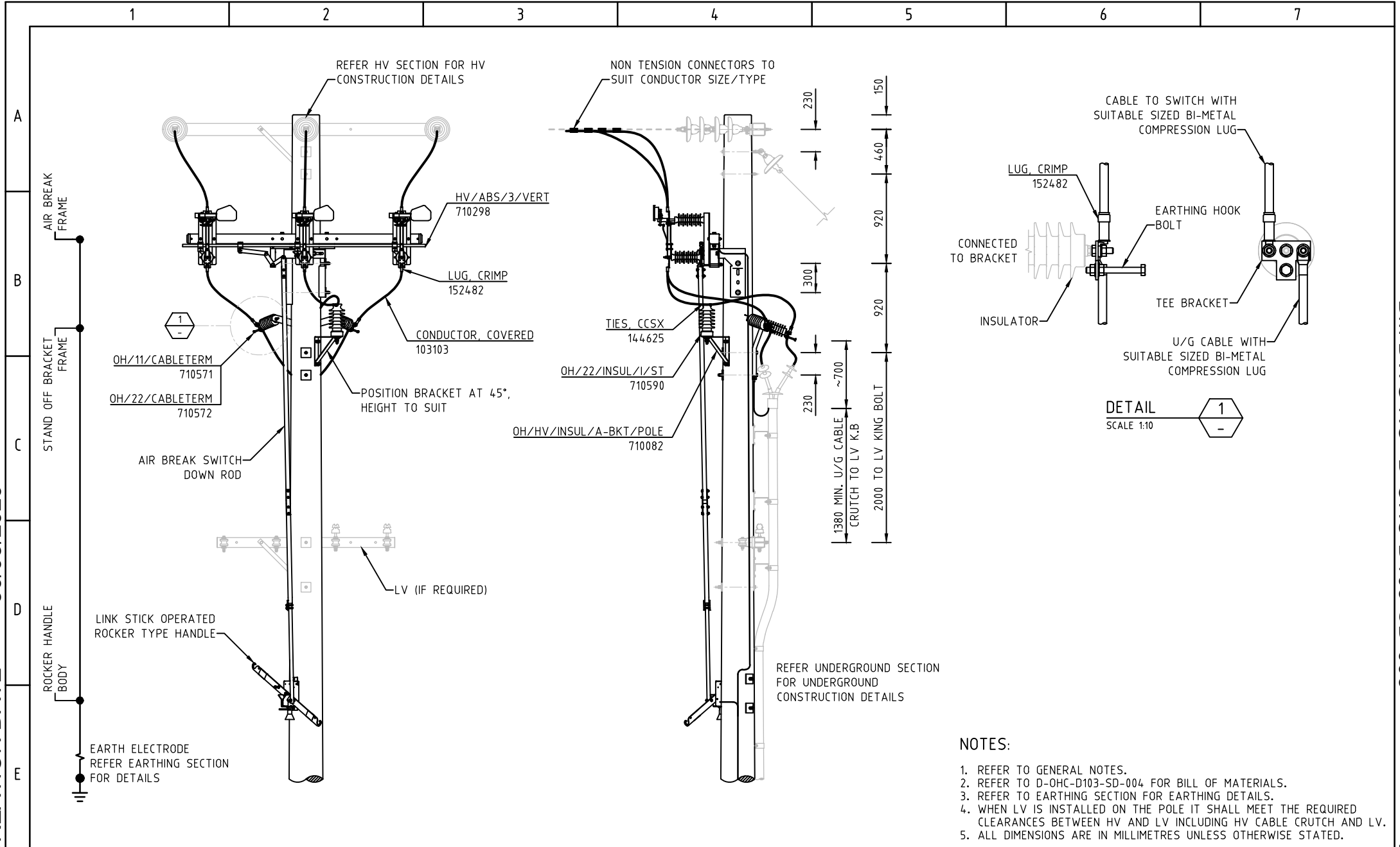
BM DWG NO D-OHC-D103-SD-001

BM REV A



- NOTES:
1. REFER TO GENERAL NOTES.
 2. REFER TO D-OHC-D103-SD-004 FOR BILL OF MATERIALS.
 3. ON STOBIE POLES USE POLE HANDLE ADAPTER KIT SI: 235711.
 4. MAINTAIN MINIMUM PHASE TO EARTH CLEARANCE OF 310mm.
 5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 02/12/2025	ALTERATIONS ORIGINAL ISSUE	REFERENCE	 TasNetworks trading as TasNetworks ABL 24 107 357 299	© Tasmanian Networks PTY. LTD. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS.	TITLE	SCALE
		NEW DRAWING: SUPERSEDES D-OHC-E016-SD-001 D-OHC-E016-SD-002			SWITCHGEAR CONSTRUCTIONS AIR BREAK SWITCH ASSEMBLIES HORIZONTAL ABS 11 OR 22kV	NTS A4 REVISION A
D - OHC - D103 - SD - 002						



NOTES:

1. REFER TO GENERAL NOTES.
2. REFER TO D-OHC-D103-SD-004 FOR BILL OF MATERIALS.
3. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
4. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV INCLUDING HV CABLE CRUTCH AND LV.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS	ORIGINAL ISSUE
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REFERENCE	NEW DRAWING
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TasNetworks	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ARYZHA
CHECKED BY	M.EALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN 24 167 357 299		NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS
TITLE	SWITCHGEAR CONSTRUCTIONS AIR BREAK SWITCH ASSEMBLIES VERTICAL ABS - HV TO U/G CABLE 11 OR 22kV	SCALE NTS
D - OHC - D103 - SD - 003		A4
		REVISION B

BM DWG NO D-OHC-D103-SD-003

BM REV B

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MATERIAL LIST FOR D-OHC-D103-SD-002

MATERIAL	DESCRIPTION	710675	710310
		11/ABS/3/HOR	22/ABS/3/HOR
710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	1
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1
710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)		1
710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)		2
710632	OH, 11kV, INSULATORS, STRAIN TO POLE (OH/11/INSUL/S/POLE)	1	
710633	OH, 11kV, INSULATORS, STRAIN TO FRP XARM (OH/11/INSUL/S/FRP)	2	
235708	SWITCHING GROUP, 24kV x 3P HOR/VERT CW-AD	1	1
32296	BOLT,HEX HEAD M16 x 550mm GAL. C/W NUT	4	4
66808	WASHER, CURVED SQUARE M16 100mm	2	2
65158	WASHER, FLAT ROUND M16 x 50mm GAL.	4	4
40441	NUT, HEX M16 THREAD GALVANISED STEEL	4	4

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MATERIAL LIST FOR D-OHC-D103-SD-003


MATERIAL	DESCRIPTION	710621	710622
		11/ABS/3/VERT/BOLT-UG	22/ABS/3/VERT/BOLT-UG
710298	POLETOP, HV, ABS, 3PH, VERT MOUNTING (HV/ABS/3/VERT)	1	1
710082	OH, 11kV-22kV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT/POLE)	1	1
710590	OH, 22kV, INSULATOR, INTER TO ST XARM (OH/22/INSUL/I/ST)	1	1
710571	OH/11/CABLETERM	1	
710572	OH/22/CABLETERM		1
152482	LUG, CRIMP 185mm ² x M12 HOLE BI-METAL T/P	6	6
144625	TIE, TOP & SIDE 159mm CCSX	2	2
103103	CONDUCTOR, COVERED AAAC 159mm	6	6

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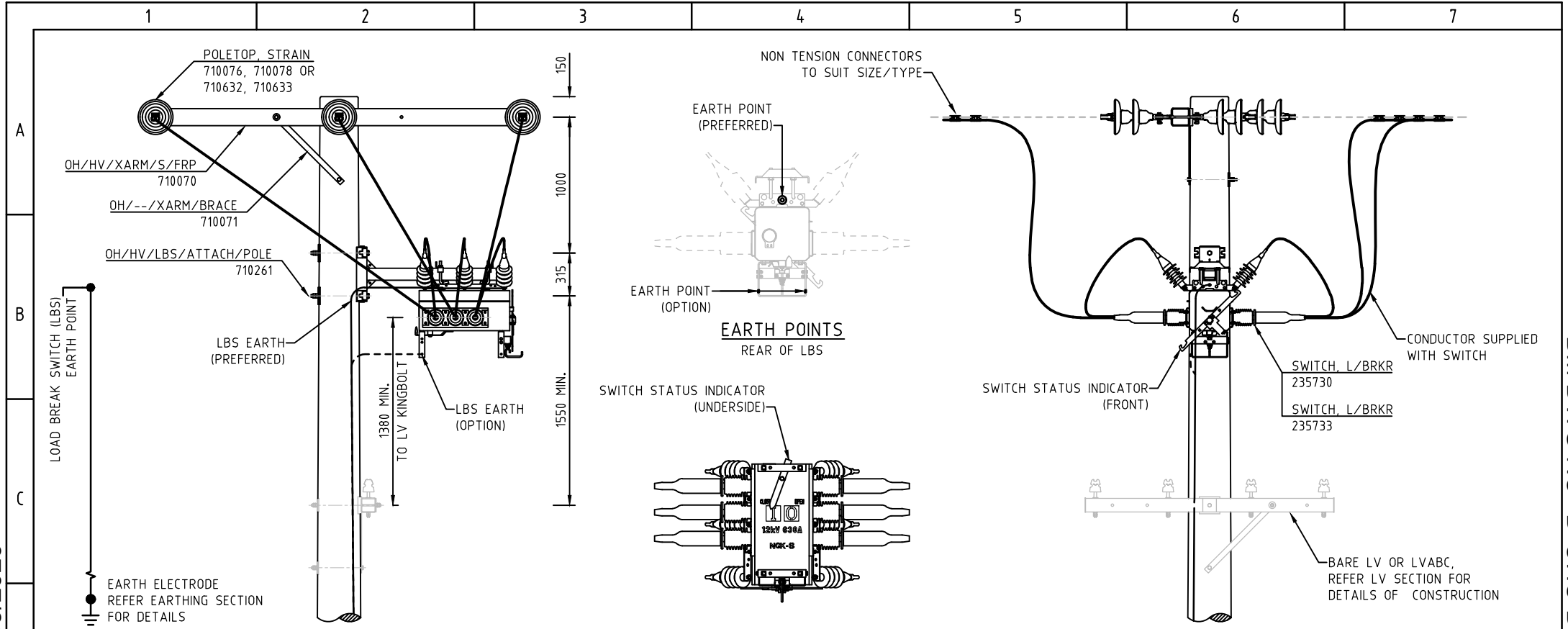
EMF/PDF CREATION DATE 02/12/2025

ALTERATIONS ORIGINAL ISSUE

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NEW DRAWING	

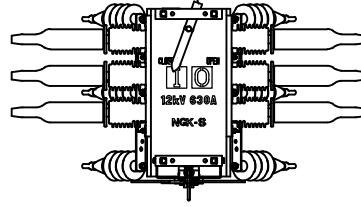
 TasNetworks	
DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	T.AMYZHA
CHECKED BY	MJEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE SWITCHGEAR CONSTRUCTIONS AIR BREAK SWITCH ASSEMBLIES BILL OF MATERIALS, 11 OR 22kV		SCALE NTS	REVISION A
D - OHC - D103 - SD - 004		A4	



- NOTES:
1. REFER TO GENERAL NOTES.
 2. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV.
 3. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
 4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MARKINGS ON BOTTOM OF SWITCH



MATERIAL	DESCRIPTION	710283	710284	710600	710601
		11/MLBS/NGK/--/BOLT	22/MLBS/NGK/--/BOLT	11/MLBS/NGK/--/RETROFIT	22/MLBS/NGK/--/RETROFIT
710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	1		
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1		
710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)		1		
710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)		2		1
710632	OH, 11kV, INSULATORS, STRAIN TO POLE (OH/11/INSUL/S/POLE)	1			
710633	OH, 11kV, INSULATORS, STRAIN TO FRP XARM (OH/11/INSUL/S/FRP)	2			
710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	1	1	1	
235730	SWITCH, L/BRKR LBS 11kV MANUAL N-A	1		1	
235733	SWITCH, L/BRKR LBS 22kV MANUAL N-A		1		1

ALTERATIONS	ORIGINAL ISSUE	REFERENCE	TasNetworks Tasmanian Networks PTY. LTD. trading as TasNetworks ABL 24 187 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS.	TITLE	SCALE
					NEW DRAWING: SUPERSEDES D-OHC-E036-SD-001 D-OHC-E036-SD-002	SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES NGK MANUAL LBS - BELOW HV 11 OR 22kV
DRAFTING CHECK ANSS DESIGNED BY T.AMYZHA CHECKED BY P.MEALY APPROVED BY B.PAPALIA DATE APPROVED 02-04-2024		D - OHC - D104 - SD - 001				

EMF/PDF CREATION DATE 30/03/2026

BM DWG NO D-OHC-D104-SD-001

BM REV B

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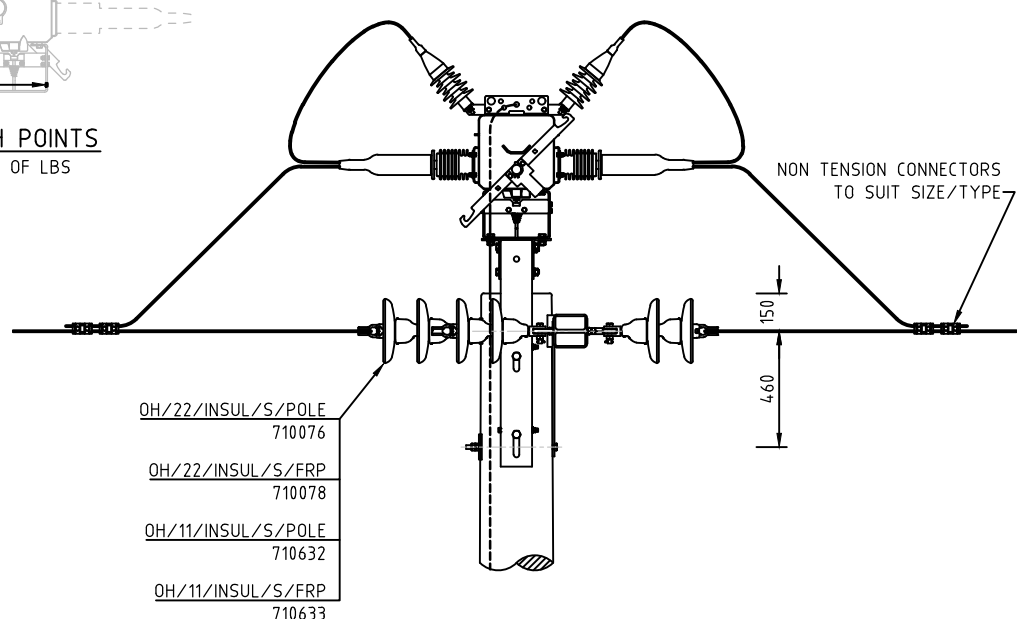
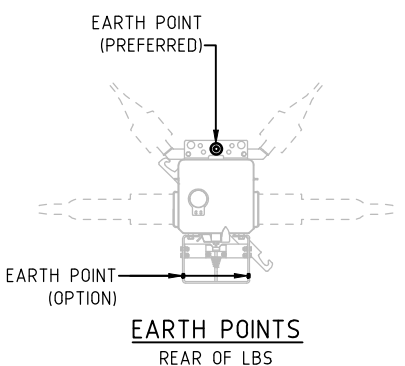
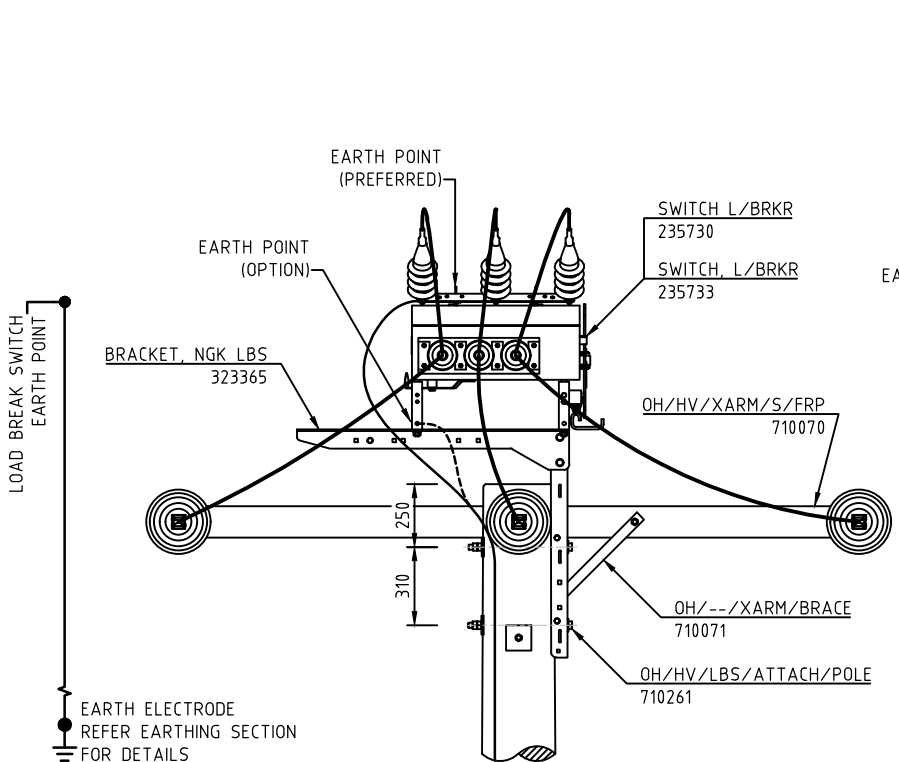
A

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- NOTES:
1. REFER TO GENERAL NOTES.
 2. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MATERIAL	DESCRIPTION	710285	710286	710598	710599
		11/MLBS/NGK/--/POLETOP	22/MLBS/NGK/--/POLETOP	11/MLBS/NGK/--/RETRO-PT	22/MLBS/NGK/--/RETRO-PT
710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	1		
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1		
710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)		1		
710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)		2		
710632	OH, 11kV, INSULATORS, STRAIN TO POLE (OH/11/INSUL/S/POLE)	1			
710633	OH, 11kV, INSULATORS, STRAIN TO FRP XARM (OH/11/INSUL/S/FRP)	2			
235730	SWITCH, L/BRKR LBS 11kV MANUAL N-A	1		1	
235733	SWITCH, L/BRKR LBS 22kV MANUAL N-A		1		1
710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	1	1	1	1
323365	BRACKET, MOUNTING, POLETOP, TO SUIT NGK LBS	1	1	1	1

EMF/PDF CREATION DATE 30/03/2026

ALTERNATIONS ORIGINAL ISSUE

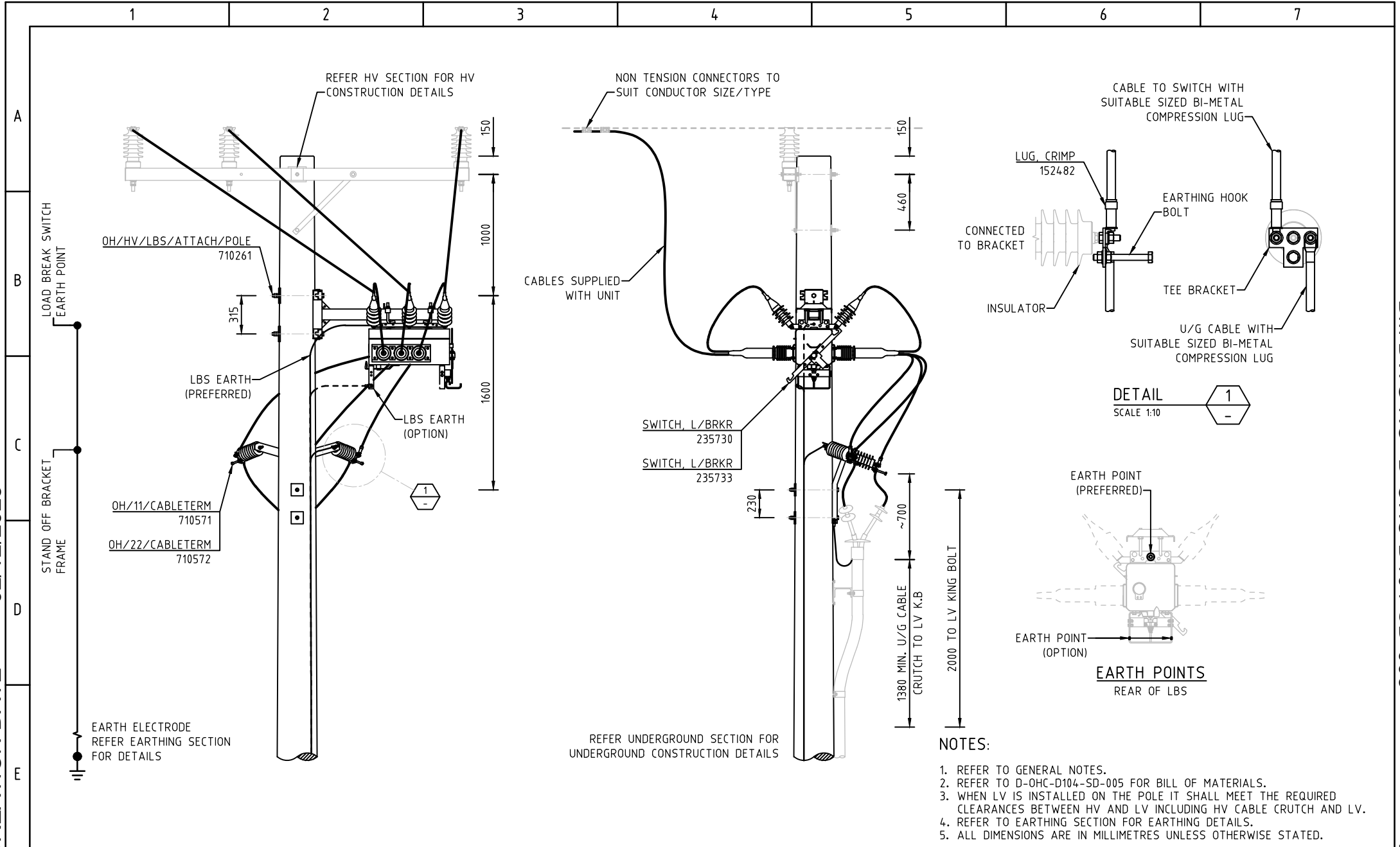
REFERENCE	
NEW DRAWING: SUPERSEDES	D-OHC-E046-SD-001

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.JAYZHA
CHECKED BY	M.EALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES NGK MANUAL LBS - ABOVE HV 11 OR 22kV		SCALE NTS	REVISION A4 B
D - OHC - D104 - SD - 002			

BM DWG NO D-OHC-D104-SD-002

BM REV B



NOTES:

1. REFER TO GENERAL NOTES.
2. REFER TO D-OHC-D104-SD-005 FOR BILL OF MATERIALS.
3. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV INCLUDING HV CABLE CRUTCH AND LV.
4. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

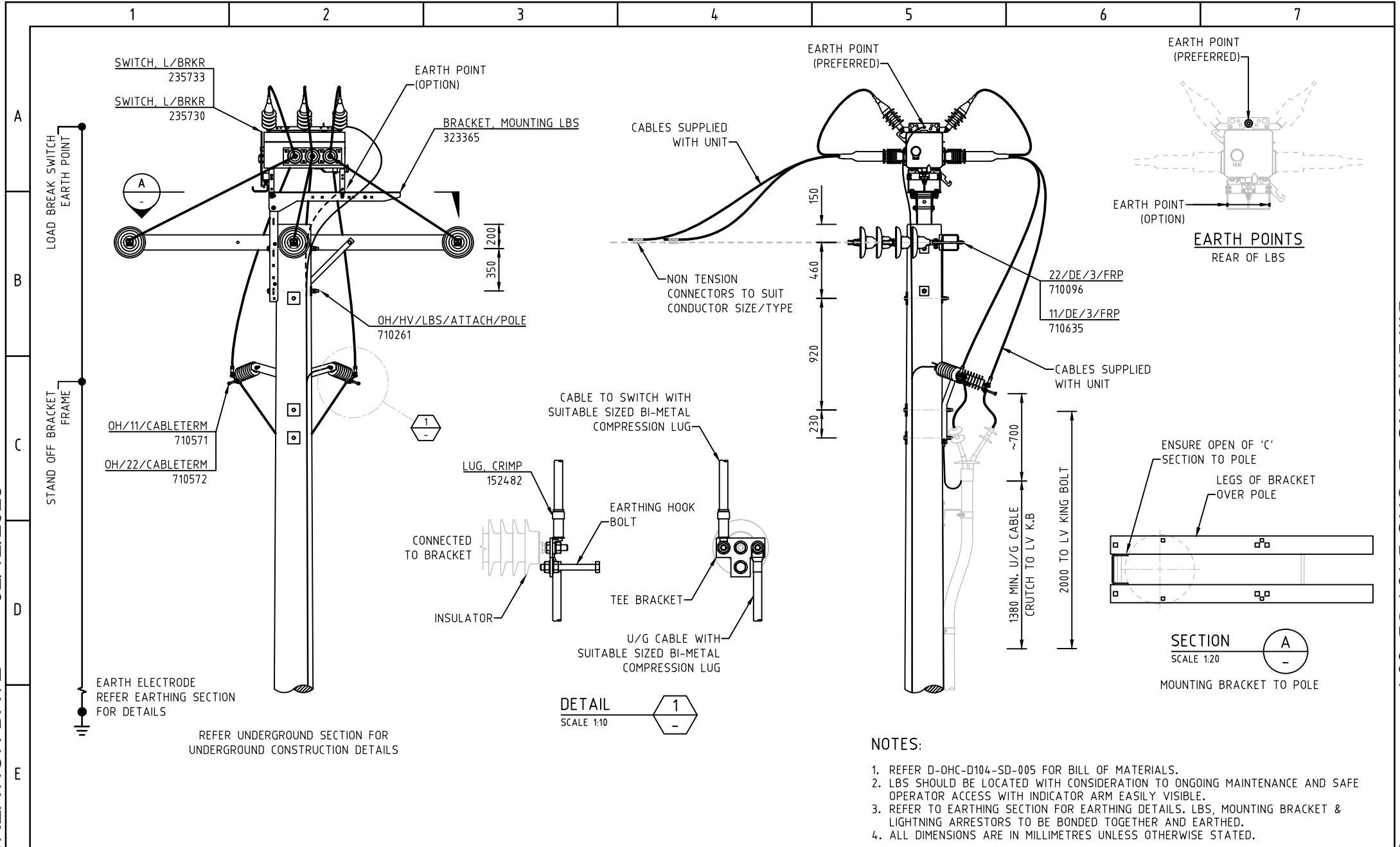
EMF/PDF CREATION DATE 02/12/2025

ALTERATIONS	ORIGINAL ISSUE

REFERENCE	
NEW DRAWING: SUPERSEDES D-OHC-E037-SD-001	

DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	TJAYZHKA
CHECKED BY	MJEALY
APPROVED BY	BJPAPALIA
DATE APPROVED	02-01-2024

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TITLE		SCALE	
SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES NGK MANUAL LBS - HV TO U/G CABLE 11 OR 22kV		NTS A4	
D - OHC - D104 - SD - 003		REVISION A	



- NOTES:
1. REFER D-OHC-D104-SD-005 FOR BILL OF MATERIALS.
 2. LBS SHOULD BE LOCATED WITH CONSIDERATION TO ONGOING MAINTENANCE AND SAFE OPERATOR ACCESS WITH INDICATOR ARM EASILY VISIBLE.
 3. REFER TO EARTHING SECTION FOR EARTHING DETAILS. LBS, MOUNTING BRACKET & LIGHTNING ARRESTORS TO BE BONDED TOGETHER AND EARTHED.
 4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 02/12/2025

BM DWG NO D-OHC-D104-SD-004

BM REV A

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE	
NEW DRAWING	

DRAWN	HEGAYAR PTY LTD
DRAFTING CHECK	HEGAYAR PTY LTD
DESIGNED BY	TJNYZHA
CHECKED BY	MJEALY
APPROVED BY	BPAPALIA
DATE APPROVED	02-01-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES LBS ABOVE POLE - HV TO U/G CABLE 11 OR 22kV	SCALE NTS
		A4
		REVISION A
D - OHC - D104 - SD - 004		

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MATERIAL LIST FOR D-OHC-D104-SD-003

MANUAL LBS TO UG CABLE. HV POLE TOP TO BE SELECTED FROM SECTION 3. DOES NOT INCLUDE HV CABLE OR COMPONENTS.

MATERIAL	DESCRIPTION	710602	710603
		11/MLBS/NGK/--/BOLT-UG	22/MLBS/NGK/--/BOLT-UG
710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	1	1
235730	SWITCH, L/BRKR LBS 11kV MANUAL N-A	1	
235733	SWITCH, L/BRKR LBS 22kV MANUAL N-A		1
710571	OH/11/CABLETERM	1	
710572	OH/22/CABLETERM		1
152482	LUG, CRIMP 185mm2 x M12 HOLE BI-METAL T/P	3	3

C

MATERIAL LIST FOR D-OHC-D104-SD-004

MANUAL LBS TO UG CABLE. HV POLE TOP TO BE SELECTED FROM SECTION 3. DOES NOT INCLUDE HV CABLE OR COMPONENTS.


MATERIAL	DESCRIPTION	710624	710625
		11/MLBS/NGK/--/PT-UG	22/MLBS/NGK/--/PT-UG
710635	11KV, POLETOP DEAD END, 3PH (11/DE/3/FRP)	1	
710096	22KV, POLETOP DEAD END, 3PH (22/DE/3/FRP)		1
710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	1	1
235730	SWITCH, L/BRKR LBS 11kV MANUAL N-A	1	
235733	SWITCH, L/BRKR LBS 22kV MANUAL N-A		1
710571	OH/11/CABLETERM	1	
710572	OH/22/CABLETERM		1
152482	LUG, CRIMP 185mm2 x M12 HOLE BI-METAL T/P	3	3
323365	BRACKET, MOUNTING, POLETOP, TO SUIT NGK LBS	1	1

D

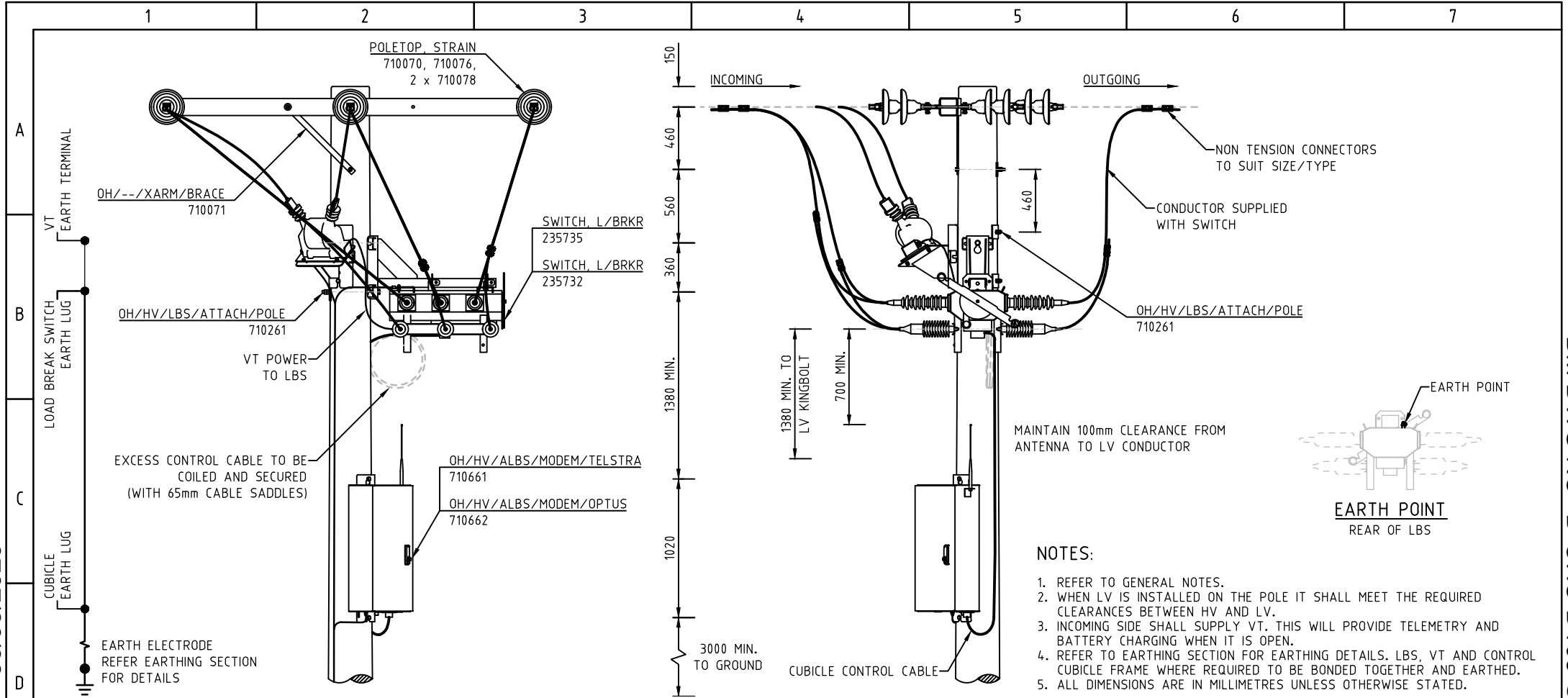
EMF/PDF CREATION DATE 02/12/2025

ALTERNATIONS	ORIGINAL ISSUE	

REFERENCE	
NEW DRAWING	

	
DRAWN	HEGAYAR PTY LTD
DRAFTING CHECK	HEGAYAR PTY LTD
DESIGNED BY	T.ARYZHA
CHECKED BY	M.EALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE		SCALE	
SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES MANUAL LBS - HV TO U/G CABLE BILL OF MATERIALS, 11 OR 22kV		NTS A4	
D - OHC - D104 - SD - 005		REVISION A	



30/03/2026

EMF/PDF CREATION DATE

MATERIAL	DESCRIPTION	710287	710288	710289	710290
		11/ALBS/NULEC/TELSTRA/BOLT	22/ALBS/NULEC/TELSTRA/BOLT	11/ALBS/NULEC/OPTUS/BOLT	22/ALBS/NULEC/OPTUS/BOLT
710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	1	1	1
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1	1	1
710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)	1	1	1	1
710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)	2	2	2	2
710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	2	2	2	2
710661	OH, HV, TELSTRA MODEM FOR ALBS (OH/HV/ALBS/MODEM/TELSTRA)	1	1		
710662	OH, HV, OPTUS MODEM FOR ALBS (OH/HV/ALBS/MODEM/OPTUS)			1	1
235732	SWITCH, L/BRKR LBS RL27 11kV FULLY AUTO	1		1	
235735	SWITCH, L/BRKR LBS RL27 22kV FULLY AUTO		1		1

ALTERATIONS

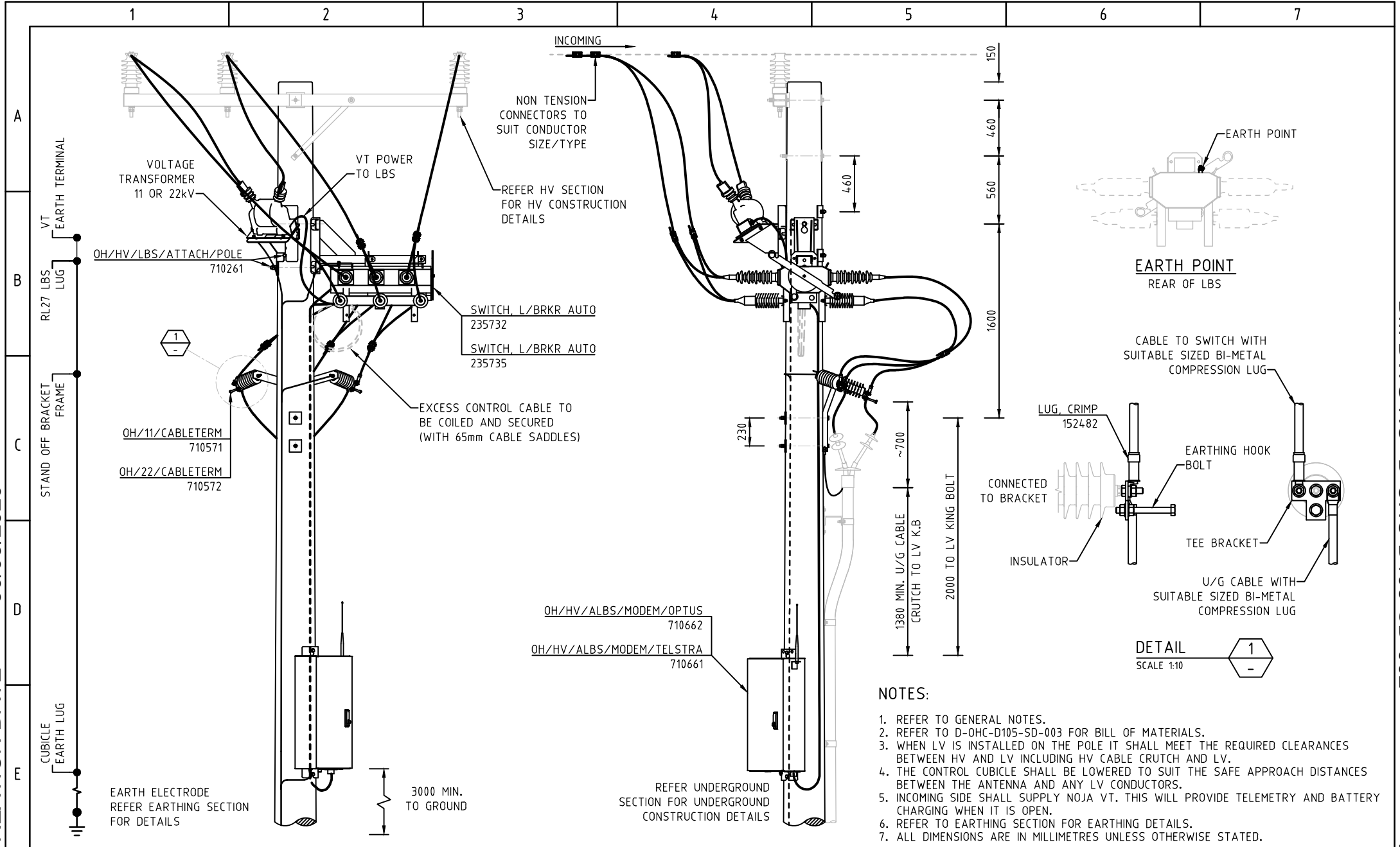
ORIGINAL ISSUE	REFERENCE
	NEW DRAWING: SUPERSEDES D-OHC-E038-SD-001 D-OHC-E038-SD-002

TasNetworks	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TJWY201A
CHECKED BY	PLNEALY
APPROVED BY	BJPAPALIA
DATE APPROVED	02-04-2026

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TITLE	SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES RL27 REMOTE CONTROLLED LBS 11 OR 22kV	SCALE NTS
	D - OHC - D105 - SD - 001	REVISION B

BM DWG NO D-OHC-D105-SD-001

BM REV B



- NOTES:**
1. REFER TO GENERAL NOTES.
 2. REFER TO D-OHC-D105-SD-003 FOR BILL OF MATERIALS.
 3. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV INCLUDING HV CABLE CRUTCH AND LV.
 4. THE CONTROL CUBICLE SHALL BE LOWERED TO SUIT THE SAFE APPROACH DISTANCES BETWEEN THE ANTENNA AND ANY LV CONDUCTORS.
 5. INCOMING SIDE SHALL SUPPLY NOJA VT. THIS WILL PROVIDE TELEMETRY AND BATTERY CHARGING WHEN IT IS OPEN.
 6. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERATIONS	ORIGINAL ISSUE	REFERENCE	TasNetworks © TasNetworks PTY. LTD. trading as TasNetworks ABN 24 97 357 299	NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS	SCALE
					TITLE SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES RL27 REMOTE LBS - HV TO U/G CABLE 11 OR 22kV
		NEW DRAWING: SUPERSEDES D-OHC-E039-SD-001	DRAWN: ANSS DRAFTING CHECK: ANSS DESIGNED BY: T.ANYZWA CHECKED BY: P.MEALY APPROVED BY: B.PAPALIA DATE APPROVED: 02-01-2024		A4
					REVISION
					B

EMF/PDF CREATION DATE 30/03/2026

BM DWG NO D-OHC-D105-SD-002

BM REV B

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MATERIAL LIST FOR D-OHC-D105-SD-002

REMOTE / AUTO LBS TO UG CABLE. HV POLE TOP TO BE SELECTED FROM SECTION 3. DOES NOT INCLUDE HV CABLE OR COMPONENTS.

MATERIAL	DESCRIPTION	710604	710605	710606	710607
		11/ALBS/NULEC/TELSTRA/BOLT-UG	22/ALBS/NULEC/TELSTRA/BOLT-UG	11/ALBS/NULEC/OPTUS/BOLT-UG	22/ALBS/NULEC/OPTUS/BOLT-UG
710261	OH, HV, LBS POLE ATTACHMENT (OH/HV/LBS/ATTACH/POLE)	2	2	2	2
710661	OH, HV, TELSTRA MODEM FOR ALBS (OH/HV/ALBS/MODEM/TELSTRA)	1	1		
710662	OH, HV, OPTUS MODEM FOR ALBS (OH/HV/ALBS/MODEM/OPTUS)			1	1
235732	SWITCH, L/BRKR LBS RL27 11KV FULLY AUTO	1		1	
235735	SWITCH, L/BRKR LBS RL27 22KV FULLY AUTO		1		1
710266	OH, HV, LBS VOLTAGE TX BRACKET BOLTS (OH/HV/ALBS/VT-BOLTS)	1	1	1	1
710571	OH/11/CABLETERM	1		1	
710572	OH/22/CABLETERM		1		1
152482	LUG, CRIMP 185mm ² x M12 HOLE BI-METAL T/P	3	3	3	3

EMF/PDF CREATION DATE 02/12/2025

ALTERATIONS

ORIGINAL ISSUE

REFERENCE
NEW DRAWING: SUPERSEDES
D-OHC-E039-SD-002

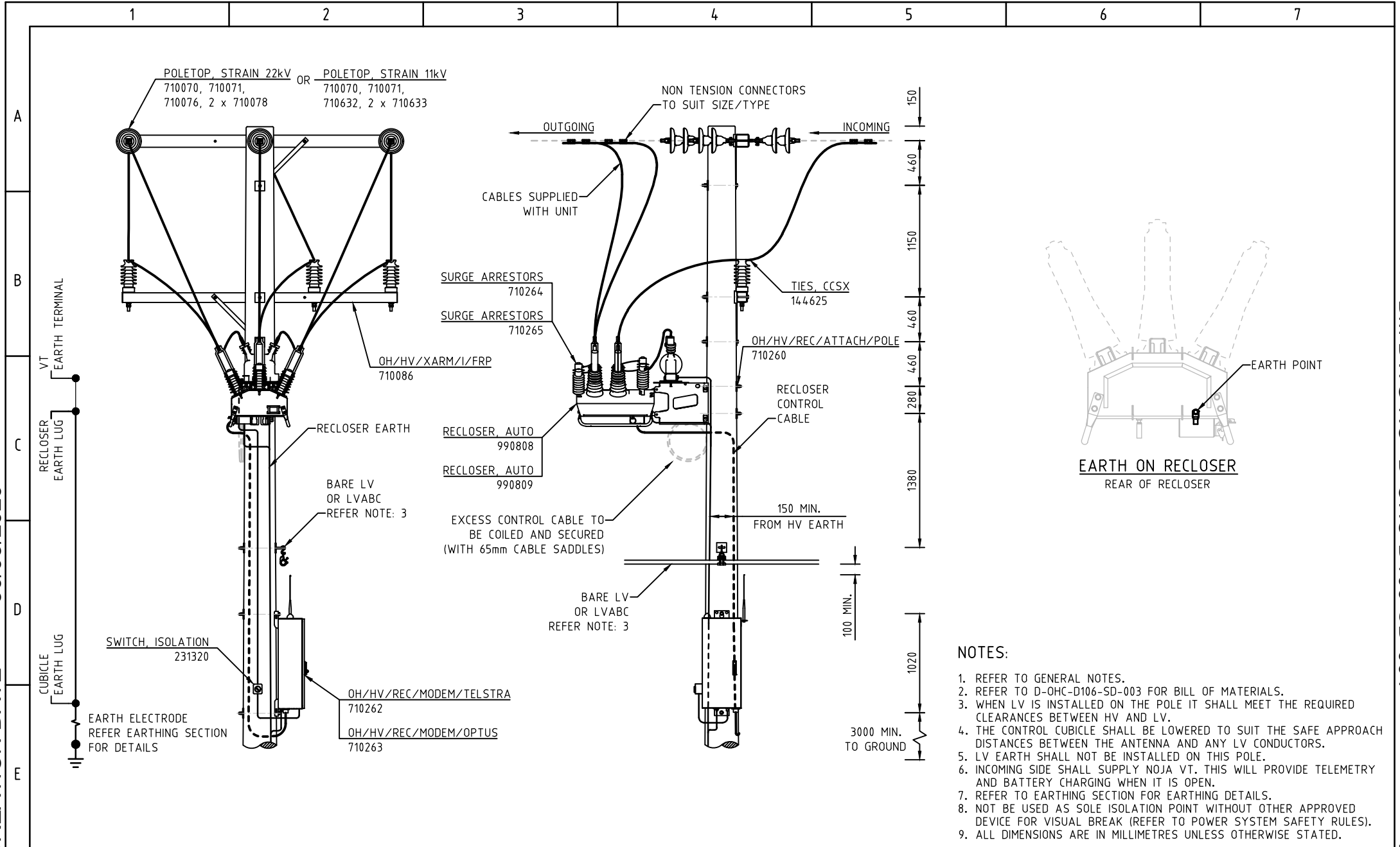
DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	T.AMYZHA
CHECKED BY	M.EALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS LOAD BREAK SWITCH ASSEMBLIES AUTO LBS - HV TO U/G CABLE BILL OF MATERIALS, 11 OR 22kV	SCALE	NTS
D - OHC - D105 - SD - 003		REVISION	A4

DWG STATUS STANDARD

BM DWG NO D-OHC-D105-SD-003

BM REV A



NOTES:

1. REFER TO GENERAL NOTES.
2. REFER TO D-OHC-D106-SD-003 FOR BILL OF MATERIALS.
3. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV.
4. THE CONTROL CUBICLE SHALL BE LOWERED TO SUIT THE SAFE APPROACH DISTANCES BETWEEN THE ANTENNA AND ANY LV CONDUCTORS.
5. LV EARTH SHALL NOT BE INSTALLED ON THIS POLE.
6. INCOMING SIDE SHALL SUPPLY NOJA VT. THIS WILL PROVIDE TELEMETRY AND BATTERY CHARGING WHEN IT IS OPEN.
7. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
8. NOT BE USED AS SOLE ISOLATION POINT WITHOUT OTHER APPROVED DEVICE FOR VISUAL BREAK (REFER TO POWER SYSTEM SAFETY RULES).
9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

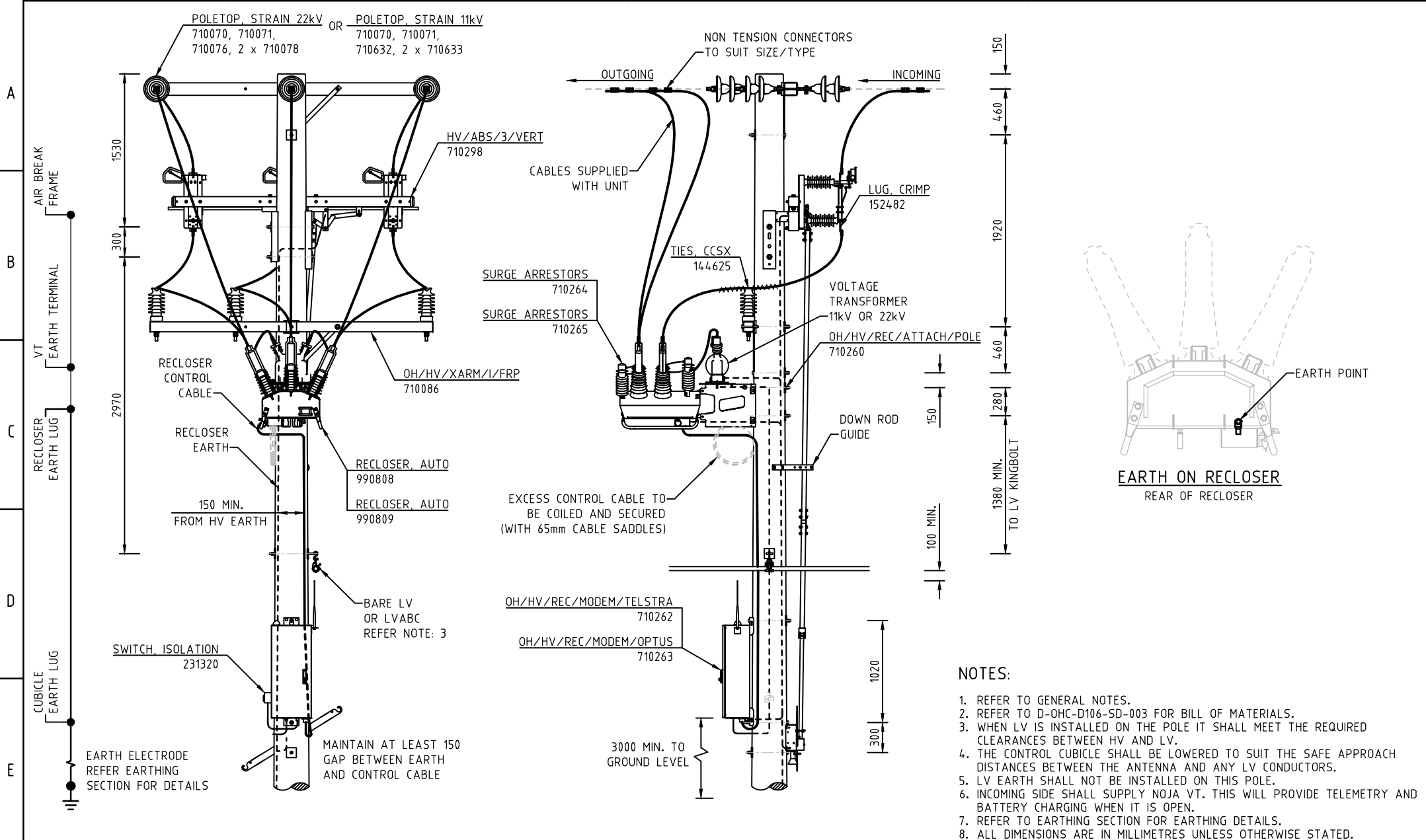
ALTERNATIONS	ORIGINAL ISSUE

REFERENCE	
NEW DRAWING: SUPERSEDES D-OHC-E021-SD-001	

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TJNYZHA
CHECKED BY	MJEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES NO AIR BREAK SWITCH 11 OR 22kV		SCALE NTS	
D - OHC - D106 - SD - 001		REVISION A4 B	

1 2 3 4 5 6 7



- NOTES:
1. REFER TO GENERAL NOTES.
 2. REFER TO D-OHC-D106-SD-003 FOR BILL OF MATERIALS.
 3. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV.
 4. THE CONTROL CUBICLE SHALL BE LOWERED TO SUIT THE SAFE APPROACH DISTANCES BETWEEN THE ANTENNA AND ANY LV CONDUCTORS.
 5. LV EARTH SHALL NOT BE INSTALLED ON THIS POLE.
 6. INCOMING SIDE SHALL SUPPLY NOJA VT. THIS WILL PROVIDE TELEMETRY AND BATTERY CHARGING WHEN IT IS OPEN.
 7. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
 8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS	ORIGINAL ISSUE

REFERENCE
NEW DRAWING: SUPERSEDES D-OHC-E020-SD-001

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TJNYZHA
CHECKED BY	MJEALY
APPROVED BY	BJPAPALIA
DATE APPROVED	02-01-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES WITH AIR BREAK SWITCH 11 OR 22kV	SCALE NTS
D - OHC - D106 - SD - 002		A4
		REVISION B

BM DWG NO D-OHC-D106-SD-002

BM REV B

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MATERIAL LIST FOR D-OHC-D106-SD-001

INLINE RECLOSER WITHOUT ABS INCLUDING STRAIN POLE TOP MATERIALS

MATERIAL	DESCRIPTION	710277	710278	710279	710280
		11/REC/NOJA/TELSTRA/BOLT	22/REC/NOJA/TELSTRA/BOLT	11/REC/NOJA/OPTUS/BOLT	22/REC/NOJA/OPTUS/BOLT
710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	1	1	1
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1	1	1
710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)		1		1
710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)		2		2
710632	OH, 11kV, INSULATORS, STRAIN TO POLE (OH/11/INSUL/S/POLE)			1	
710633	OH, 11kV, INSULATORS, STRAIN TO FRP XARM (OH/11/INSUL/S/FRP)	2		2	
710086	22kV, POLETOP INTERMEDIATE, 3PH (22/1/3/FRP)	1	1	1	1
144625	TIE, TOP AND SIDE 159mm CCSX	6	6	6	6
710260	OH, HV, RECLOSER POLE ATTACHMENT (OH/HV/REC/ATTACH/POLE)	1	1	1	1
710262	OH, HV, TELSTRA MODEM FOR RECLOSER (OH/HV/REC/MODEM/TELSTRA)	1	1		
710263	OH, HV, OPTUS MODEM FOR RECLOSER (OH/HV/REC/MODEM/OPTUS)			1	1
990809	RECLOSER, AUTO 27kV SWITCHING GRP 11kV VT	1		1	
990808	RECLOSER, AUTO 27kV SWITCHING GRP 22kV VT		1		1
710264	OH, 11kV, RECLOSER SURGE ARRESTORS (OH/11/REC/ATTACH/SURGEARRESTOR)	1		1	
710265	OH, 22kV, RECLOSER SURGE ARRESTORS (OH/22/REC/ATTACH/SURGEARRESTOR)		1		1

MATERIAL LIST FOR D-OHC-D106-SD-002

INLINE RECLOSER WITH INCOMING ABS INCLUDING STRAIN POLE TOP MATERIALS

MATERIAL	DESCRIPTION	710679	710680	710681	710682
		11/REC/NOJA/TELSTRA/BOLT-INC	22/REC/NOJA/TELSTRA/BOLT-INC	11/REC/NOJA/OPTUS/BOLT-INC	22/REC/NOJA/OPTUS/BOLT-INC
710070	OH, 11kV-33kV, XARM, STRAIN, FRP (OH/HV/XARM/S/FRP)	1	1	1	1
710071	OH, XARM BRACE, FRP (OH/--/XARM/BRACE)	1	1	1	1
710076	OH, 22kV, INSULATORS, STRAIN TO POLE (OH/22/INSUL/S/POLE)		1		1
710078	OH, 22kV, INSULATORS, STRAIN TO FRP XARM (OH/22/INSUL/S/FRP)		2		2
710632	OH, 11kV, INSULATORS, STRAIN TO POLE (OH/11/INSUL/S/POLE)	1		1	
710633	OH, 11kV, INSULATORS, STRAIN TO FRP XARM (OH/11/INSUL/S/FRP)	2		2	
710086	22kV, POLETOP INTERMEDIATE, 3PH (22/1/3/FRP)	1	1	1	1
144625	TIE, TOP AND SIDE 159mm CCSX	6	6	6	6
710260	OH, HV, RECLOSER POLE ATTACHMENT (OH/HV/REC/ATTACH/POLE)	1	1	1	1
710262	OH, HV, TELSTRA MODEM FOR RECLOSER (OH/HV/REC/MODEM/TELSTRA)	1	1		
710263	OH, HV, OPTUS MODEM FOR RECLOSER (OH/HV/REC/MODEM/OPTUS)			1	1
990809	RECLOSER, AUTO 27kV SWITCHING GRP 11kV VT	1		1	
990808	RECLOSER, AUTO 27kV SWITCHING GRP 22kV VT		1		1
710264	OH, 11kV, RECLOSER SURGE ARRESTORS (OH/11/REC/ATTACH/SURGEARRESTOR)	1		1	
710265	OH, 22kV, RECLOSER SURGE ARRESTORS (OH/22/REC/ATTACH/SURGEARRESTOR)		1		1
710298	POLETOP, HV, ABS, 3PH, VERT MOUNTING (HV/ABS/3/VERT)	1	1	1	1
152482	LUG, CRIMP 185mm ² x M12 HOLE BI-METAL	6	6	6	6

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS ORIGINAL ISSUE

REFERENCE
NEW DRAWING: SUPERSEDES D-OHC-E021-SD-002

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.AMYZOKA
CHECKED BY	M.EALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-04-2024

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ABN 24 107 357 299

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TITLE	SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES BILL OF MATERIALS 11 OR 22kV	SCALE	NTS
			A4
		REVISION	B

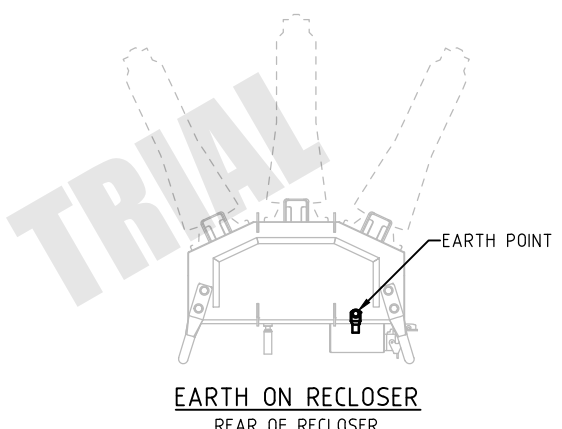
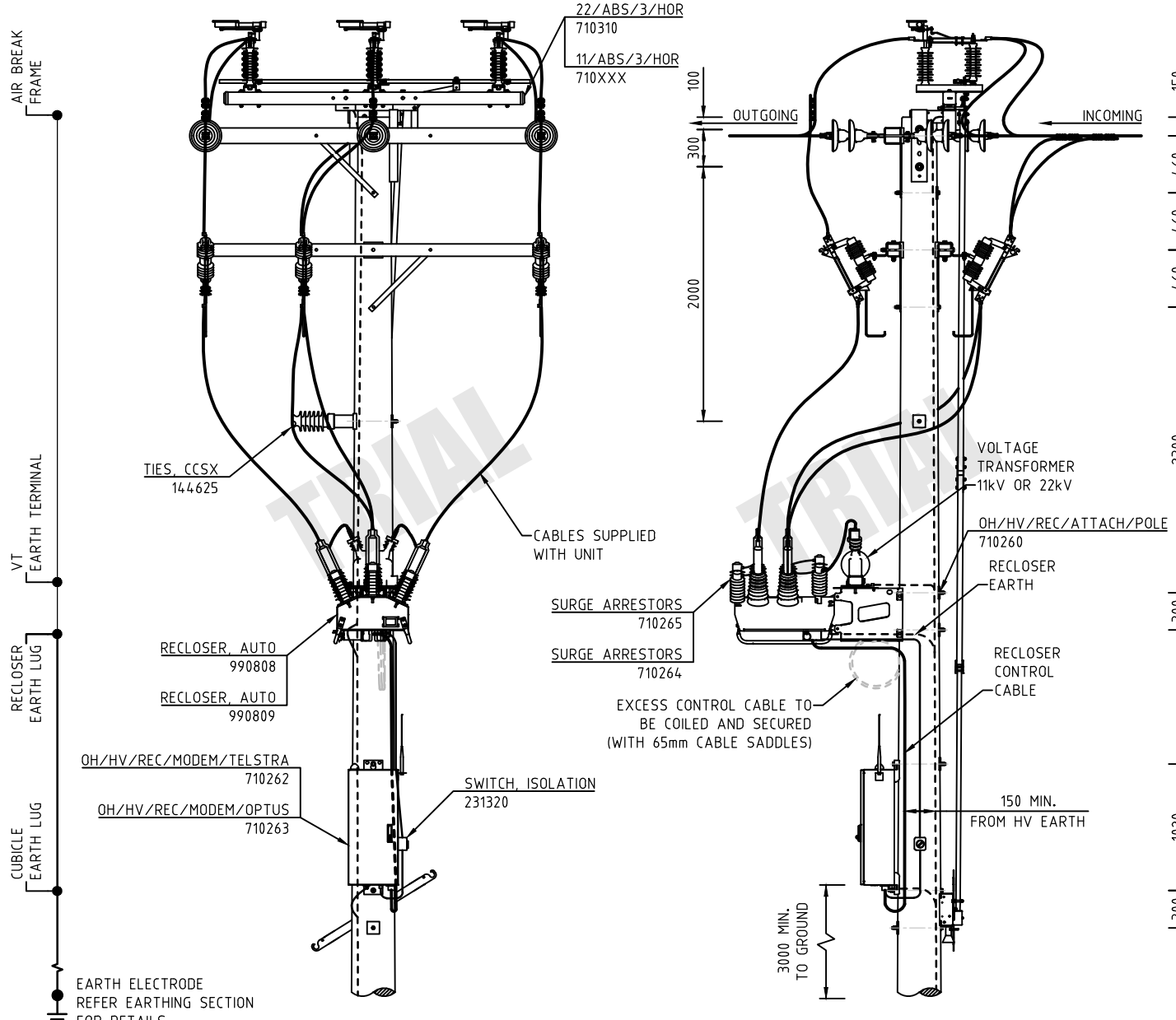
D - OHC - D106 - SD - 003

BM DWG NO D-OHC-D106-SD-003

BM REV B

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- NOTES:
1. REFER TO GENERAL NOTES.
 2. REFER TO D-OHC-D106-SD-005 FOR BILL OF MATERIALS.
 3. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV.
 4. THE CONTROL CUBICLE SHALL BE LOWERED TO SUIT THE SAFE APPROACH DISTANCES BETWEEN THE ANTENNA AND ANY LV CONDUCTORS.
 5. LV EARTH SHALL NOT BE INSTALLED ON THIS POLE.
 6. INCOMING SIDE SHALL SUPPLY NOJA VT. THIS WILL PROVIDE TELEMETRY AND BATTERY CHARGING WHEN IT IS OPEN.
 7. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
 8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS	ORIGINAL ISSUE

REFERENCE	NEW DRAWING
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TITLE	SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES FULL SWITCHGEAR 11 OR 22kV	SCALE NTS
DRAWN	ANSS	A4
DRAFTING CHECK	ANSS	
DESIGNED BY	T.JOHYZHKA	REVISION B
CHECKED BY		
APPROVED BY		
DATE APPROVED		

DWG STATUS STANDARD

BM DWG NO D-OHC-D106-SD-004

BM REV B

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MATERIAL LIST FOR D-OHC-D106-SD-004


MATERIAL	DESCRIPTION	710xxx	710xxx	710xxx	710xxx
		11/REC/NOJA/TELSTRA/xxxxxx	22/REC/NOJA/TELSTRA/xxxxxx	11/REC/NOJA/OPTUS/xxxxxx	22/REC/NOJA/OPTUS/xxxxxx
710xxx	POLETOP, 11KV, ABS, 3PH, HOR MOUNTING (11/ABS/3/HOR)	1		1	
710310	POLETOP, 22KV, ABS, 3PH, HOR MOUNTING (22/ABS/3/HOR)		1		1
710xxx	NEW - HV/LINK/3 NEW	2	2	2	2
710xxx	NEW - POST INSULATOR+MK99 BRACKET+GAINBLOCK+CC TIES SUB ASSMB.	1	1	1	1
710260	OH, HV, RECLOSER POLE ATTACHMENT (OH/HV/REC/ATTACH/POLE)	1	1	1	1
710262	OH, HV, TELSTRA MODEM FOR RECLOSER (OH/HV/REC/MODEM/TELSTRA)	1	1		
710263	OH, HV, OPTUS MODEM FOR RECLOSER (OH/HV/REC/MODEM/OPTUS)			1	1
990809	RECLOSER, AUTO 27kV SWITCHING GRP 11kV VT	1		1	
990808	RECLOSER, AUTO 27kV SWITCHING GRP 22kV VT		1		1
710264	OH, 11KV, RECLOSER SURGE ARRESTORS (OH/11/REC/ATTACH/SURGEARRESTOR)	1		1	
710265	OH, 22KV, RECLOSER SURGE ARRESTORS (OH/22/REC/ATTACH/SURGEARRESTOR)		1		1

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS

ORIGINAL ISSUE	
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REFERENCE

 TasNetworks	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZHA
CHECKED BY	
APPROVED BY	
DATE APPROVED	

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TITLE	SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES FULL SWITCHGEAR BILL OF MATERIALS 11 OR 22kV	SCALE	NTS
		A4	REVISION B
D - OHC - D106 - SD - 005			

DWG STATUS STANDARD

BM DWG NO D-OHC-D106-SD-005

BM REV B

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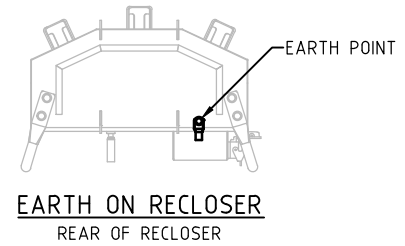
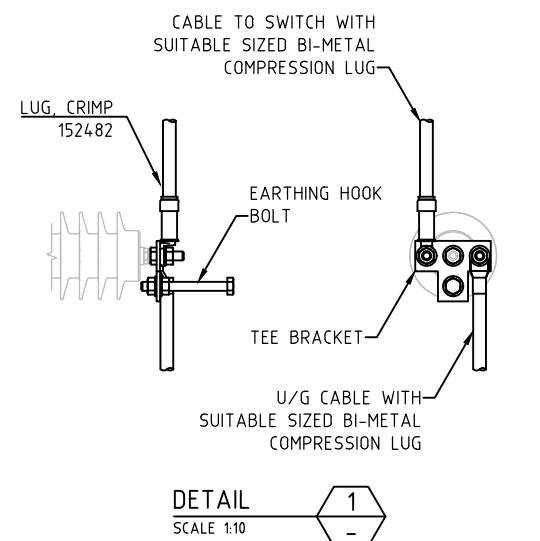
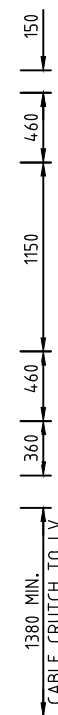
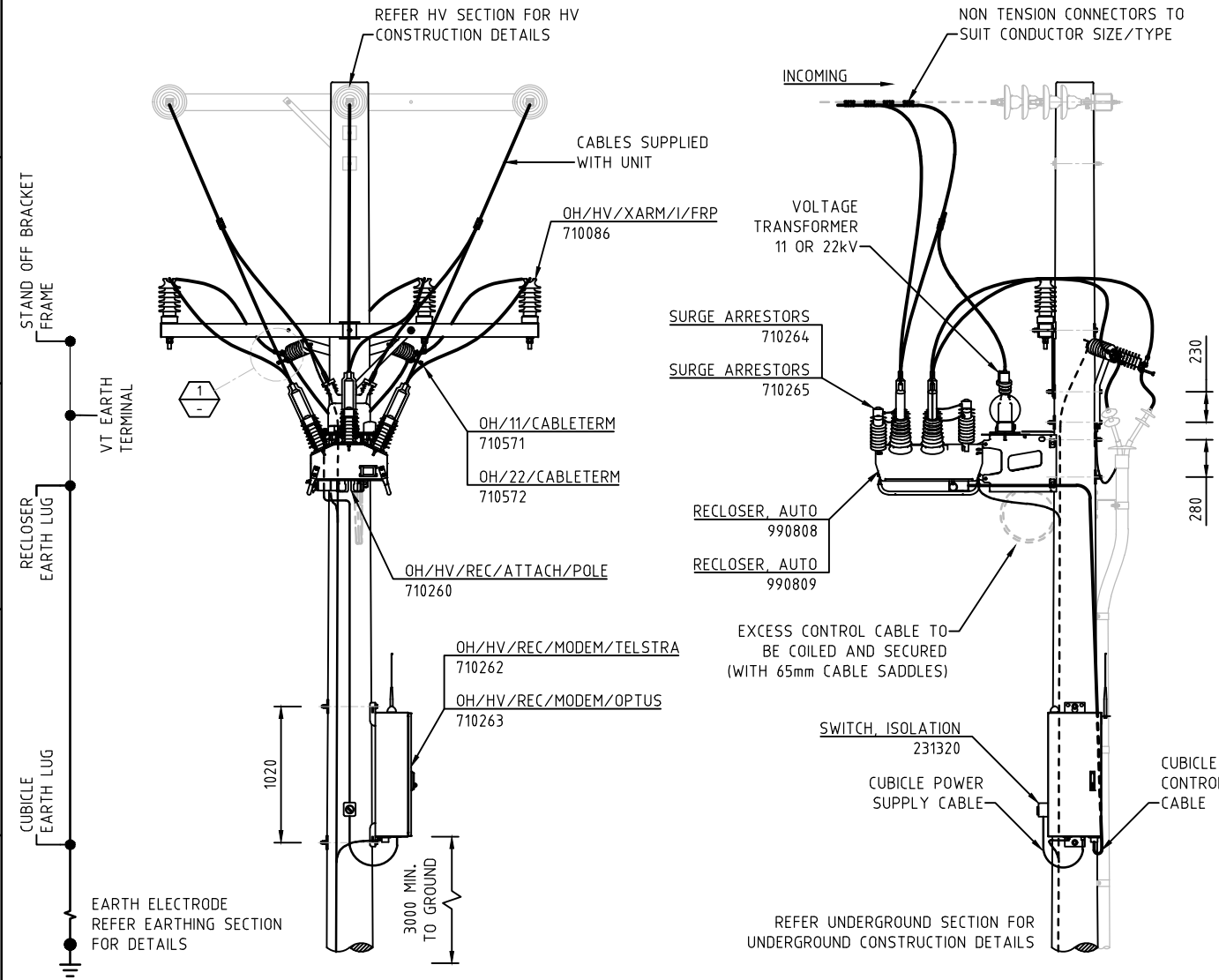
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- NOTES:
1. REFER TO GENERAL NOTES.
 2. REFER TO D-OHC-D106-SD-008 FOR BILL OF MATERIALS.
 3. WHEN LV IS INSTALLED ON THE POLE IT SHALL MEET THE REQUIRED CLEARANCES BETWEEN HV AND LV INCLUDING HV CABLE CRUTCH AND LV.
 4. THE CONTROL CUBICLE SHALL BE LOWERED TO SUIT THE SAFE APPROACH DISTANCES BETWEEN THE ANTENNA AND ANY LV CONDUCTORS.
 5. LV EARTH SHALL NOT BE INSTALLED ON THIS POLE.
 6. INCOMING SIDE SHALL SUPPLY NOJA VT. THIS WILL MEET THE TELEMETRY AND BATTERY CHARGING WHEN IT IS OPEN.
 7. DO NOT BREAK INSULATION ON RECLOSER BUSHING LEADS CLOSER THAN 1.0m FROM THE TOP OF THE BUSHING BOOT TO PREVENT MOISTURE INGRESS.
 8. REFER TO EARTHING SECTION FOR EARTHING DETAILS.
 9. NOT BE USED AS SOLE ISOLATION POINT WITHOUT OTHER APPROVED DEVICE FOR VISUAL BREAK (REFER TO POWER SYSTEM SAFETY RULES).
 10. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS	ORIGINAL ISSUE

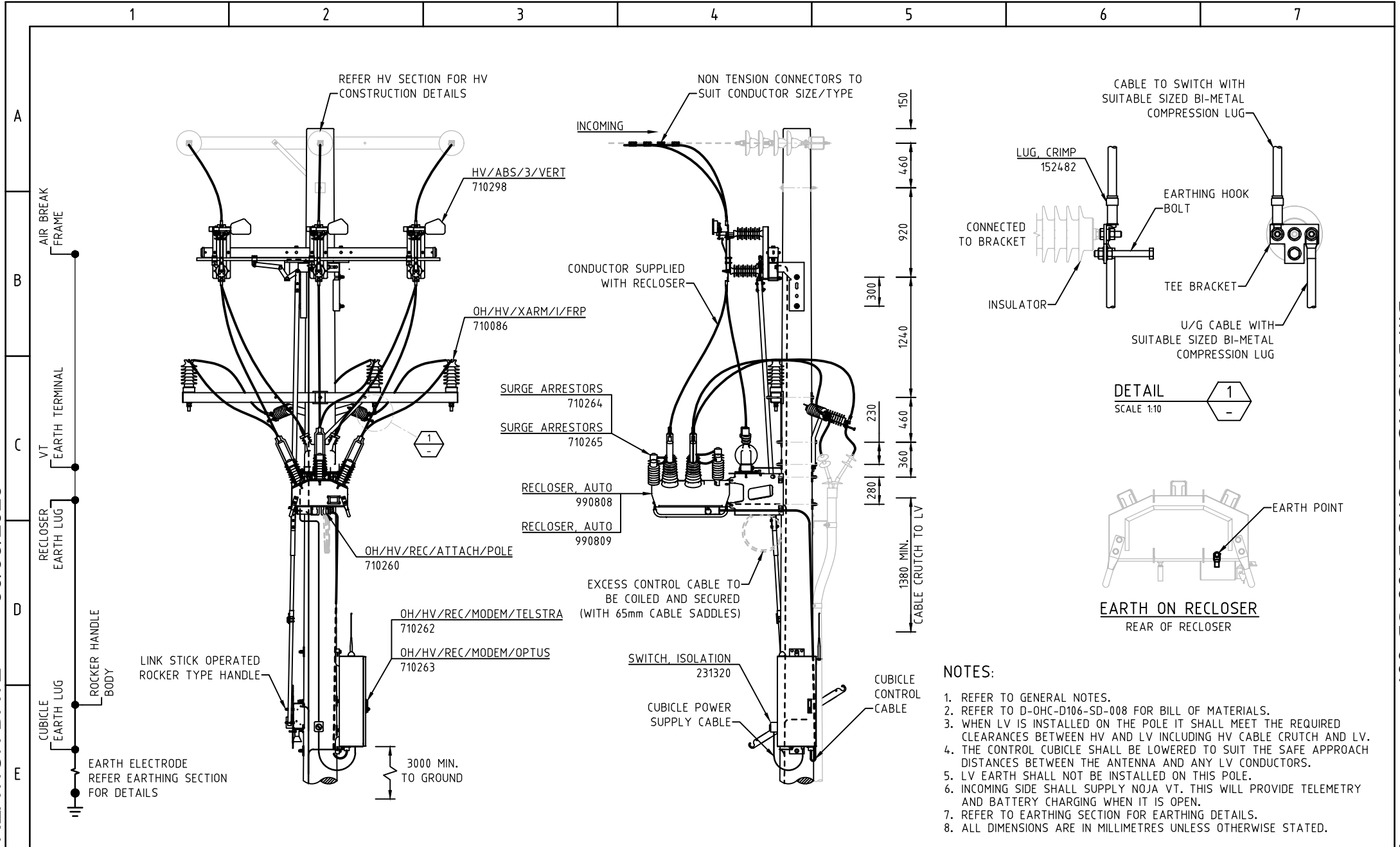
REFERENCE
NEW DRAWING

TasNetworks	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TARYZHA
CHECKED BY	HJEAALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-04-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES TRANSITION HV TO U/G CABLE 11 OR 22kV	SCALE NTS
		A4
		REVISION B

BM DWG NO D-OHC-D106-SD-006

BM REV B



EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS	ORIGINAL ISSUE

REFERENCE	NEW DRAWING
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TasNetworks	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	TJAHYDHA
CHECKED BY	PLAEALY
APPROVED BY	BPAPALLA
DATE APPROVED	02-01-2024

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TITLE	SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES TRANSITION HV TO U/G CABLE - WITH ABS 11 OR 22kV	SCALE NTS
D - OHC - D106 - SD - 007		A4
		REVISION C

BM DWG NO D-OHC-D106-SD-007

BM REV C

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MATERIAL LIST FOR D-OHC-D106-SD-006

RECLOSER TO UG CABLE. DOES NOT INCLUDE HV POLE TOP, HV CABLE OR COMPONENTS

MATERIAL	DESCRIPTION	710594	710595	710596	710597
		11/REC/NOJA/TELSTRA/BOLT-UG	22/REC/NOJA/TELSTRA/BOLT-UG	11/REC/NOJA/OPTUS/BOLT-UG	22/REC/NOJA/OPTUS/BOLT-UG
710086	22kV, POLETOP INTERMEDIATE, 3PH (22/1/3/FRP)	1	1	1	1
144625	TIE, TOP AND SIDE 159mm CCSX	6	6	6	6
710571	OH/11/CABLETERM	1		1	
710572	OH/22/CABLETERM		1		1
152482	LUG, CRIMP 185mm ² x M12 HOLE BI-METAL T/P	3	3	3	3
710260	OH, HV, RECLOSER POLE ATTACHMENT (OH/HV/REC/ATTACH/POLE)	1	1	1	1
710262	OH, HV, TELSTRA MODEM FOR RECLOSER (OH/HV/REC/MODEM/TELSTRA)	1	1		
710263	OH, HV, OPTUS MODEM FOR RECLOSER (OH/HV/REC/MODEM/OPTUS)			1	1
990809	RECLOSER, AUTO 27kV SWITCHING GRP 11kV VT	1		1	
990808	RECLOSER, AUTO 22kV SWITCHING GRP 22kV VT		1		1
710264	OH, 11kV, RECLOSER SURGE ARRESTORS (OH/11/REC/ATTACH/SURGEARRESTOR)	1		1	
710265	OH, 22kV, RECLOSER SURGE ARRESTORS (OH/22/REC/ATTACH/SURGEARRESTOR)		1		1

MATERIAL LIST FOR D-OHC-D106-SD-007

RECLOSER TO UG CABLE WITH INCOMING ABS. DOES NOT INCLUDE HV POLE TOP, HV CABLE OR COMPONENTS

MATERIAL	DESCRIPTION	710683	710684	710685	710686
		11/REC/NOJA/TELSTRA/BOLT-UG-INC	22/REC/NOJA/TELSTRA/BOLT-UG-INC	11/REC/NOJA/OPTUS/BOLT-UG-INC	22/REC/NOJA/OPTUS/BOLT-UG-INC
710086	22kV, POLETOP INTERMEDIATE, 3PH (22/1/3/FRP)	1	1	1	1
144625	TIE, TOP AND SIDE 159mm CCSX	6	6	6	6
710571	OH/11/CABLETERM	1		1	
710572	OH/22/CABLETERM		1		1
152482	LUG, CRIMP 185mm ² x M12 HOLE BI-METAL T/P	3	3	3	3
710260	OH, HV, RECLOSER POLE ATTACHMENT (OH/HV/REC/ATTACH/POLE)	1	1	1	1
710262	OH, HV, TELSTRA MODEM FOR RECLOSER (OH/HV/REC/MODEM/TELSTRA)	1	1		
710263	OH, HV, OPTUS MODEM FOR RECLOSER (OH/HV/REC/MODEM/OPTUS)			1	1
990809	RECLOSER, AUTO 27kV SWITCHING GRP 11kV VT	1		1	
990808	RECLOSER, AUTO 22kV SWITCHING GRP 22kV VT		1		1
710264	OH, 11kV, RECLOSER SURGE ARRESTORS (OH/11/REC/ATTACH/SURGEARRESTOR)	1		1	
710265	OH, 22kV, RECLOSER SURGE ARRESTORS (OH/22/REC/ATTACH/SURGEARRESTOR)		1		1
710298	POLETOP, HV, ABS, 3PH, VERT MOUNTING (HV/ABS/3/VERT)	1	1	1	1
152482	LUG, CRIMP 185mm ² x M12 HOLE BI-METAL	8	8	8	8

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE	
NEW DRAWING	

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.KHYZHKA
CHECKED BY	M.HEALY
APPROVED BY	B.PAPALIA
DATE APPROVED	02-04-2026

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TITLE SWITCHGEAR CONSTRUCTIONS RECLOSER - NOJA ASSEMBLIES TRANSITION HV TO U/G CABLE & WITH ABS BILL OF MATERIALS, 11 OR 22kV		SCALE NTS	REVISION B
D - OHC - D106 - SD - 008		A4	

BM DWG NO D-OHC-D106-SD-008

BM REV B

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INTERNAL
REVIEW IN
PROGRESS

EMF/PDF CREATION DATE 02/12/2025


BM DWG NO D-OHC-D107-SD-001

BM REV A

ALTERATIONS

ORIGINAL ISSUE

REFERENCE	
NEW DRAWING: SUPERSEDES D-OHC-E044-SD-001 D-OHC-E044-SD-002	

 TasNetworks	
DRAWN	
DRAFTING CHECK	
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DATE APPROVED	

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TITLE SWITCHGEAR CONSTRUCTIONS SWER RECLOSER ASSEMBLY 12.7kV		SCALE NTS	REVISION A
D - OHC - D107 - SD - 001		A4	

DWG STATUS STANDARD

BOM No. in SAP	APL	Material BOM Description	Drawing
710257	OH/HV/EDO/1	OH, HV, FUSE, EXPULSION DROPOUT, 1PH	D-OHC-D101-SD-001
710258	OH/HV/BAF/1	OH, HV, FUSE, BORIC ACID, 1PH	D-OHC-D101-SD-001
710259	OH/HV/FTF/1	OH, HV, FUSE, FAULT TAMER, 1PH	D-OHC-D101-SD-001
710260	OH/HV/REC/ATTACH/POLE	OH, HV, RECLOSER POLE ATTACHMENT	D-OHC-D101-SD-004
710261	OH/HV/LBS/ATTACH/POLE	OH, HV, LBS POLE ATTACHMENT	D-OHC-D101-SD-004
710262	OH/HV/REC/TELSTRA/MODEM	OH, HV, TELSTRA MODEM FOR RECLOSER	D-OHC-D101-SD-002
710263	OH/HV/REC/MODEM/OPTUS	OH, HV, OPTUS MODEM FOR RECLOSER	D-OHC-D101-SD-002
710264	OH/11/REC/ATTACH/SURGEARRESTOR	OH, 11KV, RECLOSER SURGE ARRESTORS	D-OHC-D101-SD-004
710265	OH/22/REC/ATTACH/SURGEARRESTOR	OH, 22KV, RECLOSER SURGE ARRESTORS	D-OHC-D101-SD-004
710270	OH/12.7/REC/ATTACH/SURGEARRESTOR	OH, 12.7KV, RECLOSER SURGE ARRESTORS	D-OHC-D101-SD-004
710271	HV/EDO/1	POLETOP, HV, FUSE, EXPULSION DROPOUT, 1P	D-OHC-D102-SD-001
710272	HV/EDO/3	POLETOP, HV, FUSE, EXPULSION DROPOUT, 3P	D-OHC-D102-SD-001
710273	HV/BAF/1	POLETOP, HV, FUSE, BORIC ACID, 1PH	D-OHC-D102-SD-001
710274	HV/BAF/3	POLETOP, HV, FUSE, BORIC ACID, 3PH	D-OHC-D102-SD-001
710275	HV/FTF/1	POLETOP, HV, FUSE, FAULT TAMER, 1PH	D-OHC-D102-SD-001
710276	HV/FTF/3	POLETOP, HV, FUSE, FAULT TAMER, 3PH	D-OHC-D102-SD-001
710277	11/REC/NOJA/TELSTRA/BOLT	POLETOP, 11KV, NOJA RECLOSER, TELSTRA	D-OHC-D106-SD-003
710278	22/REC/NOJA/TELSTRA/BOLT	POLETOP, 22KV, NOJA RECLOSER, TELSTRA	D-OHC-D106-SD-003
710279	11/REC/NOJA/OPTUS/BOLT	POLETOP, 11KV, NOJA RECLOSER, OPTUS	D-OHC-D106-SD-003
710280	22/REC/NOJA/OPTUS/BOLT	POLETOP, 11KV, NOJA RECLOSER, OPTUS	D-OHC-D106-SD-003
710283	11/MLBS/NGK/--/BOLT	POLETOP, 11KV, NGK MANUAL LBS, BOLTED	D-OHC-D104-SD-001
710284	22/MLBS/NGK/--/BOLT	POLETOP, 22KV, NGK MANUAL LBS, BOLTED	D-OHC-D104-SD-001
710285	11/MLBS/NGK/--/POLETOP	POLETOP, 11KV, NGK MANUAL LBS, POLETOP	D-OHC-D104-SD-002
710286	22/MLBS/NGK/--/POLETOP	POLETOP, 22KV, NGK MANUAL LBS, POLETOP	D-OHC-D104-SD-002
710287	11/ALBS/NULEC/TELSTRA/BOLT	POLETOP, 11KV, NULEC AUTO LBS, TELSTRA	D-OHC-D105-SD-001
710288	22/ALBS/NULEC/TELSTRA/BOLT	POLETOP, 22KV, NULEC AUTO LBS, TELSTRA	D-OHC-D105-SD-001
710289	11/ALBS/NULEC/OPTUS/BOLT	POLETOP, 11KV, NULEC AUTO LBS, OPTUS	D-OHC-D105-SD-001
710290	22/ALBS/NULEC/OPTUS/BOLT	POLETOP, 22KV, NULEC AUTO LBS, OPTUS	D-OHC-D105-SD-001
710298	HV/ABS/3/VERT	POLETOP, HV, ABS, 3PH, VERT MOUNTING	D-OHC-D103-SD-001

710310	22/ABS/3/HOR	POLETOP, 22KV, ABS, 3PH, HOR MOUNTING	D-OHC-D103-SD-004
710594	11/REC/NOJA/TELSTRA/BOLT-UG	11KV, NOJA RECLOSER, TELSTRA, OH TO UG	D-OHC-D106-SD-008
710595	22/REC/NOJA/TELSTRA/BOLT-UG	22KV, NOJA RECLOSER, TELSTRA, OH TO UG	D-OHC-D106-SD-008
710596	11/REC/NOJA/OPTUS/BOLT-UG	11KV, NOJA RECLOSER, OPTUS, OH TO UG	D-OHC-D106-SD-008
710597	22/REC/NOJA/OPTUS/BOLT-UG	22KV, NOJA RECLOSER, OPTUS, OH TO UG	D-OHC-D106-SD-008
710598	11/MLBS/NGK/--/RETRO-PT	11KV, NGK MANUAL LBS, POLETOP RETROFIT	D-OHC-D104-SD-002
710599	22/MLBS/NGK/--/RETRO-PT	22KV, NGK MANUAL LBS, POLETOP RETROFIT	D-OHC-D104-SD-002
710600	11/MLBS/NGK/--/RETROFIT	11KV, NGK MANUAL LBS, RETROFIT	D-OHC-D104-SD-001
710601	22/MLBS/NGK/--/RETROFIT	22KV, NGK MANUAL LBS, RETROFIT	D-OHC-D104-SD-001
710602	11/MLBS/NGK/--/BOLT-UG	11KV, NGK MANUAL LBS, OH TO UG	D-OHC-D104-SD-005
710603	22/MLBS/NGK/--/BOLT-UG	22KV, NGK MANUAL LBS, OH TO UG	D-OHC-D104-SD-005
710604	11/ALBS/NULEC/TELSTRA/BOLT-UG	11KV, NULEC AUTO LBS, TELSTRA, OH TO UG	D-OHC-D105-SD-003
710605	22/ALBS/NULEC/TELSTRA/BOLT-UG	22KV, NULEC AUTO LBS, TELSTRA, OH TO UG	D-OHC-D105-SD-003
710606	11/ALBS/NULEC/OPTUS/BOLT-UG	11KV, NULEC AUTO LBS, OPTUS, OH TO UG	D-OHC-D105-SD-003
710607	22/ALBS/NULEC/OPTUS/BOLT-UG	22KV, NULEC AUTO LBS, OPTUS, OH TO UG	D-OHC-D105-SD-003
710608	SIDE BRACE FOR HV FUSE CROSSARM	OH/--/SBRACE	D-OHC-D102-SD-001
710609	22/EDO/1/S	22KV, FUSE, EDO, 1PH, STRAIN	D-OHC-D102-SD-003
710610	22/EDO/3/S	22KV, FUSE, EDO, 1PH, STRAIN	D-OHC-D102-SD-003
710611	22/BAF/1/S	22KV, FUSE, BORIC ACID, 1PH, STRAIN	D-OHC-D102-SD-003
710612	22/BAF/3/S	22KV, FUSE, BORIC ACID, 3PH, STRAIN	D-OHC-D102-SD-003
710613	22/FTF/1/S	22KV, FUSE, FAULT TAMER, 1PH, STRAIN	D-OHC-D102-SD-003
710614	22/FTF/1/S	22KV, FUSE, FAULT TAMER, 3PH, STRAIN	D-OHC-D102-SD-003
710615	22/EDO/1/T	22KV, FUSE, EDO, 1PH, TEE OFF	D-OHC-D102-SD-005
710616	22/EDO/3/T	22KV, FUSE, EDO, 3PH, TEE OFF	D-OHC-D102-SD-005
710617	22/BAF/1/T	22KV, FUSE, BORIC ACID, 1PH, TEE OFF	D-OHC-D102-SD-005
710618	22/BAF/3/T	22KV, FUSE, BORIC ACID, 3PH, TEE OFF	D-OHC-D102-SD-005
710619	22/FTF/1/T	22KV, FUSE, FAULT TAMER, 1PH, TEE OFF	D-OHC-D102-SD-005
710620	22/FTF/1/T	22KV, FUSE, FAULT TAMER, 3PH, TEE OFF	D-OHC-D102-SD-005
710621	11/ABS/3/VERT/BOLT-UG	11KV, VERTICAL ABS, OH TO UG	D-OHC-D103-SD-004
710622	22/ABS/3/VERT/BOLT-UG	22KV, VERTICAL ABS, OH TO UG	D-OHC-D103-SD-004

710624	11/MLBS/NGK/--/PT-UG	11KV, NGK MANUAL LBS, POLETOP TO UG	D-OHC-D104-SD-005
710625	22/MLBS/NGK/--/PT-UG	22KV, NGK MANUAL LBS, POLETOP TO UG	D-OHC-D104-SD-005
710661	OH/HV/ALBS/TELSTRA/MODEM	OH, HV, TELSTRA MODEM FOR ALBS	D-OHC-D101-SD-003
710662	OH/HV/ALBS/OPTUS/MODEM	OH, HV, OPTUS MODEM FOR ALBS	D-OHC-D101-SD-003
710663	11/EDO/1/S	11KV, FUSE, EDO, 1PH, STRAIN	D-OHC-D102-SD-002
710664	11/EDO/3/S	11KV, FUSE, EDO, 3PH, STRAIN	D-OHC-D102-SD-002
710665	11/BAF/1/S	11KV, FUSE, BORIC ACID, 1PH, STRAIN	D-OHC-D102-SD-002
710666	11/BAF/3/S	11KV, FUSE, BORIC ACID, 3PH, STRAIN	D-OHC-D102-SD-002
710667	11/FTF/1/S	11KV, FUSE, FAULT TAMER, 1PH, STRAIN	D-OHC-D102-SD-002
710668	11/FTF/3/S	11KV, FUSE, FAULT TAMER, 3PH, STRAIN	D-OHC-D102-SD-002
710669	11/EDO/1/T	11KV, FUSE, EDO, 1PH, TEE OFF	D-OHC-D102-SD-004
710670	11/EDO/3/T	11KV, FUSE, EDO, 3PH, TEE OFF	D-OHC-D102-SD-004
710671	11/BAF/1/T	11KV, FUSE, BORIC ACID, 1PH, TEE OFF	D-OHC-D102-SD-004
710672	11/BAF/3/T	11KV, FUSE, BORIC ACID, 3PH, TEE OFF	D-OHC-D102-SD-004
710673	11/FTF/1/T	11KV, FUSE, FAULT TAMER, 1PH, TEE OFF	D-OHC-D102-SD-004
710674	11/FTF/3/T	11KV, FUSE, FAULT TAMER, 3PH, TEE OFF	D-OHC-D102-SD-004
710675	11/ABS/3/HOR	POLETOP, 11KV, ABS, 3PH, HOR MOUNTING	D-OHC-D103-SD-004
710679	11/REC/NOJA/TELSTRA/BOLT-INC	11KV, NOJA RECLOSER, TELSTRA, INC ABS	D-OHC-D106-SD-003
710680	22/REC/NOJA/TELSTRA/BOLT-INC	22KV, NOJA RECLOSER, TELSTRA, INC ABS	D-OHC-D106-SD-003
710681	11/REC/NOJA/OPTUS/BOLT-INC	11KV, NOJA RECLOSER, OPTUS, INC ABS	D-OHC-D106-SD-003
710682	22/REC/NOJA/OPTUS/BOLT-INC	22KV, NOJA RECLOSER, OPTUS, INC ABS	D-OHC-D106-SD-003
710683	11/REC/NOJA/TELSTRA/BOLT-UG-INC	11KV, NOJA RECLOSER, TELSTRA, OH-UG-INC ABS	D-OHC-D106-SD-008
710684	22/REC/NOJA/TELSTRA/BOLT-UG-INC	22KV, NOJA RECLOSER, TELSTRA, OH-UG-INC ABS	D-OHC-D106-SD-008
710685	11/REC/NOJA/OPTUS/BOLT-UG-INC	11KV, NOJA RECLOSER, OPTUS, OH-UG-INC ABS	D-OHC-D106-SD-008
710686	22/REC/NOJA/OPTUS/BOLT-UG-INC	22KV, NOJA RECLOSER, OPTUS, OH-UG-INC ABS	D-OHC-D106-SD-008