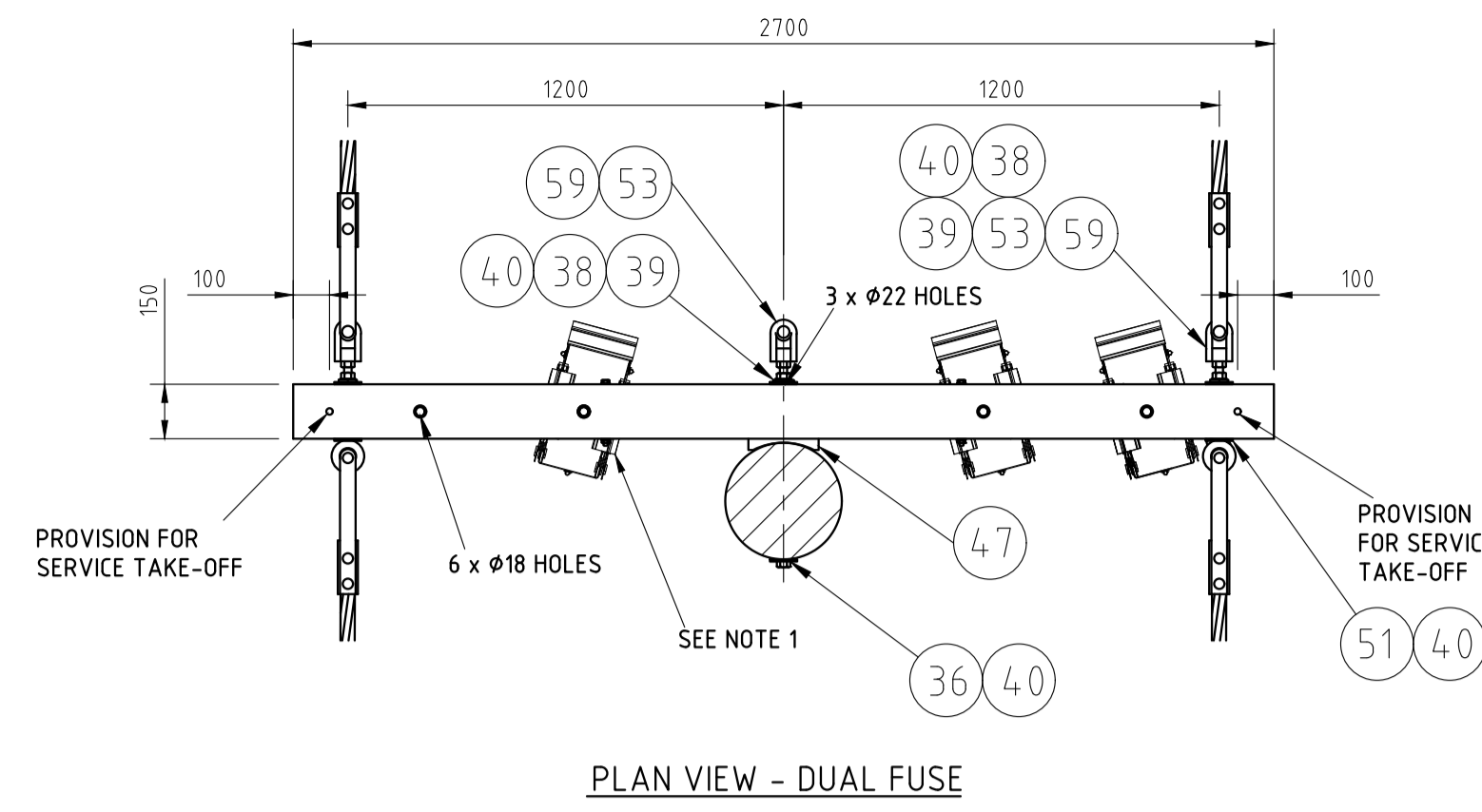
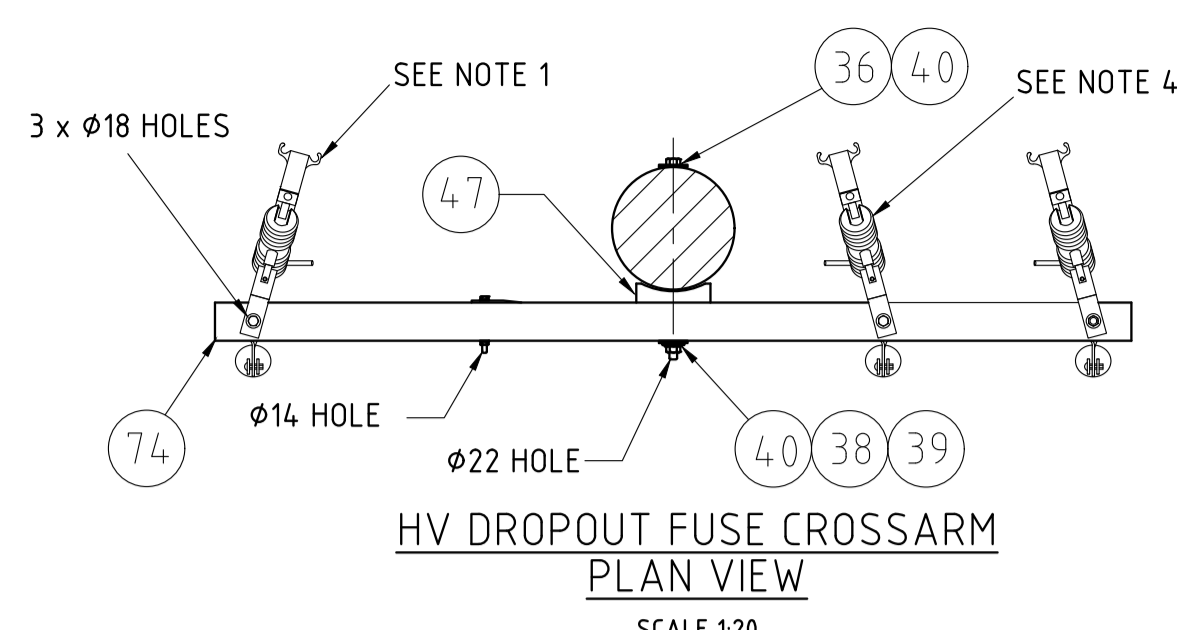


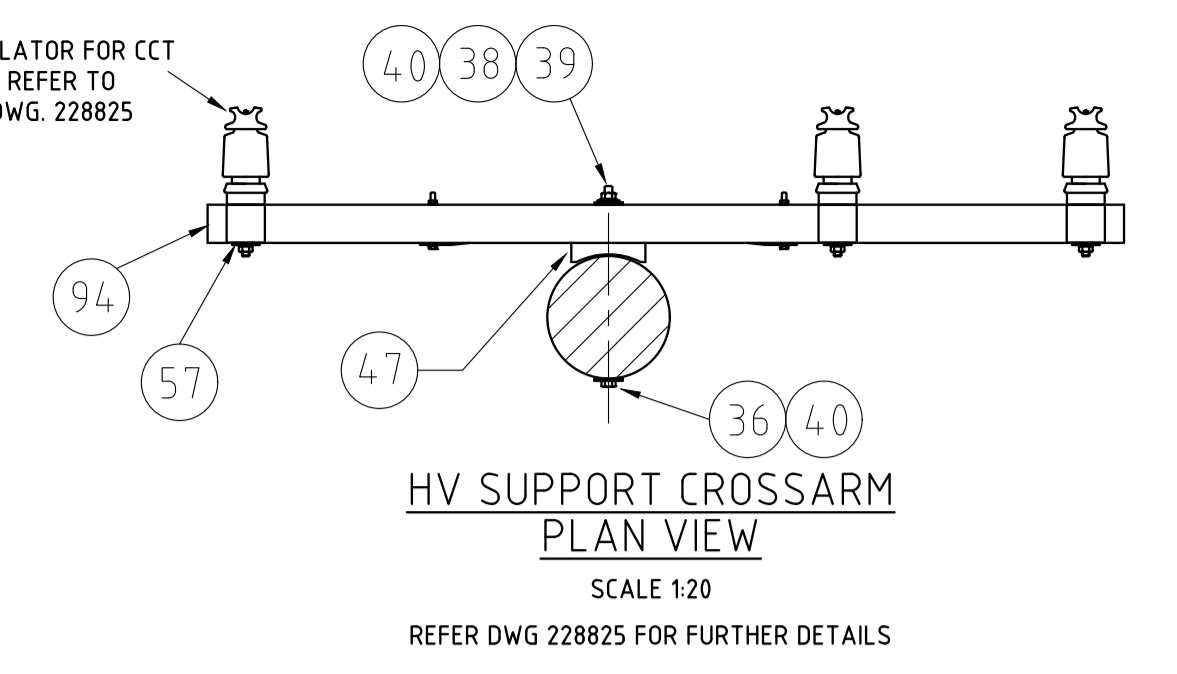
PLAN VIEW - SINGLE FUSE



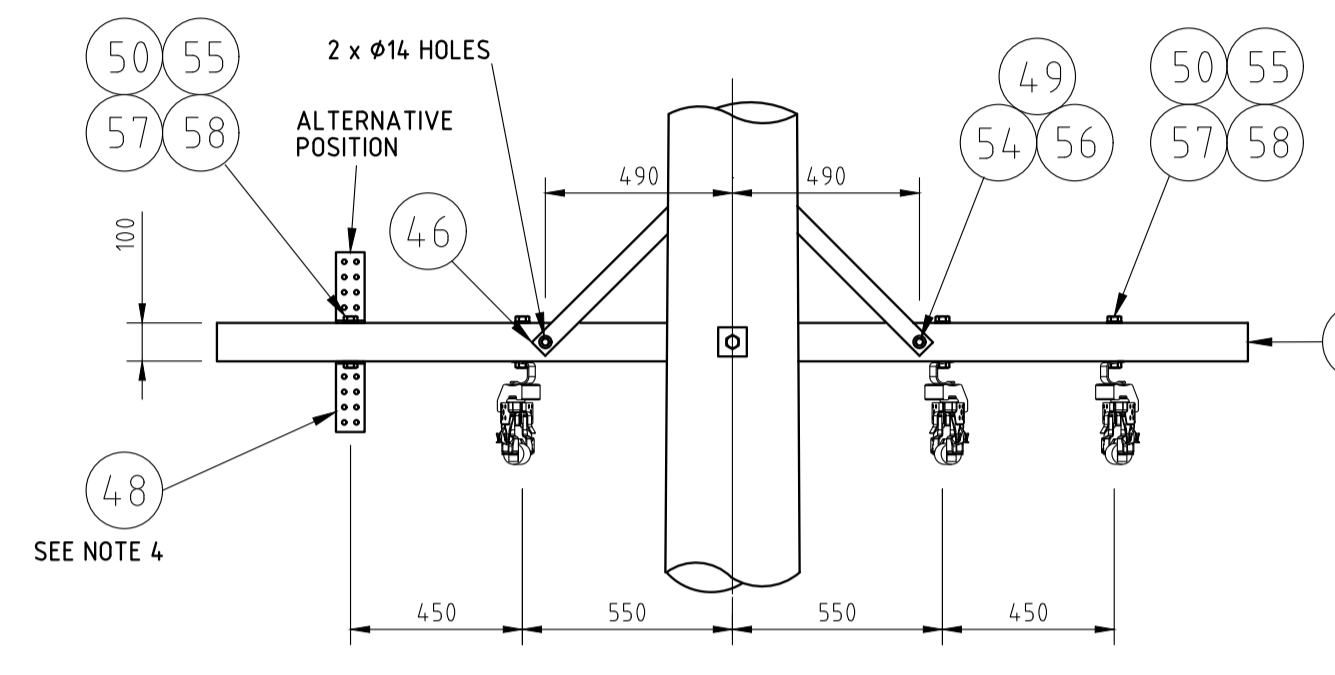
PLAN VIEW - DUAL FUSE



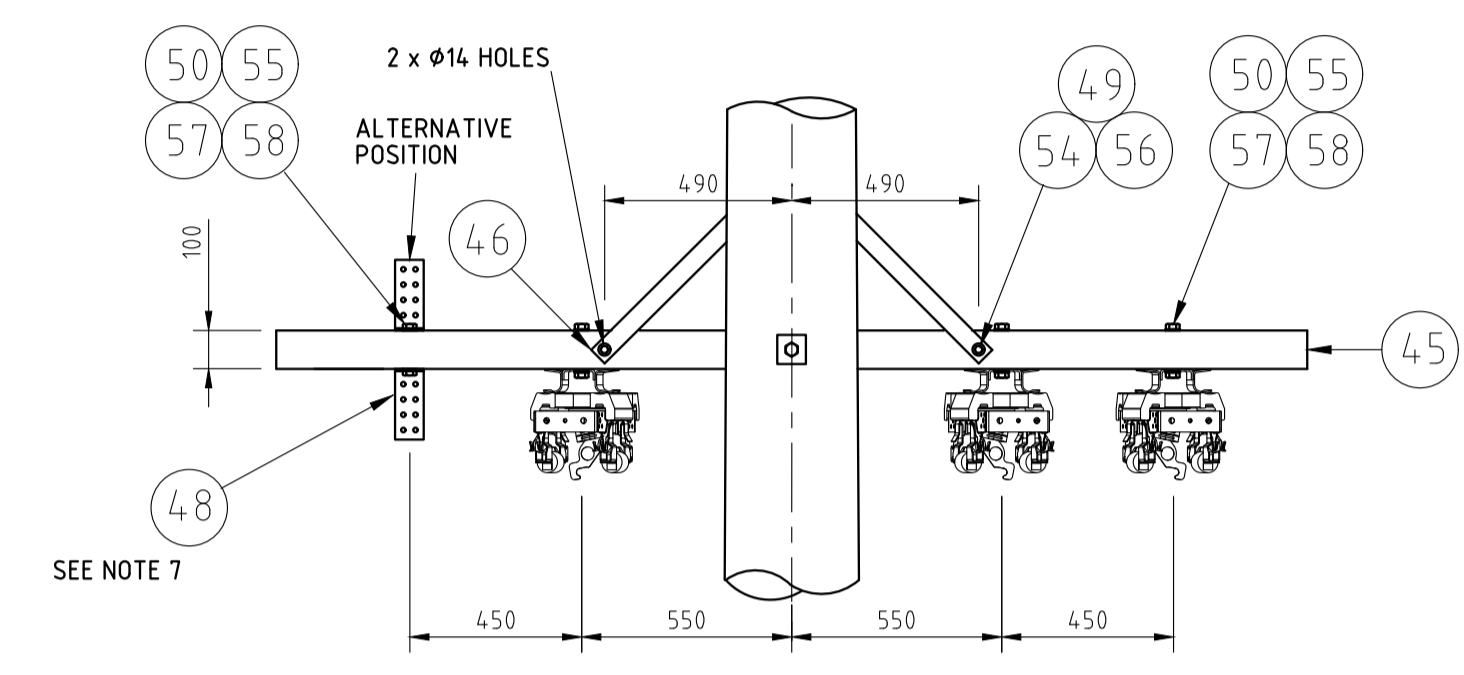
HV DROPOUT FUSE CROSSARM PLAN VIEW



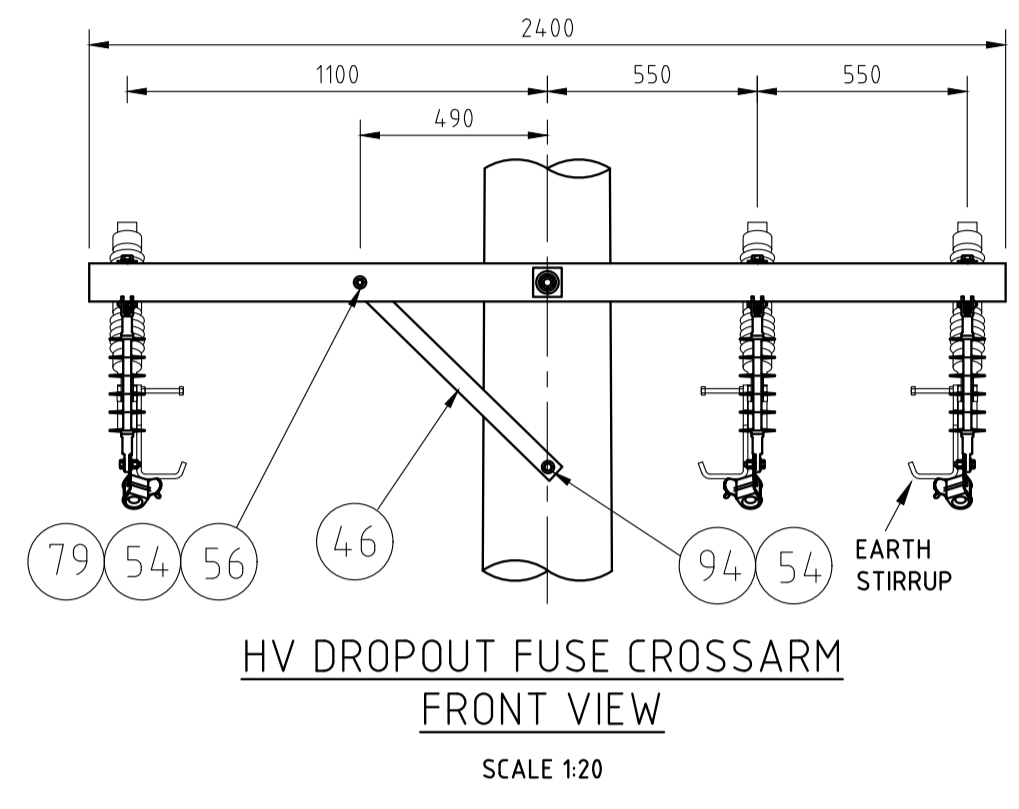
HV SUPPORT CROSSARM PLAN VIEW



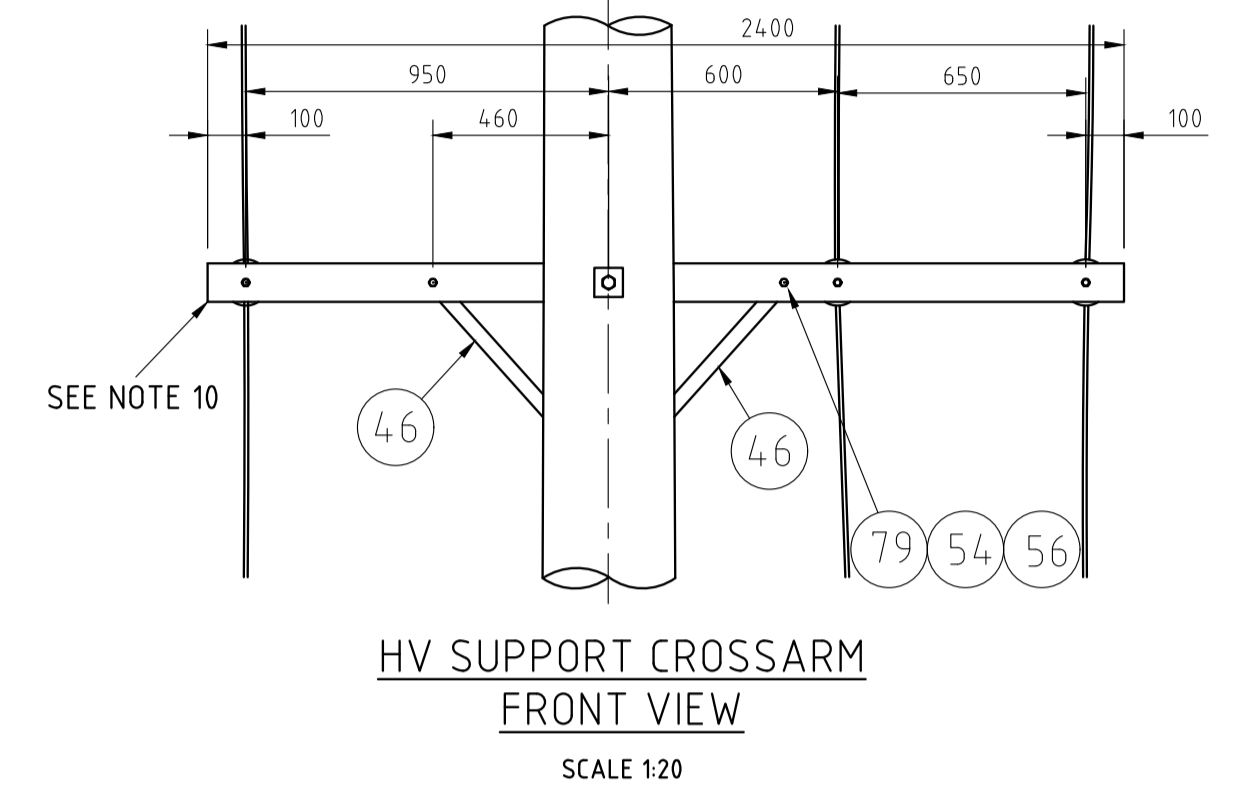
FRONT VIEW - SINGLE FUSE



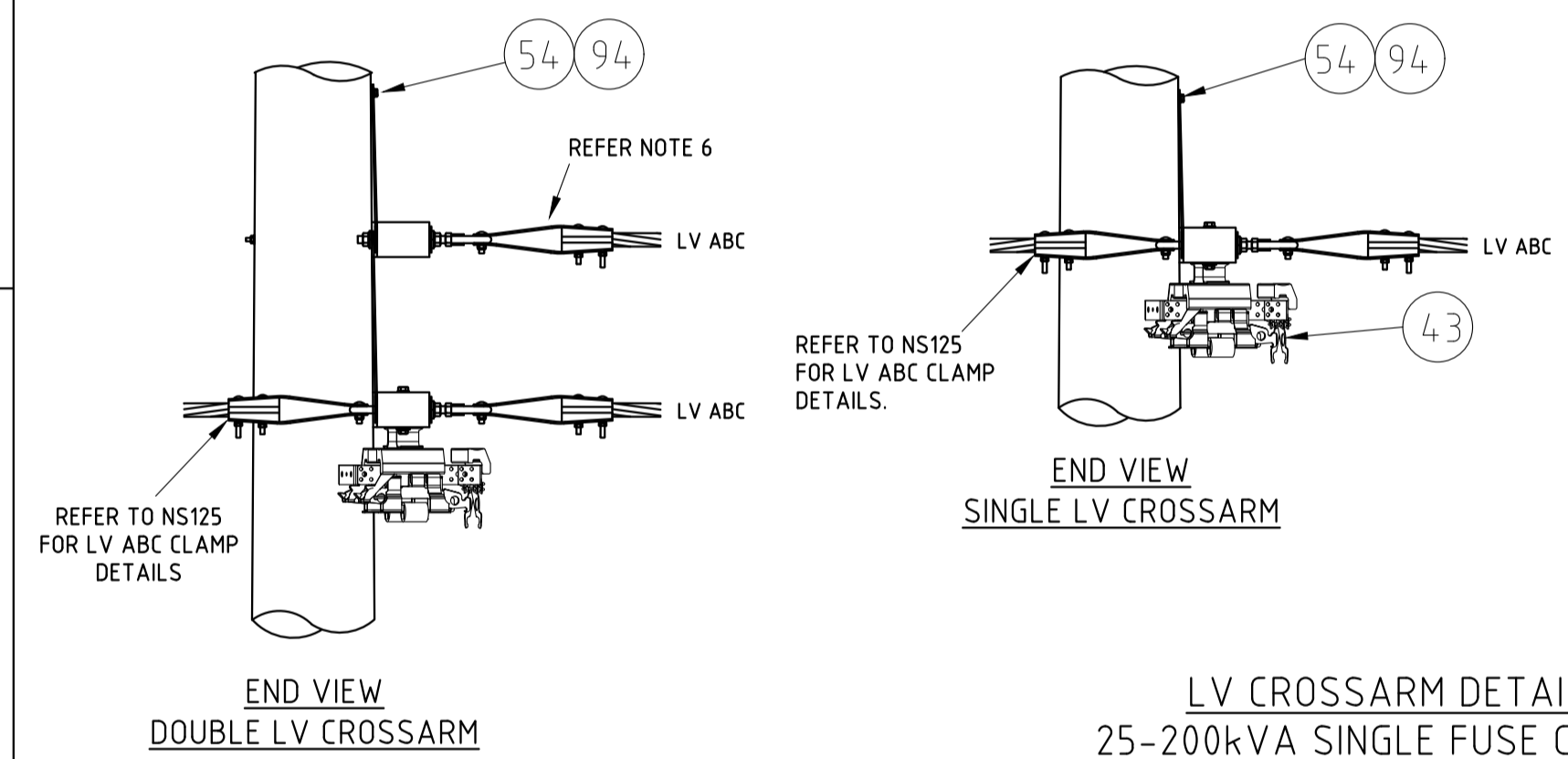
FRONT VIEW - DUAL FUSE



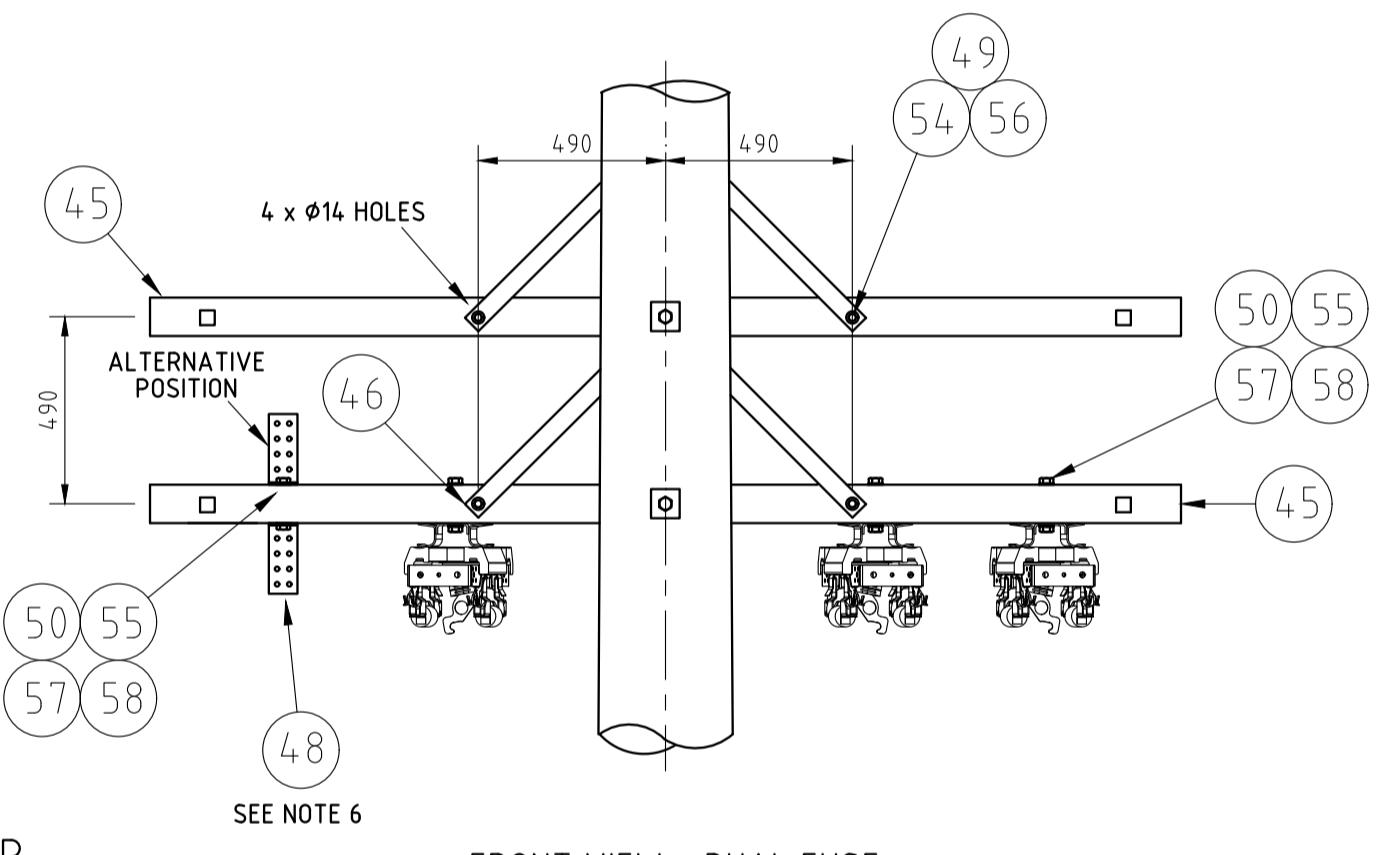
HV DROPOUT FUSE CROSSARM FRONT VIEW



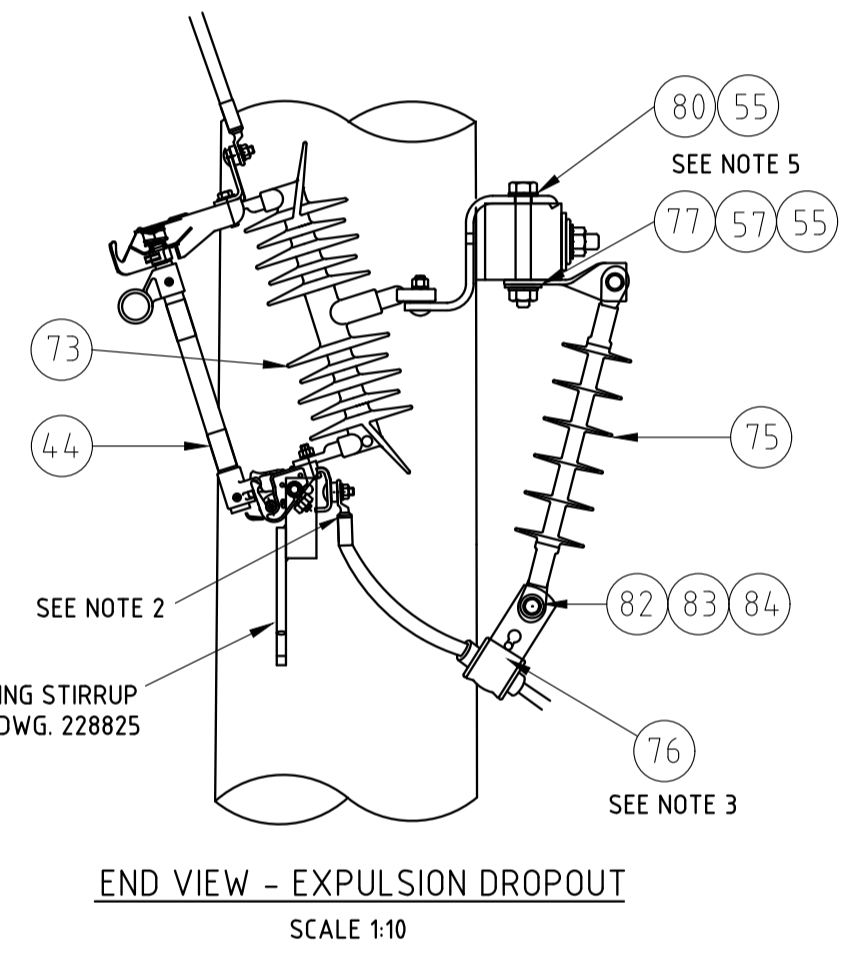
HV SUPPORT CROSSARM FRONT VIEW



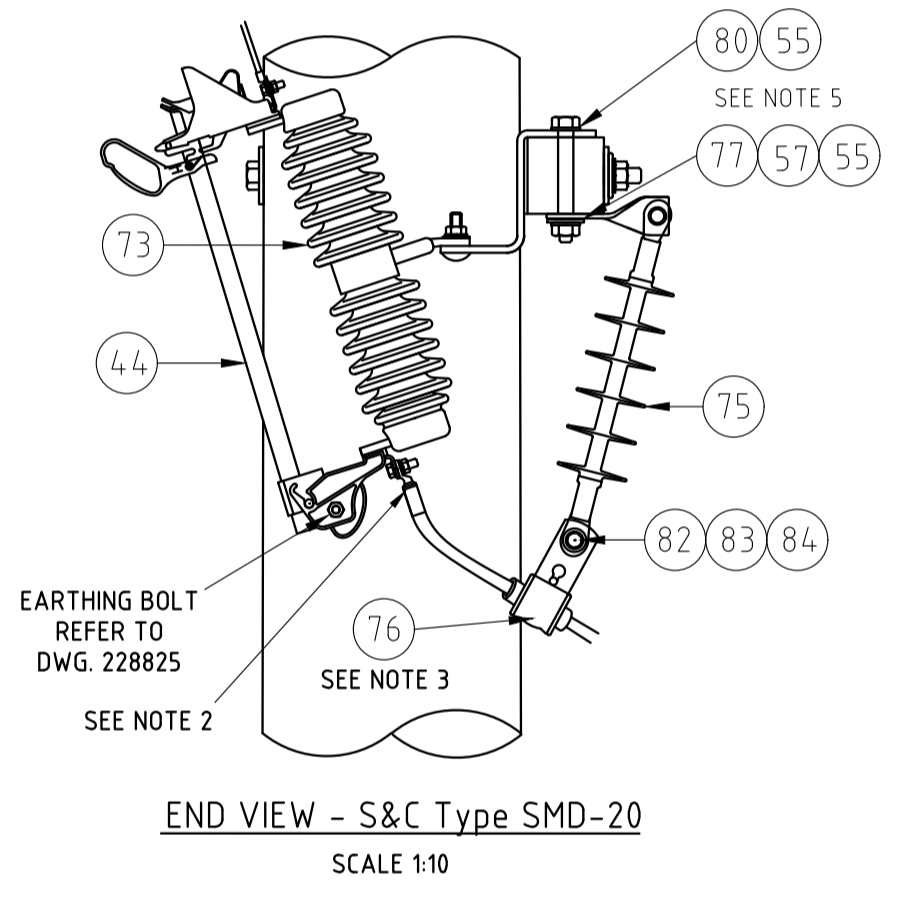
LV CROSSARM DETAILS
25-200kVA SINGLE FUSE CARRIER
200-400kVA DUAL FUSE CARRIER
SCALE 1:20



FRONT VIEW - DUAL FUSE WITH DOUBLE LV CROSSARM



END VIEW - EXPULSION DROPOUT
SCALE 1:10



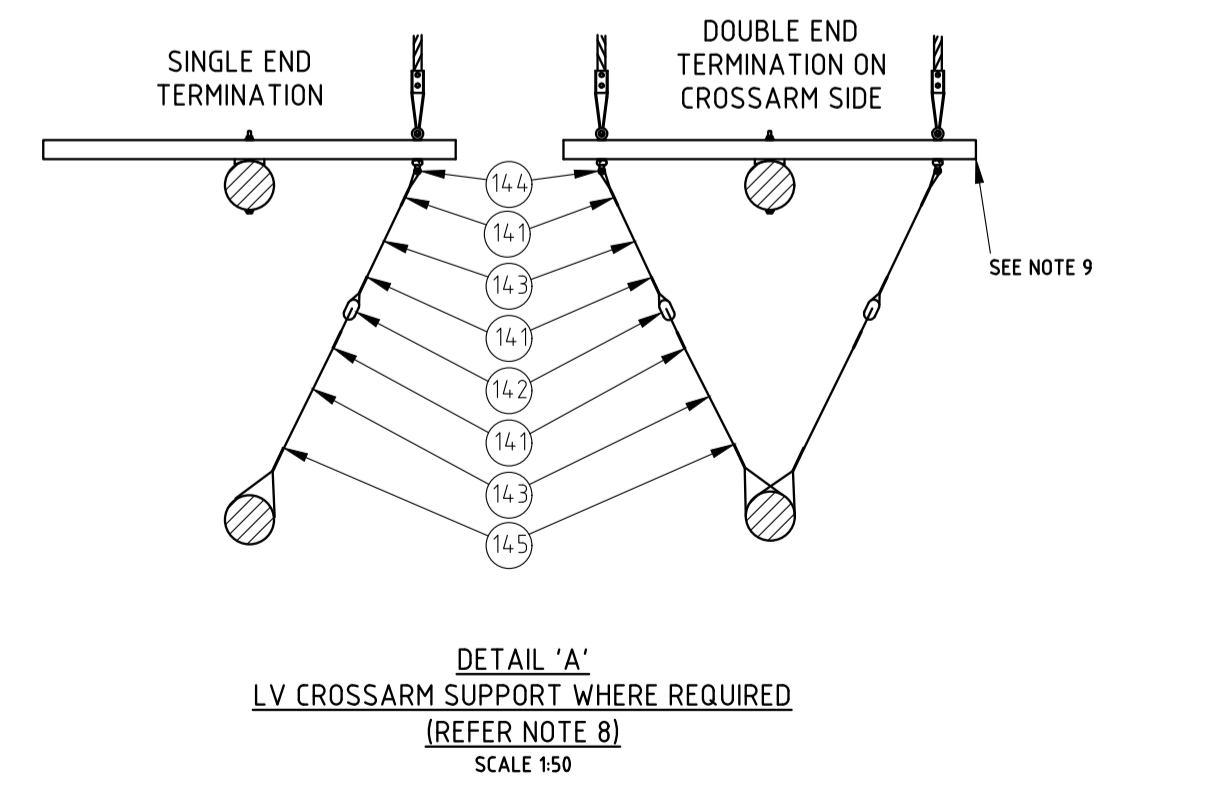
END VIEW - S&C Type SMD-20
SCALE 1:10

REFER TO DRAWING 228827 FOR OPEN WIRE CROSSARM DETAILS

LV ABC CROSSARM DETAIL

ITEM NUMBERS ARE SHOWN ○
REFER TO DRAWINGS 228821 OR 244219 FOR ITEM NUMBERS

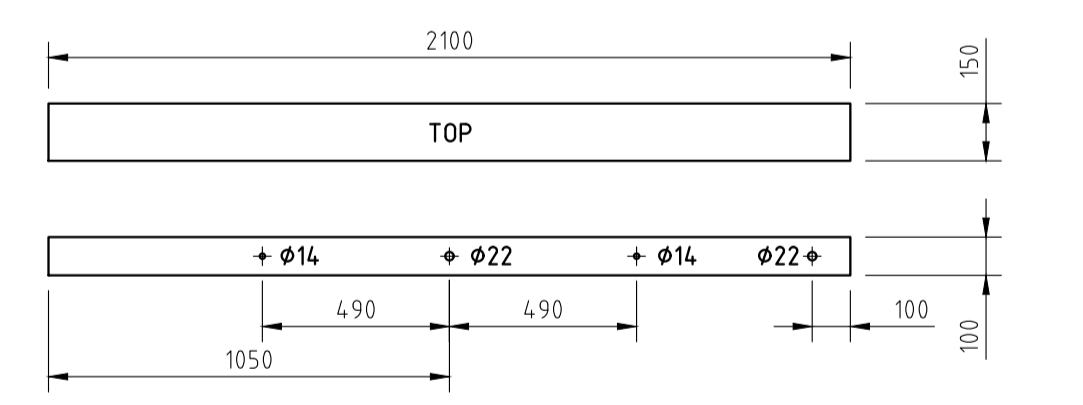
HV CROSSARM DETAILS



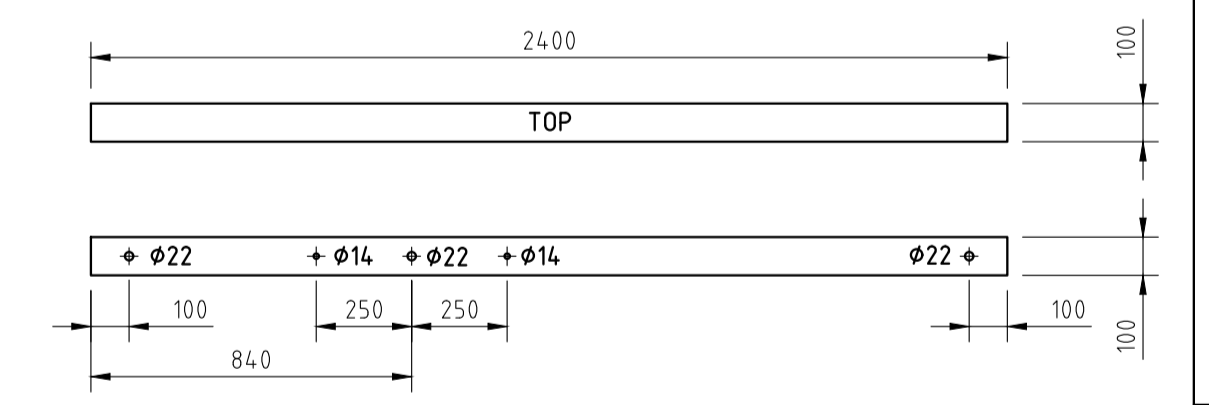
DETAIL 'A'
LV CROSSARM SUPPORT WHERE REQUIRED
(REFER NOTE 8)
SCALE 1:50

NOTES

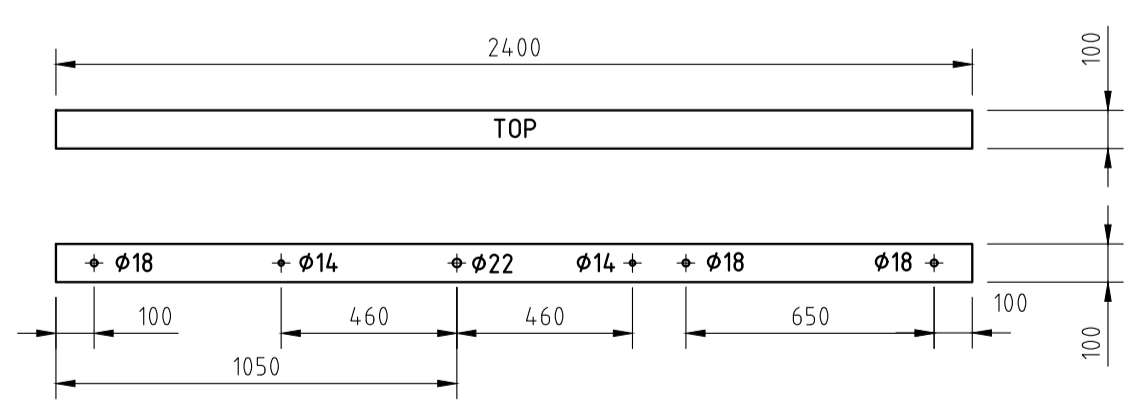
- HV FUSES AND LV FUSES ARE TO BE ANGLED 15° TOWARDS THE CENTRE OF THE POLE.
- MINIMUM CLEARANCES: 11kV TO EARTH TO BE GREATER THAN 200mm.
HV TO HV & HV TO LV WITH DROPOUT FUSE OPEN TO BE GREATER THAN 350mm
- SUSPENSION CLAMP (ITEM 76) MUST BE A FIRM CLAMP ON HV DROPPER CABLE. CONDUIT INSERTS MAY BE USED TO ACHIEVE A FIRM CLAMP.
- B PHASE (CENTRE) HV FUSE ACCEPTABLE TO BE INSTALLED ON EITHER SIDE OF CROSSARM TO SUIT HV FEEDER CROSSARM PIN ARRANGEMENT. CROSSARM BRACE (ITEM 46) MUST BE MOUNTED OPPOSITE TO B PHASE HV FUSE.
- WHEN INSTALLING FUSE BASE (ITEM 73) ONTO THE CROSSARM, FIRST INSTALL AN M16 FLAT ROUND WASHER ONTO THE M16 BOLT, THEN PASS THE BOLT THROUGH THE FUSE BASE MOUNTING BRACKET & THE CROSSARM. SECURE BY FIRST INSTALLING THE TWISTED PLATE (ITEM 77) FOLLOWED BY AN M16 CONICAL WASHER, THEN ANOTHER M16 FLAT ROUND WASHER AND FINALLY THE NUT.
- WHERE MORE THAN 2 LV ABC CABLES ARE REQUIRED IN ONE DIRECTION, AN ADDITIONAL CROSSARM MAY BE INSTALLED ABOVE EXISTING LV CROSSARM. THE UPPER CROSSARM CAN ONLY HAVE LV ABC CABLES RUNNING IN THE DIRECTION SHOWN TO AVOID CLEARANCE AND OPERATING ISSUES WITH HV DROPPER CABLES.
- LV NEUTRAL COLLECTION PLATE MAY BE INSTALLED EITHER BELOW OR ABOVE LV CROSSARM.
- A LV CROSSARM THAT WILL BE SUBJECTED TO UNBALANCED LOADS WHICH WOULD EXCEED THE PERMISSIBLE DESIGN LOAD LIMITS OF THE CROSSARM, MUST BE STAYED IN ACCORDANCE WITH DETAIL 'A' PRIOR TO ATTACHING THE UNBALANCED LOAD TO THE CROSSARM. MINIMUM HEIGHT OF STAY TO BE 6.0m ABOVE CENTRE OF CARRIAGEWAY AND 5.5m ABOVE KERB. REFER TO NS220 FOR FURTHER DETAILS.
- WHEN A DOUBLE END TERMINATION OCCURS ON THE POLE SIDE OF THE LV CROSSARM, A STAY WIRE IS WILL NOT BE REQUIRED.
- A HV SUPPORT CROSSARM IS REQUIRED FOR ALL POLES WHERE THE DISTANCE BETWEEN HV FEEDER & HV DROP-OUT FUSE CROSSARM IS EQUAL TO OR GREATER THAN 1500mm. THE SUPPORT CROSSARM IS TO BE CONSTRUCTED AS SHOWN IRRESPECTIVE OF THE TYPE OF HV MAINS CABLE, MIDWAY BETWEEN THE HV FEEDER AND HV DROP-OUT FUSE CROSSARM.



COMMUNICATIONS CROSSARM (ITEM 131a)
SCALE 1:20



COMMUNICATIONS CROSSARM (ITEM 131b)
SCALE 1:20



HV SUPPORT CROSSARM (ITEM 94)
SCALE 1:20

CROSSARM DRILLING DETAILS

1. ITEMS 131a & 131b AMENDED.
2. ITEM 131c DELETED.
3. ITEMS 5 & 6 AMENDED.
4. ADDITIONAL LV END VIEW OPTION.
5. HV EXPULSION DROPOUT FUSE DETAIL UPDATED TO CURRENT POLYMER TYPE.
6. P/N: PM02-02013-9-21013
7. C/MABUTT 15/10/14
8. CHECKED: P. JARVIS
9. APPROVED: D. GREYV
10. 2. HV SUPPORT CROSSARM FOR POLES GREATER THAN 11kV. DETAILS ADDED.
11. 14.2 HOLES CROSSARM DRILLING DETAILS ADDED.
12. NOTE 10 ADDED.
13. P/N: DPX-06568-1-1-6
14. M. GHARAN 27/12/15
15. CHECKED: P. JARVIS
16. APPROVED: P. JARVIS
17. 3. NEW EARTH STIRRUP ADDED.
18. P/N: DPX-06568-1-1-6
19. M. GHARAN 30/12/16
20. CHECKED: P. JARVIS
21. APPROVED: D. GREYV
22. 4. LV ABC ADDED TO TITLE.
23. REFERENCES TO LV OPEN WIRE CROSSARM DRILLING TABLE UPDATED TO SHOW TIMBER AND COMPOSITE POLES.
24. NOTE 10 ALTERED TO CLARIFY WHEN A HV SUPPORT CROSSARM IS REQUIRED.
25. P/N: 12902840
26. CHECKED: P. JARVIS
27. APPROVED: D. GREYV
28. 5. OUTLINE OF HV/DRO CHANGED TO SHOW CHANGE TO PARKING BOLT FOR HOT LINE CLAMPS.
29. P/N: 81019
30. CHECKED: S. ISLAM
31. APPROVED: D. GREYV

REFERENCE DRAWINGS	
TITLE	DRAWING No
3 PHASE POLE TRANSFORMER ON TIMBER POLE GENERAL ARRANGEMENT	228821
3 PHASE POLE TRANSFORMER ON COMPOSITE POLE GENERAL ARRANGEMENT	244219

CONSTRUCTION



NETWORK STANDARD
SCALE DESIGNED DRAWN CHECKED APPROVED DATE
AS SHOWN
C. MABUTT
P. JARVIS
D. GREYV
15/10/2012
PROJECT NUMBER
PM02-02010-1-3-1
PROJTRAK NUMBER

STANDARD CONSTRUCTION
3 PHASE - 11kV POLE MOUNTED
DISTRIBUTION SUBSTATION
HV, LV ABC AND COMMUNICATIONS
CROSSARM DETAILS
SIZE DRAWING No
A1 228823
SHEET 1
AMD 5