



**NOTES**

- THIS DRAWING OUTLINES THE WORK REQUIRED TO INSTALL AN ABB SAFELINK RMI OVER THE HV SWITCHGEAR PIT SHOWN ON DRAWING 191085 AND IS TO BE READ IN CONJUNCTION WITH THE SUBSTATION LAYOUT DRAWING AND AUSGRID'S NETWORK STANDARDS.
- THIS DRAWING SHOWS WHERE TO CONNECT THE CABLE SCREENS, SWITCH EARTH AND SUBSTATION EARTH BAR TO THE STAND EARTH BAR. FURTHER DETAILS CAN BE FOUND IN NS114 AND NS177. THE SWITCH TO STAND EARTH CONNECTION IS TO BE DONE USING THE 70mm<sup>2</sup> COPPER CABLE FOUND ON STOCK CODE 60111 WITH CABLE LUGS TO STOCK CODE 70431.
- THE HV SWITCH IS TO BE MOUNTED ON THE SUPPORTING STEELWORK DETAILED ON DRAWING 191085 TO THE DIMENSIONS SHOWN ON THIS DRAWING.
- THE SPACING OF THE SUPPORTING STEELWORK IS TO BE ADJUSTED TO SUIT THE HV SWITCH.
- THE SUPPORTING STEELWORK IS TO BE DRILLED ON SITE TO SUIT THE HV SWITCH.
- ALL FLEXIBLE CONDUIT AND CABLE GLANDS ARE TO BE GREY 20mm MEDIUM DUTY UV ESTABLISHED TO AS 2053.
- UNISTRUT SUPPORT BRACKETS ARE TO BE ADJUSTED SO THAT HV CABLE REMAINS AS STRAIGHT AS POSSIBLE.
- SAFELINK 2 HV SWITCHES ON STOCK CODE 179642 REQUIRE AN EXTERNAL EFI AND CT's. THESE CAN BE FITTED TO EITHER SIDE OF THE HV SWITCH. SAFELINK 2 HV SWITCHES ON STOCK CODE 184921 DO NOT REQUIRE ITEMS 7, 8 AND 9 AS THEY ARE SUPPLIED WITH A FACTORY FITTED EFI AND INTERNAL CT's ON RIGHT SIDE FEEDER SWITCH. REFER TO THE SUBSTATION DESIGN INFORMATION PLAN FOR DETAILS OF SUITABLE HV SWITCH.
- FLEXIBLE CONDUIT FOR AN EXTERNAL EFI IS TO BE TERMINATED ON THE BRACKET VIA SUITABLE CONDUIT GLANDS. THE CONDUIT IS TO BE TIED TO THE CT ADJACENT TO THE CABLE ENTRY POINT.
- IF HV SWITCH SETOUT RESULTS IN AN UNCOVERED SPACE BETWEEN THE SWITCH AND THE END OF THE PIT, THE SPACE MUST BE COVERED WITH 6mm FLOOR PLATE. REFER TO DRAWING 191085 FOR FURTHER DETAILS.

REFERENCE DRAWINGS	
ABB SAFELINK CFC RMI GENERAL ARRANGEMENT	A3-224421
ABB SAFELINK RMI MOUNTING STAND FOR CHAMBER SUBSTATIONS CONSTRUCTION DETAILS	A3-192959
HV PIT CONSTRUCTION AND SUPPORTING STEELWORK	B1-191085

MATERIAL LIST			
ITEM No	DESCRIPTION	REMARKS	No. OFF
1a	ABB SAFELINK 2 RMI (CFC) WITHOUT EFI	(STOCKCODE 179642) REFER NOTE 8	1
1b	ABB SAFELINK 2 RMI (CFC) WITH INTEGRATED SIGMA EFI	(STOCKCODE 184921) REFER NOTE 8	1
2	ABB SAFELINK RMI - MOUNTING STAND	REFER DRAWING 192959 (STOCKCODE 181813)	1
3	SUPPORTING STEELWORK	REFER DRAWING 191085	4
4	HOLD DOWN BOLTS	M16 GALVANISED BOLTS, NUTS & WASHERS	4
5	HV CABLES	AS PER DESIGN INFORMATION PACKAGE	9
6	CABLE CLAMPS	AS PER NETWORK STANDARD 177	6
7	EFI CT	REFER NOTE 8	1
8a	EFI (EXTERNAL FOR SAFELINK 2)	REFER NOTE 8 AND DRAWING 113884	1
8b	EFI (SUPPLIED WITH SAFELINK 2)	REFER NOTE 8	1
9	EFI CT LEADS FLEXIBLE CONDUIT	REFER NOTES 8 & 9	1

**Ausgrid**  
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 SYDNEY NSW 2000

ISSUED FOR CONSTRUCTION

SCALE	AS SHOWN
DESIGNED	-
DRAWN	P.JARVIS
CHECKED	J.WALKER/C.MABBUTT
APPROVED	M.GIBSON
DATE	14/01/2019
TRIM REF	-
PROJECT NUMBER	PM02-02010-1-5-1

**CUSTOMER CHAMBER TYPE SUBSTATIONS  
 INSTALLATION OF ABB SAFELINK  
 RMI SWITCH**

DRAWING No **224420** SHEET 1 AMD 2 SIZE A1

**CAD DRAWING**  
 DO NOT MANUALLY AMEND

**AMENDMENTS**

1. DETAIL 1 ADDED & NOTE 2 ALTERED TO CLARIFY EARTHING. ITEMS 1b & 8b ADDED. NOTES 8 AND 9 ALTERED TO INDICATE EFI OPTION.  
 P.JARVIS 14/1/19  
 J.WALKER/C.MABBUTT CHECKED  
 M.GIBSON APPROVED

2. NEW UPDATED BORDER ADDED.  
 S.MUNRO 23/09/2024  
 M.BENNETT CHECKED  
 M.BENNETT APPROVED