



REFERENCE DRAWINGS

UNDERGROUND SUB. MARK 4 HATCHCOVER ARRANGEMENT	B1-28216
UNDERGROUND SUB. PERSONNEL & EQUIPMENT HATCH INSTALLATION	A1-28949
LIFTING ROPE FOR TELESCOPING LADDER & GUARD	A2-65470
SYDNEY CBD TYPE SUB. EMERGENCY PULL-OUT GEAR EQUIPMENT	B1-16500

NOTES

- ALL STEELWORK TO BE FABRICATED IN ACCORDANCE WITH AS 4100.
- AFTER FABRICATION, ALL BURRS AND SHARP EDGES TO BE REMOVED.
- ALL WELDING TO BE IN ACCORDANCE WITH AS 1554 PART 1.
- CONSUMABLES (ELECTRODES) SHALL BE MATCHED WITH THE STEEL TYPE IN COMPLIANCE WITH AS/NZS 1554.1 TABLE 4.6.1(A) & THE RELEVANT COLUMNS OF THE TABLE DEPENDING ON THE TYPE OF WELDING PROCESS BEING UNDERTAKEN.
- UNLESS NOTED OTHERWISE:
  - (a) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS, CATEGORY GP.
  - (b) BUTT WELDS SHALL BE CONTINUOUS FULL PENETRATION, CATEGORY SP.
  - (c) ALL WELDS TO BE CARRIED OUT IN THE SHOP UNLESS NOTED AS 'WELD ON SITE'.
- WELDS SHALL BE INSPECTED TO AS/NZS 1554.1 CLAUSE 7.3 (VISUAL INSPECTION OF WORK) UNLESS THE WELDING PROCESS IS SUPERVISED AND CARRIED OUT BY QUALIFIED PERSONNEL AS DEFINED IN AS/NZS 1554.1 CLAUSE 4.12.1 AND CLAUSE 4.12.2.
- AFTER FABRICATION, ALL WELDS TO BE CHIPPED FREE OF SLAG.
- WHERE THE GALVANISING FINISH HAS BEEN REMOVED, AREA TO BE TREATED WITH COLD GALVANISING PAINT. SIMILAR TO GALMET OR ZINCIFIX. COATINGS TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
- WHERE THE PAINTED FINISH HAS BEEN REMOVED, RETOUCH THESE AREAS WITH APPROPRIATE SIGNAL RED ENAMEL PAINT.
- ALL BOLTS, NUTS AND WASHERS TO BE HOT DIP GALVANISED TO AS 1214.
- ALL BOLTS TO BE GRADE 4.6/s TO AS 1111.
- FINISHED LADDER TO BE SMOOTH, SQUARE AND PARRALLEL WITHOUT RADIAL TWIST OR BOWING BETWEEN THE STILES.

21	CONNECTING PLATE	1 SET	A2-19148
20	FIXED LADDER EXTENSION	1	A2-19148
19	FIXED LADDER FLOOR PLATE	1 SET	A3-19144
18	FIXED LADDER	1	A2-19142
17	COUNTERWEIGHT - TELESCOPING LADDER	2	A3-19143
16	WIRE ROPE ANCHOR	2	A1-19126
15	GAL STEEL WIRE 6/19 x DIA 4mm. "SUPPLIED BY AUSGRID"	2	"ON INSTALLATION"
14	ROLLER PINS - TELESCOPING LADDER	8	A2-19137
13	PAWL - TELESCOPING LADDER	1	A2-19141
12	TELESCOPING GUARD	1	A1-19134
11	SHEAVE - COUNTERWEIGHT	2	A2-19137
10	SHEAVE - PIN	2	A2-19137
9	SHEAVE BRACKET	1 SET	A1-38631
8	LADDER BRACKET	1 SET	A1-38631
7	ISOLATION HANDLE	(INFORMATION ONLY)	B1-16500
6	TELESCOPING LADDER	1	A1-19126
5	LADDER PAWL SASH CORD "2300mm LONG"	1	"MILLER" OR EQUIV.
4	GUARD SIDE COVER & CLIPS	2	A2-19140
3	GATE LATCH	1	A2-38838
2	GATE SPRING	1	A3-19128
1	GATE	1	A2-19127
ITEM	DESCRIPTION	Q'TY (per set)	DRAWING No.

CAD DRAWING DO NOT MANUALLY AMEND A M E N D M E N T S	7. NOTES UPDATED: RINGS WERE FLAT NOW 900 & ITEM JUST UPDATED: REBRANN ON CAD. PULL-OUT HANDLE WAS SECURED TO SHEAVE BRACKET.	P.J.H. CHECKED 02/12/2003 GA
	8. NEW AUSGRID BORDER & LOGO ADDED.	11/09/2003 T.LAMPARD APPROVED
	9. BORDER & TITLE BLOCK UPDATED. M.BENNETT CHECKED 09/09/2024 L.MARTINUZZI APPROVED	



24-28 Campbell Street  
SYDNEY NSW 2000

ISSUED FOR  
CONSTRUCTION

SCALE	1:5
DESIGNED	-
DRAWN	OH
CHECKED	-
APPROVED	-
DATE	15/12/1969
TRIM REF	-

PROJECT NUMBER	99-15-4-83
----------------	------------

UNDERGROUND SUBSTATIONS  
PERSONNEL ACCESS LADDER - MARK 4  
ARRANGEMENT

DRAWING No	38630	SHEET	1	AMD	9	SIZE	B1
------------	-------	-------	---	-----	---	------	----