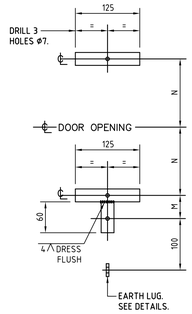
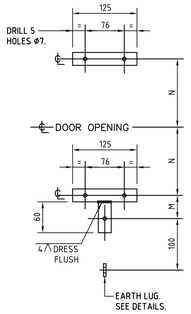


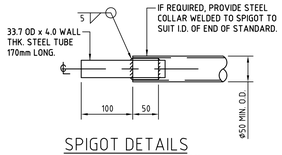
PANEL MOUNTING BRACKET & EARTH LUG ARRGT & DETAILS

MATERIAL : 25 x 5mm THK M.S
FOR STANDARDS 6.5m & BELOW.



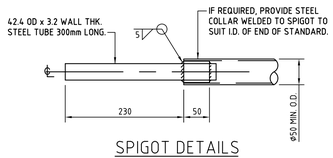
PANEL MOUNTING BRACKET & EARTH LUG ARRGT & DETAILS

MATERIAL : 25 x 5mm THK M.S
FOR STANDARDS 7.5m & ABOVE.



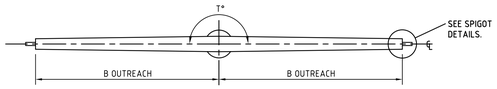
SPIGOT DETAILS

FOR 6.5m & 7.5m STANDARDS ONLY.

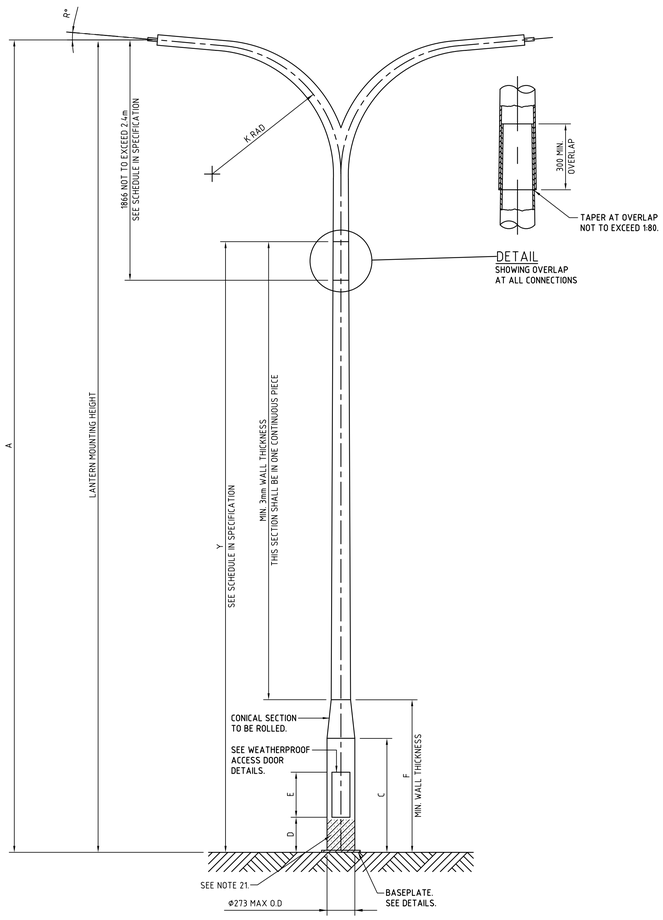


SPIGOT DETAILS

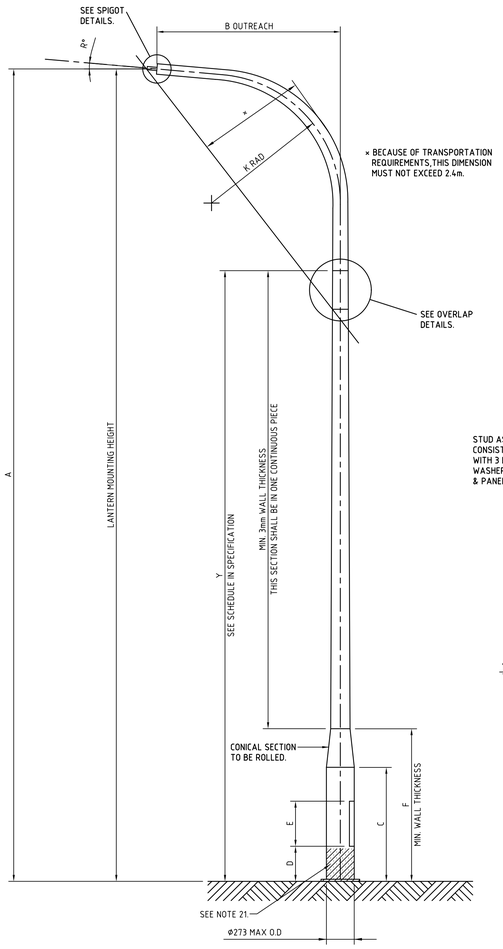
FOR STANDARDS OTHER THAN 6.5m & 7.5m.



STANDARD LANTERN MOUNTING HEIGHT	DESCRIPTION	STOCK CODE	A mm	B mm	C mm	D mm	E mm	F mm MIN	H mm MIN		K mm	M mm	N mm		ANGLE R°	ANGLE T°	U REQ'D		REMARKS
6.5m	6.5m 1 x 2m	100115	6500	2000	1070	460	420	4.8	180		1500	60	178		5	–	3	A2-62525	SEE REF B – 6
6.5m	6.5m 1 x 3m	184430	6500	3000	1070	460	420	4.8	180		1500	60	178		5	–	3	A2-62525	SEE REF B – 6
7.5m	7.5m 1 x 2m	184431	7500	2000	1520	460	610	4.8	210		1500	45	286		5	–	5	B1-24969 A1-56312	SEE REF B – 6
7.5m	7.5m 2 x 2m 180°	184432	7500	2000	1520	460	610	4.8	210		1500	45	286		5	180	5	B1-24969 A1-56312	SEE REF B – 6
7.5m	7.5m 1 x 3m	184434	7500	3000	1520	460	610	4.8	210		1500	45	286		5	–	5	B1-24969 A1-56312	SEE REF B – 6
9.0m	9m 1 x 2m	72090	9000	2000	1520	460	610	4.8	210		1500	45	286		5	–	5	B1-24969 A1-56312	SEE NOTES 19 & 20.
9.0m	9m 2 x 2m 180°	184440	9000	2000	1520	460	610	4.8	210		1500	45	286		5	180	5	B1-24969 A1-56312	SEE NOTES 19 & 20.
10.5m	10.5m 1 x 2m	79897	10500	2000	1520	460	610	4.8	210		1500	45	286		5	–	5	B1-24969 A1-56312	SEE NOTES 19 & 20.
10.5m	10.5m 2 x 2m 180°	184445	10500	2000	1520	460	610	4.8	210		1500	45	286		5	180	5	B1-24969 A1-56312 B1-24969	SEE NOTES 19 & 20.
12.0m	12m 1 x 2m	72140	12000	2000	1520	460	610	4.8	210		1500	45	286		5	–	5	B1-24969 A1-56312	SEE NOTES 19 & 20.
12.0m	12m 2 x 2m 180°	72199	12000	2000	1520	460	610	4.8	210		1500	45	286		5	180	5	B1-24969 A1-56312	SEE NOTES 19 & 20.

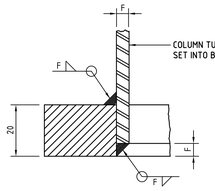


DOUBLE BRACKET ARM

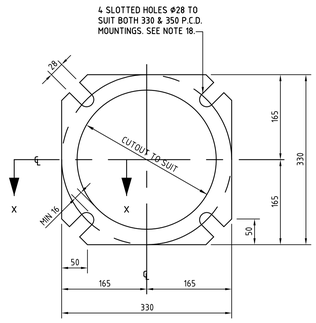


SINGLE BRACKET ARM

* BECAUSE OF TRANSPORTATION REQUIREMENTS,THIS DIMENSION MUST NOT EXCEED 2.4m.

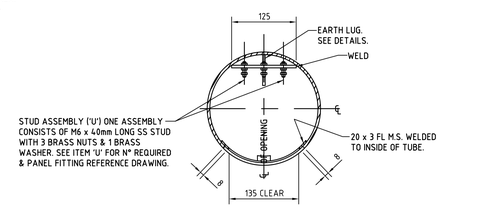


SECTION X – X

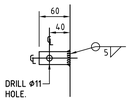


BASE PLATE DETAILS

MATERIAL : 20mm THK M.S.
ENSURE ACCESS DOOR IS SQUARE WITH SLOTTED MOUNTING HOLES IN BASEPLATE.

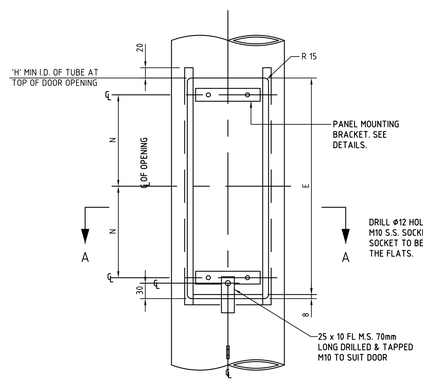


SECTION A – A

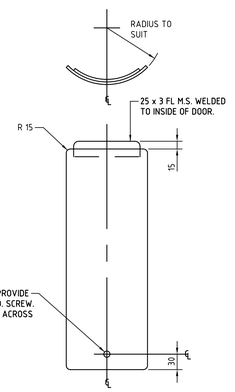


EARTH LUG

MATERIAL : 25 x 5 THK. M.S.



WEATHERPROOF ACCESS DOOR OPENING



ACCESS DOOR

DOOR TO BE A FLUSH FIT WITH OUTSIDE SURFACE OF COLUMN. CONTRACT N° AND/OR YEAR OF MANUFACTURE SHALL BE PUNCHED (BEFORE GALVANISING) ON THE BACK OF DOOR.

SAFETY IN DESIGN NOTES

THE DESIGNER SAFETY REPORT PREPARED BY AUSGRID DESIGNERS IS INTENDED TO MEET THE REQUIREMENTS OF THE SAFE WORK AUSTRALIA CODE OF PRACTICE JULY 2012 AND THE APPLICABLE NSW WHS 2011 REGULATIONS FOR DESIGNER SAFETY REPORT – 295.

S1. DESIGNER SAFETY REPORT – MECHANICAL WORKS – TRIM REFERENCE D16/145942
THIS DESIGNER SAFETY REPORT CONSIDERS MECHANICAL DESIGN ISSUES ONLY AND DOES NOT ADDRESS ELECTRICAL, EARTHING ETC WHICH SHOULD BE ADDRESSED BY THE RELEVANT DESIGNER.

S2. STANDARD INDUSTRY HAZARDS & RISKS WILL STILL EXIST WITH THESE DESIGNS BUT MAY NOT BE NOTED IN THE DESIGNER SAFETY REPORT. THE REPORT INCLUDES ONLY UNUSUAL OR ATYPICAL RISKS ASSOCIATED WITH THE DESIGN.

S3. ALL WORK TO BE UNDERTAKEN IN ACCORDANCE WITH WHS LEGISLATION, WORKCOVER REQUIREMENTS, AUSGRID'S ELECTRICAL SAFETY RULES, BE SAFE PROCEDURES, NETWORK STANDARDS AND ALL OTHER SAFETY PLANS/PROCEDURES AND SWMS.

REFERENCE DRAWINGS

M.E.D. LAMP CHOKE PANELS STREET LIGHTING COLUMNS	B1-24969
STEEL SL STANDARDS CONCRETE FOOTING TYPE A	A3-49438
H.P.S. LAMP CHOKE PANELS STREET LIGHTING COLUMNS	A1-56312
6.5m STREET LIGHTING STANDARD LAMP SUPPLY PANEL	A2-62525
STREET LIGHTING COLUMNS WIND LOADING ALLOWABLE CONDITIONS	A2-118244
INSULATED SPIGOT (CLAMPED TYPE) FOR STREET LIGHTING COLUMNS	A2-151959
33.7mm INSULATED SPIGOT CLAMP TYPE FOR STREET LIGHTING COLUMNS	A2-240795
STANDARD CONSTRUCTION S/L COLUMN PILE FOOTING DETAILS	A2-514087

NOTES

1. ALL STEELWORK TO BE FABRICATED IN ACCORDANCE WITH AS 3990.
2. UNLESS NOTED OTHERWISE:
   (a) ALL HOT ROLLED FLATS TO BE GRADE 250 MINIMUM IN ACCORDANCE WITH AS 1594.
   (b) ALL HOT ROLLED SECTIONS TO BE GRADE 250 MINIMUM IN ACCORDANCE WITH AS 3679.
   (c) ALL HOLLOW SECTIONS TO BE GRADE C350 IN ACCORDANCE WITH AS 1163.
3. AFTER FABRICATION, ALL BURRS AND SHARP EDGES TO BE REMOVED.
4. ALL WELDING TO BE IN ACCORDANCE WITH AS 1554 PART 1.
5. 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.
6. 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'.
7. 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.
8. AFTER FABRICATION, ALL WELDS TO BE CHIPPED FREE OF SLAG.
9. AFTER FABRICATION, ALL STEELWORK TO BE HOT DIP GALVANISED TO AS 4680.
10. AFTER GALVANISING, ALL HOLES TO BE CLEARED AND SHARP EDGES TO BE REMOVED.
11. WHERE THE GALVANISING FINISH HAS BEEN DAMAGED, AREA TO BE TREATED WITH COLD GALVANISING PAINT SIMILAR TO ZINCFIX. COATINGS TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
12. ALL BOLTS, NUTS AND WASHERS TO BE HOT DIP GALVANISED TO AS 1214.
13. EACH SECTION OF COLUMN SHALL BE MADE FROM ONE CONTINUOUS LENGTH OF TUBE. SECTIONS JOINED BY WELDING WILL NOT BE ACCEPTED.
14. ALL WELDED JOINTS TO BE SEAL WELDED.
15. DRAWING TO BE READ IN CONJUNCTION WITH ASSOCIATED SPECIFICATION.
16. TOLERANCING IS TO BE IN ACCORDANCE WITH AS 1798.
17. COLUMNS SHALL BE CAPABLE OF SUPPORTING THE LANTERN MASS & WITHSTANDING THE WINDFORCES TO AS 1170.2 & AS SPECIFIED ON DRAWING A2-118244.
18. SLOTTED HOLES IN BASEPLATE ARE TO SUIT 330mm & 350mm P.C.D. MOUNTINGS TO CONFIRM TO FIG. 1 LIMIT GUAGE AS FOUND IN A.S. 1798.
19. WHEN REQUIRED, FIT A 1m EXTENSION BRACKET DRG A2-65411 TO 2m OUTREACH STANDARDS TO CREATE A 3m OUTREACH ARM.
20. ALL STRESS & DEFLECTION CALCULATIONS FOR COLUMNS 9.0m OR GREATER WITH A 2m OUTREACH TO BE MADE ON THE ASSUMPTION THAT A 1m EXTENSION (DRG A2-65411) HAS BEEN ADDED. i.e. OUTREACH IS 3 METRES.
21. COAT BASEPLATE FROM BOTTOM TO 300mm ABOVE GROUND LINE WITH 2 COATS OF 125MICRONS THICK DULUX "DUREBILD S.T.E." EPOXY MASTIC.

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

22. DRAWING BORDER UPDATED. STOCKCODES FOR 10.5 OUTREACH & 4.5m ADDED. CLARIFIED . NOTES UPDATED. C.SAWDY 21.02.2013
23. REFERENCE DRAWINGS UPDATED AND HANDLING DETAILS ADDED. 33.7mm INSULATED SPIGOT. EARTH LUG DETAILS ADDED. 6.5m & 7.5m STANDARDS ADDED. 7.0m & 9.0m ADDED. 4.5m OUTREACH CLARIFIED. 10.5m OUTREACH "COLOUR" BRACKETS REMOVED. C.SAWDY 08.03.2016
24. DRAWING NO. CHANGED TO 7590 WAS 7000. C.SAWDY 11.05.2016
25. STOCK CODES ADDED FOR LANTERN MOUNTINGS.

APPROVED : PHIL HUDSON
DWN: P.R.
CHKD: T.T.
APP'D: G.F.
DATE: 28/02/2023

METRES ON ORIGINAL DRAWING AT SCALE 1:20
0 1 2 m

NETWORK STANDARD

Ausgrid

MECHANICAL DESIGN
570 GEORGE STREET
SYDNEY NSW 2000

SCALE	1 : 5 , 20
DESIGNED	
DRAWN	COLIN SAWDY
CHECKED	K.E.M.
APPROVED	J.H.
DATE	03.12.1986
TRIM REF	2016/2589
PROJECT NUMBER	22048

STREET LIGHTING
STEEL CURVED BRACKET ARM STANDARDS
SINGLE AND DOUBLE BRACKET ARMS
BASEPLATE MOUNTED
LIMITING DIMENSIONS

DRAWING No 66273 | SHEET 1 | AMD 25 | SIZE B1

20111014

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