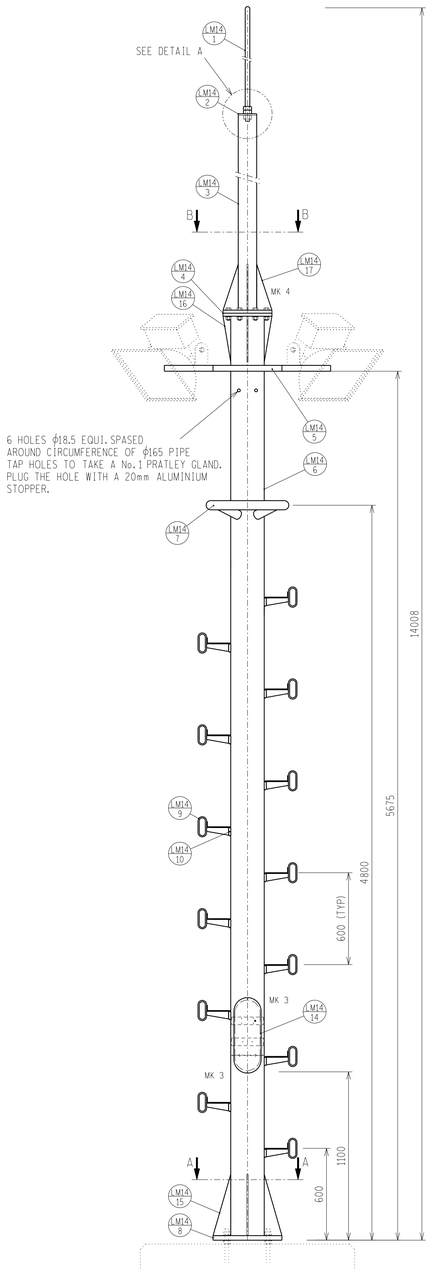

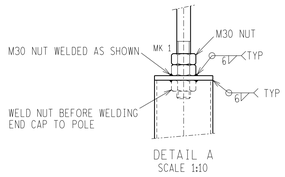

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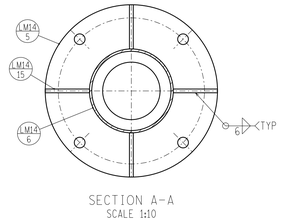

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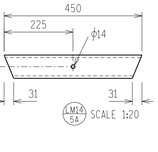

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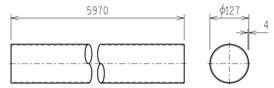

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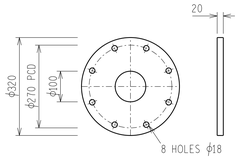

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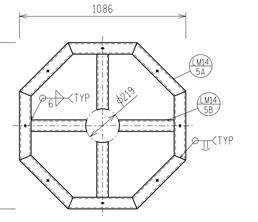

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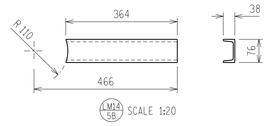
SCALE 1:20



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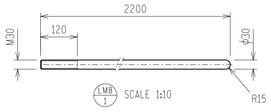

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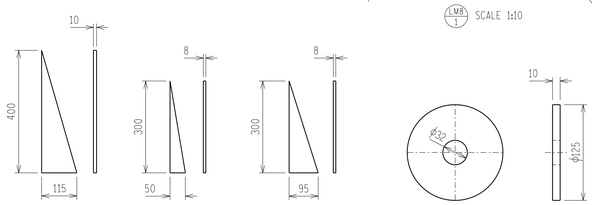

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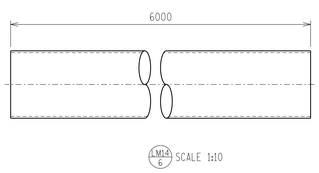

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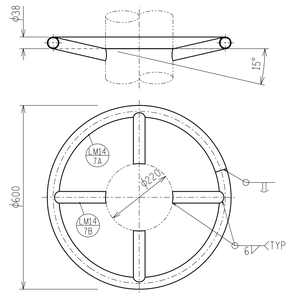

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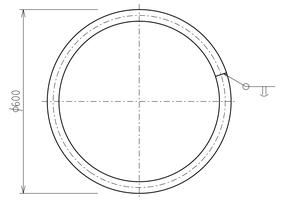

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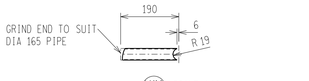

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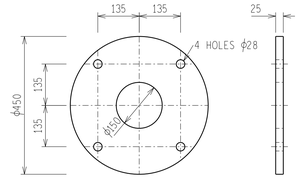

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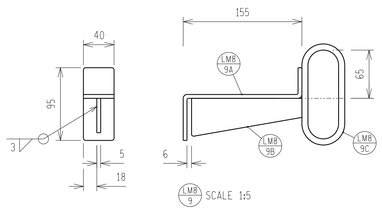
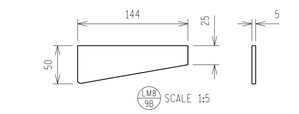


SCALE 1:5 SCALE 1:5



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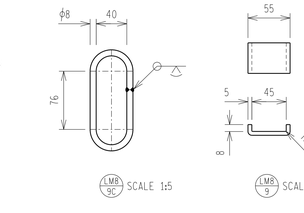

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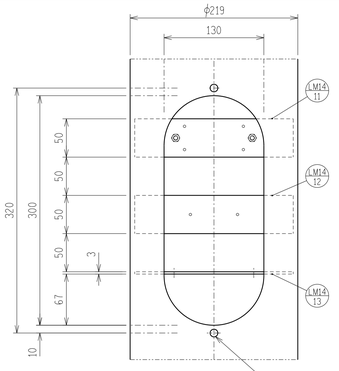

DETAIL C
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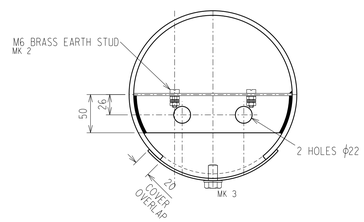

PLAN VIEW DETAIL C
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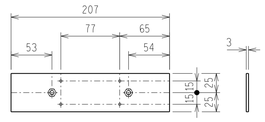

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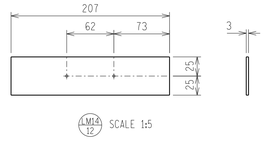

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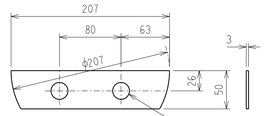

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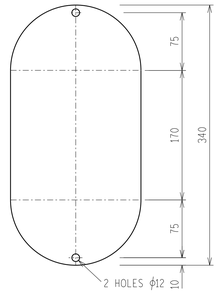

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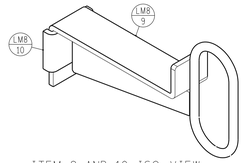


ITEM 9 AND 10 ISO VIEW

NOTES:

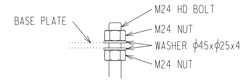
1 ALL WELDING AND WELDING SYMBOLS SHALL CONFORM TO SANS 10044 PART 1 TO 5.
2 ALL STRUCTURAL USE OF STEEL TO CONFORM TO SANS 10162.
3 ALL STEEL TO BE GRADE S355JR/350WA (EXCEPT ANGLES ≤ 45mm TO BE MILD STEEL).
4 ALL WELDS TO BE SEALED WELDED.
5 STEELWORK TO BE HOT DIP GALVANIZED TO SANS 121.
6 STEELWORK TO BE CHECKED AND STRAIGHTENED AFTER GALVANIZING.
7 BOLTS, NUTS & WASHERS TO BE IN ACCORDANCE WITH SANS 1700.
8 ALL MARKINGS TO BE STAMPED ONTO STEELWORK AND SHALL BE CLEARLY LEGABLE AFTER GALVANIZING.
9 NO STEEL EXTENSIONS WILL BE ALLOWED ON ANY STEELWORK.
10 NO SECTIONS TO BE BUTT WELDED.
11 ALL STEELWORK TO BE FABRICATED, ERECTED AND LEVELED TO A TOLERANCE OF + - 1.5mm.
12 ALL HOLES TO BE 18mm DIA UNLESS OTHERWISE STATED.
13 USE A 3x15mm ADHESIVE FOAM SEAL STRIP AROUND ITEM LM14/14 TO PREVENT WATER INGRESS.

BOLT SCHEDULE

MARK	BOLT SIZE mm	MILD STEEL GRADE	PITCH mm	LENGTH MM	NO OFF BOLTS	NO OFF NUTS	NO OFF WASHERS	TORQUE Nm	TOTAL MASS KG
1	M30	4.8	3.5			3		780	0.74
2	M6	BRASS	1	20	1	2	2	0,5	0.01
3	M10	4.8	1	12	2	0	2	25	0.02
4	M16	4.8	1	60	8	8	8	120	1.31
MASS OF BOLTS, WASHERS AND NUTS									2.08

STEEL SCHEDULE AND MASS

ITEM	QTY	DESCRIPTION	CUTTING LENGTH (mm)	TOTAL LENGTH (M)	TOTAL MASS (kg)
LM14/1	1	MILD STEEL ROUND BAR ϕ30	2200	2.20	12.21
LM14/2	1	MILD STEEL PLATE ϕ127 x 10	127	0.13	1.04
LM14/3	1	MILD STEEL ROUND TUBE ϕ127 x 4	5970	5.97	72.42
LM14/4	2	MILD STEEL PLATE ϕ320 x 20	320	0.64	25.25
LM14/5A	8	TF CHANNEL 76 x 38 x 7kg/m	450	3.60	24.12
LM14/5B	4	TF CHANNEL 76 x 38 x 7kg/m	394	1.58	10.56
LM14/6	1	MILD STEEL ROUND TUBE ϕ219 x 6 WALL	6000	6.00	189.18
LM14/7A	1	MILD STEEL ROUND TUBE ϕ38.1 x 2 WALL	1765	1.76	3.14
LM14/7B	4	MILD STEEL ROUND TUBE ϕ38.1 x 2 WALL	210	0.84	2.95
LM14/8	1	MILD STEEL PLATE ϕ450 x 25	450	0.45	25.83
LM14/9A	13	MILD STEEL PLATE 40 x 5	212.5	2.76	4.34
LM14/9B	13	MILD STEEL PLATE 45 x 3	114	1.48	0.79
LM14/9C	13	MILD STEEL ROUND BAR ϕ8	152	1.98	0.98
LM14/10	13	MILD STEEL PLATE 40 x 5	70	0.98	1.54
LM14/11	1	MILD STEEL PLATE 50 x 3	207	0.21	0.25
LM14/12	1	MILD STEEL PLATE 50 x 3	207	0.21	0.25
LM14/13	1	MILD STEEL PLATE 50 x 3	207	0.21	0.25
LM14/14	1	MILD STEEL PLATE 340 x 3	193	0.19	1.35
LM14/15	4	MILD STEEL PLATE 400 x 10	115	0.46	11.54
LM14/16	4	MILD STEEL PLATE 300 x 8	50	0.20	2.83
LM14/17	4	MILD STEEL PLATE 300 x 8	95	0.38	5.37
TOTAL MASS =					396.19



MOUNTING ARRANGEMENT OF FRAME ON FOUNDATION (NTS)

D-DT-5217	SHEET 1B	SUPP.FDN SOIL TYPE 1 & 2
DRG NO.	SHEET NO.	REFERENCE DRAWINGS

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
	THIS DRAWING IS THE NEW OFFICIAL REVISION AND IT SUPERCEEDES ALL OTHER PUBLISHED DRAWINGS					
11	CORRECTED 14M LIGHTING MAST FOUNDATION REFERENCE DRAWING	BMH	NSH	TM	20/12/2018	
10	RENAMED DRAWING, INCREASE THICKNESS OF INTERLINKING PLATES	BMH	NSH	NMM	18/06/2018	

Eskom

AUTH:	B HILL
DATE:	10/12/2002
CHKD:	J SCHOLTZ
DATE:	10/12/2002
DRAWN:	J LE ROUX
DATE:	20/11/2002

LIGHTING-LIGHTNING MAST - 14m
TUBULAR SUPPORT FOR HPS LIGHTS
STEELWORK MANUFACTURING AND ASSEMBLY
(FLOOD LIGHT MOUNTING AT 6m)

SAP No. 0182913	SCALE 1:30	THIS DRAWING IS THE PROPERTY OF ESKOM

D-DT-5217

SET	SHEET	REVISION
	2B	11

A1L