

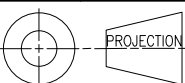

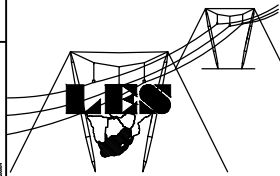
SECTION NO.	1	2	3	4	5	6
SECTION NAME	L1	L2	L3	L4	L5	L7
PANEL TYPE	Straight Sec.	Tapped	Tapped	Tapped	Tapped	Tapped
PANEL HEIGHT	5.1	7.67	4.72	7.47	3.73	6.48
LEGS	90X90X6	100X100X8	120X120X8	120X120X8	120X120X10	150X150X10
DIAGONALS	50X50X4	50X50X4, 60X60X4	60X60X4, 70X70X6	70X70X6, 80X60X6	90X65X6	50X50X4, 90X65X6,
HORIZONTALS	50X50X4, 60X60X4,			60X60X4, 80X60X6,		100X75X6, 60X60X5, 70X70X6
	60X60X8	65X50X6	65X50X6	100X65X8	100X75X6, 70X70X6	90X90X6, 60X60X4

WORKING PLATFORMS	
POS	EL(m)
1	15
2	30
3	33

ANTENNA LOADING CHART						
POS	DESCRIPTION	QTY	EL(m)	SIZE (m2)	AZIMUTH	STATUS
1	7Ghz 2.76m	1	35	1	45	P
2	7Ghz 2.76m	1	31	3	45	P
3	7Ghz 2.76m	1	16	3	45	P

1	DESIGN NOTES
	DESIGN STANDARD : TIA 222 - G
	BASIC WIND SPEED IS 40m/s(3 - SEC GUST)
	WIND LOAD FACTOR FOR SERVICEABILITY LIMIT STATE : 1
	WIND LOAD FACTOR FOR ULTIMATE LIMIT STATE : 1.6
	TOPOGRAPHY : 1
	EXPOSURE CAT : C
	STRUCTURE CLASS : II
	SITE ALTITUDE : 1315 m
	MEAN WIND RETURN : 1 :50
	ARTIFICIAL BASE HEIGHT : 0m
	MAXIMUM DEFLECTION : AS PER TIA 222 - G
2	MATERIAL
	GRADE FOR ALL TOWER MEMBERS : S355JR
	GRADE FOR ALL BOLTS : 8.8
	GRADE FOR ALL NUTS : 8
	GRADE FOR ALL WASHERS: S275JR
	GRADE FOR ANCHORING BOLTS: 4.6
3	ANNTENA AND TRANSMISSION LINES:
	AS PER CLIENT SPECIFICATION, SEE LOADING TABLE IN DRAWING
	FEEDER, CAT LADDER & WAVE GUIDE : AS PER ESKOM SPECIFICATION
4	FUTURE LOADING
	NO FUTURE LOADS AT THIS STAGE

- GENERAL NOTES:
1. ALL BOLTS TO BE M16.
  2. ALL DIMENSIONS ARE ON THE CENTROID.
  3. REDUNDANT MEMBERS SHORTER THAN 1500mm USE 45x45x3 WITH ONE BOLT.
  4. REDUNDANT MEMBERS LONGER THAN 1500mm BUT LESS THAN 2000mm USE 50x50x4 WITH ONE BOLT.
  5. UNEQUAL MEMBERS TO BE SHORT BOLTED.

5								
4								
3								
2								
1								
0	K. GASA	20/11/2019	FIRST ISSUE	NM	NM			
REV	DRAWN BY:	DATE:		AUTH. BY	CHKD			
			TITLE:					
CLIENT:			35m TOWER OUTLINE NONYANE SS					
								
DRAWN: K. GASA		DATE: 31/07/2020		CHECKED: N. MUTHADI		DRAWING No.  0.53-2284-0-4	SHEET 1 OF 1	REV  0
SCALE: 1 : 50		APPROVED: N. MUTHADI						