



GENERAL NOTES

- TOWER DESIGN IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE)
- ALLOWABLE PROJ. AREA (50. FT.) FOR ROUND MEMBER ANTENNAS.
- ALLOWABLE PROJ. AREA (50. FT.) FOR FLAT MEMBER ANTENNAS.
- ALL ANTENNAS MUST BE DESIGNED TO WITHSTAND WIND SPEEDS AS SHOWN ON DRAWING. ANTENNA AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER APEX.
- DESIGN ASSUME ONE 5/8" DIA. LINES ON EACH TOWER FACE.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871392.
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.

INNER ANCHOR DATA
REF. DWG.: BLOCK-C620643; ROD-C660415

OUTER ANCHOR DATA
REF. DWG.: BLOCK-C620643; ROD-C660415

TOWER HT.	BASE PIER			INNER ANCHOR DATA			OUTER ANCHOR DATA					
	NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE HOR. VERT.	SLOPE HOR. VERT.	REAC. LBS. HOR. VERT.	BLOCK NO.	ROD NO.	ROD ANGLE HOR. VERT.	SLOPE HOR. VERT.	REAC. LBS. HOR. VERT.
40'	CB1	2,090	4A	GAR30	47.6	11	12	880	930			
50'	CB1	2,600	4A	GAC303	41.1	12	10.5	1,350	1,180			
60'	CB1	2,820	4A	GAC303	41.6	12	10.7	1,440	1,280			
70'	CB1	3,010	4A	GAC303	41.3	12	10.5	1,570	1,380			
80'	CB1	3,770	4A	GAC303	39.9	12	9.7	2,110	1,710			
90'	CB1	4,050	4A	GAC303	39.9	12	9.7	2,300	1,860			
100'	CB1	4,290	4A	GAC303	39.1	12	9.7	2,440	1,970			
110'	CB1	4,580	4A	GAC303	39.1	12	9.7	2,150	2,090			
120'	CB1	5,390	4A	GAC305	37.4	12	9.2	3,250	2,490			
130'	CB1	5,660	4A	GAC305	37.5	12	9.2	3,420	2,620			
140'	CB1	5,960	4A	GAC305	37.4	12	9.2	3,640	2,780			
150'	CB1	6,930	4A	GAC3501	36.5	12	9.0	4,270	3,160			
160'	CB1	7,110	4A	GAC3501	36.5	12	9.0	4,460	3,310			
170'	CB1	9,140	4A	GAC303	36.7	12	9.6	1,240	990			
180'	CB1	9,480	4A	GAC303	40.2	12	10.2	1,230	1,040			
190'	CB1	9,870	4A	GAC303	42.1	12	10.8	1,250	1,130			

SEE NOTE 6

120'-0'-0" TYP.

NOTE: FOR SPACE REQUIREMENTS SEE DWG. NO. C640531

TOWER PLAN TYPICAL

REVISIONS

No.	Revision Description	Date
1	REV'D EIA-222-D TO EIA-222-E	9-10-91
2	REV'D	1/12-93
3	REV'D	1/12-93

DATE: 9-10-91

BY: RCB

CHKD BY: JCS

APP'D BY: JCS

SCALE: NONE

DATE: 9-1-87

DRAWN: WFF

CHECKED: WFF

APP. ENG.: RAM

APP. SUPERV.: AE

PROJECT: GUYING DETAILS FOR 40'-190' TOWERS

90 MPH BASIC WIND SPEED (NO ICE)

DRAWING NO.: C870488

REV.: RI



Parts List for #25G Guyed Towers
90 MPH Basic Wind Speed (No Ice)

Tower Height

Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'
25G	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
25AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC25G w/3/4 x 12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GA25GD	1	2	2	2	3	3	3	3	4	4	4	5	5	6	6	6
G.W. 3/16" EHS	175'	350'	425'	500'	800'	900'	1000'	1100'	1575'	1750'	1825'	2425'	2650'	2775'	3000'	3150'
BG2142	6	12	12	12	18	18	18	18	24	24	24	30	30	36	36	36
5/16" THH	6	12	12	12	18	18	18	18	24	24	24	30	30	36	36	36
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9	9	12	12	12			6	6	6
T.B. 1/2 x 12 E&J												15	15	12	12	12
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6
GAC303	*	3	3	3	3	3	3	3						3	3	3
GAC305									3	3	3					
GAC3455											3	3	3	3	3	
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
340028 Clamp	3	6	6	6	9	9	9	9	12	12	12	15	15	18	18	18
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

* **Note:** For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger-Watch for Wires labels along with other printed safety information.

All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.