

**GENERAL NOTES**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANS1/EIA-222-E-1591 (NO ICE).
2. ALLOWABLE PROJ. AREA (50' FT.) FOR ROUND MEMBER ANTENNAS. EQUIVALENT FLAT PLATE ANTENNA AREAS, BASED ON ELEV. 220 FEET, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS. HAVING TOTAL PROJECTED AREA OF 120 SQUARE FEET.
3. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
4. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
5. TOWER DESIGNS, 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF POSITIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" DIA. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND).
6. TOWER DESIGN, 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF POSITIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" DIA. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND).
7. TOWER DESIGN, 200 FEET AND OVER, INCLUDE 2.0 SQUARE FEET OF POSITIVE PROJECTED AREA FOR A BEACON (DEDUCT ONE 7/8" DIA. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND).
8. TOWER DESIGN AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 90 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 120 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 150 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 180 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 210 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 240 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 270 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 300 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 330 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 360 DEGREES.
9. TOWER DESIGN AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 90 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 120 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 150 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 180 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 210 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 240 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 270 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 300 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 330 DEGREES. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 360 DEGREES.
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TOWER HT.	BASE PIER		ANCHOR DATA		ANCHOR ROD SLOPE	
	NO.	REAC. LBS.	ROD NO.	ROD ANGLE	ROD HOR.	ROD VERT.
100'	CBI 9,160	4B	GAC3455	44.8	12	11.9
110'	CBI 10,120	4B	GAC3455	44.9	12	11.9
120'	CBI 10,540	4B	GAC3455	44.9	12	11.9
130'	CBI 11,050	4B	GAC3455	44.8	12	11.9
140'	CBI 11,690	4C	GAC3455	43.3	12	11.3
150'	CBI 12,230	4C	GAC3455	43.2	12	11.3
160'	CBI 12,750	4C	GAC3455	43.0	12	11.2
170'	CBI 13,190	4C	GAC3455	42.9	12	11.1
180'	CBI 13,790	4D	GAC3455	42.8	12	11.1
190'	CBI 14,360	4D	GAC3455	42.7	12	11.1
200'	CBI 14,930	4D	GAC3455	42.5	12	11.0
210'	CBI 15,760	4D	GAC3455	41.1	12	10.5
220'	CBI 16,290	4D	GAC3455	40.9	12	10.4
230'	CBI 16,850	4E	GAC3455	40.8	12	10.4

RI REV'D EIA-222-D TO EIA-222-E

7-24-82 RKB WMM 75

DATE: 9-1-87

REV: 9-21-87

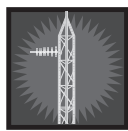
APP. ENG.: RMM

APP. SER.: AE

ENG. FILE: CB70502 RI

**R O H N**

GUYING DETAILS FOR 100' - 230' 65G TOWERS 70 MPH BASIC WIND SPEED (NO ICE)



**PARTS LIST FOR #65G GUYED TOWERS**  
**70 MPH Basic Wind Speed (No Ice)**

Tower Height	GA65GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	1/2TBE&J	5/8TBE&J	GAC34501
100'	2			400'			6		6	6	3	3	3
110'	2	325'		450'	6		6	6		6	3	3	3
120'	2	375'		475'	6		6	6		6	3	3	3
130'	2	400'		525'	6		6	6		6	3	3	3
140'	3	850'		550'	12		6	12		6	6	3	3
150'	3	900'		600'	12		6	12		6	6	3	3
160'	3	1000'		650'	12		6	12		6	6	3	3
170'	3	1025'		675'	12		6	12		6	6	3	3
180'	3	500'	600'	725'	6	6	6	6	6	6	6	3	3
190'	3	525'	625'	775'	6	6	6	6	6	6	6	3	3
200'	3	550'	650'	800'	6	6	6	6	6	6	6	3	3
210'	4	1200'	725'	850'	12	6	6	12	6	6	9	3	3
220'	4	1250'	750'	875'	12	6	6	12	6	6	9	3	3
230'	4	1300'	800'	925'	12	6	6	12	6	6	9	3	3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kit, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety 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.