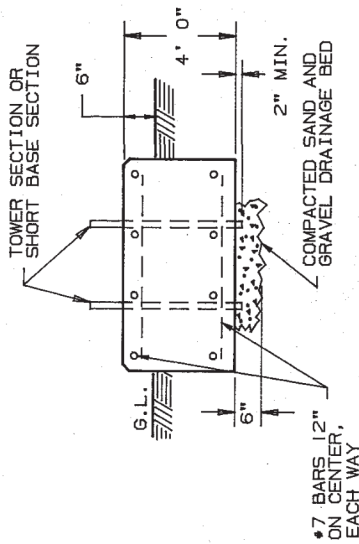


PLAN VIEW



ELEVATION VIEW

TOWER NO.	OVER-TURNING MOMENT FOOT POUNDS	MAX. ALLOW. SHEAR POUNDS	W	CONCRETE REQUIRED CU. YDS.
25G	6,800	700	4' 0"	2.4
45G	12,800	1,600	5' 3"	4.1
55G	22,900	1,600	6' 0"	5.3
65G	49,600	3,800	7' 9"	8.9

GENERAL NOTES

- FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES, AND TOLERANCES SEE DRAWING NUMBER BB41300.
- SEE DRAWING NUMBER AB71266 FOR MAXIMUM TOWER HEIGHTS AND ALLOWABLE ANTENNA AREAS.

No. ▲ Revision Description ▲ Date ▲ By

UNR-Rohn

Title
**FOUNDATION DETAILS
SELF-SUPPORTING 25, 45, 55 & 65 TOWERS**

Scale Unless otherwise specified, dimensions are given in inches.

Drawn by	DATE	Tolerances	Fractions	Angles
WDU	9/29/87	±	±	±
Checked by	DATE	Material	Finish	Weight
VBF	9/19/87			

Approved by Engineering
X K
Date 2/19/88
File Number

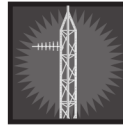
Approved by Production
Date
Drawing Number
B870725

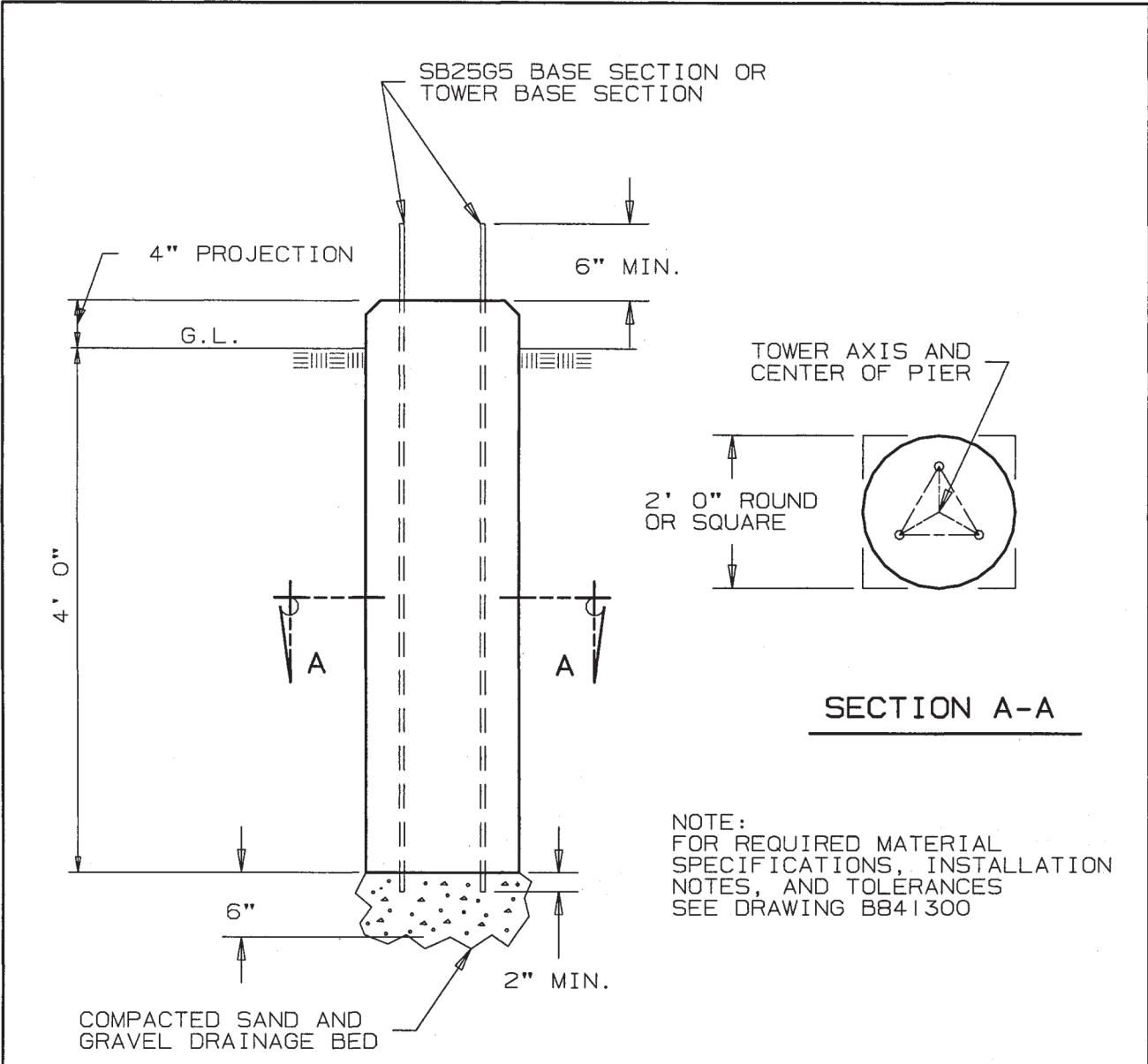
ROHN NO. 25G BRACKETED TOWERS - NO ICE

TOWER HEIGHT FT	BRACKET ELEVATION		ALLOWABLE ANTENNA AREAS (SQ.FT.)		
	UPPER (FT)	LOWER (FT)	70 MPH	80 MPH	90 MPH
40	30.0	15.0	15.3	11.3	7.7
50	36.0	18.0	14.6	10.0	6.8
60	46.0	23.0	14.0	8.9	5.9
70	56.0	28.0	13.5	8.3	5.5
80	66.0	33.0	13.1	7.7	5.0
90	66.0	33.0	6.8	4.9	---
100	66.0	33.0	1.7	---	---

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.
2. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.
3. DESIGNS ASSUME ONE 5/8" TRANSMISSION LINE ON EACH FACE, (TOTAL =3), SYMMETRICALLY PLACED.
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX.
5. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
6. ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6.
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
8. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
11. FOR FOUNDATION DETAILS SEE DRAWING AB71298.
12. ALL BRACKETS ARE TO BE ROHN P/N HBTUVR0 PER DRAWING DB650221.
13. THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED "BY OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 815 POUNDS.

BY: RAM DATE: 3/17/88 CHECKED: AED DATE: 3/17/88 DWG. NO. AB71302R1





NOTE:
FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES, AND TOLERANCES SEE DRAWING B841300

ELEVATION

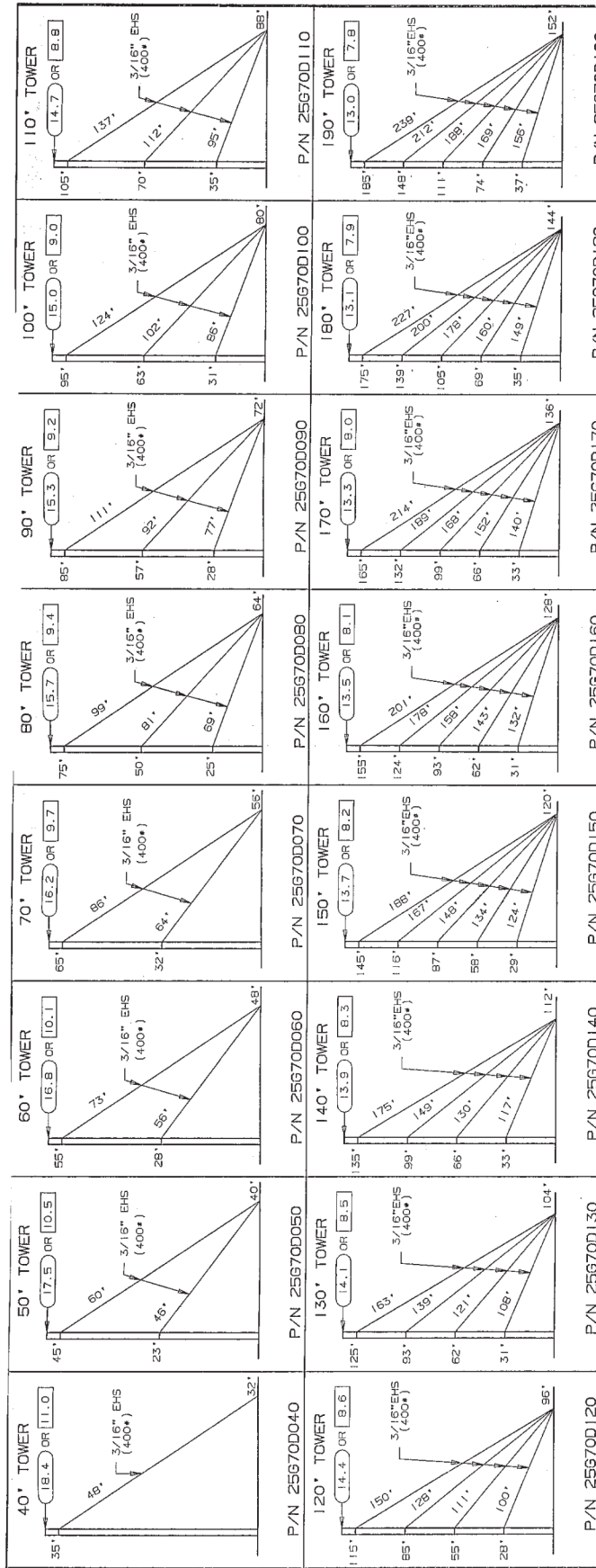
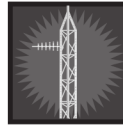
MAX. REACTIONS

MOMENT = 1,563 FOOT POUNDS
SHEAR = 211 POUNDS
VERTICAL = 600 POUNDS

VOLUME OF CONCRETE

SQUARE PIER = .7 CU. YDS.
ROUND PIER = .5 CU. YDS.

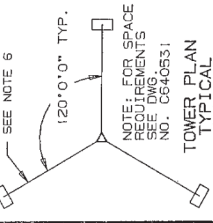
RI	REV. FND FOR NORMAL SOIL	2/27/96	CSR	WMN	XK
THIS DRAWING IS THE PROPERTY OF UNR-ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.					
DRAWN BY: WDU		DATE: 9/16/87		ROHN TITLE: DRILLED PIER FOUNDATION DETAIL FOR NORMAL SOIL PER ANSI/EIA-222-E FOR BRACKETED 25 TOWER	
CHECKED BY: WRF		DATE: 9/29/87			
APP'D. ENG: XK		DATE: 2/12/88			
APP'D. SALES: AE		DATE: 2/12/88			
FILE NUMBER:					
DRAWING NUMBER: A871298R1					



GENERAL NOTES

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSIA/A-222-E-1991 (NO. ICE).
- ALL DIMENSIONS ARE IN FEET AND INCHES (1" = 1/16" FT.). FOR ROUND MEMBER ANTENNAS, EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
- DESIGN ASSUMES ONE 5/8" DIA. LINE ON EACH TOWER FACE.
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH SLOPE.
- FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
- TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO GUY CHORD LENGTHS (FOR SAG AND CONNECTIONS FOR PINS) CUT LENGTHS. () INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 80 PERCENT OF YIELD STRENGTH.
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
- PERSONNEL AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
- TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- REVISIONS HAVE BEEN PROVIDED FOR TECHNICAL SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. 6660329 LATEST REVISION.

TOWER HT.	BASE PIER		INNER ANCHOR DATA		REAC. LBS.		SLOPE		
	REF. DWG.	NO.	REF. DWG.	NO.	HOR.	VERT.	HOR.	VERT.	
40'	C81062	C81	REF. DWG. 0620843	4A	47.7	10.9	12	710	780
50'	C81	2,300	4A	GAC303	41.8	12	10.7	1,140	1,020
60'	C81	2,530	4A	GAC303	42.1	12	10.9	1,190	1,070
70'	C81	2,660	4A	GAC303	41.9	12	10.8	1,250	1,120
80'	C81	3,350	4A	GAC303	39.3	12	9.8	1,700	1,400
90'	C81	3,650	4A	GAC303	39.4	12	9.8	1,780	1,460
100'	C81	3,820	4A	GAC303	39.4	12	9.8	1,850	1,530
110'	C81	4,540	4A	GAC305	37.5	12	9.2	2,480	1,900
120'	C81	4,750	4A	GAC305	37.7	12	9.3	2,550	1,990
130'	C81	4,910	4A	GAC305	37.5	12	9.2	2,680	2,060
140'	C81	5,740	4A	GAC305	36.7	12	9.0	3,240	2,410
150'	C81	5,920	4A	GAC305	36.6	12	9.0	3,360	2,500
160'	C81	5,150	4A	GAC305	36.8	12	9.0	3,490	2,610
170'	C81	5,340	4A	GAC305	36.7	12	9.0	3,630	2,700
180'	C81	5,520	4A	GAC305	36.7	12	9.0	3,730	2,780
190'	C81	5,520	4A	GAC305	36.7	12	9.0	3,730	2,780



Rev.	Date	By	Def.
R4	11-22-91	RWB	2/7
R3	6-9-92	RWB	7/5
R2	1-27-92	RWB	7/5
R1	3/7/91	CSR	7/5

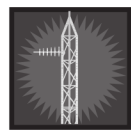
Revised Description: Date: Rev. By: Ckd. By: App. By:

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Drawn: WRF 9/24/87
 Checked: RAM 10/2/87
 App. Engr.: AE 12/12/88

TITLE: GUYING DETAILS FOR 40'-190' 25G TOWERS 70 MPH BASIC WIND SPEED (NO ICE)

DRAWING NO.: C870484 R4



Parts List P-622
(Replaces P-558)

January 1, 1996

Parts List for #25G Guyed Towers
70 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	5	5	5
G.W. 3/16" EHS	175'	350'	425'	500'	800'	900'	1000'	1100'	1575'	1700'	1825'	2425'	2650'	2825'	2925'	3175'
BG2142	6	12	12	12	18	18	18	18	24	24	24	30	30	30	30	30
5/16" THH	6	12	12	12	18	18	18	18	24	24	24	30	30	30	30	30
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9	9	12	12	12	15	15	15	15	15
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GAC303	*	3	3	3	3	3	3	3								
GAC305									3	3	3	3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028 Clamp	3	6	6	6	9	9	9	9	12	12	12	15	15	15	15	15
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

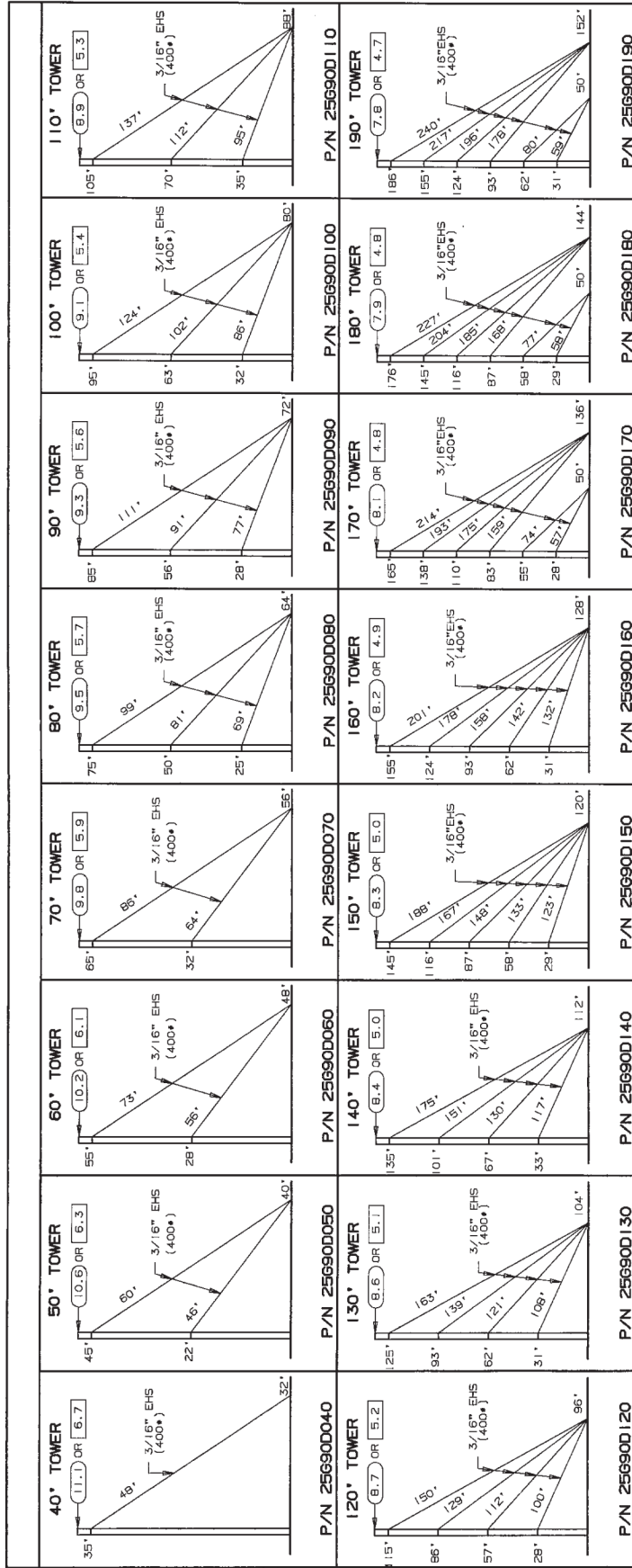
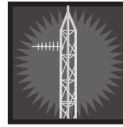
* **Note:** For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

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.



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.
- GUY TENSIONING: TOWER MEMBER ANTENNAS MUST NOT EXCEED THE TENSIONING LIMITS SHOWN FOR THE MEMBER. ANTENNAS MUST BE INSTALLED AS SHOWN FOR THE MEMBER. ANTENNAS 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.

ANCHOR ROD SLOPE

ROD ANGLE IN DEGREES

GROUND LINE

FOR GUY CORN. DETAILS SEE DWG. NO. B860311

SLOPE HOR. VERT.

SLOPE HOR. VERT.

TOWER PLAN TYPICAL

NOTE: FOR SPACE REQUIREMENTS SEE DWG. NO. C840531

TOWER HT.	BASE PIER			INNER ANCHOR DATA			OUTER ANCHOR DATA										
	NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	
40'	CB1	2,050	4A	GAC303	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	12	9.7	2,110	1,710								
90'	CB1	4,050	4A	GAC303	38.9	12	9.7	2,300	1,860								
100'	CB1	4,290	4A	GAC303	39	12	9.7	2,440	1,970								
110'	CB1	4,560	4A	GAC303	38.1	12	9.7	2,580	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	6,830	4A	GAC4500	36.5	12	9.0	4,270	3,160								
160'	CB1	7,110	4A	GAC4500	36.5	12	9.0	4,460	3,310								
170'	CB1	9,140	4A	GAC303	38.7	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								

GENERAL NOTES

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 DESIGN. (FURNISHES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES FAHRENHEIT)

10. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.

11. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED TEMPORARY STEEL GUYS WHEN REQUIRED DURING ERECTION OR DISMANTLING. MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.

12. INSTALL WARNING PLATE (P/N AOWS) IN A HIGHLY VISIBLE LOCATION.

13. ALL NATIONAL INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.

14. EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B860324 LATEST REVISION.

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

9-10-91 RKB KIZ TS

No. Revision Description

Date Rev. By Ckd. By App'd. By

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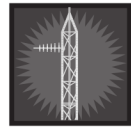
Scale: NONE By Date Title: R O H N

Drawn: GFM 9-1-87 GUYING DETAILS FOR 40' - 190' TOWERS

Checked: WRF 9-24-87 25G TOWERS

App. - Eng.: RAM 10-1-87 90 MPH BASIC WIND SPEED (NO ICE)

App. - Designer: AE 2-12-88 ENG. FILE: C870488 RI



Parts List P-623
(Replaces P-574)

January 1, 1996

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

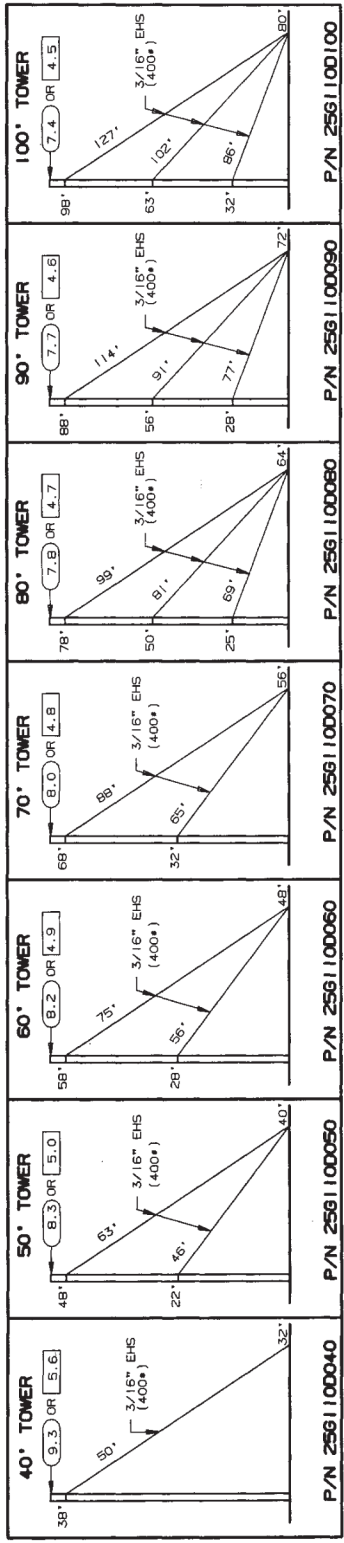
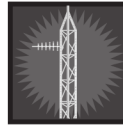
* **Note:** For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

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.

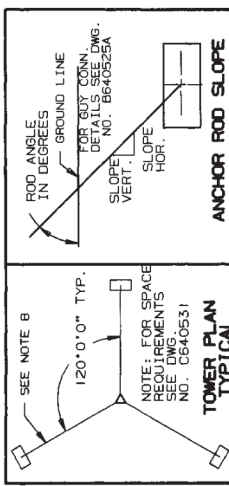
Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger-Watch for Wires labels along with other printed safety information.

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.



GENERAL NOTES

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE) (50, FT.) FOR ROUND MEMBER ANTENNAS. EQUITVALENT FLAT-PLATE ANTENNA AREAS (50, FT.) FOR FLAT MEMBER ANTENNAS. ALLOWABLE PROJ. AREA (50, FT.) FOR FLAT MEMBER ANTENNAS.
2. EQUITVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA-RS-222-C, ANTENNA AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER FACE.
3. DESIGN ASSUME ONE 5/8" DIA. LINES ON EACH TOWER FACE.
4. GROUND RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GUY.
5. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
6. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 5 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT DEGREES FAHRENHEIT.
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELEC. PERSONNEL.
8. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL. STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B680324 LATEST REVISION.



TOWER HT.	BASE PIER		ANCHOR ROD SLOPE		ANCHOR DATA				
	NO.	REAC. LBS.	ROD NO.	ROD ANGLE	SLOPE HOR. VERT.	REAC. LBS. HOR. VERT.			
40'	CB1	2,650	4A	GAR30	49.8	10.1	12	1,030	1,210
50'	CB1	3,120	4A	GAC303	41.3	12	10.6	1,680	1,480
60'	CB1	3,490	4A	GAC303	41.6	12	10.7	1,830	1,630
70'	CB1	3,890	4A	GAC303	41.2	12	10.5	2,050	1,800
80'	CB1	4,650	4A	GAC303	39.2	12	9.8	2,690	2,190
90'	CB1	5,040	4A	GAC303	39.0	12	9.7	2,960	2,400
100'	CB1	5,400	4A	GAC303	39.1	12	9.8	3,150	2,560

REV	NO.	DATE	DESCRIPTION
R3	CHANGED REACTIONS	10-4-98	BRT / JPK / AA
R2	REV NOTE NO. 3	8-21-98	RKB / WOU / JS
R1	EIA-222-E-1991	12-9-91	RKB / WOU / KTL / JS

ROHN

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Scale: NONE By: Date: Title: **GUYING DETAILS FOR 40'-100' 256 TOWERS 110 MPH BASIC WIND SPEED (NO ICE)**

Drawn: RKB 12-27-90
 Checked: KYG 1-28-91
 App. Eng.: JS 2-21-91
 App. Specs: AE 2-21-91

ENG. FILE: **C902041 R3**



Parts List P-624
(Replaces P-553)

January 1, 1996

Parts List for #25G Guyed Towers

110 MPH Basic Wind Speed (No Ice)

Part Number	Tower Height						
	40'	50'	60'	70'	80'	90'	100'
25G	3	4	5	6	7	8	9
25AG2	1	1	1	1	1	1	1
BPG25G w/3/4 x 12PP	1	1	1	1	1	1	1
GA25GD	1	2	2	2	3	3	3
G.W. 3/16" EHS	175'	350'	425'	500'	825'	950'	1025'
BG2142	6	12	12	12	18	18	18
5/16" THH	6	12	12	12	18	18	18
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9
TBSAFETY	3	3	3	3	3	3	3
GAC303	*	3	3	3	3	3	3
AGKE	1	1	1	1	1	1	1
340028 Clamp	3	6	6	6	9	9	9
BGKE	2	2	2	2	2	2	2

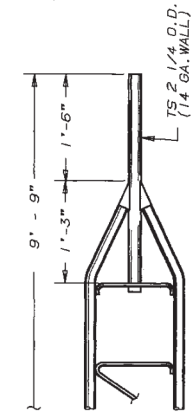
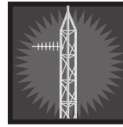
* **Note:** For 40' tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

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.)

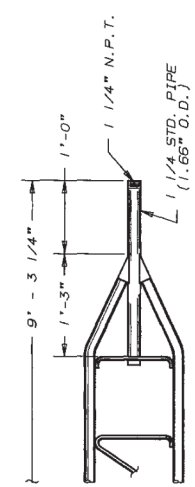
Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

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.

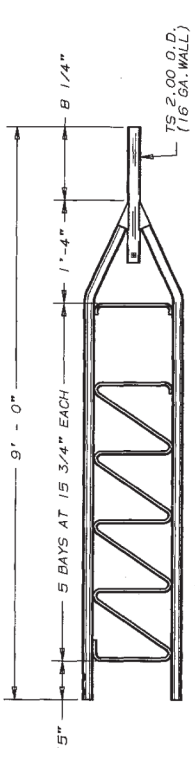
All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.



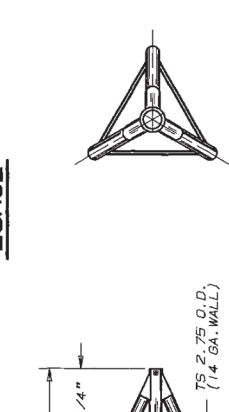
25AG1



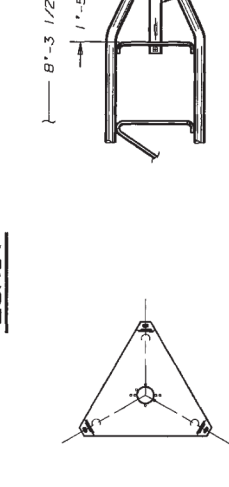
25AG2



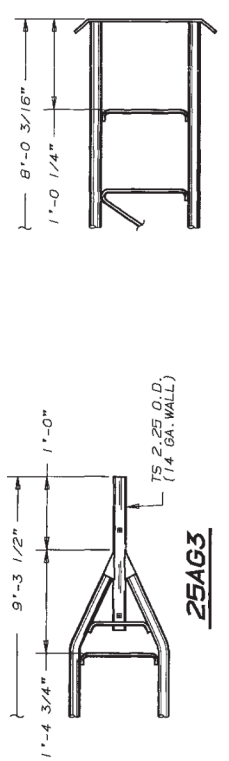
25AG3



25AG4

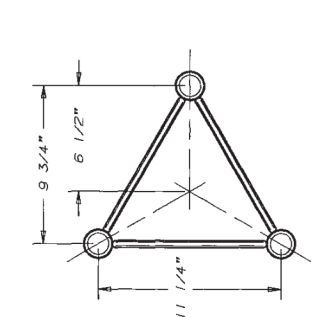


25AG5

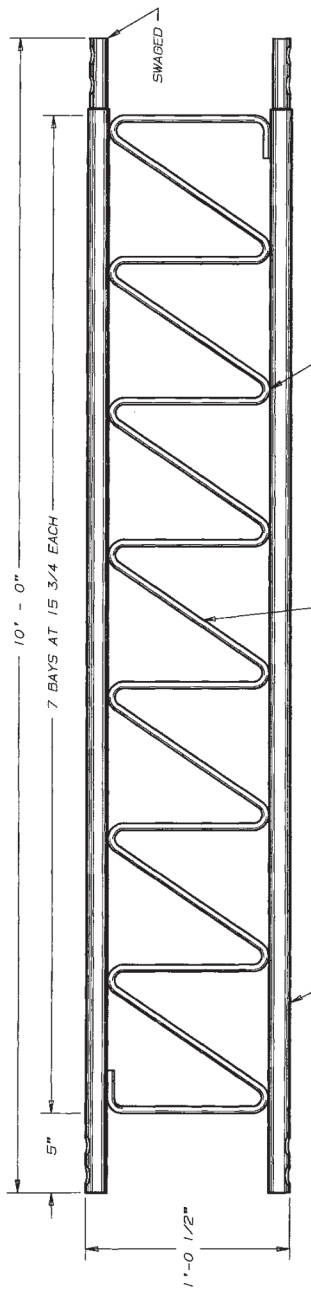


25AG6

TYPICAL PLAN VIEW
(FOR ALL SECTIONS EXCEPT 25AG4)



SAE GRADE 5 BOLT ASSY'S REQUIRED
(3) 1/4" DIA. X 1 1/2" LG. (NF BOLTS)
(3) 5/16" DIA. X 1 1/2" LG. (NF BOLTS)



P/N 25G SECTION

SEC. >>>	ITEM	25G TOWER SECTION PROPERTIES	BRACES	SECTION
	SIZE	TS 1.25 O.D. (16 GA. WALL)	BAR 5/16 DIA.	N/A
	Fy	50.0	36.0	N/A
	A	0.2420	0.0770	0.726
	I	0.0692	0.0030	2.15
	S	0.0426	0.00047	15.3
	r	0.4196	0.0781	4.59
	L	15.7500	18.7	VARIES
	K	1.0	0.70	1.0
	KL/r	37.5	167.6	VARIES
	C	8.43	0.55	N/A
	T	8.28	N/A	N/A
	M	N/A	0.261	6.72
	W	0.82	14.0	4.0
	Ws	26.0		40.0

NOMENCLATURE

- A = CROSS SECTIONAL AREA (SQ. INCHES)
- C = COMPRESSION CAPACITY (KIPS)
- I = MOMENT OF INERTIA ABOUT CENTROIDAL AXIS (INCHES⁴)
- Fy = MINIMUM YIELD STRENGTH (KSI)
- K = EFFECTIVE LENGTH FACTOR (DIMENSIONLESS)
- L = UNBRACED LENGTH (INCHES)
- M = MOMENT CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- N/A = NOT APPLICABLE
- S = ELASTIC SECTION MODULUS (INCHES³)
- T = TENSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
- r = RADIUS OF GYRATION (INCHES)
- W = WEIGHT PER FOOT (POUNDS)
- Ws = WEIGHT PER SECTION (POUNDS)

No.	Revision Description	Date	By	Checked
69	REV'D ETA-222-D-1986 TO ETA-222-E-1991	8/19/91	RWB	TS
68	REDRAWN AND REVISED	8/21/90	CSB	TS
67	REDRAWN AND REVISED SPEC.	2/16/88	GPW	RAM

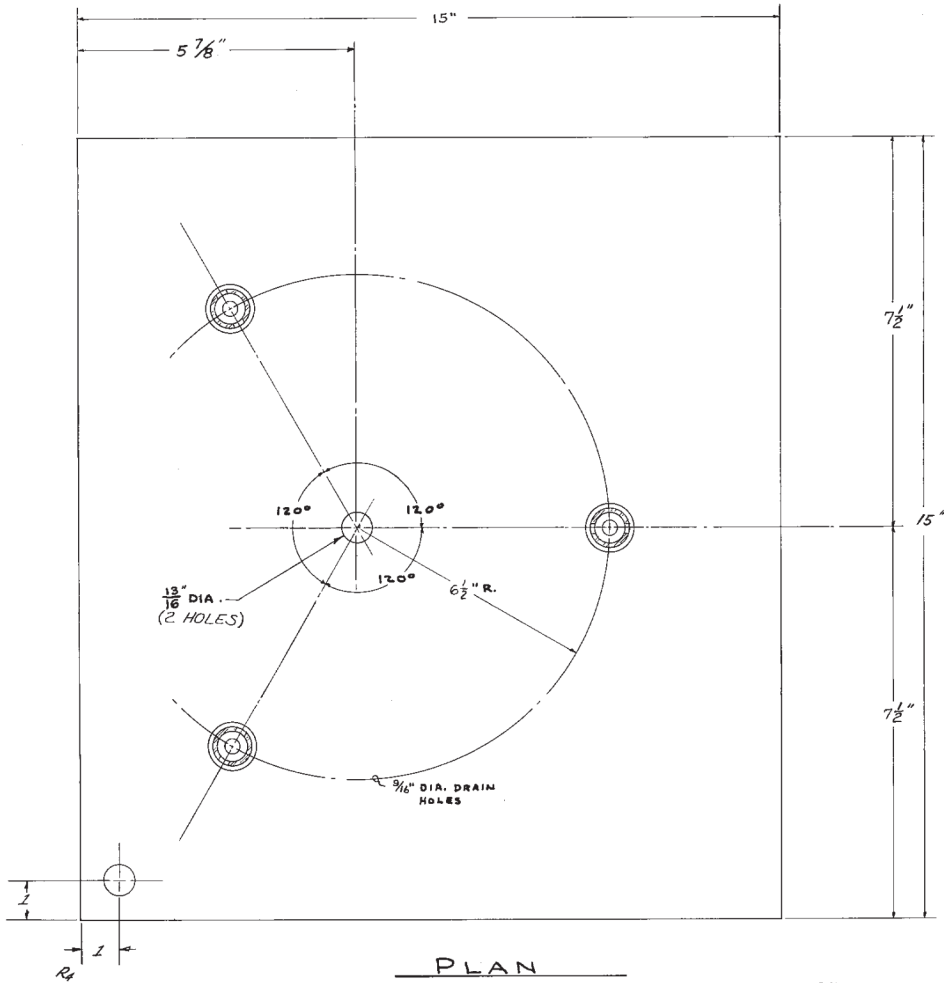
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Series	NAME	By	Date	Title
Drawn:	GPW	WOU	2/16/88	
Checked:	WOU	RAM	2/24/88	
App. Eng.:	RAM	IAE	2/25/88	
App. Series:	IAE			

25G SECTION ASSEMBLY

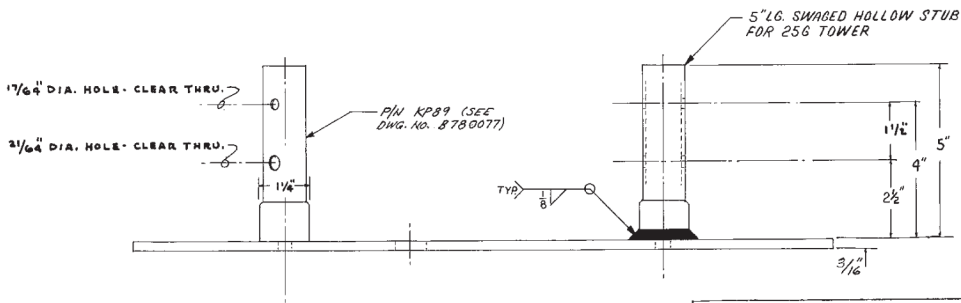
NOTE: CAPACITIES SHOWN ARE BASED ON ANSI/ETA-222-E-1991.

DRAWING NO.: C630625 R9



PLAN

NOTE: DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.



ELEVATION

TEMPORARY STEEL GUYING IS NECESSARY DURING INSTALLATION AND DISMANTLING.

BASE PLATE FOR CONCRETE PIER (BPC 25G)

NOTE:
FOR USE WITH GUYED AND BRACKETED TOWERS ONLY

R1 REVISED 3-22-73 D.M.
R2 REVISED 6-5-64 O.H.

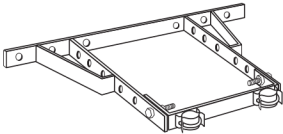
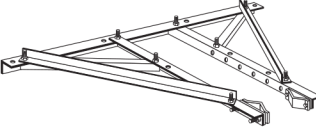
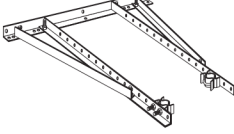
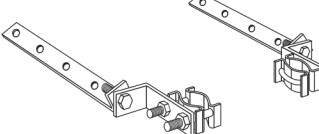
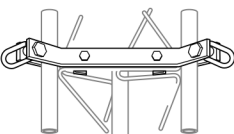
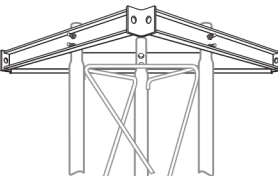
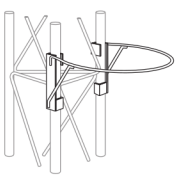
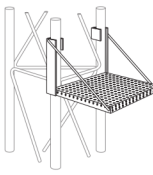
		DRAWN c/k		CUSTOMER	TITLE
R7	ADDED TEMP. GUYING NOTE	11-8-86	AKB	ROHN MFG. PEORIA, ILLINOIS	BASE PLATE FOR MODEL 25 TOWER DRAWING NO. C 610831R9
R6	DELETE EXCESS HOLES	8-31-79	WJK		
R5	CHANGED STUB FROM 16 GA. TO 14 GA. ADD 2M	7-26-78	AED		
R4	ADDED NOTE	7-6-76	CH		
R3	REVISED STUB & ADDED WELD SYMBOL	1-9-75	RDB		
R2	ADDED NOTE & REMOVED SCALE	11-26-73	JKR		
R0	REVISE R SIZE	7-17-92	WJH		
RB1	REV. TEMP. GUYING NOTE	12-6-82	FHT		

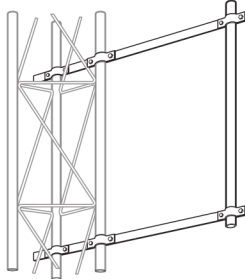
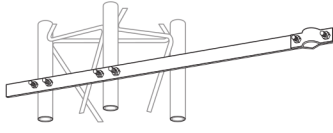
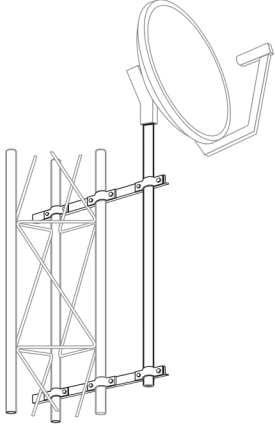
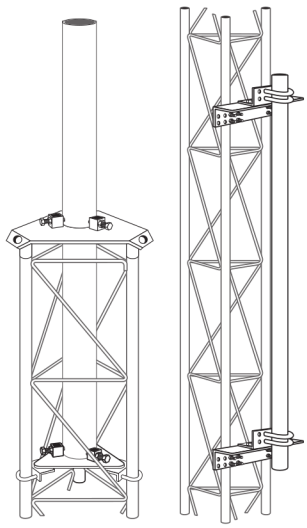


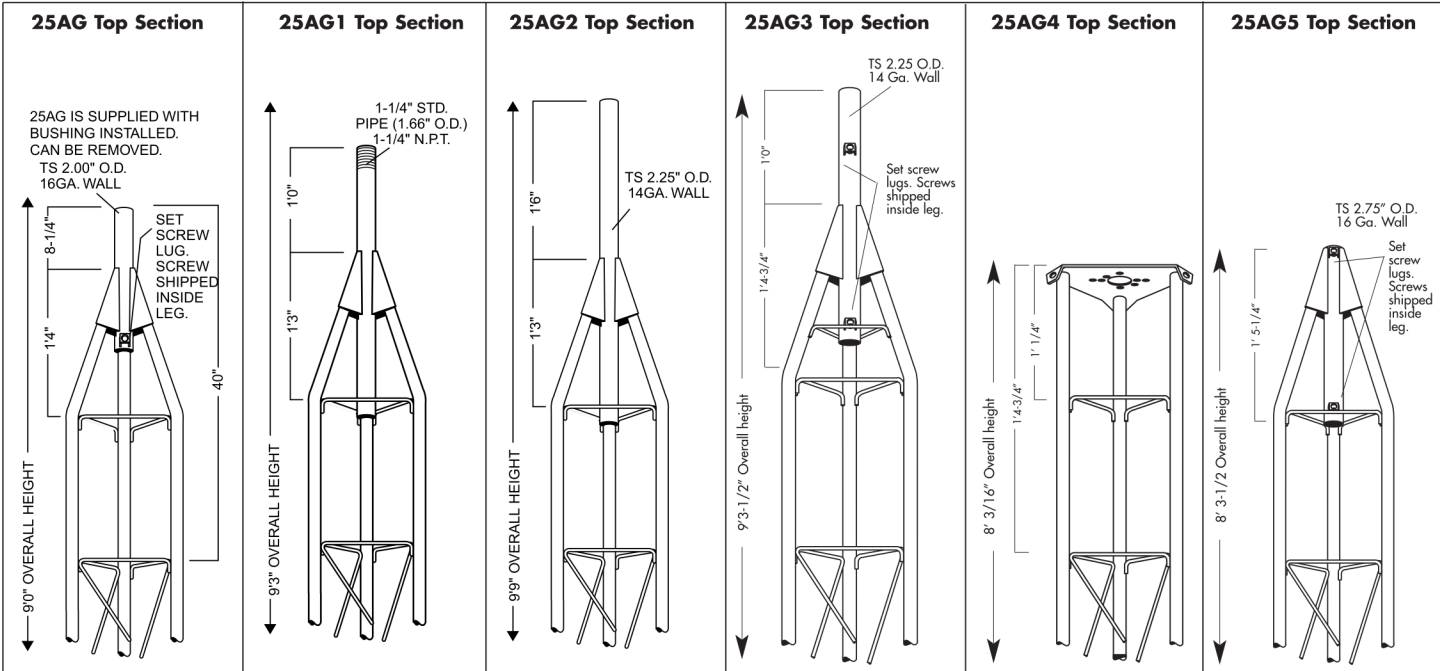
	<p>3/4" Short Base SB25G Base section for embedment in concrete.</p> <p>5' Short Base (not shown) SB25G5 Base section for embedment in concrete.</p> <p>3/4" Hinged Short Base SBH25G* Base section for embedment in concrete. Hinged connection to bottom</p>		<p>Concrete Base Plate BPC25G* For use with pier pin embedded in concrete.</p> <p>Pier Pin 3/4X12PP Must be ordered separately.</p>
	<p>(Left) Standard 25G Section 25G Standard 10' section with seven bays of bracing and swaged, double-bolted connections.</p> <p>7' 25G Section 25G7 (not shown) Same design and materials as 10' section, but only 7' long to allow UPS shipping.</p> <p>(Left Center) 10' Insulator Section 25RG*</p> <p>(Right Center) Anti-Climb Section 25ACL Used as bottom section to help prevent unauthorized climbers.</p> <p>Anti-Climb Panels 25ACL3 (not shown) Three anti-climb panels to bolt to existing standard tower section.</p> <p>(Right) Tapered Base 25TGA* Can be used with RACAL DECCA A4197L base insulator or with 3/4X12PP.</p>		<p>Single Drive-In Base SDB25G* To be driven directly into ground.</p>
	<p>Base Plate BP25G For use with drive rods. Tower must be guyed or bracketed.</p> <p>2' Drive Rods DR25G* Set of 3 drive rods for use with BP25G base plate.</p> <p>Drive Tool DT25 For DR25G/BP25G installation. Slips over top of drive rod to protect from damage during installation.</p>		<p>Peak Roof Mount PR25G* Adjustable hinged feet conform to nearly any roof pitch. Bolts to roof surface.</p>
	<p>Flat Roof Mount FR25G* Bolts directly to flat roof surface</p>		<p>Hinged Base Plate BPH25G* Bolts to concrete. Hinged to allow tower to be rotated up from base during installation.</p> <p>Base Bolts 1/2X12BB Must be ordered separately.</p>
	<p>90 Degree Joints 2590MM 2590FM 2590FF Unique 90 degree joints allows the connection of 25G sections for a variety of purposes. Popular in theatrical staging and overhead lighting. Joint styles include (2590MM) both ends swaged, (2590FF) both ends open, and (2590FM) a combination one end swaged the other open. Joints are not drilled where they slip fit to 25G sections. Can be filed drilled or custom connected to meet particular needs.</p>		

* Towers mounted on these bases must be bracketed or guyed at all times. Temporary steel guying may also be necessary during installation and dismantling.

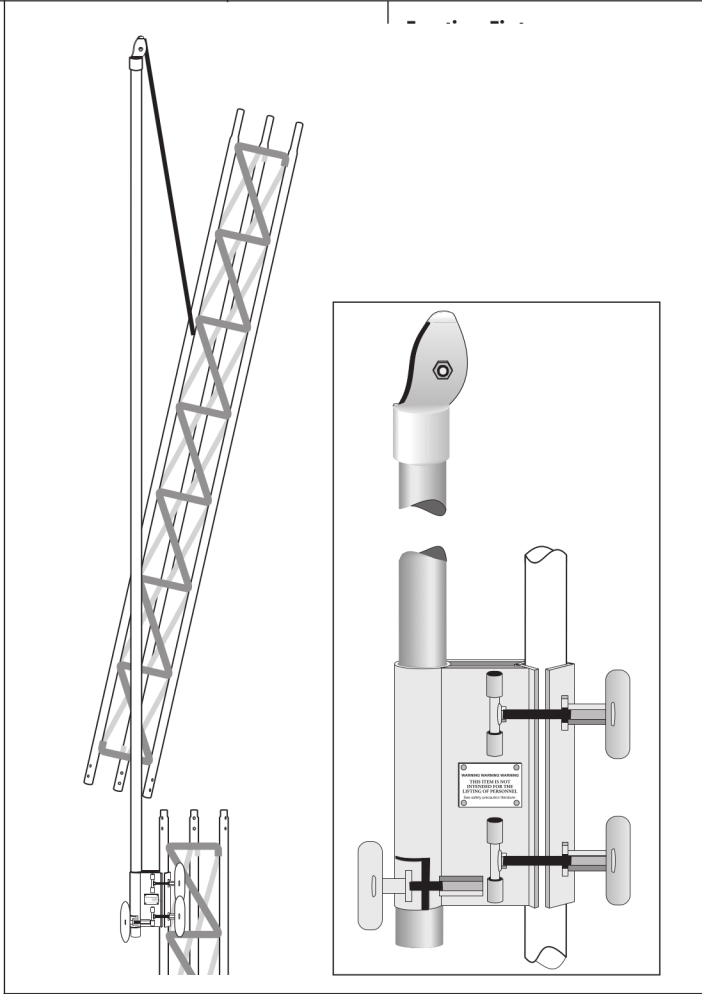


	<p>Adjustable House Bracket HB25AG0-15" HB25BG0-24" (not shown) HB25CG0-36" (not shown)</p>
	<p>HeavyDuty Universal House Bracket HBUTVRO Adjustable to position tower from 18" to 36" from wall.</p>
	<p>Universal House Bracket HBU Adjustable to position tower from 6" to 30" from wall.</p>
	<p>Universal Eave Bracket EB2525G Hinged connection allows tower leg clampsto remainperpendicular to ground while bolt-down supports rotate to lay flat along pitched roof or eave.</p>
	<p>Guy Bracket GA25GD Mounts to any tower at any horizontal brace. Torque Bars TB25D (not shown) Optional, for use with GA25GD</p>
	<p>Torque Arm Stabilizer Assembly TA25 Anti-twist device located i hte area of antennas. Provides six-way guying. Bolts to tower at any section joint. Attached with joint bolts. Must be installed as sections are joined together.</p>
	<p>Safety Ring SR245 Snaps into place at any level. No bolts required.</p>
	<p>Work Platform WP25G Snaps into place at any level. No bolts required.</p>

	<p>Side Arm Bracket SA253UA Provides3' stand-off from tower. Distance from top to bottom bracket adjustable depending depending on length of antenna mounting tube. Mounting tube provide is 3' long, 2-1/4" O.D.</p>
	<p>Side Arm Mount UHF25G For UHF & FM antennas. Fastens with saddle clamps (shown in SA253UA drawing above).</p>
	<p>DBS Antenna Support KY2068A16 1.66" O.D. mounting tube KY2068A15 1.5" O.D. mounting tube KY2068A2 2" STD/2-3/8" O.D. mounting pipe Above absemblies are hot dip galvanized. Antenna Support Assembly includes support brackets, clamps, and mounting pipe. Below assemblies are pregalvanized. DDM166 1.66" O.D. mounting pipe DDM150 1.5" O.D. ,ounting pipe DDM238 2" STD/2-3/8" O.D. mounitng pipe</p>
	<p>(Left) Top Dish Mount 25TDMKD Top plate includes built in guy lugs. Bolts to swaged top of standard section. Lower plate connects with U-bolts. Set screws secure mounting pipe.</p> <p>(See drawing C850314R1) for most sizes and assembly.)</p> <p>(Right) Face Dish Mount DM25G2 Mounting pipe included is 5' long, 2" STD.</p>



	<p>Bearing Plate BPL25G Long legs provide extra clearance for installation of equipment. Bolts to top of standard section. Drilled to accept TB3 or TB4 thrust bearing.</p>
	<p>Assembly Plate/Top Beacon Plate APL25G For Mounting red beacon. Bolts to top of standard section.</p>
	<p>Thrust Bearing TB3 Supports up to a 2" O.D. mast. TB4 (not shown) Supports up to a 3" O.D. mast.</p>
	<p>Rotor Post (Left) RP25G (Right) RP25G CM Special Rotor Post</p>
	<p>Accessory Shelf AS25G For mounting many popular rotors. Field drilling may be necessary for some rotors.</p>
	<p>Bearing/Accessory Shelf BA25G Drilling to accept thrust bearing on top plate. Accessory shelf drilled for mounting many popular rotors.</p>
	<p>Tower Bushing TB50 For use in 25AG and ST25AG Top sections 1-1/4" I.D. x 2" O.D. TB75 Tower Bushing 1-1/2" I.D. x 2" O.D.</p>



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ZONE (REV)	DESCRIPTION	DATE	APPROVED

25AG2 TOP SECTION SHOWN. VARIOUS TOP SECTIONS AVAILABLE DEPENDING ON APPLICATION.

NOTES:

- 1.) MOUNT SHOULD ONLY BE USED ON A FLAT SUPPORTING SURFACE.
- 2.) ALL ANTENNA INSTALLATIONS SHOULD BE GROUNDED BY THE INSTALLER TO MEET ALL APPLICABLE CODES.
- 3.) TO INSURE SAFETY, NO INSTALLATION SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
- 4.) INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.
- 5.) IT IS THE INSTALLER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY THIS MOUNT AND ANTENNA. *
- 6.) LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE ARCHITECT OR STRUCTURAL ENGINEERING APPROVAL PRIOR TO INSTALLATION.
- 7.) IT IS THE INSTALLERS RESPONSIBILITY TO VERIFY THAT CONNECTION BOLTS AND ROOF / SUPPORTING STRUCTURE IS CAPABLE OF SUPPORTING ALL LOADS CREATED BY ANTENNA, TOWER AND BASE. *
- 8.) REFER TO DWG A871266 FOR MAXIMUM TOWER HEIGHTS AND ALLOWABLE ANTENNA AREAS.

* MINIMUM FASTENING SYSTEM REQUIREMENTS PER BOLT.	
SHEAR	1000 lb. MIN
TENSION	4000 lb. MIN

DESCRIPTION 25G SELF SUPPORTING BASE PLATE	
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ALL DIMENSIONS ARE GIVEN IN INCHES. TOLERANCES ARE AS GIVEN BELOW UNLESS NOTED OTHERWISE. DECIMAL: +0.063" ANGLES: ±2°	
RAW MATERIAL PART NO.	DATE 7/29/99
FINISH HDG	CHECKED BY DLB
WEIGHT	APPROVED
SCALE 0.15	DWG NO. 4372
SIZE B	DRAWN BY DJL
ILLUSTRATION	REV
8990924	0