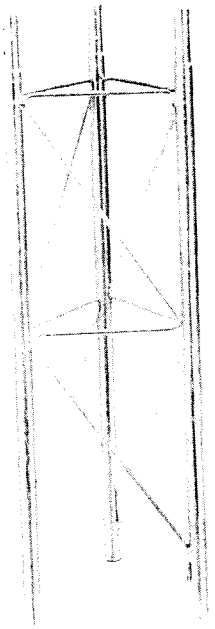
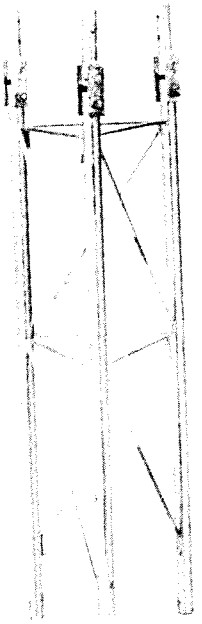
BASES

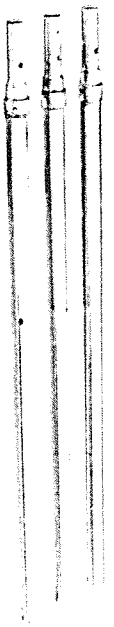


SB25G*
3'4" SHORT BASE
section for concrete
SB25G5*
5' SHORT BASE (not shown)
section for concrete

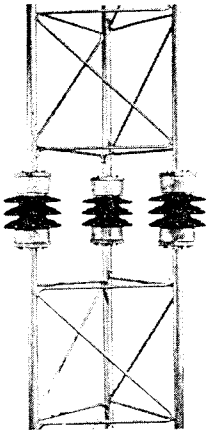


SBH25G*
3'4" HINGED SHORT BASE
section for concrete

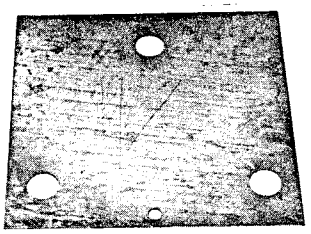
DT25
DRIVE TOOL
for DR25G



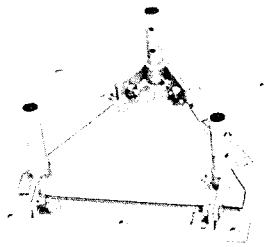
DR25G*
2' DRIVE RODS
set of 3



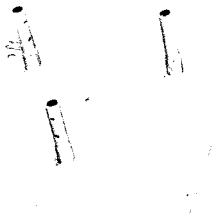
25RG*
10' INSULATOR SECTION



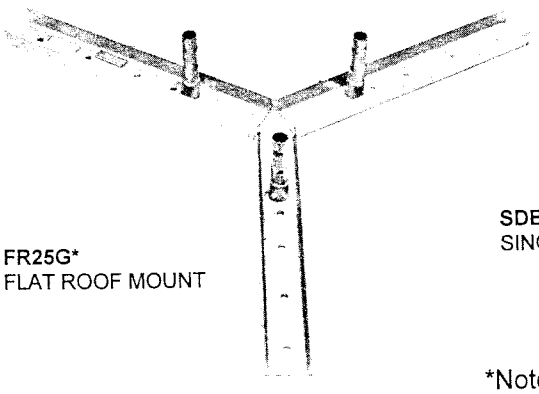
BP25G*
BASE PLATE
for use with drive rods



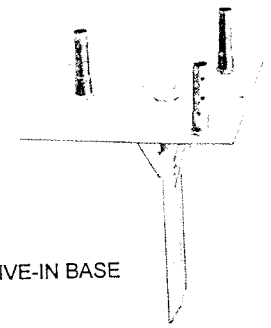
BPH25G*
HINGED BASE PLATE
for concrete



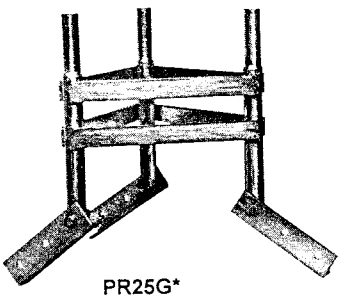
BPC25G*
CONCRETE BASE PLATE



FR25G*
FLAT ROOF MOUNT



SDB25G*
SINGLE DRIVE-IN BASE

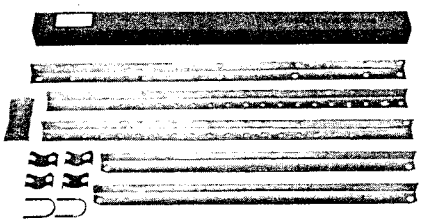


PR25G*
PEAK ROOF MOUNT

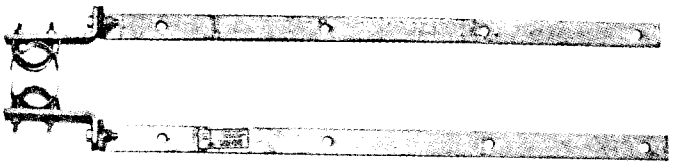
*Note: Towers mounted on these bases must be bracketed or guyed at all times.
Temporary steel guying may also be necessary during installation or dismantling

ROHN®

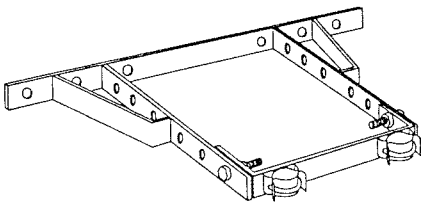
BRACKETS



HBU 6"-30"
HBUTVRO 18"-36" (NOT SHOWN)
UNIVERSAL HOUSE BRACKET



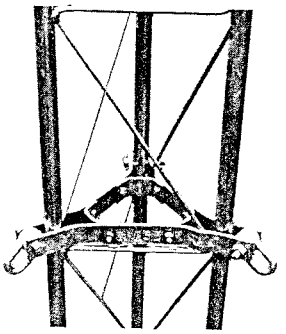
EB2525G
UNIVERSAL EAVE BRACKET



HB25AG 0-15"

HB25BG 0-24" (not shown)

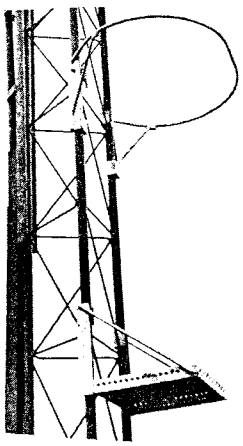
HB25CG 0-36" (not shown)
ADJUSTABLE HOUSE BRACKET



GA25GD
GUY BRACKET

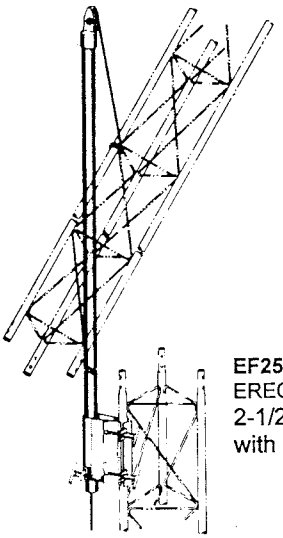
TB25D
TORQUE BARS (not shown)
optional, for use with GA25GD

SAFETY



SR245
SAFETY RING

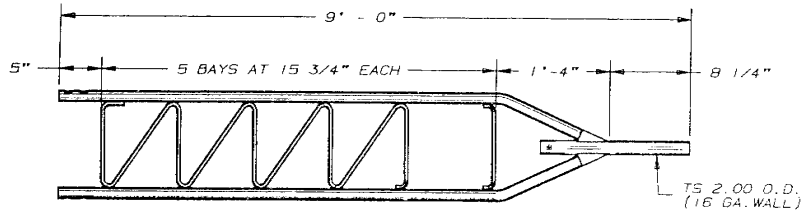
WP25G
WORK PLATFORM



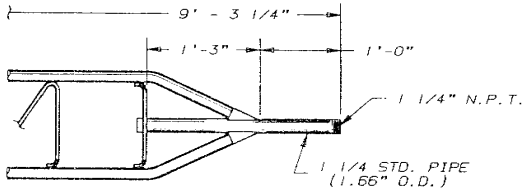
EF2545
ERECTION FIXTURE
2-1/2" sheave
with 3/8" I.D. groove

25ACL
ANTI-CLIMB
SECTION

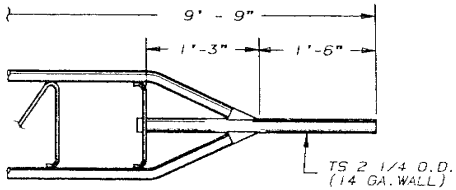
NOTE: Erection fixtures should only be used to raise one section, or any part of a section, at one time. They are not intended for the lifting of individuals.



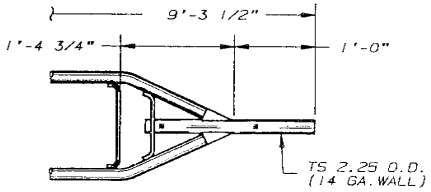
25AG



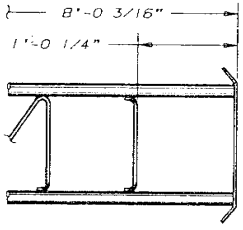
25AG1



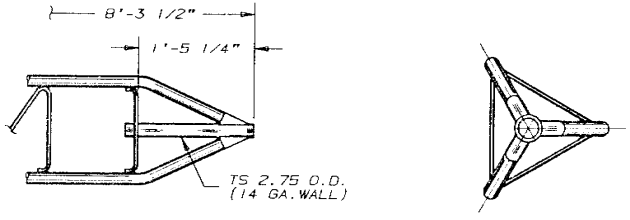
25AG2



25AG3

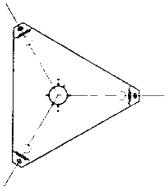


25AG4

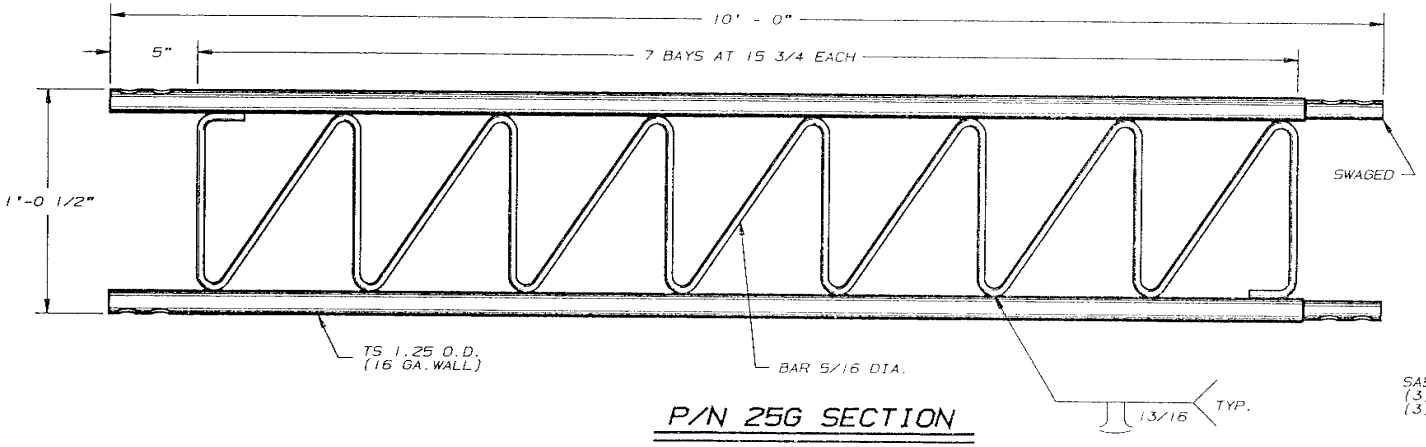


25AG5

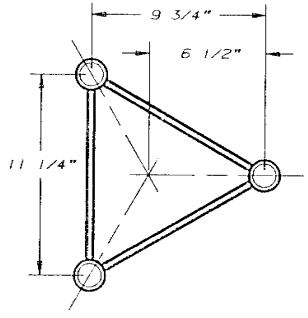
NOTE: SPECIFICATIONS OF TOP SECTIONS ARE THE SAME AS SECTION NO. 25G EXCEPT AS NOTED ABOVE.



TYPICAL PLAN VIEW
(FOR ALL SECTIONS EXCEPT 25AG4)



P/N 25G SECTION



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)

SEC. >>	25G TOWER SECTION PROPERTIES		
ITEM	LEGS	BRACES	SECTION
SIZE	TS 1.25 ODX.065 WALL	BAR 5/16 DIA.	N/A
Fy	50.0	36.0	N/A
A	0.2420	0.0770	0.726
S	0.0682	0.0030	2.15
I	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	N/A	6.72
W	0.82	0.261	4.0
Ws	26.0	14.0	40.0

NOMENCLATURE

A = CROSS SECTIONAL AREA (SQUARE INCHES)
C = COMPRESSION CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (KIPS)
I = MOMENT OF INERTIA ABOUT CENTROIDAL AXIS (INCHES**4)
Fy = MINIMUM YIELD STRENGTH (KSI)
K = EFFECTIVE LENGTH FACTOR (DIMENSIONLESS)
L = UNBRACED LENGTH (INCHES)
M = MOMENT CAPACITY WITH 1/3 INCREASE IN ALLOWABLE STRESS (FT.-KIPS).
N/A= NOT APPLICABLE
S = ELASTIC SECTION MODULUS (INCHES**3)
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)

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

No.	Revision Description	Date	Rev By	Ckd By	Appd By
R9	REV'D EIA-222-D-1986 TO EIA-222-E-1991	9-10-91	RKB		
R8	REDRAWN AND REVISED	6/13/91	CSR	RKB	TS
R7	REDRAWN AND REVISED SPEC.	2/16/88	GPW	WDU	RAM

ROHN

Scale: NONE	By	Date
Drawn:	GPW	2/16/88
Checked:	WDU	2/24/88
App. Eng.:	RAM	2/25/88
App. Sales:	AE	2/25/88

Title: 25G SECTION ASSEMBLY

DRAWING NO.: C630625 R9

SHEET D-2743
(Replaces D-2710)

25G Tower

May 1, 1993

	Part No.	Description	WT.
	25G	10' tower section	40
	25G7	7' tower section	28
	20BG	3' top section for use as home TV top section	8-1/2
	25AG	9' top section for use as home TV top section	31
✣	ST25AG	5' short top section for use as home TV top section	18
✣	25AG1	Top section for use with communication antenna. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12" above apex of side rails.	31
	25AG2	Top section for use with communication antenna. Mast support tube is 2-1/4" O.D. tubing, 36" total length, extending 18" above apex of side rails.	31
	25AG3	Top section for use with communication antenna. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit snugly inside support tube.	31
	25AG4	8' top section for use with communication antenna. Upper end terminates in flat, triangular plate with 2-1/4" dia. hole in center. Drilled to accept TB3 or TB4 thrust bearing.	31
✣	25AG5	Top section for use with communication antenna. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing, 18" total length.	31
★	25TG	10' tapered base section (sits on a pier pin - order pier pin separately)	60
★	25TGIA	10' tapered base section (for use with A4197L base insulator)	75
★	25RG	10' insulator section for 25G tower (includes 3 #10470 post insulators)	74
	25ACL	10' anti-climb section (for #25 and #20 towers)	115
	25ACL3	3 anti-climb metal sheets for attaching to tower section	65
	25JBK	Joint bolt kit	1/2
	APL25G	Beacon plate	14
	SB25G	3'4" short base section for use in concrete	10
★	SBH25G	3'4" hinged short base section for use in concrete	14
	SB25G5	5' short base section for use in concrete	19
★	SDB25G	Single drive base for use on top of ground	20
★	BPC25G	Concrete base plate (sits on a pier pin - order pier pin separately)	13
★	3/4X12PP	Pier pin (for BPC25G or 25TG - one required)	1
★	BPH25G	Hinged base plate for concrete	21
★	1/2X12BB	Concrete base bolt with double nuts (for BPH25G - four required)	1/2
★	FR25G	Flat roof mount	24
★	PR25G	Peak roof mount	14
★	BP25G	Base plate (for use with drive rods)	7
★	DR25G	2' drive rods (set of 3)	6
	DT25	Drive tool	1
	RP25G	Rotor post	3
	RP25GCM	Rotor post	2
	AS25G	Accessory shelf. Triangular plate for mounting most popular Ham rotors. Can be redrilled if needed.	4
	GA25GD	Guy bracket assembly	11
	TB25D	Torque bars (for use with GA25GD guy bracket)(requires 3 shackles, 3/8" maximum size - order separately)	6
	HB25AG	Adjustable house bracket (0 to 15")	8
	HB25BG	Adjustable house bracket (0 to 24")	11
	HB25CG	Adjustable house bracket (0 to 36")	17
	HBU	Universal house bracket (6" to 30")	15
	HBUTVRO	Universal house bracket (18" to 36")	38
	EB2525G	Eave bracket (universal)	7
	TB50	Tower bushing for 25AG and ST25AG tops (1-1/4" I.D. x 2" O.D.)	1/2
	TB75	Tower bushing for 25AG and ST25AG tops (1-1/2" I.D. x 2" O.D.)	1/2
	AB	Amateur bearing for use with 25AG4 top (2" x 4" x 10" hardware)	1
	TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing (fits 25AG4 top section)	2-1/2
	TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing (fits 25AG4 top section)	3
	BAS25G	Bearing/accessory shelf section for mounting AB, TB3, or TB4 bearing and rotor	18
	BPL25G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	12
	UHF25G	Side arm mount for UHF and FM antenna	4
	SA253UA	Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube	28
	SA25G67	67" side arm with 1-1/4" I.D. support tube for mounting TV receiving antenna (not recommended and must be guyed to resist twist)	25
	TA25	Torque arm stabilizer assembly	35
✣	25TDM2	Top dish mount w/2" O.D. mast (extends 2' above top plate)	40
✣	25TDM2SP	Top dish mount w/2" standard pipe (extends 3' above top plate)	50
✣ ✦	25TDM2EH	Top dish mount w/2" EH pipe (extends 3' above top plate)	60
✣	25TDM25SP	Top dish mount w/2-1/2" standard pipe (extends 3' above top plate)	65
	DM25G2	Face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	42
	WP25G	Work platform (for #25 and #20 towers)	10
	SR245	Safety ring	8
	EF2545	Aluminum erection fixture, 12' long (fits all models with 1-1/4" side rails). (Use only to raise one 10' section or any part of a section at one time. Not intended to be used for lifting individuals.)	20
	P2545	Pole only for EF2545	12
	H2545	Head only for EF2545	8

Note: The price on #25 sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

The #20 tower is not recommended for commercial, ham, CB or guyed installations.

✣ Available by special order only. Allow 60 days for delivery.
★ Towers mounted on this base must be bracketed or guyed at all times.
✦ This item is not to be used without proper design consideration.
Refer to alphabetical/numerical price list for current prices.
F.O.B. Peoria, Illinois or Bessemer, Alabama

Specifications subject to change without notice

PARTS LIST P-558
(Replaces P-546)

April 1, 1992

PARTS LIST FOR #25G GUYED TOWERS

70 MPH Basic Wind Speed (No Ice)

Tower Height	25G	25AG2	BPC25G with 3/4x12PP	GA25GD	G.W. 3/16" EHS	BG2142	5/16" THH	T.B. 3/8x6 E&E	TBSAFETY	GAC 303	GAC 305	AGKE	BGKE
40'	3	1	1	1	175'	6	6	*	3	*		1	2
50'	4	1	1	2	350'	12	12	6	3	3		1	2
60'	5	1	1	2	425'	12	12	6	3	3		1	2
70'	6	1	1	2	500'	12	12	6	3	3		1	2
80'	7	1	1	3	800'	18	18	9	3	3		1	2
90'	8	1	1	3	900'	18	18	9	3	3		1	2
100'	9	1	1	3	1000'	18	18	9	3	3		1	2
110'	10	1	1	3	1100'	18	18	9	3	3		1	2
120'	11	1	1	4	1575'	24	24	12	3		3	1	2
130'	12	1	1	4	1700'	24	24	12	3		3	1	2
140'	13	1	1	4	1825'	24	24	12	3		3	1	2
150'	14	1	1	5	2425'	30	30	15	3		3	1	2
160'	15	1	1	5	2650'	30	30	15	3		3	1	2
170'	16	1	1	5	2825'	30	30	15	3		3	1	2
180'	17	1	1	5	2925'	30	30	15	3		3	1	2
190'	18	1	1	5	3175'	30	30	15	3		3	1	2

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

Items shown above are necessary for complete "ground" guyed towers. 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 in 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.

PARTS LIST P-574
(Replaces P-542)

February 15, 1993

PARTS LIST FOR #25G GUYED TOWERS

90 MPH Basic Wind Speed (No Ice)

Tower Height	25G	25AG2	BPC25G with 3/4x12PP	GA25GD	G.W. 3/16" EHS	BG2142	5/16" THH	T.B. 3/8x6 E&E	T.B. 1/2x12 E&J	TBSAFETY	GAC 303	GAC 305	GAC 3455	AGKE	BGKE
40'	3	1	1	1	175'	6	6	*		3	*			1	2
50'	4	1	1	2	350'	12	12	6		3	3			1	2
60'	5	1	1	2	425'	12	12	6		3	3			1	2
70'	6	1	1	2	500'	12	12	6		3	3			1	2
80'	7	1	1	3	800'	18	18	9		3	3			1	2
90'	8	1	1	3	900'	18	18	9		3	3			1	2
100'	9	1	1	3	1000'	18	18	9		3	3			1	2
110'	10	1	1	3	1100'	18	18	9		3	3			1	2
120'	11	1	1	4	1575'	24	24	12		3		3		1	2
130'	12	1	1	4	1700'	24	24	12		3		3		1	2
140'	13	1	1	4	1825'	24	24	12		3		3		1	2
150'	14	1	1	5	2425'	30	30		15	3			3	1	2
160'	15	1	1	5	2650'	30	30		15	3			3	1	2
170'	16	1	1	6	2775'	36	36	6	12	6	3		3	2	2
180'	17	1	1	6	2925'	36	36	6	12	6	3		3	2	2
190'	18	1	1	6	3150'	36	36	6	12	6	3		3	2	2

* Note: For 40' ground tower, 3 GAR30 anchors and 3 5/8TBE&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. 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 remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

PARTS LIST P-553
(New Sheet)

February 1, 1992

PARTS LIST FOR #25G GUYED TOWERS

110 MPH Basic Wind Speed (No Ice)

Tower Height	25G	25AG2	BPC25G with 3/4X12PP	GA25GD	G.W. 3/16" EHS	BG2142	5/16" THH	T.B. 3/8X6 E&E	TBSAFETY	GAC 303	AGKE	BGKE
40'	3	1	1	1	175'	6	6	*	3	*	1	2
50'	4	1	1	2	350'	12	12	6	3	3	1	2
60'	5	1	1	2	425'	12	12	6	3	3	1	2
70'	6	1	1	2	500'	12	12	6	3	3	1	2
80'	7	1	1	3	825'	18	18	9	3	3	1	2
90'	8	1	1	3	950'	18	18	9	3	3	1	2
100'	9	1	1	3	1025'	18	18	9	3	3	1	2

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

Items shown above are necessary for complete "ground" guyed towers. 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 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. 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.

March 1, 1989

REFERENCE SHEET AND ASSEMBLY INFORMATION
#25 BRACKETED TOWERS, NON-GUYED
(See Rohn Catalog for Guyed Tower Information)

INSTALLATION: Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast and antenna combined. Tower should be installed and dismantled by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

BASE: See Drawing No. A871298 for the size of the hole for concrete placement. (Note: For cases of loose soil, etc., the hole must be larger.) Spread about 2" to 6" of gravel in bottom of hole prior to setting short base or tower section. After setting short base or tower section on gravel, fill another 3" with gravel around the tower legs. This allows the tower legs to extend the required amount below the bottom of the concrete, thus allowing for drainage of moisture into the gravel. The first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

HEIGHT OF TOWER AND BRACKET USES: See drawing No. A871302 for specific information on tower heights and placement of house brackets on #25 bracketed towers. (Note: Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.)

BOLTS: Nuts and bolts are located in tower legs. Installers are urged to use a 10" lining-up punch that tapers from about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

MISCELLANEOUS: Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section or any part of a section at one time. Erection fixtures are not intended to be used for lifting individuals. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

CAUTION . . . Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 30' of #25 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

See Drawing No. A871266 for more information on non-guyed towers.

Our catalog information excludes roof installations. Local engineers must be consulted to determine adequate base and anchor details and windload criteria for all roof type installations.

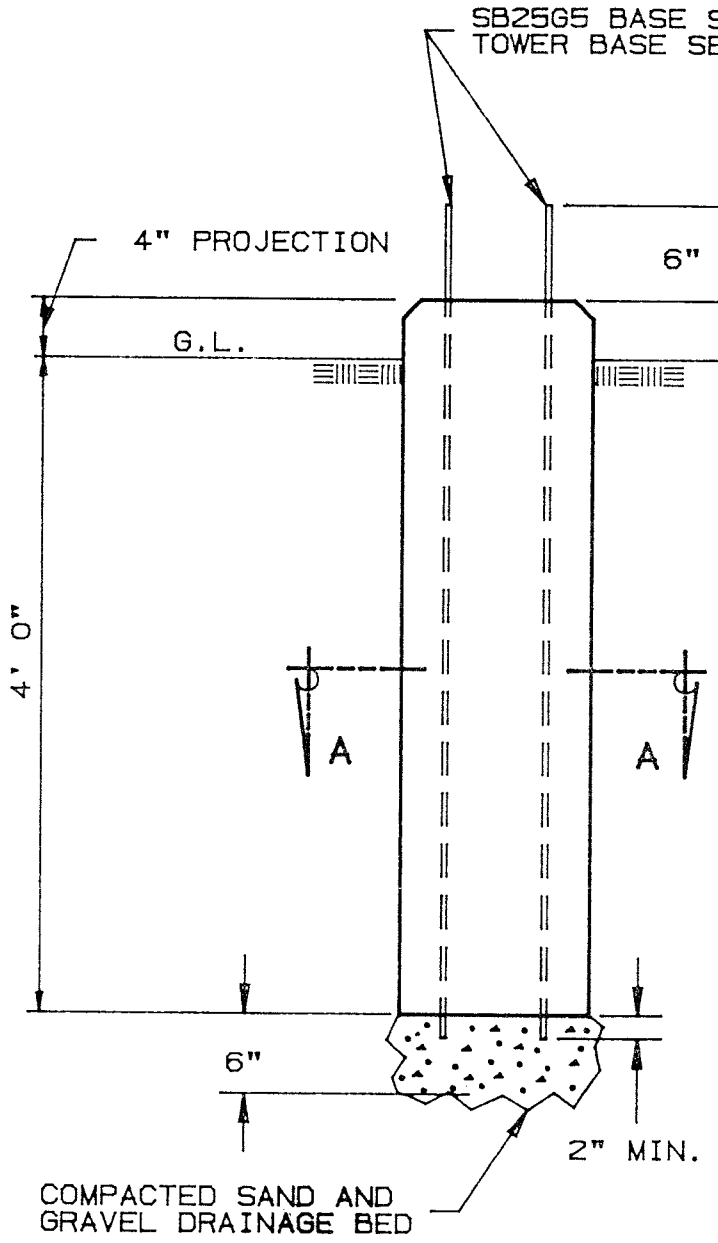
NOTE: All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and re-marked with hazard and warning labels to insure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

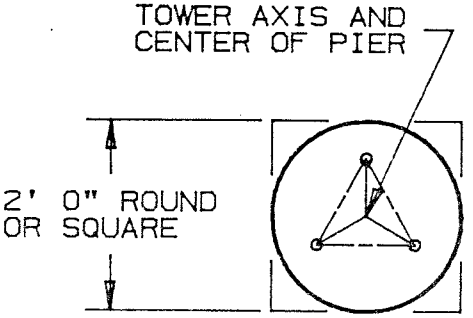
Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture. Temporary steel guys may be necessary at the 10' level.

Part Number	
25BRKT040	40' Complete Bracketed Tower
25BRKT050	50' Complete Bracketed Tower
25BRKT060	60' Complete Bracketed Tower
25BRKT070	70' Complete Bracketed Tower
25BRKT080	80' Complete Bracketed Tower
25BRKT090	90' Complete Bracketed Tower
25BRKT100	100' Complete Bracketed Tower

Refer to Alphabetical/numerical price list for Prices on Complete #25 Bracketed Towers.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.





SECTION A-A

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

NOTE:
FOUNDATION DEPTH DETERMINED BY U.B.C. SEC. 2907

ELEVATION

MAX. REACTIONS

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

VOLUME OF CONCRETE

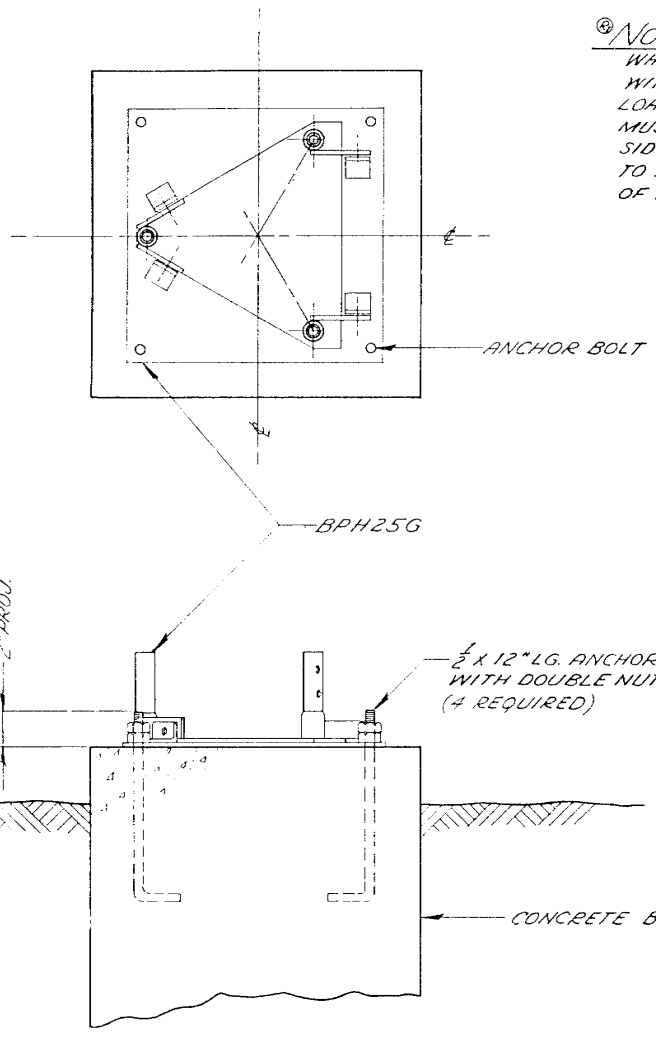
SQUARE PIER = .7 CU. YDS.
ROUND PIER = .5 CU. YDS.

DRAWN BY: WDU	DATE: 9/16/87
CHECKED BY: KRF	DATE: 9/29/87
APP'D. ENG: XK	DATE: 2/12/88
APP'D. SALES:	DATE: 2-12-88
FILE NUMBER:	
DRAWING NUMBER: A871298	

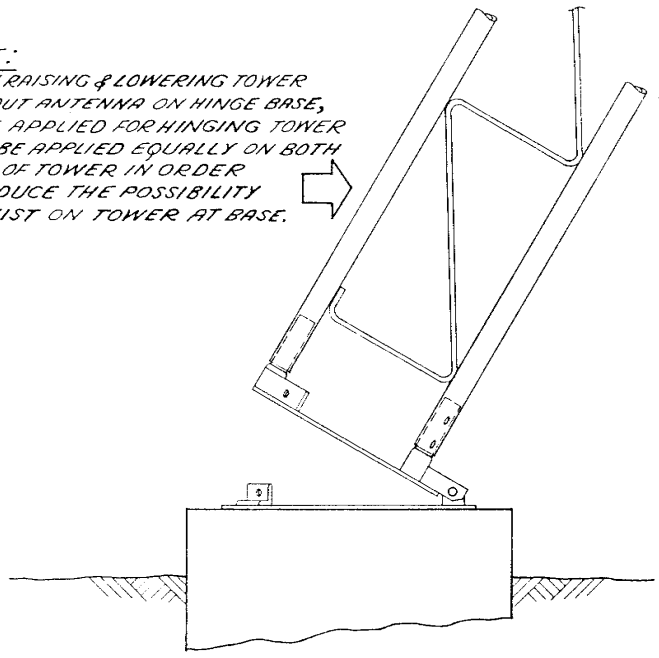
ROHN

TITLE:

FOUNDATION DETAIL BRACKETED 25 TOWER



(R2) NOTE:
WHEN RAISING & LOWERING TOWER WITHOUT ANTENNA ON HINGE BASE, LOADS APPLIED FOR HINGING TOWER MUST BE APPLIED EQUALLY ON BOTH SIDES OF TOWER IN ORDER TO REDUCE THE POSSIBILITY OF TWIST ON TOWER AT BASE.



IMPORTANT: BE SURE HINGE BOLTS ARE LOOSENED BEFORE ATTEMPTING TO FOLD TOWER OVER.

(R2) 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 TOWER & 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.

NOTE: TOWERS MODIFIED BY [illegible]

NO.	DESCRIPTION	DATE	BY
R2	ADDED NOTE	9-17-75	DH
R1	REVISED NOTE	8-27-75	DH

REVISIONS

ROHN® MANUFACTURING
DIVISION OF UNARCO

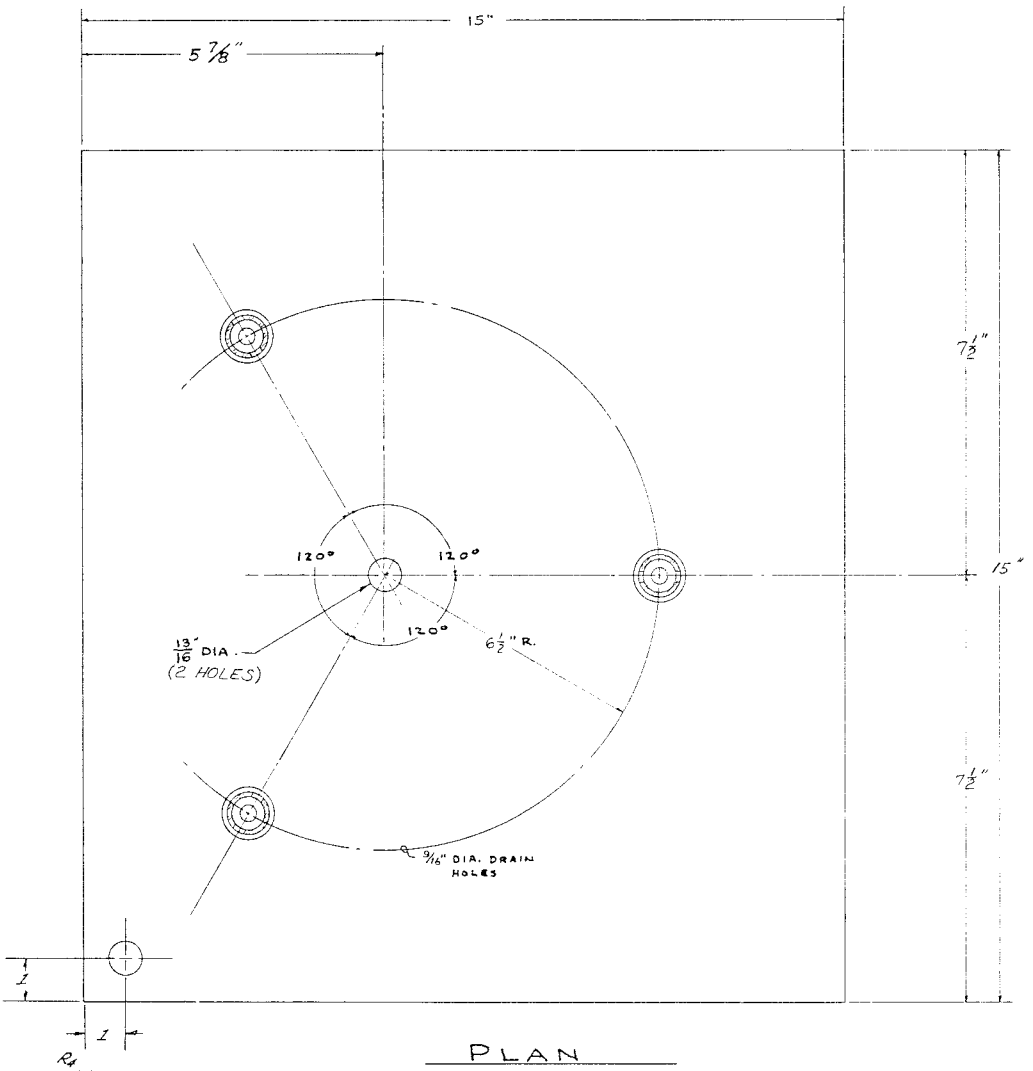
TITLE
BPH25G INSTALLATION

FILE NO.

SCALE ~	MATERIAL	FINISH	WT.
DWN. BY O.H.	DATE 2-12-75	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	
CH'D. BY DPH	DATE 3-20-75		
APP'D. ENGRG. CWJ	DATE 3-20-75	TOLERANCES DEC. ± FRAC. ± ANGLES ±	DWG. NO. C-750112 R2
APP'D. SALES [illegible]	DATE 3-20-75		

GAF 880-250 2-72 46194

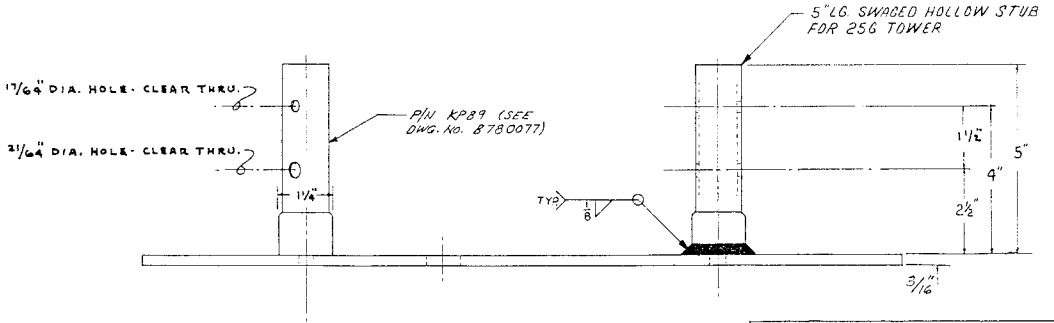
PRINTED IN U.S.A.



R4

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.

R9	REVISE R SIZE	7-17-92	WDH	7/16
R8	REV. TEMP. GUYING NOTE	12-6-88	FHT	1/16

R7	ADDED TEMP. GUYING NOTE	11-8-78	RJB
R6	DELETE EXCESS HOLES	8-31-78	JWR
R5	CHANGED STUB FROM 16 GA. TO 14 GA, ADDED PN	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	JER

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

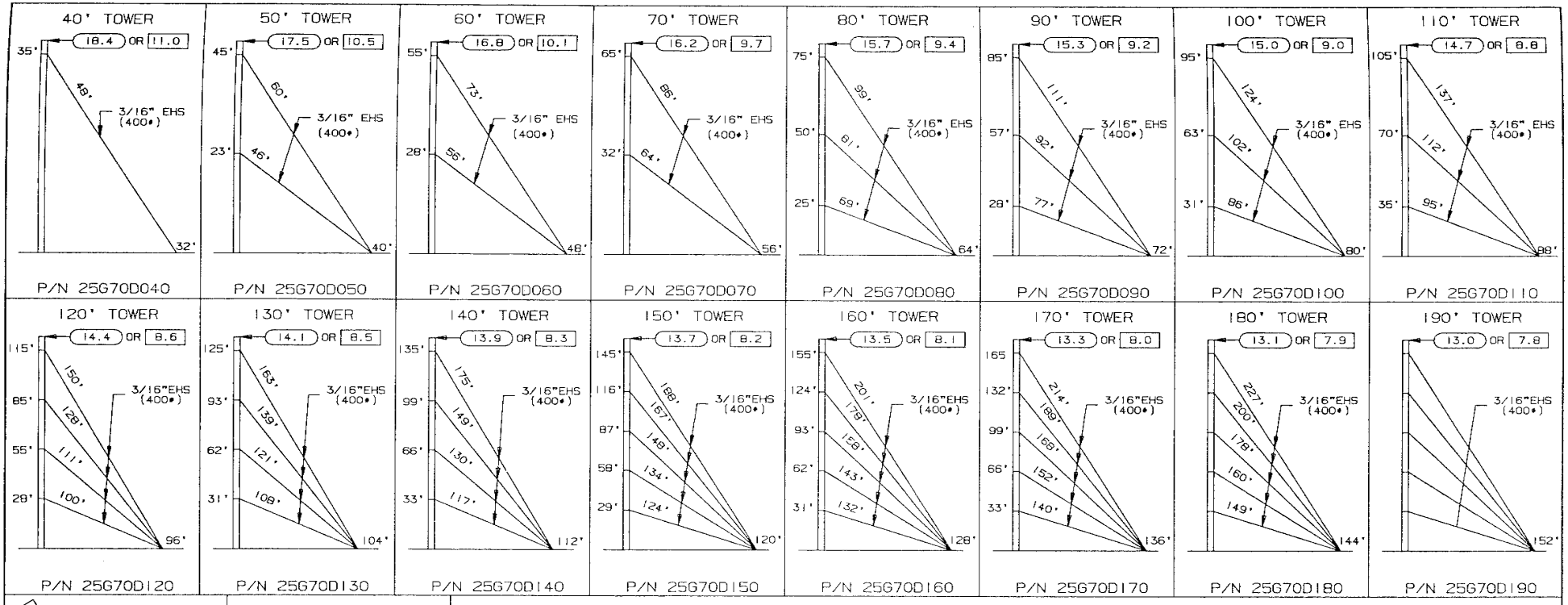
DRAWN ck	CUSTOMER	TITLE
CHECKED RAK		BASE PLATE FOR MODEL 25 TOWER
APPROVED ck		
DATE 8-31-61	ROHN MFG. PEORIA, ILLINOIS	DRAWING NO. C 610831 R9
SCALE ~		

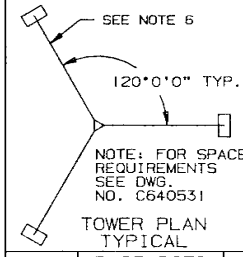
ROHN
NO. 25G BRACKETED TOWERS - NO ICE

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	---	---

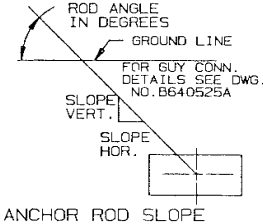
1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.
2. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.
3. DESIGNS ASSUME ONE 5/8" TRANSMISSION LINE ON EACH FACE, (TOTAL =3), SYMMETRICALLY PLACED.
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT 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 A871298.
12. ALL BRACKETS ARE TO BE ROHN P/N HBUTVRO PER DRAWING D850221.
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. A871302R1





TOWER PLAN TYPICAL



ANCHOR ROD SLOPE

GENERAL NOTES

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE).
2. ▭ ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. ▭ ALLOWABLE PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS.
3. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
4. ANTENNA AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER APEX.
5. DESIGN ASSUMES ONE 5/8" DIA. LINE ON EACH TOWER FACE.
6. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
7. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
8. TOWER DESIGNS 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 FAHRENHEIT.
9. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
10. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
11. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
12. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
13. ALL ANTENNA 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. B680324 LATEST REVISION.

TOWER HT.	BASE PIER REF. DWG. C610621 NO.	BASE PIER REF. DWG. C610621 REAC. LBS.	INNER ANCHOR DATA REF. DWG.: BLOCK-C620643; ROD-C660415 BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
40'	CBI	1,800	4A	GAR30	47.7	10.9	12	710	780
50'	CBI	2,390	4A	GAC303	41.8	12	10.7	1,140	1,020
60'	CBI	2,530	4A	GAC303	42.1	12	10.9	1,190	1,070
70'	CBI	2,660	4A	GAC303	41.9	12	10.8	1,250	1,120
80'	CBI	3,350	4A	GAC303	39.3	12	9.8	1,700	1,400
90'	CBI	3,510	4A	GAC303	39.4	12	9.9	1,780	1,460
100'	CBI	3,650	4A	GAC303	39.4	12	9.8	1,860	1,530
110'	CBI	3,820	4A	GAC303	39.4	12	9.8	1,980	1,620
120'	CBI	4,540	4A	GAC305	37.5	12	9.2	2,480	1,900
130'	CBI	4,750	4A	GAC305	37.7	12	9.3	2,580	1,990
140'	CBI	4,910	4A	GAC305	37.5	12	9.2	2,680	2,060
150'	CBI	5,740	4A	GAC305	36.7	12	9.0	3,240	2,410
160'	CBI	5,920	4A	GAC305	36.6	12	9.0	3,360	2,500
170'	CBI	6,150	4A	GAC305	36.8	12	9.0	3,490	2,610
180'	CBI	6,340	4A	GAC305	36.7	12	9.0	3,630	2,700
190'	CBI	6,520	4A	GAC305	36.7	12	9.0	3,730	2,780

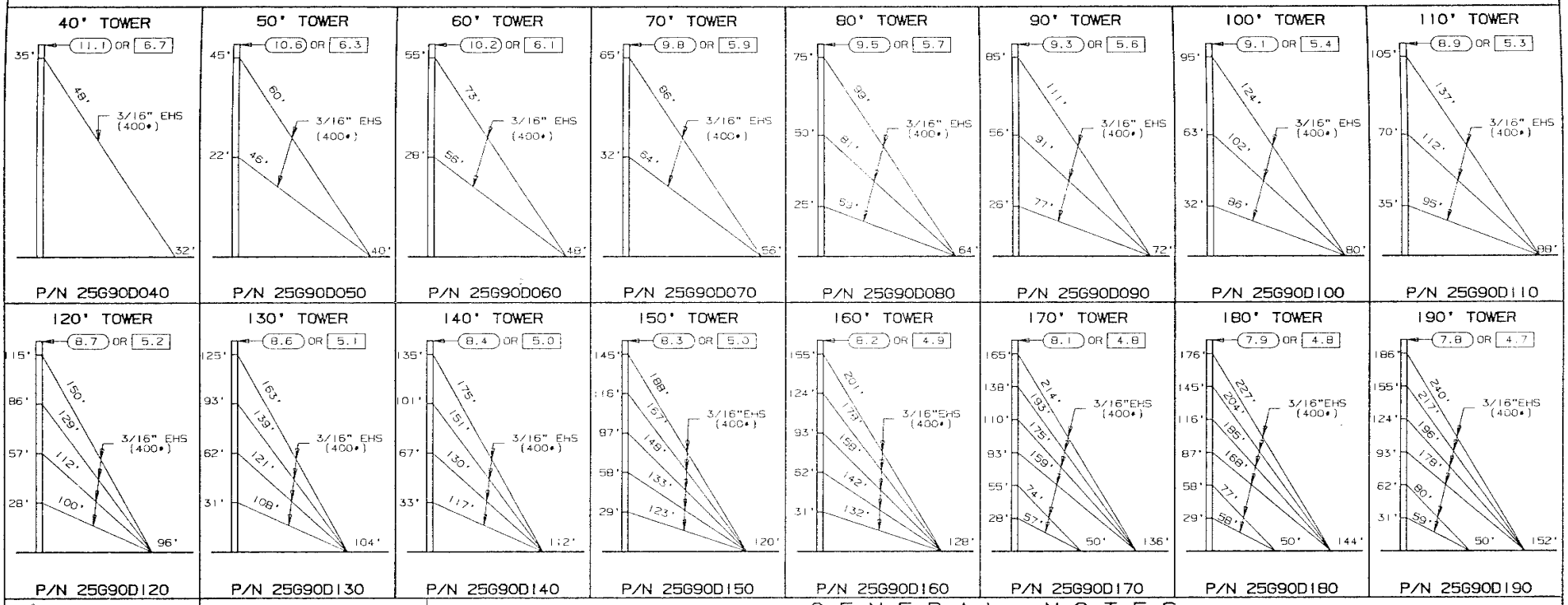
No.	Revision Description	Date	Rev By	Ckd By	Appd By
R3	REV. NOTE NO. 3	6-8-92	RKB	KTL	TS
R2	REV'D GEN. NOTES WAS REV-D; NOW REV-E	1-27-92	RKB	KTL	TS
R1	CHANGED NOTE 7 TO NOTE 6 IN TOWER PLAN TYPICAL	3/1/91	CSR	KTL	TS

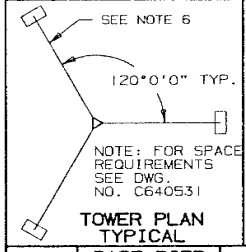
ROHN

	By	Date
Scale: NONE		
Drawn:	GCW/WDJ	9/1/87
Checked:	WRF	9/24/87
App. Eng.:	RAM	10/2/87
App. Sales:	AE	2/12/88

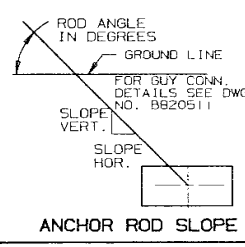
Title: GUYING DETAILS FOR 40'-190' 25G TOWERS 70 MPH BASIC WIND SPEED (NO ICE)

DRAWING NO.: C870484 R3





TOWER PLAN TYPICAL



ANCHOR ROD SLOPE

GENERAL NOTES

1. TOWER DESIGN IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE)
2. ( ) ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS.
   [ ] ALLOWABLE PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS.
3. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBERS ANTENNAS.
4. ANTENNA AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER APEX.
5. DESIGN ASSUME ONE 5/8" DIA. LINES ON EACH TOWER FACE.
6. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
7. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
8. TOWER DESIGNS 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 FAHRENHEIT.
9. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
10. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
11. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
12. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
13. ALL ANTENNA 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. 8680324 LATEST REVISION.

TOWER HT.	BASE PIER REF. DWG. C610621 NO.	BASE PIER REAC. LBS.	INNER ANCHOR DATA REF. DWG.: BLOCK-C620643; ROD-C660415 BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.	OUTER ANCHOR DATA REF. DWG.: BLOCK-C620643; ROD-C660415 BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
40'	CB1	2,050	4A	GAR30	47.6	11	12	850	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	39.1	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	GAC345501	36.5	12	9.0	4,270	3,160							
160'	CB1	7,110	4A	GAC345501	36.5	12	9.0	4,460	3,310							
170'	CB1	9,140	4A	GAC303	38.7	12	9.6	1,240	990	4A	GAC345501	41.9	12	10.8	3,770	3,390
180'	CB1	9,480	4A	GAC303	40.2	12	10.2	1,230	1,040	4B	GAC345501	41.9	12	10.8	3,940	3,530
190'	CB1	9,870	4A	GAC303	42.1	12	10.8	1,250	1,130	4B	GAC345501	42.0	12	10.8	4,070	3,660

No.	Revision Description	Date	Rev By	Ckd By	Appd By
R1	REV'D EIA-222-D, TO EIA-222-E	9-10-91	RKB		

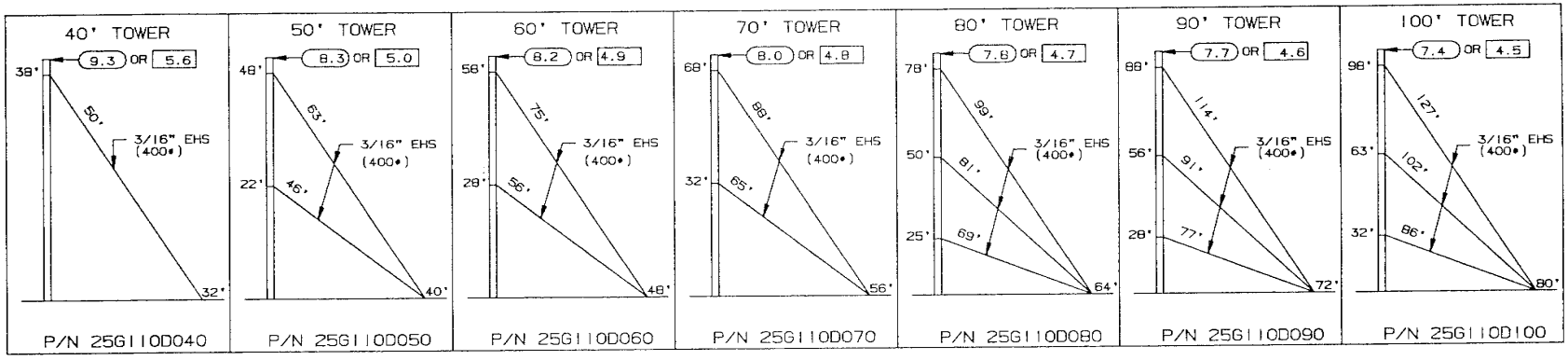
ROHN

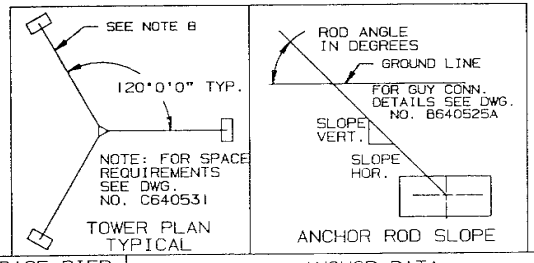
	By	Date
Scale: NONE		
Drawn:	GPW	9-1-87
Checked:	WRF	9-24-87
App. Eng.:	RAM	10-1-87
App. Sales:	AE	2-12-88

Title: GUYING DETAILS FOR 40'-190' 25G TOWERS 90 MPH BASIC WIND SPEED (NO ICE)

ENG. FILE:

DRAWING NO.: C870488 R1





TOWER HT.	BASE PIER REF. DWG. C610621		ANCHOR DATA REF. DWG.: BLOCK-C620643; ROD-C660415						
	NO.	REAC. LBS.	BLOCK NO.	ROD NO.	ROD ANGLE	SLOPE HOR.	SLOPE VERT.	REAC. LBS. HOR.	REAC. LBS. VERT.
40'	CBI	2,650	4A	GAR30	49.8	10.1	12	1,030	1,210
50'	CBI	3,120	4A	GAC303	41.3	12	10.6	1,480	1,680
60'	CBI	3,490	4A	GAC303	41.6	12	10.7	1,830	1,630
70'	CBI	3,890	4A	GAC303	41.2	12	10.5	2,050	1,800
80'	CBI	4,650	4A	GAC303	39.2	12	9.8	2,690	2,190
90'	CBI	5,040	4A	GAC303	39.0	12	9.7	2,960	2,400
100'	CBI	5,400	4A	GAC303	39.1	12	9.8	2,560	3,150

GENERAL NOTES

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E-1991 (NO ICE).
2. ⬭ ALLOWABLE PROJ. AREA (SQ. FT.) FOR ROUND MEMBER ANTENNAS. ▭ ALLOWABLE PROJ. AREA (SQ. FT.) FOR FLAT MEMBER ANTENNAS.
3. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
4. ANTENNA AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER APEX.
5. DESIGN ASSUME ONE 5/8" DIA. LINES ON EACH TOWER FACE.
6. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
7. FOR GUY HARDWARE INSTALLATION DETAILS SEE DWG. A871382.
8. TOWER DESIGNS 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 FAHRENHEIT.
9. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
10. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.
11. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
12. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
13. ALL ANTENNA 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. B680324 LATEST REVISION.

No.	Revision Description	Date	Rev By	Ckd By	Appd By
R2	REV NOTE NO. 3	5-21-92	RKB	[illegible]	TS
R1	EIA-222-E-1991 WAS EIA-222-D	12-9-91	RKB	WDU/KTL	TS

ROHN

	By	Date
Scale: NONE		
Drawn:	RKB	12-27-90
Checked:	KKG	1-28-91
App. Eng.:	TS	2-21-91
App. Sales:	AE	2-21-91

Title: GUYING DETAILS FOR 40'-100' 25G TOWERS 110 MPH BASIC WIND SPEED (NO ICE)

ENG. FILE:

DRAWING NO.: C902041 R2