



ri-Ex TOWER CORPORATION

MAIN OFFICE: 127 East Inyo Street • TULARE, CALIFORNIA • Telephone MUrdock 6-3411

INSTRUCTIONS FOR INSTALLING MODEL HZN TOWERS

- 1.- PLEASE CHECK YOUR TOWER FOR ANY BENT BRACES OR OTHER CONCERNED DAMAGE BEFORE PROCEEDING WITH INSTALLATION.
- 2.- WHEN TRIPOD IS USED, EXCAVATE THE FOUR HOLES, AS SHOWN IN INSTALLATION DETAILS, TO PROPER DEPTH AND SIZE AS SHOWN ON CHART. (BE SURE THAT TRIPOD FOOTINGS ARE SPACE 120° APART.)
- 3.- POUR THE NECESSARY CONCRETE FOR THE TOWER BASE FOOTING AND THE THREE ANCHOR ROD FOOTINGS. WHILE CONCRETE IS STILL WET INSTALL THE THREE 1/2" CONCRETE ANCHOR BOLTS FURNISHED, IN CENTER TOWER FOOTING SPACING AS PER "W" ON CHART (SEE FIG. TWO). ALLOW ABOUT 1" OF THE THREADED PORTION OF THE BOLT TO EXTEND ABOVE THE FINISHED CONCRETE (NOTE: ANCHOR BOLTS SHOULD BE POSITIONED WITH A TEMPLATE). NOW INSTALL THE THREE TRIPOD ANCHOR RODS, AS IN FIGURE THREE OF THE INSTALLATION DETAILS, BEING CAREFUL TO MAINTAIN THE 7' -2 5/8" SPACING BETWEEN THE ANCHOR ROD AND THE TOWER BASE ANCHOR BOLT NEAREST EACH FOOTING. BE SURE THAT APPROXIMATELY 3" OF THE ANCHOR ROD EAR EXTENDS ABOVE THE THE CONCRETE ANCHOR FOOTINGS.
- 4.- WHEN TBC-N BASE IS USED ON HZ-237N OR HZ-354N, EXCAVATE FOR THE SIZE FOOTING AS SHOWN IN THE ENCLOSED PRINT. (NOTE: A 36" DIAMETER HOLE MAY BE SUBSTITUTED FOR THE SQUARE HOLE SHOWN IN THE ENCLOSED PRINT FOR HZ-237N; A 42" DIAMETER HOLE FOR HZ-354N.)
- 5.- IF DESIRED, THREE GUY LINES OF 1/4" 1 X 19 A/C CABLE MAY BE USED (FOR SUBSTITUTION) ON ALL HZ-N MODEL TOWERS. THESE ARE FASTENED TO THE TOP OF THE BOTTOM SECTION ONLY, AS THE BALANCE OF THE TOWER WOULD BE FULLY SELF-SUPPORTING. (ON HZ-588N MODEL TOWERS WITH HEAVY HAM BEAMS, A TRIPOD BASE WITH AN AUXILIARY SET OF SNAP GUYS AT THE 71' LEVEL MUST BE USED. THESE SNAP GUYS GIVE ADDITIONAL SUPPORT TO THE TOWER WHEN FULLY EXTENDED AND FASTEN TO GUY POINTS AS SHOWN IN INSTALLATION PRINTS.)



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INSTRUCTIONS FOR INSTALLING MODEL HZN TOWERS (CON'T)

- 6.- ALLOW CONCRETE TO CURE FOR AT LEAST THREE DAYS BEFORE INSTALLING TOWER.
- 7.- A PROP PITCH OR OTHER ROTATING MOTOR MAY BE INSTALLED BY TAKING OUT THE FOUR BOLTS AND REMOVING THE X BRACING IN THE THIRD PANEL DOWN OF THE TOWER TOP SECTION. AFTER INSTALLING ROTATING MOTOR, REPLACE X BRACING.
- 8.- FASTEN TOWER ON BASE PLATE WITH TWO 3/4" BOLTS, AS SHOWN IN SHEET 1-A.
- 9.- TILT TOWER INTO VERTICAL POSITION, USING A BLOCK AND TACKLE OR TRIPOD JIN POLE. WHEN TOWER IS IN VERTICAL POSITION, INSTALL THE THIRD 3/4" BOLT WHICH SECURELY FASTENS TOWER TO BASE. (SHEET 1-B).
- 10.- INSTALL TRIPOD WITH THE 3/4" BOLTS FURNISHED. (NOTE: TRIPOD CAN BE INSTALLED SO THAT TURNBUCKLE IS AT TOWER CONNECTION OR AT ANCHOR CONNECTION.)
- 11.- YOU MAY NOW INSTALL YOUR ANTENNA. AS AN INSTALLATION AID, ANY OF OUR TOWER PLATFORMS, EXCEPT FOR OUR MODEL H-8, MAY BE USED FOR THIS OPERATION AND LEFT PERMANENTLY INSTALLED ON THE TOWER. THIS INCLUDES OUR H-8N WHICH HAS BEEN MODIFIED TO FIT THESE MODELS. IN THE EVENT THAT OUR CO COAX KIT IS USED, THIS MAY BE ALSO INSTALLED AT TIME OF INSTALLING ANTENNA. WHEN USING ANY OF OUR MC OR RLH RAISING AND LOWERING UNITS, THESE SHOULD NOW BE INSTALLED AS PER INSTRUCTIONS ENCLOSED WITH EACH UNIT. FOR MANUEL OPERATION, THE CRANK IS TURNED IN A COUNTER CLOCKWISE DIRECTION TO RAISE THE TOWER AND CLOCKWISE TO LOWER.
- 12.- IN THE EVENT THAT ANY PROBLEMS ARISE CONCERNING THE INSTALLATION AND OPERATION OF YOUR NEW TRI-EX TOWER, PLEASE DO NOT HESITATE TO CONTACT US AT YOUR CONVENIENCE.

INSTALLATION DETAILS

for
HZ-N MODELS with TRP-3 BASE

NOTE:

7'-2 5/8" is standard for all towers, and is measured from tower base bolt hole to center of tripod footing.

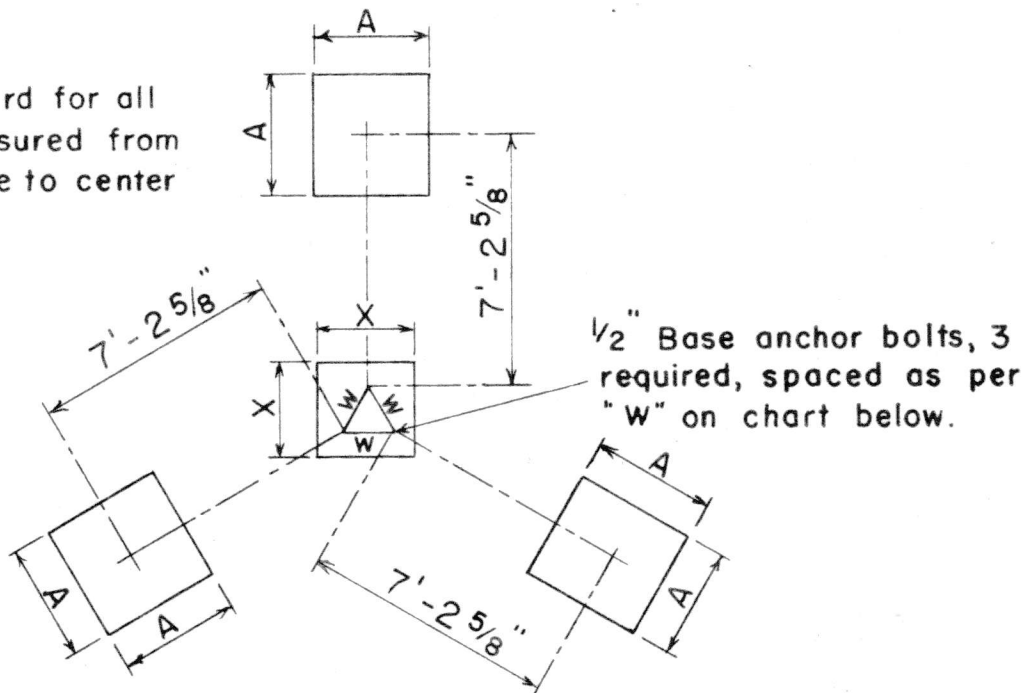


Figure 1

NOTE:

Top of tower footing is 6" above grade

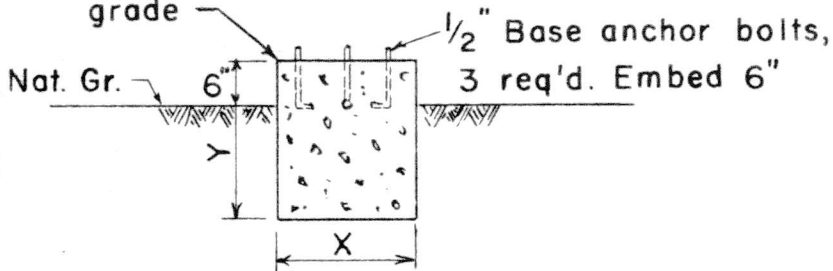


Figure 2

SECTION THROUGH TOWER FOOTING

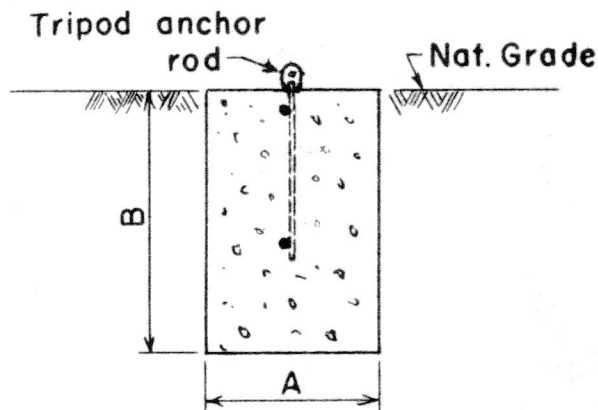
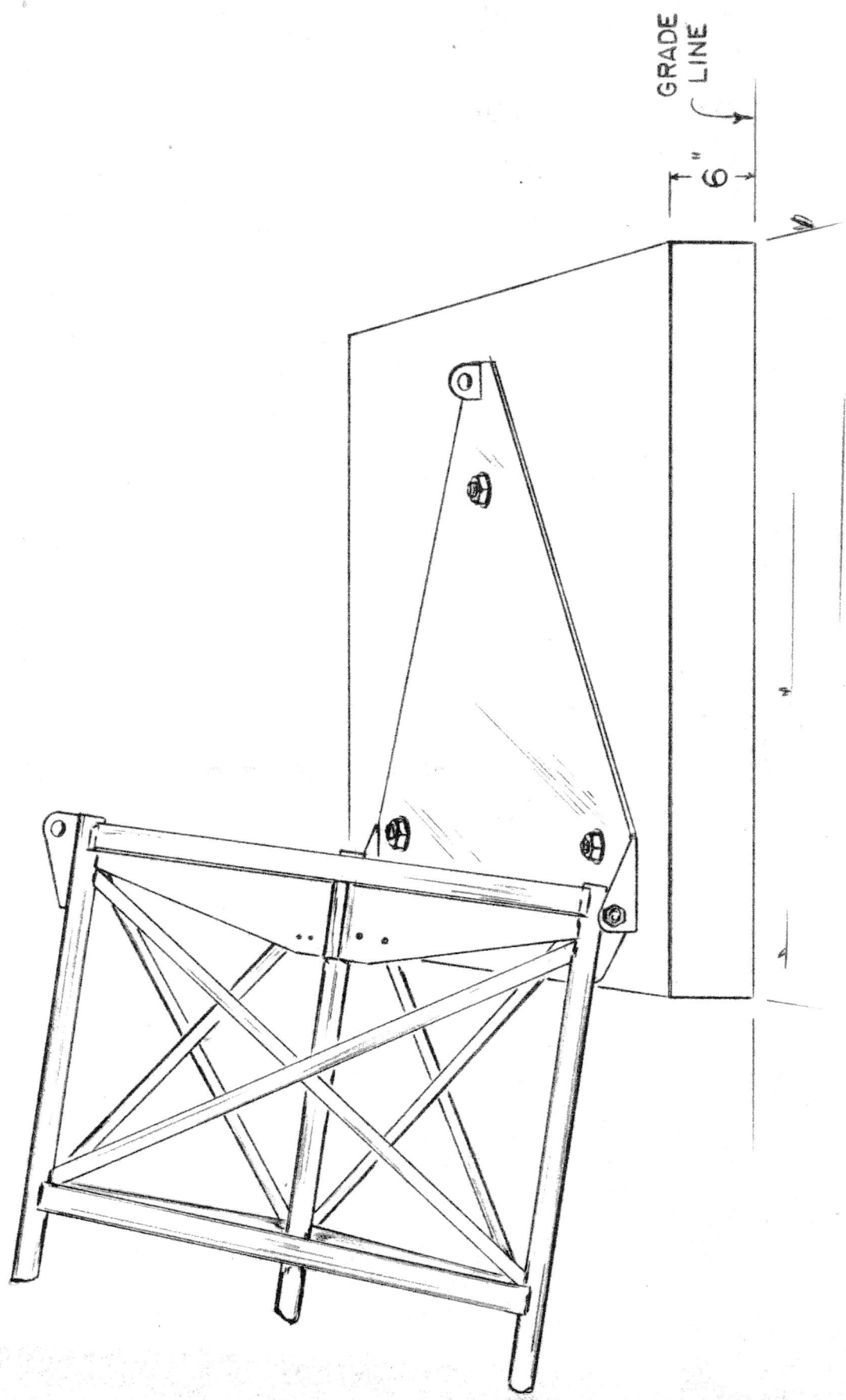
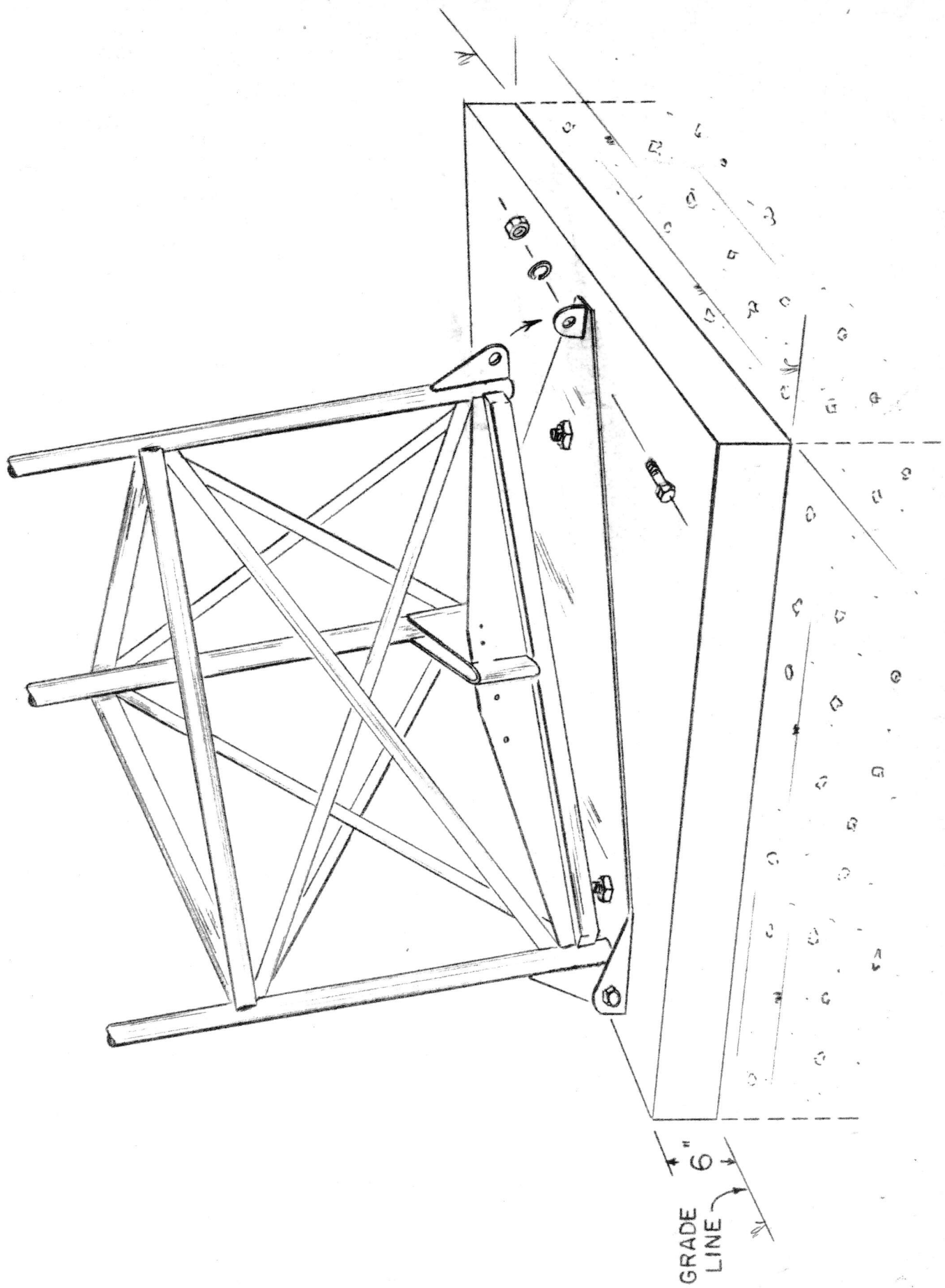


Figure 3

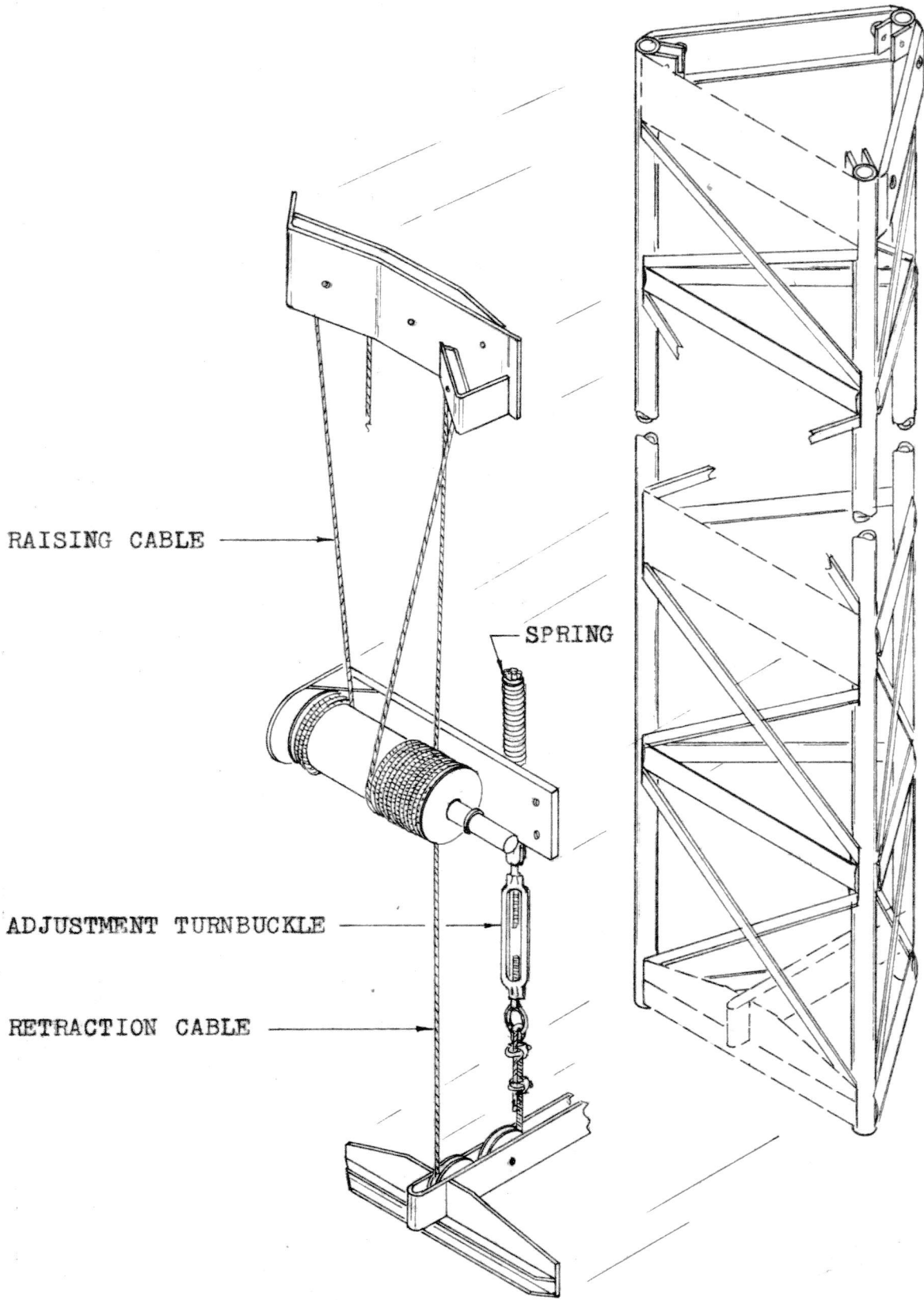
SECTION THROUGH TRIPOD FOOTING

MODEL	TOWER FOOTING			TRIPOD FOOTING	
	W	X	Y	A	B
HZ-237-N	13 1/8"	2'-6"	3'-0"	2'-0"	4'-0"
HZ-354-N	17 3/16"	2'-6"	3'-0"	3'-0"	4'-0"
HZ-471-N	21 1/4"	3'-0"	3'-0"	3'-6"	4'-6"
HZ-588-N	25 1/16"	3'-6"	3'-0"	4'-6"	6'-0"





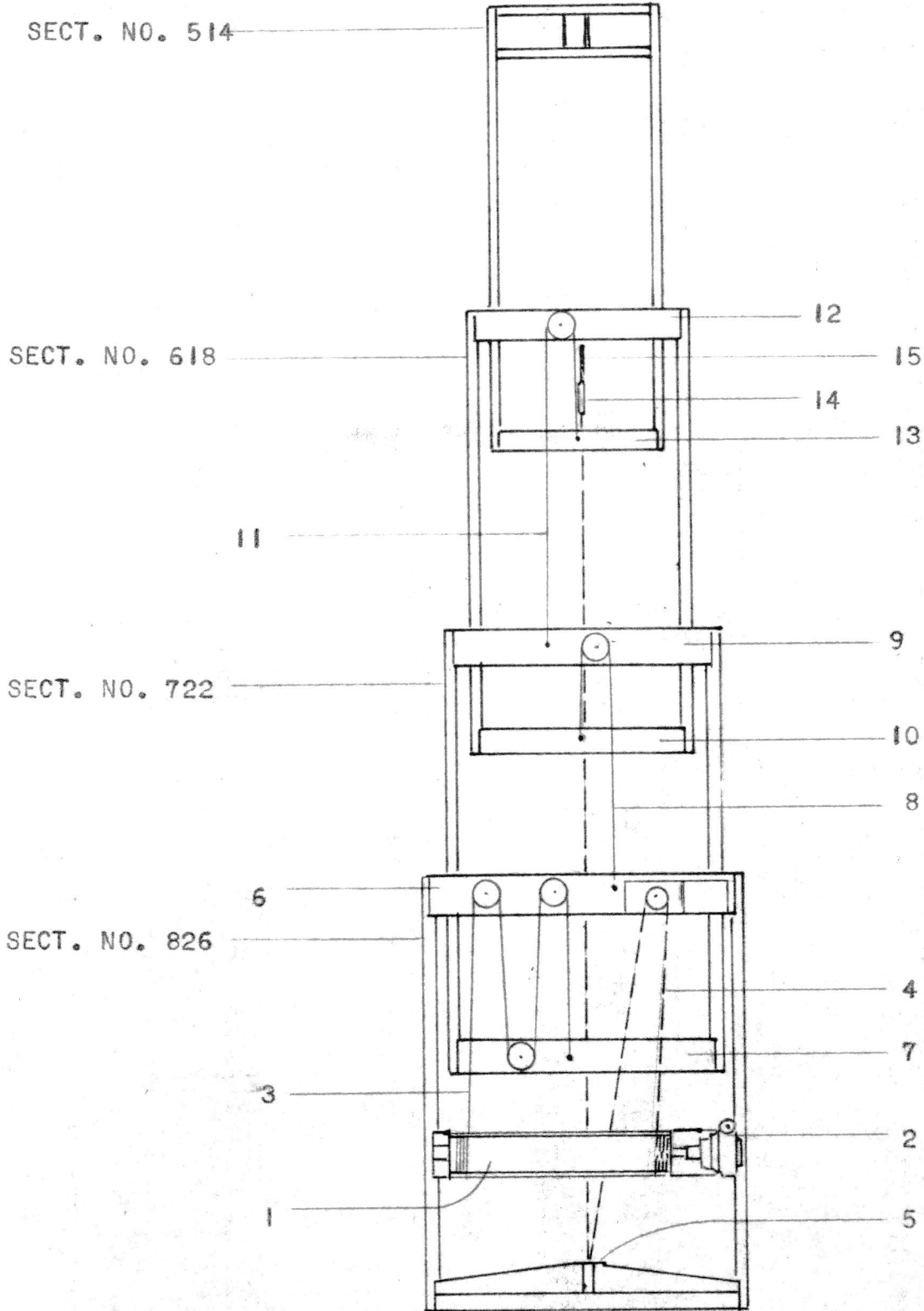
Raise Tower to its full height and check to see if Retraction Cable has not loosened, due to antenna weight, in excess of average tensioning at factory. If Retraction Cable has loosened, lower tower, being carefull to see that cables do not spread or double wrap on drum. When tower is fully lowered, adjust Retraction Cable with Adjustment Turnbuckle inside tower until Spring is fully compressed. Repeat raising tower until proper adjustment has been completed. CAUTION: CHECK THIS TENSION PERIODCALLY DURING OPERATION, AS CABLES WILL REQUIRE ADJUSTING DURING BREAK IN AND OPERATION.



GENERAL PARTS LIST

ITEM NO.	DESCRIPTION	QTY.
1	CABLE DRUM, 5" O.D. x 16 5/8"	1
2	WORM GEAR RAISING WINCH, 40:1	1
3	MAIN PULLUP CABLE 1/4"-7 x 19 A/C	78'-9"
4	LOWERING CABLE 1/4"-7 x 19 A/C	91'-0"
5	LOWERING SYSTEM, CONTAINING TWO (2) 3 1/2" PULLEYS	1
6	NO. 8-W PULLEY FRAME, CONT. TWO (2) 5A PULLEYS (5" O.D.) AND ONE (1) 3 1/2" PULLEY FOR PULLDOWN	1
7	NO. 7-P BOTTOM PULLEY FRAME, CONT. ONE (1) 5A PULLEY	1
⑧	NO. 6 PULLUP CABLE, 1/4"-7 x 19 A/C	20'-0"
9	NO. 7-P TOP PULLEY FRAME, CONT. ONE (1) 5A PULLEY	1
10	NO. 6-P BOTTOM ANCHOR FRAME	1
11	NO. 5 PULLUP CABLE, 1/4"-7 x 19 A/C	20'-1 1/4"
12	NO. 6-P TOP PULLEY FRAME, CONT. ONE (1) 5A PULLEY	1
13	NO. 5-T ANCHOR FRAME	1
14	DF TURNBUCKLE, 3/8" x 6	1
15	COMPRESSION SPRING, 7/8" x 12	1

HZN-471 GENERAL PARTS LIST



BILL OF MATERIALS
(BMP-61 Rasing & Lowering Kit)

No.	Pkg/Pkgs.	Qty.	Description
1	1 of 1	1	Belt Guard
2		1	5/8" Mounting Hub and Bolts
3		1	Pulley 10 3/4" P.D.
4		1	V-Belt Type A 41"
5		1	Pulley 1 1/2" P.D.
6		1	Motor Mounting Bracket
7		10	5/16" x 3/4" NC Cap Screw
8		10	5/16"∅ Lock Washer
9		6	5/16"∅ NC Hex Nut
10		4	5/16"∅ Flat Washer

Tri-Ex Tower Corporation
Tulare, California

Ref. Dwg.# 100-1026