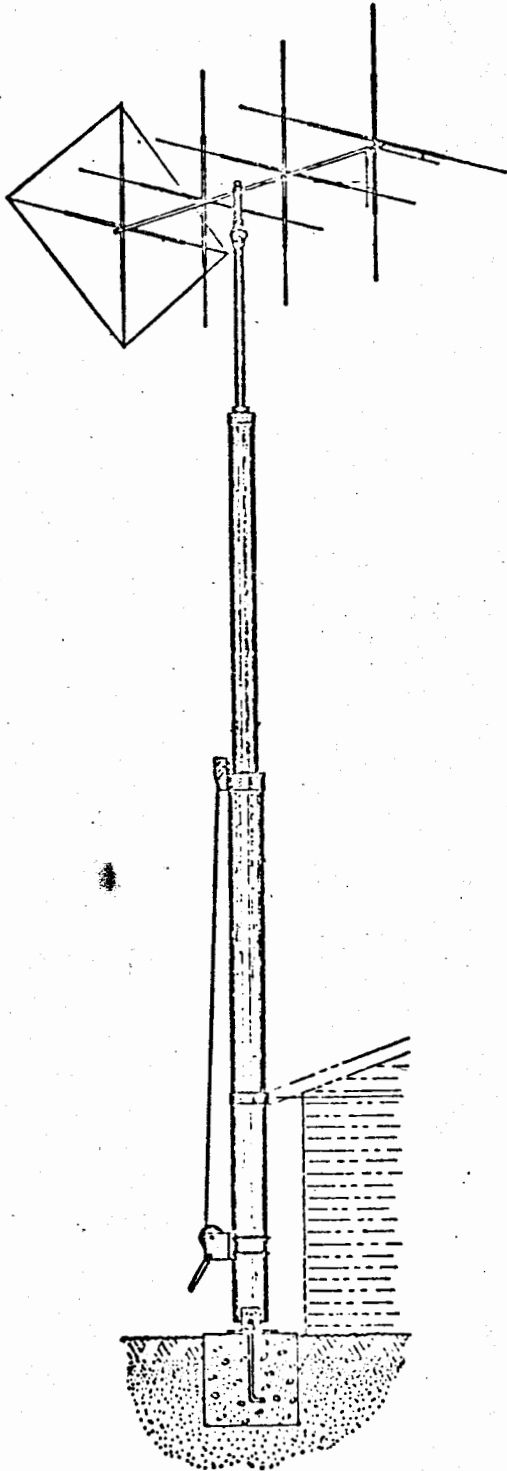


INSTALLATION INSTRUCTIONS



Crank-Up Tower

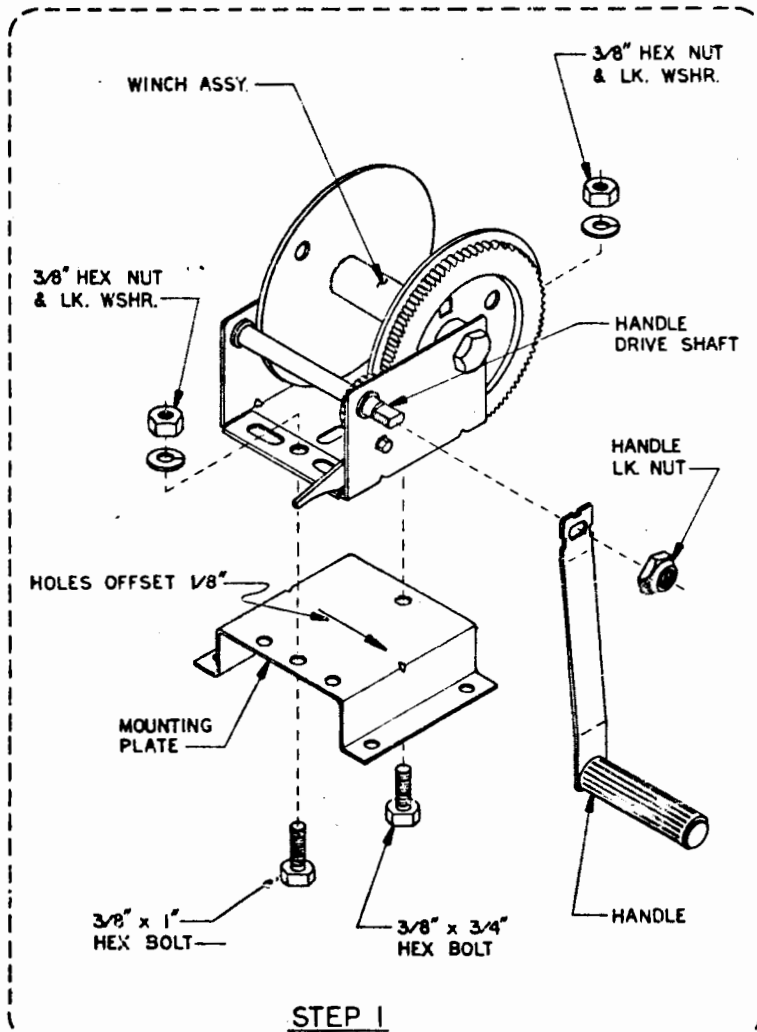
Model No:

TT-45

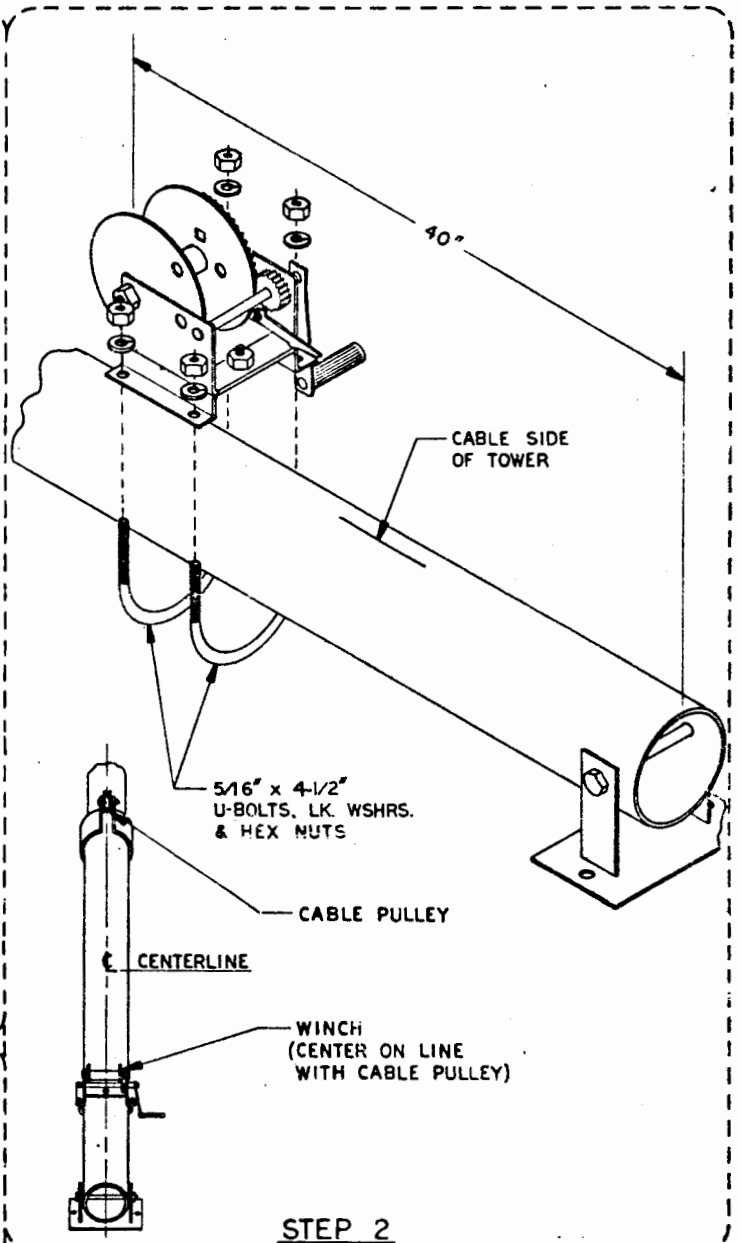


Wilson Electronics Corp.

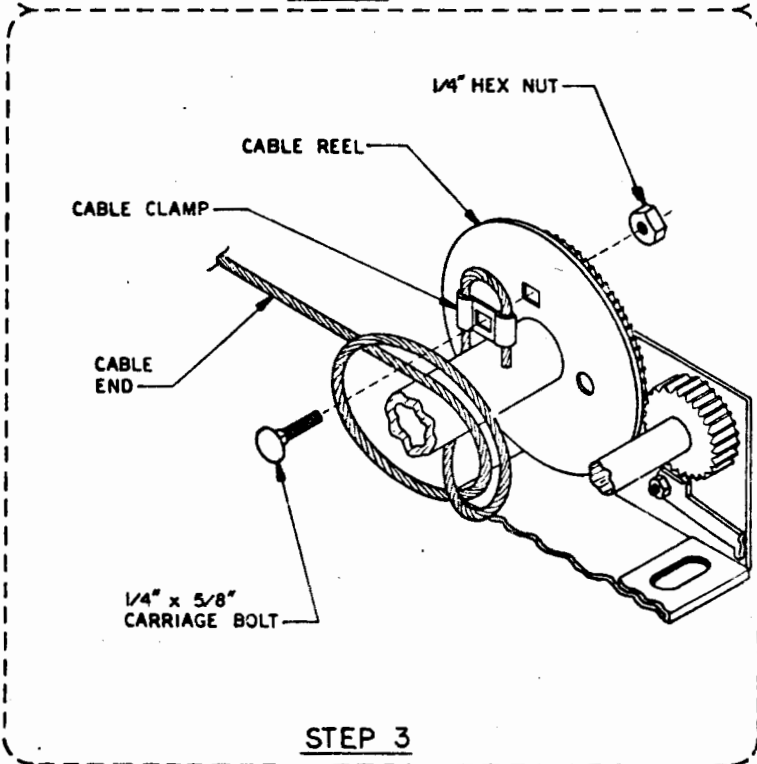
4238 SO. POLARIS AVENUE - LAS VEGAS, NEVADA 89103



STEP 1



STEP 2



STEP 3

STEP 1. Attach winch mounting plate to bottom of winch assembly with 3/8" hex bolts, lk. washers & hex nuts, making sure that the shorter bolt is used under the cable reel. (Note: It is important that the plate is mounted with the holes offset in the direction shown so that the winch handle will clear the plate.) Next mount the handle on the drive shaft with lock nut as shown.

STEP 2. Install winch with mounting plate onto tower using 5/16" x 4-1/2" U-bolts, lk. wshrs. & hex nuts as shown. Winch is to be mounted on the cable side of the tower with the top of the winch setting 40 inches from the bottom of the tower.

CAUTION: Do not overtighten large winch plate U-bolts as this could cause binding of the inner guide. Full compression of the lockwasher is all that is required.

STEP 3. Pull the loose end of the cable out of the tower by sliding out the inside section to obtain slack, the cable on the top of the pulley is the one that pulls out and attaches to the winch. Loop the cable around the cable reel in the direction shown forming a half hitch and secure the end with the cable clamp as shown. Wind cable onto the reel by turning handle in clockwise direction with ratchet lever in "off" position. (See winch Operating Instruction Sheet for additional information.)

STEP-BY-STEP INSTRUCTIONS FOR TT 45 WILSON TOWER

I) TOOLS REQUIRED:

- A. Tape measure
- B. Open-end adjustable wrench (6" or 8")
- C. Step ladder
- D. 1/2" Drill Bit
- E. 1/2" Hand Drill or equivalent
- F. Shovel
- G. Plumb Line (string with weighted point)
- H. Hammer
- I. Nails
- J. Plastic electrical tape
- K. Cement finishing tools

II) MISCELLANEOUS HARDWARE REQUIRED (Not supplied):

- A. 2-1/2" Carriage Bolts and Nuts long enough to go through the eaves of your house for the bracket.
- B. Enough concrete to pour a one and a half foot cube.(7-60LB. Bags Ready Mix)
- C. 1 Mast to mount antenna on top the rotor (1-1/2"x2' or 2"x2' depending on antenna).

III) INSTALLATION:

- A. Read instructions completely before starting.
- B. In choosing a location for your Wilson TT-45, remember that you will need at least 23' for the tower to be hinged up from the ground. This distance is measured from the edge of the roof eave, not the wall. Another 10' to 12' will be needed after the 2" steel mast is extended out, and the rotor and antenna are mounted.
- C. Included with the tower is a hinged swing-over base plate with two 1/2"x8" anchor bolts. After finding a location for the tower, drop a plumb line from the roof edge to the ground. Draw a line at this point parallel to the house. The edge of the tower will sit on this line. Measure 2-1/4" from the line (away from the building). This point is the Center Line of the tower. This Center Line is used to install the base plate. (See Figure A.).
- D. Dig a 1-1/2' square hole, 1-1/2' in depth. Use the center line of the tower to divide the square into two equal pieces (See figure B.). After

the concrete is poured and leveled, press the plate and bolts into the concrete, using the base plate as a template or guide for the bolts. Make sure there is at least one full nut's depth of threads after the bolts are installed into the concrete. (See figure Ca,Cb.)

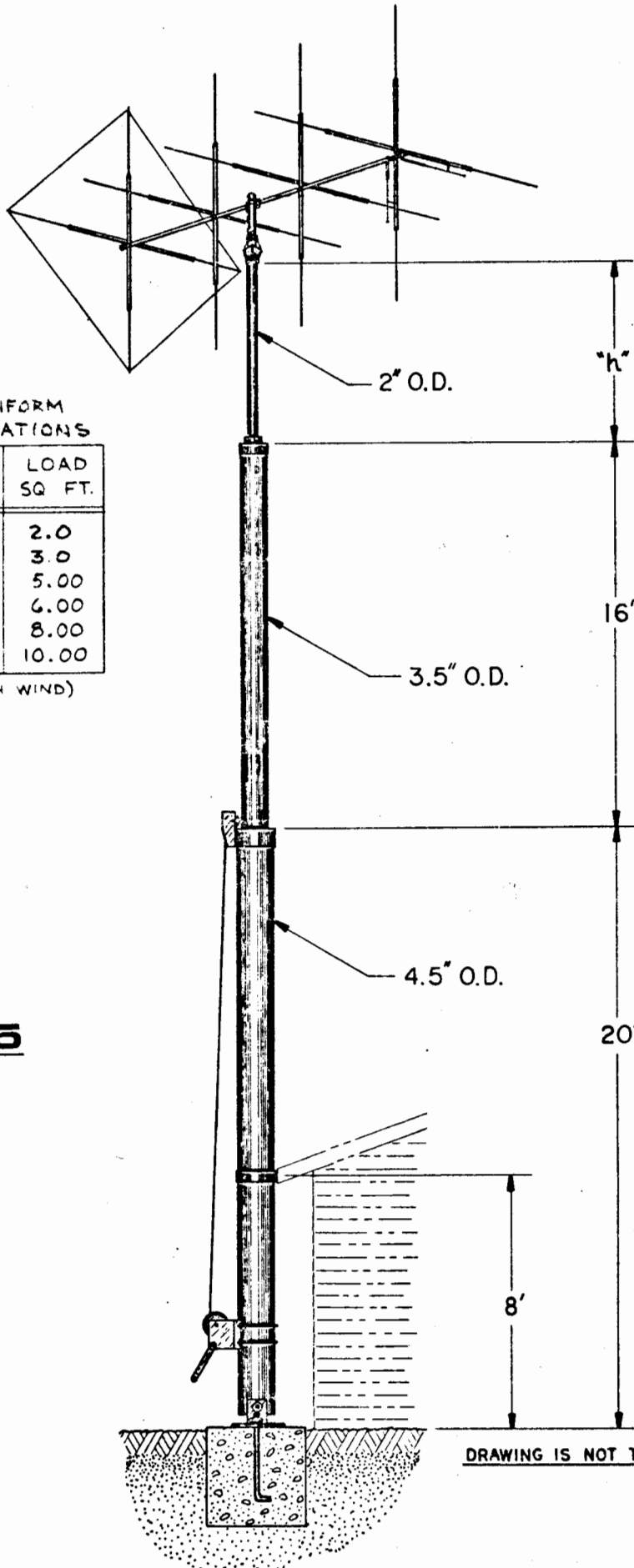
E. Let the concrete cure at least one week in hot weather, or two to three weeks in wet weather.

F. To install the tower, be sure to put the 1/2" x 6" bolt through the base plate when the tower raising winch is on the bottom (or ground side) of the tower (See figure D.). Be sure the 1/2" hinge bolt nut is not too tight, as this can cause binding. Required tension is approximately 1/4 turn past full compression of the lockwasher. Request the help of friends or neighbors to erect the tower, or swing it up using a cable over the top of the roof.

G. After the rotor is mounted on the extension mast, leave the mast inserted a minimum of 1' inside the tower (See figure D.) The last foot of the mast is painted red. This 2" mast can be pushed up when the tower is in the upright position. Now mount the antenna on top of the rotor, leaving enough extra coaxial feedline for the rotor to turn. Tape the leads just below the rotor. A good test would be to try it on the ground, to see if you have enough cable.

H. To install the wall bracket, raise the tower to a vertical position, place the bracket against the eaves, mark and drill the holes. Attach the 1/2" carriage bolts to secure the tower against the building. After cranking the tower till it is fully extended, back off the winch one full turn.

I. It is a good idea to padlock the winch to avoid operation by persons other than yourself. (Safety Feature.)



CONFORMS TO OR EXCEEDS UNIFORM BUILDING CODE SPECIFICATIONS

TOWER HEIGHT (FEET)	LENGTH "h" (FEET)	LOAD SQ. FT.
45	9	2.0
43	7	3.0
41	5	5.00
40	4	6.00
39	3	8.00
38	2	10.00

(CHART BASED ON 78 MPH WIND)

TT-45

DRAWING IS NOT TO SCALE

TOWER & BASEPLATE
CENTERLINE

	"X"
TT-45	2 1/4"
GT-46	1 3/4"
SST-64	2 1/4"

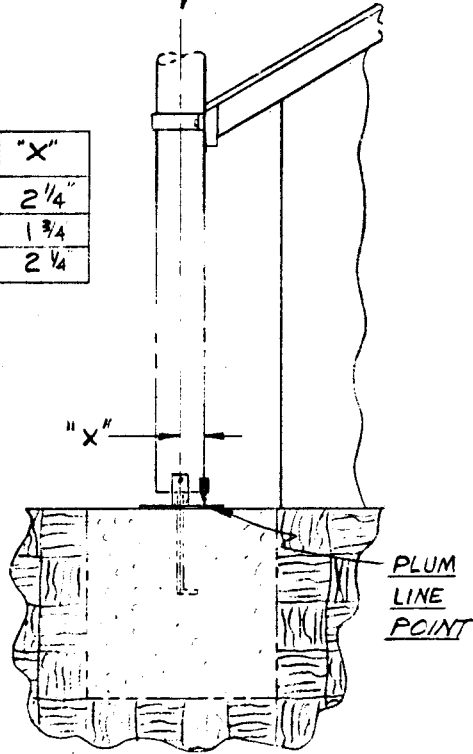


FIG. A

	A	B
TT-45	12"	6"
GT-46	12"	6"
SST-64	18"	9"

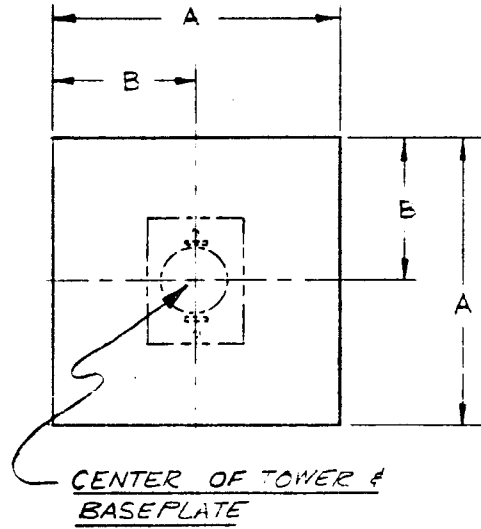


FIG. B

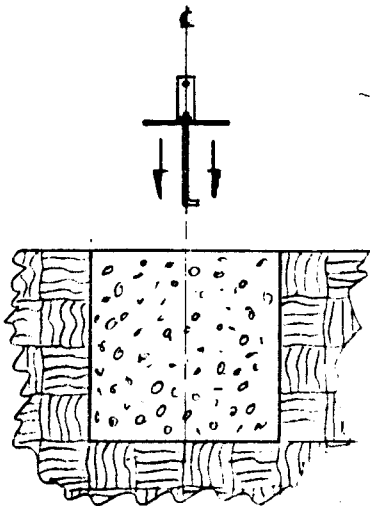


FIG. Ca

ONE FULL NUT
OF THREADS (MIN.)

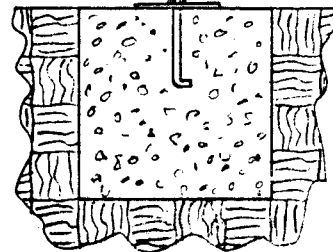
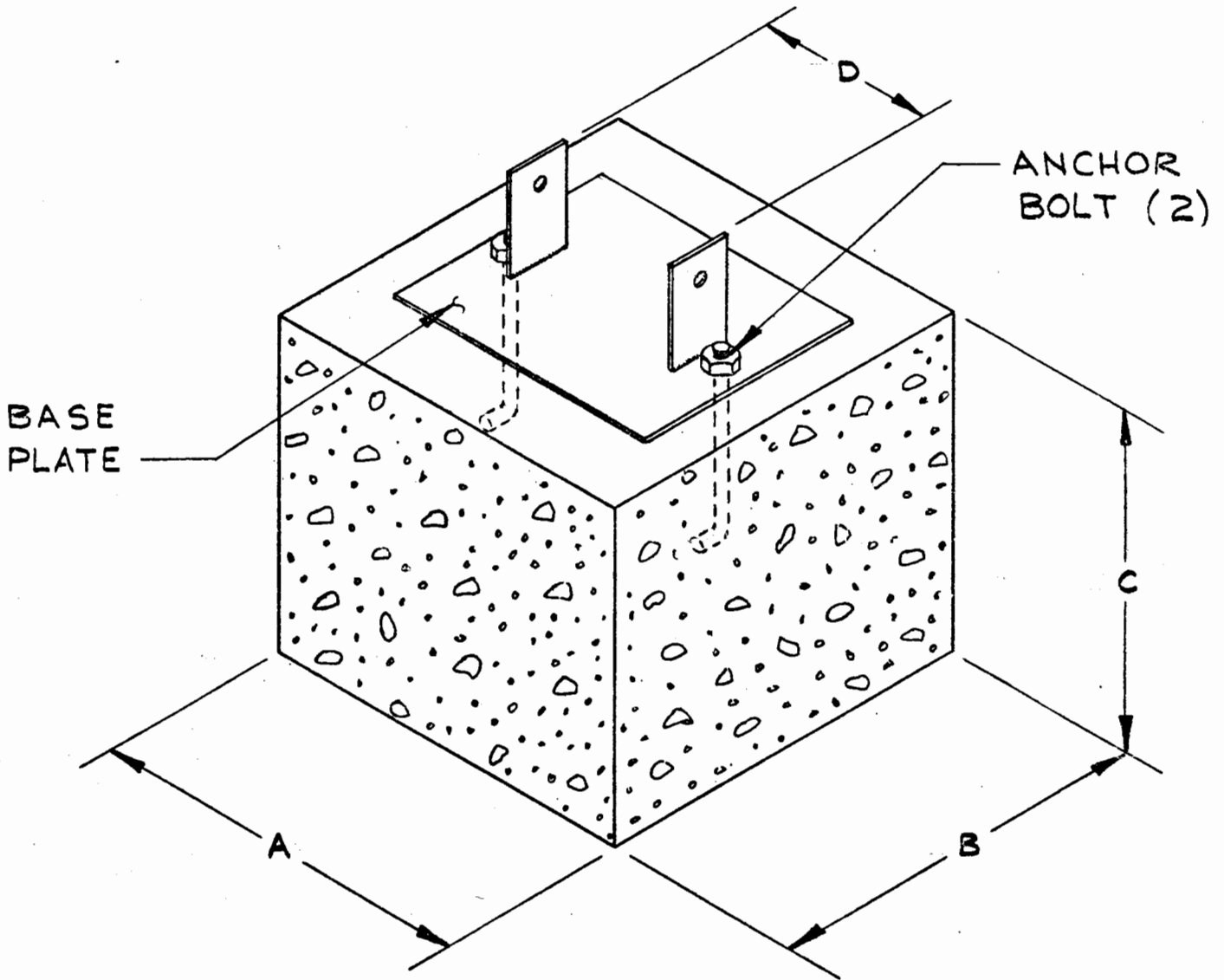


FIG. Cb

	A	B	C	D
TT-45	12"	12"	12"	4 1/2"
GT-46	12"	12"	12"	3 1/2"
SST-64	18"	18"	18"	4 1/2"



CONCRETE TOWER BASE

(FIGURE E)

J. Truelove 11-22-76

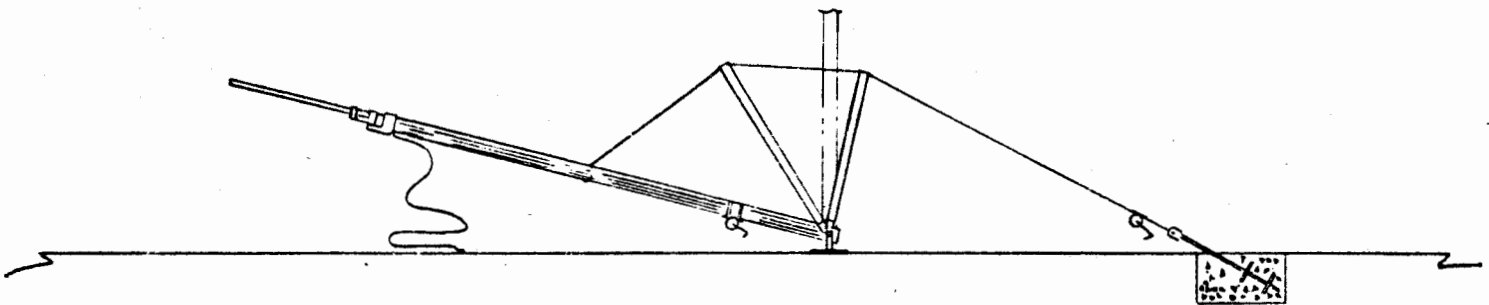
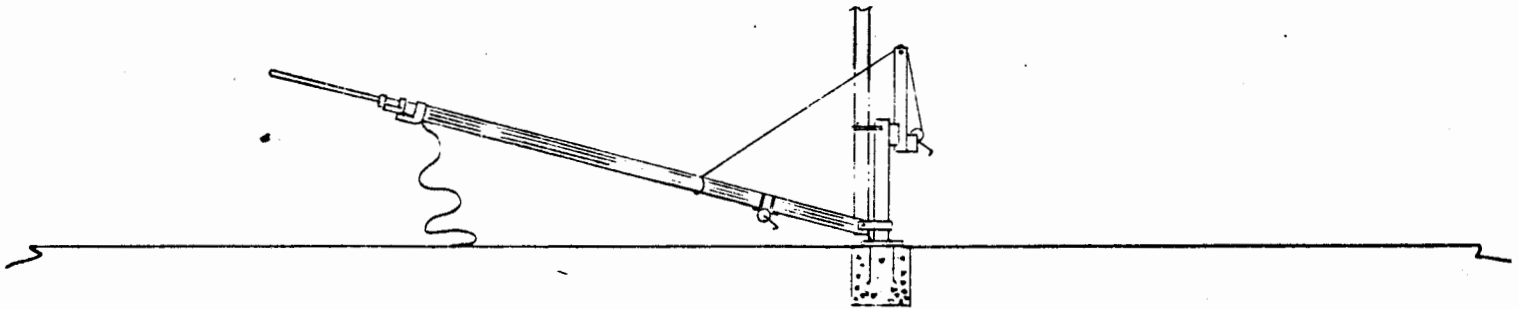
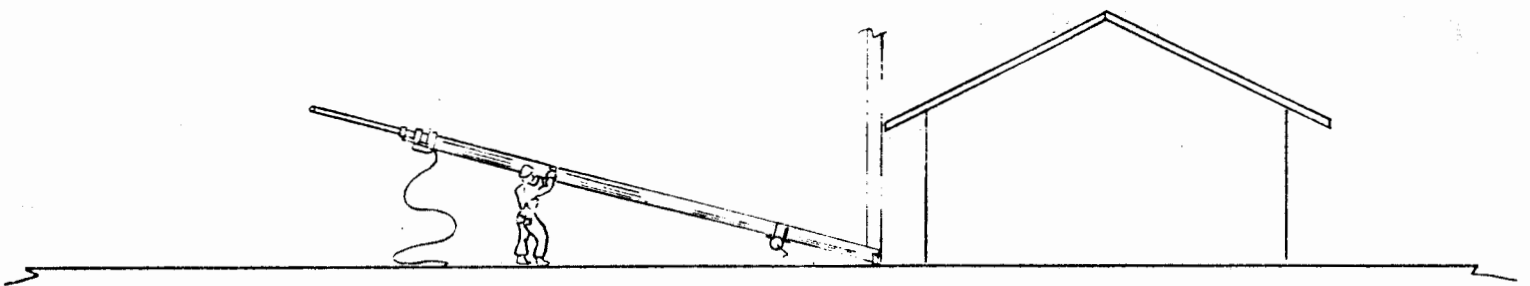
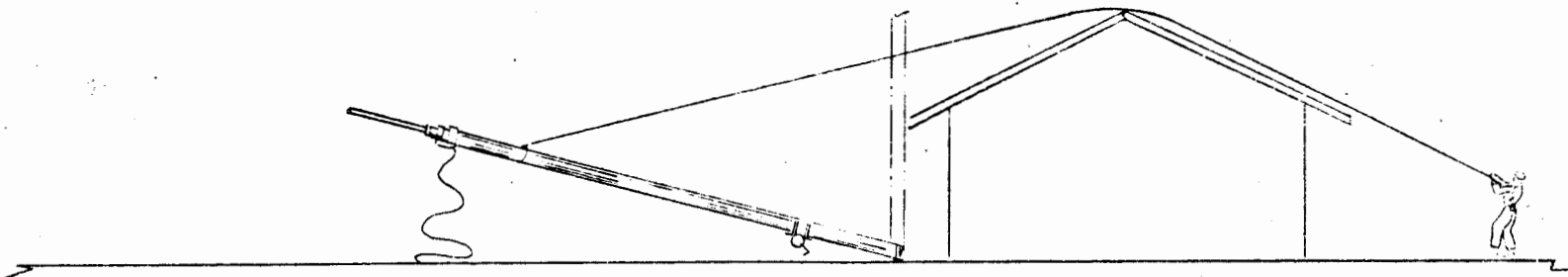


FIGURE D