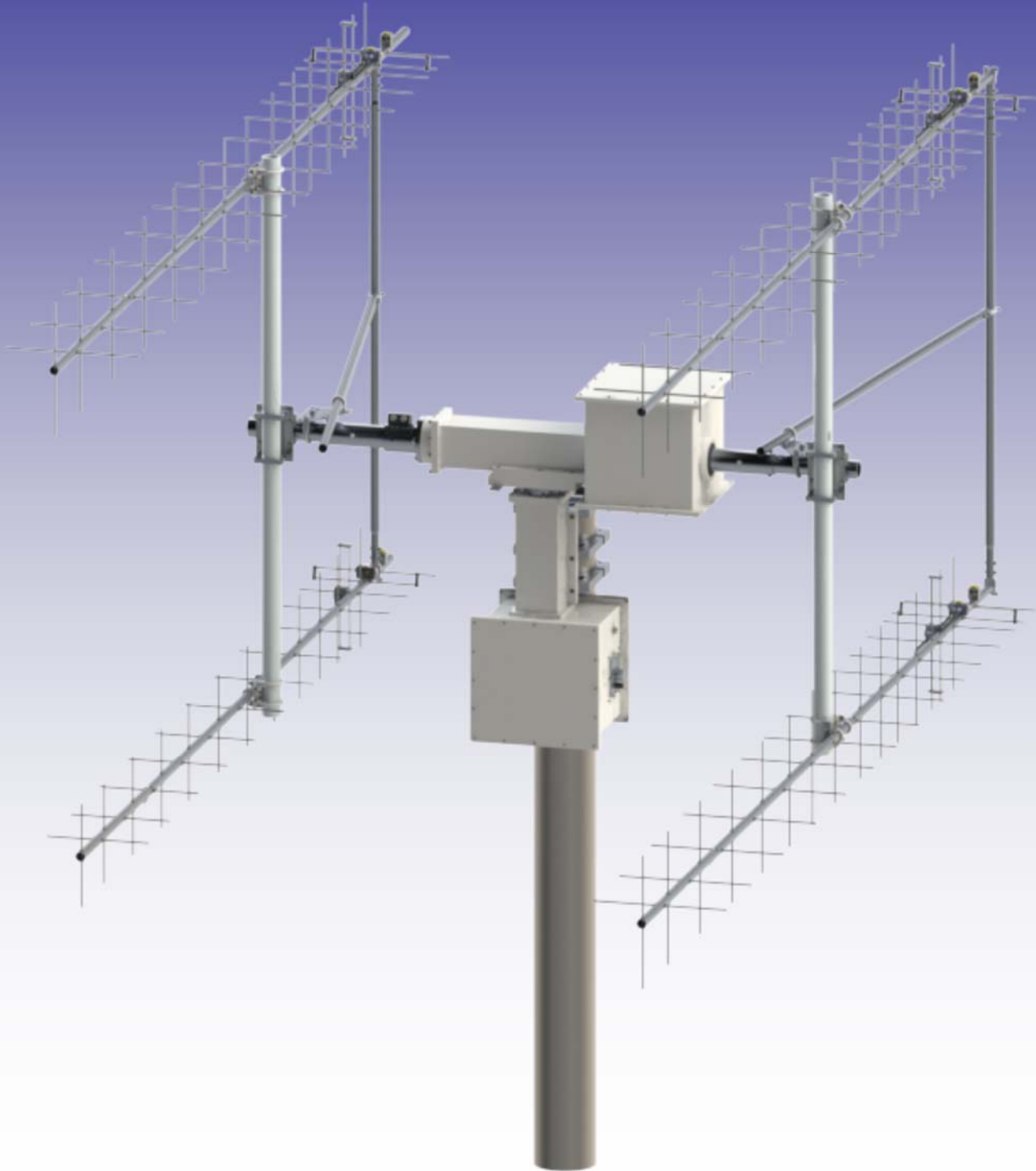




M2 Antenna Systems, Inc.

Model No: System Sample 1

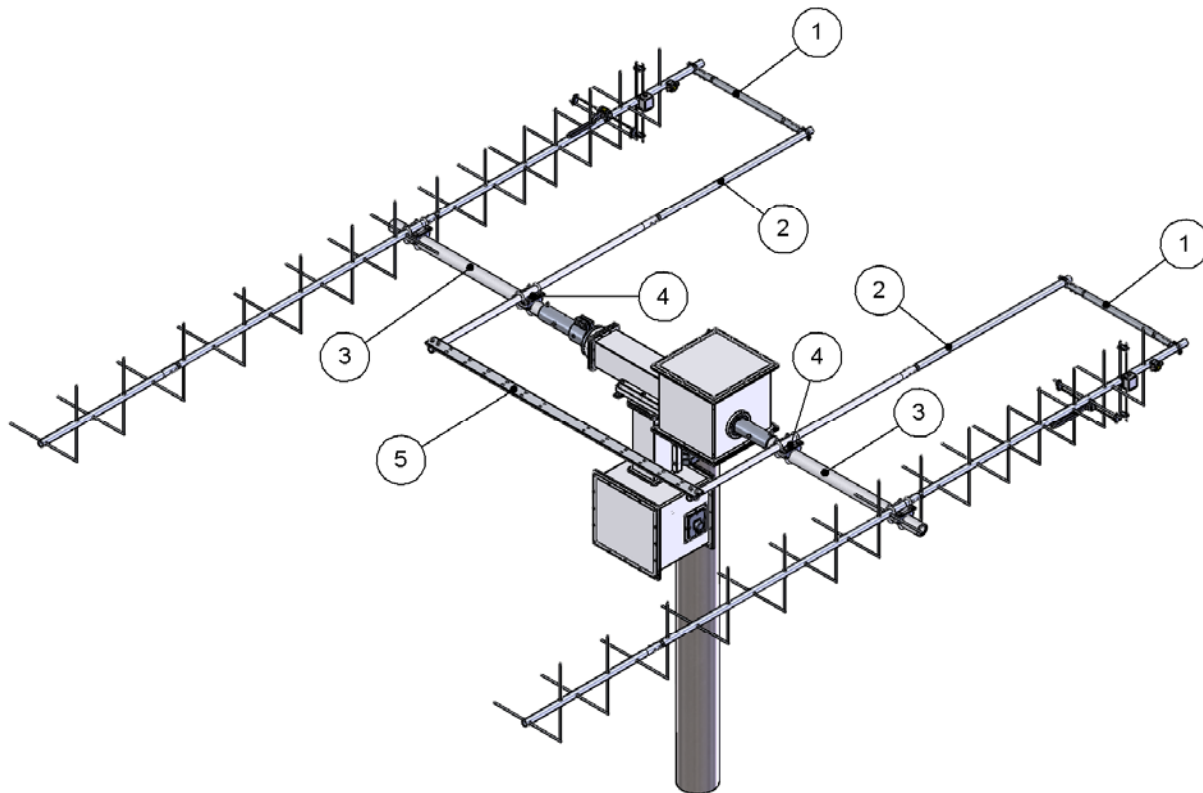
AE1000CBW , 400CP30A(X3), AND 450CP26



MODIFICATION DETAIL

This manual will help you through the altering of your existing system. Below is a diagram of all the parts that will not be needed for the requested modifications. The following pages will guide you through the proper installation of the additional antennas.

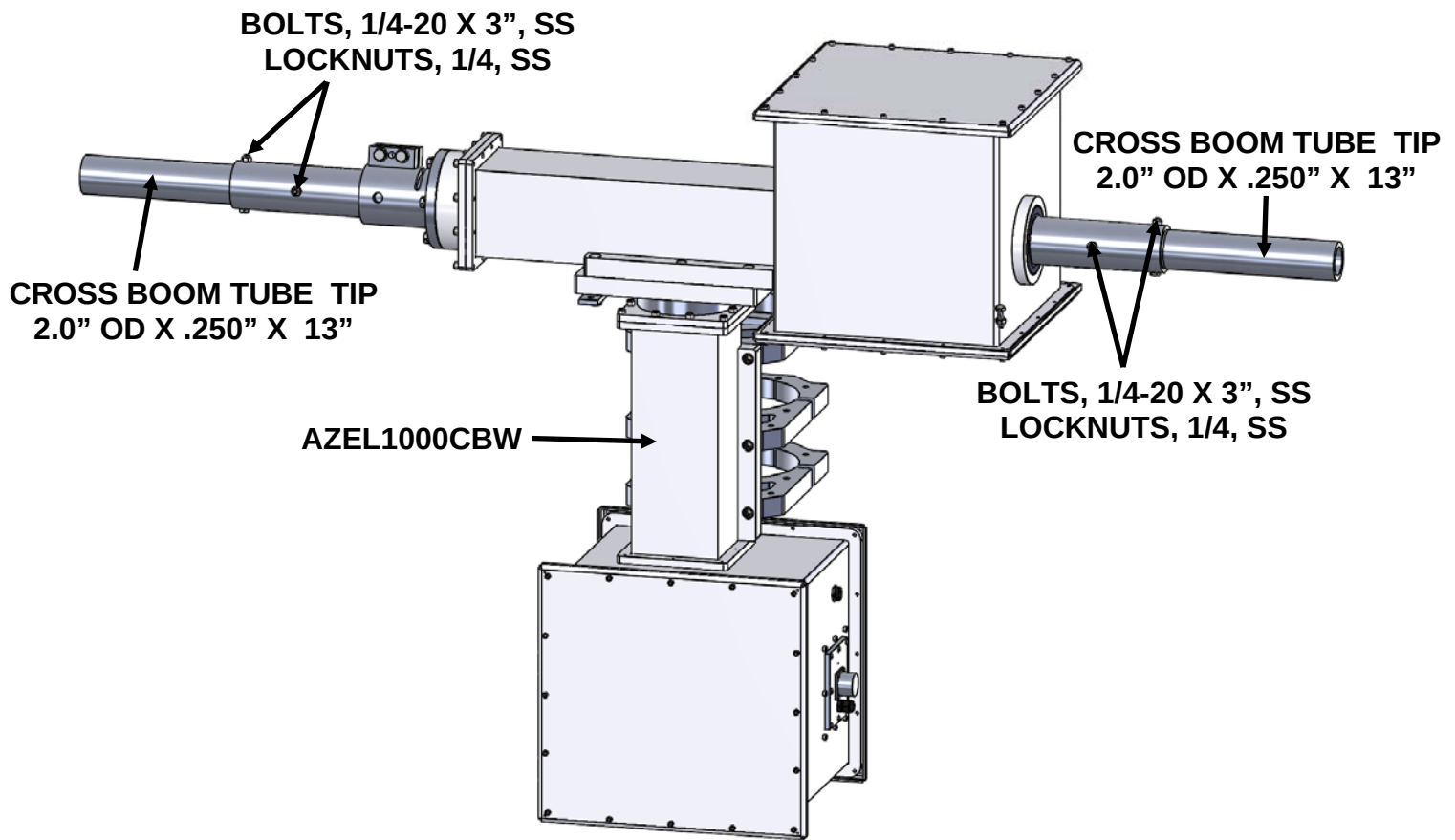
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L-BRACE TUBE #1	1" X 21.750 SBE	2
2	L-BRACE TUBE #2 and #3	1" X 36" SOE AND 1" X 48"	2
3	CROSS BOOM FIBERGLASS TUBE	2" X .025" X 36"	2
4	M2APT0019	BTM PLATE ASSY	2
5	RBC-400CP30X4-PD-PLATE	POWER DIVIDER BRIDGE	1



Remove all parts and associated hardware listed in table.

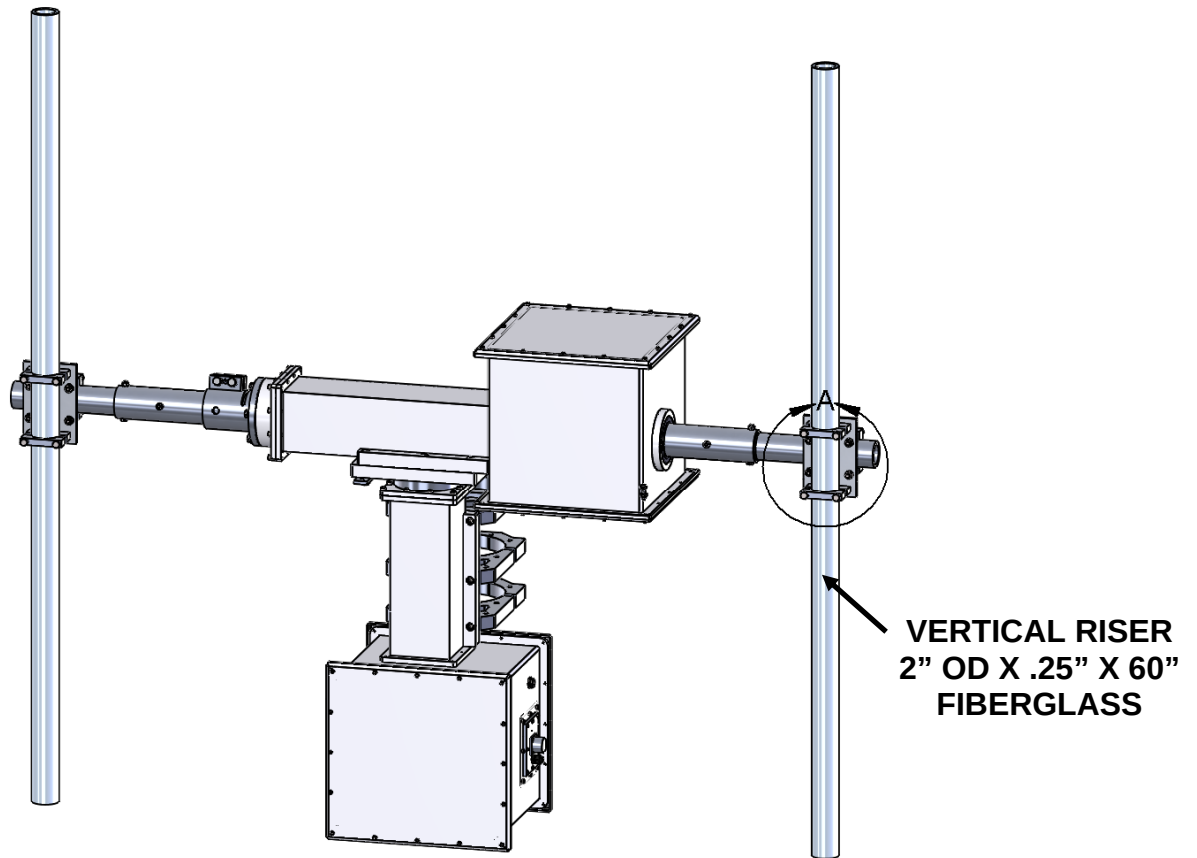
CROSSBOOM ASSEMBLY DETAIL

NOTE: Typically the cross boom tube tip holes are line drilled with the AZEL1000CBW system they are paired with. If the holes are slightly misaligned in your system, drilling the holes to a larger size on the cross boom tube tips may be required for proper installation.

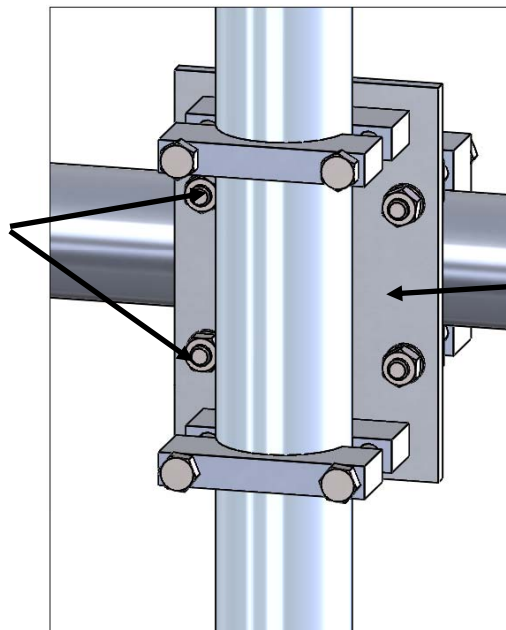


NOTE:
REFER TO AZEL1000CBW MANUAL FOR ASSEMBLY
INSTRUCTIONS.

VERTICAL RISER DETAILS



MACHINED CRADLE 2"
BOLT, 5/16-18 X 3 1/4", SS
LOCKWASHER, 5/16", SS
NUT, 5/16-18, SS

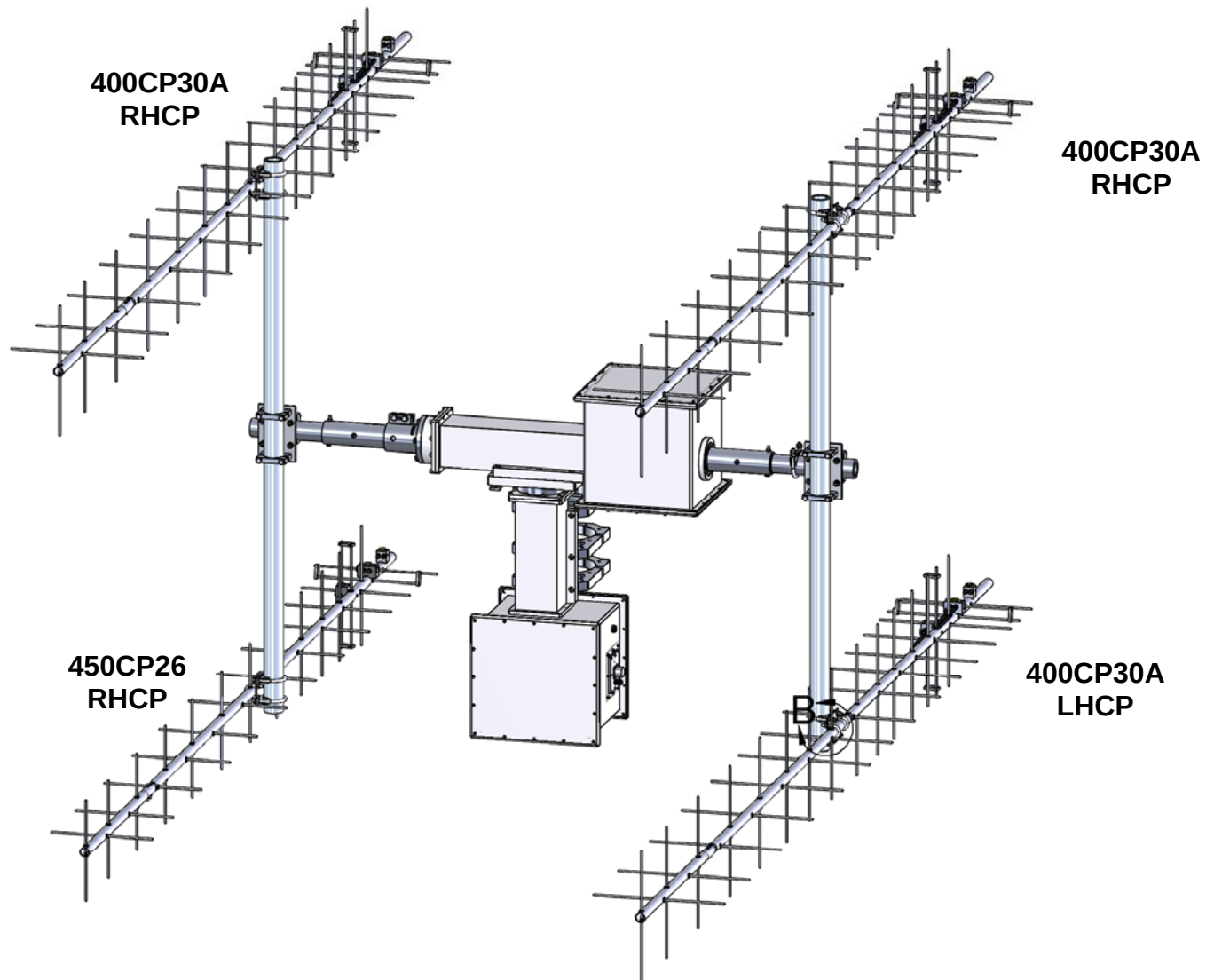


VERTICAL RISER PLATE
4" X 6" X 1/4"

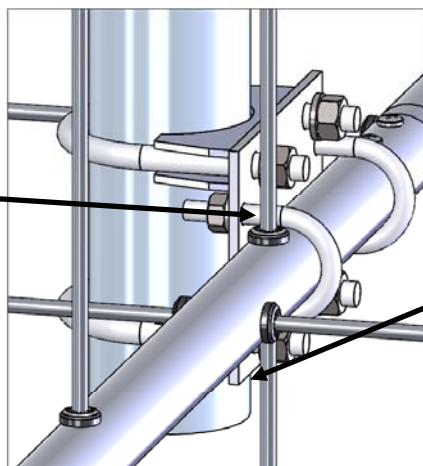
DETAIL A
SCALE 1 : 3

ANTENNA MOUNTING DETAILS

NOTE: An example of the positioning of the antennas is shown below. Actual placement of the un-phased antennas in the array are at the customers discretion.

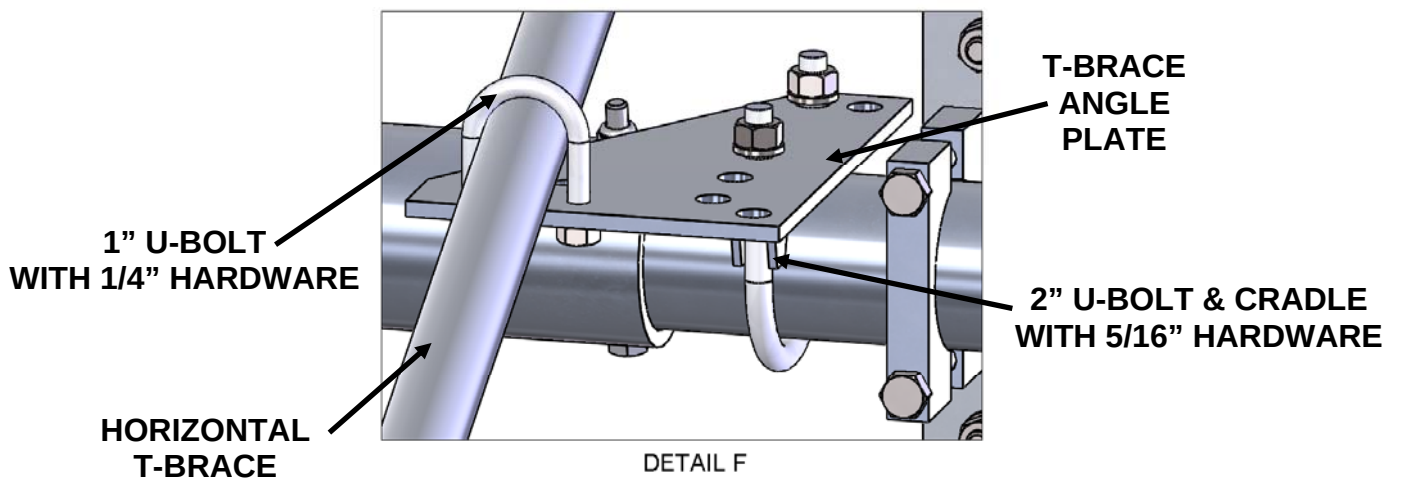
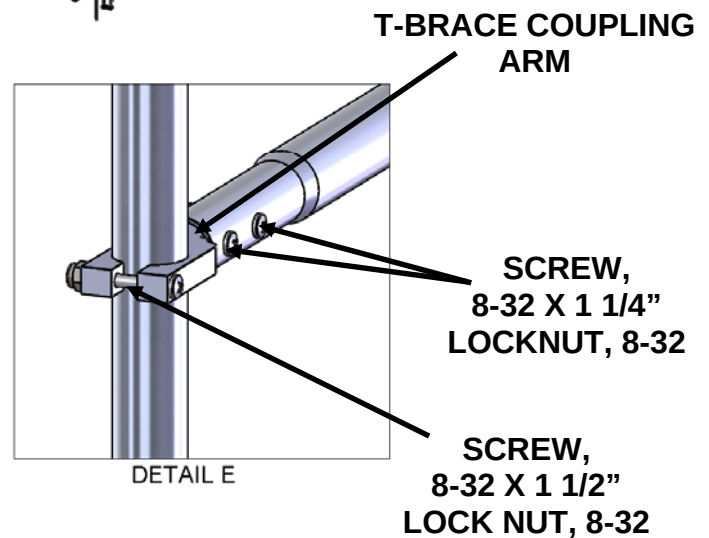
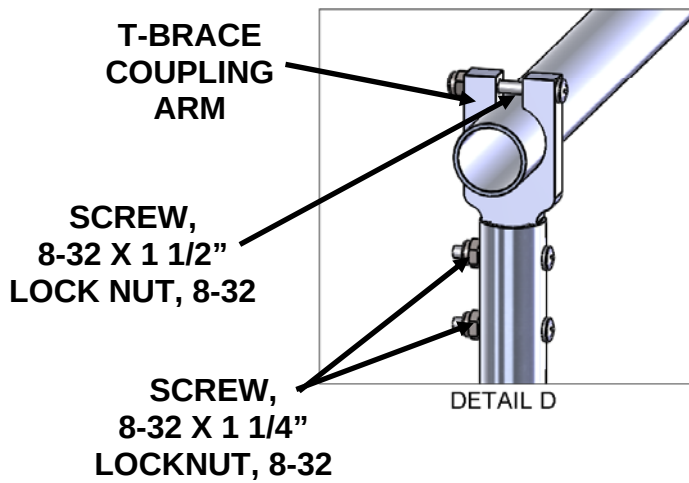
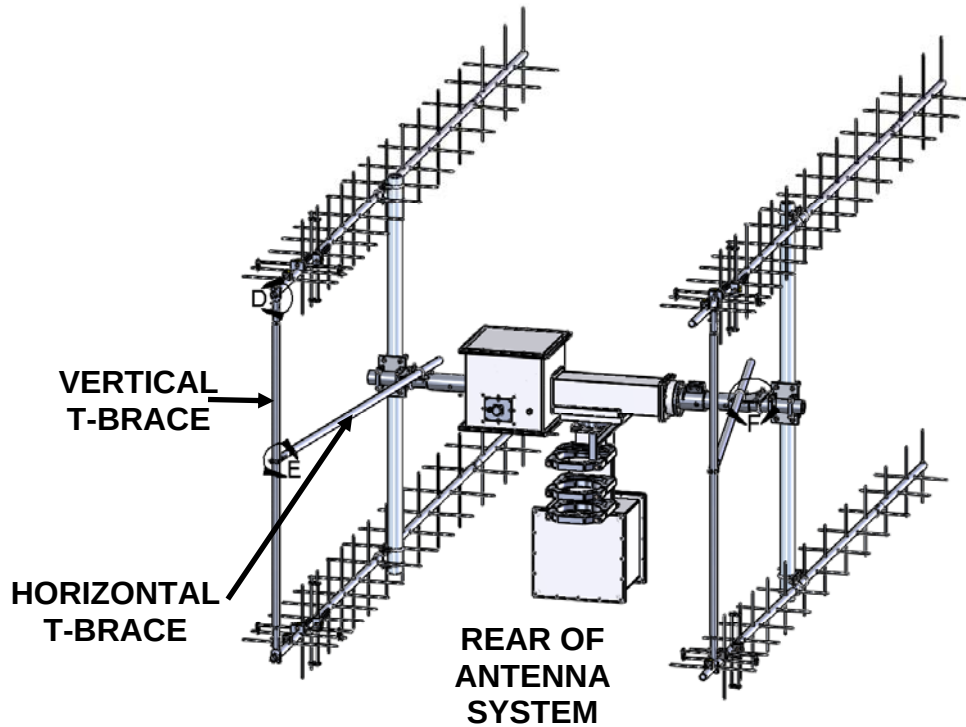


NOTE: MAKE SURE THE MOUNTING HARDWARE FOR THE ANTENNAS DOES NOT TOUCH THE VERTICAL AND HORIZONTAL ELEMENTS.



**MOUNT ANTENNAS APPROX
1" FROM END OF
VERTICAL RISERS
USE:
BOOM TO MAST PLATE
AND HARDWARE
SUPPLIED WITH ANTENNAS**

T-BRACE ASSEMBLY DETAILS



MODIFICATION PARTS & HARDWARE

<u>COMPLETE SYSTEM</u>	<u>QTY</u>
FG400CP30A, 395-405 MHZ RHCP	1
FG450CP26, 445-455 MHZ RHCP	1

<u>H-FRAME AND T-BRACE KIT</u>	
FIBERGLASS VERTICAL RISER, 2" X 0.25 X 60"	2
CROSS BOOM TUBE, 2" X .25" X 13", AL (M2ACB0025)	2
VERTICAL T-BRACE TUBE, 1" .058" X 52 3/4", AL SBE	2
HORIZONTAL T-BRACE TUBE, 1" X .058" X 60", AL SOE	2
MACHINED CRADLE, 2", AL (M2AMC0130)	16
U-BOLT AND CRADLE, 2"	2
U-BOLT, 1"	2
T-BRACE COUPLING ARM, AL (M2AMC000)	6
H-FRAME PLATE, 4" X 6" X 1/4", AL (M2APT0025)	2
T-BRACE ANGLE PLATE, 4-1/2" X 6" X 3/16", AL (M2AHF0005)	2
10" ZIP TIES	20
PENETROX OR ZINC PASTE (CUP).	1

<u>HARDWARE</u>	
BOLT, 5/16-18 X 3-1/4", S.S.	16
LOCK WASHER, 5/16", S.S.	20
NUT, 5/16-18, S.S.	20
BOLT, 1/4-20 X 3", S.S.	4
LOCK WASHER, 1/4", S.S.	4
LOCK NUT, 1/4-20, S.S.	4
NUT, 1/4-20, S.S.	4
SCREW, 8-32 X 1-1/2", S.S.	6
SCREW, 8-32 X 1-1/4", S.S.	12
LOCK NUT, 8-32, S.S.	18