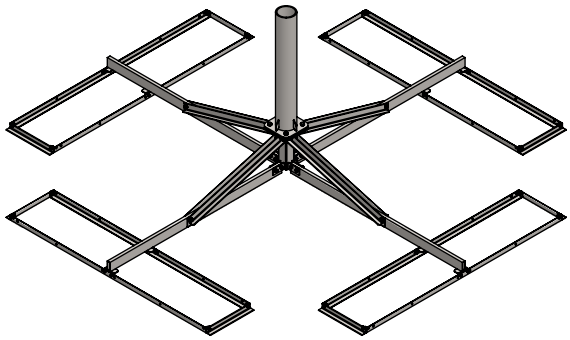
B6116-KA-(000)8X3 with Pad

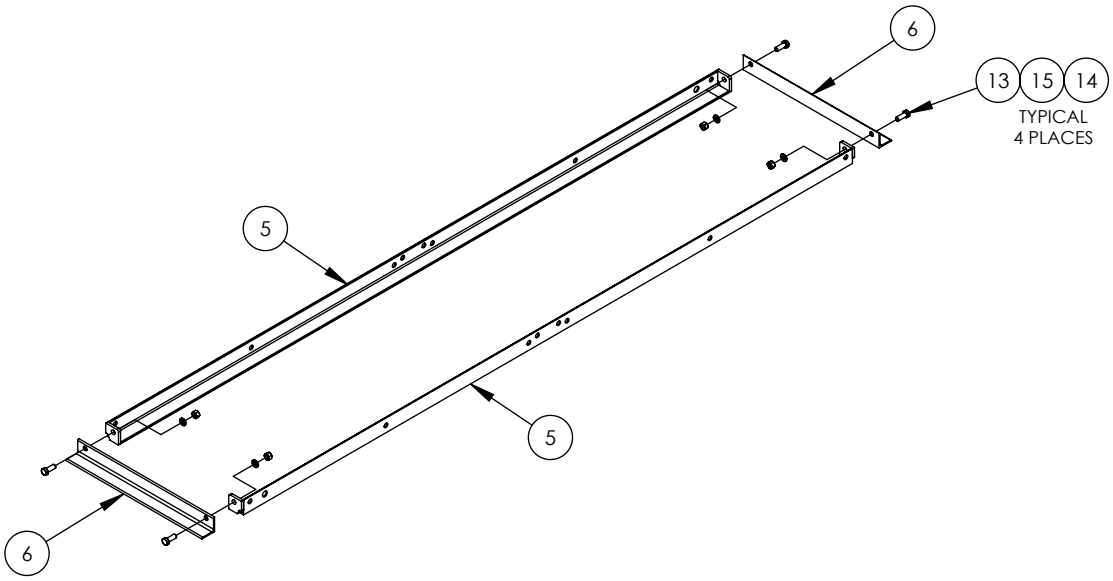


SYM	PART #	DESCRIPTION	QTY.
1	as required	MAST (O.D. &Length as req'd)	1
2	AB1510KAHD	B611KA BASE ASS'Y, HDG	1
3	AB1509HD	B611 BRACE 35.75"L, HDG	8
4	AB1508C1HD	B611 ARM ASS'Y, HDG	4
5	AB1119B(1.5L)HD	6'BALLAST PAD(1.5L),HDG	8
6	AB1425HD	16" SIDE PAD(1.5L), HDG	8
7	H1-0750-200	3/4"x2" BOLT GR.5, Z/P	4
8	H2-0750HN	3/4" NUT, Z/P	4
9	H4-0750LW	3/4" LOCKWASHER, Z/P	4

HDWE-MH7

SYM	PART #	DESCRIPTION	QTY.
10	H1-0500-225	1/2" x 2-1/4" BOLT GR.5, Z/P	16
11	H2-0500HN	1/2" NUT, Z/P	16
12	H4-0500LW	1/2" LOCKWASHER, Z/P	16
13	H1-0375-100	3/8" x 1" BOLT GR.5, Z/P	32
14	H2-0375HN	3/8" NUT, Z/P	32
15	H4-0375LW	3/8" LOCKWASHER, Z/P	32
		1/8" RUBBER PAD 16"x77"	4
		PALLET	1

HDWE-BT QTY:2



ASSEMBLE FOUR BALLAST TRAYS (ONE SHOWN ABOVE). EACH BALLAST TRAY CONSISTS OF TWO 6' BALLAST ANGLES(#5) AND TWO SIDE PADS(#6). ASSEMBLE EACH TRAY USING FOUR 3/8"x1" BOLTS (#13), NUTS(#14) AND LOCKWASHERS(#15)

BAIRD MOUNTING SYSTEMS

WWW.BAIRDMOUNTS.COM

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

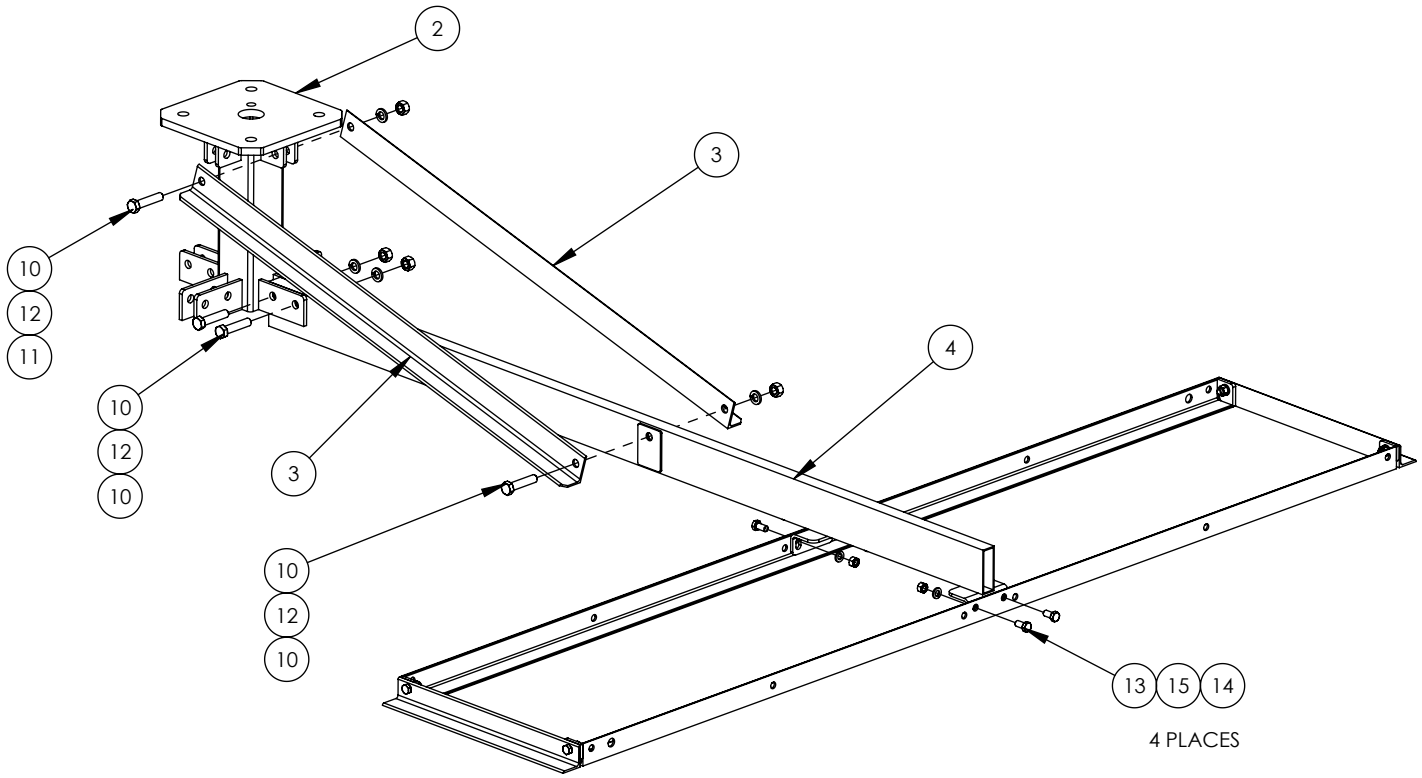
DO NOT SCALE DRAWING

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

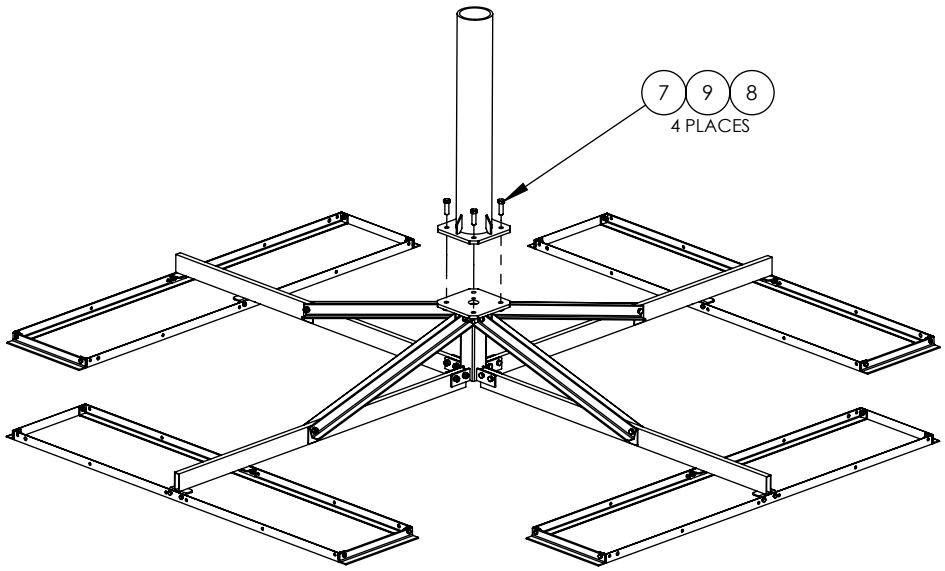
TITLE:
B6116-KA with Pad Assembly

DRAWN BY	DATE
JK	04/19/19
MATERIAL	FINISH
-	-
DWG. PURPOSE	SHEET / SCALE
INST	1 / -
PART. NO.	
-	
DWG. NO.	
B6116-KA-(000)8X(0)-R INST	

REV. 06/2023



ATTACH THE ARM(#4) AND BRACES(#3) TO THE BASE(#2). NEXT, ATTACH THE ARM TO A PREVIOUSLY ASSEMBLED BALLAST TRAY. REPEAT THIS PROCESS FOR THE FOUR LEGS.



ATTACH THE MAST TO THE BASE USING FOUR 3/4"x2" BOLTS, LOCKWASHERS & NUTS

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ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

DO NOT SCALE DRAWING

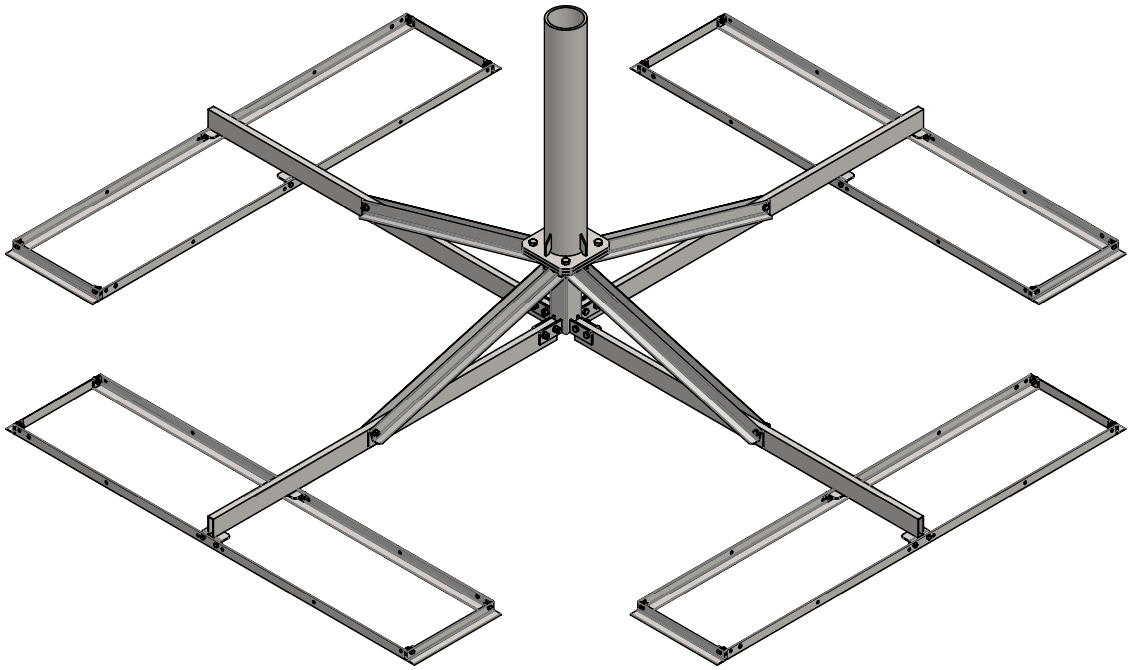
BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

TITLE:
B6116-KA with Pad Assembly

DRAWN BY: JK	DATE: 10/05/18
MATERIAL: -	FINISH: -
DWG. PURPOSE: INST	SHEET: 2 / SCALE: -
PART. NO.: -	
DWG. NO.: B6116-KA-(000)8X(0)-R INST	

REV. 06/2023

PART NO.	MAST DIAMETER	WEIGHT
B6116-KA-5568X3	5.56"OD(S80)	275 lbs.



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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

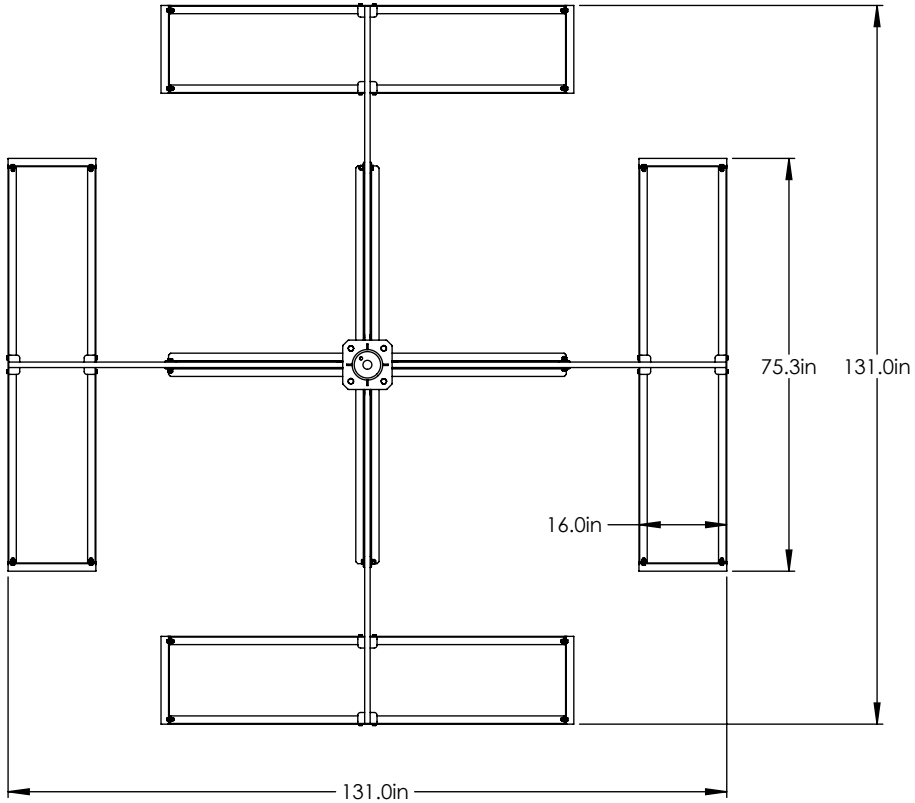
DO NOT SCALE DRAWING

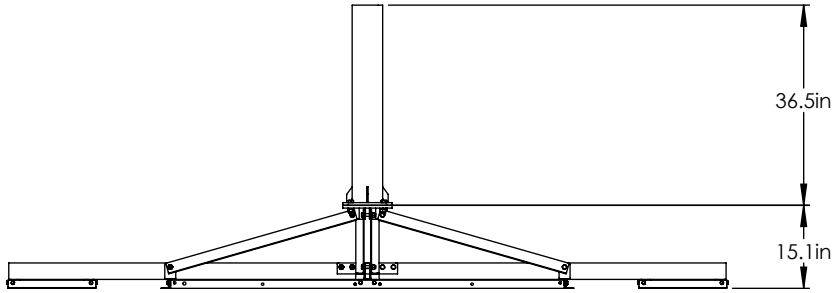
BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

DESCRIPTION:
B6-116 KA MOUNT WITH 3' MAST

DRAWN BY: JK	DATE: 02/28/14	
MATERIAL: STEEL	FINISH: HDG	
DWG. PURPOSE: CUSTOMER	SHEET: 1OF2	SCALE: -
PART. NO.: SEE TABLE		
DWG. NO.: B6116-KA-(000)8X3		

REV. 08/22





BAIRD MOUNTING SYSTEMS

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

DO NOT SCALE DRAWING

BAIRD MOUNTING SYSTEMS
WATERLOO, IA 50703
PHONE: 319-233-3561
SALES@BAIRDMOUNTS.COM

DESCRIPTION:
B6-116 KA MOUNT WITH 3' MAST

DRAWN BY: JK	DATE: 02/28/14	
MATERIAL: STEEL	FINISH: HDG	
DWG. PURPOSE: CUSTOMER	SHEET: 2OF2	SCALE: -
PART. NO.: SEE TABLE-SHEET 1		
DWG. NO.: B6116-KA-(000)8X3		

REV. 08/22

B6-116 KA Angular Deflection

BAIRD MOUNTING SYSTEMS
BAIRD B6-116 KA MOUNT w/ 1.8M (6 FT) ANTENNA

Test Date and Location:

July 2013; Baird Mounting Systems testing facility, Waterloo, IA

Requirement:

To determine Total Angular Deflection: SQRT (Az2 + El2) at highest torsion loading conditions.

Testing Details:

Baird's testing procedures were designed to simulate the real world effects of a 1.8M (6 ft) antenna on the B6-116 KA non-penetrating mount. A stationary reference device with four (4) gauges was installed to measure total angular deflection of the B6-116 KA mount at loads simulating various wind speeds.

*B6-116 KA non-penetrating mount with four (4) gauges set to collect measurements for total angular deflection.

B6-116 KA Angular Deflection

Baird B6-116 KA Non-Penetrating Mount
1.8M (6 ft) Antenna

WIND MPH	LOAD LBS	TORQUE FT LBS	AZ INCHES	AZ DEGREES	EL INCHES	EL DEGREES	TOTAL ANGULAR DEFLECTION
30	45	79	0.010	0.017	0.008	0.014	0.023
35	61	107	0.016	0.028	0.011	0.020	0.034
40	79	139	0.025	0.043	0.014	0.025	0.050
45	100	176	0.030	0.052	0.017	0.031	0.060
50	124	218	0.038	0.066	0.020	0.036	0.075
60	178	313	0.063	0.109	0.030	0.054	0.122
75	279	491	0.105	0.182	0.053	0.096	0.205
100	495	871	0.197	0.341	0.098	0.177	0.384

Results from Post Max Load Test (Survival Test)

Baird B6-116 KA Non-Penetrating Mount
1.8M (6 ft) Antenna

WIND MPH	LOAD LBS	AZ INCHES	AZ DEGREES	EL INCHES	EL DEGREES	TOTAL ANGULAR DEFLECTION
131	2231	0.000	0.000	0.015	0.027	0.027

***Angular Deflection Test (Operational Test)** measures total angular deflection while the loads are being applied to the B6-116 KA mount.

***Post Max Load Test (Survival Test)** measures total angular deflection after the 131 mph (2,231 lbs.) load was removed from the B6-116 KA mount to confirm no permanent bending or structural damage has taken place.