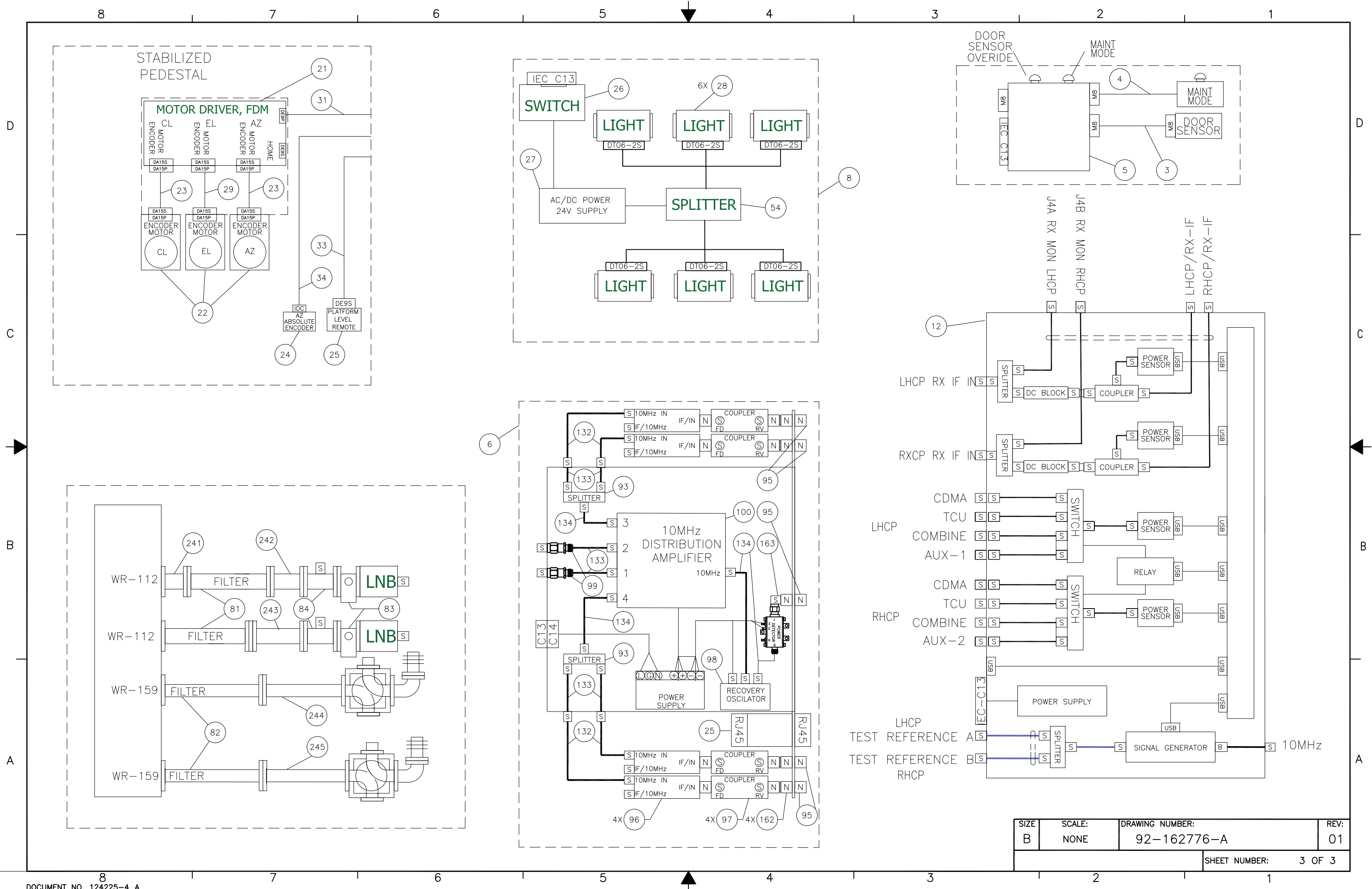




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MOTOR DRIVER, FDM

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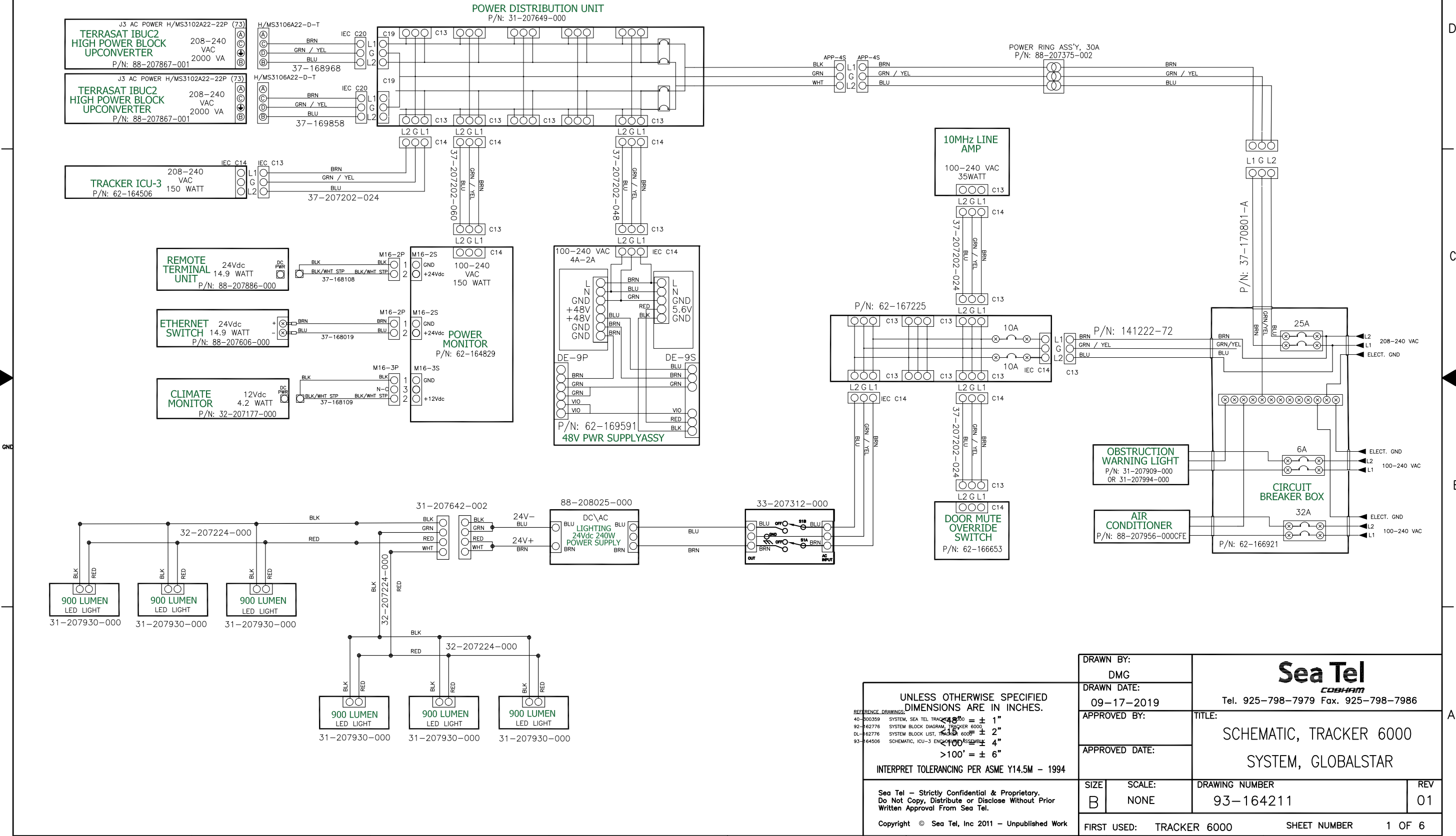
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REVISION HISTORY				
REV	ECO#	DATE	DESCRIPTION	BY
01	N-A	03-02-2020	PRELIMINARY	JWM



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

REFERENCE DRAWINGS:

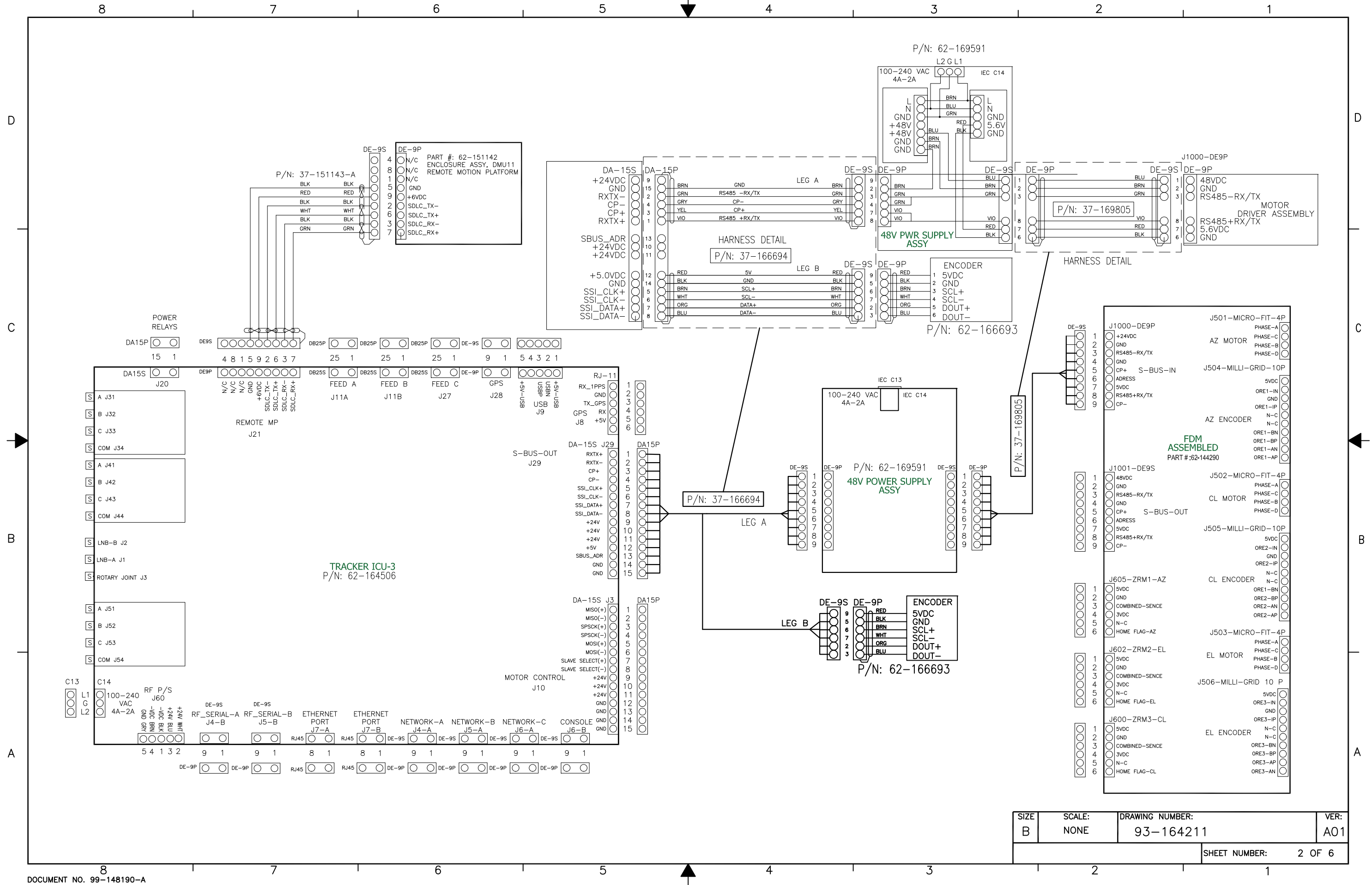
40-300359	SYSTEM, SEA TEL TRACKER 6000
92-162776	SYSTEM BLOCK DIAGRAM, TRACKER 6000
DL-162776	SYSTEM BLOCK LIST, TRACKER 6000
93-164506	SCHEMATIC, ICU-3 ENCLOSURE

INTERPRET TOLERANCING PER ASME Y14.5M - 1994

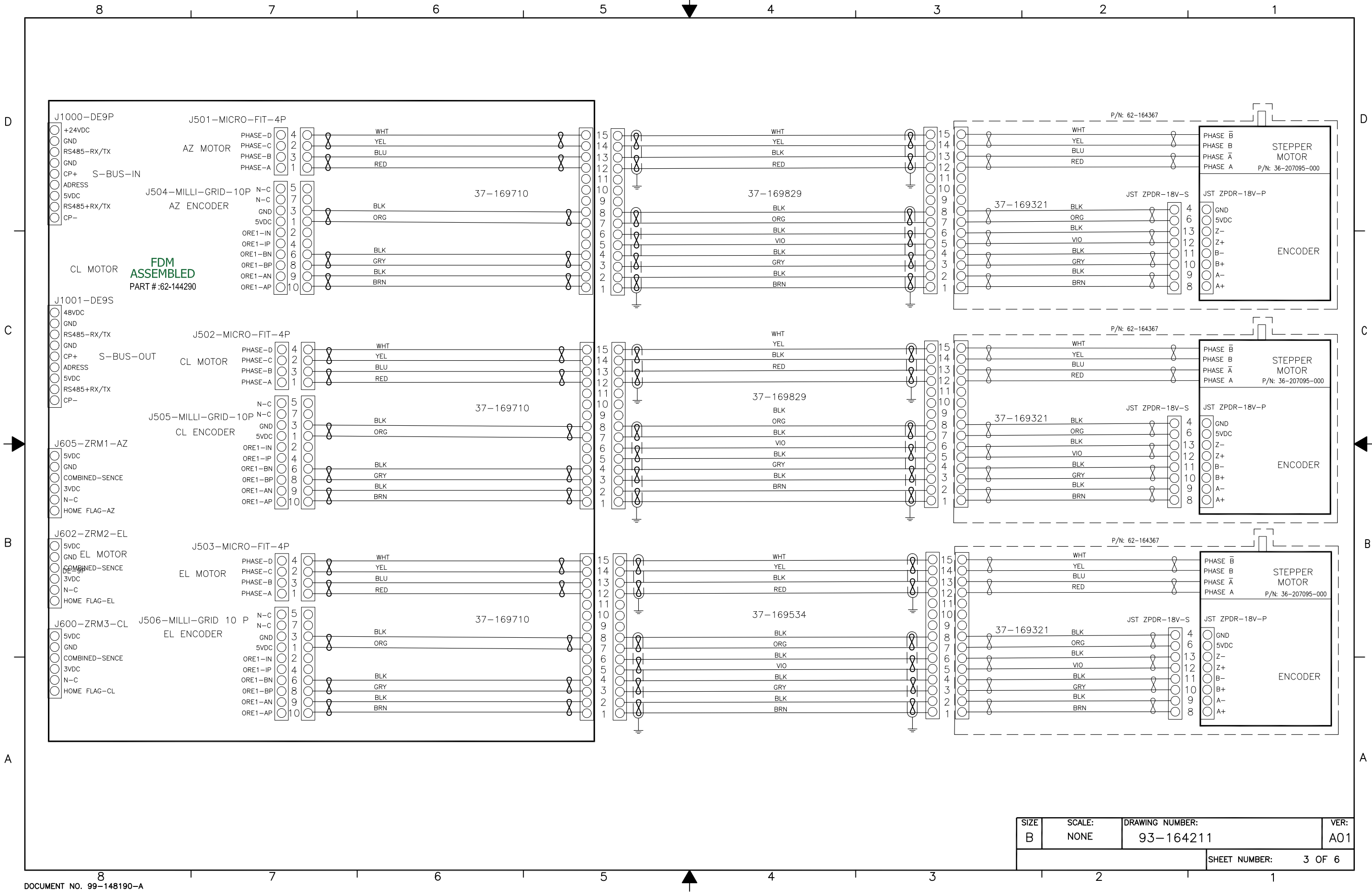
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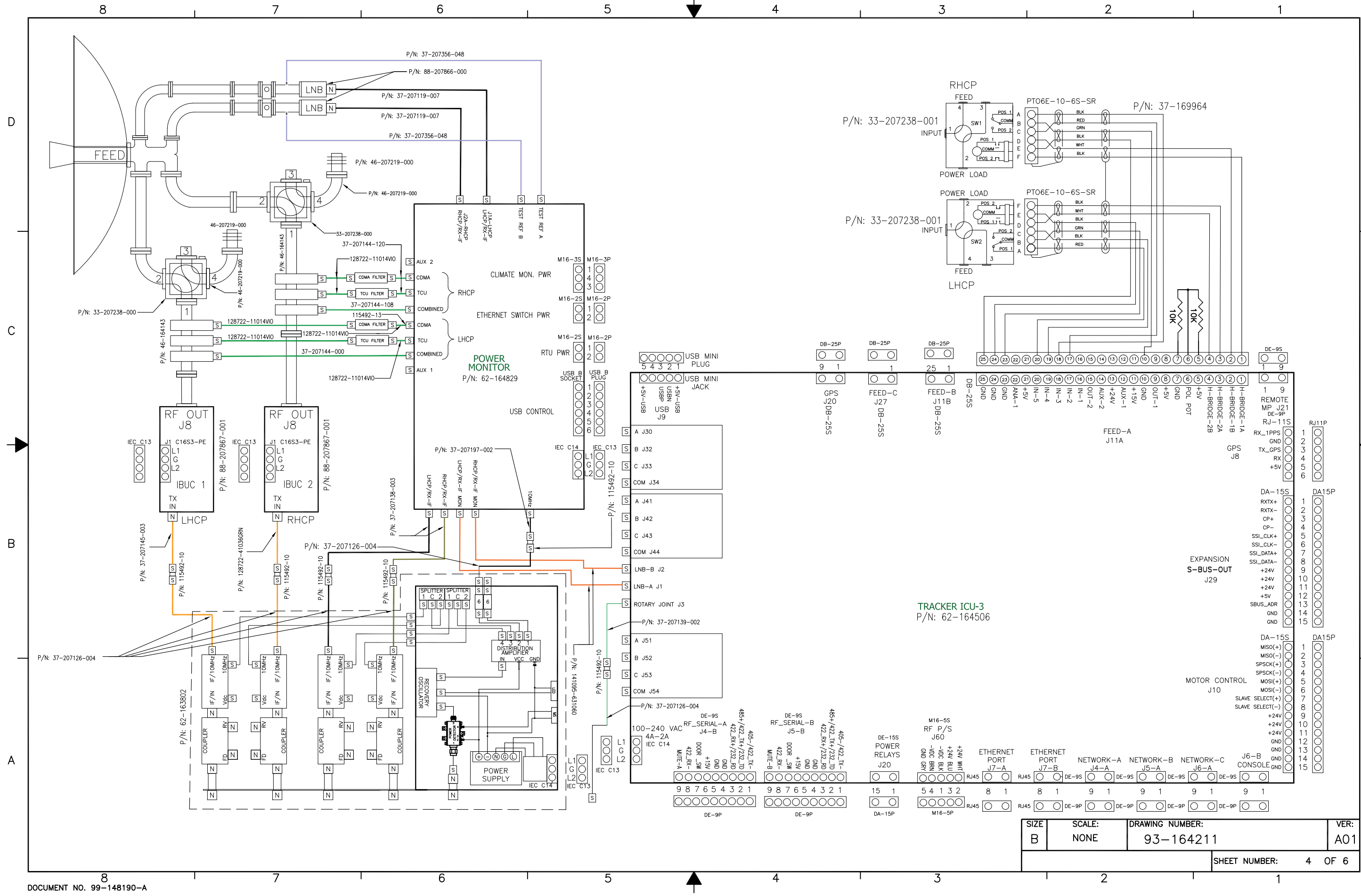
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DRAWN BY: DMG		Sea Tel COBHAM Tel. 925-798-7979 Fax. 925-798-7986	
DRAWN DATE: 09-17-2019			
APPROVED BY:		TITLE: SCHEMATIC, TRACKER 6000 SYSTEM, GLOBALSTAR	
APPROVED DATE:			
SIZE B	SCALE: NONE	DRAWING NUMBER 93-164211	REV 01
FIRST USED: TRACKER 6000		SHEET NUMBER 1 OF 6	

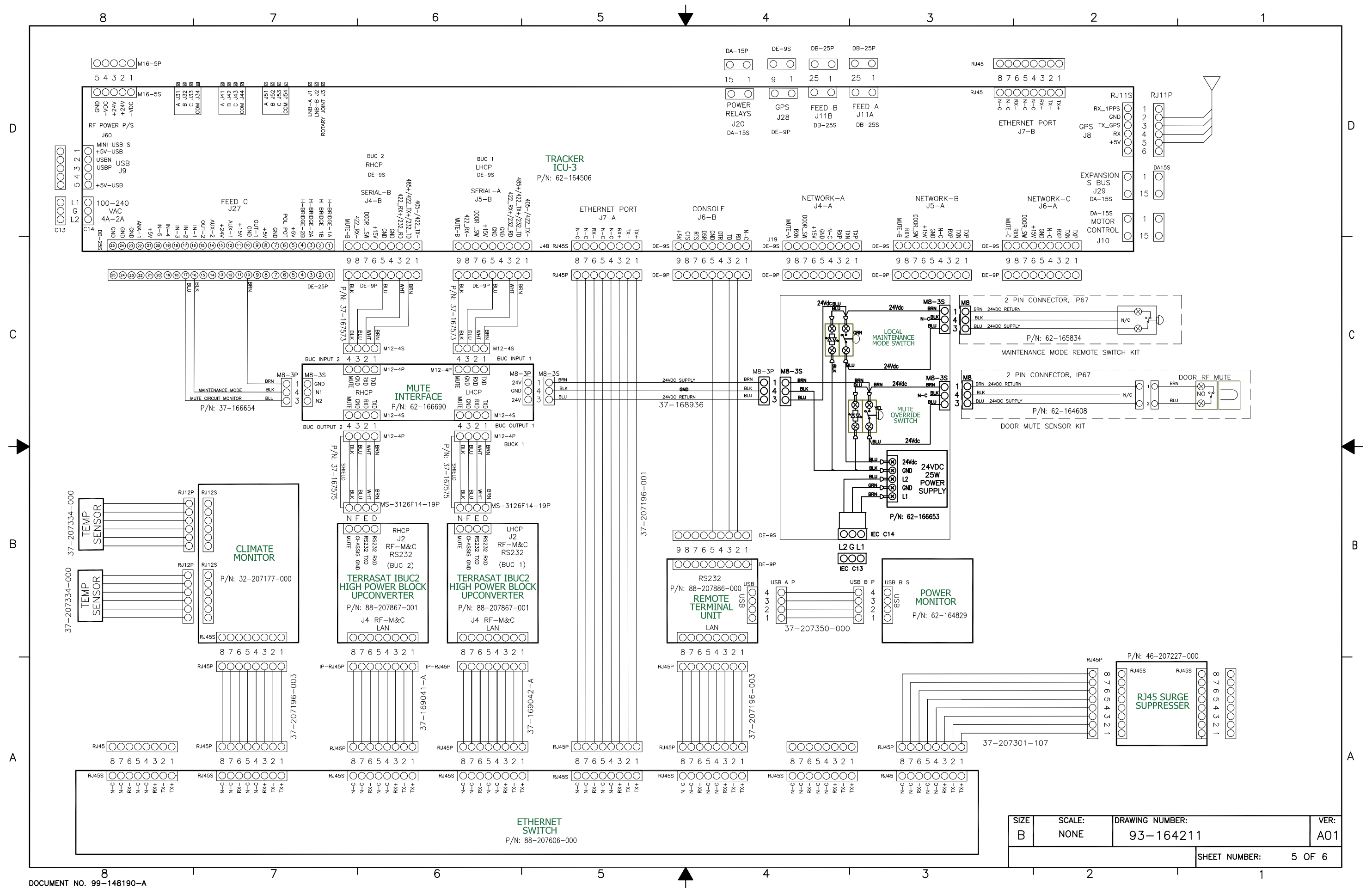


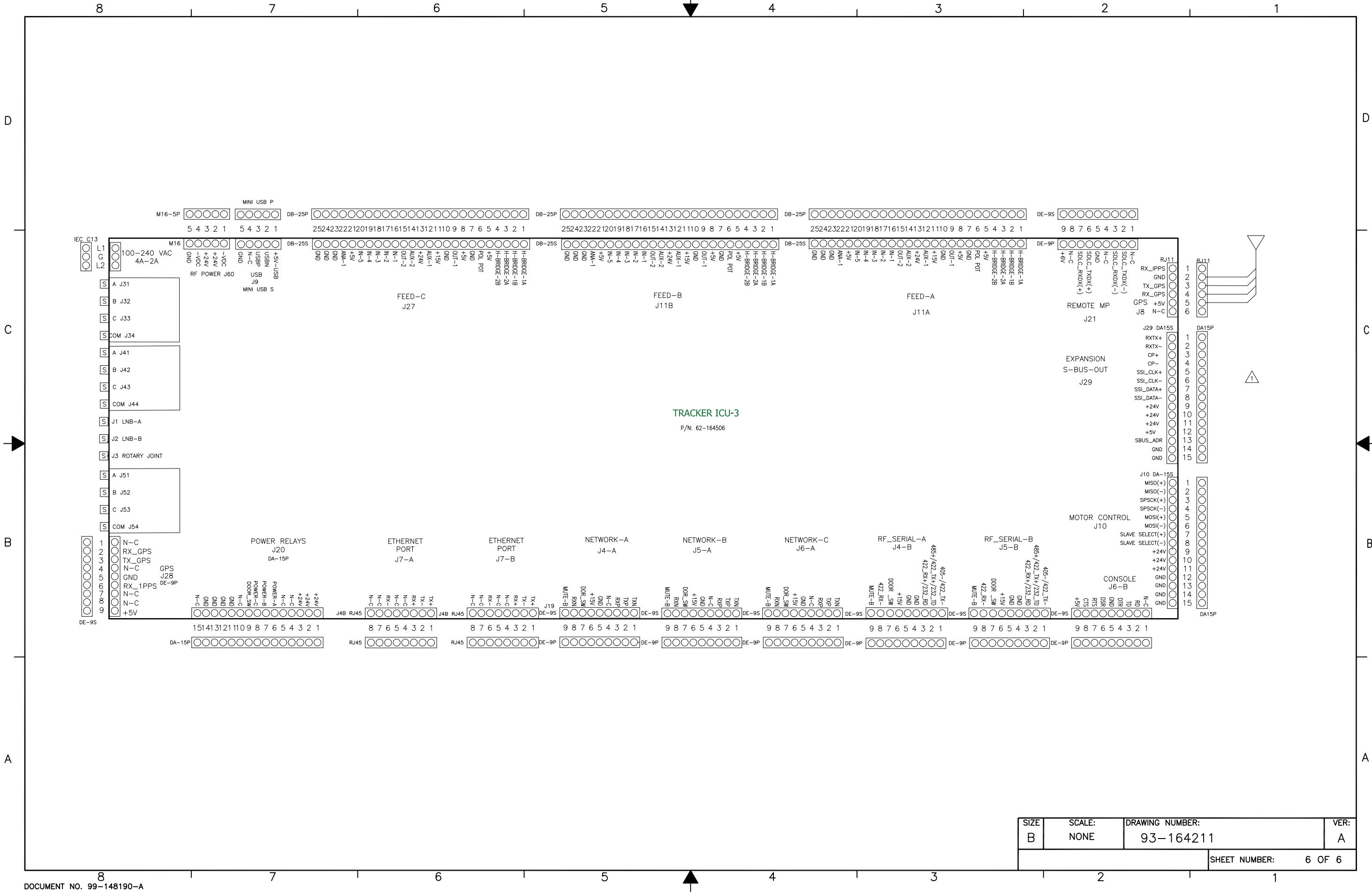
SIZE	SCALE:	DRAWING NUMBER:	VER:
B	NONE	93-164211	A01
SHEET NUMBER:			2 OF 6





SIZE	SCALE:	DRAWING NUMBER:	VER:
B	NONE	93-164211	A01
SHEET NUMBER:			4 OF 6



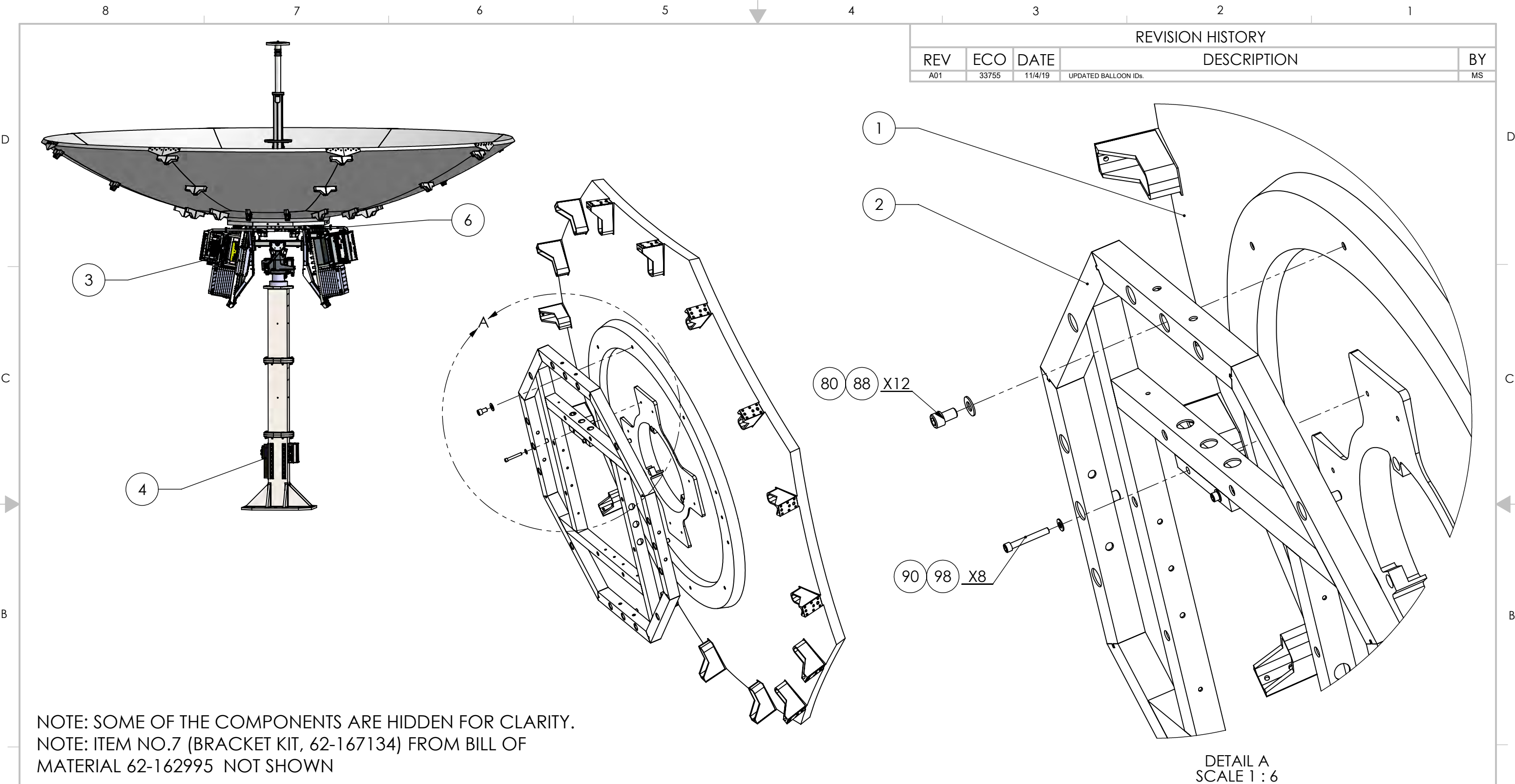


ORACLE BOM Explosion Report

Item Number: 62-162995
Description: GENERAL ASSY, T6000
Item Revision: A.38 MCO-00049599
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-162995	A.01 ECO-00033755	ASSY DRAWING, GENERAL ASSY, T6000	
1	1	pcs	62-162996	A.03 MCO-00049561	ANTENNA ASSY, T6000	
2	1	pcs	62-162997	A.10 MCO-00049561	PEDESTAL ASSY, T6000	
3	1	pcs	62-162999	A.15 MCO-00049599	ELECT. EQUIP. FRAME ASSY, T6000	
4	1	pcs	62-167227	A MCO-00049561	ELECT. EQUIP. PEDESTAL ASSY, T6000	
6	1	pcs	62-163004	A.05 MCO-00049369	TX WAVEGUIDE RUN KIT, T6000	
7	1	pcs	62-167134	A.02 MCO-00049240	BRACKET KIT, SERVICE, T6000	NOT SHOWN
10	1	pcs	62-170239	A.03 MCO-00049343	HARDWARE KIT, FIELD INSTALLATION, TRACKER 6000	
80	12	ea	51-207532-000	MCO-00044396	SCREW, SOCKET HD, 5/8-11, 1 INCH LONG, SS	
88	12	ea	114580-035	MCO-00012113	WASHER, FLAT, 5/8, SS.	
90	8	ea	51-207531-000	MCO-00044395	SCREW, SOCKET HD, 3/8-24, 2-3/4 LONG, SS	
98	8	ea	114580-031	MCO-00012114	WASHER, FLAT, 3/8, SS.	
99	1	ea	37-131383-A	02 ECO-00035123	GARMIN GPS MODULE, SERIAL, 196 INCH TERMINATED	
		pcs	62-162995	A.38 MCO-00049599	GENERAL ASSY, T6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
A01	33755	11/4/19	UPDATED BALLOON IDS.	MS

NOTE: SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY.
NOTE: ITEM NO.7 (BRACKET KIT, 62-167134) FROM BILL OF MATERIAL 62-162995 NOT SHOWN

DETAIL A
SCALE 1 : 6

- NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
 2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-162995, REGARDLESS OF ASSEMBLY OR DRAWING REVISION. SOME ITEMS SHOWN ON THIS DRAWING MAY NOT BE INCLUDED ON THE BILL OF MATERIAL, OR MAY APPEAR IN A DIFFERENT ORIENTATION THAN THE DRAWING DEPICTS FOR SOME VARIANTS. REFER TO THE BILL OF MATERIALS FOR THE VARIANT NUMBER SHOWN ON THE WORK ORDER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5° INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED INTERPRET TOLERANCING PER ASME Y14.5 - 2009 Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel. Copyright © Sea Tel, Inc 2011 - Unpublished Work	DESIGNER/ENGINEER: TE	DRAWN BY: MS	COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986	
	WEIGHT: N/A	DRAWN DATE: 8/16/19		
	MATERIAL: N/A	APPROVED BY:	TITLE: ASSY DRAWING, GENERAL ASSY, T6000	
	FINISH: N/A	APPROVED DATE:		
3rd ANGLE PROJECTION	SURFACE ROUGHNESS:	SIZE B	SCALE: 1:24	DRAWING NUMBER 97-162995
		FIRST USED:		REV A01
			SHEET NUMBER	1 OF 1

ORACLE BOM Explosion Report

Item Number: 62-162997
Description: PEDESTAL ASSY, T6000
Item Revision: A.10 MCO-00049561
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-162997	A.01 MCO-00049369	PEDESTAL ASSY, T6000	
1	1	pcs	62-162998	A.04 MCO-00049343	BASE STAND ASSY, T6000	
2	1	pcs	62-163002	A.09 MCO-00049369	CANISTER, T6000	
3	1	pcs	62-163093	A.03 MCO-00049369	EQUIPMENT FRAME ASSY, T6000	
4	1	ea	41-166755-A	01 MCO-00049204	WELDMENT, MOUTING, REFLECTOR, T6000	
5	4	ea	41-166788-A	01 MCO-00049205	MOUNTING BLOCK, CENTER RING, REFLECTOR, T6000	
6	1	pcs	62-168878	A.03 MCO-00049240	CABLE KIT, TRACKER 6000 AZMUTH	NOT SHOWN
7	1	pcs	62-168967	A.02 MCO-00049343	SMA BANK, T6000	NOT SHOWN
10	1	pcs	62-168730	A.01 ECO-00033111	POWERPOLE CONNECTOR ASSEMBLY KIT, T6000	NOT SHOWN
40	44	in	41-207805-375	MCO-00047497	ROPE, 0.375 IN, SHOCK ABSORBING, NYLON	
41	1	pcs	52-207108-018	MCO-00020648	NUT, OVAL EYE, 1/2-13 THREAD	
42	2	in	120117-080	MCO-00012113	HEAT SHRINK, 1/2 DIA, BLK, SUMITUBE B2	
44	1	pcs	51-207506-000	MCO-00042884	SCREW SET M10X40mm CPSS,316 SS	
50	12	ea	119973-148	MCO-00012113	SCREW, SOCKET HD, M8 X 25, SS.	
58	12	ea	114580-270	MCO-00012113	WASHER, FLAT, M8, SS.	
60	6	pcs	51-207507-000	MCO-00042884	SCREW, SOCKET HEAD, M12 X 70, SS	
70	8	ea	51-207189-000	MCO-00012860	SCREW, SOCKET HD, GRADE 8 5/8-11 X 1 1/2 IN	
78	16	ea	53-207161-000	MCO-00044308	WASHER, FLAT, 5/8, SMALL OD 1.00", SS	
79	8	pcs	52-207086-000	MCO-00012861	NUT, COUPLING, 5/8-11 X 2 1/8, GRADE 8 STEEL	
80	2	ea	114593-130	MCO-00012113	SCREW, SOCKET HD, 6-32 x 1-1/4, SS.	
88	4	ea	114580-007	MCO-00028139	WASHER, FLAT, #6, SS.	
89	2	ea	114583-007	MCO-00012113	NUT, HEX, 6-32, SS.	
90	4	ea	114622-546	MCO-00012113	SCREW, HEX HD, FULL THRD, 1/4-20 x ...	

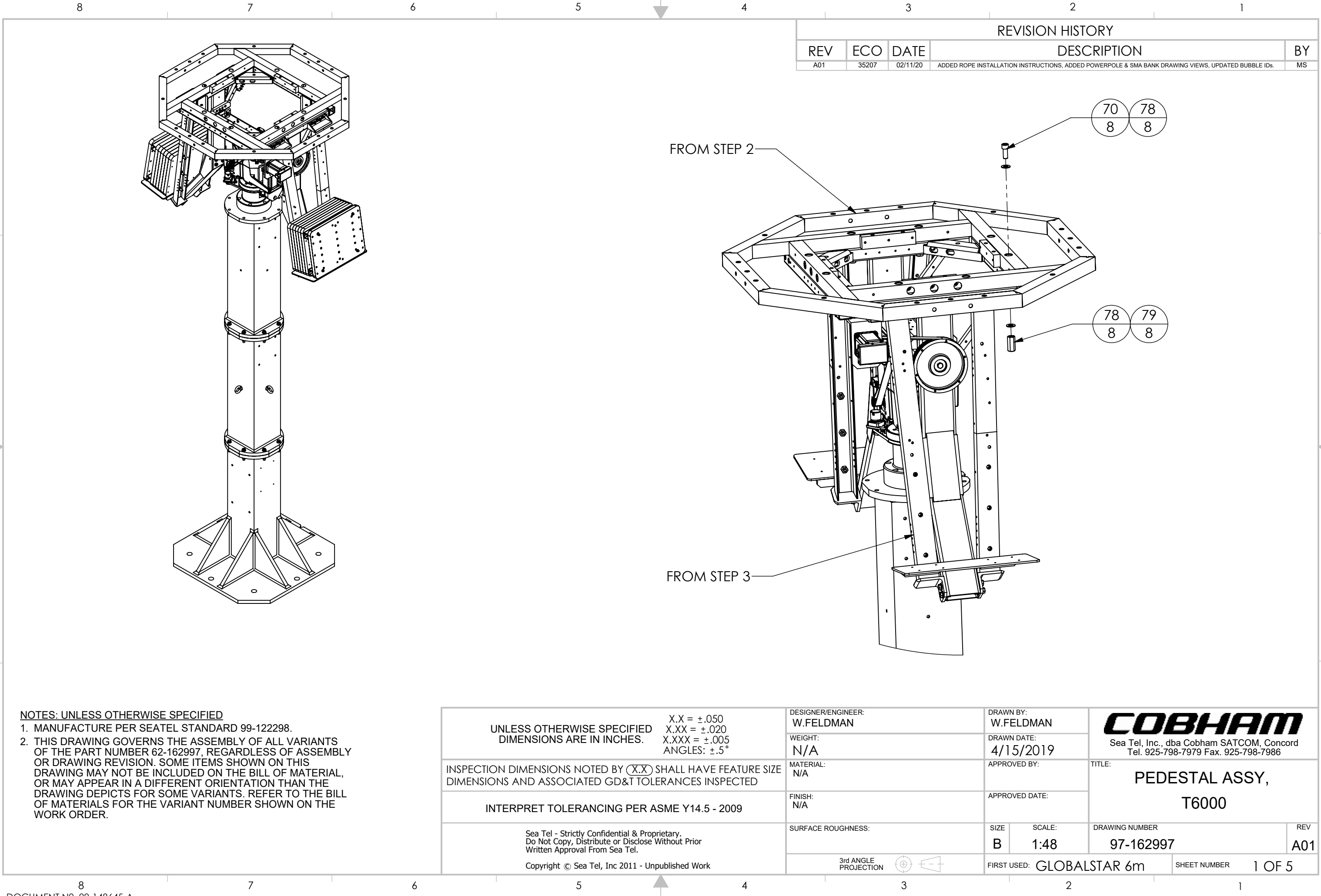
Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

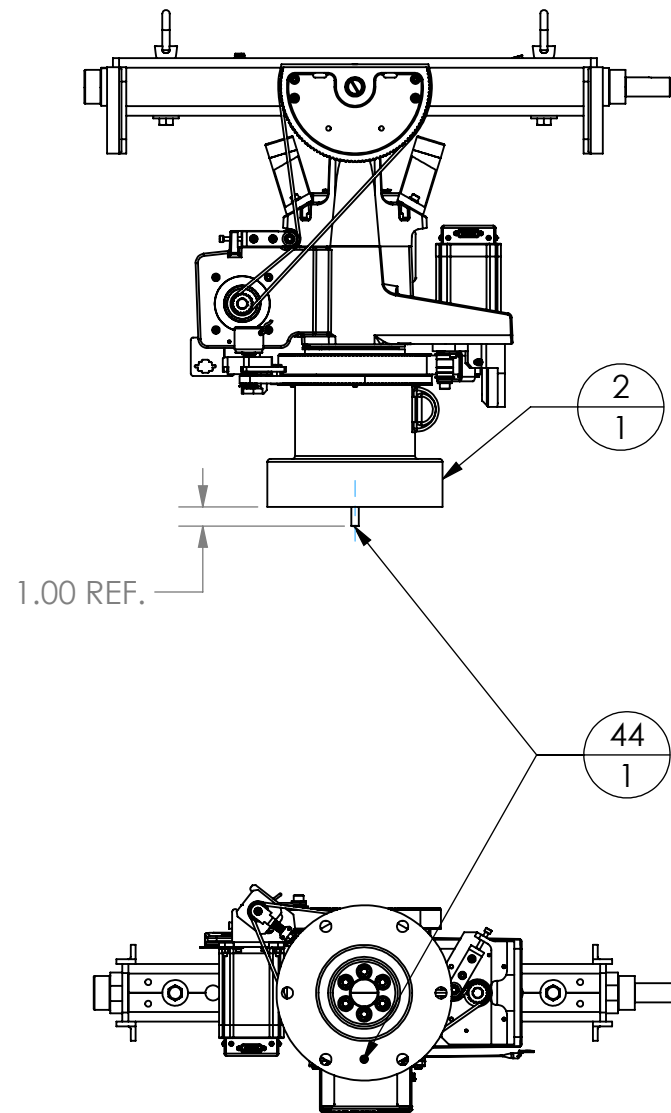
Item Number: 62-162997
Description: PEDESTAL ASSY, T6000
Item Revision: A.10 MCO-00049561
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
					...1-1/2, SS.	
98	8	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	
99	4	ea	114583-029	MCO-00012113	NUT, HEX, 1/4-20, SS.	
		pcs	62-162997	A.10 MCO-00049561	PEDESTAL ASSY, T6000	

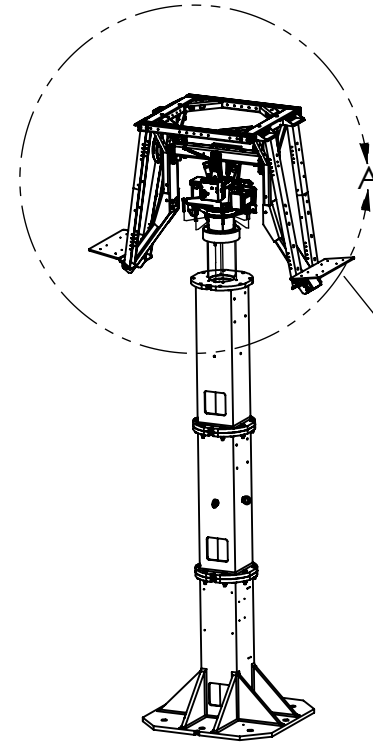
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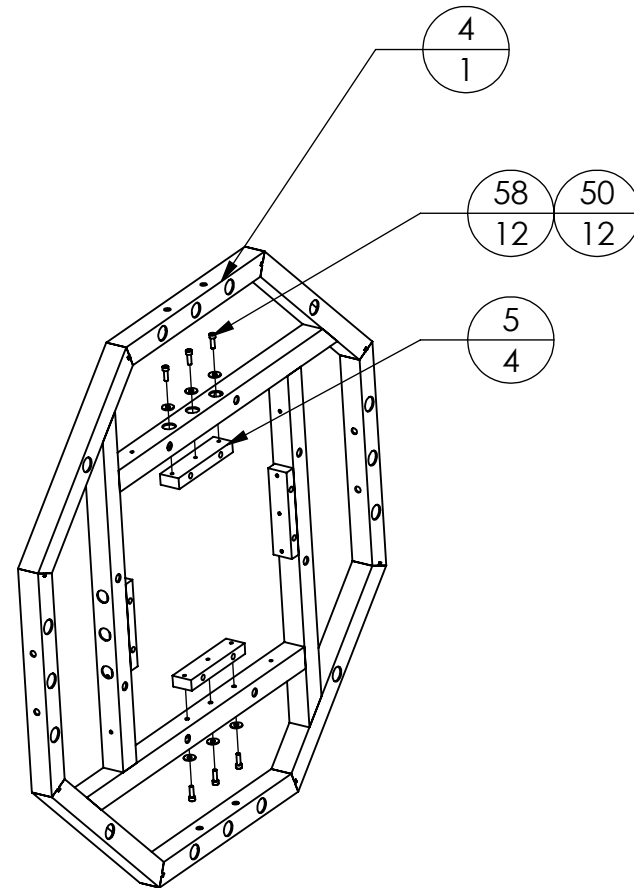
STEP 1



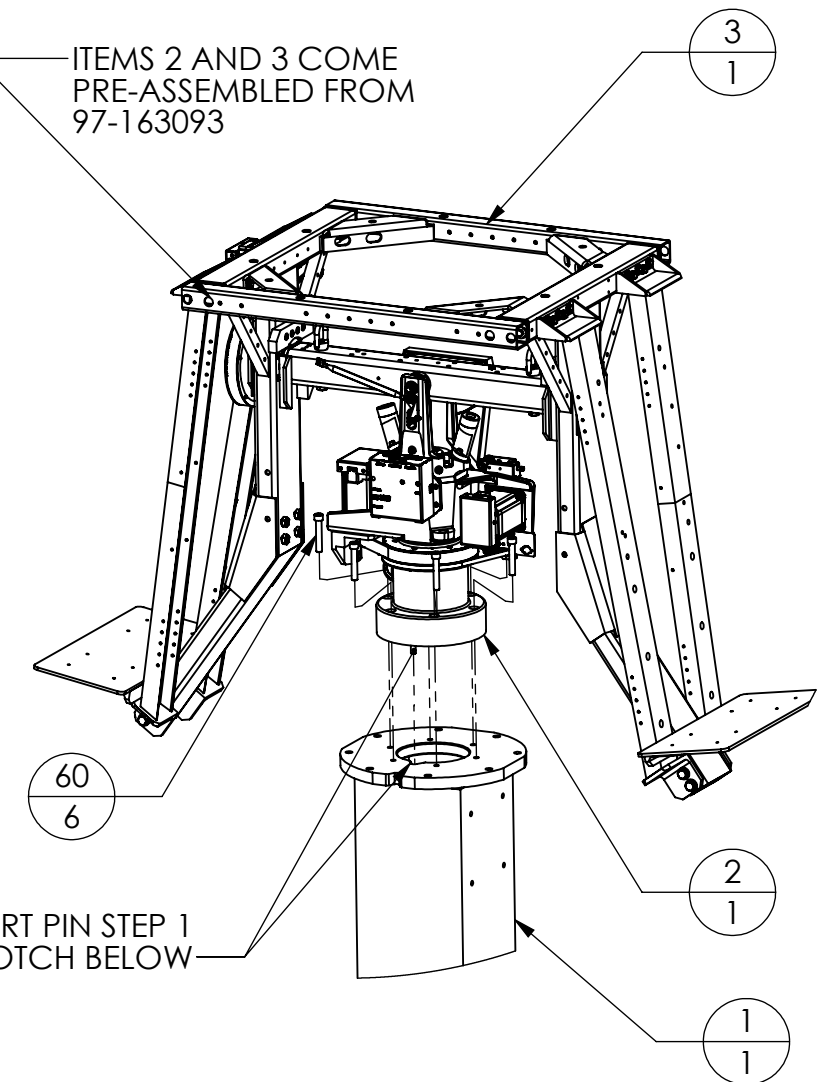
STEP 3



ITEMS 2 AND 3 COME
PRE-ASSEMBLED FROM
97-163093



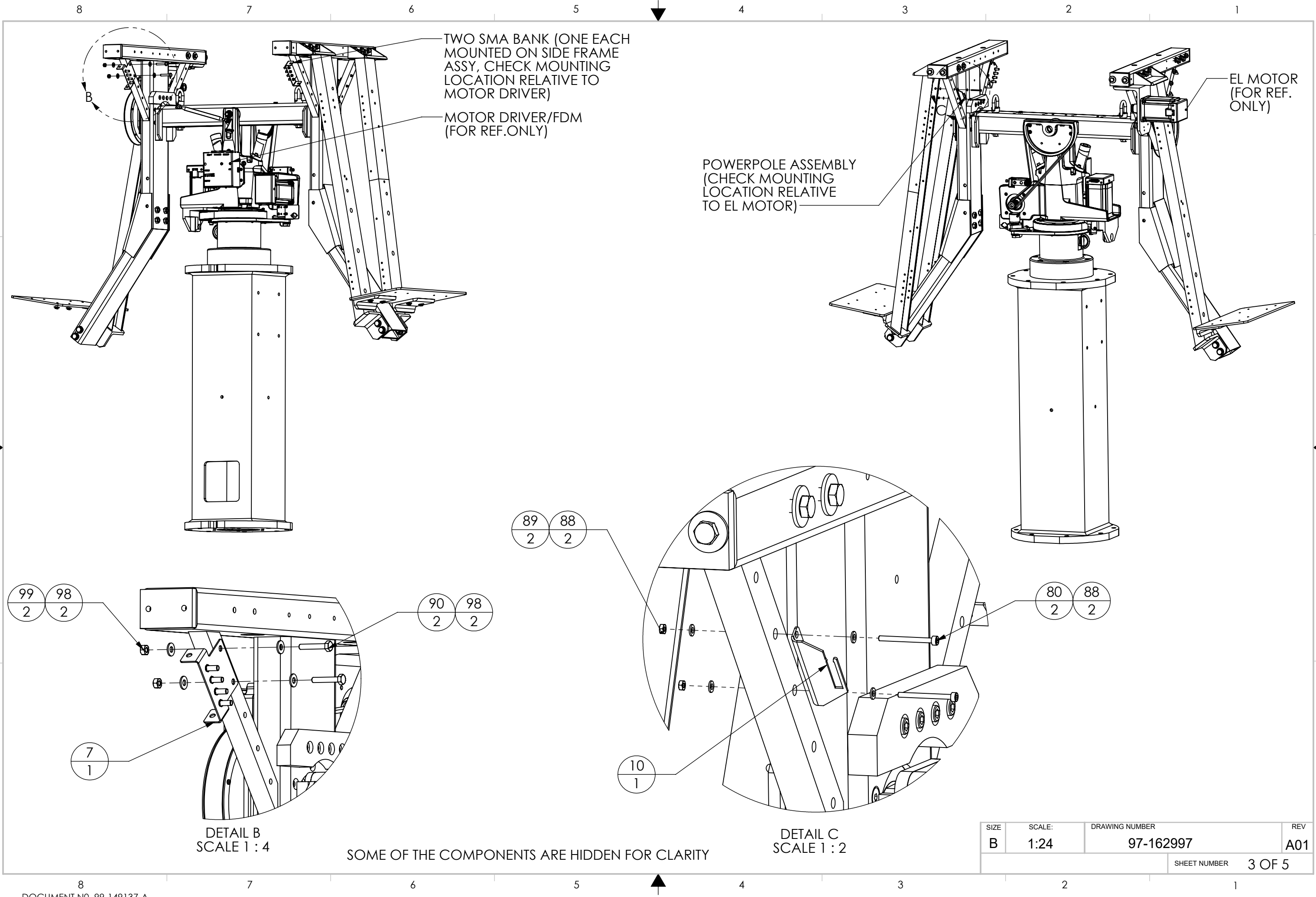
INSERT PIN STEP 1
IN ALIGNMENT NOTCH BELOW



DETAIL A
SCALE 1 : 16

STEP 2

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:48	97-162997	A01
		SHEET NUMBER	2 OF 5



TWO SMA BANK (ONE EACH MOUNTED ON SIDE FRAME ASSY, CHECK MOUNTING LOCATION RELATIVE TO MOTOR DRIVER)

MOTOR DRIVER/FDM (FOR REF.ONLY)

POWERPOLE ASSEMBLY (CHECK MOUNTING LOCATION RELATIVE TO EL MOTOR)

EL MOTOR (FOR REF. ONLY)

DETAIL B
SCALE 1 : 4

SOME OF THE COMPONENTS ARE HIDDEN FOR CLARITY

DETAIL C
SCALE 1 : 2

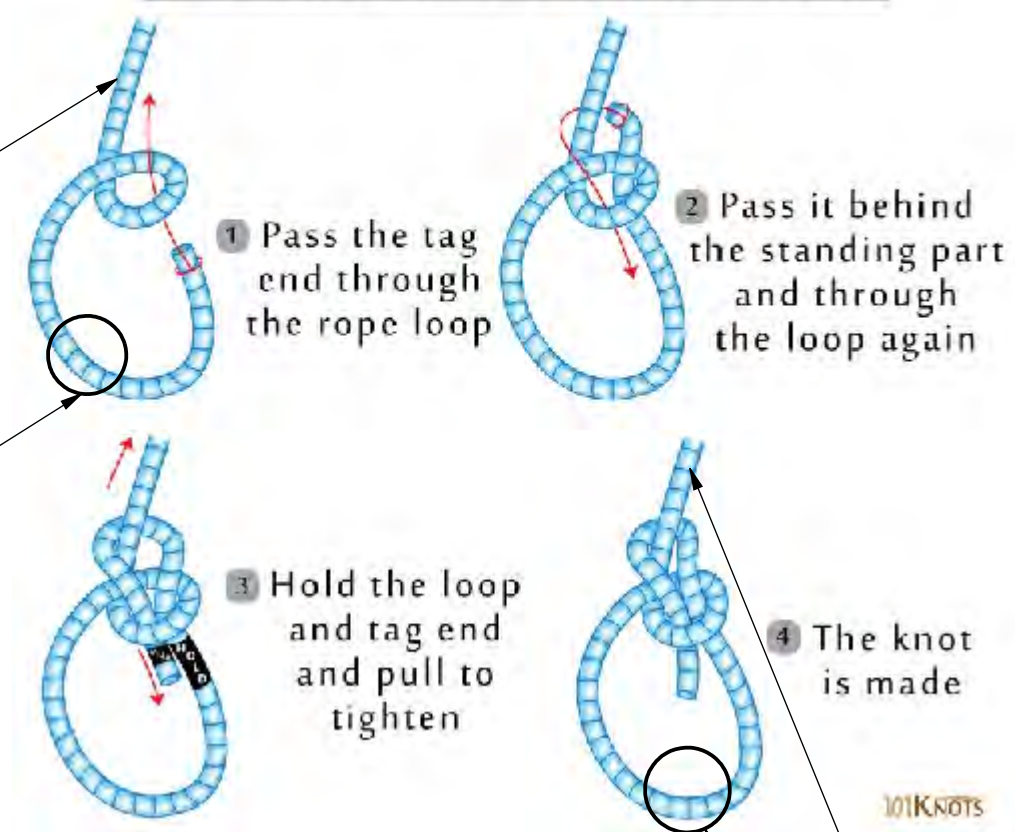
SIZE	SCALE:	DRAWING NUMBER	REV
B	1:24	97-162997	A01
		SHEET NUMBER	3 OF 5



STEP-1

- CUT APPROX. 44" ROPE.
- TIE ONE END (SEE BOWLINE KNOT INSTRUCTIONS) OF ROPE TO TIE-DOWN RING (ITEM-47, ASSEMBLY 62-163002) AND PASS OTHER END FROM AZ TENSIONER BRACKET (41-163047-A).
- HEAT SHRINK (120117-080) ROPE END (THE ONE THAT IS RING SIDE- SEE IMAGE).

Bowline Knot Directions



THIS END TOWARDS AZ
TENSIONER BRACKET
(NOT SHOWN IN
INSTRUCTION)

TIE-DOWN RING SIDE
(NOT SHOWN IN
INSTRUCTION)

THIS END TOWARDS AZ
TENSIONER BRACKET
(NOT SHOWN)

TIE-DOWN RING SIDE
(NOT SHOWN)

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:48	97-162997	A01
		SHEET NUMBER	4 OF 5



STEP-2
-PASS OTHER END (LOOSE END) FROM EYE NUT AND MAKE A BOWLINE KNOT.



1" HEAT SHRINK/
YELLOW TAPE



STEP-3
-ROTATE CANISTER ASSEMBLY ONE COMPLETE REVOLUTION TO CHECK CORRECT ROPE SIZE.
-CANISTER SHOULD BE ABLE TO MAKE AT LEAST ONE COMPLETE REVOLUTION AND NOT MORE. IF CANISTER EXCEED ONE ROTATION, UNTIE AND RE-DO STEP-2.

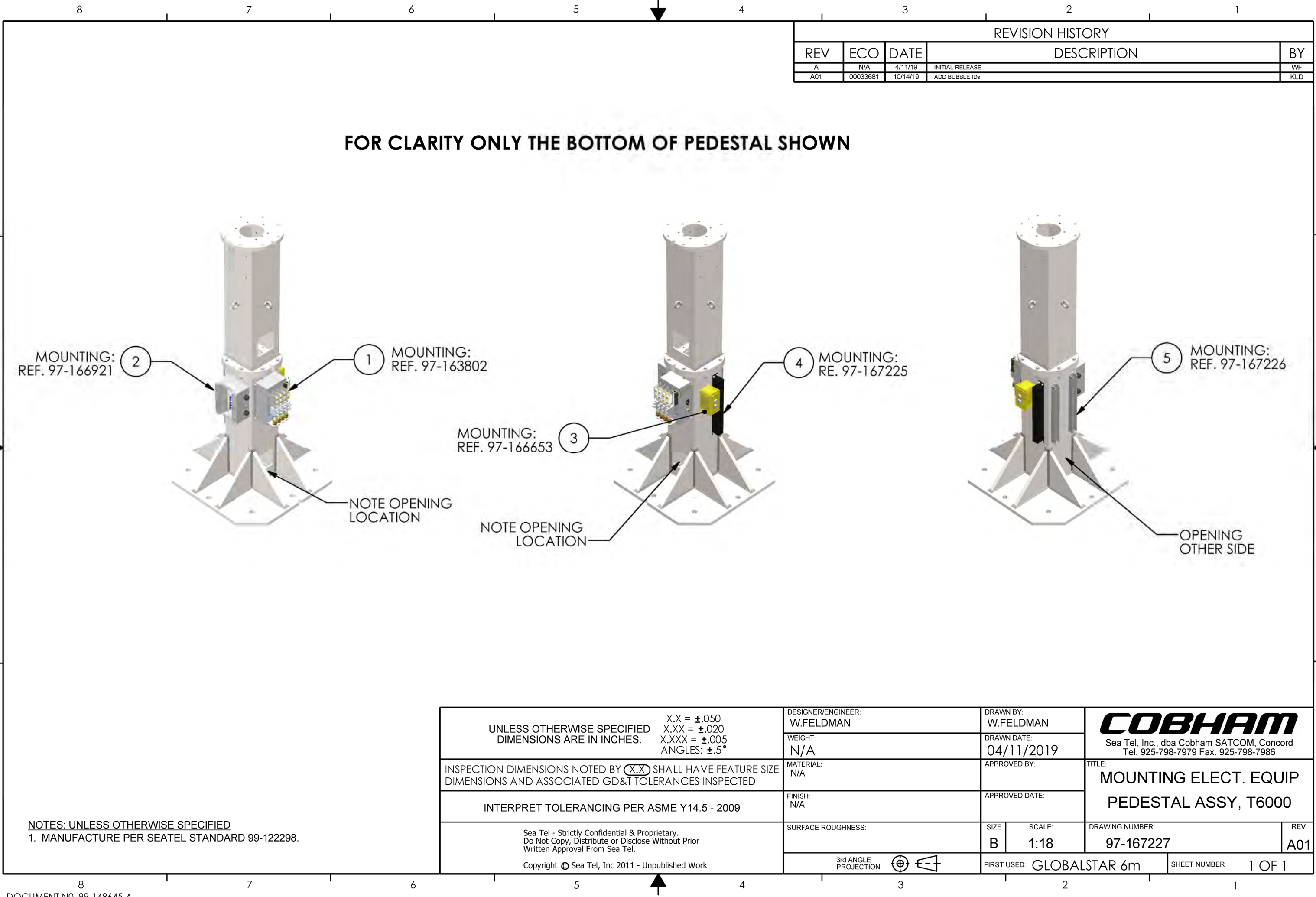
SIZE	SCALE:	DRAWING NUMBER	REV
B	1:48	97-162997	A01
		SHEET NUMBER	5 OF 5

ORACLE BOM Explosion Report

Item Number: 62-167227
Description: ELECT. EQUIP. PEDESTAL ASSY, T6000
Item Revision: A MCO-00049561
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-167227	A.01 ECO-00033681	MOUNTING ELECT. EQUIP. PEDESTAL ASSY, T6000	
1	1	pcs	62-163802	A.04 MCO-00049369	IF INTERFACE & 10MHz DISTRIBUTION ASSY	
2	1	pcs	62-166921	A.03 MCO-00049240	CIRCUIT BREAKER ASSY, TRACKER 6000	
3	1	pcs	62-166653	A.03 MCO-00049369	SAFETY CIRCUIT INTERFACE BOX ASSY	
4	1	pcs	62-167225	A MCO-00049240	POWER STRIP KIT, 2 POLE 10A CB, 6 IEC C13 OUTPUT	
5	1	pcs	62-167226	A.01 MCO-00049240	UNISTRUT KIT, 1 5/8 X 1 5/8 CHANNEL 18IN LG, 304S	
		pcs	62-167227	A MCO-00049561	ELECT. EQUIP. PEDESTAL ASSY, T6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



ORACLE BOM Explosion Report

Item Number: 62-163802
Description: IF INTERFACE & 10MHz DISTRIBUTION ASSY
Item Revision: A.04 MCO-00049369
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-163802	A.02 MCO-00049369	IF INTERFACE & 10MHz DISTRIBUTION ASSY	
1	1	pcs	41-168917-A	01 ECO-00033164	SHELL, DISTRIBUTION ASSEMBLY	
2	4	ea	41-165444-A	01 MCO-00049204	BRACKET, DUPLEXER BIAS-T	
4	1	ea	41-165446-A	02 MCO-00049204	BRACKET, 4 N BULKHEAD CONNECTORS	
5	1	pcs	46-207226-000	MCO-00040484	RJ45 SURGE SUPPRESSOR	
6	1	ea	122289	G ECO-00008543	POWER ENTRY MODULE ASSY, 6 IN LEADS	
7	1	pcs	88-207893-000	MCO-00041049	POWER SUPPLY SWITCHING, 75W, RS-75-15	
8	2	pcs	130838-2	A.01 ECO-00008545	POWER DIVIDER, 2 WAY 0 DEG, 10 - 2000 MHz, SMA	
9	5	pcs	136131	MCO-00020808	CONNECTOR, N(F)-N(F), BULKHEAD, LIGHTNING ARRESTER	
10	4	pcs	46-207224-000	MCO-00039869	COUPLER, BI-DIRECTIONAL, 800 TO 2300 MHZ, N	
11	4	pcs	46-207227-000	MCO-00044397	BIAS-T & 10MHz DIPLEXER, 3AMP, NORSAT BT-4333M	
12	1	pcs	88-207345-000	MCO-00017898	10MHz 4 PORT DISTRIBUTION AMPLIFIER	
13	1	pcs	27-207097-000	MCO-00041046	10 MHz Recovery Oscillator, LREC-888X-11XX-02, SMA	
14	2	pcs	37-207199-000	MCO-00027508	COAX CABLE ASSY, RG174 SMA(RAM)-SMA(RAM), 6"	NOT SHOWN
15	2	ea	37-207198-000	MCO-00027508	COAX CABLE ASSY, RG174 SMA(M)-SMA(RAM), 6"	NOT SHOWN
17	1	ea	31-207377-000	MCO-00013589	Adapter, SMA(F) to N(M), 50 Ohm, 6 GHz	NOT SHOWN
18	4	ea	110567-17	MCO-00048312	ADAPTER, N(M)-N(M)	
19	6	ea	115492-10	MCO-00012114	ADAPTER, SMA(F)-SMA(F), BULKHEAD	
20	1	ea	41-165676-A	02 MCO-00042219	BRACKET, LIGHTNING PROTECTOR	
21	5	pcs	37-167169-A	01 MCO-00042709	GROUND STRAP, 18", 12 AWG, #8 EYES	

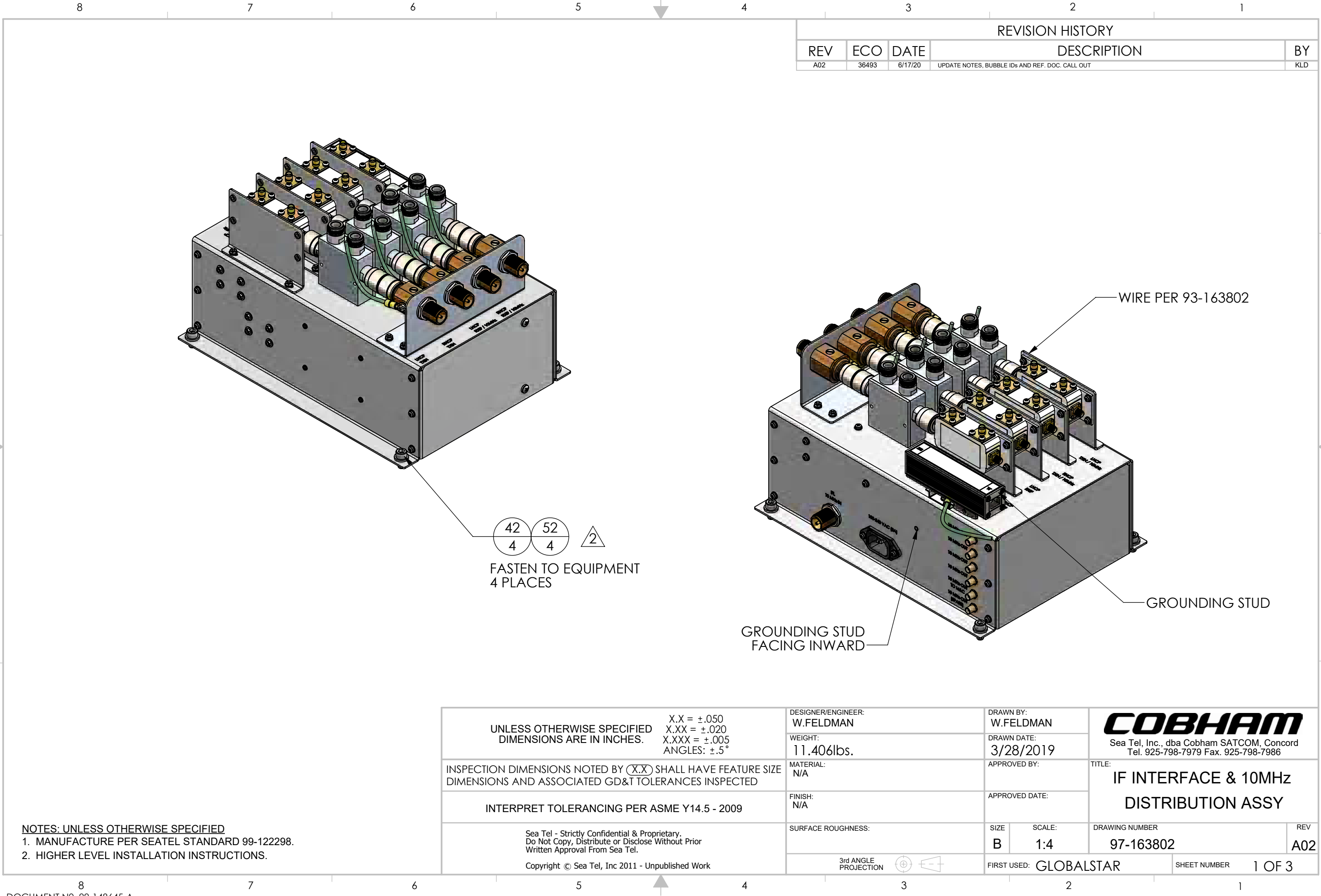
Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-163802
Description: IF INTERFACE & 10MHz DISTRIBUTION ASSY
Item Revision: A.04 MCO-00049369
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
22	1	pcs	41-168918-A	01 ECO-00033104	SIDE A, DISTRIBUTION ASSEMBLY	
23	1	pcs	41-168919-A	01 ECO-00033103	SIDE B, DISTRIBUTION ASSEMBLY	
24	6	ea	37-207198-001	MCO-00027508	COAX CABLE ASSY, RG174 SMA(M)-SMA(RAM), 12"	NOT SHOWN
25	5	ea	37-207199-001	MCO-00027508	COAX CABLE ASSY, RG174 SMA(RAM)-SMA(RAM), 12"	NOT SHOWN
30	2	ea	110495-6	MCO-00027635	ATTENUATOR, 6 dB, SMA, 2 WATT, DC-18GHz	NOT SHOWN
31	5	pcs	31-207405-000	MCO-00014975	COAX DUST CAP, SMA MALE, NON SHORTING, NO CHAING	NOT SHOWN
42	4	ea	119973-134	MCO-00012113	SCREW, SOCKET HD, M6 X 12, SS.	
44	2	ea	119745-224	MCO-00026962	SCREW, PAN HD, PHIL, M4 X 14, SS.	
45	16	ea	119745-116	MCO-00012113	SCREW, PAN HD, PHIL, M3 X 6, SS.	
46	17	ea	119745-118	MCO-00046136	SCREW, PAN HD, PHIL, M3 X 8, S S	
47	8	ea	124401-006	MCO-00013278	SCREW, PAN HD, PHIL, M2 X 6, SS.	
48	4	pcs	51-207498-000	MCO-00042655	SCREW, PAN HD, PHIL, #2-56 X .19LG., SS.	
52	4	pcs	114580-450	MCO-00012544	WASHER, SMALL PATTERN, M6, SS	
54	2	ea	114580-230	MCO-00039541	WASHER, FLAT, M4, SS.	
55	47	ea	114580-210	MCO-00046136	WASHER, FLAT, M3, SS.	
56	8	ea	114580-180	MCO-00012113	WASHER, FLAT, M2, SS.	
57	4	ea	114580-003	MCO-00012113	WASHER, FLAT, #2, SS.	
64	2	ea	120089-231	MCO-00012113	NUT, HEX, M4, SS.	
65	14	ea	120089-211	MCO-00023264	NUT, HEX, M3, SS.	
66	8	pcs	52-207153-000	MCO-00036751	NUT, HEX, M2, SS	
		pcs	62-163802	A.04 MCO-00049369	IF INTERFACE & 10MHz DISTRIBUTION ASSY	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
A02	36493	6/17/20	UPDATE NOTES, BUBBLE IDs AND REF. DOC. CALL OUT	KLD

42/4 52/4 2

FASTEN TO EQUIPMENT
4 PLACES

GROUNDING STUD
FACING INWARD

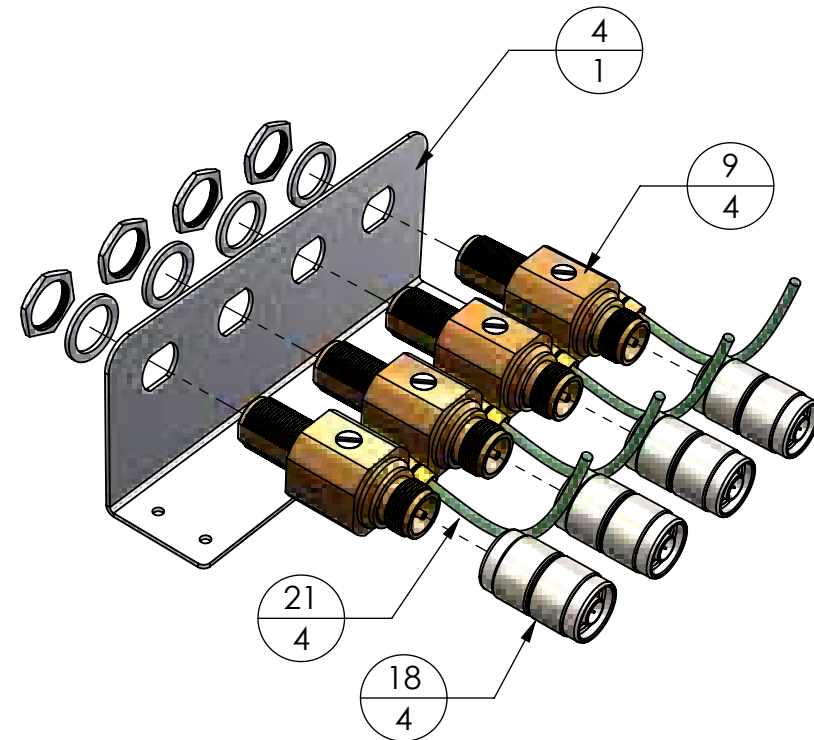
WIRE PER 93-163802

GROUNDING STUD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED INTERPRET TOLERANCING PER ASME Y14.5 - 2009 Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel. Copyright © Sea Tel, Inc 2011 - Unpublished Work	DESIGNER/ENGINEER: W.FELDMAN	DRAWN BY: W.FELDMAN	COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986 TITLE: IF INTERFACE & 10MHz DISTRIBUTION ASSY	
	WEIGHT: 11.406lbs.	DRAWN DATE: 3/28/2019		
	MATERIAL: N/A	APPROVED BY:		
	FINISH: N/A	APPROVED DATE:	SIZE B	SCALE: 1:4
SURFACE ROUGHNESS:		DRAWING NUMBER 97-163802		REV A02
3rd ANGLE PROJECTION		FIRST USED: GLOBALSTAR	SHEET NUMBER	1 OF 3

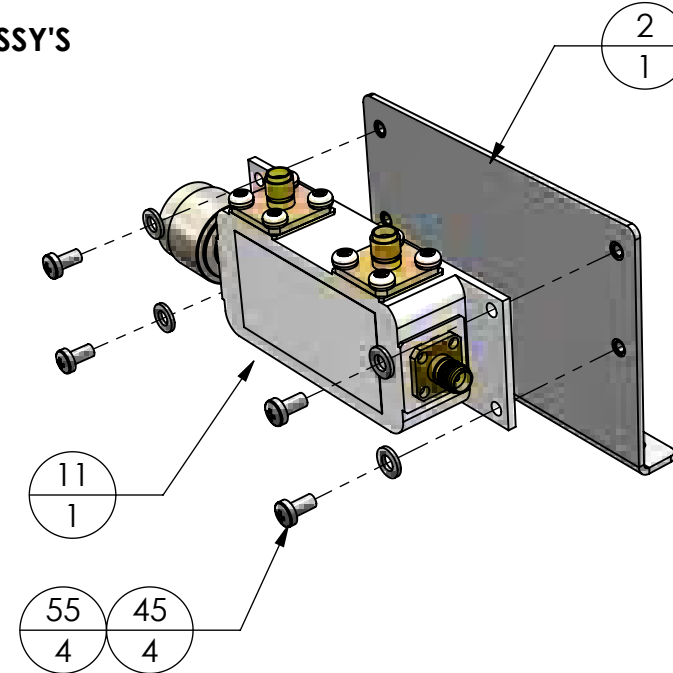
NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
2. HIGHER LEVEL INSTALLATION INSTRUCTIONS.

STEP 1



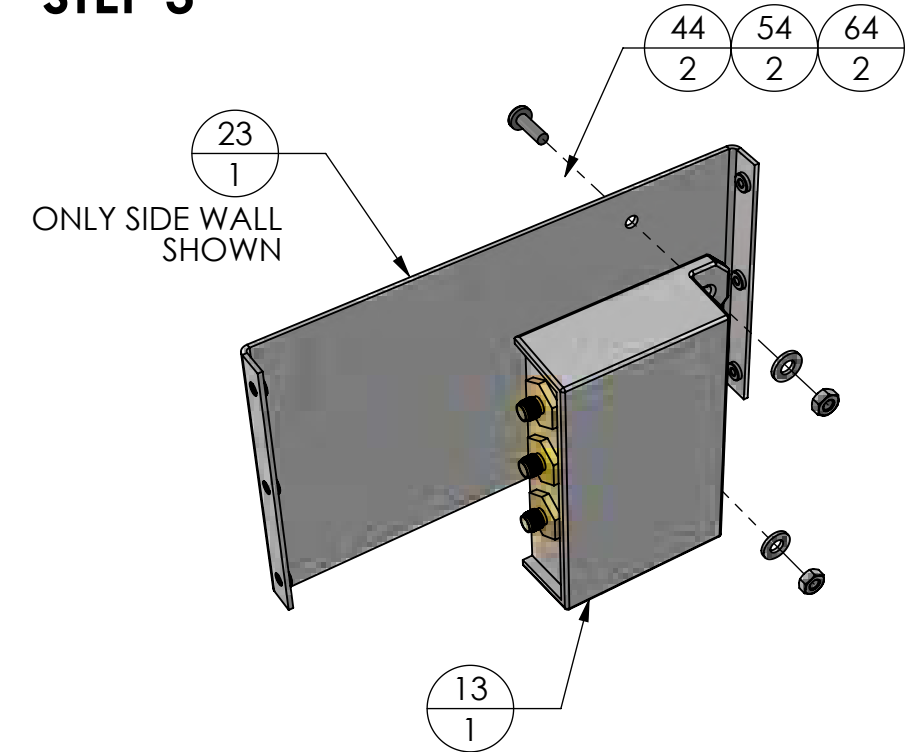
STEP 2

X4 SUB-ASSY'S

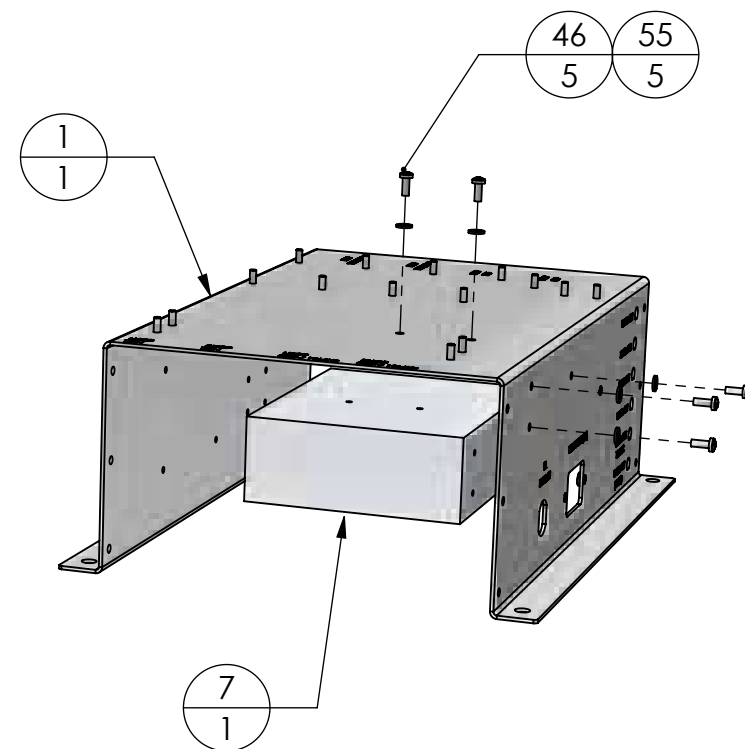


STEP 3

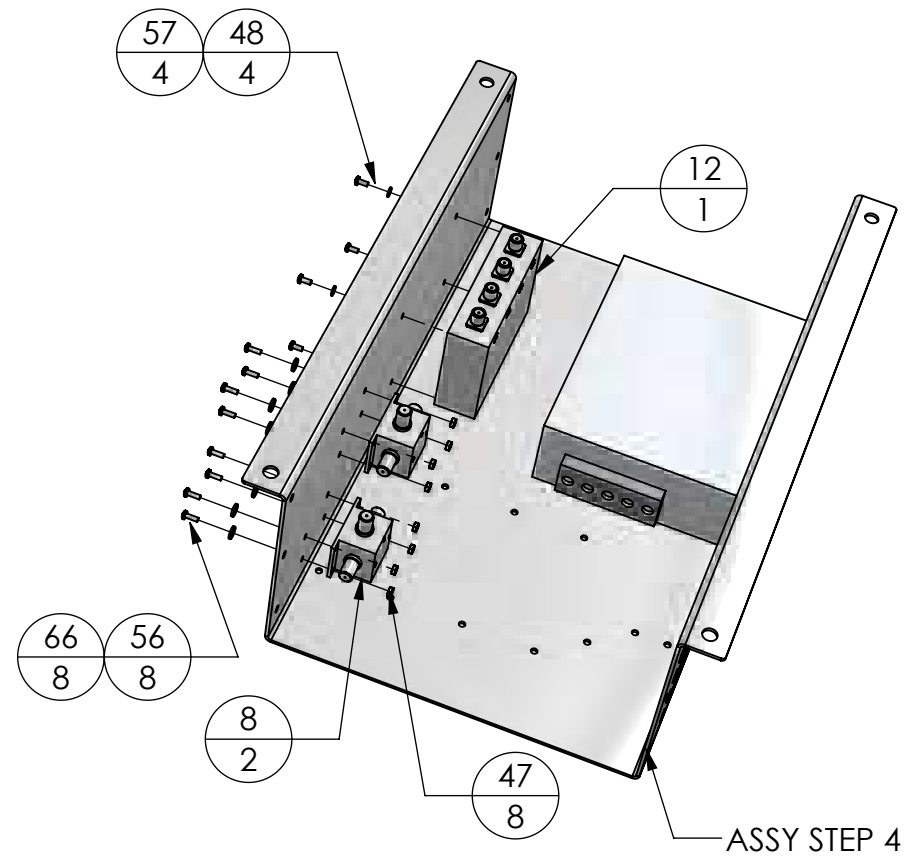
ONLY SIDE WALL SHOWN



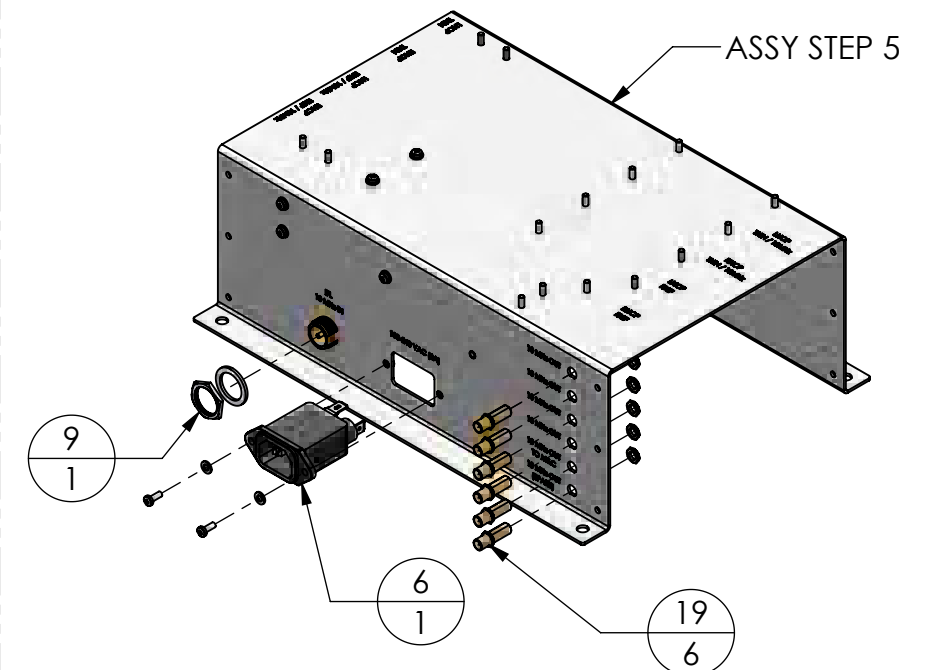
STEP 4



STEP 5

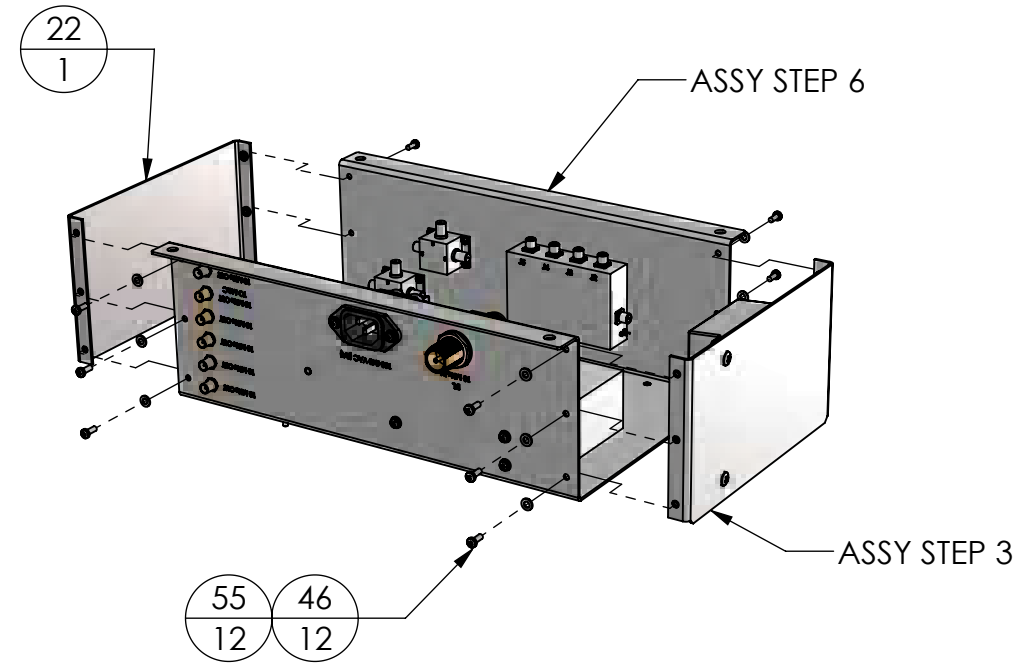


STEP 6

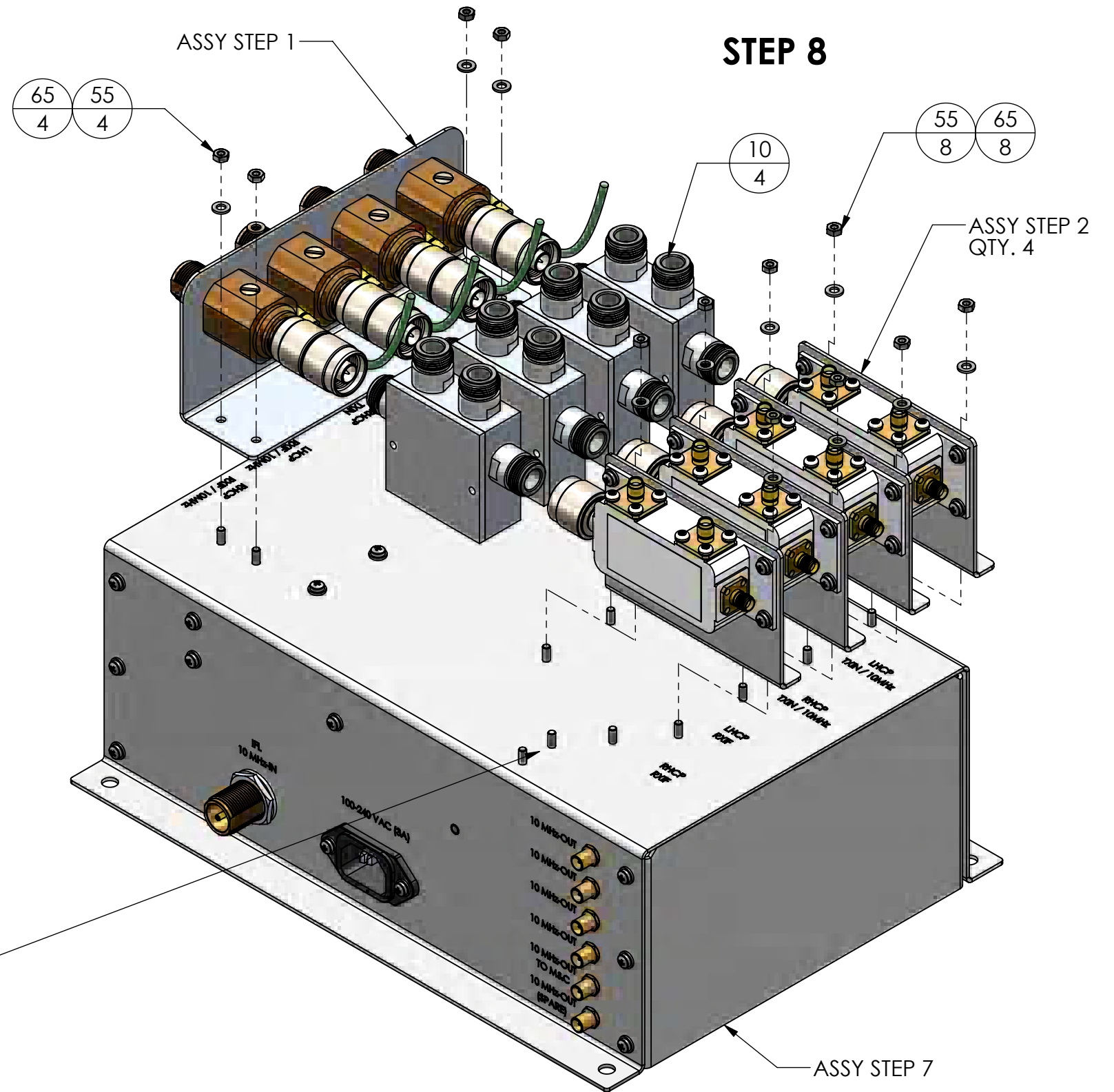


SIZE	SCALE:	DRAWING NUMBER	REV
B	1:4	97-163802	A02
		SHEET NUMBER	2 OF 3

STEP 7



STEP 8



SIZE	SCALE:	DRAWING NUMBER	REV
B	1:2	97-163802	A02
		SHEET NUMBER	3 OF 3

ORACLE BOM Explosion Report

Item Number: 62-166921
Description: CIRCUIT BREAKER ASSY, TRACKER 6000
Item Revision: A.03 MCO-00049240
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-166921	A.01 MCO-00049240	CIRCUIT BREAKER ASSY, TRACKER 6000	
1	1	pcs	88-207659-000	MCO-00041231	ENCLOSURE ASSY, AKi12 CIRCUIT BREAKER	
2	1	ea	41-207796-000	MCO-00046783	CORD GRIP, SUBMERSIBLE, .35"-.63" CORD OD, 3/4 KNO	
3	2	pcs	41-207798-000	MCO-00046806	CORD GRIP, SUBMERSIBLE, .51-.71 CORD OD, 3/4 KNO	
4	1	pcs	33-207262-000	MCO-00041253	AC SURGE PROTECTIVE DEVICE, 2 POLE 120/240VAC	
5	1	pcs	33-207206-000	MCO-00034157	CIRCUIT BREAKER, DPDT-25AMP-480VAC-D CURVE, UL1077	
6	1	pcs	33-207206-001	MCO-00044355	CIRCUIT BREAKER, DPDT-32AMP-480VAC-D CURVE, UL1077	
7	1	ea	130834-5	MCO-00016172	CIRCUIT BREAKER, DIN RAIL MOUNT, TWO POLE, 6 AMP	
8	1	ea	141222-72	A MCO-00028420	POWER CORD ASSY, AC PWR TERM. TO C13, 72IN	
9	1	ea	37-170801-A	02 ECO-00035918	POWER CABLE, CB OUTPUT HARNESS ASSEY, T6000, 40"	
10	1	ea	37-171798-A	01 ECO-00035385	POWER CORD, L25-30P, 30A, 10/3 AWG	
11	1	ea	109258-10	MCO-00047507	RELIEF, STRAIN	
12	1	ea	131302-1	MCO-00012114	LOCKNUT, CONDUIT, 1/2", SEALING	
16	9	ea	121899-12	MCO-00042451	WIRE PIN TERMINAL, CRIMP, 12 AWG, ORG or GRY	
18	2	ea	135495-15	MCO-00020357	WIRE PIN TERMINAL, TWIN, 14 X 2, AWG	
20	6	in	127763-031	MCO-00012113	WIRE, 14AWG, COPPER STRAND, BRN, UL1015/600V	
21	6	in	127763-0354	MCO-00012113	WIRE, 14AWG, COPPER STRAND, GRN/YEL, UL1015/600V	
22	6	in	127763-036	MCO-00012113	WIRE, 14AWG, COPPER STRAND, BLU, UL1015/600V	
23	3	ea	31-207644-002	MCO-00029775	WIRE TERMINAL, INSULATED REDUCING PIN, 12/10AWG	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

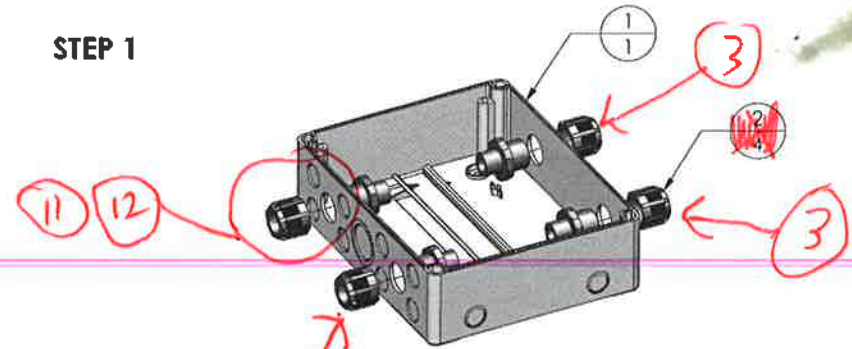
Item Number: 62-166921
Description: CIRCUIT BREAKER ASSY, TRACKER 6000
Item Revision: A.03 MCO-00049240
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
51	4	ea	119973-125	MCO-00037692	SCREW, SOCKET HD, M5 X 12, SS.	
57	4	ea	114580-240	MCO-00012113	WASHER, FLAT, M5, SS.	
		pcs	62-166921	A.03 MCO-00049240	CIRCUIT BREAKER ASSY, TRACKER 6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

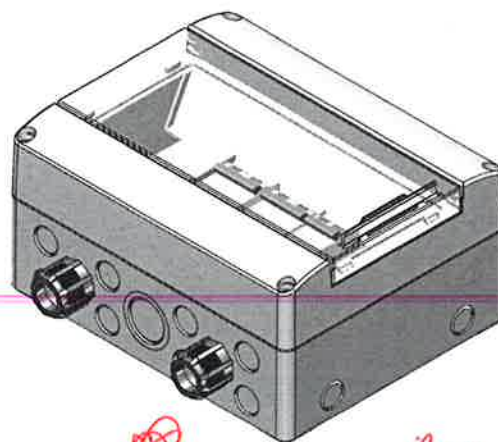
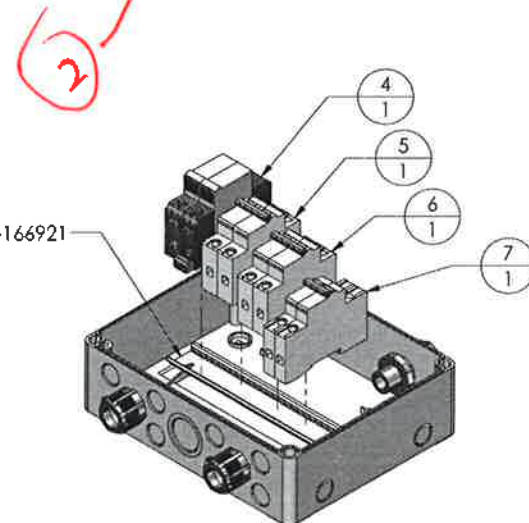
REVISION HISTORY				BY
REV	ECO	DATE	DESCRIPTION	

STEP 1



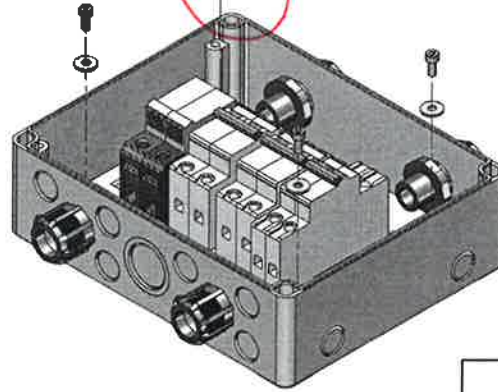
STEP 2

WIRE PER 93-166921



Bag and tag

REMOVE COVER
FASTEN TO EQUIPMENT
4 PLACES



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

X.X = ±.050
X.XX = ±.020
X.XXX = ±.005
ANGLES: ±.5°

INSPECTION DIMENSIONS NOTED BY (XX) SHALL HAVE FEATURE SIZE
DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED

INTERPRET TOLERANCING PER ASME Y14.5 - 2009

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DESIGNED/ENGINEER
W.FELDMAN

WEIGHT:
3 lbs.

MATERIAL:
N/A

FINISH:
N/A

SURFACE ROUGHNESS

3RD ANGLE
PROJECTION

DRAWN BY
W.FELDMAN

DRAWN DATE:
4/10/2019

APPROVED BY:

APPROVED DATE:

SIZE
B

SCALE:
1:4

FIRST USED: GLOBALSTAR 6m

COBHAM

See Tel, Inc., dba Cobham SATCOM, Concord
Tel. 925-798-7979 Fax. 925-796-7956

TITLE
CIRCUIT BREAKER ASSY,
TRACKER 6000

DRAWING NUMBER

97-166921

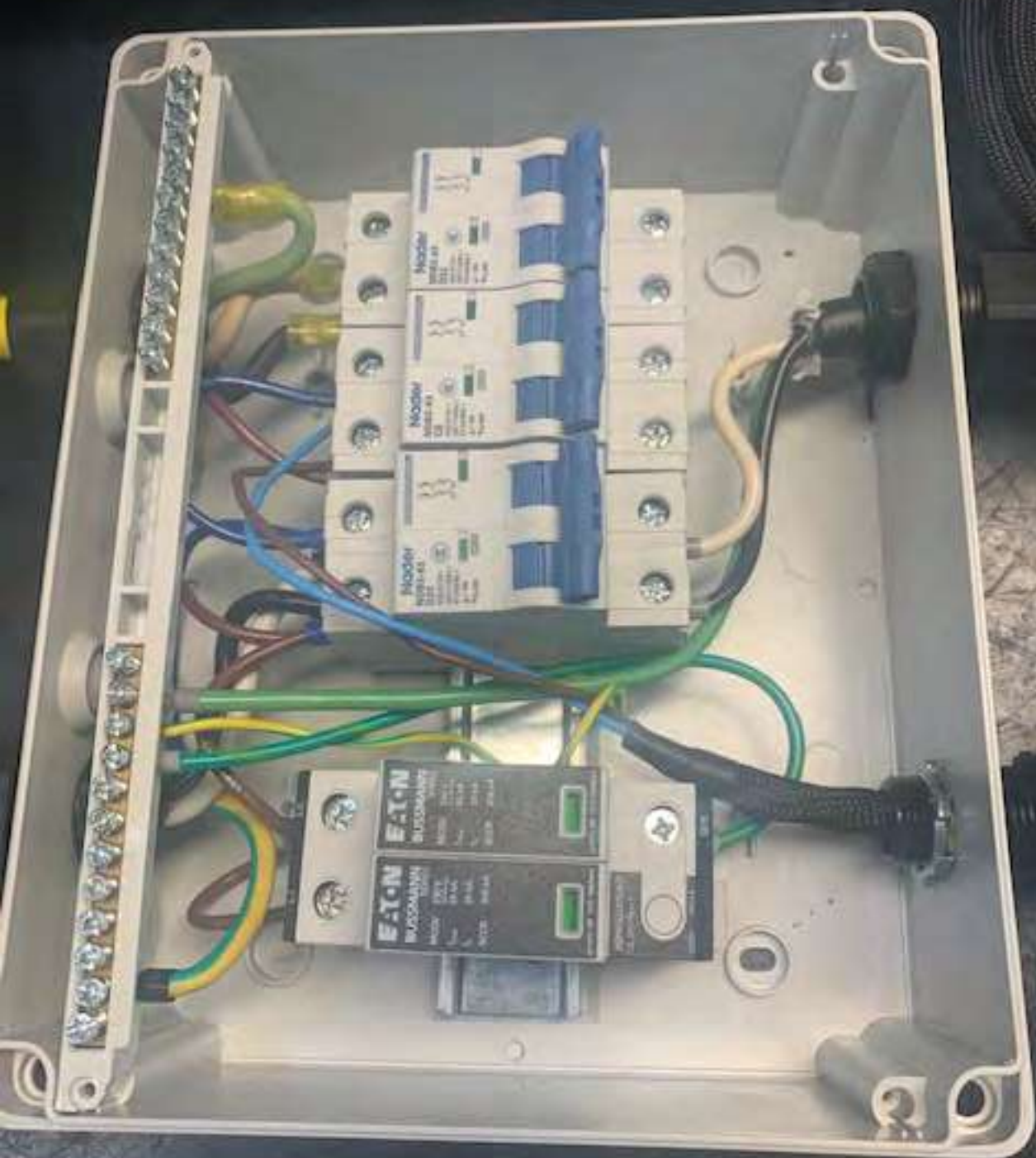
SHEET NUMBER 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED

1. MANUFACTURE PER SEATEL STANDARD 99-122298.

2. HIGHER LEVEL INSTALLATION INSTRUCTIONS.

Bag + tag hardware.



ORACLE BOM Explosion Report

Item Number: 62-166653

Description: SAFETY CIRCUIT INTERFACE BOX ASSY

Item Revision: A.03 MCO-00049369

Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	93-166653	A MCO-00049369	SCHEMATIC, SAFETY CIRCUIT INTERFACE BOX ASSY	
0	REF	pcs	97-166653	A MCO-00049240	SAFETY CIRCUIT INTERFACE BOX ASSY	
1	1	pcs	41-167117-A	02 MCO-00049205	MACHINING, SAFETY ENCLOSURE	
2	1	pcs	135235-5	A MCO-00041705	POWER SUPPLY, SWITCHING, 24V, 25W, 1.1AMP	
3	1	ea	122289-2	G ECO-00008543	POWER ENTRY MODULE ASSY, 11 IN LEADS	
4	1	pcs	33-207272-000	MCO-00042184	SWITCH, GREEN 22MM PANEL MOUNT, 24VDC, 2.5A	
5	1	pcs	33-207272-001	MCO-00042175	SWITCH, YELLOW 22MM PANEL MOUNT, 24VDC, 2.5A	
6	3	pcs	37-207295-000	MCO-00040777	CONNECTOR, M8-3S BH	
7	11	ea	121899-24	MCO-00012115	WIRE PIN TERMINAL, CRIMP, 24 AWG, LT BLU	NOT SHOWN
20	2	ea	119745-118	MCO-00046136	SCREW, PAN HD, PHIL, M3 X 8, S S	
21	4	ea	119973-128	MCO-00030005	SCREW, SOCKET HD, M5 X 20, SS.	
30	4	ea	114580-210	MCO-00046136	WASHER, FLAT, M3, SS.	
40	2	ea	120089-211	MCO-00023264	NUT, HEX, M3, SS.	
		pcs	62-166653	A.03 MCO-00049369	SAFETY CIRCUIT INTERFACE BOX ASSY	

Created By: Mike Needham

Create Time: 07/09/2020 11:47:16 AM PDT



PASS THRU
TIGHTEN NUT OTHER SIDE

ORACLE BOM Explosion Report

Item Number: 62-163093
Description: EQUIPMENT FRAME ASSY, T6000
Item Revision: A.03 MCO-00049369
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	pcs	97-163093	A.03 MCO-00049369	EQUIPMENT FRAME ASSY, T6000	
1	2	pcs	62-163095	A.01 MCO-00049343	SIDE FRAME ASSY, T6000	
2	2	ea	41-165173-A	02 MCO-00049204	WELDMENT, EQUIPMENT, FRAME, FRONT, T6000	
3	2	ea	41-163094-A	01 MCO-00049204	HOUSING, BEARING, ELEVATION, T6000	
4	1	ea	41-155283-A	03 ECO-00034666	BRACKET, ANGLE, ELEVATION, MOTOR MOUNTING, T4000	
5	2	ea	41-153076-A	02 ECO-00036113	BLOCK, STOP ELEVATION, T4000	
6	1	pcs	62-163194	A.01 MCO-00049343	TENSIONER ASSY, T6000	
7	1	ea	41-155284-A	01 MCO-00030803	BRACKET, ANGLE, TENSIONER, T4000	
8	1	pcs	62-164367	A.04 MCO-00049369	STEPPER MOTOR ASSY, T6000	
9	2	pcs	41-167339-A	01 MCO-00049205	PLATE, WEIGHT SUPPORT, T6000	
10	12	pcs	41-164814-A	01 MCO-00049616	PLATE, COUNTERWEIGHT, T6000	
11	1	ea	127788-1	A.02 ECO-00036548	KEY, PULLEY	
12	1	pcs	41-153075-A	01 MCO-00030803	PULLEY, ELEVATION, T4000	
14	2	pcs	41-153074-A	01 MCO-00030803	FLANGE, PULLEY, T4000	
16	1	pcs	41-207451-200	MCO-00027782	BELT, TIMING, GT2, 5MM, 200 GROOVE, 25MM W, KEVLAR	
18	2	pcs	41-207459-000	MCO-00027958	BEARING, DBL ROW, SELF ALIGNING, 45 MM ID, 85MM OD	
19	1	ea	41-153866-A	A.01 MCO-00030803	SPACER, ELEVATION PULLEY, T4000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-163093
Description: EQUIPMENT FRAME ASSY, T6000
Item Revision: A.03 MCO-00049369
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
20	1	ea	41-153867-A	A.01 MCO-00030803	WASHER, ELEVATION PULLEY, T4000	
40	2	ea	119973-117	MCO-00018237	SCREW, SOCKET HD, M4 X 12, SS.	
48	2	ea	114580-230	MCO-00039541	WASHER, FLAT, M4, SS.	
50	2	ea	119973-125	MCO-00037692	SCREW, SOCKET HD, M5 X 12, SS.	
51	4	ea	119973-128	MCO-00030005	SCREW, SOCKET HD, M5 X 20, SS.	
52	1	ea	119973-129	MCO-00012113	SCREW, SOCKET HD, M5 X 25, SS.	
56	2	ea	132074-010	MCO-00012114	WASHER, STAR, EXTERNAL TOOTH, #10, SS.	
57	1	ea	114581-240	MCO-00012113	WASHER, LOCK, M5, SS.	
58	7	ea	114580-240	MCO-00012113	WASHER, FLAT, M5, SS.	
59	1	ea	120089-241	MCO-00012113	NUT, HEX, M5, SS.	
60	8	ea	119973-135	MCO-00012113	SCREW, SOCKET HD, M6 X 16, SS.	
61	11	ea	119973-137	MCO-00012113	SCREW, SOCKET HD, M6 X 20, SS.	
62	12	ea	126657-240	MCO-00012113	SCREW, FLAT HD, SKT DRV, M6 X 20, SS	
63	12	ea	119745-116	MCO-00012113	SCREW, PAN HD, PHIL, M3 X 6, SS.	
64	8	ea	126657-244	MCO-00012115	SCREW, FLAT HD, SKT DRV, M6 X 30, SS	
65	8	ea	114589-136	MCO-00012113	SCREW, HEX HD M6X16	
68	11	ea	114580-250	MCO-00031530	WASHER, FLAT, M6, SS.	
70	16	ea	114589-152	MCO-00012113	SCREW, HEX HD M8X20	
78	16	ea	114580-270	MCO-00012113	WASHER, FLAT, M8, SS.	
90	2	ea	114589-187	MCO-00044384	SCREW, HEX HD, M12X20, SS	
91	1	ea	53-207158-000	MCO-00044247	WASHER, FLAT, M12, OVERSIZED, 37MM OD	
97	REF	ea	114580-290	MCO-00012113	WASHER, FLAT, M12, SS.	
98	REF	ea	120089-420	MCO-00012113	NUT, HEX, M12, SS.	
99	REF	ea	51-207539-000	MCO-00044906	SCREW, SOCKET HEAD, M12X180	
100	2	ea	41-167295-A	02 MCO-00049205	INTERFACE PLATE, WEIGHT,74 LBS, T6000	
101	REF	ea	41-168879-A	01 MCO-00049205	UNISTRUT, 1 5/8 IN X 1 5/8 CHANNEL 18IN LG, T6000	
102	REF	pcs	52-207165-000	MCO-00042884	NUT, UNISTRUT CHANNEL, 1-5/8 IN, 1/4-20 THREAD	
103	REF	ea	114593-209	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 1, SS.	
104	REF	ea	114593-212	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 1-3/4, SS.	
105	REF	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	

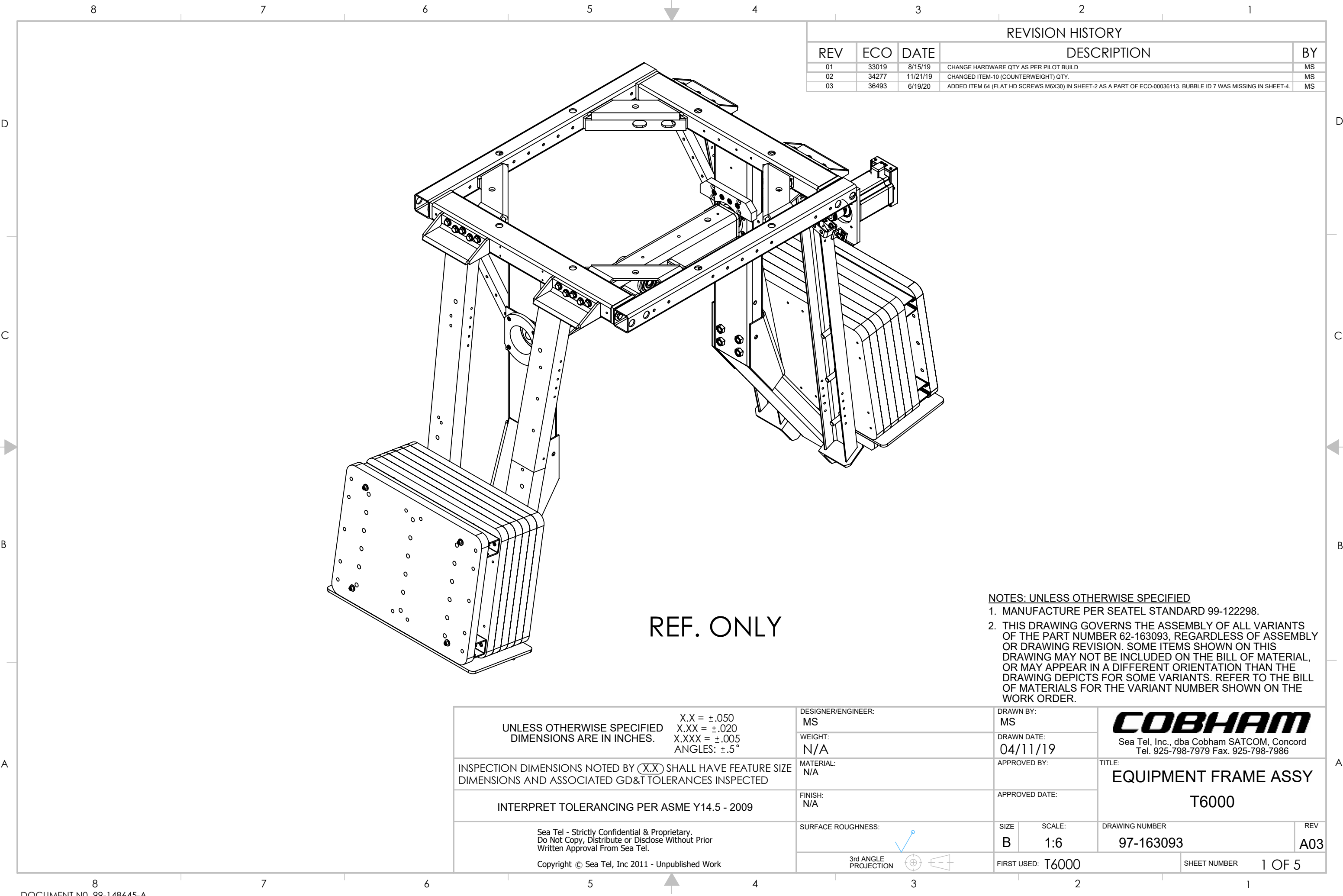
Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT

ORACLE BOM Explosion Report

Item Number: 62-163093
Description: EQUIPMENT FRAME ASSY, T6000
Item Revision: A.03 MCO-00049369
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
106	REF	ea	114625-107	MCO-00047258	WASHER, FENDER, 1/4, (1 IN OD), SS.	
		pcs	62-163093	A.03 MCO-00049369	EQUIPMENT FRAME ASSY, T6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
01	33019	8/15/19	CHANGE HARDWARE QTY AS PER PILOT BUILD	MS
02	34277	11/21/19	CHANGED ITEM-10 (COUNTERWEIGHT) QTY.	MS
03	36493	6/19/20	ADDED ITEM 64 (FLAT HD SCREWS M6X30) IN SHEET-2 AS A PART OF ECO-00036113. BUBBLE ID 7 WAS MISSING IN SHEET-4.	MS

- NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
 2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-163093, REGARDLESS OF ASSEMBLY OR DRAWING REVISION. SOME ITEMS SHOWN ON THIS DRAWING MAY NOT BE INCLUDED ON THE BILL OF MATERIAL, OR MAY APPEAR IN A DIFFERENT ORIENTATION THAN THE DRAWING DEPICTS FOR SOME VARIANTS. REFER TO THE BILL OF MATERIALS FOR THE VARIANT NUMBER SHOWN ON THE WORK ORDER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.	X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5°	DESIGNER/ENGINEER: MS	DRAWN BY: MS		COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986		
	WEIGHT: N/A	DRAWN DATE: 04/11/19					
INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED	MATERIAL: N/A	APPROVED BY:		TITLE: EQUIPMENT FRAME ASSY T6000			
	FINISH: N/A	APPROVED DATE:					
INTERPRET TOLERANCING PER ASME Y14.5 - 2009		SURFACE ROUGHNESS:		SIZE B	SCALE: 1:6	DRAWING NUMBER 97-163093	REV A03
Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel.		3rd ANGLE PROJECTION		FIRST USED: T6000		SHEET NUMBER	1 OF 5
Copyright © Sea Tel, Inc 2011 - Unpublished Work							

RIGHT SIDE EL BEAM
(ELEVATION MOTOR SIDE)

ITEM-1 (62-163095) CAN
BE ASSEMBLED LATER
FOR CONVENIENCE

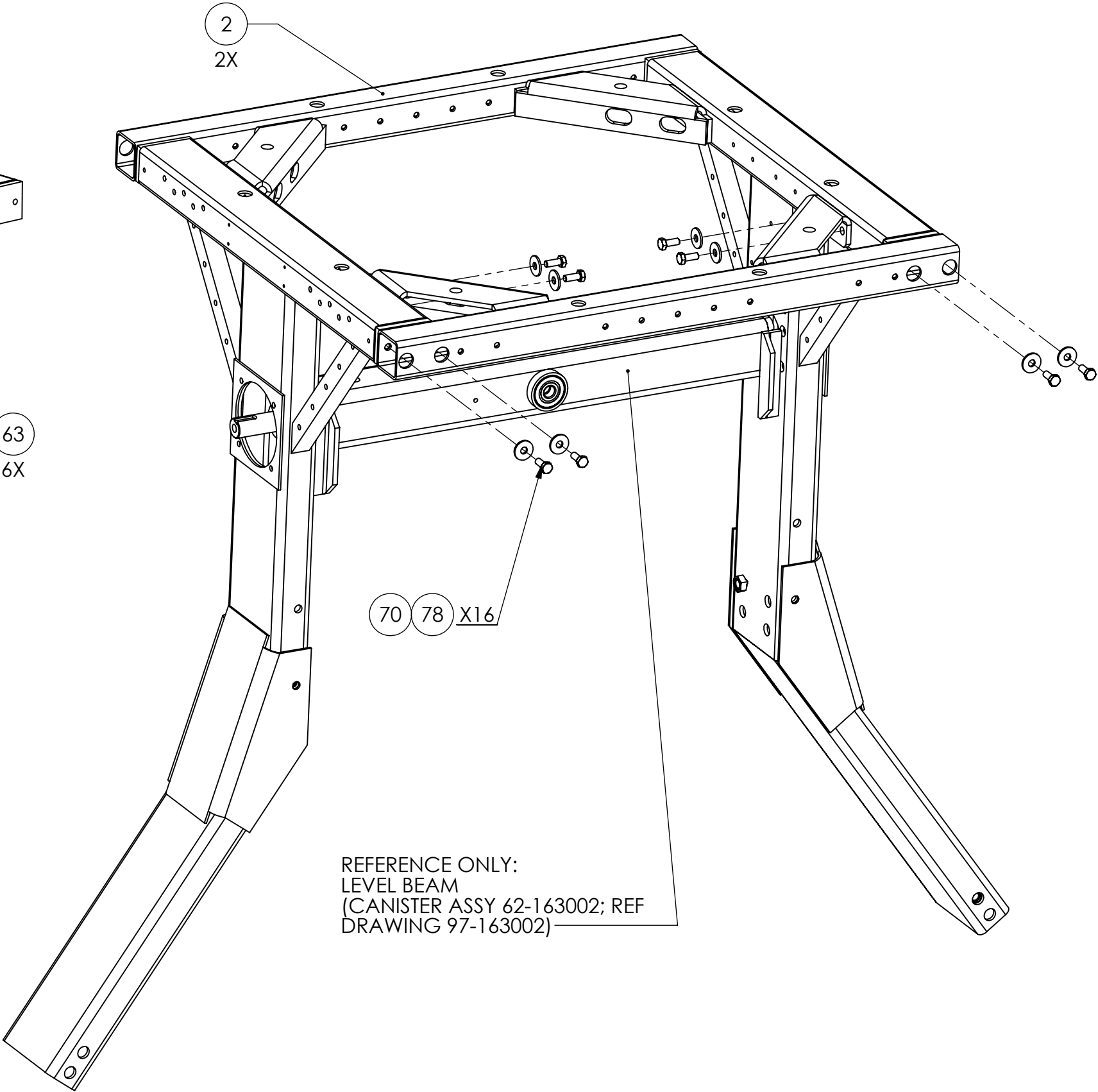
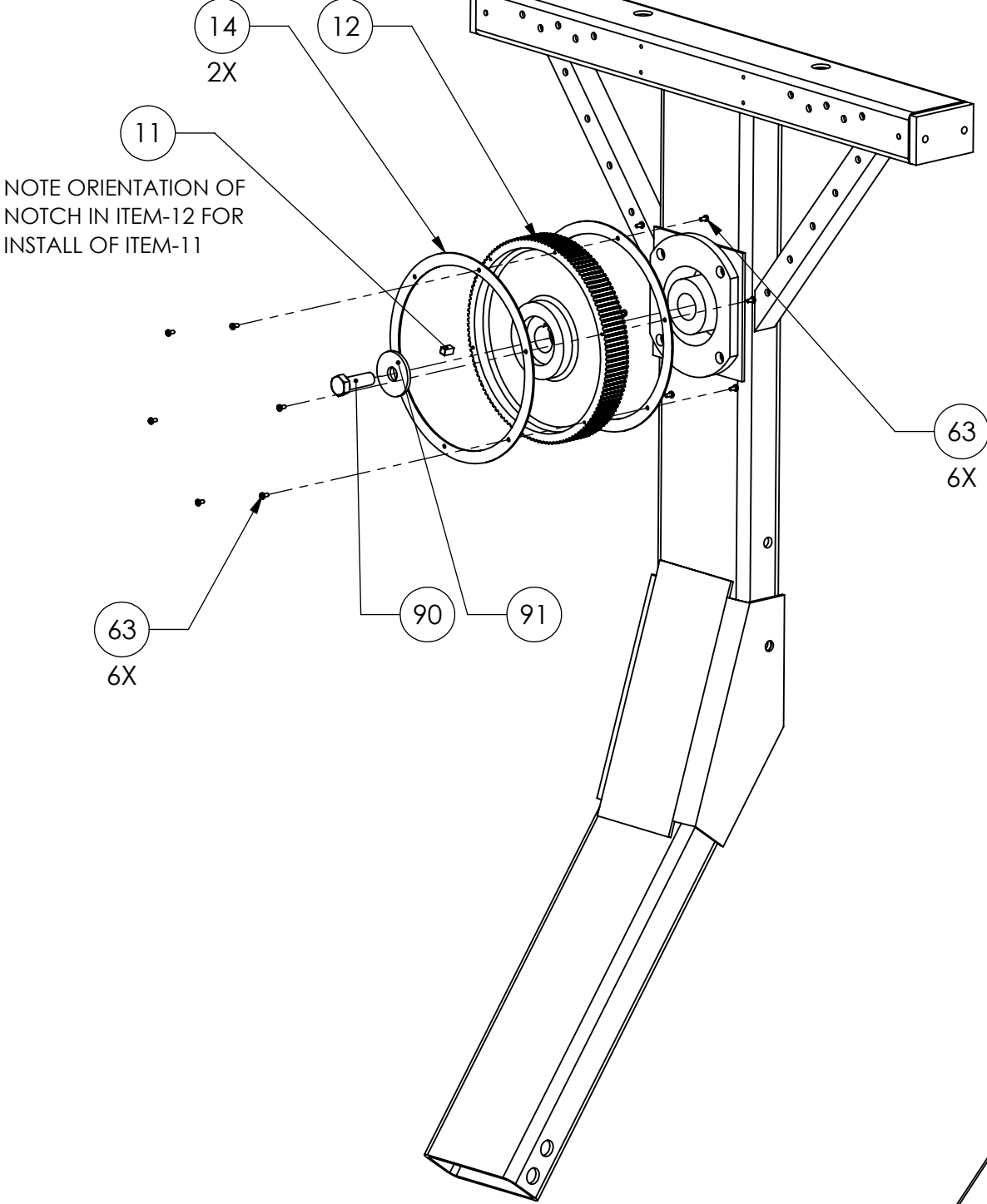
LEFT SIDE EL BEAM.
SAME AS RIGHT EL BEAM EXCEPT
NO ITEM-19

-LEVEL BEAM (REF ONLY)
-COMPLETE CANSITER ASSY (62-163002)
NOT SHOWN FOR CLARITY.
-MOUNT BOTH LEFT AND RIGHT EL BEAM
ON CANISTER ASSY 62-163002 (REF
DRAWING 97-163002)

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:6	97-163093	A03
		SHEET NUMBER	2 OF 5

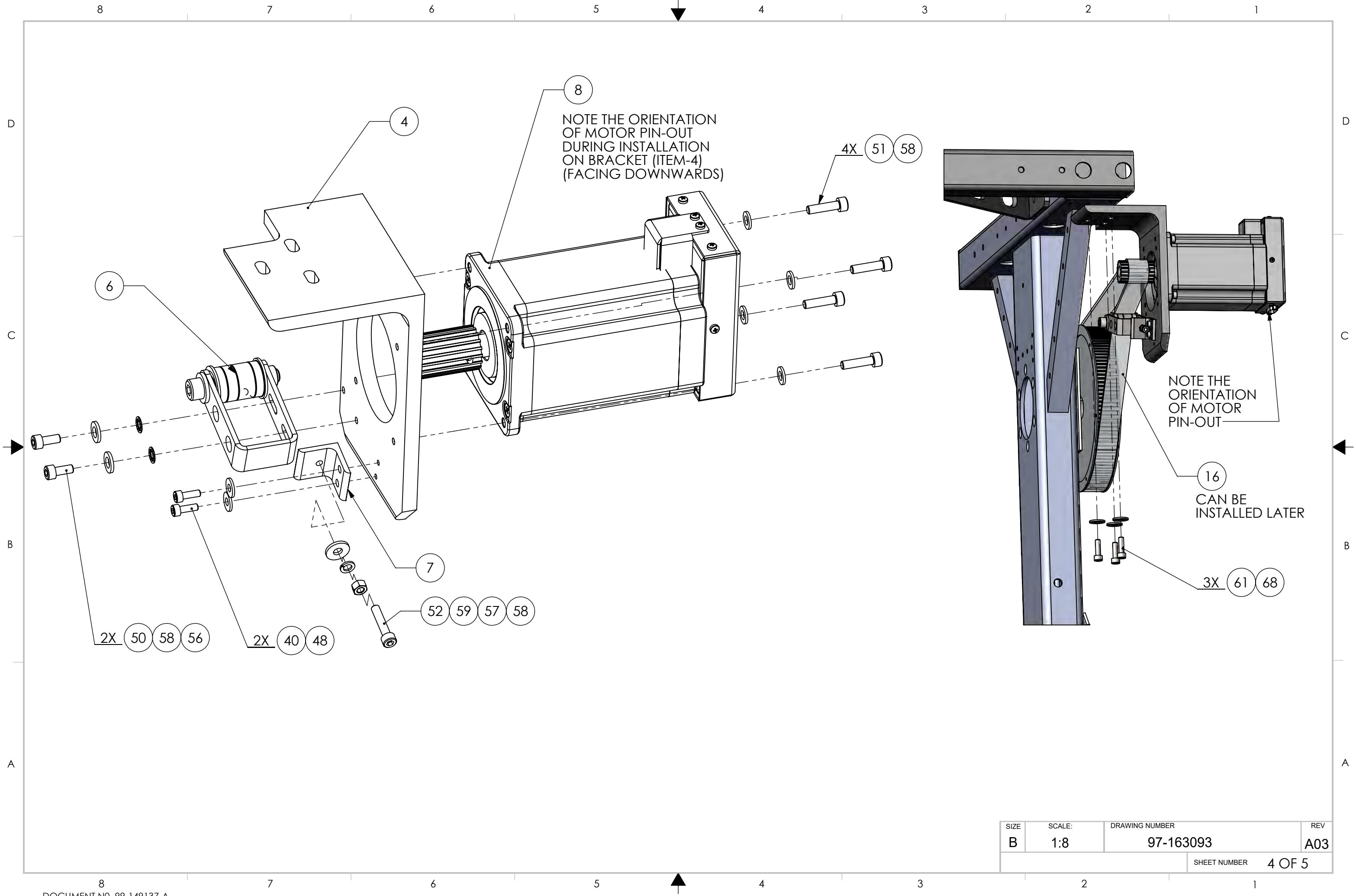
RIGHT SIDE EL BEAM
(ELEVATION MOTOR SIDE)

D
C
B
A



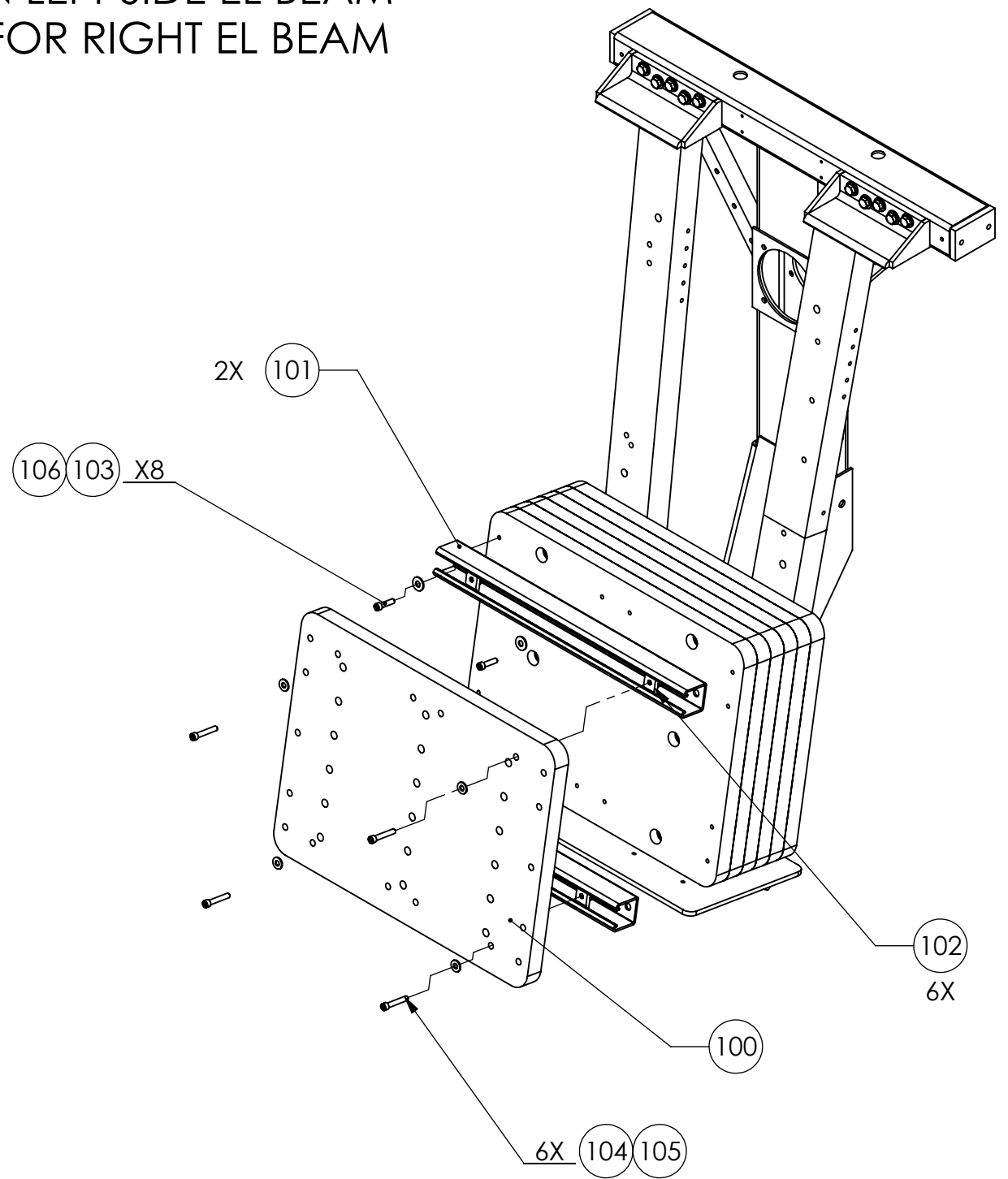
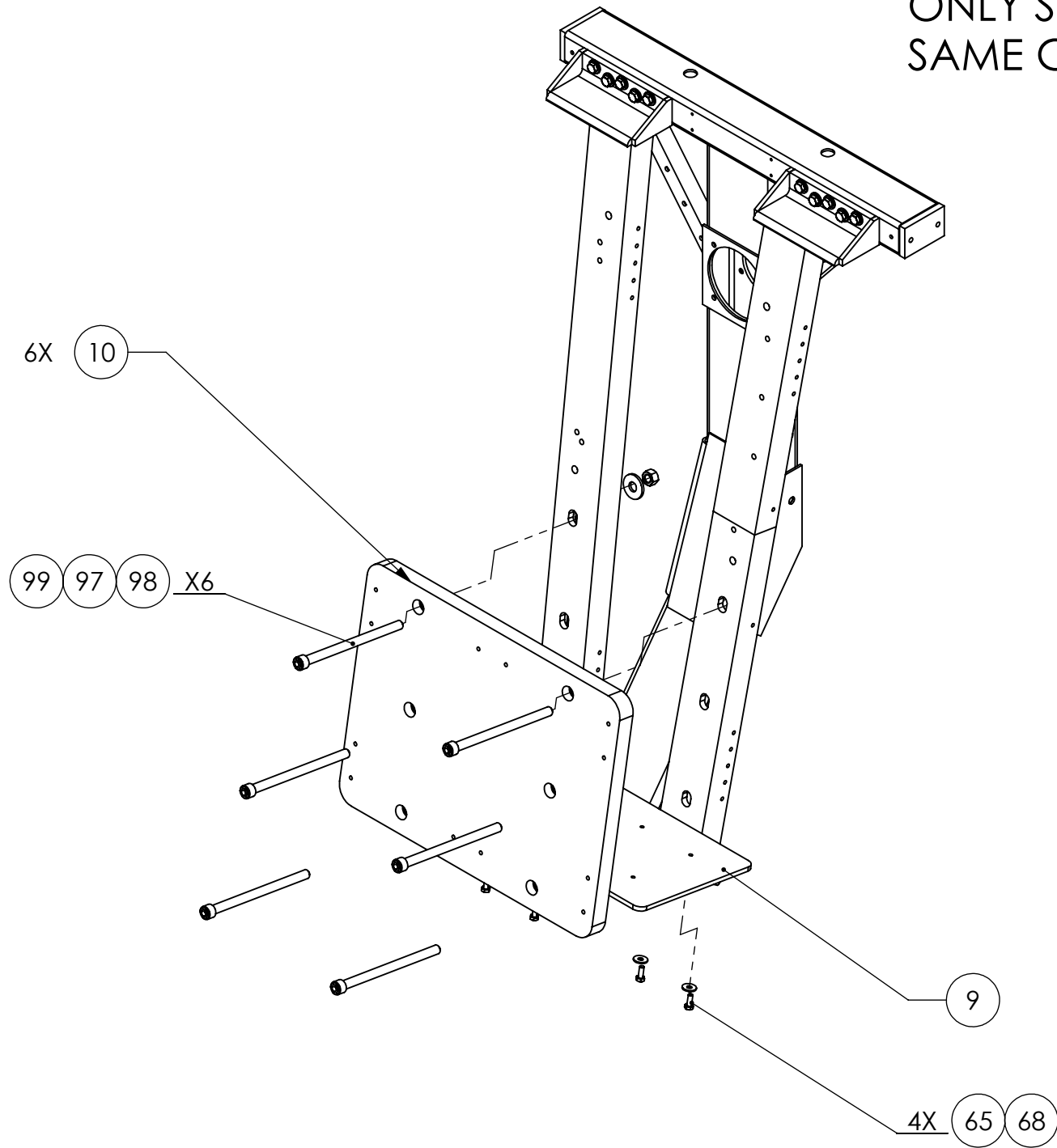
D
C
B
A

SIZE	SCALE:	DRAWING NUMBER	REV
B	1:8	97-163093	A03
		SHEET NUMBER	3 OF 5



SIZE	SCALE:	DRAWING NUMBER	REV
B	1:8	97-163093	A03
		SHEET NUMBER	4 OF 5

ONLY SHOWN LEFT SIDE EL BEAM
SAME GOES FOR RIGHT EL BEAM

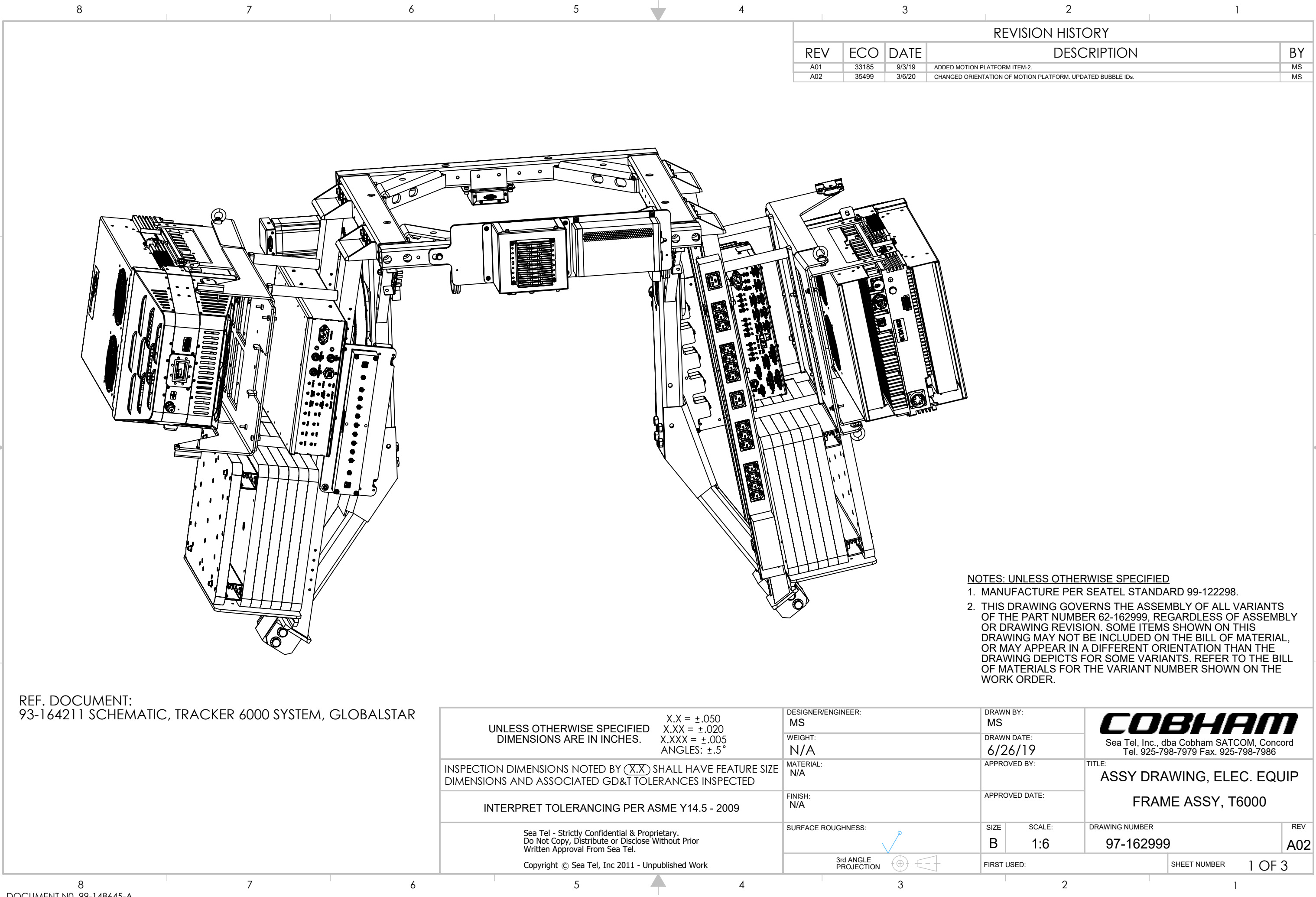


ORACLE BOM Explosion Report

Item Number: 62-162999
Description: ELECT. EQUIP. FRAME ASSY, T6000
Item Revision: A.15 MCO-00049599
Date as of: 07/09/2020 11:46:54 AM PDT

Find Num	Qty	Inventory Unit (LN6)	Number	Rev	Description / Title	BOM Notes
0	REF	ea	97-162999	A.02 MCO-00049343	ASSY DRAWING, ELECT. EQUIP FRAME ASSY, T6000	
1	1	pcs	62-171082	A MCO-00049599	POWER MONITOR AND RTU TESTED	
2	1	pcs	62-166977	A.01 MCO-00049240	ICU AND POWER SUPPLY MOUNTING ASSY, T6000	
3	2	pcs	62-167671	A.02 MCO-00049240	BUC MOUNTING ASSY, 300W BUC, T6000	
4	2	pcs	62-167085	A.01 MCO-00049240	COAX FILTER ASSEMBLY, T6000	
5	1	pcs	62-165241	A.02 MCO-00049561	POWER DISTRIBUTION ASSY, EQ FRAME, T6000	
6	1	pcs	62-166978	A.04 MCO-00049240	INTERFACE MOUNTING ASSY, T6000	
7	1	pcs	62-168745	A.01 MCO-00049240	MOTION PLATFORM ASSY, T6000	
30	1	pcs	62-168832	A.05 MCO-00049240	HARNESS KIT, TRACKER 6000	
50	4	ea	119973-138	MCO-00012113	SCREW, SOCKET HD, M6 X 25, SS.	
58	4	ea	114580-250	MCO-00031530	WASHER, FLAT, M6, SS.	
60	4	ea	114586-535	MCO-00012113	SCREW, HEX HD, 1/4-20 x 1/2, SS.	
61	4	ea	114593-206	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 5/8, SS.	
62	6	ea	114593-207	MCO-00012113	SCREW, SOCKET HD, 1/4-20 x 3/4, SS.	
63	2	ea	114586-545	MCO-00012113	SCREW, HEX HD, 1/4-20 x 2-1/2, SS.	
64	2	ea	114586-546	MCO-00012113	SCREW, HEX HD, 1/4-20 x 2-3/4, SS.	
68	22	ea	114580-029	MCO-00012113	WASHER, FLAT, 1/4, SS.	
69	4	ea	114583-029	MCO-00012113	NUT, HEX, 1/4-20, SS.	
70	4	ea	114593-307	MCO-00012113	SCREW, SOCKET HD, 3/8-16 x 1, SS.	
78	4	ea	114580-031	MCO-00012114	WASHER, FLAT, 3/8, SS.	
		pcs	62-162999	A.15 MCO-00049599	ELECT. EQUIP. FRAME ASSY, T6000	

Created By: Mike Needham
Create Time: 07/09/2020 11:47:16 AM PDT



REVISION HISTORY				
REV	ECO	DATE	DESCRIPTION	BY
A01	33185	9/3/19	ADDED MOTION PLATFORM ITEM-2.	MS
A02	35499	3/6/20	CHANGED ORIENTATION OF MOTION PLATFORM. UPDATED BUBBLE IDs.	MS

REF. DOCUMENT:
93-164211 SCHEMATIC, TRACKER 6000 SYSTEM, GLOBALSTAR

- NOTES: UNLESS OTHERWISE SPECIFIED
1. MANUFACTURE PER SEATEL STANDARD 99-122298.
 2. THIS DRAWING GOVERNS THE ASSEMBLY OF ALL VARIANTS OF THE PART NUMBER 62-162999, REGARDLESS OF ASSEMBLY OR DRAWING REVISION. SOME ITEMS SHOWN ON THIS DRAWING MAY NOT BE INCLUDED ON THE BILL OF MATERIAL, OR MAY APPEAR IN A DIFFERENT ORIENTATION THAN THE DRAWING DEPICTS FOR SOME VARIANTS. REFER TO THE BILL OF MATERIALS FOR THE VARIANT NUMBER SHOWN ON THE WORK ORDER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. X.X = ±.050 X.XX = ±.020 X.XXX = ±.005 ANGLES: ±.5°	DESIGNER/ENGINEER: MS	DRAWN BY: MS		COBHAM Sea Tel, Inc., dba Cobham SATCOM, Concord Tel. 925-798-7979 Fax. 925-798-7986	
	WEIGHT: N/A	DRAWN DATE: 6/26/19			
INSPECTION DIMENSIONS NOTED BY (X.X) SHALL HAVE FEATURE SIZE DIMENSIONS AND ASSOCIATED GD&T TOLERANCES INSPECTED	MATERIAL: N/A	APPROVED BY:		TITLE: ASSY DRAWING, ELEC. EQUIP FRAME ASSY, T6000	
	FINISH: N/A	APPROVED DATE:			
INTERPRET TOLERANCING PER ASME Y14.5 - 2009	SURFACE ROUGHNESS:	SIZE B	SCALE: 1:6	DRAWING NUMBER 97-162999	REV A02
Sea Tel - Strictly Confidential & Proprietary. Do Not Copy, Distribute or Disclose Without Prior Written Approval From Sea Tel.	3rd ANGLE PROJECTION		FIRST USED:	SHEET NUMBER	1 OF 3
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