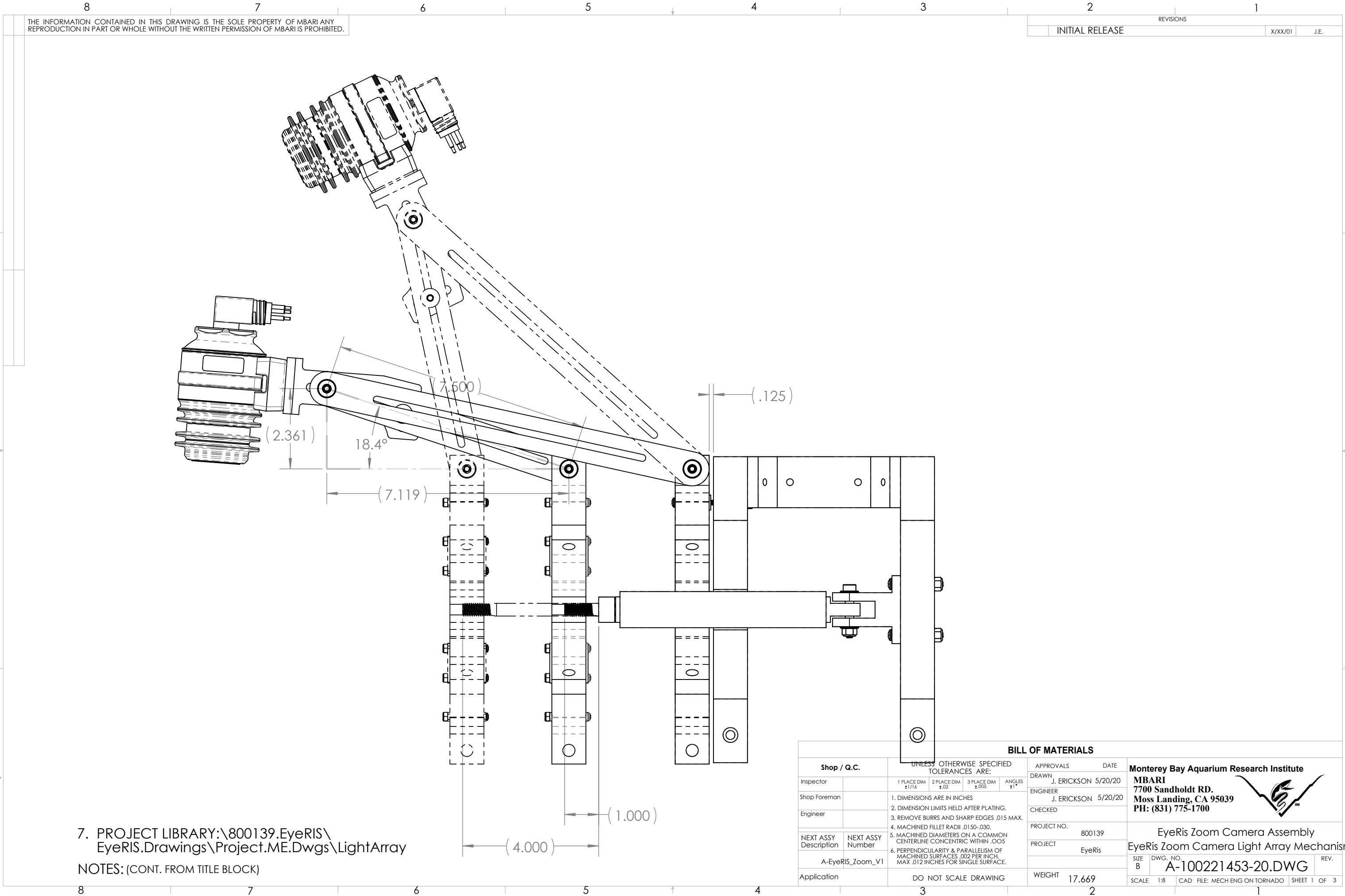




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REVISIONS		
INITIAL RELEASE	X/XX/01	J.E.

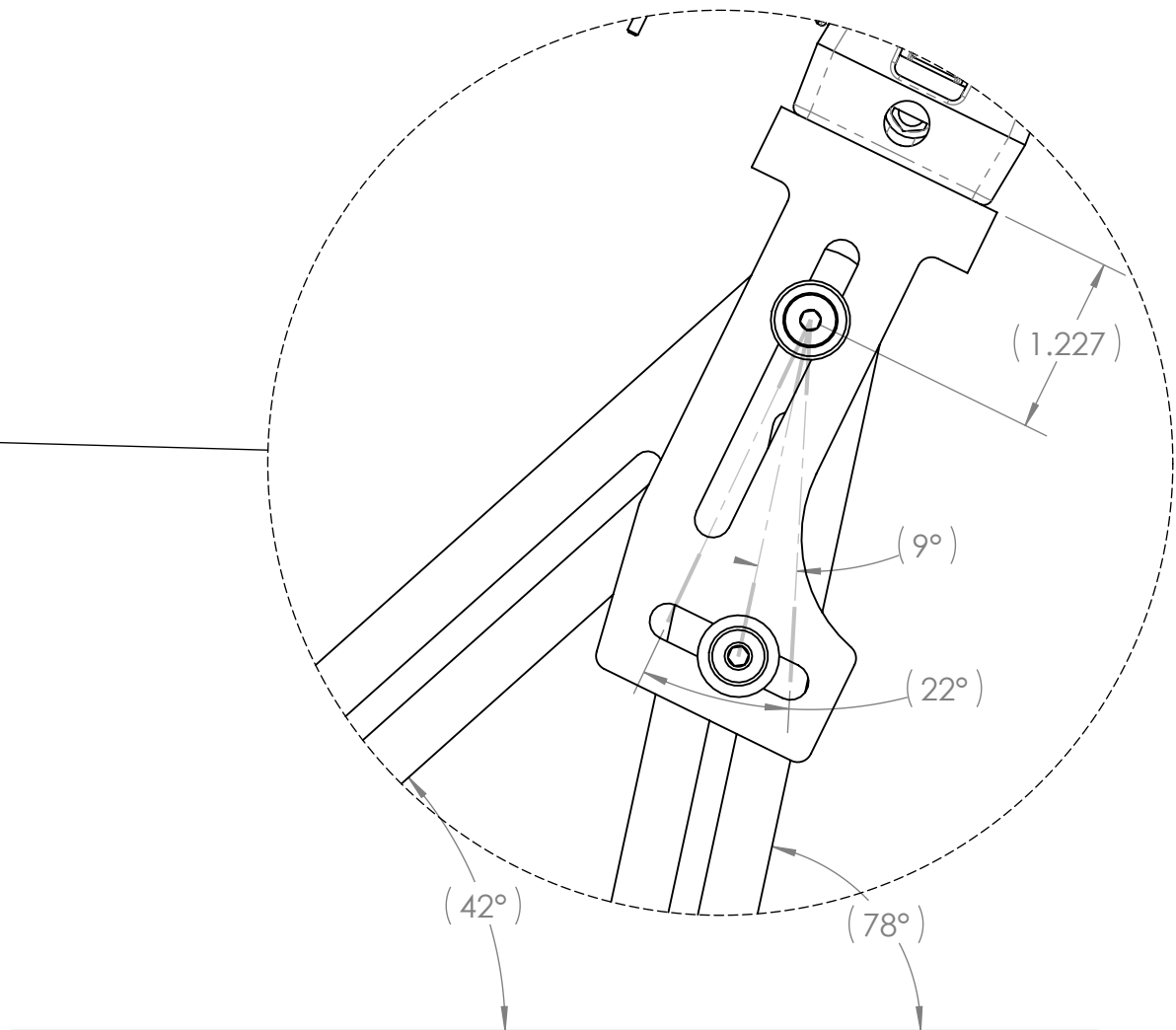
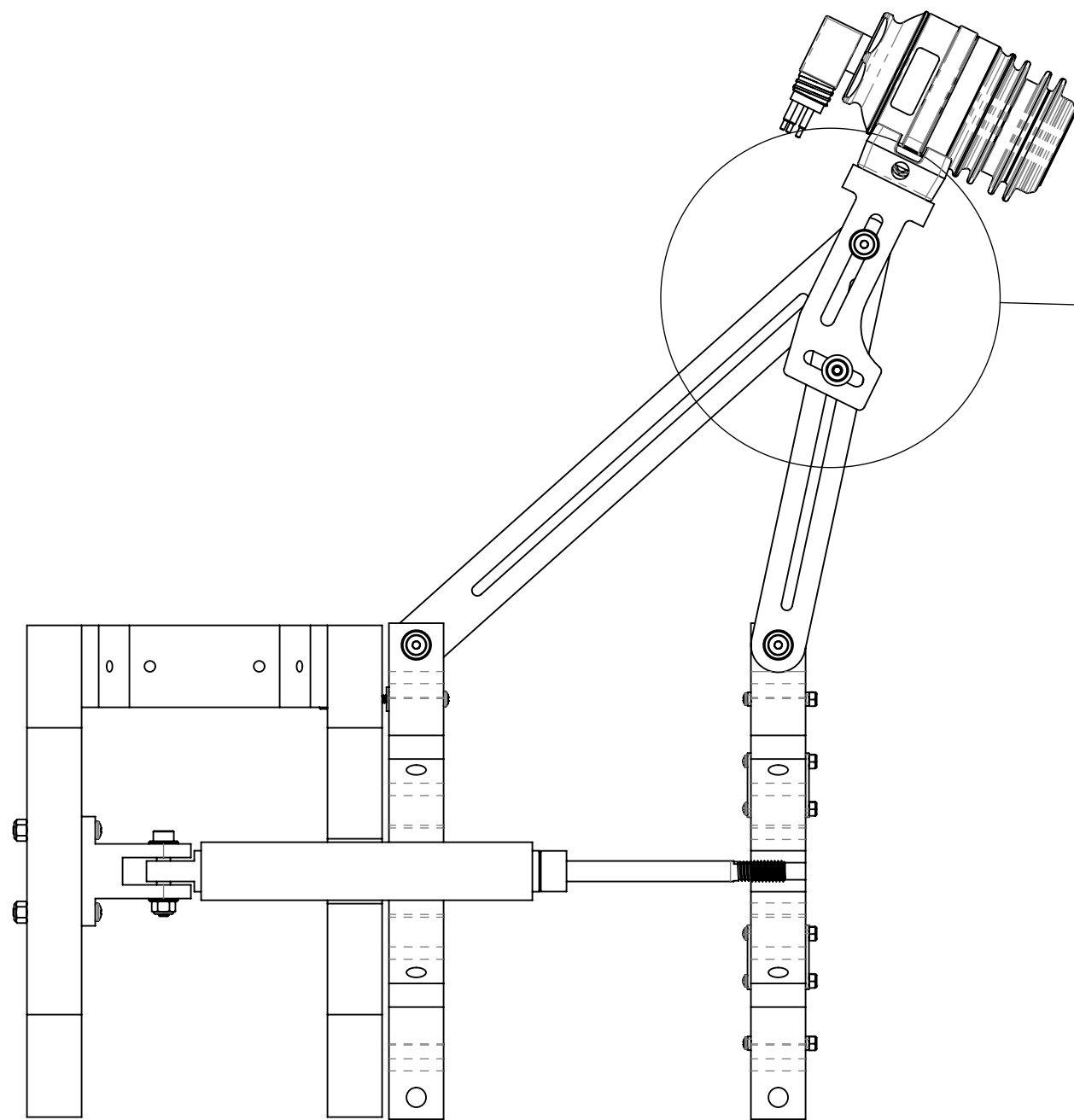
7. PROJECT LIBRARY:\800139.EyeRIS\
EyeRIS.Drawings\Project.ME.Dwgs\LightArray
NOTES: (CONT. FROM TITLE BLOCK)

BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	J. ERICKSON	5/20/20	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER	J. ERICKSON	5/20/20	
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	800139		
A-EyeRIS_Zoom_V1						PROJECT	EyeRis		EyeRis Zoom Camera Assembly
Application		DO NOT SCALE DRAWING				WEIGHT	17.669	EyeRis Zoom Camera Light Array Mechanism	
						SIZE B	DWG. NO. A-100221453-20.DWG	REV.	
						SCALE 1:8	CAD FILE: MECH ENG ON TORNADO	SHEET 1 OF 3	

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

EyeRis Zoom Camera Assembly
EyeRis Zoom Camera Light Array Mechanism

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



DETAIL A
SCALE 1 : 1.3

7. PROJECT LIBRARY:\800139.EyeRIS\EyeRIS.Drawings\Project.ME.Dwgs\LightArray

NOTES: (CONT. FROM TITLE BLOCK)

BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITH .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER MAX .012 INCHES FOR SINGLE SURFACE.			
Engineer					
NEXT ASSY Description	NEXT ASSY Number				
A-EyeRIS_Zoom_V1					
Application		DO NOT SCALE DRAWING		WEIGHT	9.007 lb.
				DRAWN J. ERICKSON	5/20/20
				ENGINEER J. ERICKSON	5/20/20
				CHECKED	
				PROJECT NO.	800139
				PROJECT	EyeRis
				SIZE B	DWG. NO. A-100221453-20.DWG
				SCALE 1:16	CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 3

8

7

6

5

4

3

2

1

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REV.

DESCRIPTION

DATE

APPROVED

INITIAL RELEASE

X/XX/00

J.E.

32

2

P-100221467-20

Allen Air Cyl. Heel Bracket

0.432

MBARI

AISI 316

31

1

90715A007

#6-32 Nylok Nut

0.003

McMaster-Carr

AISI 316

30

1

95630A438

#6 Flat Washer

0.00

McMaster-Carr

PTFE (general)

29

1

91735A328

#6-32 x 2.5L Pan Hd Phill

0.01

McMaster-Carr

AISI 316

28

1

P-201823-20

Alternate Handle Mount V2

0.858

MBARI

POM Delrin (Black)

27

4

90715A009

#8-32 Nylok Nut

0.005

McMaster-Carr

AISI 316

26

4

91735A208

#8-32 x 1.5L Pan Hd Phill

0.01

McMaster-Carr

AISI 316

25

1

90715A115

#10-32 Nylok Nut

0.006

McMaster-Carr

AISI 316

24

1

94035A185

1/4 x 1.125-10-32 Sloulder Screw

0.023

AISI 304

23

2

XXXXXXXXXX

22

2

SSE-7/8-3-WR

Allen Air 7/8 Cylinder Body 7/8 x 3

Allen Air

21

1

P-201803-20

Camera Bracket V2_EyeRis

1.529

MBARI

PE UHMW

20

1

P-201803-20

Camera Bracket V2_EyeRis_Cutouts

1.450

MBARI

PE UHMW

19

1

90909A525

#10-32x1.0 Flng Button Hd

0.009

McMaster-Carr

AISI 316

18

3

95630A455

#10 PTFE Flat Washer

0.00

McMastr-Carr

PTFE (general)

17

6

P-100221460-20

SeaLight Bracket

0.165

MBARI

6061-T6 Alloy

16

6

MCBH-5M-RA

5 Pin Male Conn

SubConn

15

6

LED SeaLite Spot Acrylic-Alum & Saddle Bracket

Deep Sea Power & Light

14

1

94035A546

1/4 x 1.5L #10-32 Shoulder Screw

0.028

McMaster-Carr

AISI 304

13

1

95136A250

1/4 Bore Spacer

0.01

McMaster-Carr

PTFE (general)

12

2

94035A184

1/4 x .875L #10-32 Shoulder Screw

0.020

McMaster-Carr

AISI 304

11

6

P-100221457-20

Lightt Array Mechanism Long Arm

0.242

MBARI

6061-T6 Alloy

10

15

93835A360

Flange Shoulder Washer

0.00

McMaster-Carr

PTFE (general)

9

6

100221458-20

Light Array Short Arm

0.166

MBARI

6061-T6 Alloy

8

12

90715A005

#4-40 NYLOK Nut

0.002

McMaster-Carr

AISI 316

7

12

91735A302

#4-40 x 1-1/4L Pan Hd Phill

0.00

McMaster-Carr

AISI 316

6

12

P-100221456-20

Roller Retainer Plate

0.005

MBARI

AISI 316

5

6

7521T31

Turcite-X Plastic Rod Roller

0.000

McMaster-Carr

Material <not specified>

4

6

97395A403

1/16 Dia. Dowel Pin

0.00

McMaster-Carr

AISI 316

3

6

P-100221454-20

EyeRis Light Array Roller Mount

0.017

MBARI

AISI 316

2

1

P-100221455-20

6 Leg Spider Light Array Bracket V3

0.517

MBARI

POM Acetal Copolymer

1

1

P-100221459-20

Spider Bracket V3_Clamped

0.498

MBARI

POM Acetal Copolymer

ITEM NO.

QTY.

Part_Number

DESCRIPTION

Revision

Weight

Vendor

MATERIAL

3

2

1

Shop / Q.C.

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

APPROVALS DATE

Inspector

1 PLACE DIM ±1/16

2 PLACE DIM ±.02

3 PLACE DIM ±.005

ANGLES ±1°

DRAWN J. ERICKSON 5/20/20

Shop Foreman

1. DIMENSIONS ARE IN INCHES

2. DIMENSION LIMITS HELD AFTER PLATING.

3. REMOVE BURRS AND SHARP EDGES .015 MAX.

4. MACHINED FILLET RADII .0150-.030.

5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005

6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.

ENGINEER J. ERICKSON 5/20/20

Engineer

PROJECT NO. 800139

NEXT ASSY Description

NEXT ASSY Number

PROJECT EyeRis

Application

DO NOT SCALE DRAWING

WEIGHT 17.669 lb.

Monterey Bay Aquarium Research Institute

MBARI

7700 Sandholdt RD.

Moss Landing, CA 95039

PH: (831) 775-1700



EyeRis Zoom Camera Assembly

EyeRis Zoom Camera Light Array Mechanism

SIZE DWG. NO. A-100221453-20.DWG

SCALE 1:16 CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 3

7. PROJECT LIBRARY:\800139.EyeRIS\EyeRIS.Drawings\Project.ME.Dwgs\LightArray

NOTES: (CONT. FROM TITLE BLOCK)