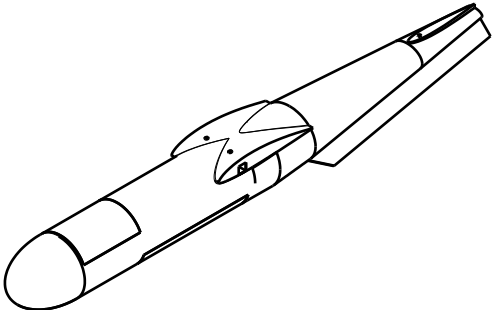


Isometric view  
Scale: 1:10

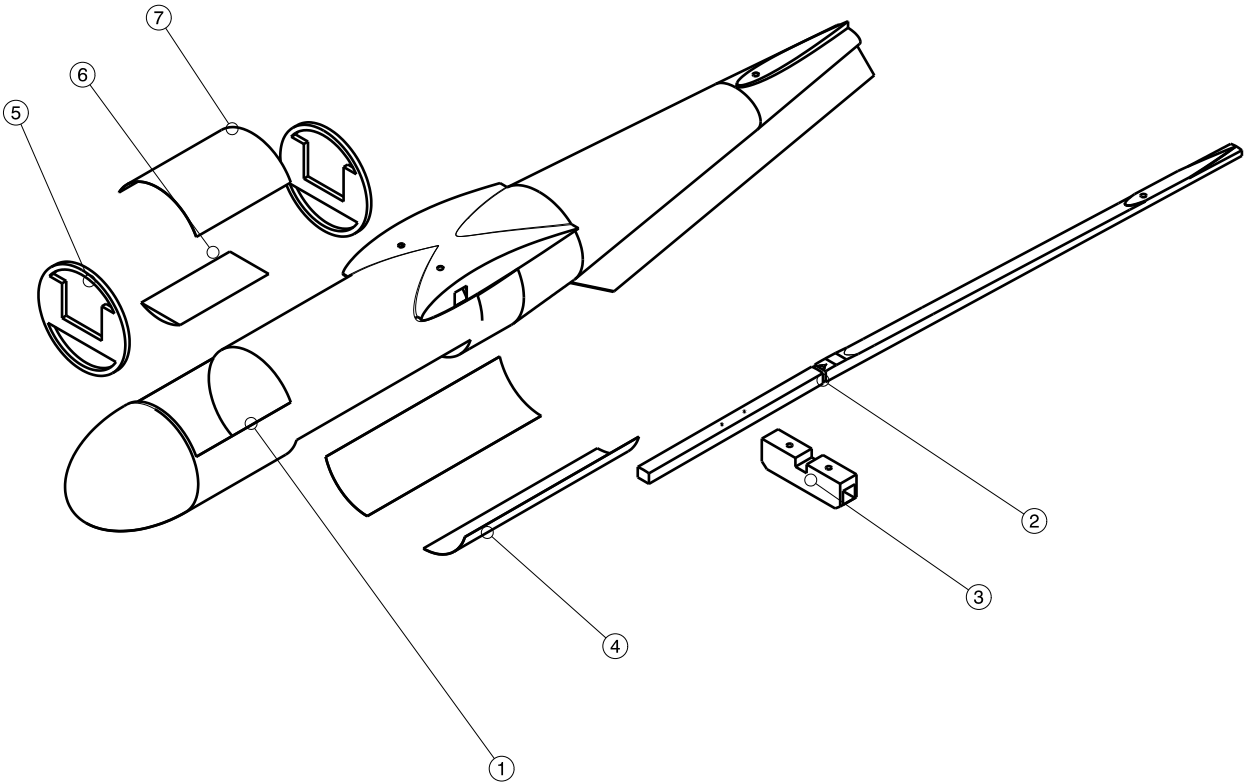
### Bill of Materials

Part Number	Part Name	Manufacturer	Quantity
1	Fuselage Assy.	-	1
2	Left Wing Assy.	-	1
3	Right Wing Assy.	-	1
4	Tail Assy.	-	1
5	Payload System Assy.	-	1
6	Electronics Bay Assy.	-	1
7	Payload Bay Door	-	2
8	Electronics Bay Door	-	1
9	Wing Spar Box	-	1
10	Motor Mount Plate	SunnySky USA	2
11	X4125 V3 280-kV Motor	SunnySky USA	2
12	18x12e Propeller	APC Propellers	2

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Whole Aircraft Assembly		G	-
DATE: 10/18/2023				F	-
SIZE C				E	-
SCALE 1:6	WEIGHT (LBS) 31.25	DRAWING NUMBER CALYPS0-01-00	SHEET 1/1	D	-
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				B	-
				A	-



Isometric view  
Scale: 1:10



Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	Fuselage Shell	-	1
2	Composite Spine	-	1
3	Wing Spar Box	-	1
4	Payload Bay Door	-	2
5	Electronics Bay Bulkhead	-	2
6	Electronics Bay Floor	-	1
7	Electronics Bay Door	-	1

DESIGNED BY:  
Project Calypso

DATE:  
10/18/2023

CHECKED BY:  
Tyler Phillips

DATE:  
10/18/2023

SIZE  
C

SCALE  
1:6

WEIGHT (LB)  
6.5

DRAWING NUMBER  
CALYPS0-01-01

SHEET  
1 / 1

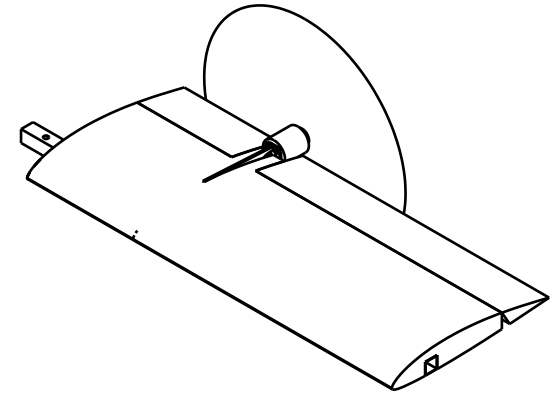
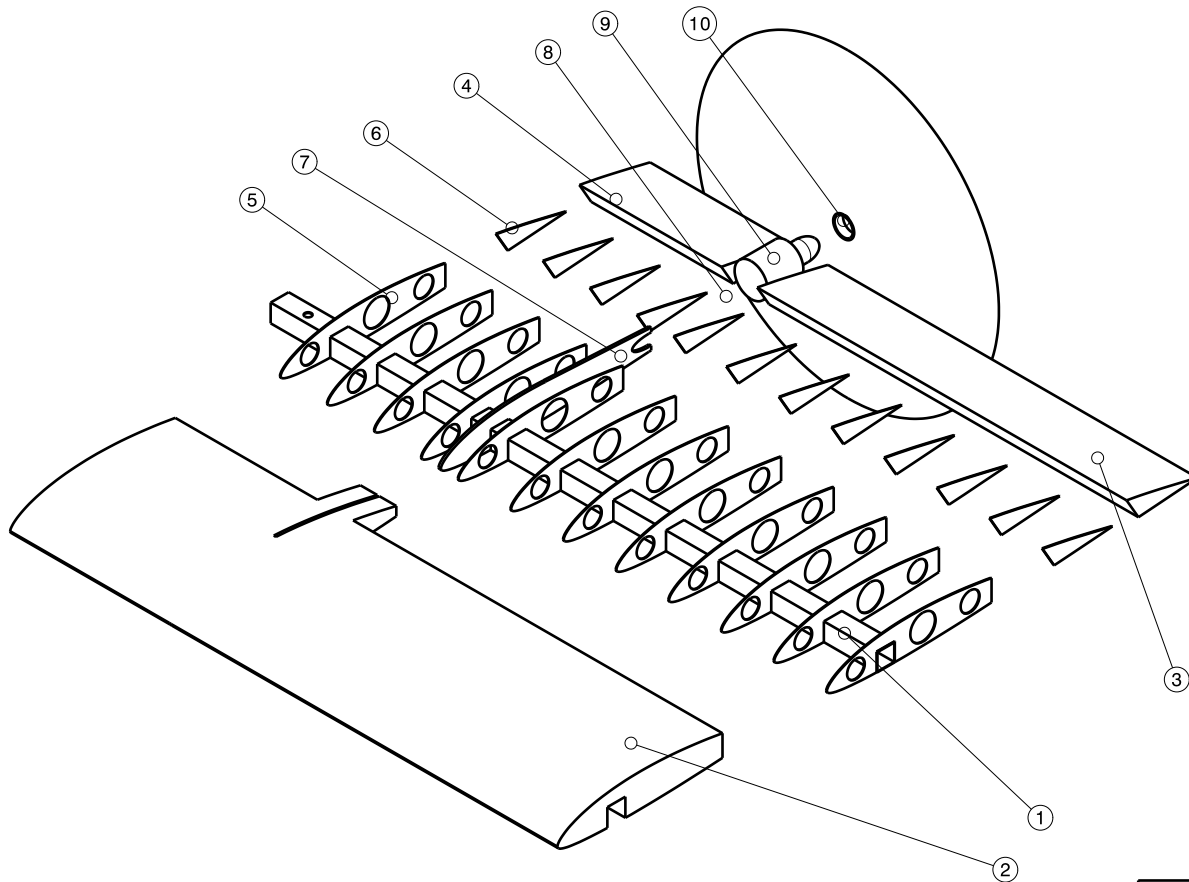
EMBRY-RIDDLE  
Aeronautical University

Fuselage Assembly

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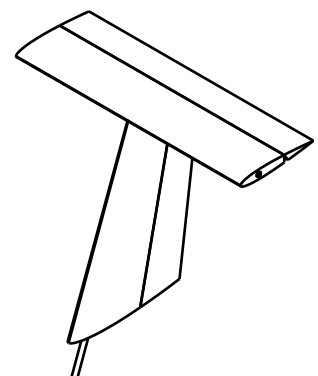
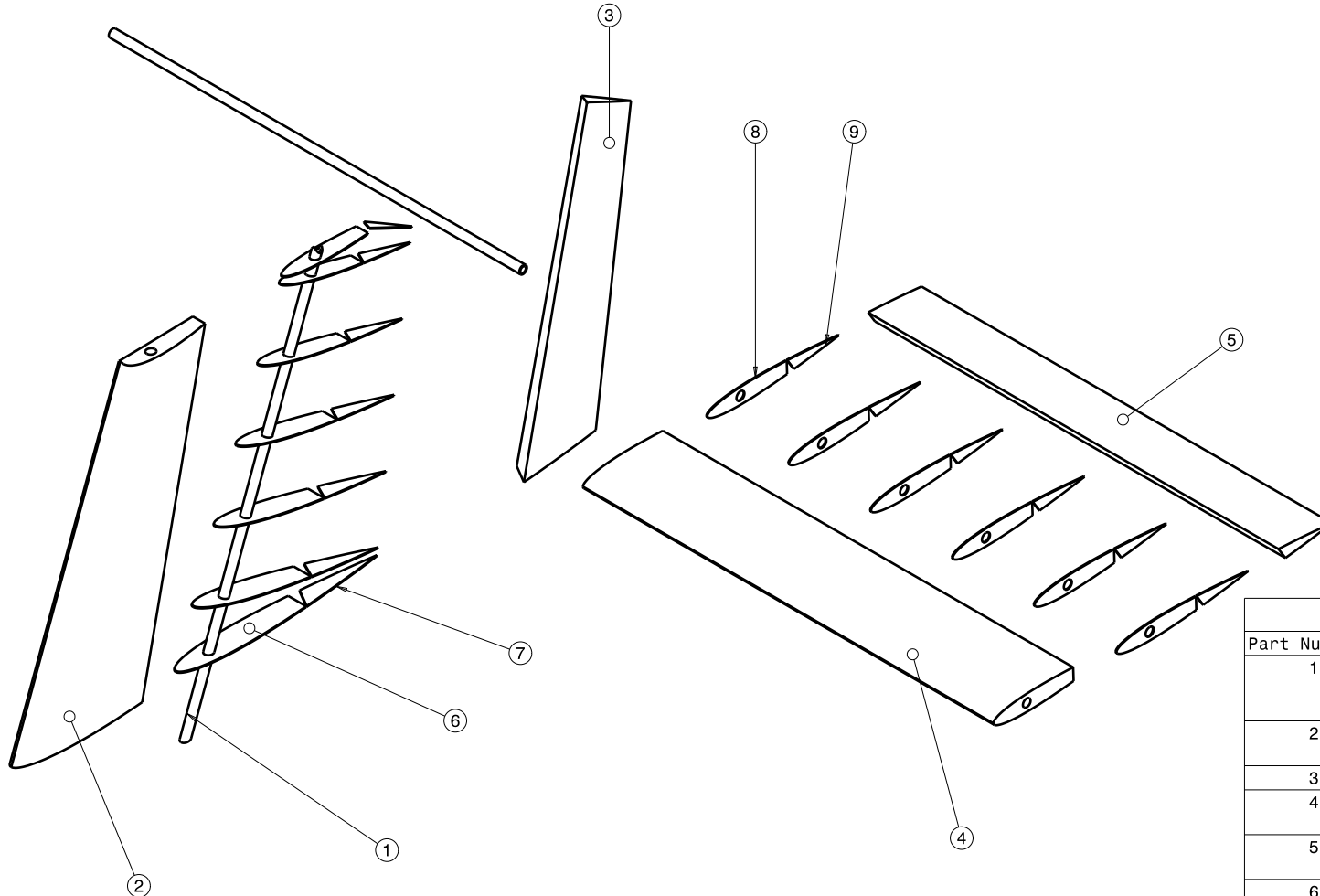
Isometric view  
Scale: 1:6

Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	1.07" Square 0.035" Wall CF Tube	Clearwater Composites	1
2	Wing Shell	-	1
3	Flaperon Shell	-	1
4	Flap Shell	-	1
5	Wing Rib	-	12
6	Flap Rib	-	12
7	Motor Mount Rib	-	1
8	Motor Mount	SunnySky USA	1
9	X4125 V3 480-kV Motor	SunnySky USA	1
10	18x12e Propeller	APC Propellers	1

NOTE: Right wing is a mirror of left.  
Only unique part between wings is the wing shell (2)

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		<b>Wing Assembly</b>		G	-
DATE: 10/18/2023				F	-
SIZE C		DRAWING NUMBER CALYPS0-01-02		E	-
SCALE 1:4	WEIGHT (LB) 3.75			D	-
		SHEET 1/1		C	-
				B	-
				A	-

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Isometric view  
Scale: 1:6

Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	0.375" OD 0.06" Wall 17" CF Tube	Clearwater Composites	2
2	Vertical Tail Shell	-	1
3	Rudder Shell	-	1
4	Horizontal Tail Shell	-	1
5	Elevator Shell	-	1
6	Vertical Tail Rib	-	7
7	Rudder Rib	-	7
8	Horizontal Tail Rib	-	6
9	Elevator Rib	-	6

NOTE: All vertical tail and rudder ribs are unique.  
See drawing CALYPSO-01-0308 for details

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DATE:  
10/18/2023

SIZE  
C

SCALE  
1:3

WEIGHT (LBS)  
1.55

DRAWING NUMBER  
CALYPSO-01-03

SHEET  
1 / 1

EMBRY-RIDDLE  
Aeronautical University

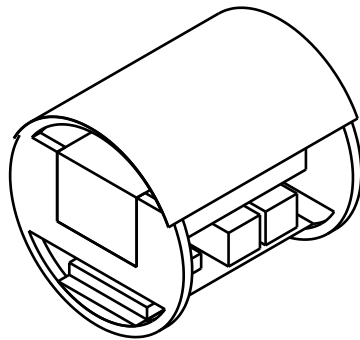
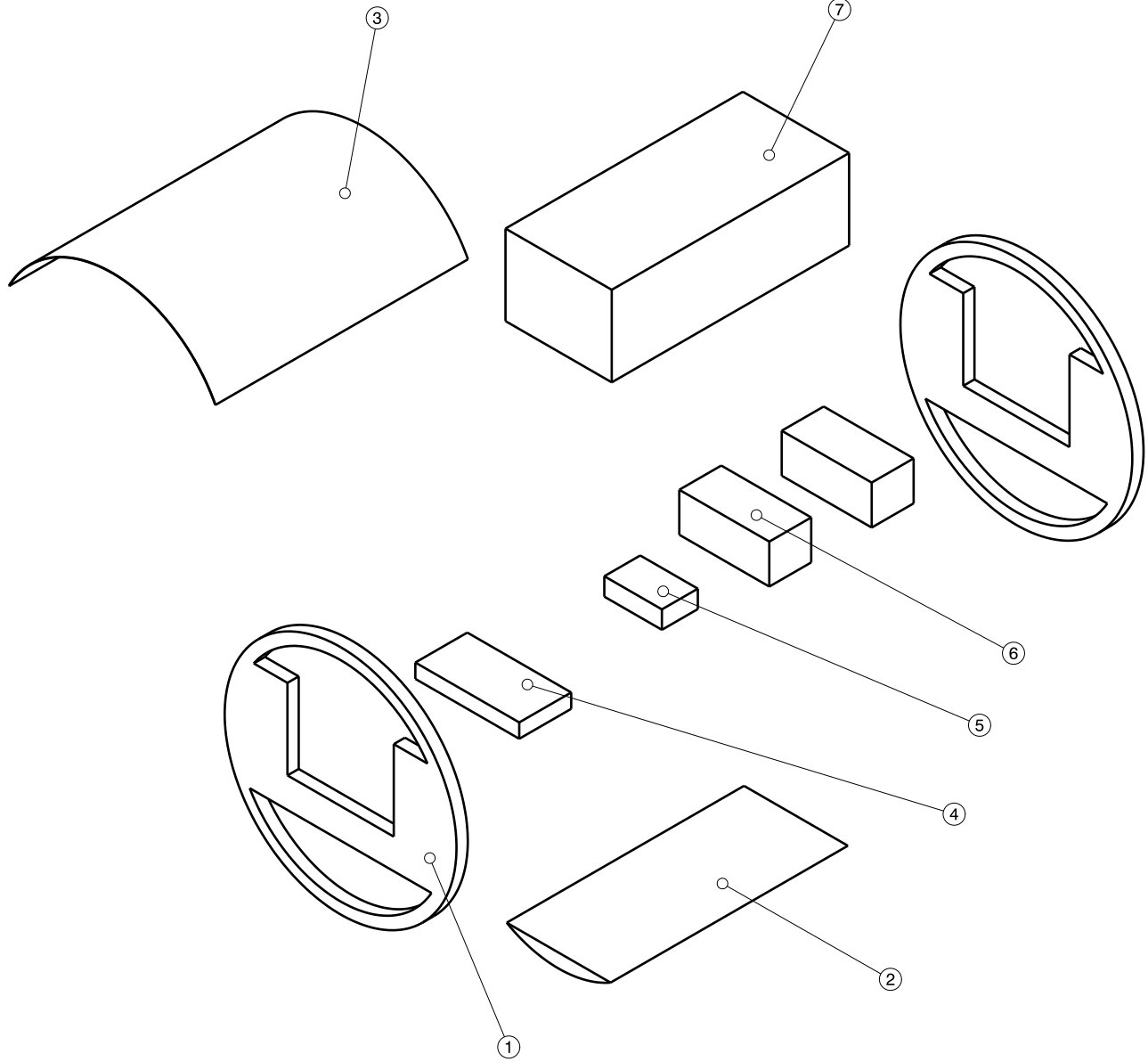
Empennage Assembly

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Isometric view  
Scale: 1:3

Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	Electronics Bay Bulhead	-	2
2	Electronics Bay Floor	-	1
3	Electronics Bay Door	-	1
4	Pixhawk 4	-	1
5	Micro Data Link System	COMMTACT	1
6	Avian 120A ESC	Spektrum	2
7	30,000 mAh 6S Battery	LiperiAir	1

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Project Calypso

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DATE:  
10/18/2023

SIZE  
C

SCALE  
1:2

WEIGHT (LBS)  
7.52

DRAWING NUMBER  
CALYPS0-01-05

EMBRY-RIDDLE  
Aeronautical University

Electronics Bay Assembly

SHEET  
1 / 1

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