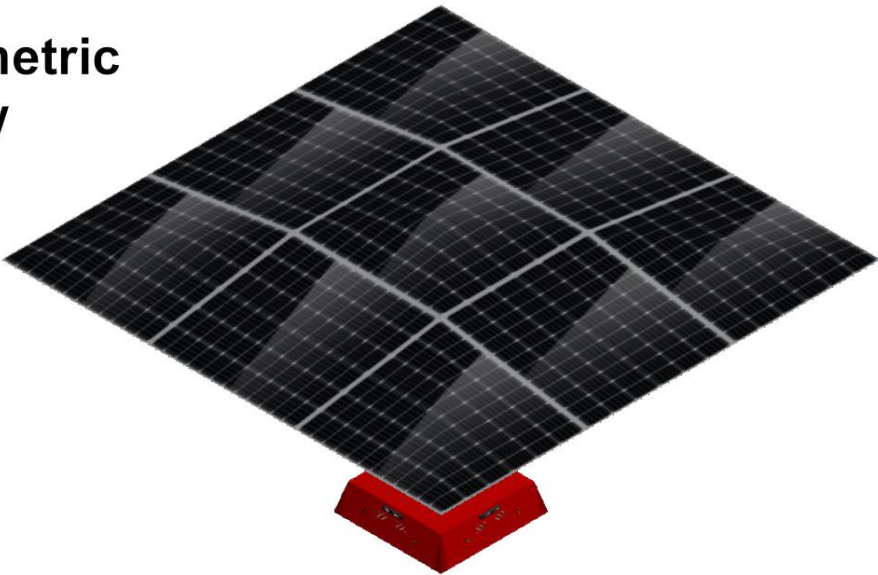


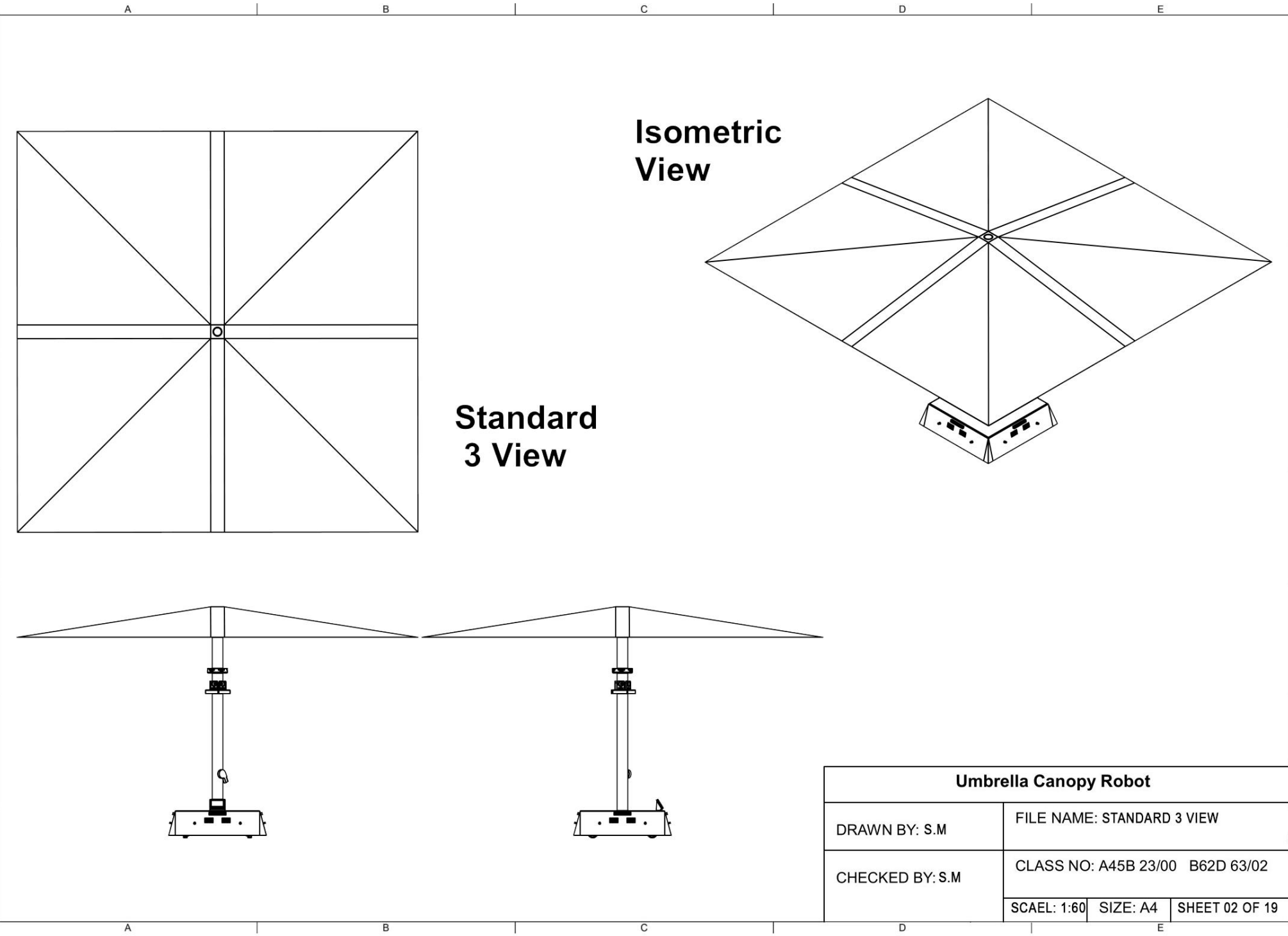
Isometric
View



Standard
3 View



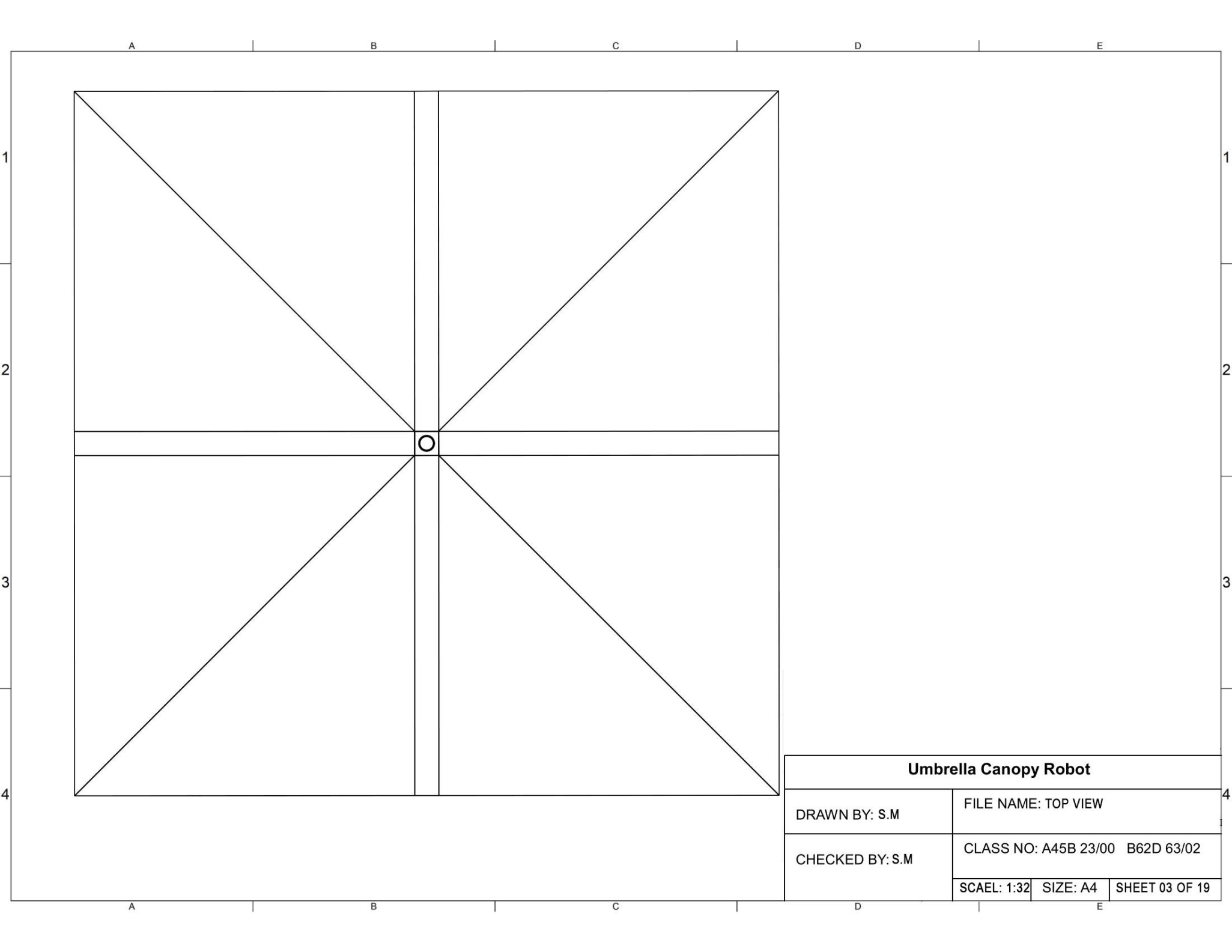
Umbrella Canopy Robot			
DRAWN BY: S.M	FILE NAME: FULL COLOR STANDARD 3 VIEW		
	CLASS NO: A45B 23/00 B62D 63/02		
CHECKED BY: S.M	SCAEL: 1:60	SIZE: A4	SHEET 01 OF 19



**Isometric
View**

**Standard
3 View**

Umbrella Canopy Robot			
DRAWN BY: S.M		FILE NAME: STANDARD 3 VIEW	
CHECKED BY: S.M		CLASS NO: A45B 23/00 B62D 63/02	
		SCAEL: 1:60	SIZE: A4 SHEET 02 OF 19



A

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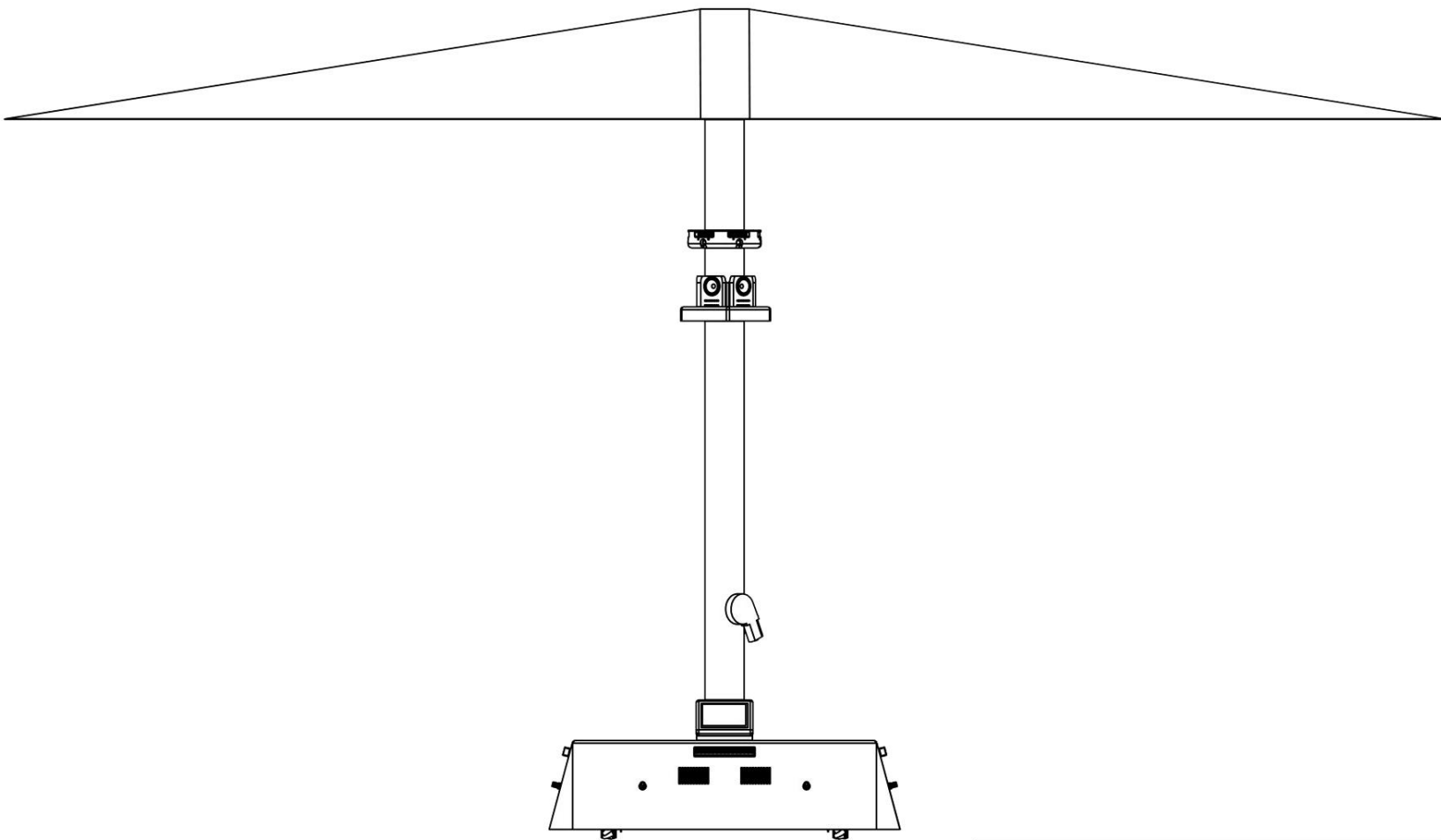
4

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4



Umbrella Canopy Robot

DRAWN BY: S.M

FILE NAME: FRONT VIEW

CHECKED BY: S.M

CLASS NO: A45B 23/00 B62D 63/02

SCAEL: 1:23

SIZE: A4

SHEET 04 OF 19

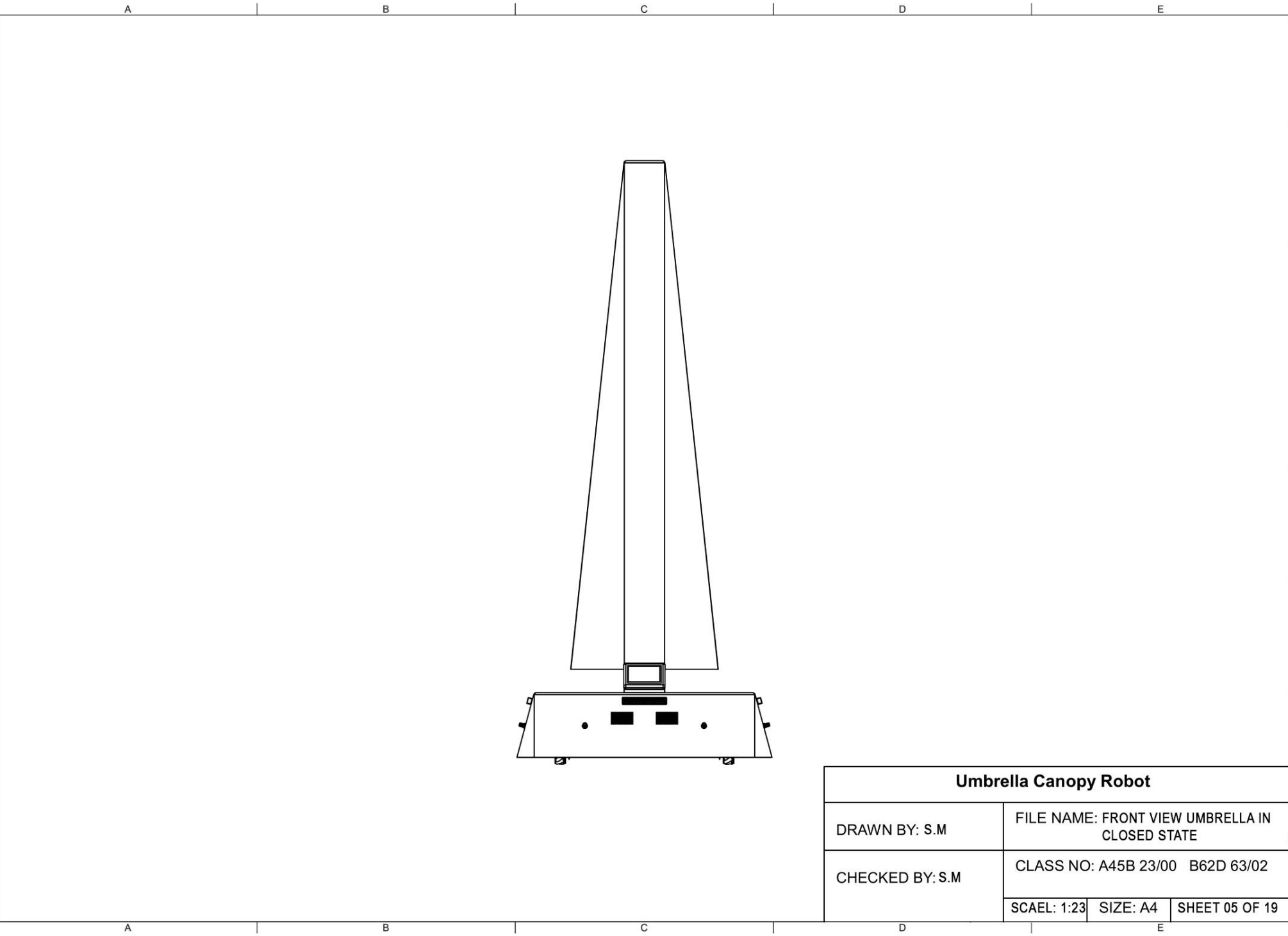
A

B

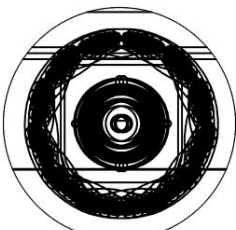
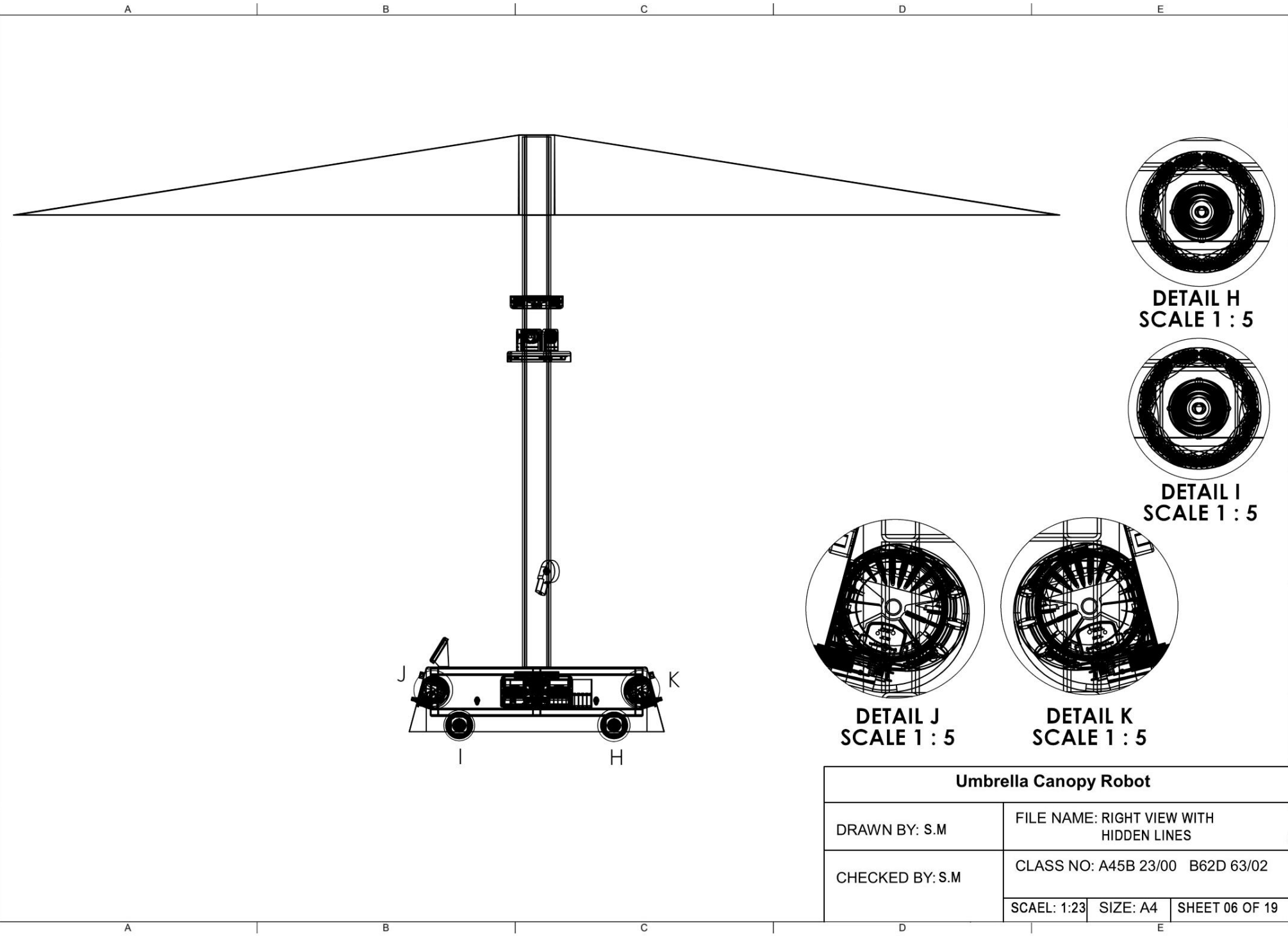
C

D

E



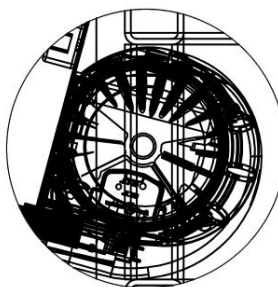
Umbrella Canopy Robot			
DRAWN BY: S.M	FILE NAME: FRONT VIEW UMBRELLA IN CLOSED STATE		
	CLASS NO: A45B 23/00 B62D 63/02		
CHECKED BY: S.M	SCAEL: 1:23	SIZE: A4	SHEET 05 OF 19



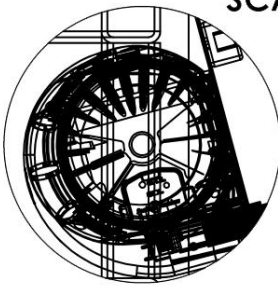
DETAIL H
SCALE 1 : 5



DETAIL I
SCALE 1 : 5

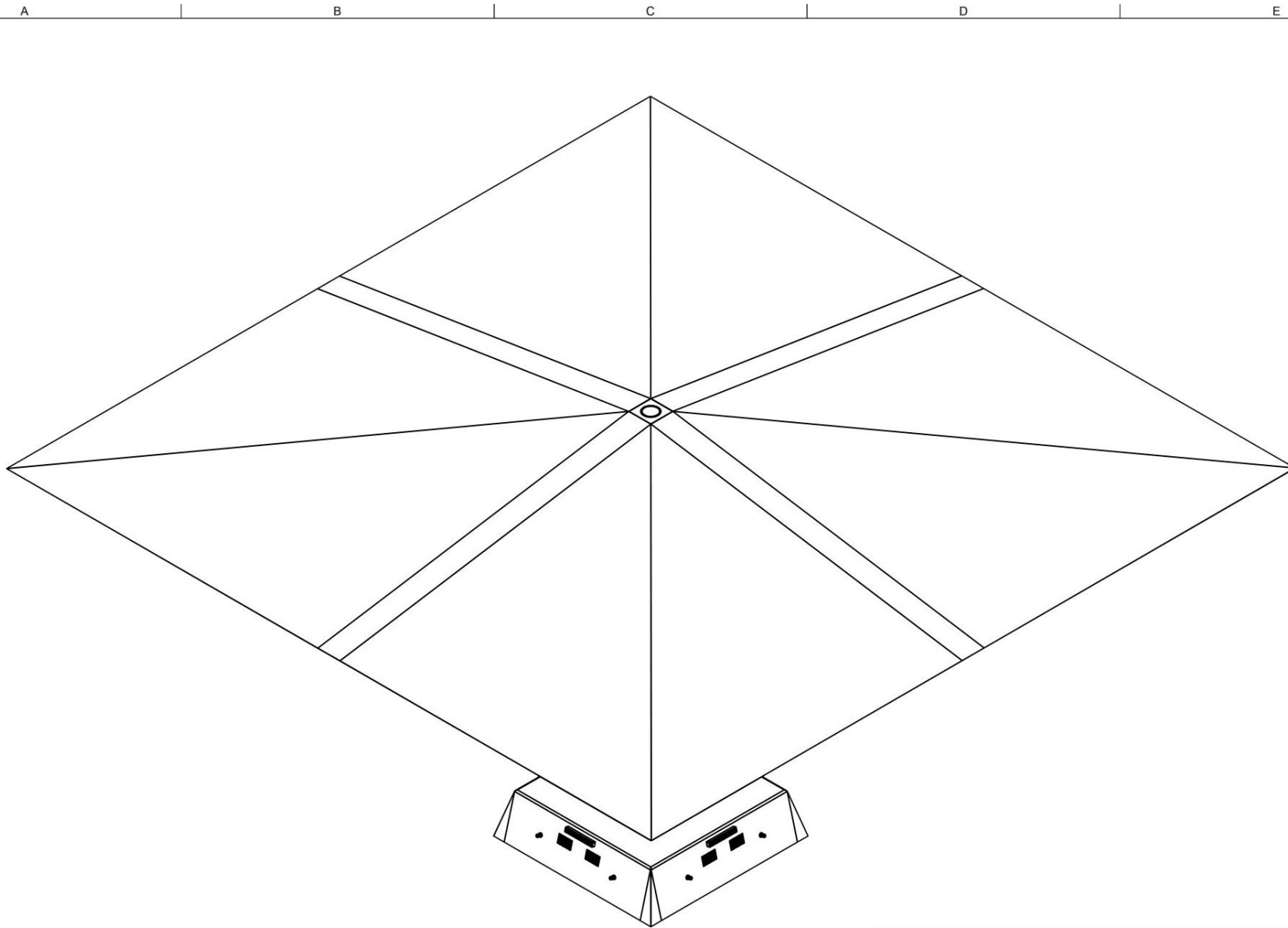


DETAIL J
SCALE 1 : 5

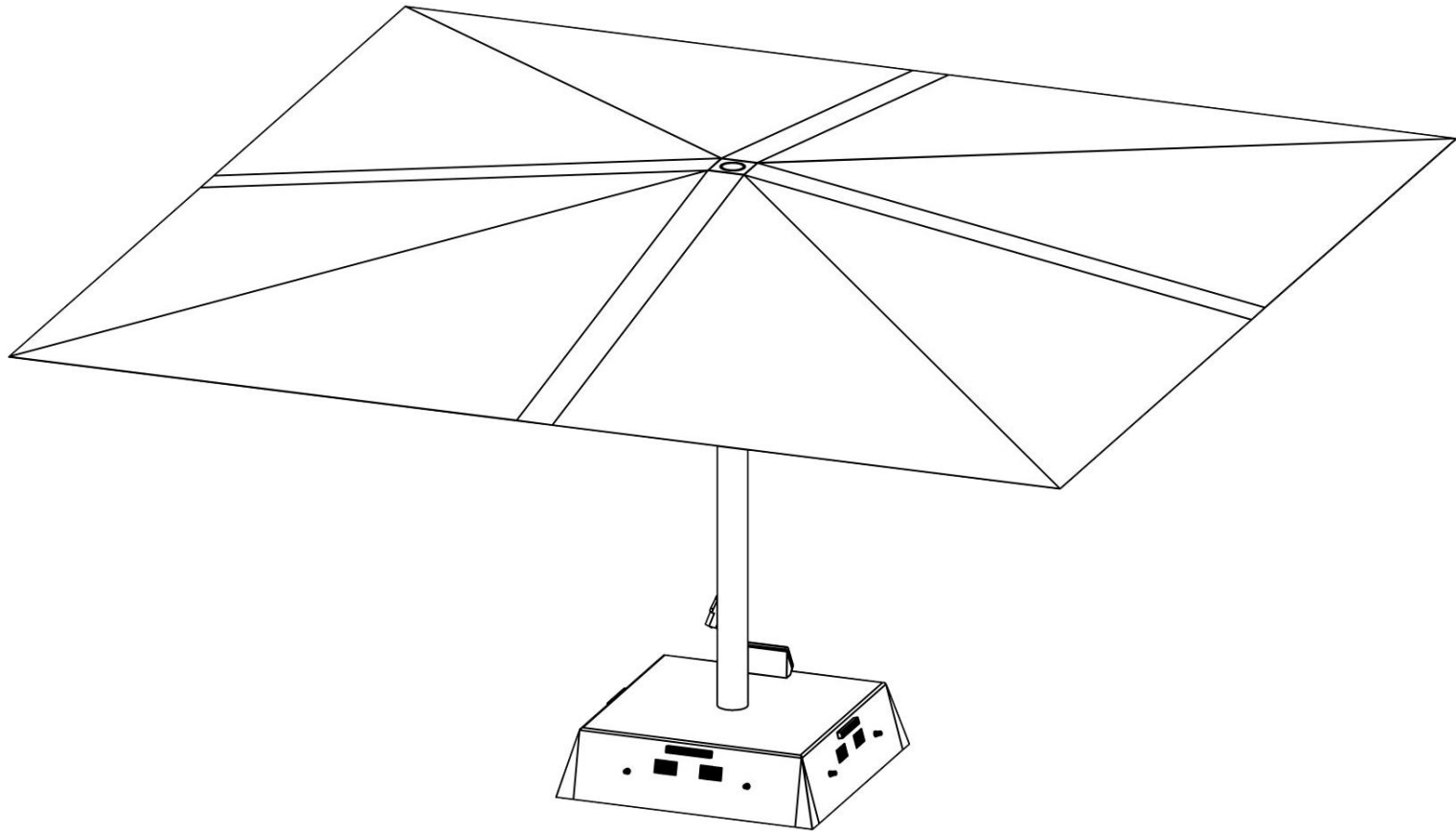


DETAIL K
SCALE 1 : 5

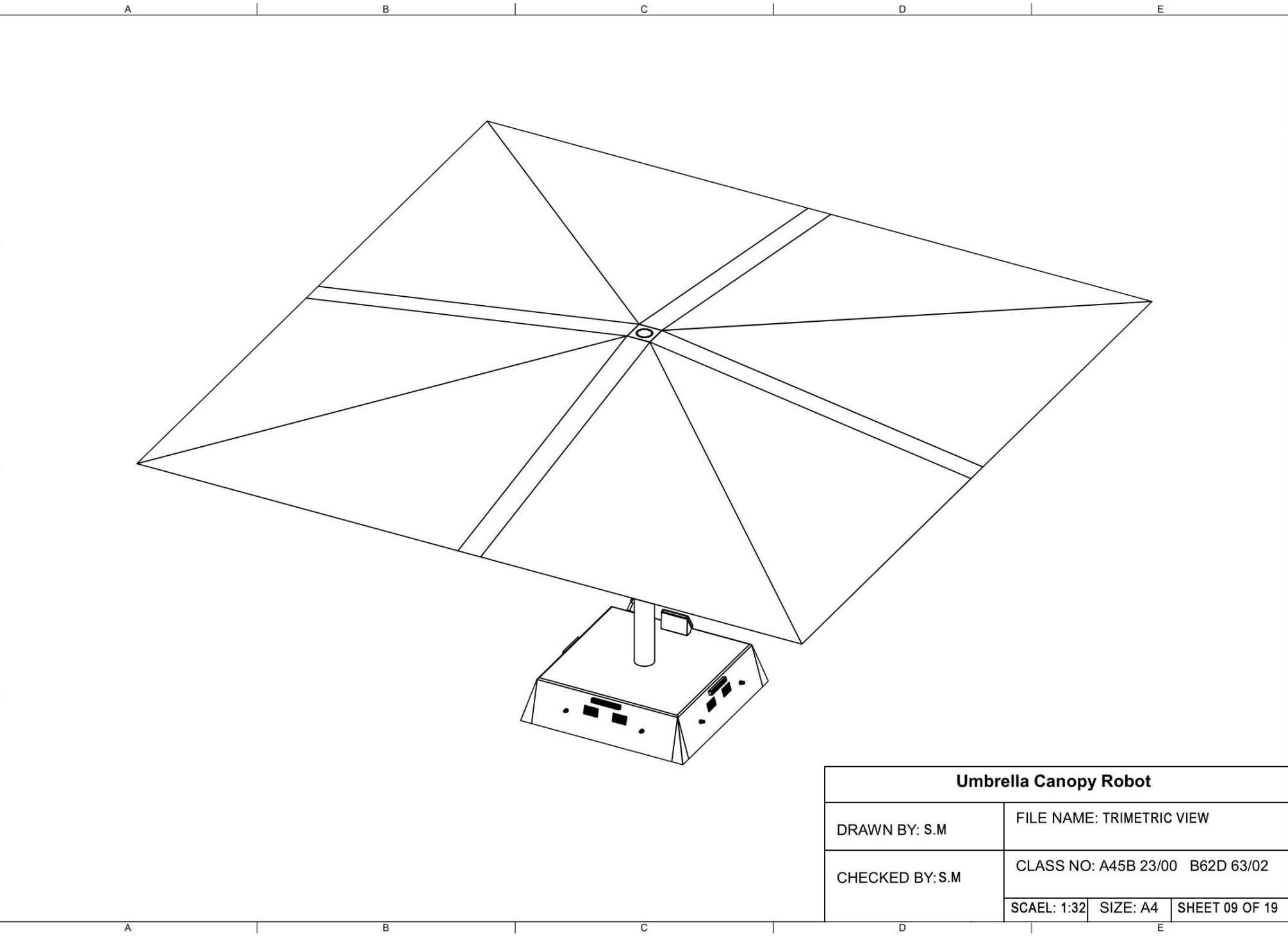
Umbrella Canopy Robot			
DRAWN BY: S.M	FILE NAME: RIGHT VIEW WITH HIDDEN LINES		
	CLASS NO: A45B 23/00 B62D 63/02		
CHECKED BY: S.M	SCAEL: 1:23	SIZE: A4	SHEET 06 OF 19



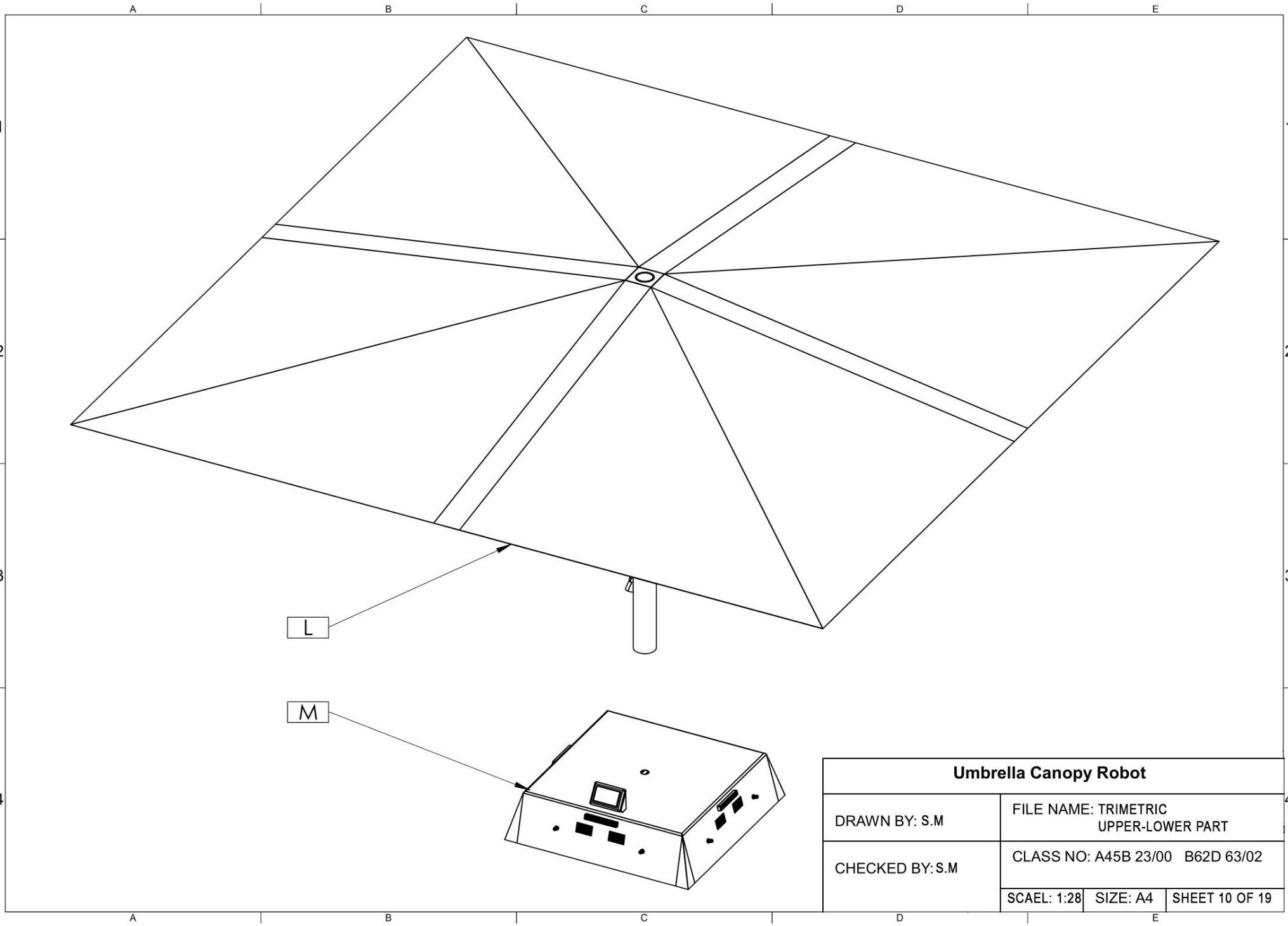
Umbrella Canopy Robot			
DRAWN BY: S.M	FILE NAME: ISOMETRIC VIEW		
	CLASS NO: A45B 23/00 B62D 63/02		
	SCAEL: 1:32	SIZE: A4	SHEET 07 OF 19



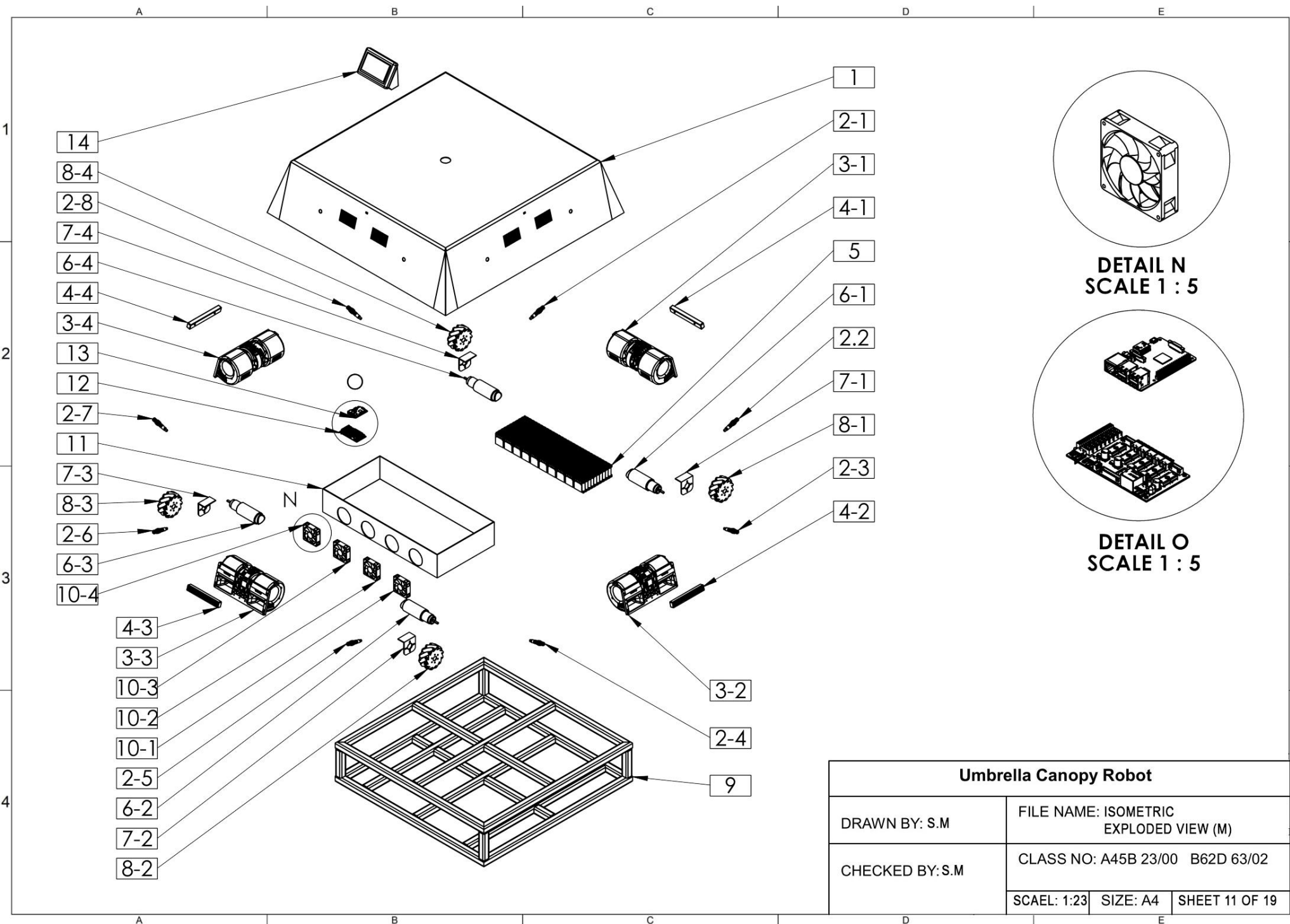
Umbrella Canopy Robot			
DRAWN BY: S.M	FILE NAME: DIMETRIC VIEW		
	CLASS NO: A45B 23/00 B62D 63/02		
	SCAEL: 1:32	SIZE: A4	SHEET 08 OF 19



Umbrella Canopy Robot			
DRAWN BY: S.M		FILE NAME: TRIMETRIC VIEW	
CHECKED BY: S.M		CLASS NO: A45B 23/00 B62D 63/02	
		SCAEL: 1:32	SIZE: A4 SHEET 09 OF 19



Umbrella Canopy Robot		
DRAWN BY: S.M	FILE NAME: TRIMETRIC UPPER-LOWER PART	
CHECKED BY: S.M	CLASS NO: A45B 23/00 B62D 63/02	
SCAEL: 1:28	SIZE: A4	SHEET 10 OF 19



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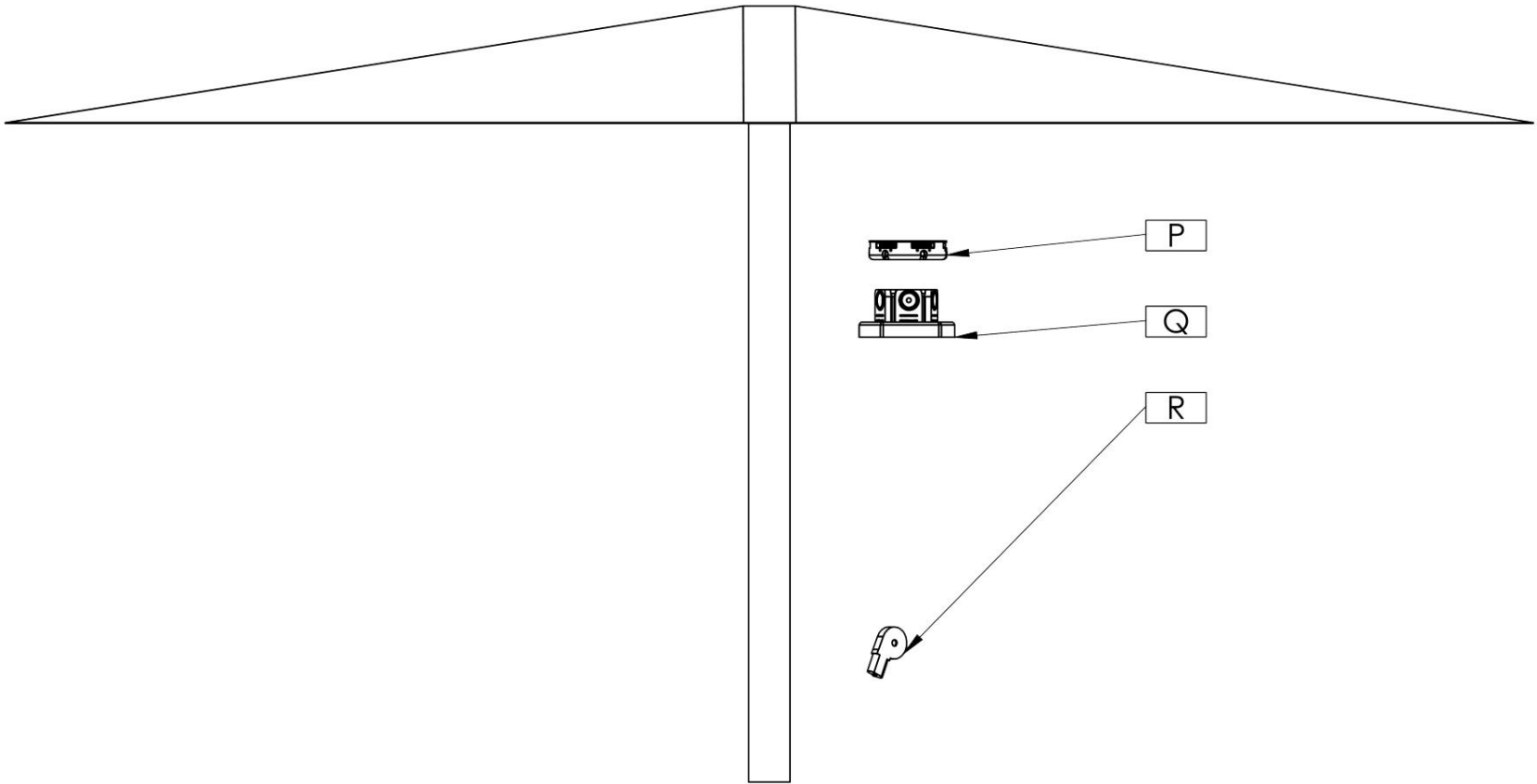
A

B

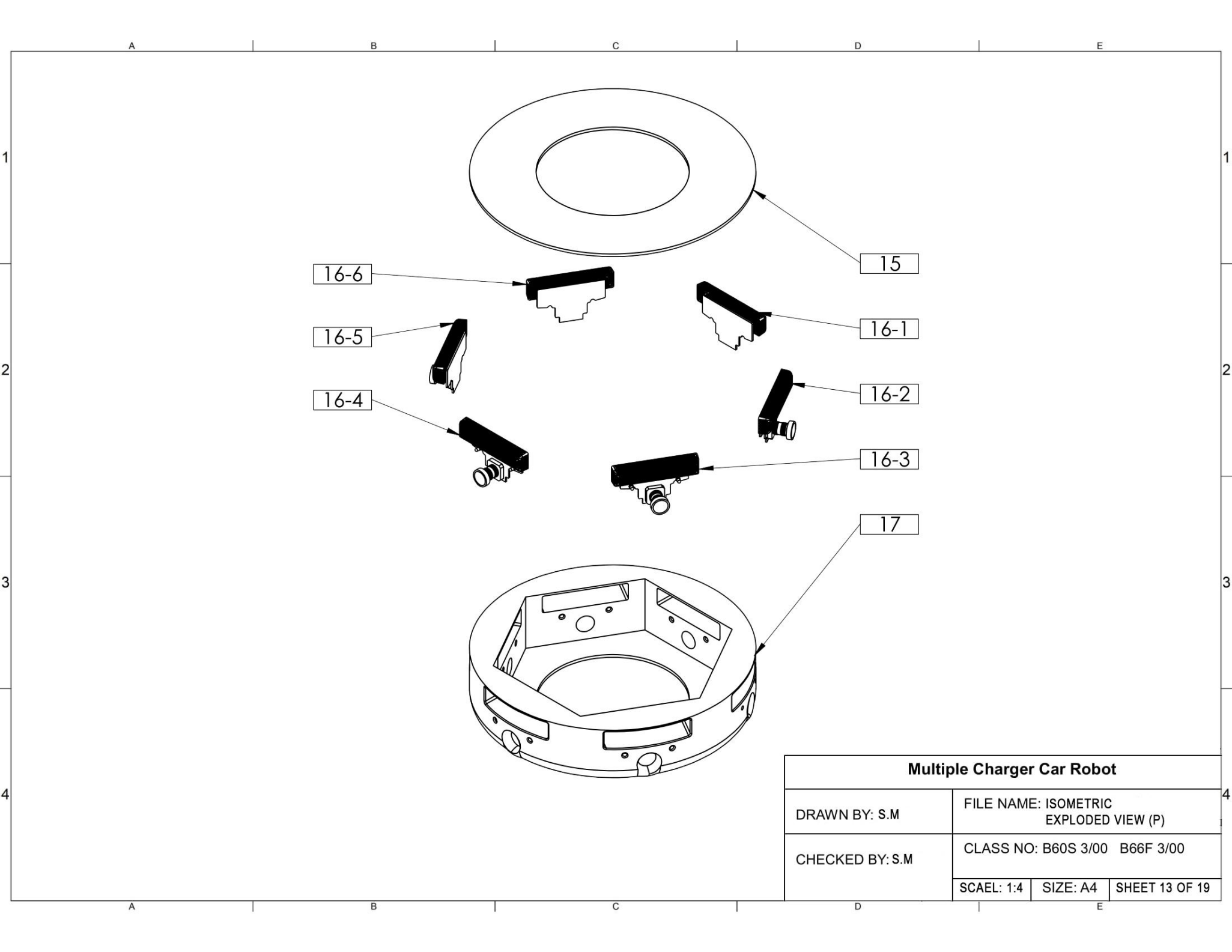
C

D

E



Multiple Charger Car Robot			
DRAWN BY: S.M	FILE NAME: ISOMETRIC EXPLODED VIEW (L)		
	CLASS NO: B60S 3/00 B66F 3/00		
CHECKED BY: S.M	SCAEL: 1:23	SIZE: A4	SHEET 12 OF 19



Multiple Charger Car Robot			
DRAWN BY: S.M	FILE NAME: ISOMETRIC EXPLODED VIEW (P)		
	CLASS NO: B60S 3/00 B66F 3/00		
CHECKED BY: S.M	SCAEL: 1:4	SIZE: A4	SHEET 13 OF 19

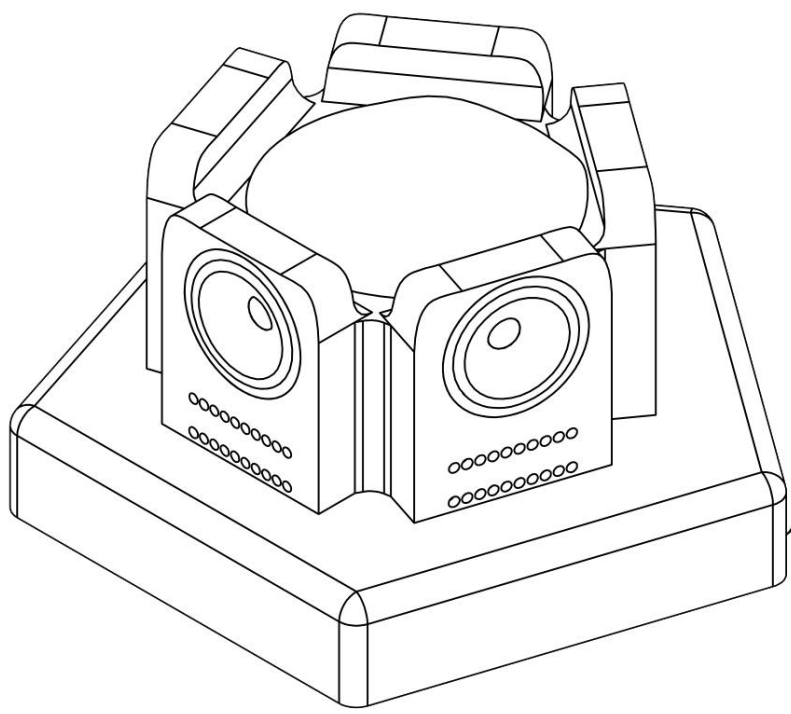
A B C D E

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18

19-1

19-5

19-2

19-4

19-3

Multiple Charger Car Robot

DRAWN BY: S.M

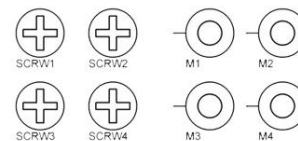
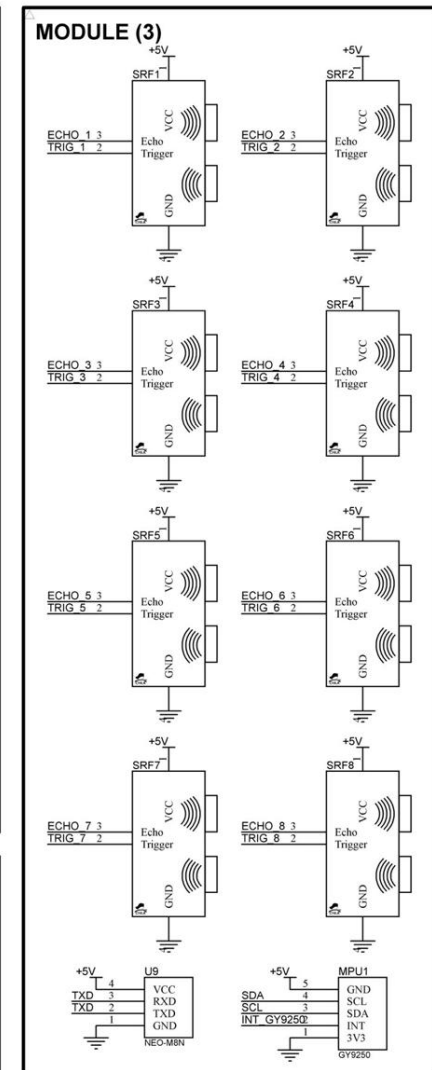
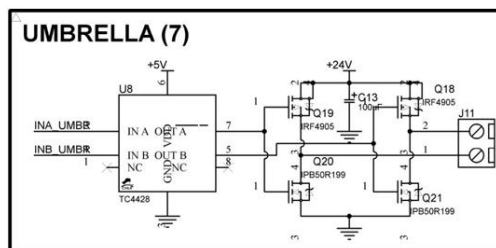
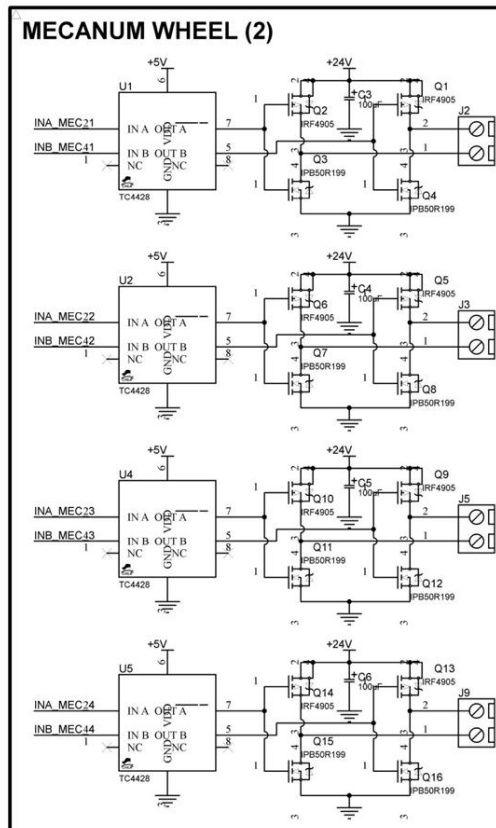
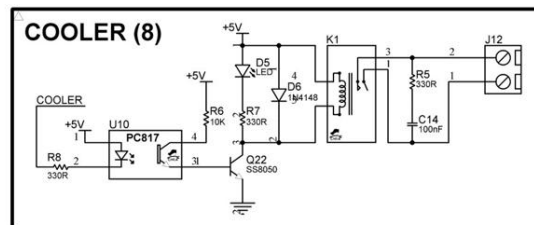
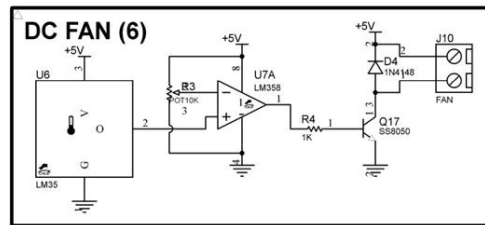
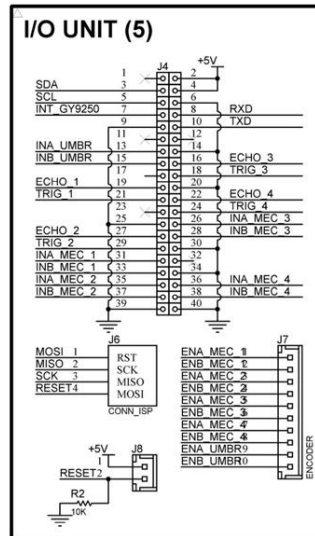
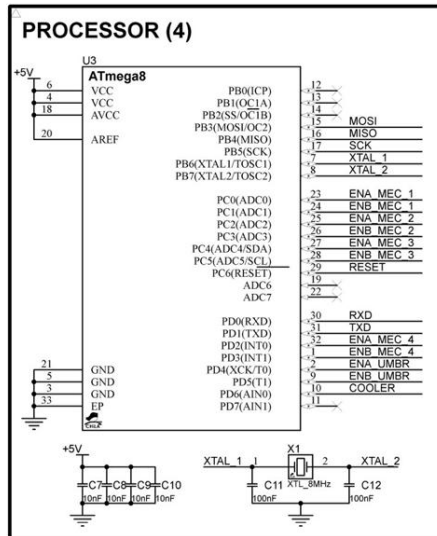
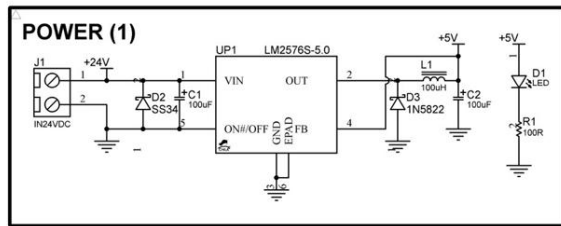
FILE NAME: ISOMETRIC
EXPLODED VIEW (Q)

CHECKED BY: S.M

CLASS NO: B60S 3/00 B66F 3/00

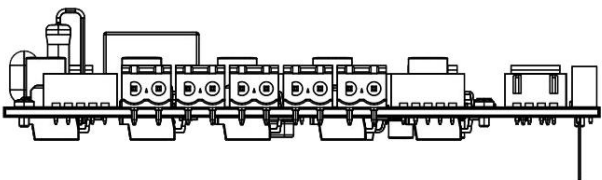
SCAEL: 1:3	SIZE: A4	SHEET 14 OF 19
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A B C D E

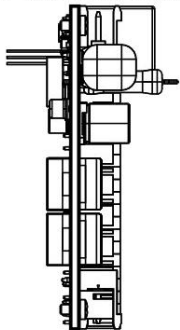


Umbrella Canopy Robot			
DRAWN BY: A.SH.M		FILE NAME: TOTAL SCHEMATIC	
CHECKED BY: A.SH.M		CLASS NO: A45B 23/00 B62D 63/02	
		SCAEL: 1:1	SIZE: A4 SHEET 15 OF 19

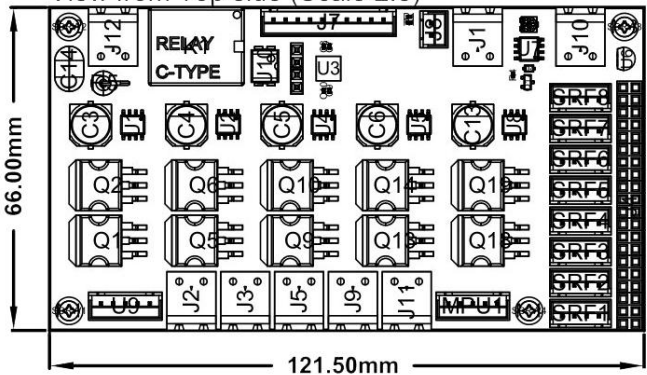
View from Front side (Scale 2:3)



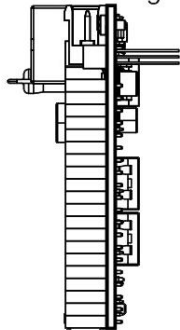
View from Left side (Scale 2:3)



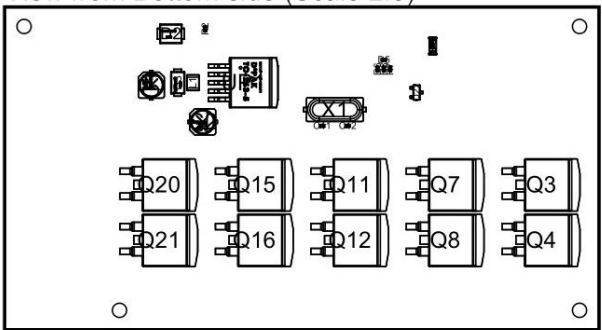
View from Top side (Scale 2:3)



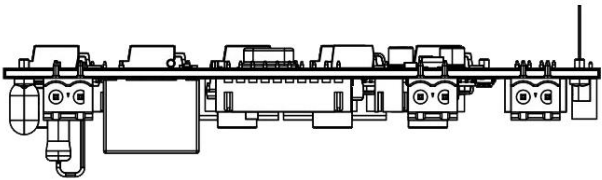
View from Right side (Scale 2:3)



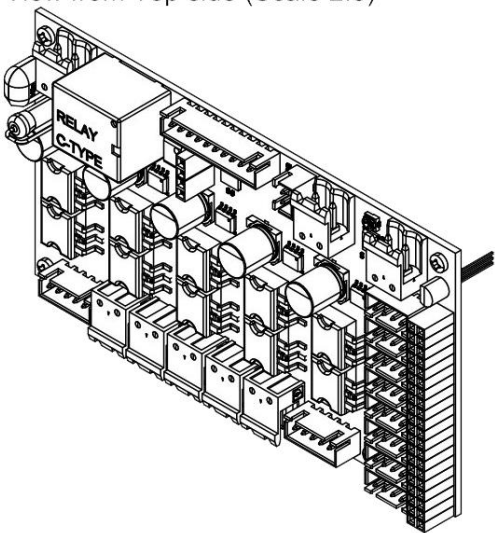
View from Bottom side (Scale 2:3)



View from Back side (Scale 2:3)



View from Top side (Scale 2:3)



Umbrella Canopy Robot

DRAWN BY: A.SH.M

FILE NAME: PCB VIEWS

CHECKED BY: A.SH.M

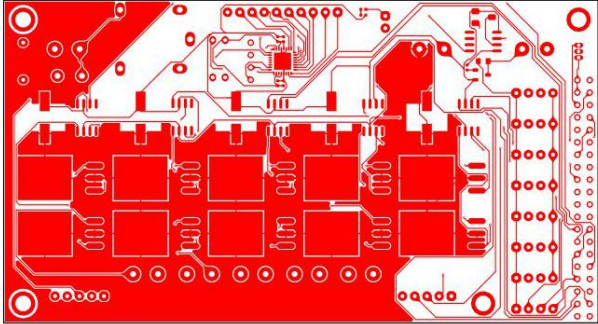
CLASS NO: A45B 23/00 B62D 63/02

SCAEL: 1:1

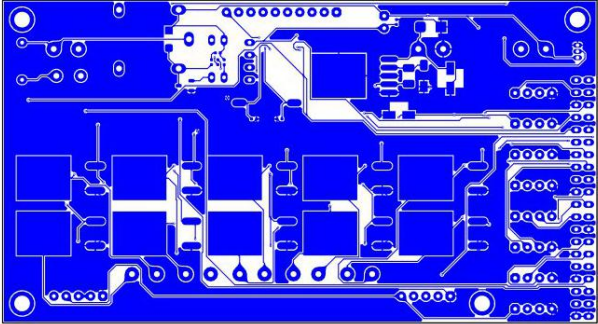
SIZE: A4

SHEET 10 OF 12

Top Layer (Scale 2:3)



Bottom Layer (Scale 2:3)



Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
		1.60mm	FR-4	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.69mm

Umbrella Canopy Robot			
DRAWN BY: A.SH.M	FILE NAME: PCB LAYERS		
	CLASS NO: A45B 23/00 B62D 63/02		
CHECKED BY: A.SH.M	SCAEL: 1:1	SIZE: A4	SHEET 17 OF 19

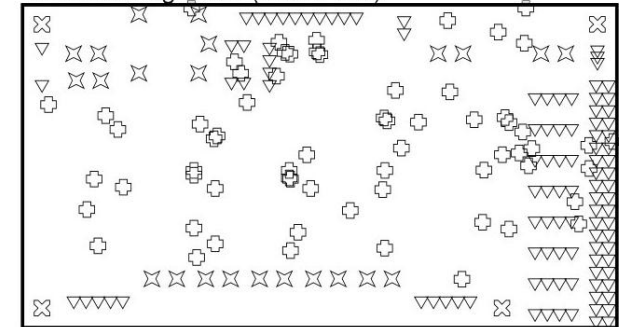
Bill Of Materials

Line #	Designator	Comment	Quantity
1	C1, C2	100uF	2
2	C3, C4, C5, C6, C13	100uF	5
3	C7, C8, C9, C10	10nF	4
4	C11, C12	100nF	2
5	C14	100nF	1
6	D1, D5	LED	2
7	D2	SS34	1
8	D3	1N5822	1
9	D4	1N4148	1
10	D6	1N4148	1
11	J1	IN24VDC	1
12	J2, J3, J5, J9, J11, J12	CONN_TB2	6
13	J4	HDRF_2X20	1
14	J6	CONN_ISP	1
15	J7	ENCODER	1
16	J8	HHDR_2	1
17	J10	FAN	1
18	K1	RELAY_SPDT	1
19	L1	100uH	1
20	MPU1	GY9250	1
21	Q1, Q2, Q5, Q6, Q9, Q10, Q13, Q14, Q18, Q19	IRF4905	10
22	Q3, Q4, Q7, Q8, Q11, Q12, Q15, Q16, Q20, Q21	IPB50R199	10
23	Q17, Q22	SS8050	2
24	R1	100R	1
25	R2, R6	10K	2
26	R3	POT10K	1
27	R4	1K	1
28	R5	330R	1
29	R7, R8	330R	2
30	SCRW1, SCRW2, SCRW3, SCRW4	SCREW	4
31	SRF1, SRF2, SRF3, SRF4, SRF5, SRF6, SRF7, SRF8	SRF04	8
32	U1, U2, U4, U5, U8	TC4428	5
33	U3	ATMEGA8	1
34	U6	LM35	1
35	U7	LM358	1
36	U9	NEO-M8N	1
37	U10	PC817	1
38	UP1	LM2576S-5.0	1
39	X1	XTL_8MHz	1

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
⊕	65	0.30mm	Plated	
▽	107	0.80mm	Plated	
✕	23	1.20mm	Plated	
⊗	4	3.20mm	Plated	
	199 Total			

Drill Drawing View (Scale 2:3)



Umbrella Canopy Robot

DRAWN BY: A.SH.M

FILE NAME:
BILL OF MATERIALS AND DRILL TABLE

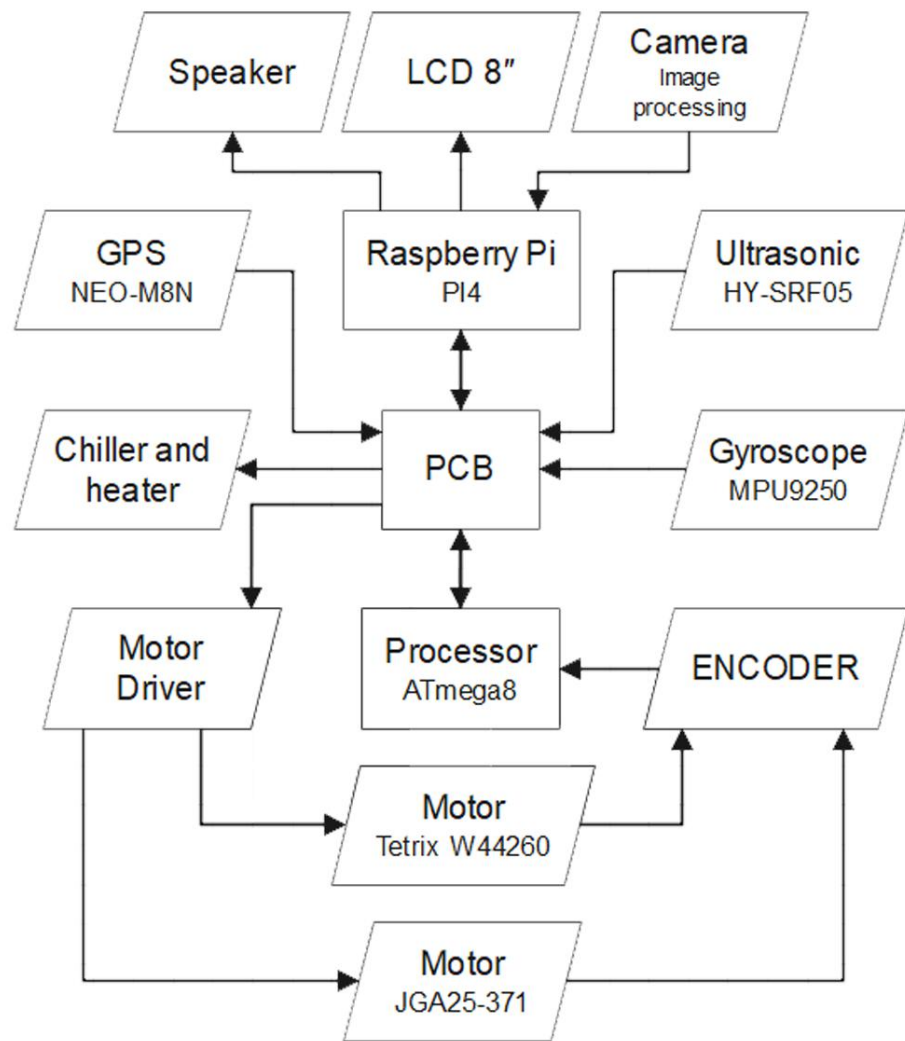
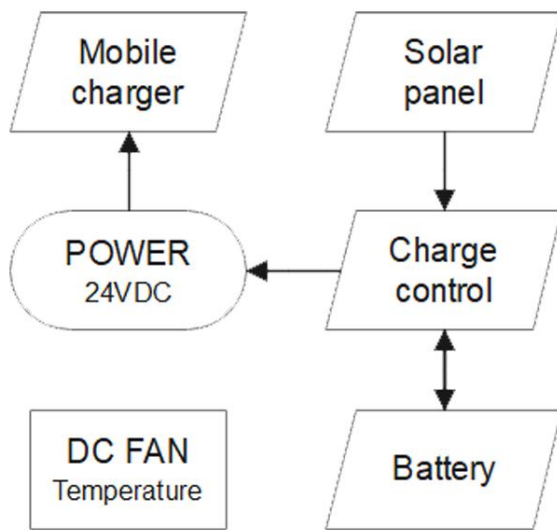
CHECKED BY: A.SH.M

CLASS NO: A45B 23/00 B62D 63/02

SCAEL: 1:1

SIZE: A4

SHEET 18 OF 19



Umbrella Canopy Robot			
DRAWN BY: A.SH.M		FILE NAME: FLOWCHART	
CHECKED BY: A.SH.M		CLASS NO: A45B 23/00 B62D 63/02	
		SCAEL: 1:3	SIZE: A4 SHEET 19 OF 19