

A	ITEM NO.	PartNo	DESCRIPTION	QTY.
	1	EC-000	ELECTRONICS ARRANGEMENT	1
	2	FS-000	FRONT SUBASSEMBLY	1
	3	GM-000	GIMBAL SUBASSEMBLY	1
B	4	PB-002	100M ROCK CRAWLER WHEEL	2
	5	PB-003	12V DC MOTOR 350RPM	2
	6	PB-004	25MM HINGE PIN	4
	7	PB-005	FRONT BAR	2
C	8	PB-007	HEIGHT SPACER	1
	9	PB-008	MAST HINGE BLOCK	1
	10	PB-010	MAST	1
	11	PB-012	MOTOR MOUNT BASE	2
D	12	PB-017	REAR BAR	1
	13	PB-018	SIDE BAR PORT	1
	14	PB-019	SLOT CLAMP	1
	15	PB-020	SPINE BAR	1
E	16	PB-021	SUSPENSION BUSH BEARING	4
	17	PB-022	SUSPENSION TOP FITTING	2
	18	PB-024	SUSPENSION RETRACTOR PIN	2
	19	PB-025	SUSPENSION SPRING	2
F	20	PB-026	SUSPENSION SPACER	2
	21	PB-027	SUSPENSION BUSH BEARING THICK	2
	24	PB-028	SUSPENSION SPRING END PIN	2
	23	PB-029	SUSPENSION SPRING RETRACTOR	2
G	24	PB-030	SUSPENSION SPRING RETRACTOR INNER PIECE	2
	25	PB-032	SUSPENSION SWINGARM	2
	26	PB-033	SUSPENSION SWINGARM TOP PIN	2
	27	PB-034	WHEEL SHAFT CAP	2
H	28	PB-035	WHEEL SHAFT	2
	29	PB-038	M3 SOCKET HEAD CTSK SET SCREW 16MM	2
	30	PB-039	M3 GRUB SOCKET SET SCREW 5MM	2
	31	PB-040	M3 HEX HEAD NUT	11
I	32	PB-041	M3 HEX HEAD BOLT 30MM	1
	33	PB-042	M5 CTSK SET SCREW 20MM	2
	34	PB-044	M5 HEX HEAD BOLT 40MM	4
	35	PB-045	M5 HEX HEAD BOLT 60MM	6
J	36	PB-046	M5 HEX HEAD NUT	10
	37	PB-047	M5 WASHER	19
	38	PB-048	M6 HEX HEAD NUT	12
	39	PB-049	M6 WASHER	10
K	40	PB-050	M3 HEX HEAD BOLT 16MM	10
	41	PB-051	M3 WASHER	10
	42	PB-052	MOTOR MOUNT TOP	2
	43	PB-068	SIDE BAR STARBOARD	1

Group 28
PhotoBot
MILO

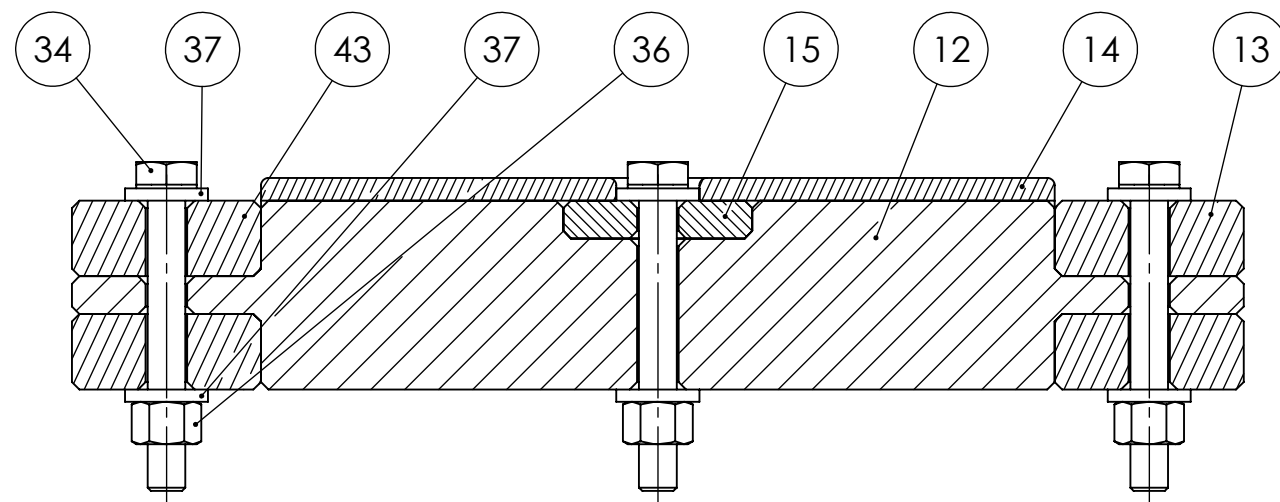
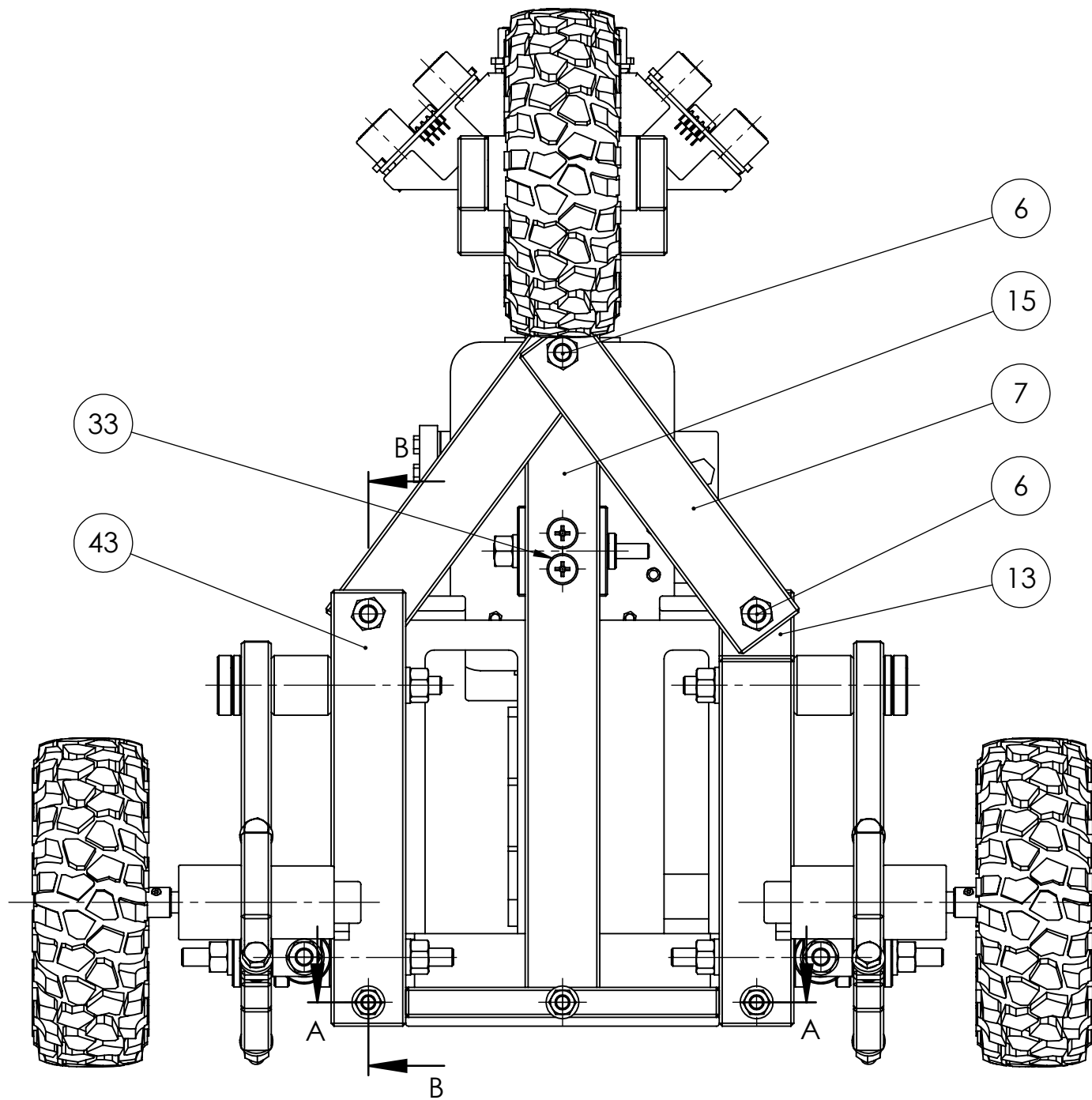
ISOMETRIC VIEW
SCALE 1:5

TOLERANCES		THIRD ANGLE PROJECTION		MATERIAL:		TITLE:	
X	± 0.5	ANGULAR	± 1°			PHOTOBOT	
X.X	± 0.1	SURFACE FINISH					
X.XX	± 0.02	MACHINED FACES Ra 6.3					
		NAME		DATE		ALL DIMENSIONS ARE IN MILLIMETRES	
DRAWN		CALISTA LIM		13.01.19		DO NOT SCALE DRAWING	
CHECKED		ISABELLE SUA		14.01.19		DWG No. PB-000	
APPROVED						A3 SCALE 1:3	

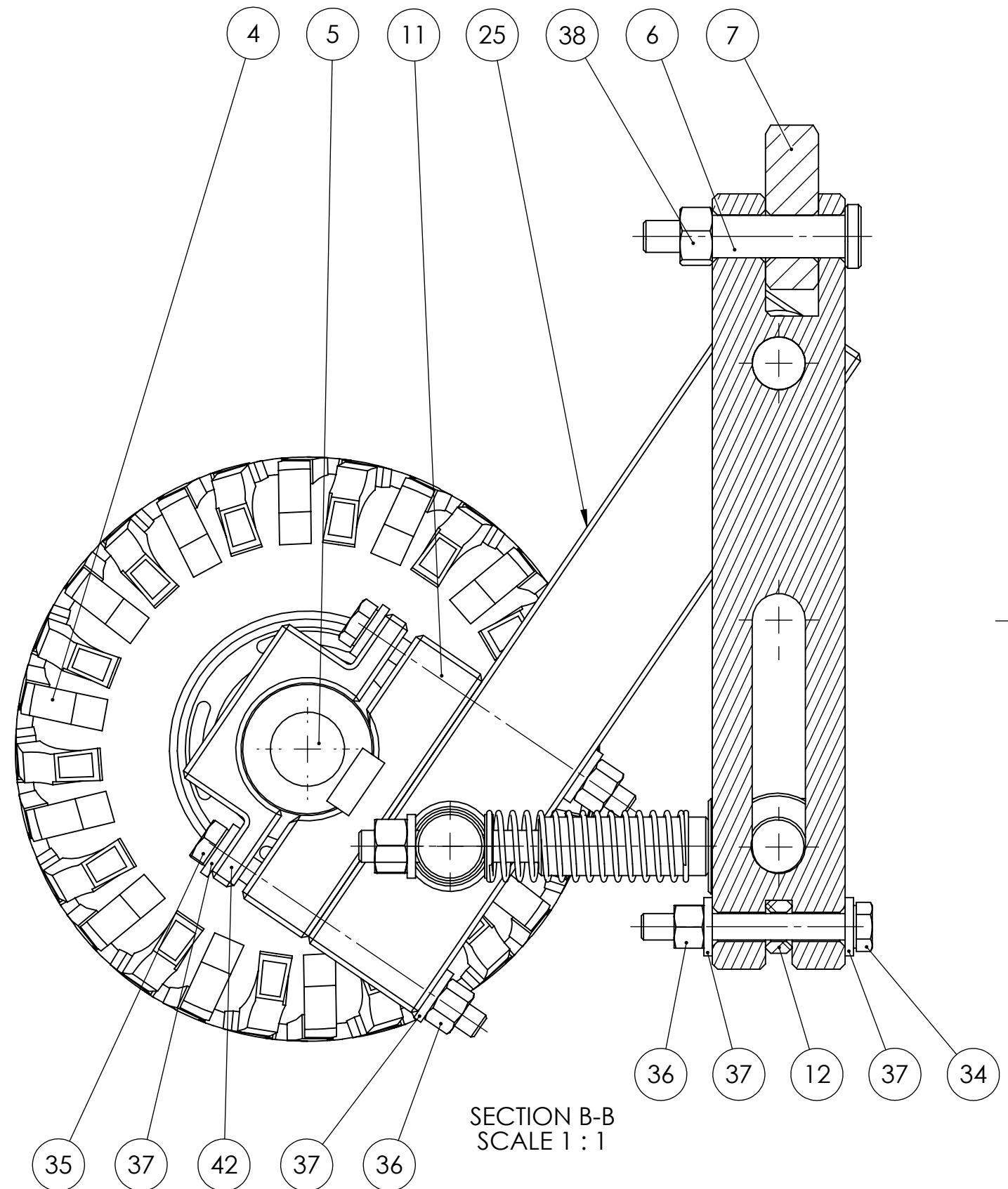
Imperial College
London
Department of
Mechanical Engineering

SHEET 1 OF 4

REVISION 1

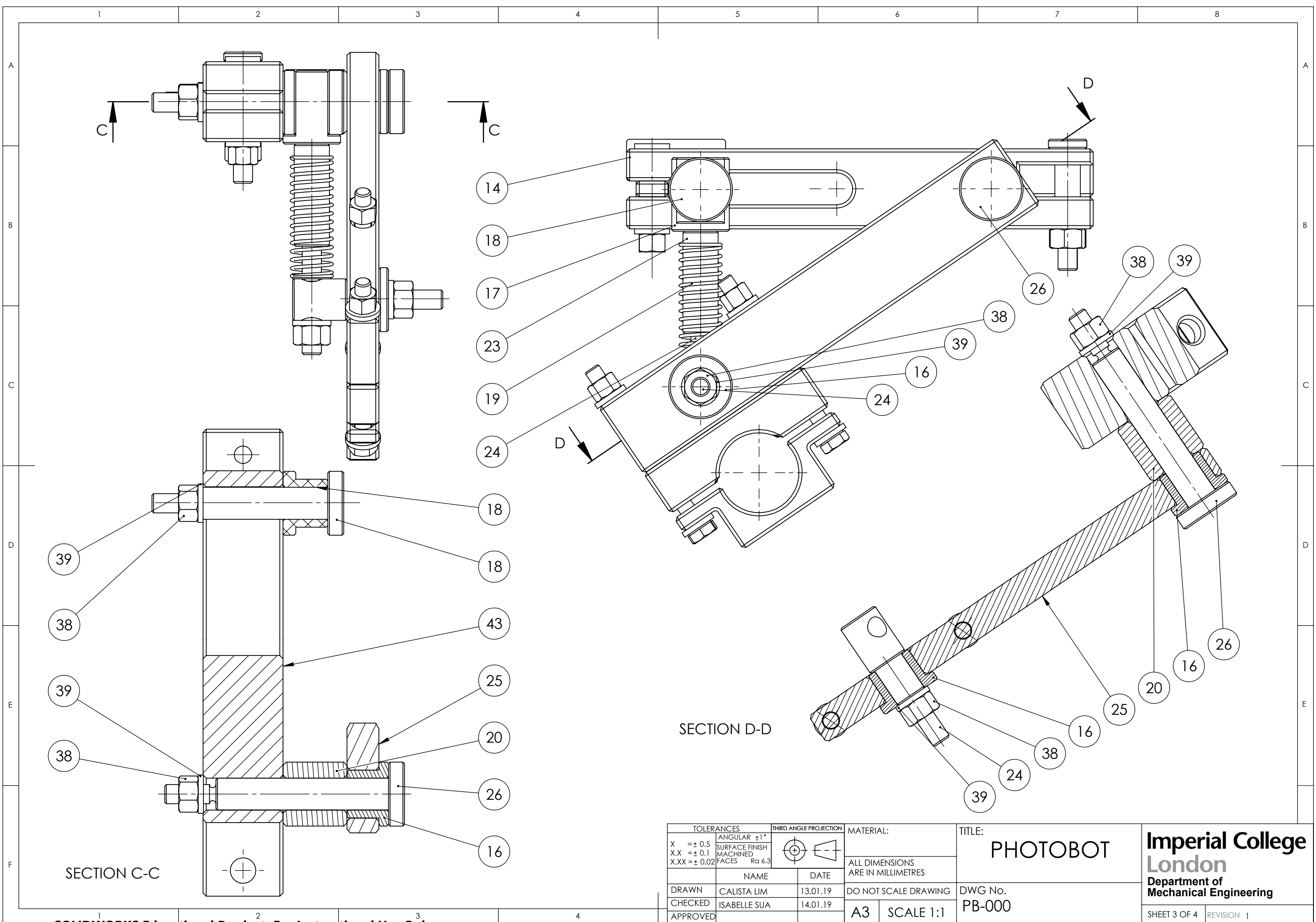



SECTION A-A
SCALE 1 : 1



SECTION B-B
SCALE 1 : 1

TOLERANCES		THIRD ANGLE PROJECTION		MATERIAL:		TITLE: PHOTOBOT		<div>Imperial College London Department of Mechanical Engineering</div>	
X = ± 0.5 X.X = ± 0.1 X.XX = ± 0.02	ANGULAR ± 1° SURFACE FINISH MACHINED FACES Ra 6.3								
				ALL DIMENSIONS ARE IN MILLIMETRES					
NAME		DATE		DO NOT SCALE DRAWING		DWG No. PB-000			
DRAWN	CALISTA LIM	13.01.19		A3		SCALE 1:2			
CHECKED	ISABELLE SUA	14.01.19						SHEET 2 OF 4	
APPROVED								REVISION 1	



TOLERANCES		THIRD ANGLE PROJECTION		MATERIAL:		TITLE: PHOTOBOT		Imperial College London Department of Mechanical Engineering	
X =± 0.5 X.X =± 0.1 X.XX =± 0.02	ANGULAR ±1° SURFACE FINISH MACHINED FACES Ra 6.3								
				ALL DIMENSIONS ARE IN MILLIMETRES					
NAME		DATE		DO NOT SCALE DRAWING					
DRAWN	CALISTA LIM	13.01.19		DWG No. PB-000					
CHECKED	ISABELLE SUA	14.01.19		A3 SCALE 1:1		SHEET 3 OF 4		REVISION 1	
APPROVED									