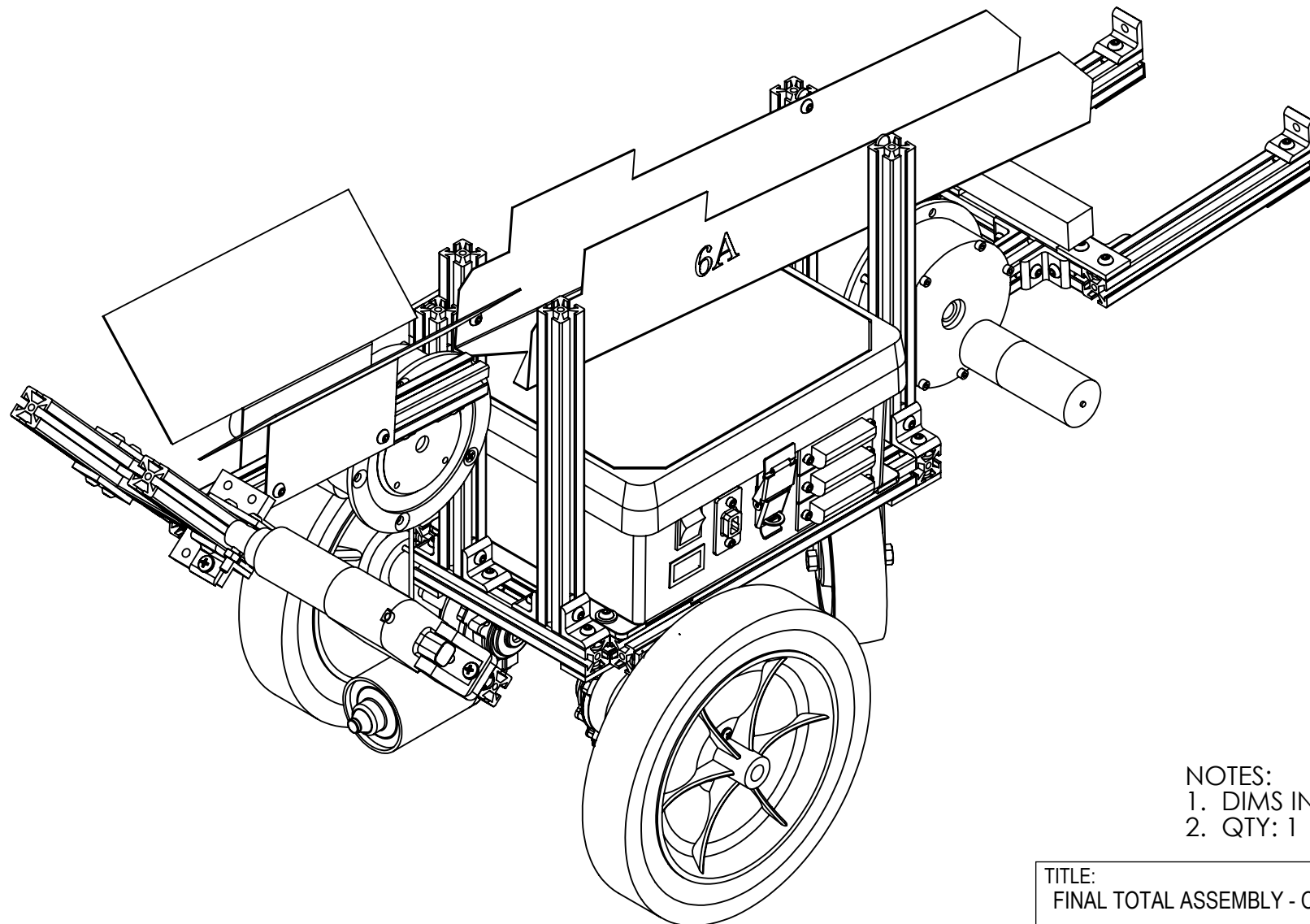


1. 0001 – 80/20 EXTRUSION
2. TITANIUM COUNTERWEIGHT
3. RUBBER PADS
4. A9 – BALL MANIPULATOR TOTAL ASSEMBLY
  - a. 0034 – BALL MANIPULATOR CHANNEL
  - b. A6 – CLAW ASSEMBLY
    - i. 0004 – 80/20 90 DEG ANGLE BRACKET
    - ii. 0007 – 80/20 STRAIGHT BRACKET
    - iii. 0037 – 80/20 LINEAR SLIDE
    - iv. 0039 – 10-24 LINEAR ACTUATOR MOUNT
    - v. 0040 – 30 IPM SPAL LINEAR ACTUATOR (2in)
  - c. A7 – CLAW MOUNT
  - d. A8 – GLOBE MOTOR BRACKET ASSEMBLY
  - e. A12 – 4.5 RPM GLOBE MOTOR
5. A16 – PLATFORM WITH BOX/HOPPER/BUCKET
  - a. A14 – HOPPER/BUCKET ASSEMBLY
    - i. A5 – BUCKET MANIPULATOR TOTAL ASSEMBLY
      1. A4 – BUCKET MANIPULATOR
        - a. A10 – 90-DEGREE BRACKET ASSEMBLY
        - b. A11 – STRAIGHT BRACKET ASSEMBLY
      - ii. A13 – HOPPER ASSEMBLY
        1. 0018 – BALL HOPPER
    - ii. A15 – PLATFORM WITH CONTROL BOX
      - i. 0017 – CONTROL BOX
      - ii. A3 – PLATFORM WITH WHEELS
        1. 0016 – 5 in CASTER WHEEL
        2. A1 – MOBILE PLATFORM FRAME
        3. A2 – WHEEL AND MOTOR ASSEMBLY
          - a. 0008 – 44 RPM ENTSTORT RIGHT ANGLE MOTOR
          - b. 0009 – ENTSTORT MOTOR MOUNT
          - c. 0011 – DRIVE WHEEL HUB
          - d. 0012 – 10 in WHEEL



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 FINAL TOTAL ASSEMBLY - OUTSTRETCHED

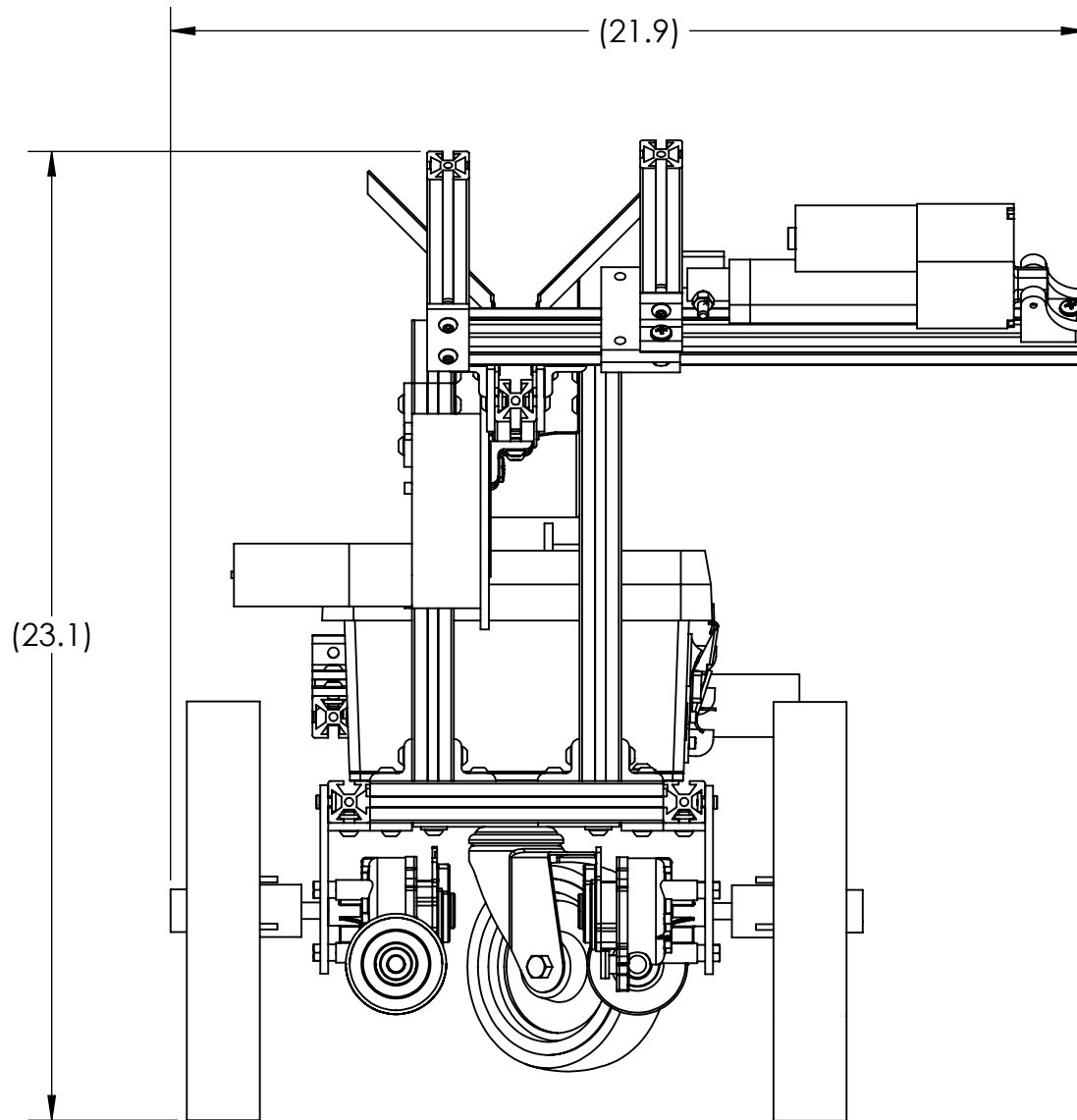
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-000	E

SCALE: 2:9	SHEET 1 OF 10
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- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 FINAL TOTAL ASSEMBLY - OUTSTRETCHED

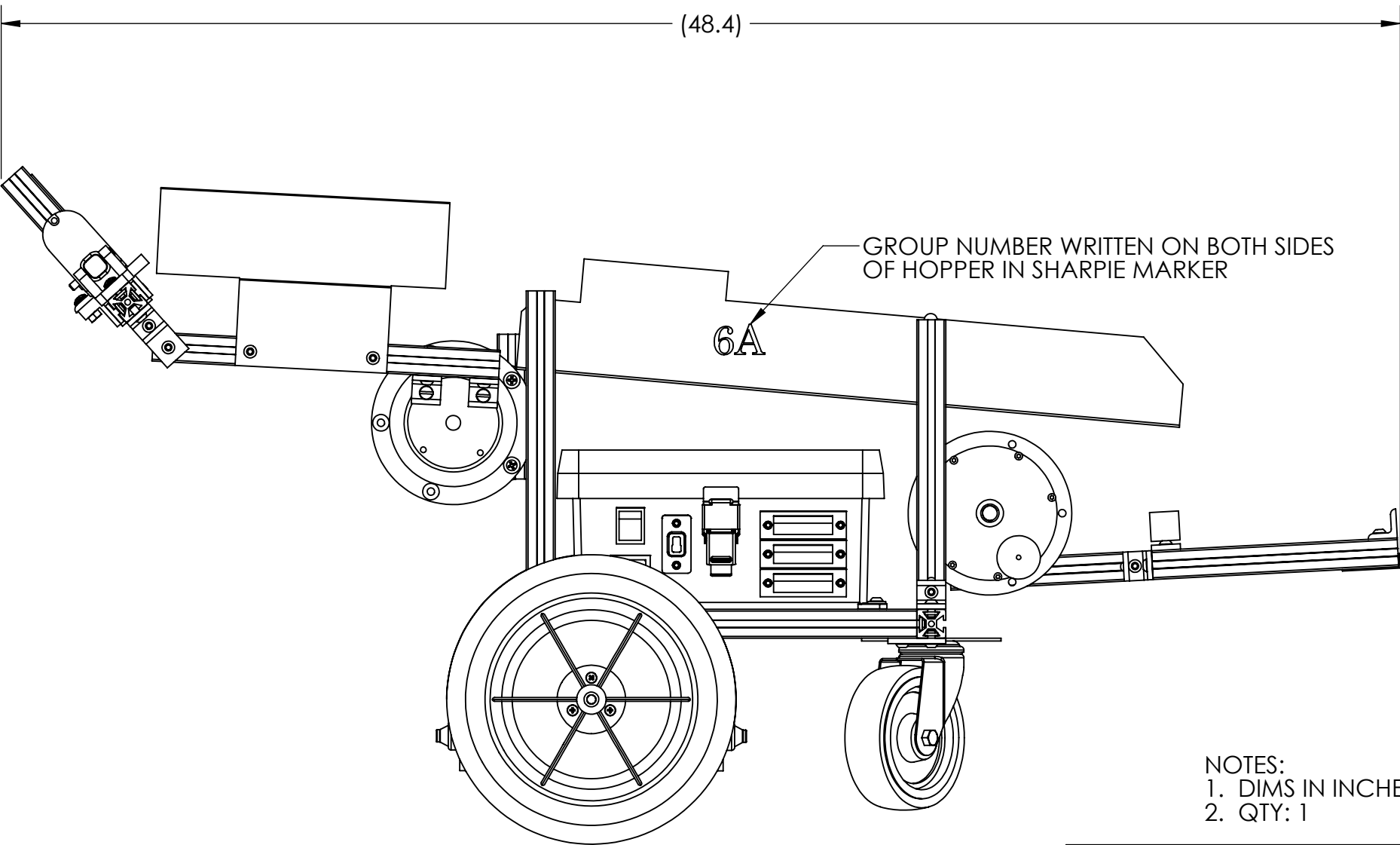
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-000	E

SCALE: 2:9	SHEET 2 OF 10
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- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

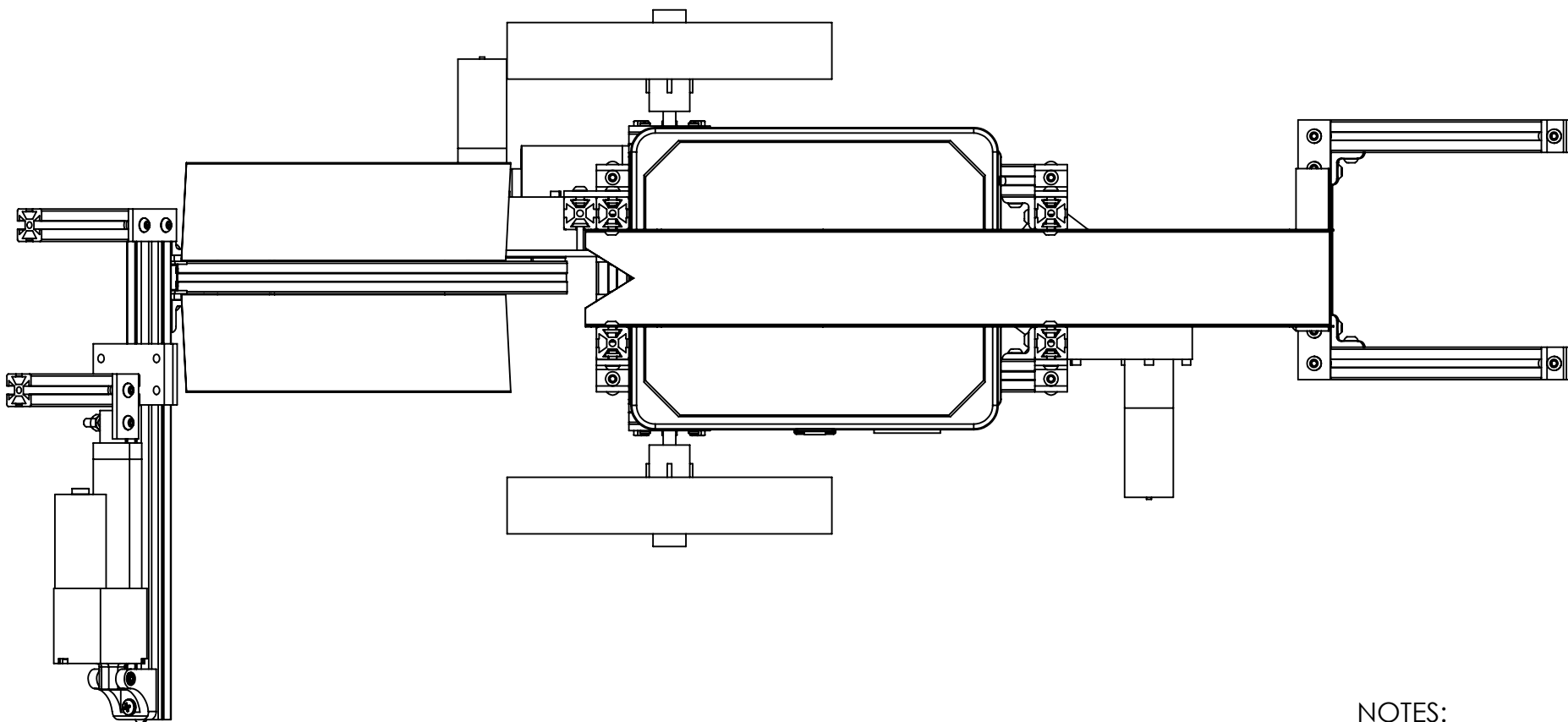
TITLE:  
 FINAL TOTAL ASSEMBLY - OUTSTRETCHED

DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-000	E
SCALE: 1:5		SHEET 3 OF 10



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
FINAL TOTAL ASSEMBLY - OUTSTRETCHED

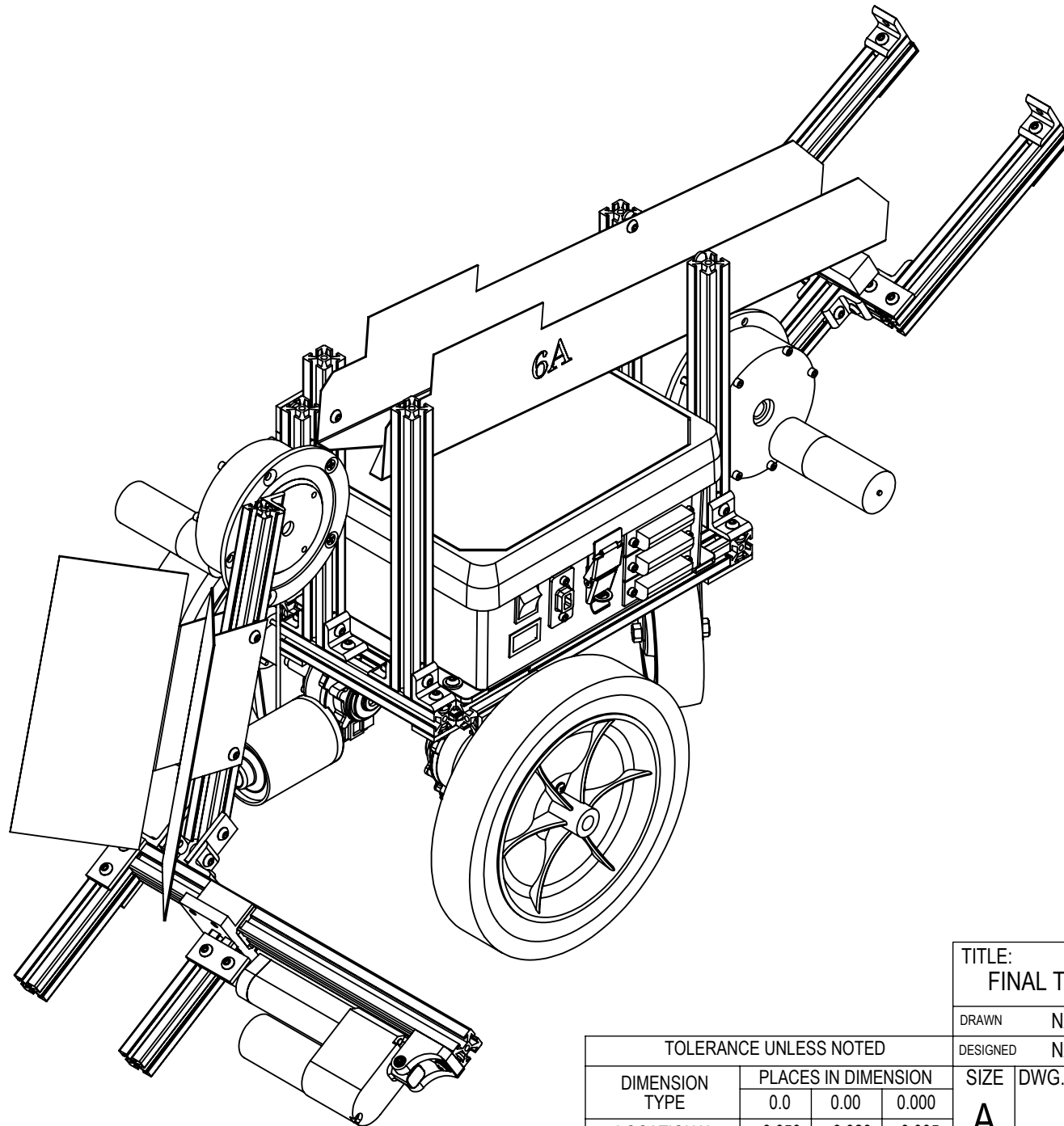
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				DESIGNED      NAN LIN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-000	REV  E
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5	SCALE: 1:5		SHEET 4 OF 10

SCALE: 1:5

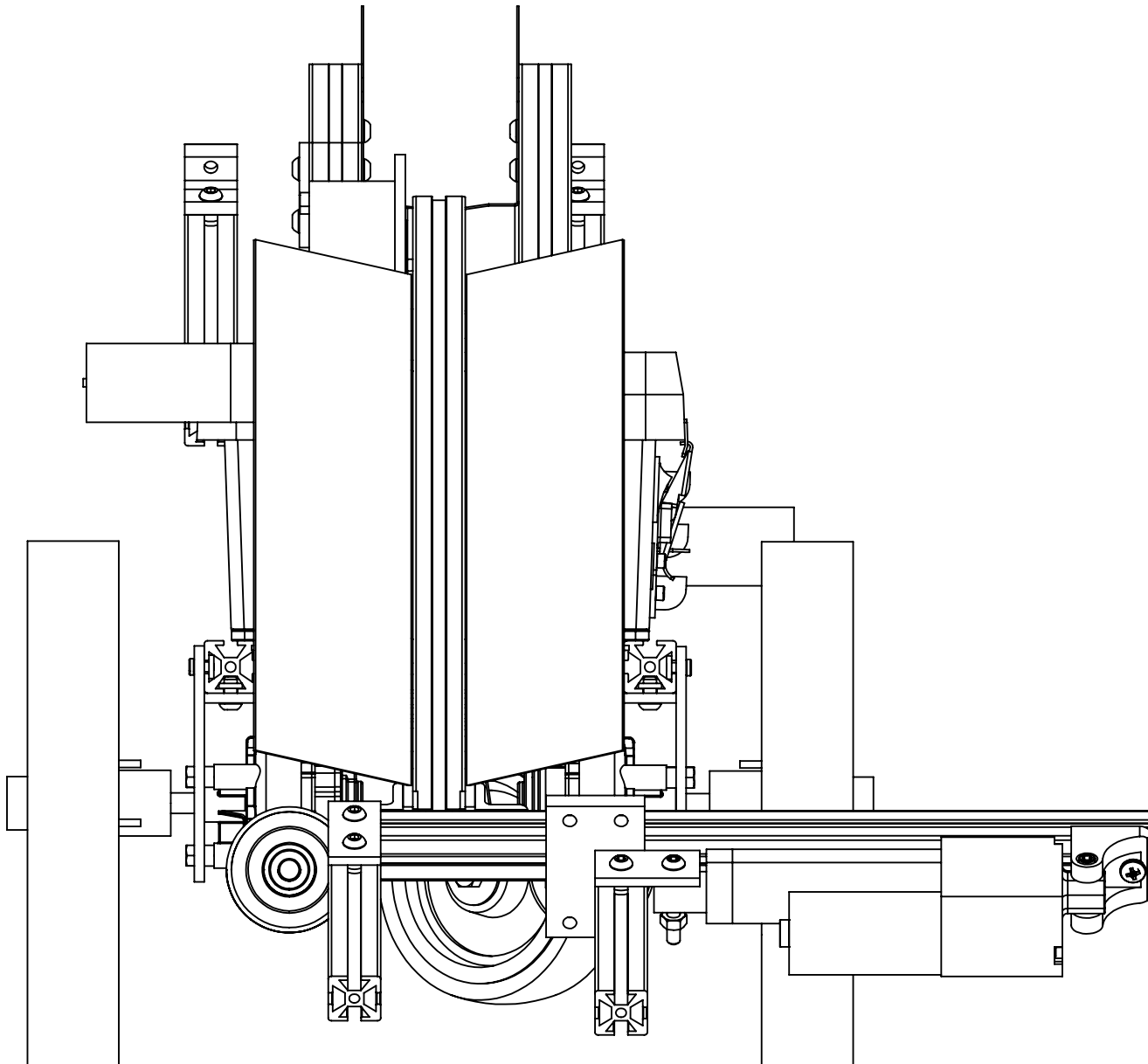
SHEET 4 OF 10



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: FINAL TOTAL ASSEMBLY - RETRACT			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-000		E
SCALE: 1:5		SHEET 5 OF 10	

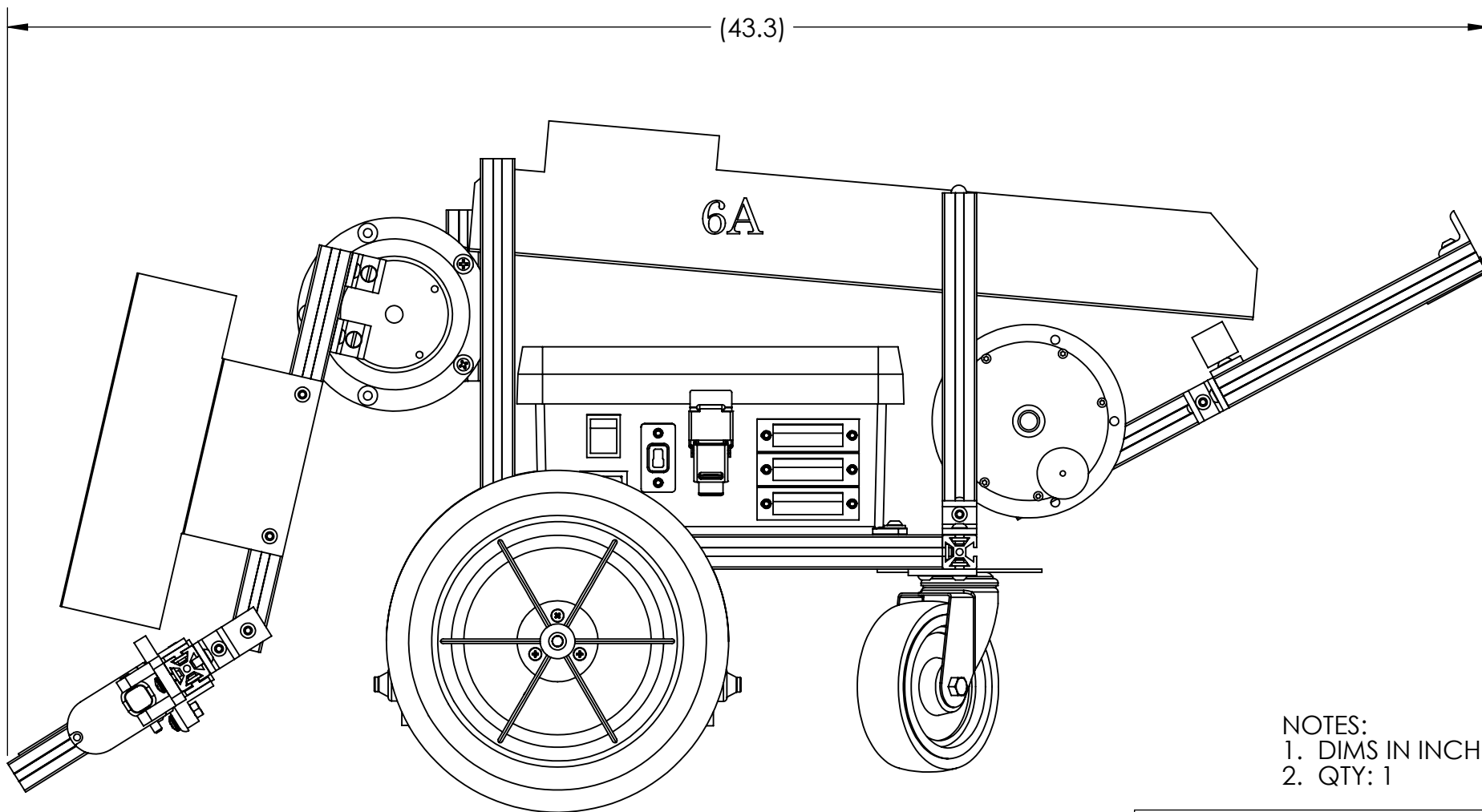
DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: FINAL TOTAL ASSEMBLY - RETRACT				
DRAWN      NAN LIN				
DESIGNED      NAN LIN				
DIMENSION TYPE	PLACES IN DIMENSION			REV
	0.0	0.00	0.000	
LOCATIONAL	±0.050	±0.020	±0.005	
ANGULAR	±5	±2	±0.5	
SIZE	DWG. NO.			
A	EML2322L-A-000			E
SCALE: 5:16				SHEET 6 OF 10

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
FINAL TOTAL ASSEMBLY - RETRACT

DRAWN NAN LIN

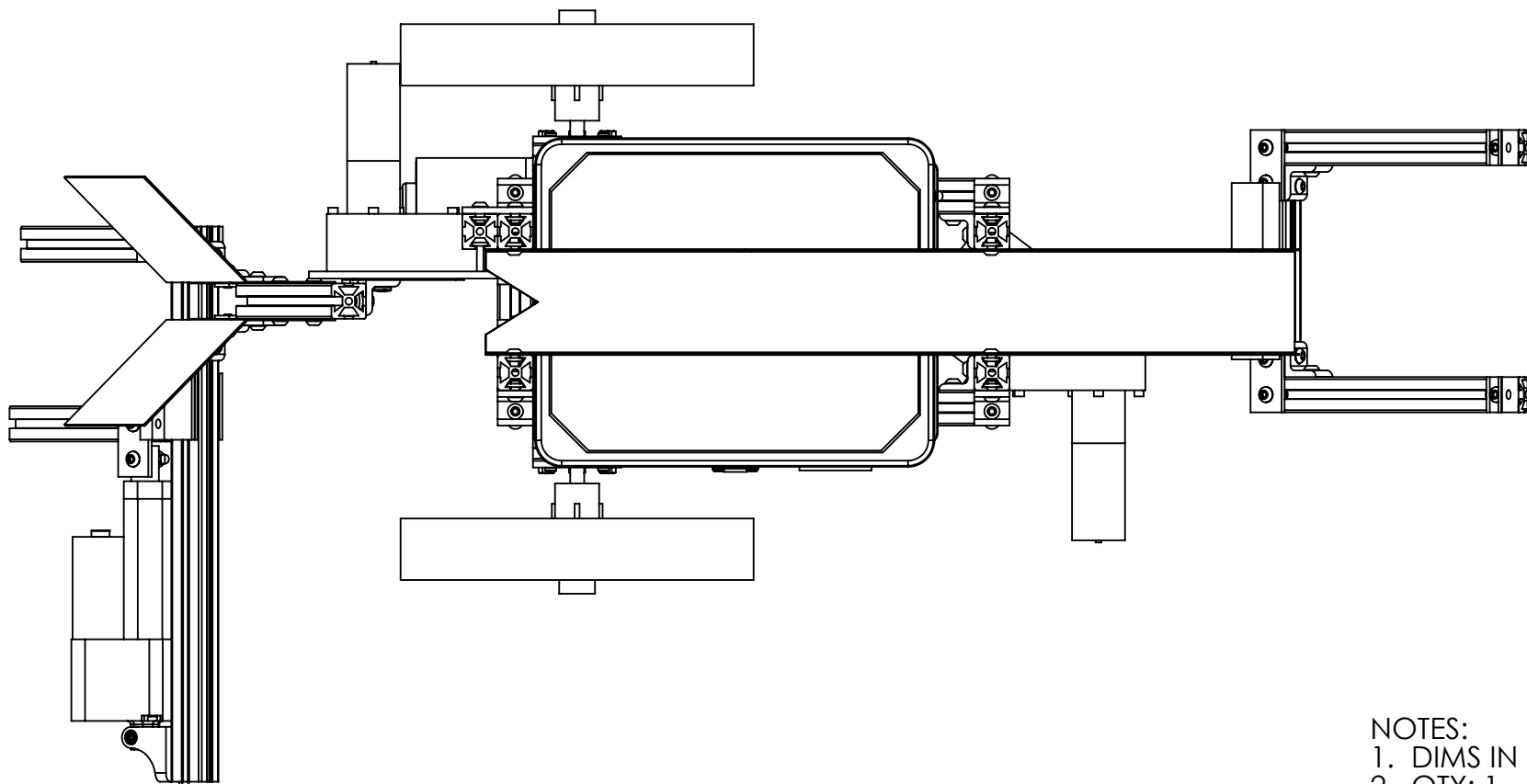
DESIGNED NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-000	E

SCALE: 1:4.5	SHEET 7 OF 10
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NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
FINAL TOTAL ASSEMBLY - RETRACT

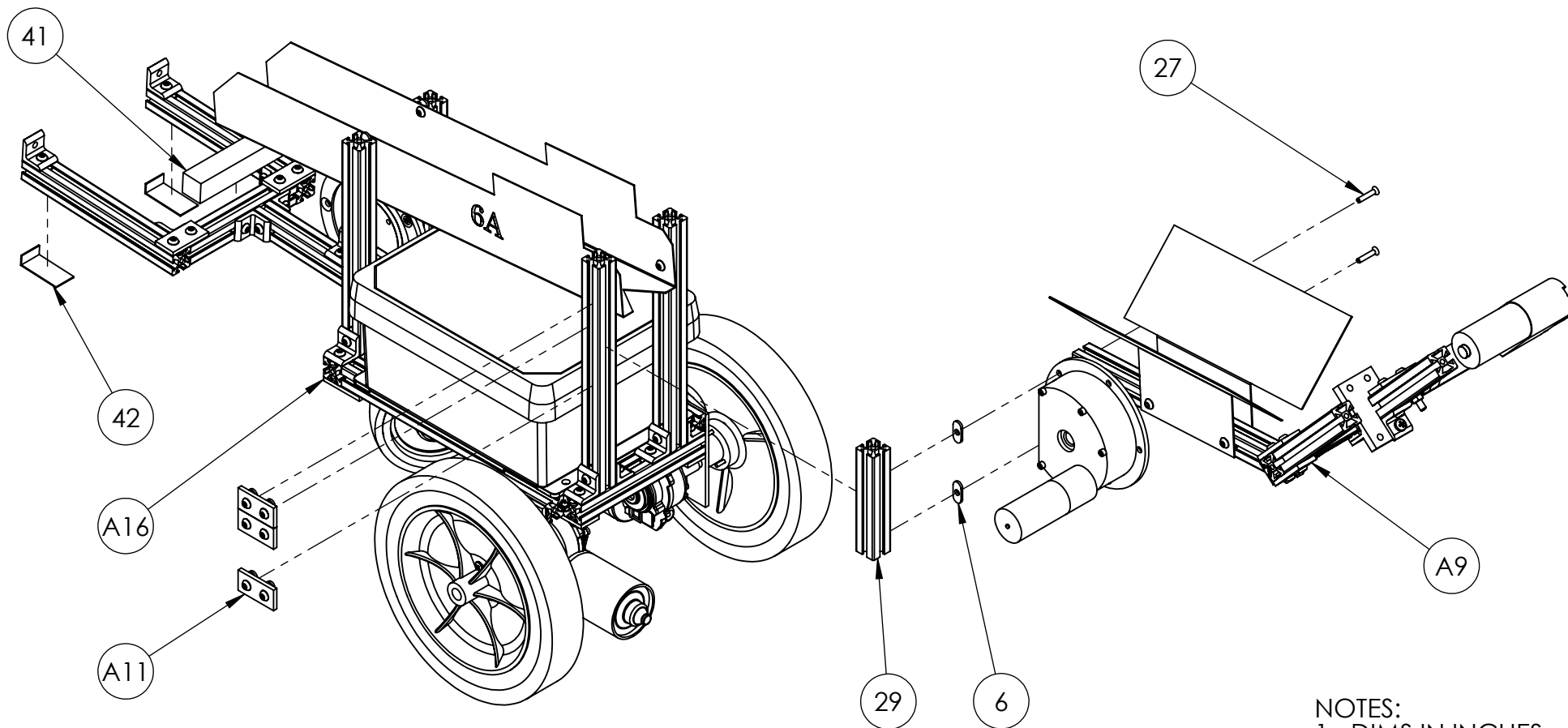
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				DESIGNED      NAN LIN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-000	REV  E
	0.0	0.00	0.000			
	LOCATIONAL	±0.050	±0.020			
ANGULAR	±5	±2	±0.5	SCALE: 1:5		SHEET 8 OF 10

SCALE: 1:5

SHEET 8 OF 10



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: FINAL TOTAL ASSEMBLY - EXPLODE			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-000		E
SCALE: 5:31		SHEET 9 OF 10	

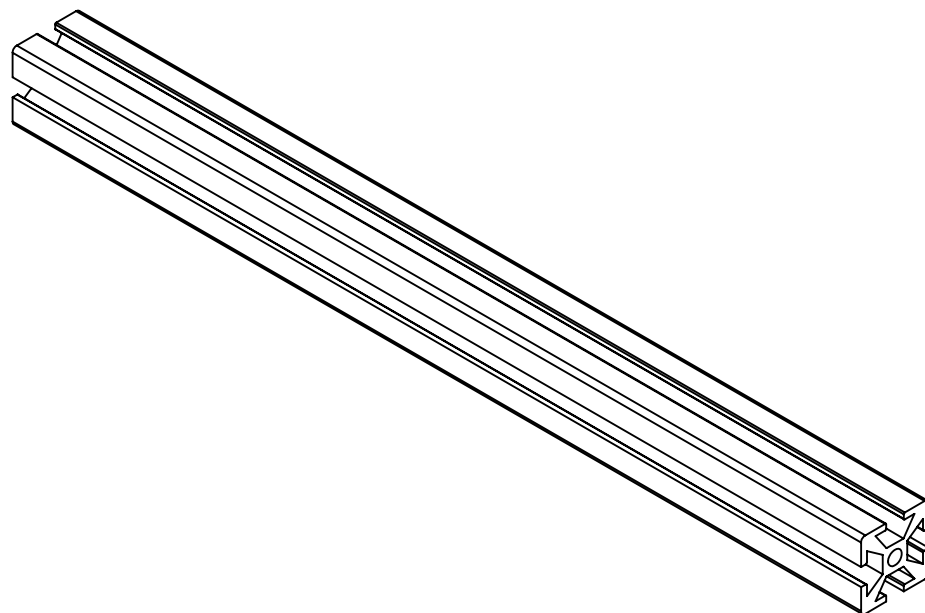
DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

ITEM NO.	PART NUMBER	DESCRIPTION	EXPLODE/QTY.
6	EML2322L-0006	1/4-20 T-NUT	2
27	EML2322L-0027	1/4-20 x 1.0 in FLAT HEAD SCREW	2
29	EML2322L-0029	80-20 EXTRUSION - 5.0 in	1
41	EML2322L-0041	TITANIUM COUNTERWEIGHT	1
42	EML2322L-0042	RUBBER PADS	2
A9	EML2322L-A-009	BALL MANIPULATOR TOTAL ASSEMBLY	1
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	3
A16	EML2322L-A-016	PLATFORM WITH BOX/HOPPER/BUCKET ASSEMBLY	1

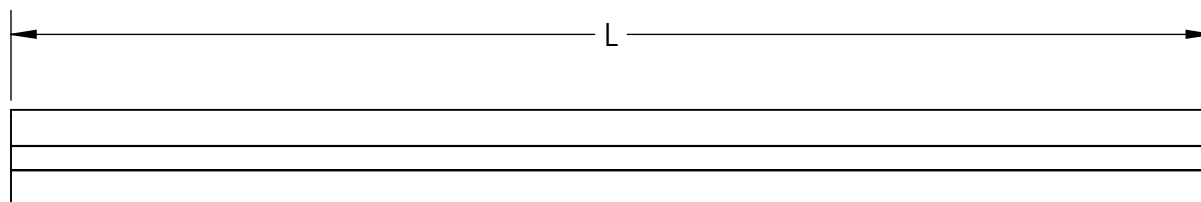
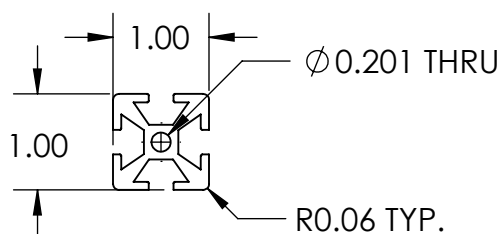
NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: FINAL TOTAL ASSEMBLY - EXPLODE			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE <b>A</b>	DWG. NO. <b>EML2322L-A-000</b>		REV <b>E</b>
SCALE: 1:15			SHEET 10 OF 10

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



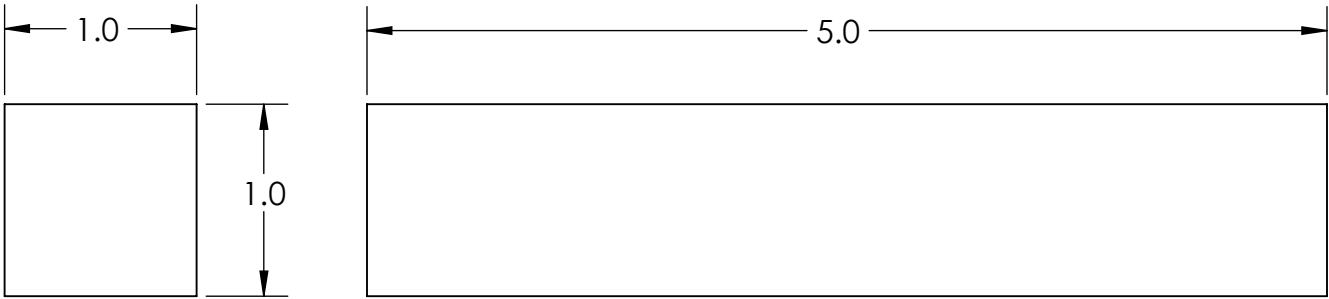
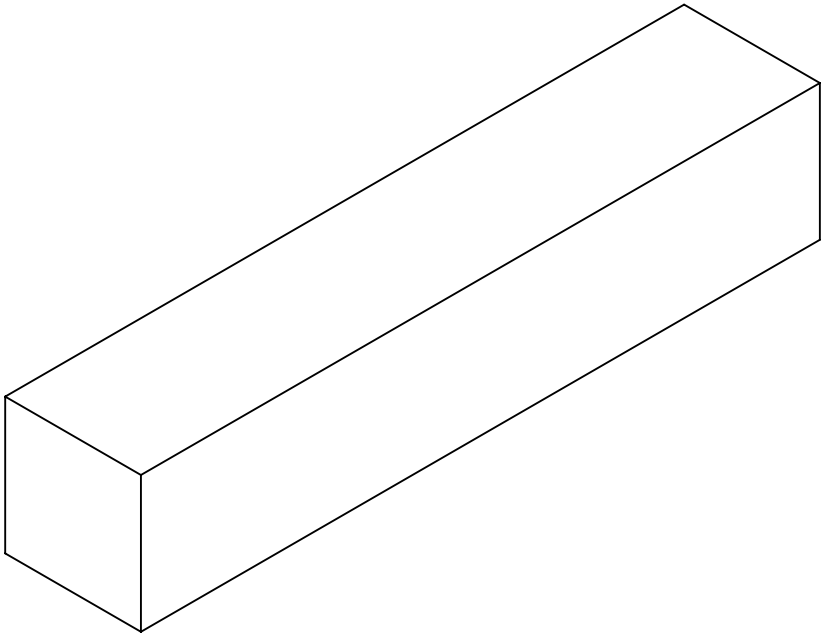
ITEM NO.	PART NUMBER	LENGTH (in.)	QTY.
1	EML2322L-0001	7.0	3
2	EML2322L-0002	12.5	2
3	EML2322L-0003	3.0	2
21	EML2322L-0021	10.0	2
23	EML2322L-0023	11.0	2
29	EML2322L-0029	5.0	2
30	EML2322L-0030	8.5	2
31	EML2322L-0031	6.0	1
32	EML2322L-0032	12.0	1
34	EML2322L-0034	15.7	1
38	EML2322L-0038	4.5	1



#### NOTES:

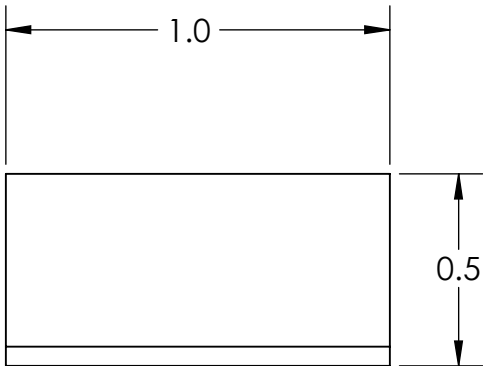
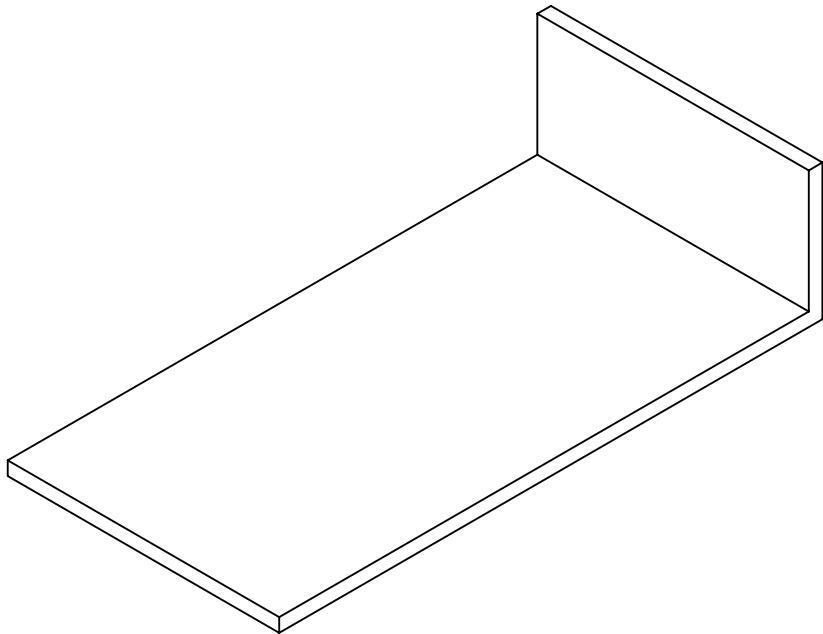
1. DIMS IN INCHES
2. MAT'L: 80/20 AL EXTRUSION
3. BREAK CUT ENDS
4. FINISH NO SURFACES
5. QTY SPECIFIED IN TABLE
6. USE CUT OFF TOLERANCES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			80/20 EXTRUSION		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	±0.050	±0.020	±0.005	DESIGNED	I. WIDJAJA	
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-XXX	E
ANGULAR DIMS	±5	±2	±0.5	SCALE: 1:2		SHEET 1 OF 1



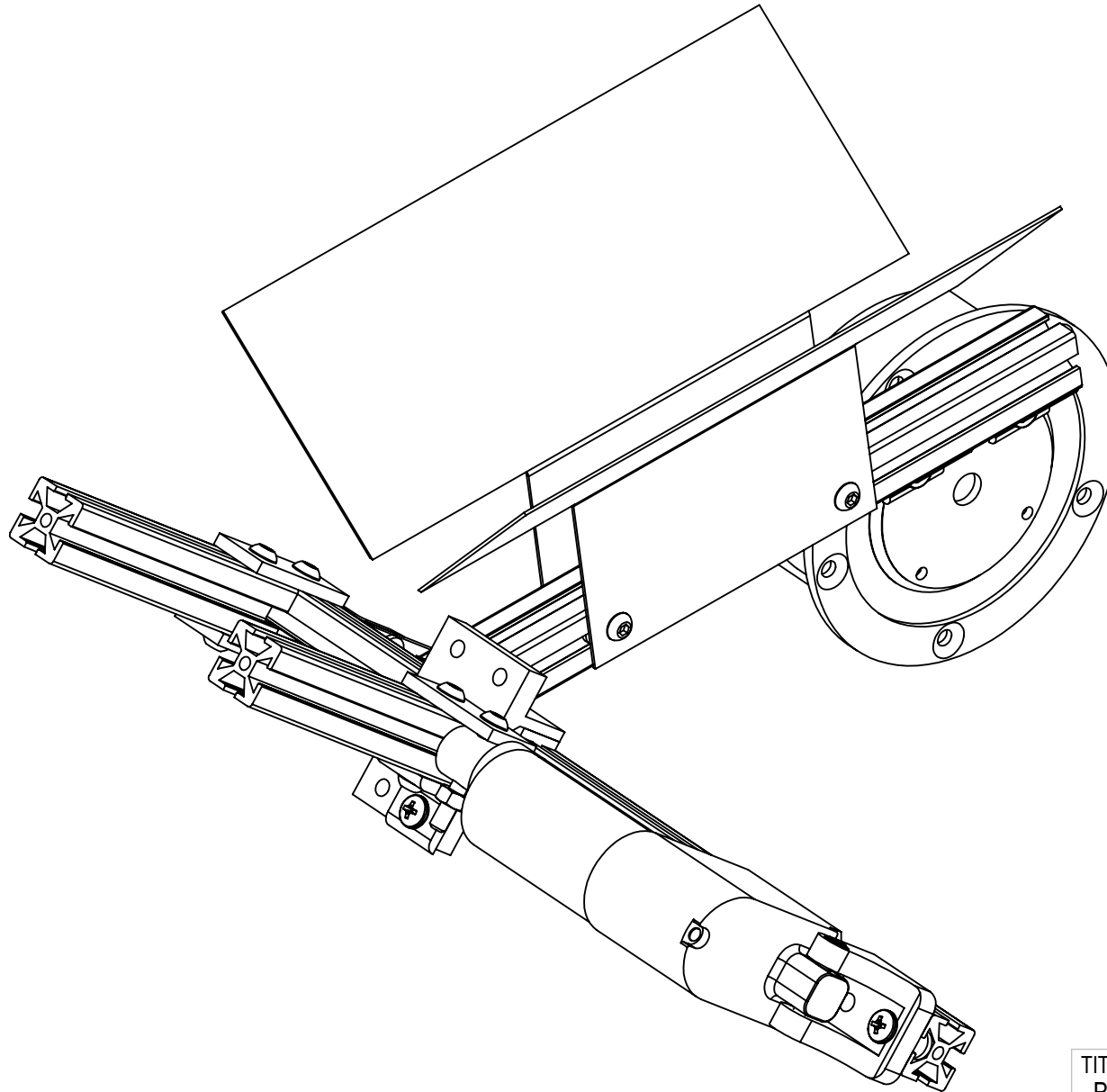
- NOTES:
- 1. ALL DIMS IN INCHES
  - 2. QTY: 1
  - 3. DIM AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			TITANIUM COUNTERWEIGHT		
	0.0	0.00	0.000	DRAWN	MARK YEN	
CALIPERS			±0.005	DESIGNED	MARK YEN	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0041	A
PROTRACTOR	±10	±5	±2	SCALE: 1:1		SHEET 1 OF 1



NOTES:  
1. ALL DIMS IN INCHES  
2. QTY: 2  
3. DIM AND MAT'L SPECIFIED  
BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:  RUBBER PADS			
MEASURING INSTRUMENT	PLACES IN DIMENSION						
	0.0	0.00	0.000	DRAWN      MARK YEN			
CALIPERS			±0.005	DESIGNED      MARK YEN			
PRECISION RULER		±0.015		SIZE	DWG. NO.		REV
TAPE MEASURE	±0.030			A	EML2322L-0042		A
PROTRACTOR	±10	±5	±2	SCALE: 2:1		SHEET 1 OF 1	



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
BALL MANIPULATOR TOTAL ASSEMBLY

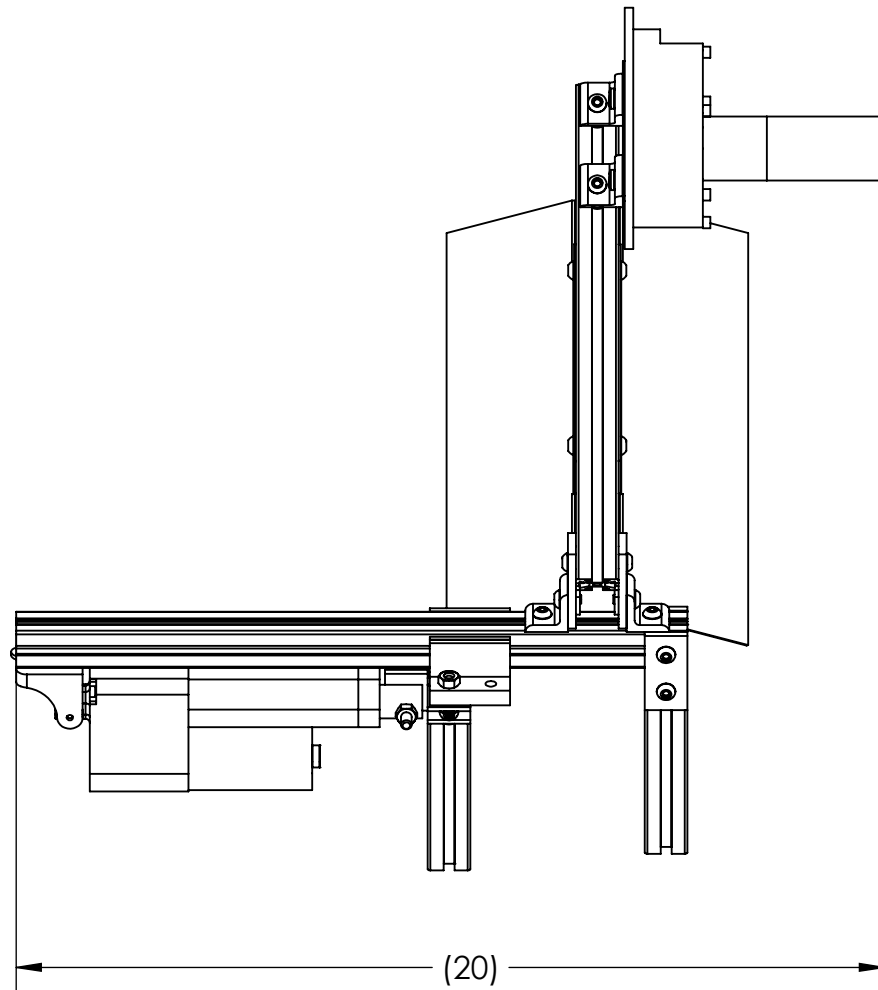
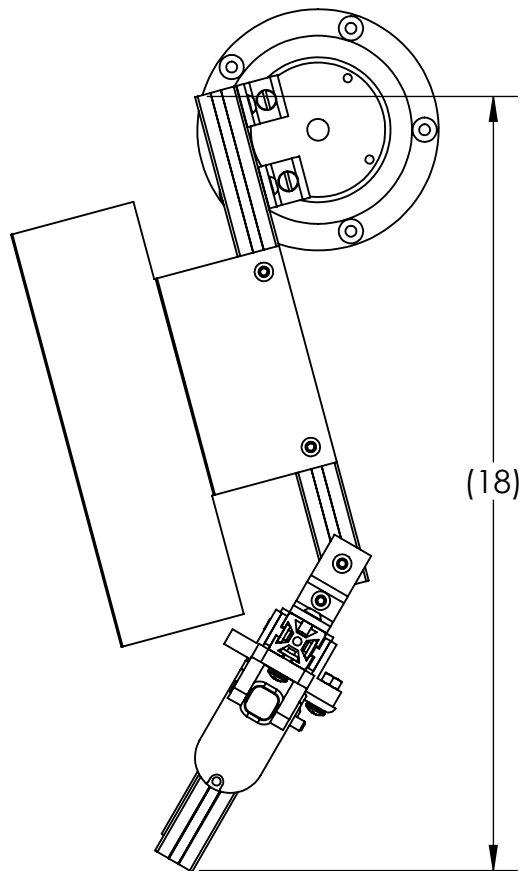
DRAWN ALLEN ZHOU

DESIGNED ALLEN ZHOU

SIZE	DWG. NO.	REV
A	EML2322L-A-009	A

SCALE: 1:2.5 SHEET 1 OF 18

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 BALL MANIPULATOR TOTAL ASSEMBLY

DRAWN ALLEN ZHOU

DESIGNED ALLEN ZHOU

SIZE	DWG. NO.	REV
A	EML2322L-A-009	A

SCALE: 1:4.5

SHEET 2 OF 18

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

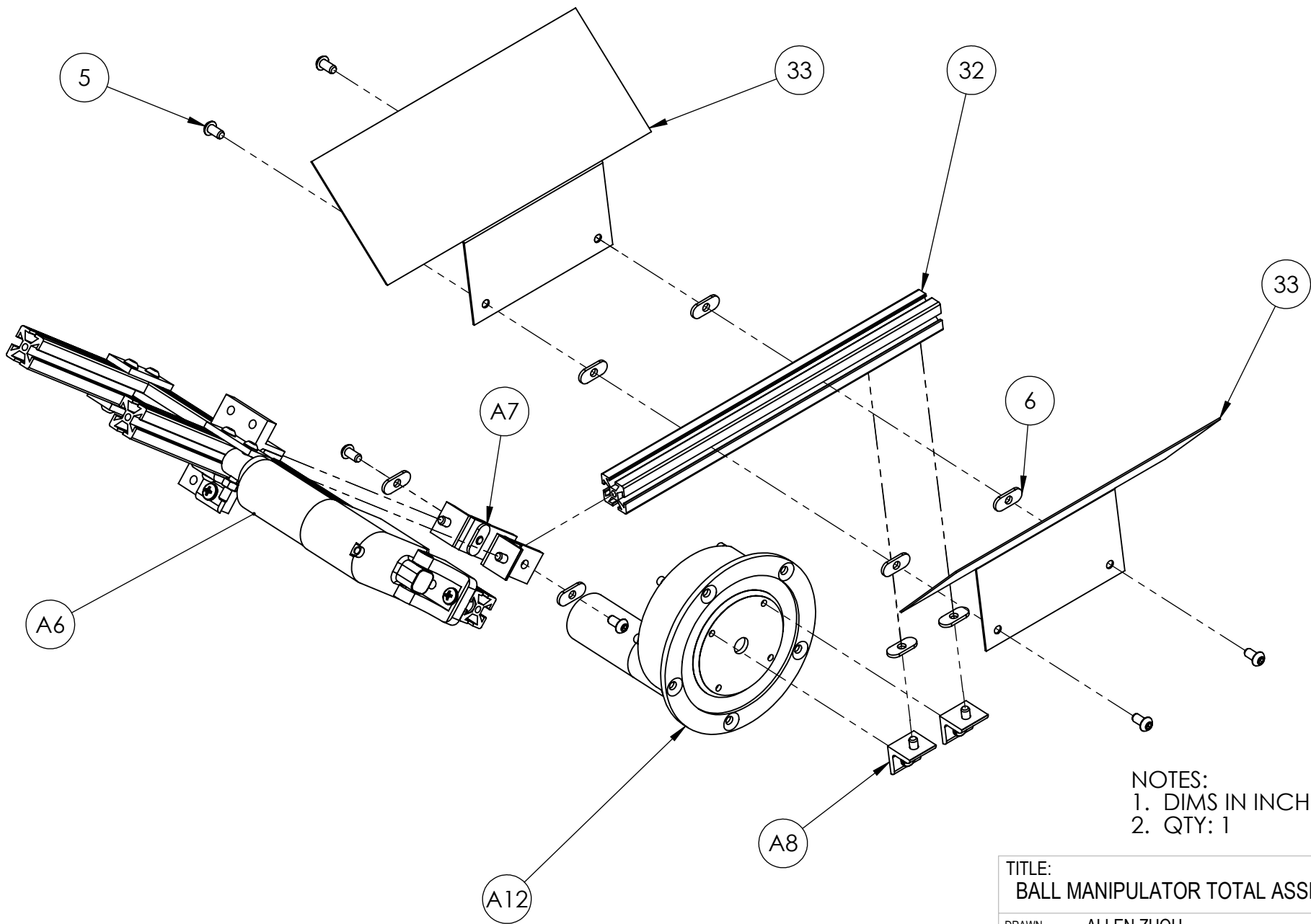


ITEM NO.	PART NUMBER	DESCRIPTION	STRETCH/QTY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	6
6	EML2322L-0006	1/4-20 T-NUT	8
33	EML2322L-0033	BALL MANIPULATOR CHANNEL	2
32	EML2322L-0032	80/20 EXTRUSION - 12 in	1
A6	EML2322L-A-006	CLAW ASSEMBLY	1
A7	EML2322L-A-007	CLAW MOUNT ASSEMBLY	2
A8	EML2322L-A-008	GLOBE MOTOR BRACKET ASSEMBLY	2
A12	EML2322L-A-012	4.5 RPM GLOBE MOTOR ASSEMBLY	1
33	EML2322L-0033	BALL MANIPULATOR CHANNEL MOTOR SIDE	1

NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: BALL MANIPULATOR TOTAL ASSEMBLY			
DRAWN		ALLEN ZHOU	
DESIGNED		ALLEN ZHOU	
SIZE	DWG. NO.		REV
A	EML2322L-A-009		A
SCALE: 1:8		SHEET 3 OF 18	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 BALL MANIPULATOR TOTAL ASSEMBLY

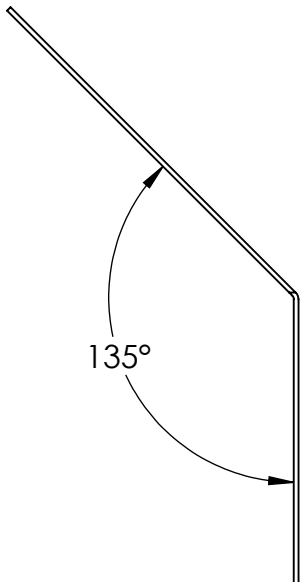
DRAWN ALLEN ZHOU

DESIGNED ALLEN ZHOU

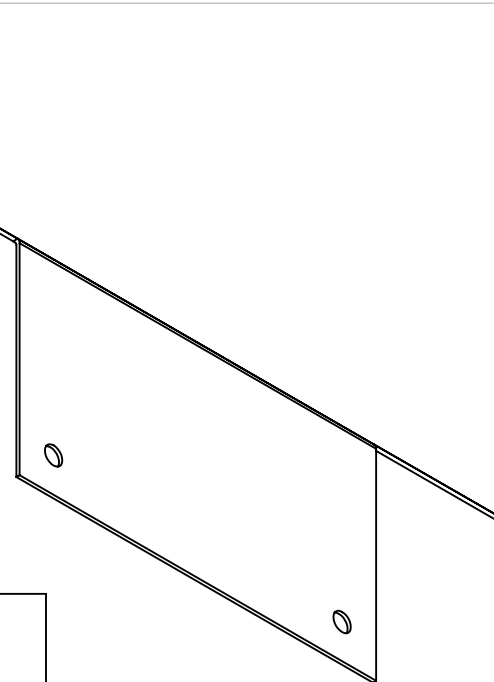
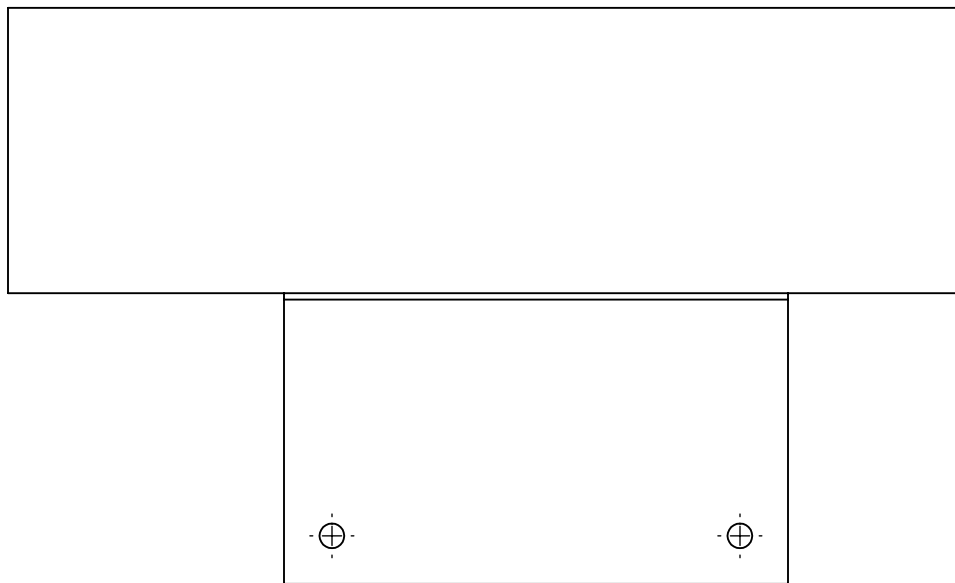
SIZE	DWG. NO.	REV
A	EML2322L-A-009	A

SCALE: 1:4 SHEET 4 OF 18

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

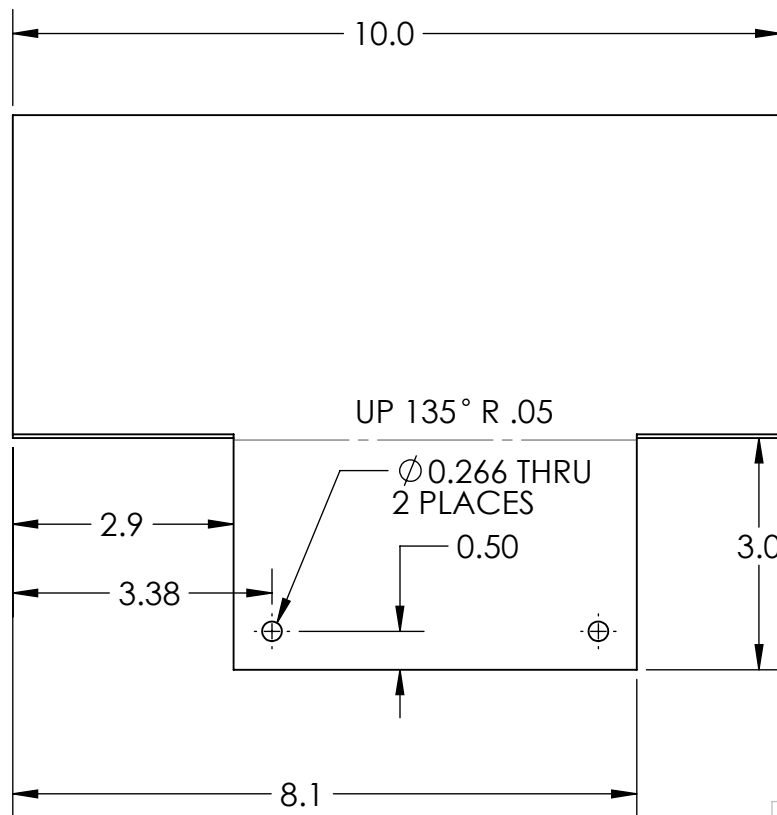


FOLDED VIEW

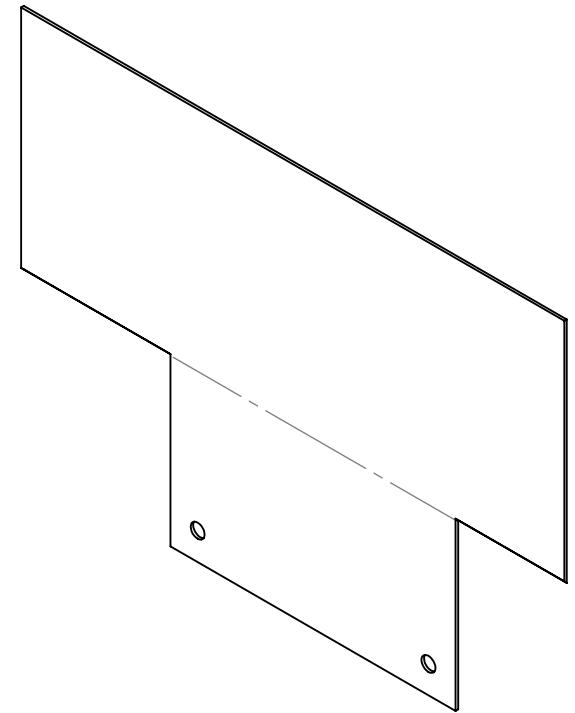


- NOTES:
1. QTY: 1
  2. MATL: 20GA STEEL
  3. DIMS IN INCHES
  4. BREAK ALL EDGES
  5. UNFINISHED SURFACES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL MANIPULATOR CHANNEL		
	0.0	0.00	0.000	DRAWN	ALLEN ZHOU	
MACHINING				DESIGNED	ALLEN ZHOU	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0034	E
ANGULAR DIMS	±5	±2		SCALE: 1:2		SHEET 5 OF 18

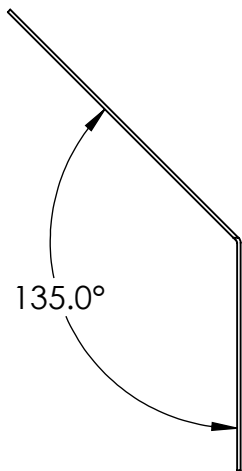


UNFOLDED VIEW

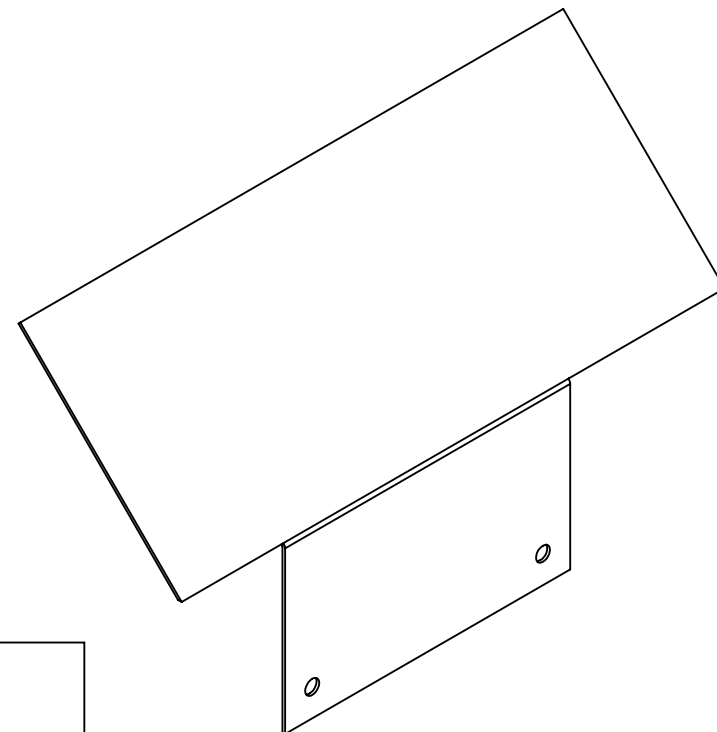
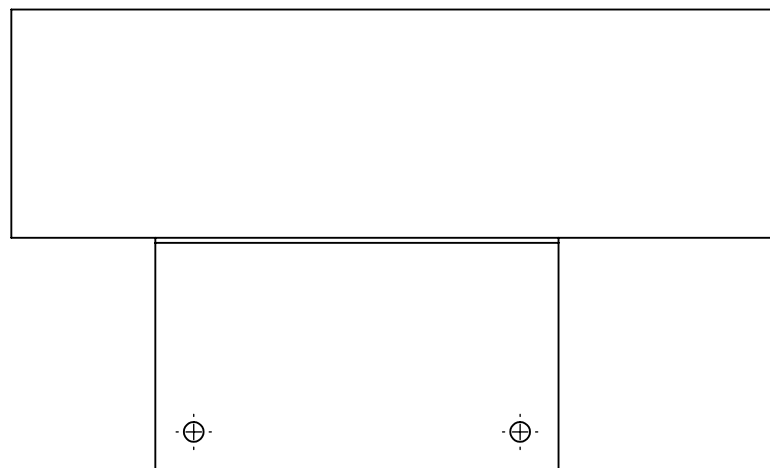


- NOTES:
- 1.QTY: 1
  - 2.MATL: 20GA STEEL
  - 3.DIMS IN INCHES
  - 4.BREAK ALL EDGES
  - 5.FINISH NO SURFACE

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL MANIPULATOR CHANNEL		
	0.0	0.00	0.000	DRAWN	ALLEN ZHOU	
MACHINING				DESIGNED	ALLEN ZHOU	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0034	E
ANGULAR DIMS	±5	±2		SCALE: 1:2.5		SHEET 6 OF 18

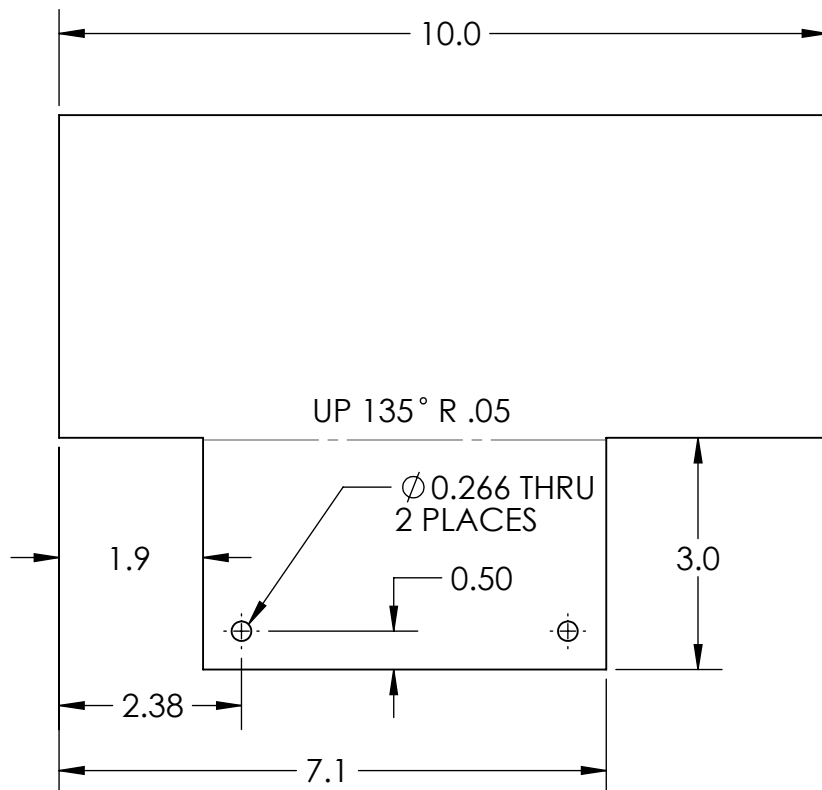


FOLDED VIEW

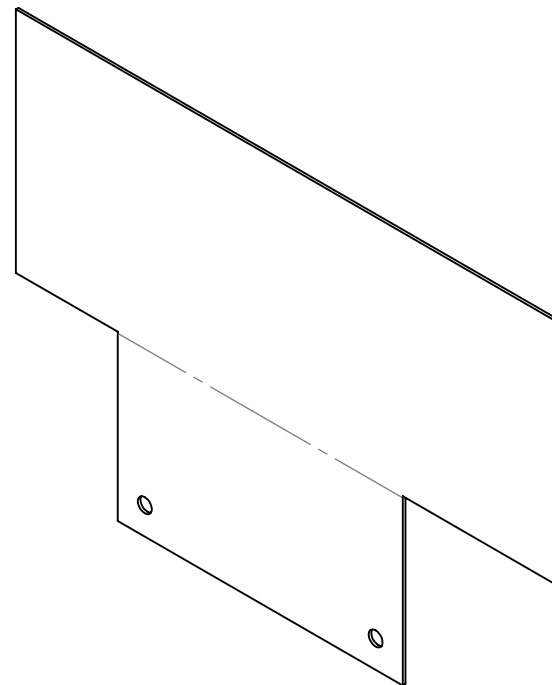
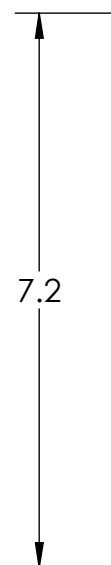


- NOTES:
1. QTY: 1
  2. MATL: 20GA STEEL
  3. DIMS IN INCHES
  4. BREAK ALL EDGES
  5. UNFINISHED SURFACES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL MANIPULATOR CHANNEL		
	0.0	0.00	0.000	DRAWN	ALLEN ZHOU	
MACHINING				DESIGNED	ALLEN ZHOU	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0034	E
ANGULAR DIMS	±5	±2		SCALE: 1:2.5		SHEET 7 OF 18

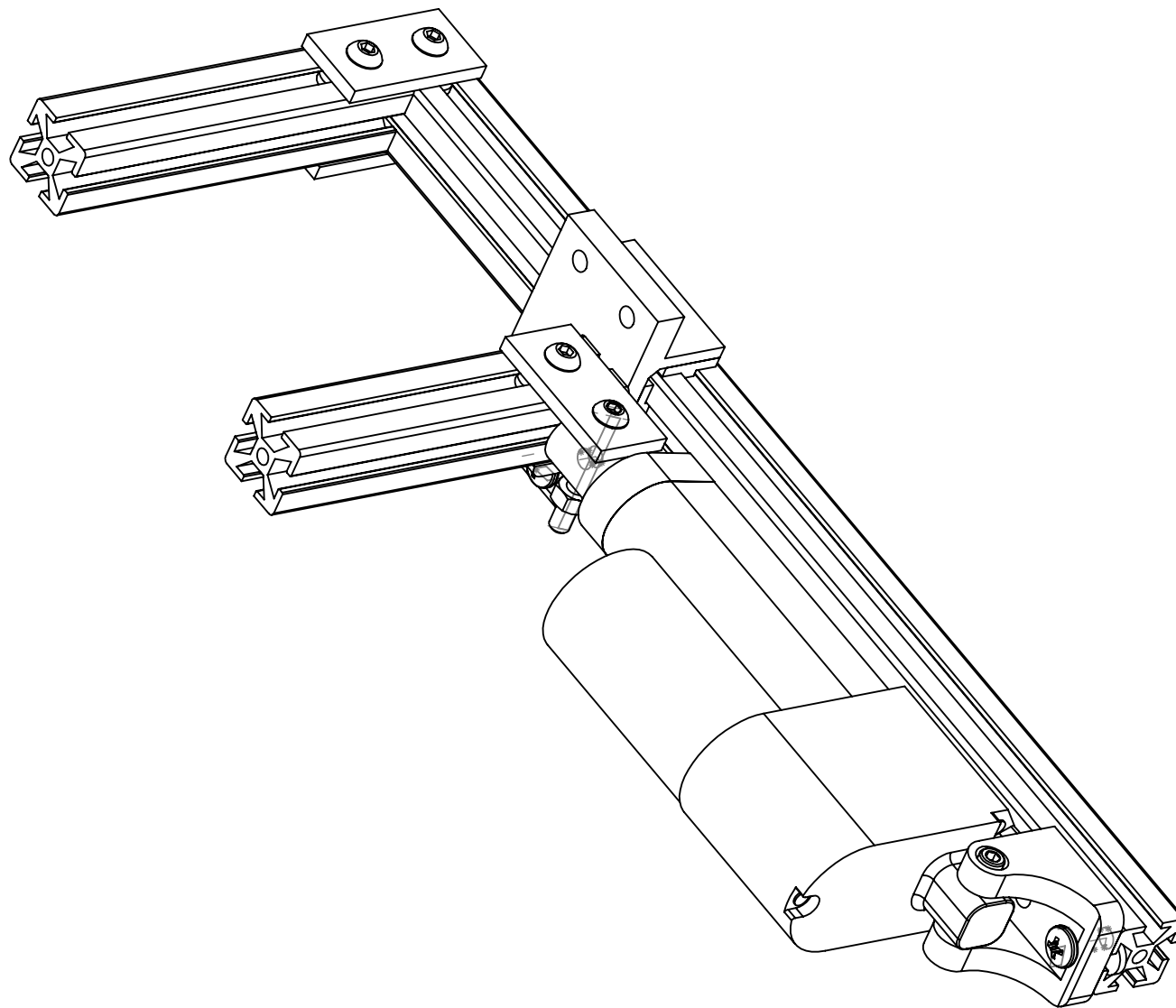


UNFOLDED VIEW



- NOTES:  
 1. QTY: 1  
 2. MATL: 20GA STEEL  
 3. DIMS IN INCHES  
 4. BREAK ALL EDGES  
 5. FINISH NO SURFACE

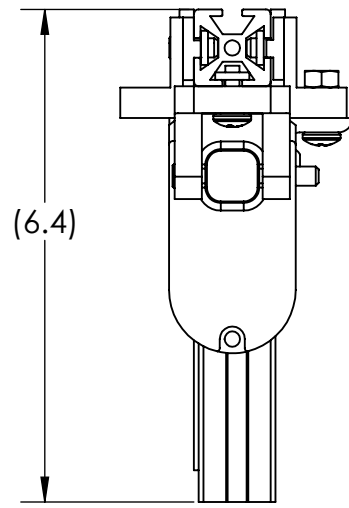
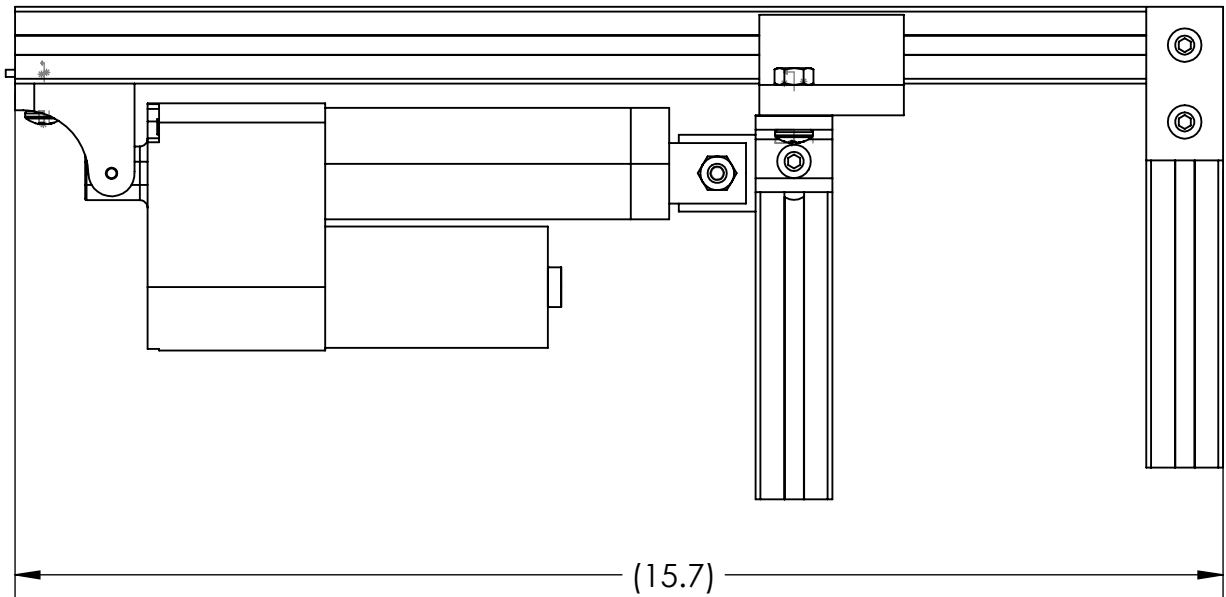
TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL MANIPULATOR CHANNEL		
	0.0	0.00	0.000	DRAWN	ALLEN ZHOU	
MACHINING				DESIGNED	ALLEN ZHOU	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0034	E
ANGULAR DIMS	±5	±2		SCALE: 1:2.5		SHEET 8 OF 18



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:				CLAW ASSEMBLY			
DRAWN				ALLEN ZHOU			
DESIGNED				ALLEN ZHOU			
SIZE	DWG. NO.			REV			
A	EML2322L-A-006			A			
SCALE: 1:8					SHEET 9 OF 18		

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
 1. QTY: 1  
 2. DIMS IN INCHES

TITLE:			
CLAW ASSEMBLY			
DRAWN		ALLEN ZHOU	
DESIGNED		ALLEN ZHOU	
SIZE	DWG. NO.		REV
A	EML2322L-A-006		A
SCALE: 1:2.5		SHEET 10 OF 18	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

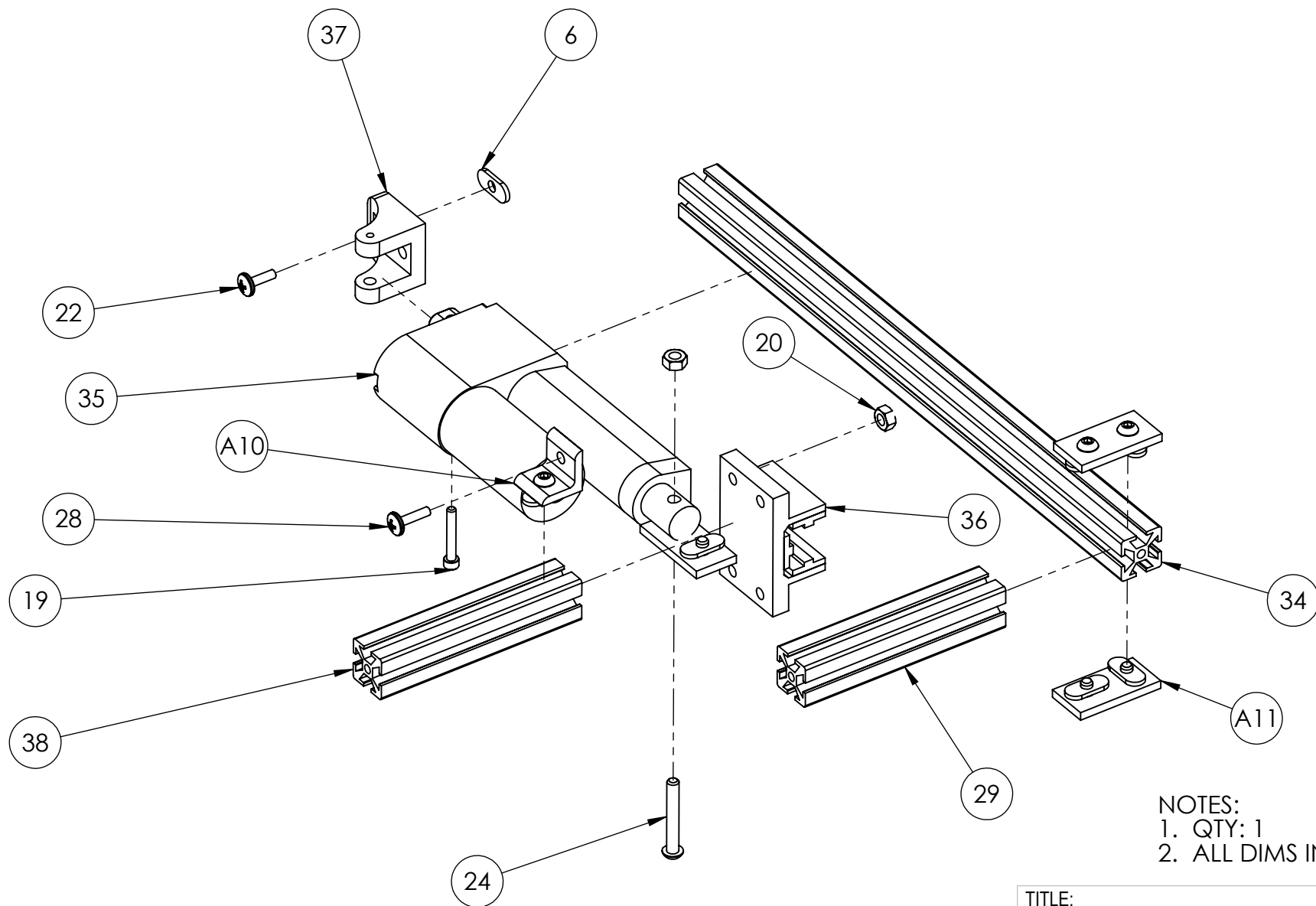


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	EML2322L-0006	1/4-20 T-NUT	1
34	EML2322L-0034	80/20 EXTRUSION - 15.7 in	1
36	EML2322L-0036	80/20 LINEAR SLIDE	1
37	EML2322L-0037	10-24 LINEAR ACTUATOR MOUNT	1
35	EML2322L-0035	30 IPM SPAL LINEAR ACTUATOR (2in)	1
28	EML2322L-0028	1/4-20 x 3/4 in PAN HEAD SCREW	1
24	EML2322L-0024	1/4-20 x 1.75 in BUTTON HEAD SCREW	1
22	EML2322L-0022	1/4-20 x 5/8 in PAN HEAD SCREW	1
20	EML2322L-0020	1/4-20 in HEX NUT	2
19	EML2322L-0019	10-24 x 1.25 in SOCKET HEAD SCREW	1
38	EML2322L-0038	80-20 EXTRUSION - 4.5 in	1
A10	EML2322L-A-010	90-DEGREE BRACKET ASSEMBLY	1
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	1
29	EML2322L-0029	80-20 EXTRUSION - 5.0 in	1
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	2

NOTES:  
 1. QTY: 1  
 2. ALL DIMS IN INCHES

TITLE:			
CLAW ASSEMBLY			
DRAWN		ALLEN ZHOU	
DESIGNED		ALLEN ZHOU	
SIZE	DWG. NO.		REV
A	EML2322L-A-006		A
SCALE: 1:8		SHEET 11 OF 18	

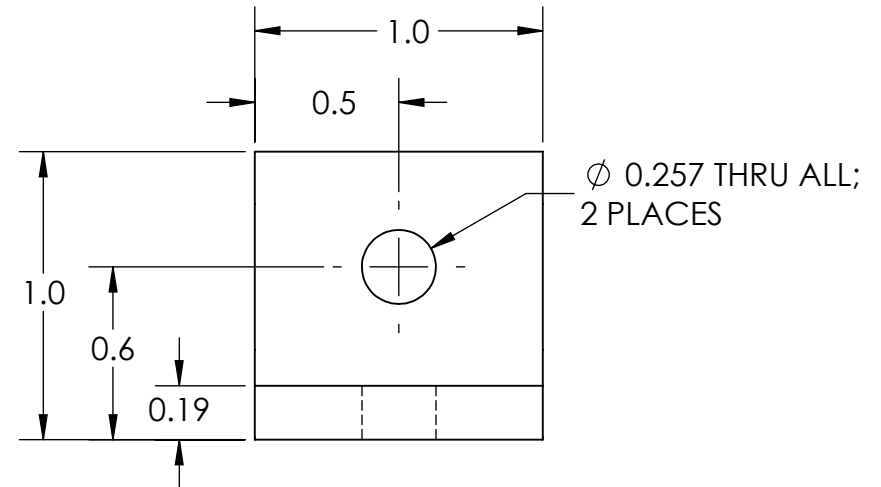
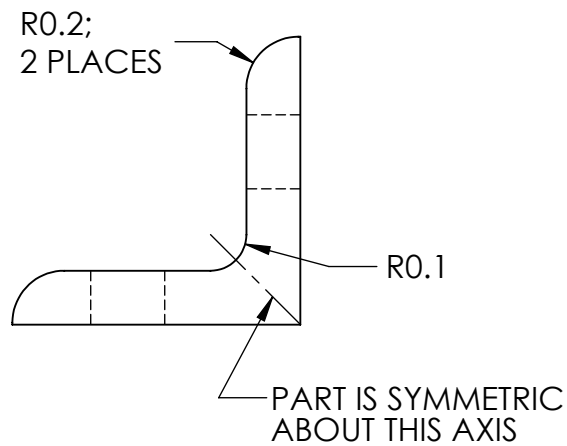
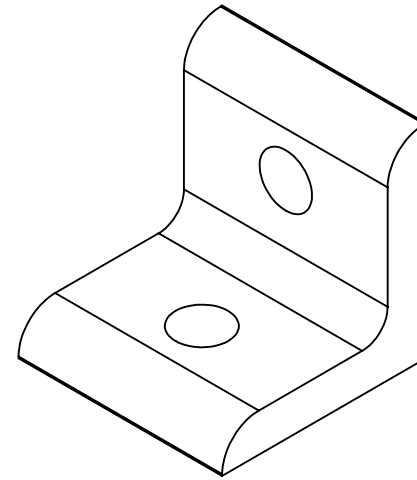
TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
 1. QTY: 1  
 2. ALL DIMS IN INCHES

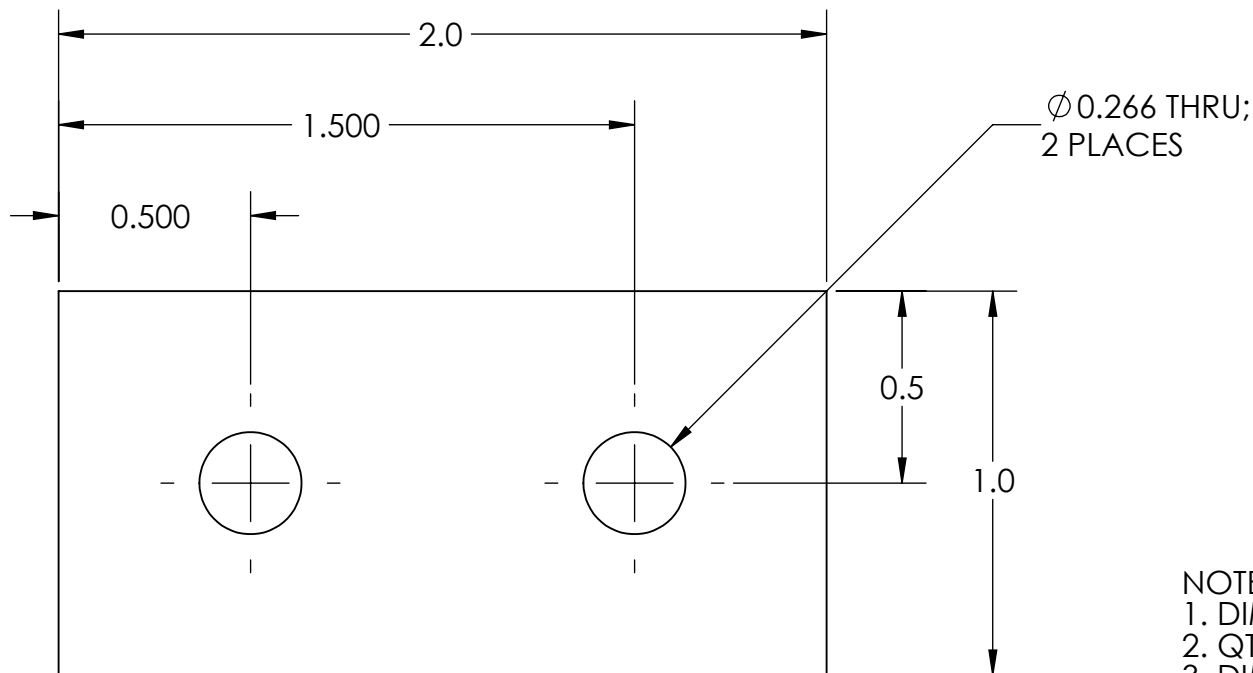
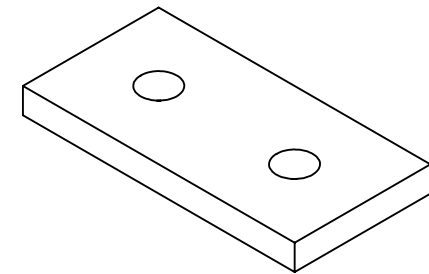
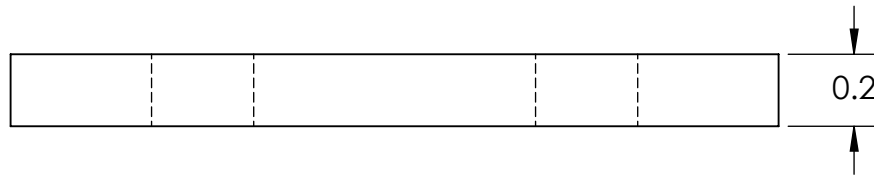
TITLE:				
CLAW ASSEMBLY				
DRAWN		ALLEN ZHOU		
DESIGNED		ALLEN ZHOU		
SIZE	DWG. NO.			REV
A	EML2322L-A-006			A
SCALE:1:3		SHEET 12 OF 18		

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



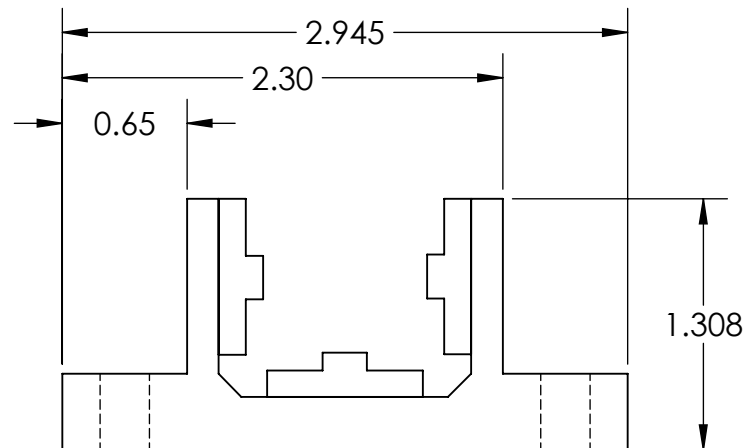
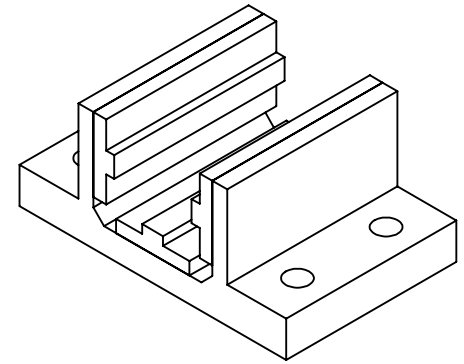
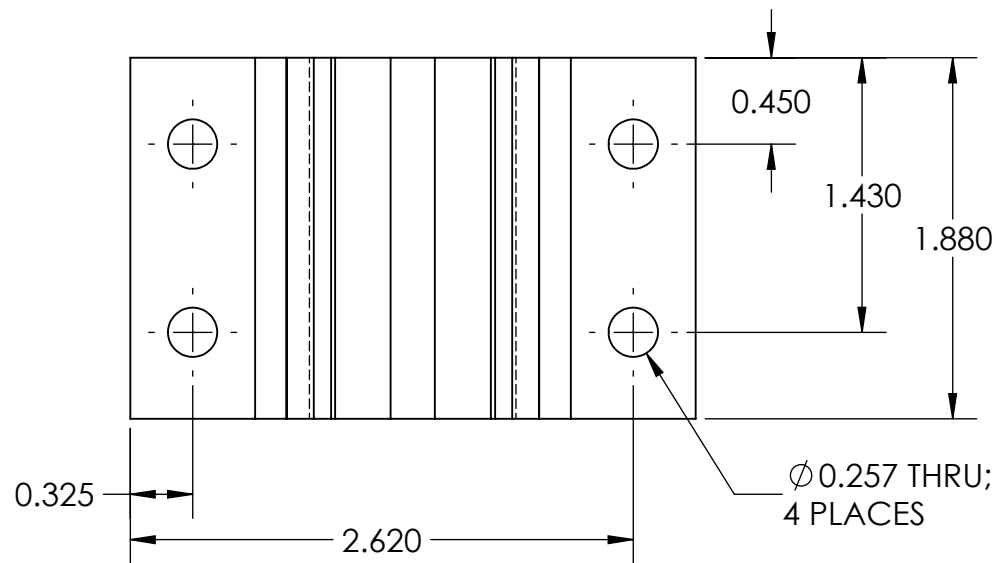
- NOTES:
1. DIMS IN INCHES
  2. QTY SPECIFIED IN BOM
  3. DIMS SPECIFIED BY MANUFACTURER
  4. MAT'L: ALUMINUM

TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			80/20 90 DEG ANGLE BRACKET		
	0.0	0.00	0.000	DRAWN	J. DERSCH	
CALIPERS			±0.005	DESIGNED	80/20 INC.	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0004	A
PROTRACTOR	±10	±5	±2	SCALE: 1.5:1		SHEET 1 OF 1



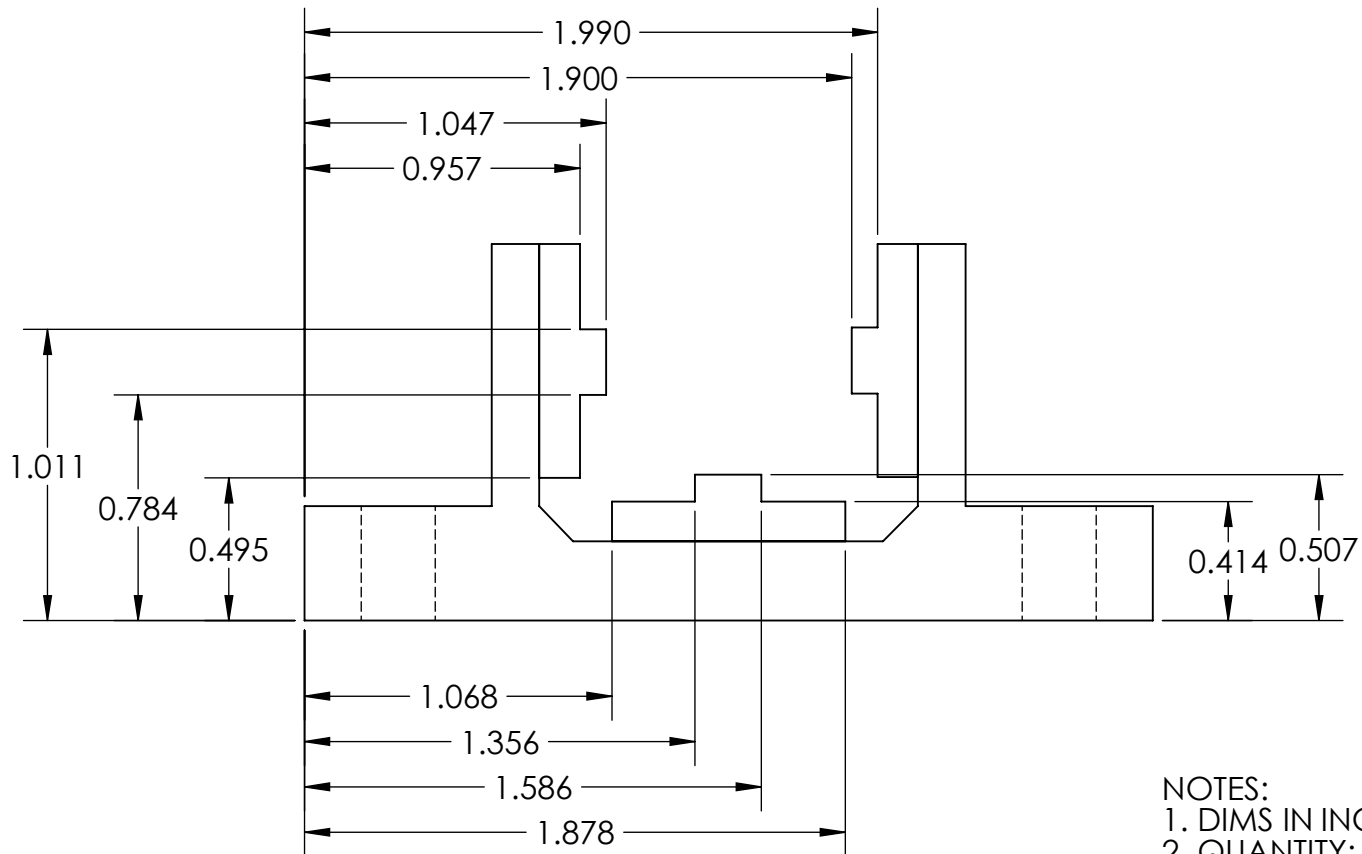
- NOTES:  
 1. DIMS IN INCHES  
 2. QTY SPECIFIED IN BOM  
 3. DIMS SPECIFIED BY MANUFACTURER  
 4. MAT'L: ALUMINUM

TOLERANCE UNLESS NOTED				TITLE: 80/20 STRAIGHT BRACKET			
MEASURING INSTRUMENT	PLACES IN DIMENSION						
	0.0	0.00	0.000	DRAWN J. DERSCH			
CALIPERS			±0.005	DESIGNED 80/20 INC.			
PRECISION RULER		±0.015		SIZE	DWG. NO.		REV
TAPE MEASURE	±0.030			A	EML2322L-0007		A
PROTRACTOR	±10	±5	±2	SCALE: 2:1		SHEET 1 OF 1	



- NOTES:
1. DIMS IN INCHES
  2. QTY SPECIFIED IN BOM
  3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

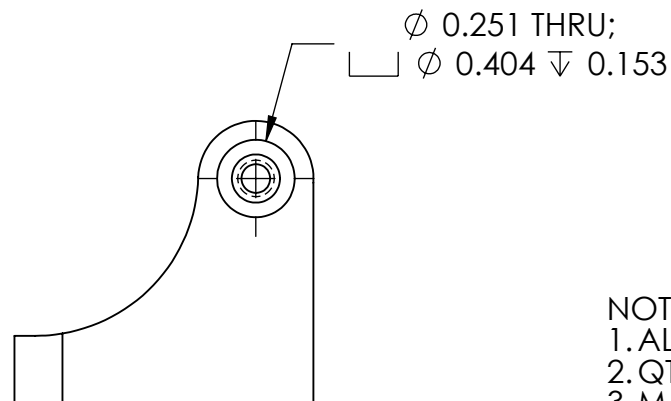
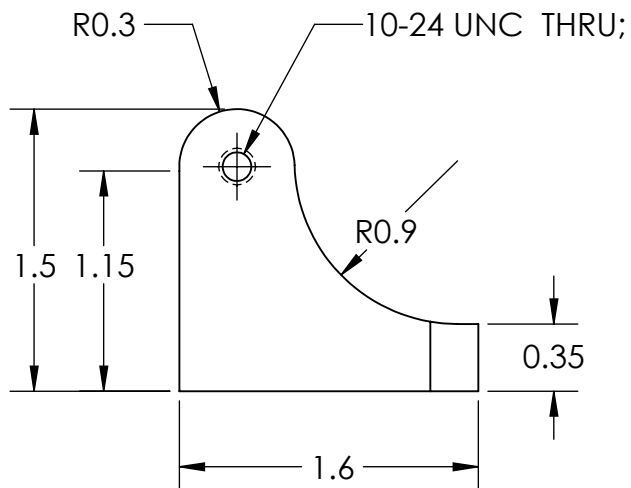
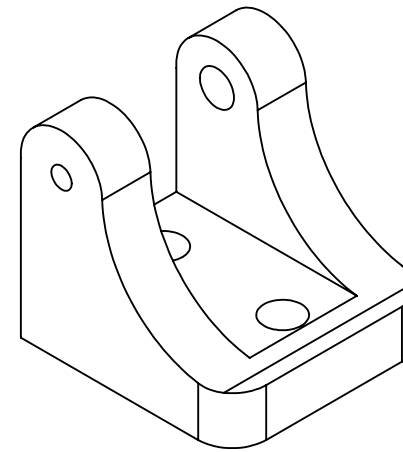
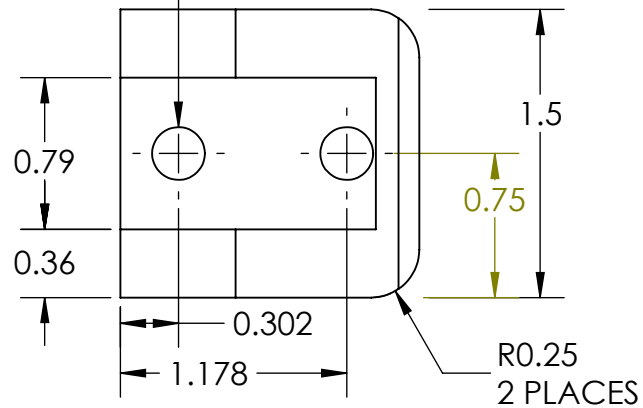
TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			80/20 LINEAR SLIDE		
	0.0	0.00	0.000	DRAWN	J. DERSCH	
CALIPERS	/	/	±0.005	DESIGNED	80/20 INC.	
PRECISION RULER	/	±0.015	/	SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030	/	/	A	EML2322L-0037	A
PROTRACTOR	±10	±5	±2	SCALE: 1:1		SHEET 1 OF 2



- NOTES:
1. DIMS IN INCHES
  2. QUANTITY: 1
  3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

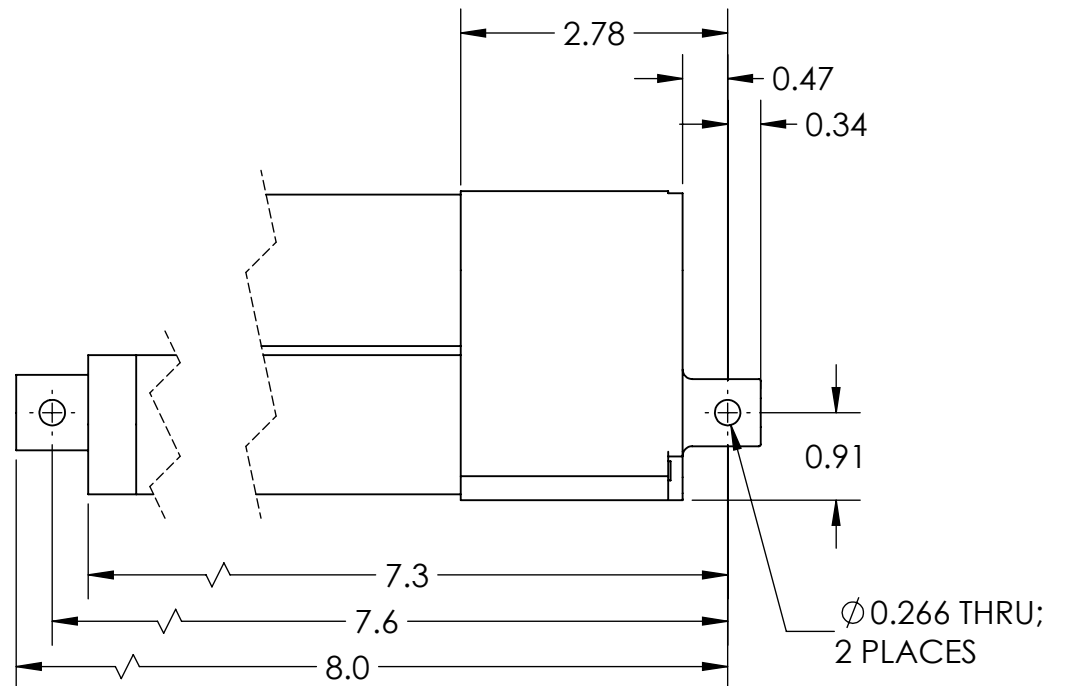
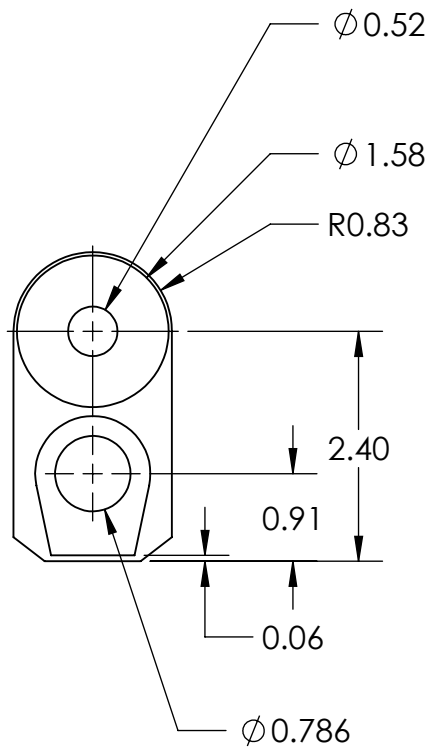
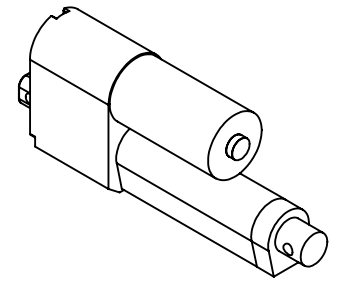
TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			80/20 LINEAR SLIDE		
	0.0	0.00	0.000	DRAWN	J. DERSCH	
CALIPERS	/	/	±0.005	DESIGNED	80/20 INC.	
PRECISION RULER	/	±0.015	/	SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030	/	/	A	EML2322L-0037	A
PROTRACTOR	±10	±5	±2	SCALE: 3:2		SHEET 2 OF 2

Ø0.275 THRU;  
2 PLACES



NOTES:  
1. ALL DIMS IN INCHES  
2. QTY SPECIFIED IN BOM  
3. MAT'L: ALUMINUM

TOLERANCE UNLESS NOTED				TITLE: 10-24 LINEAR ACTUATOR MOUNT			
OPERATION	PLACES IN DIMENSION			DRAWN T. THORNTON			
	0.0	0.00	0.000	DESIGNED CONCENTRIC INTERNATIONAL			
MACHINING	±0.050	±0.020	±0.005	SIZE DWG. NO. REV			
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		A EML2322L-0039		A	
WELDING	±0.1	±0.060					
ANGULAR DIMS	±5	±2	±0.5	SCALE: 1:1		SHEET 1 OF 1	



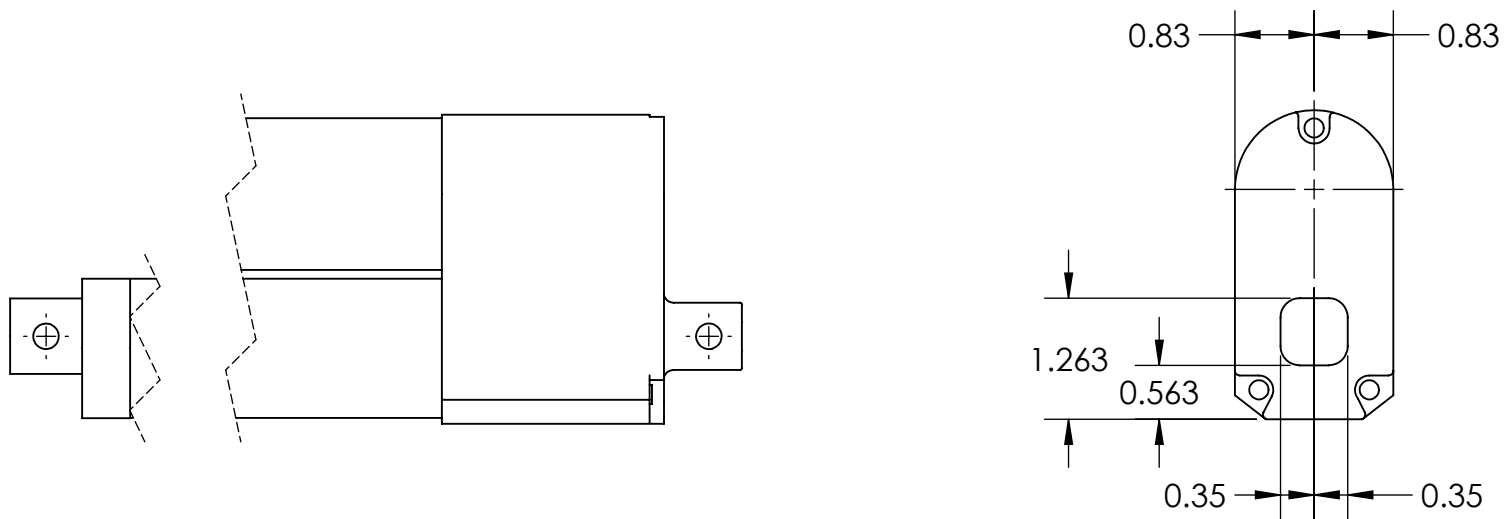
ACTUATOR EXTENDS 4"

NOTES:

1. DIMS IN INCHES
2. QTY SPECIFIED IN BOM
3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			30 IPM SPAL LINEAR ACTUATOR (2 in)		
	0.0	0.00	0.000	DRAWN	J. DERSCH	
CALIPERS			±0.005	DESIGNED	SPAL	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0040	A
PROTRACTOR	±10	±5	±2	SCALE: 1:2		SHEET 1 OF 2



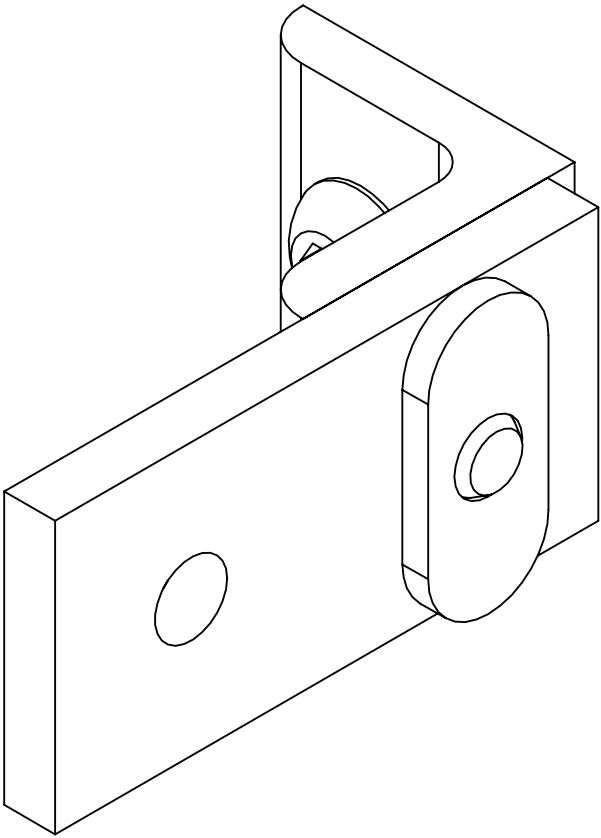


ACTUATOR EXTENDS 4"

# NOTES:

1. DIMS IN INCHES
2. QTY SPECIFIED IN BOM
3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

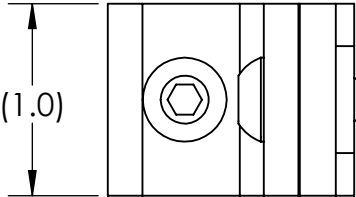
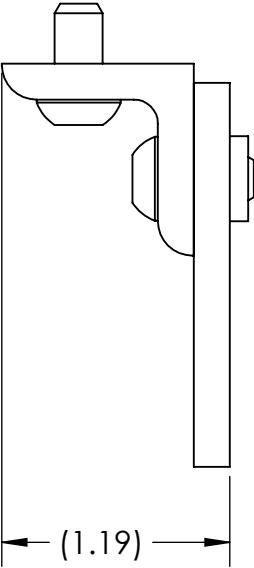
TOLERANCE UNLESS NOTED				TITLE: 30 IPM SPAL LINEAR ACTUATOR (2 in)			
MEASURING INSTRUMENT	PLACES IN DIMENSION			DRAWN J. DERSCH			
	0.0	0.00	0.000	DESIGNED SPAL			
CALIPERS			±0.005	SIZE	DWG. NO.		REV
PRECISION RULER		±0.015		A	EML2322L-0040		A
TAPE MEASURE	±0.030			SCALE: 1:2		SHEET 2 OF 2	
PROTRACTOR	±10	±5	±2				



NOTES:  
1. QTY: 2  
2. DIMS IN INCHES

TITLE:			CLAW MOUNT		
DRAWN		ALLEN ZHOU			
DESIGNED		ALLEN ZHOU			
SIZE	DWG. NO.			REV	
A	EML2322L-A-007			A	
SCALE: 1:1				SHEET 13 OF 18	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

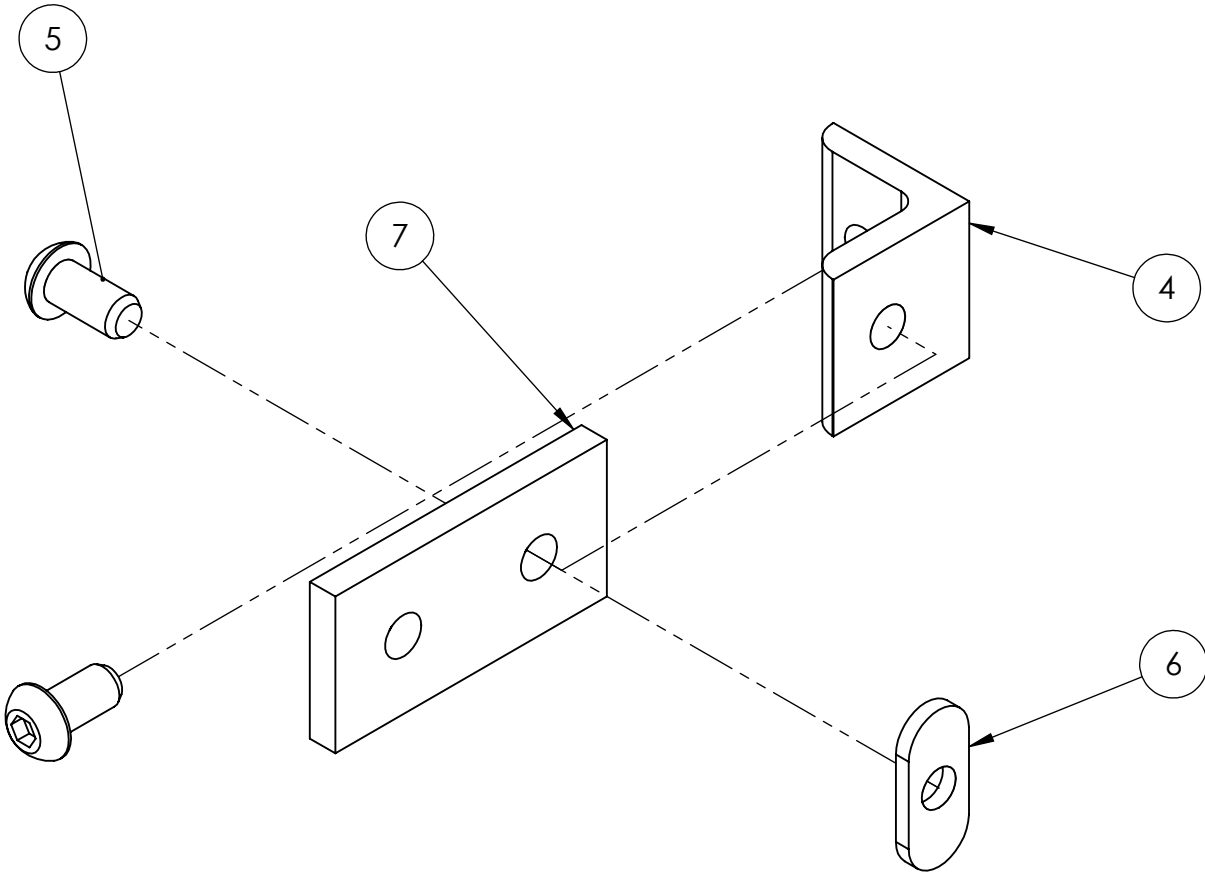


NOTES:  
1. QTY: 2  
2. DIMS IN INCHES

TITLE:			CLAW MOUNT		
DRAWN		ALLEN ZHOU			
DESIGNED		ALLEN ZHOU			
SIZE	DWG. NO.			REV	
A	EML2322L-A-007			A	
SCALE: 1:1				SHEET 14 OF 18	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

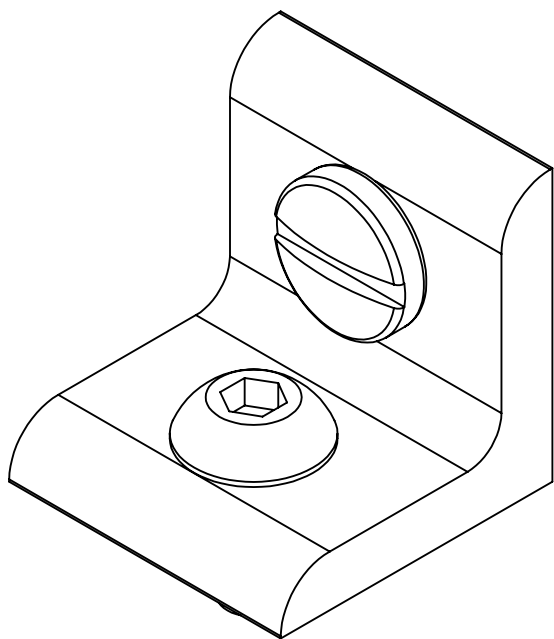
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	1
7	EML2322L-0007	80/20 STRAIGHT BRACKET	1



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 2

TITLE:			
CLAW MOUNT			
DRAWN		ALLEN ZHOU	
DESIGNED		ALLEN ZHOU	
SIZE	DWG. NO.	REV	
A	EML2322L-A-007	A	
SCALE: 1:4		SHEET 15 OF 18	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 2

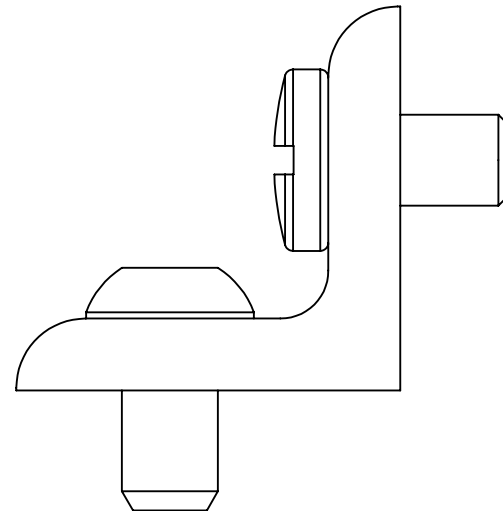
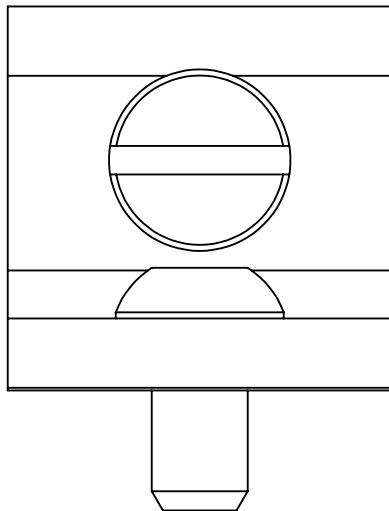
TITLE:  
GLOBE MOTOR BRACKET ASSEMBLY

DRAWN ALLEN ZHOU

DESIGNED ALLEN ZHOU

DIMENSION TYPE	PLACES IN DIMENSION			SIZE	DWG. NO.	REV
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005	A	EML2322L-A-008	A
ANGULAR	±5	±2	±0.5			

SCALE: 1:2 SHEET 16 OF 18



NOTES:  
1. QTY: 2  
2. DIMS IN INCHES

TITLE:  
GLOBE MOTOR BRACKET ASSEMBLY

DRAWN ALLEN ZHOU

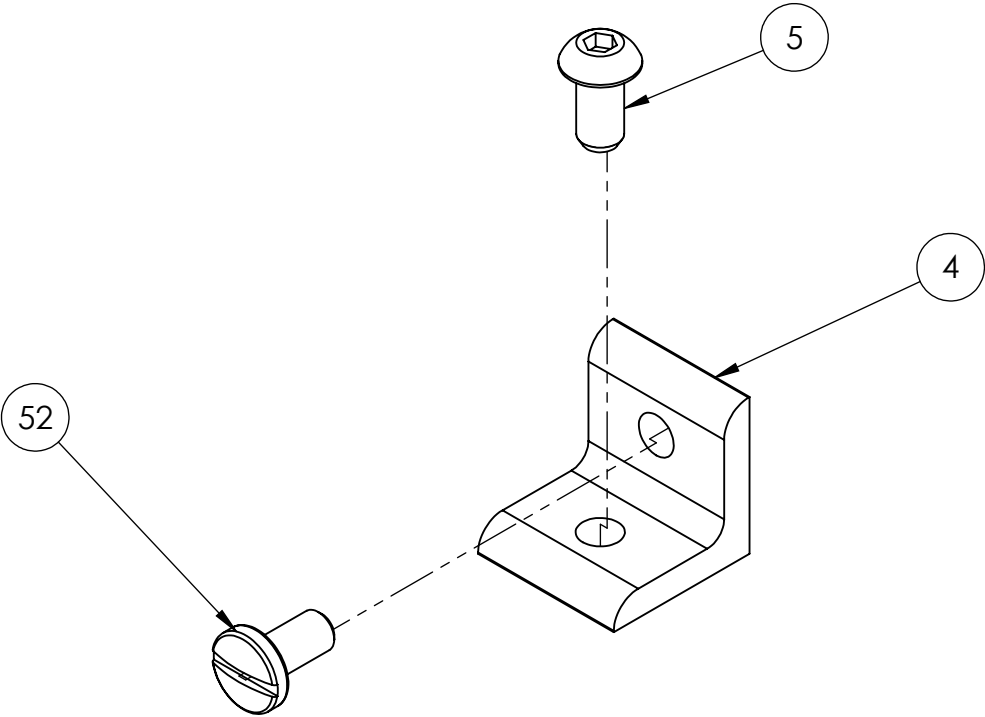
DESIGNED ALLEN ZHOU

TOLERANCE UNLESS NOTED				SIZE	DWG. NO.	REV
DIMENSION TYPE	PLACES IN DIMENSION			A	EML2322L-A-008	A
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5			

SCALE: 2:1

SHEET 17 OF 18

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	1
26	EML2322L-0026	M6 x 1 - 12 mm PAN HEAD SCREW FOR GM	1



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 2

TITLE:  
 GLOBE MOTOR BRACKET ASSEMBLY

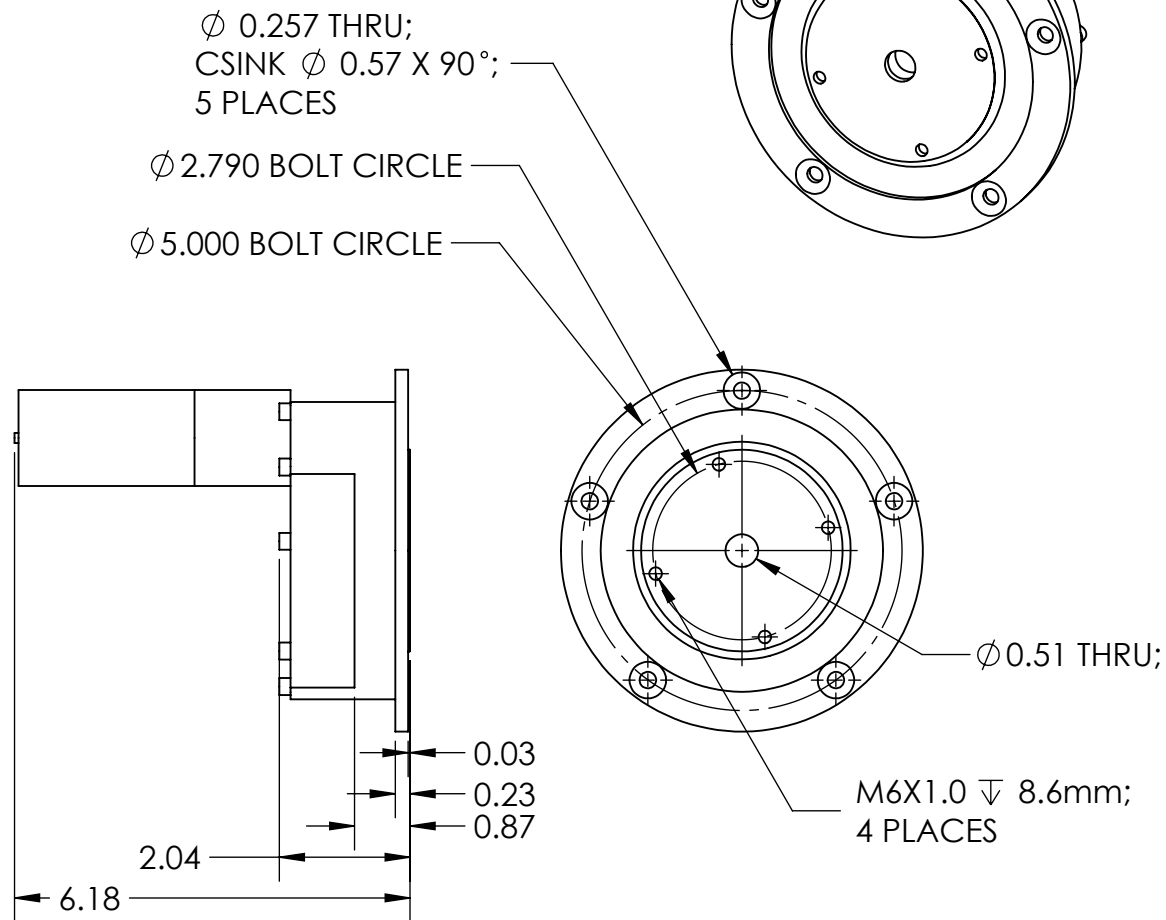
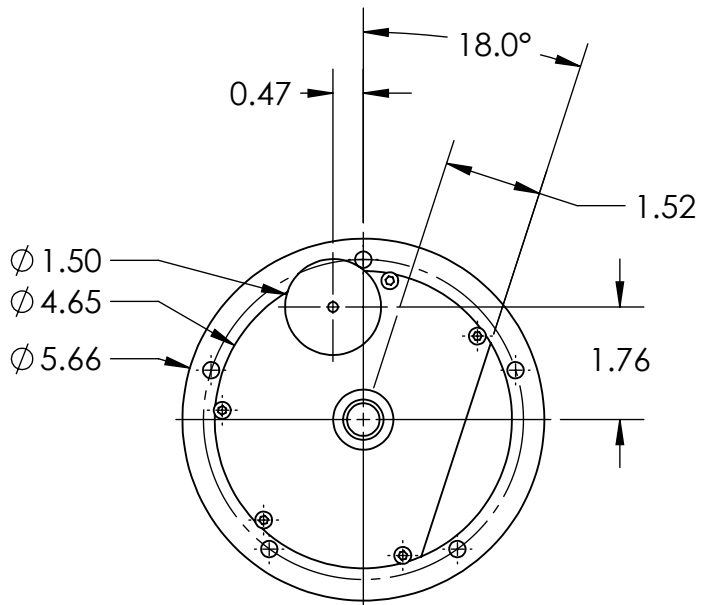
DRAWN ALLEN ZHOU

DESIGNED ALLEN ZHOU

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-008	A

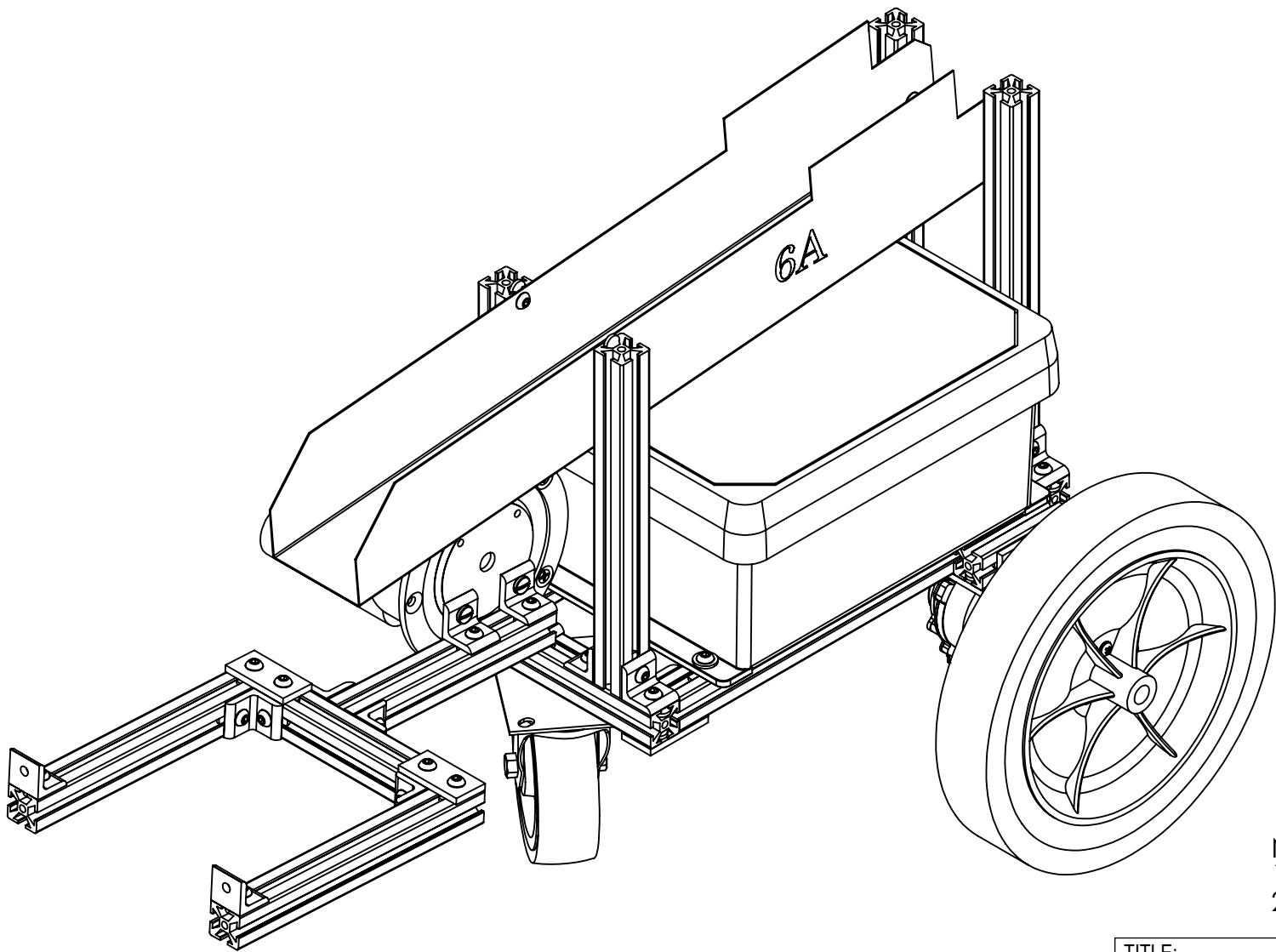
SCALE: 1:2 SHEET 18 OF 18



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY SPECIFIED IN BOM  
 3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE: 4.5 RPM GLOBE GEAR MOTOR			
MEASURING INSTRUMENT	PLACES IN DIMENSION			DRAWN J. DERSCH			
	0.0	0.00	0.000	DESIGNED GLOBE			
CALIPERS			±0.005	SIZE	DWG. NO.		REV
PRECISION RULER		±0.015		A	EML2322L-A-012		D
TAPE MEASURE	±0.030						
PROTRACTOR	±10	±5	±2	SCALE: 1:3		SHEET 1 OF 1	

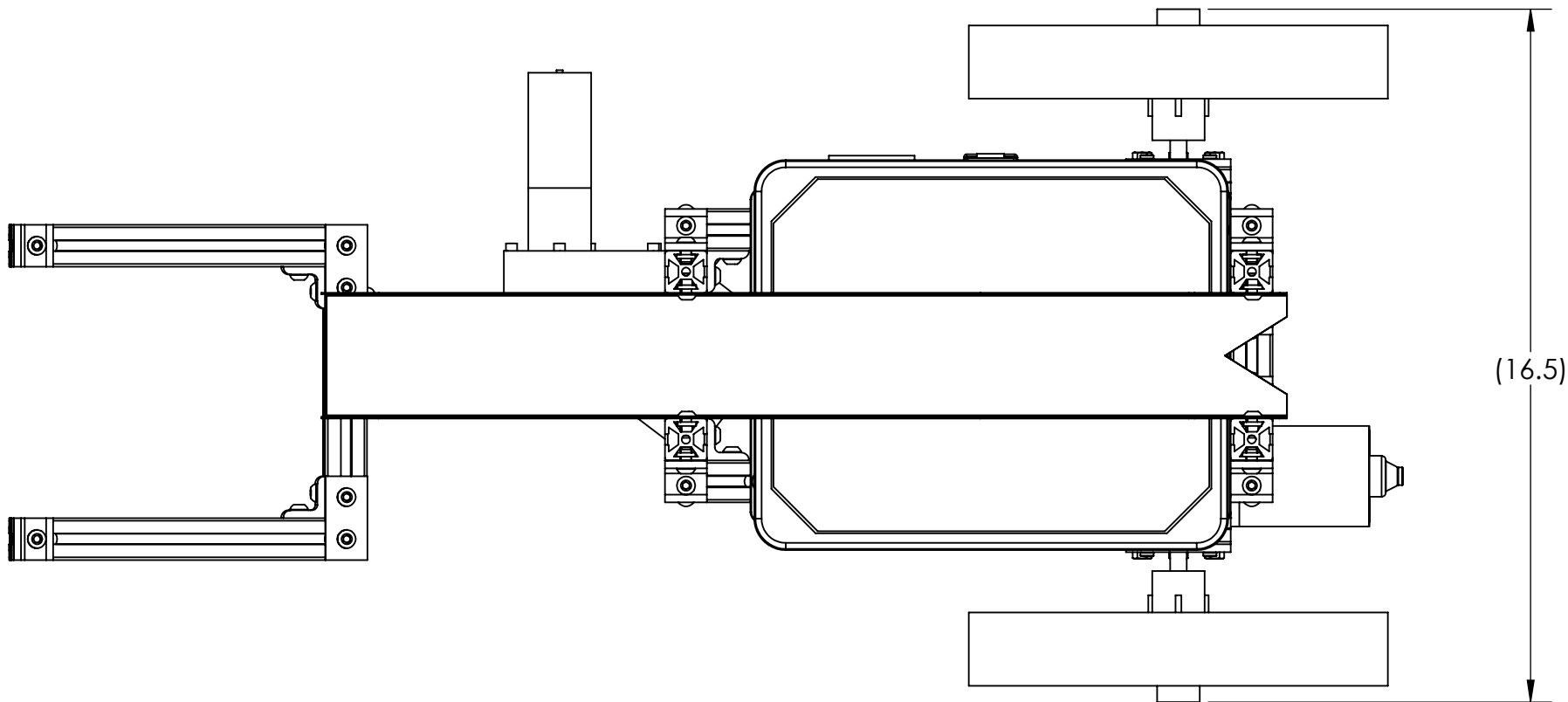




NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: PLATFORM WITH BOX/HOPPER/BUCKET			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-016		E
SCALE: 1:4		SHEET 1 OF 5	

DIMENSION TYPE	TOLERANCE UNLESS NOTED PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 PLATFORM WITH BOX/HOPPER/BUCKET

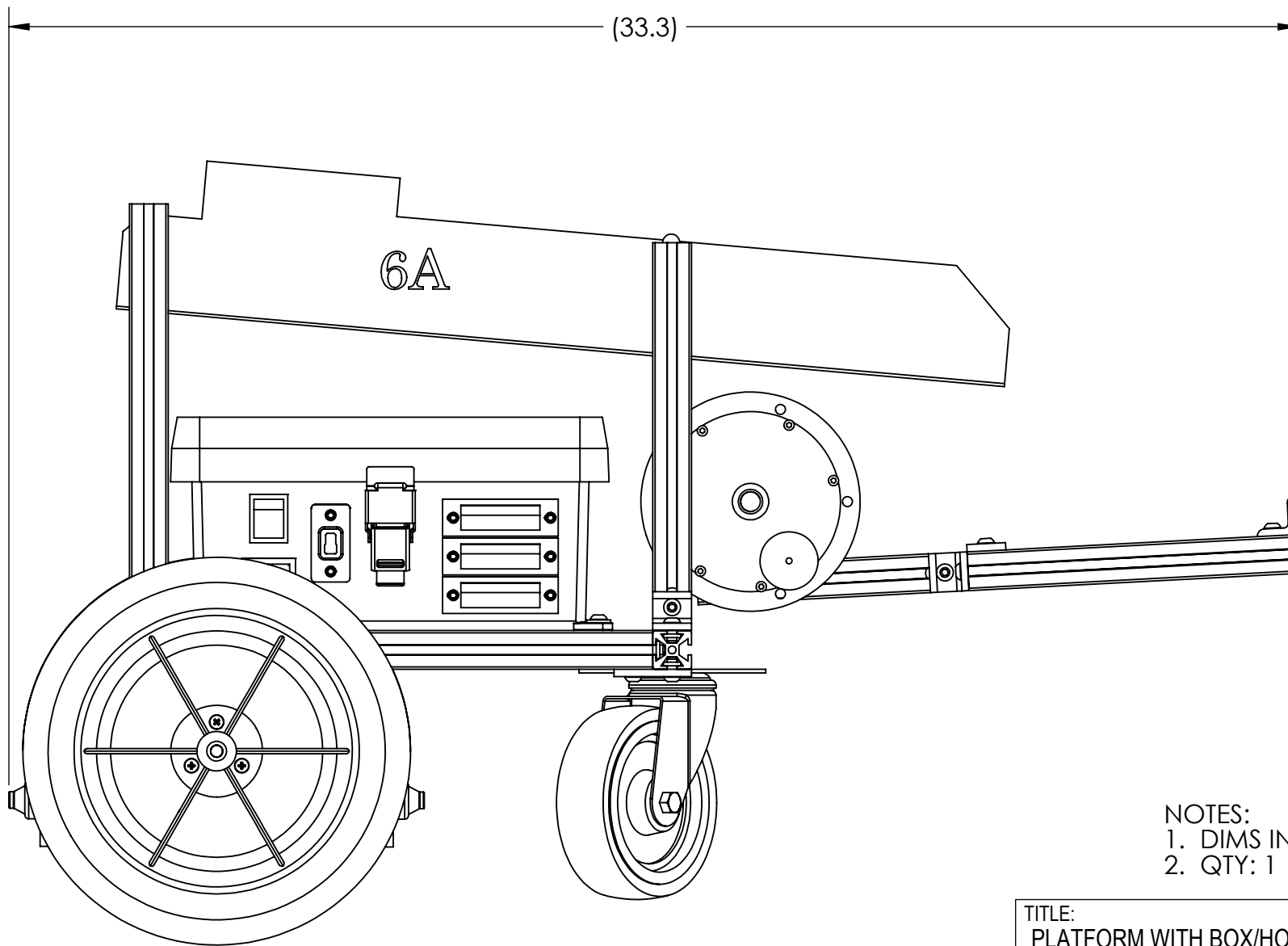
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	$\pm 0.050$	$\pm 0.020$	$\pm 0.005$
ANGULAR	$\pm 5$	$\pm 2$	$\pm 0.5$

SIZE	DWG. NO.	REV
A	EML2322L-A-016	E

SCALE: 1:4	SHEET 2 OF 5
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- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 PLATFORM WITH BOX/HOPPER/BUCKET

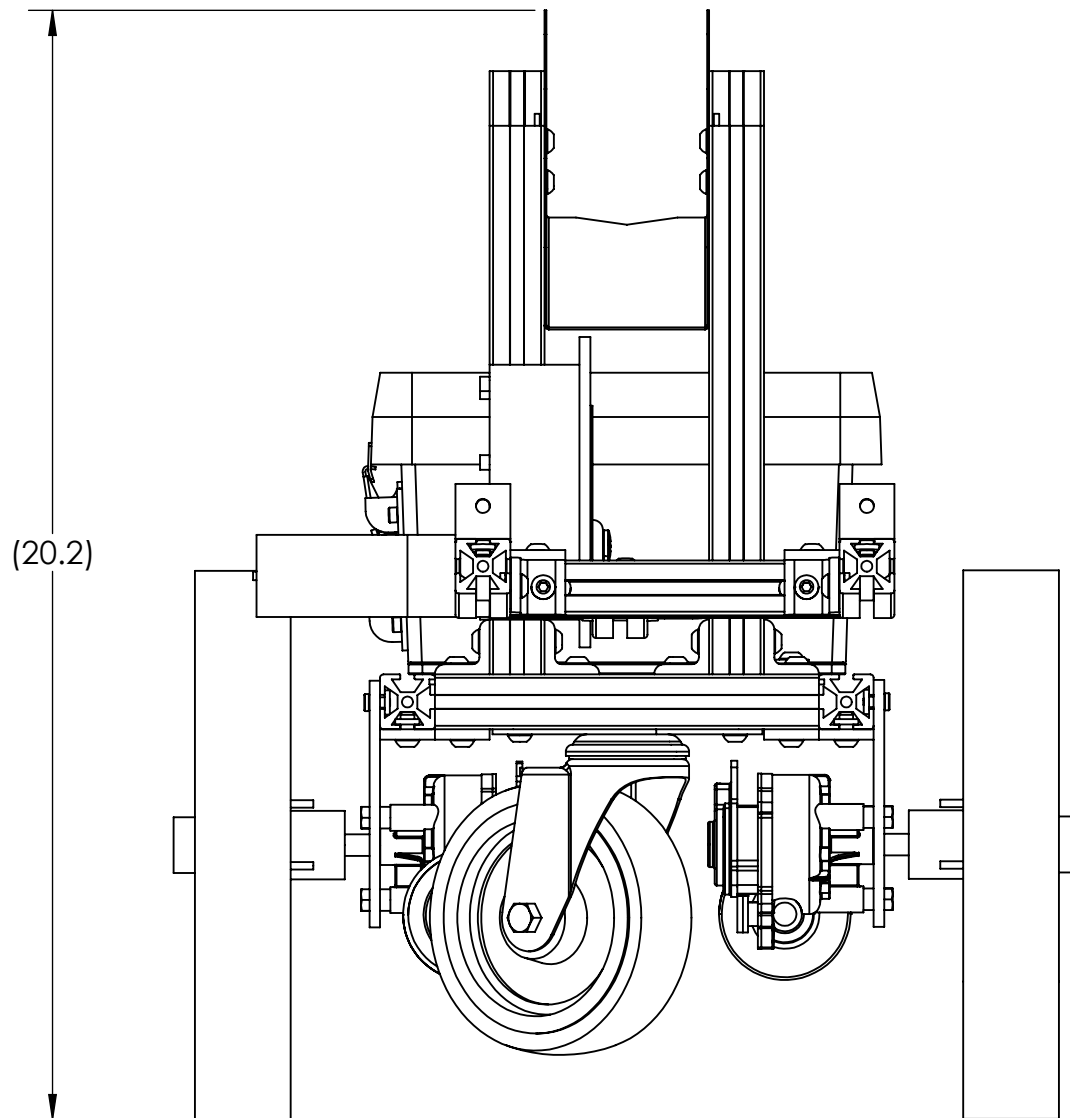
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-016	E

SCALE: 1:4	SHEET 3 OF 5
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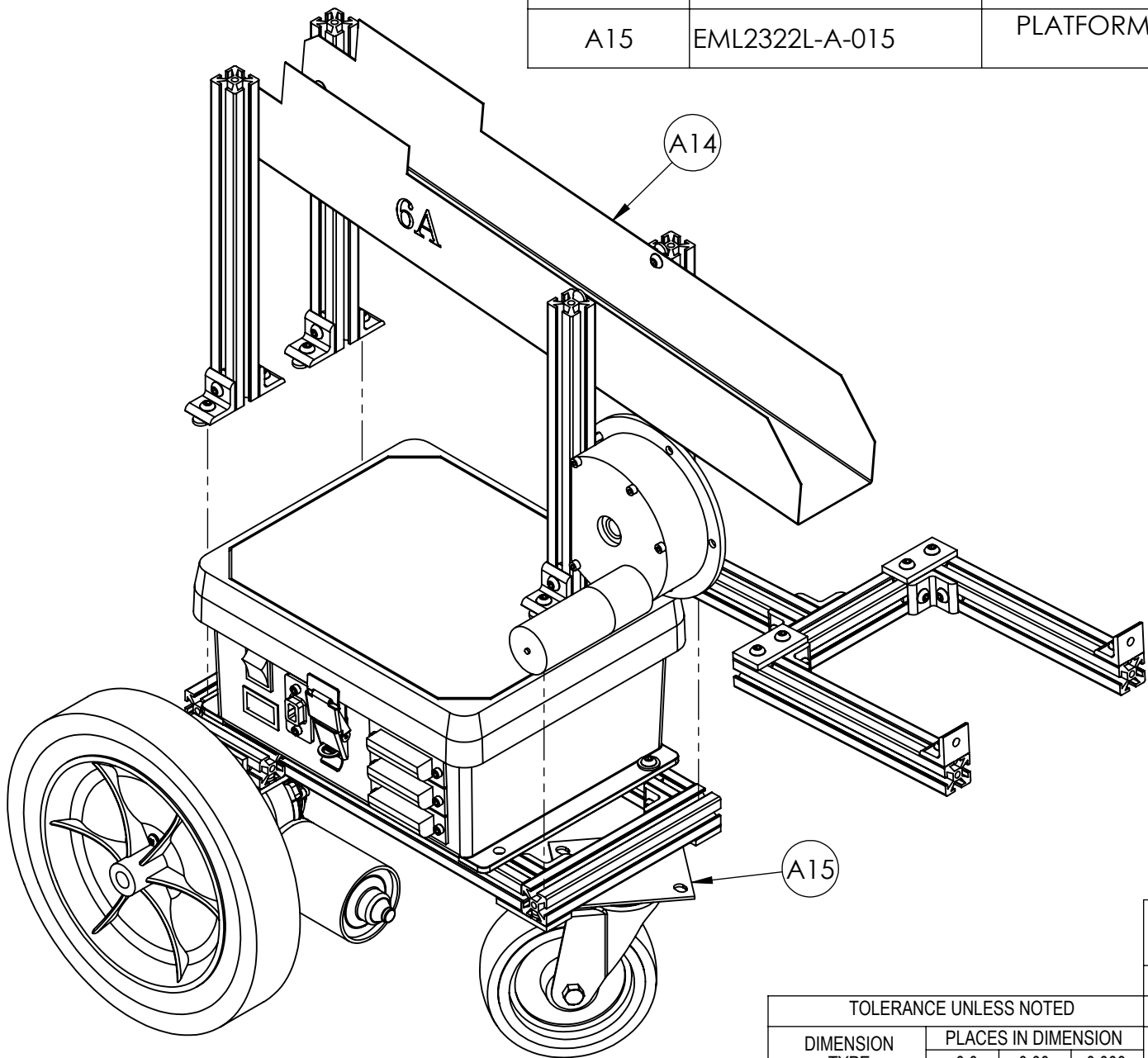


NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: PLATFORM WITH BOX/HOPPER/BUCKET			
DRAWN      NAN LIN			
DESIGNED      NAN LIN			
SIZE	DWG. NO.		REV
A	EML2322L-A-016		E
SCALE: 2:7		SHEET 4 OF 5	

DIMENSION TYPE	TOLERANCE UNLESS NOTED PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

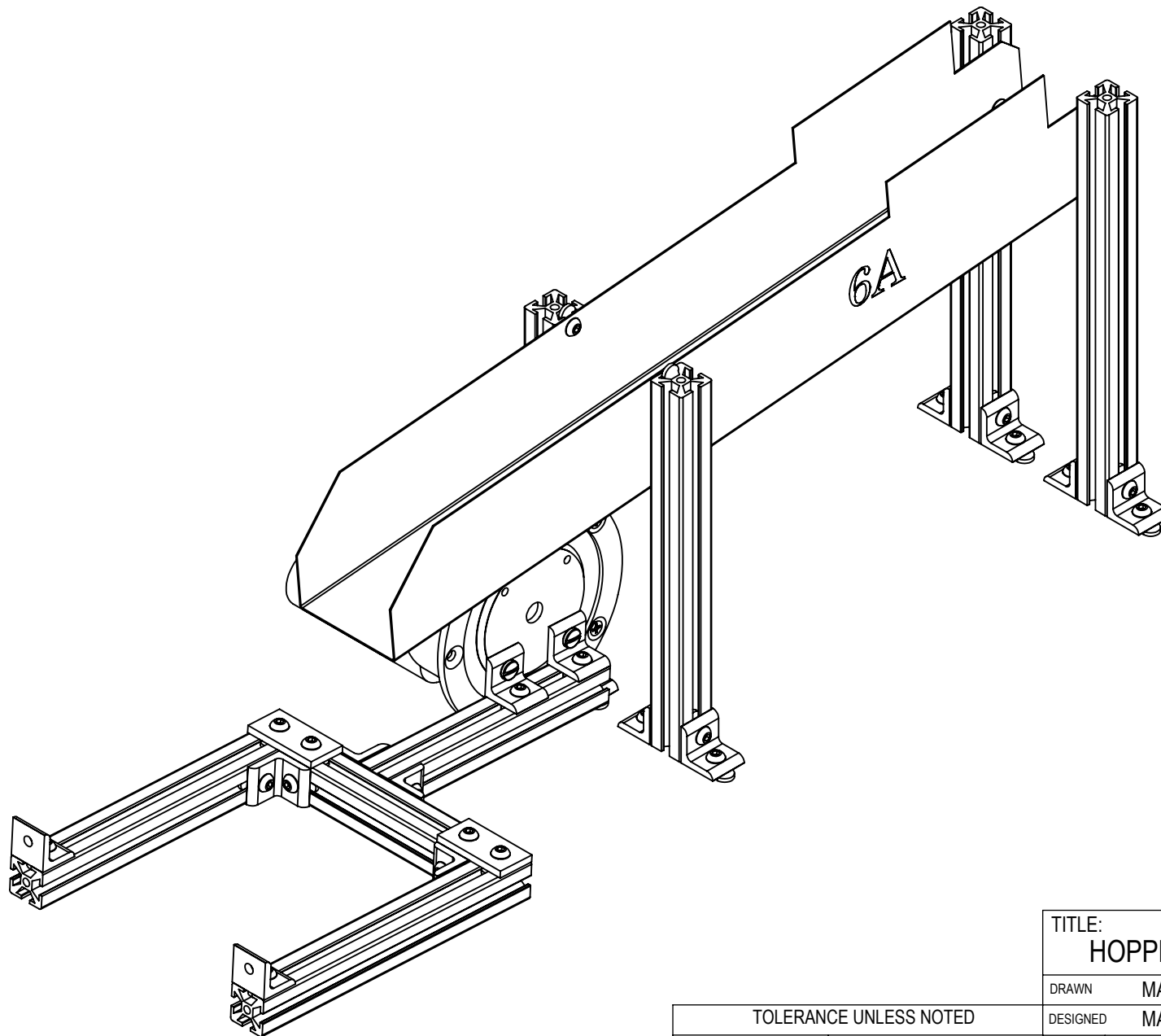
ITEM NO.	PART NUMBER	DESCRIPTION	STRETCH/ QTY.
A14	EML2322L-A-014	HOPPER/BUCKET ASSEMBLY	1
A15	EML2322L-A-015	PLATFORM WITH CONTROL BOX ASSEMBLY	1



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: PLATFORM WITH BOX/HOPPER/BUCKET			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-016		E
SCALE: 2:9		SHEET 5 OF 5	

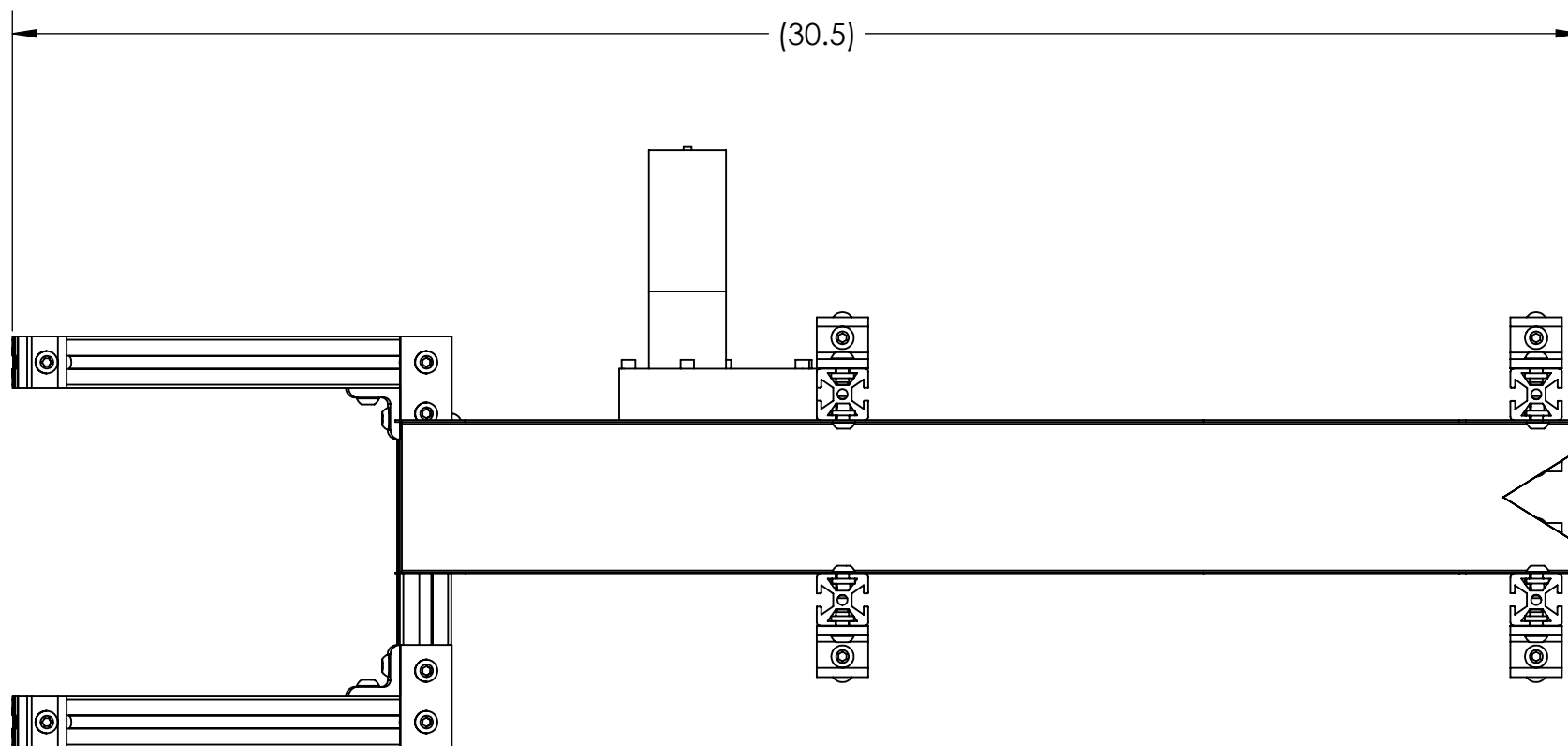
DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: HOPPER/BUCKET ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-014		E
SCALE: 2:7		SHEET 1 OF 4	

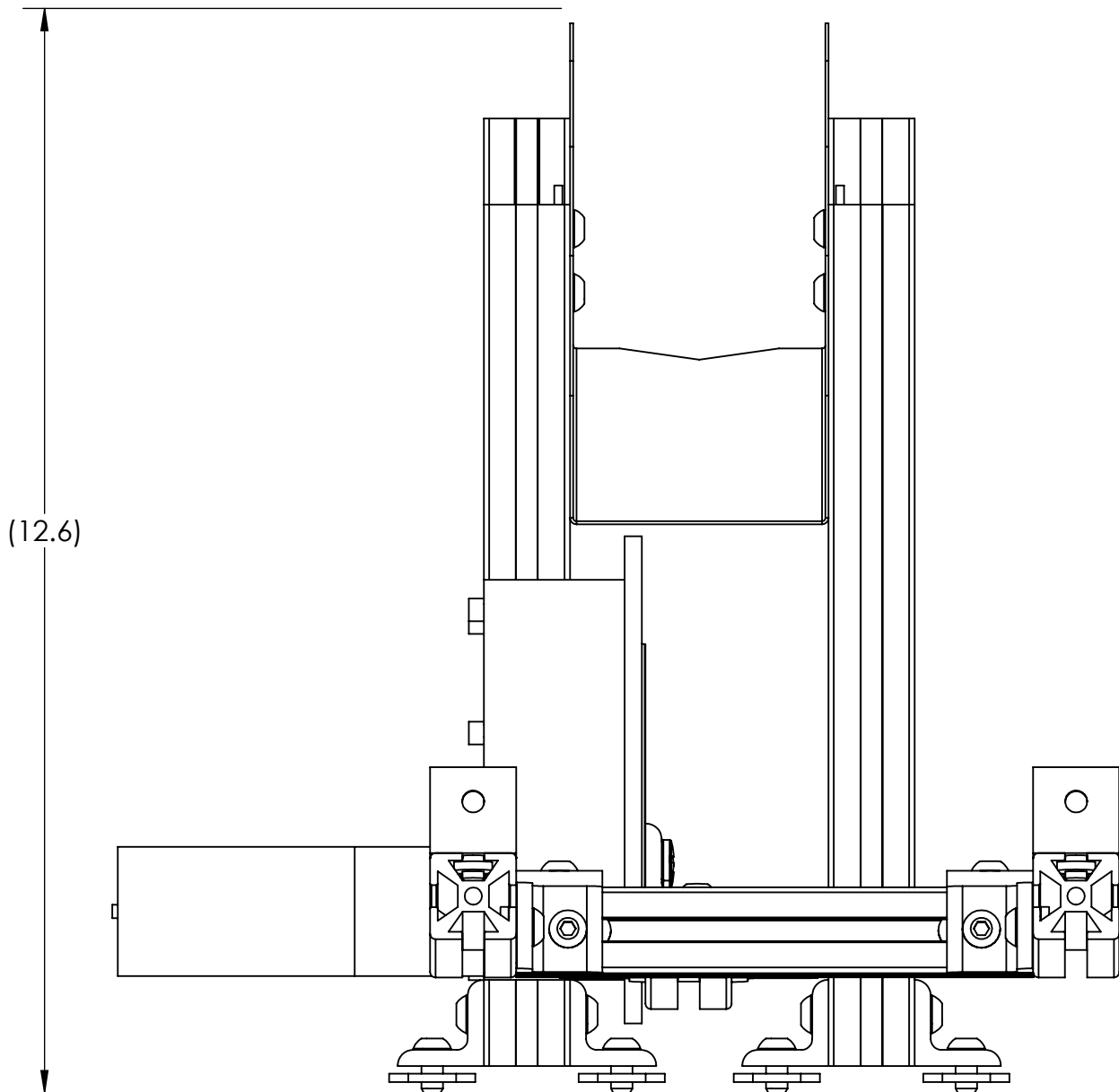
DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: HOPPER/BUCKET ASSEMBLY			
DRAWN MARK YEN			
DESIGNED MARK YEN			
SIZE A	DWG. NO. EML2322L-A-014		REV E
SCALE: 2:7		SHEET 2 OF 4	

DIMENSION TYPE	TOLERANCE UNLESS NOTED PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



(12.6)

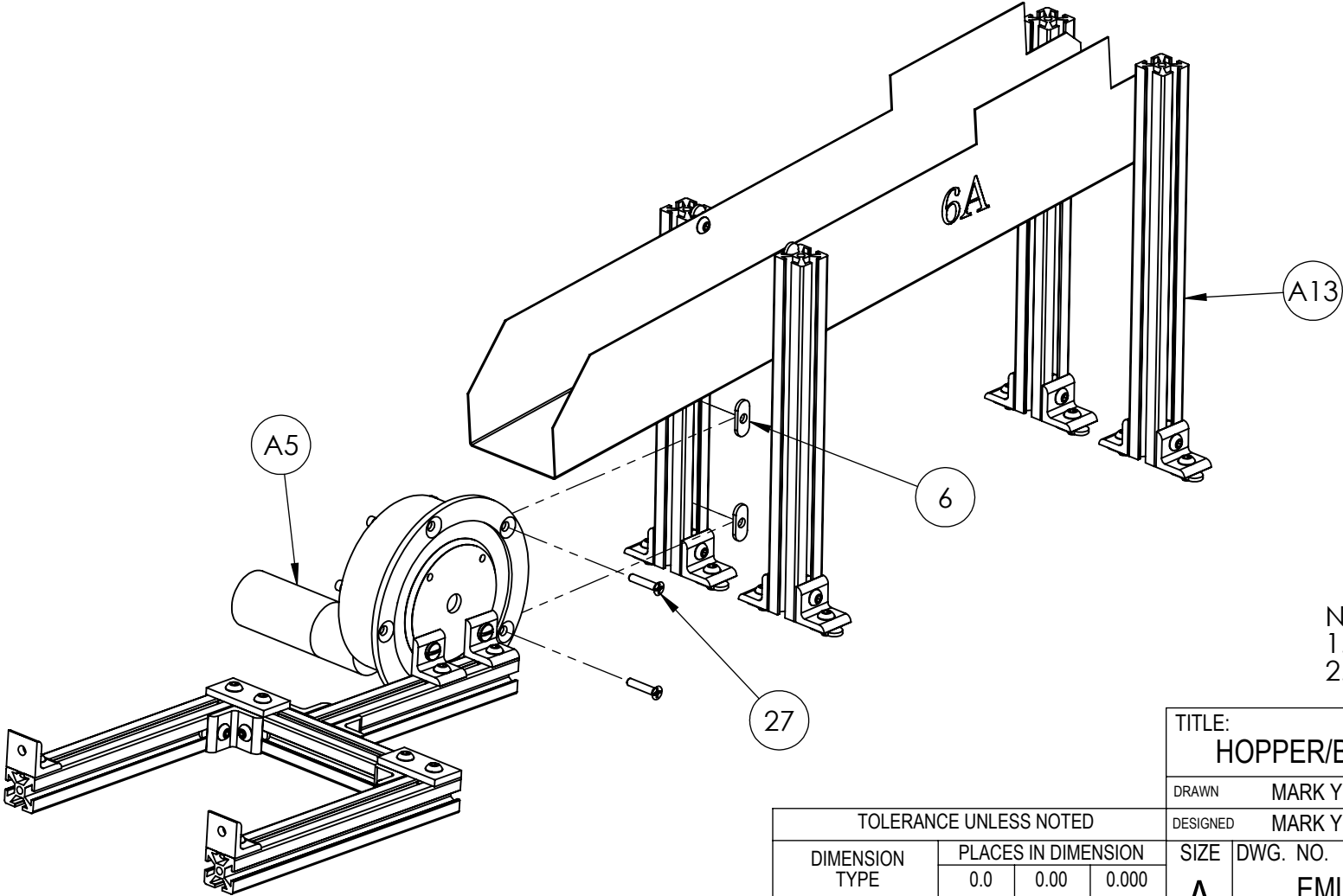
NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: HOPPER/BUCKET ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-014		E
SCALE: 1:2		SHEET 3 OF 4	

DIMENSION TYPE	TOLERANCE UNLESS NOTED PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



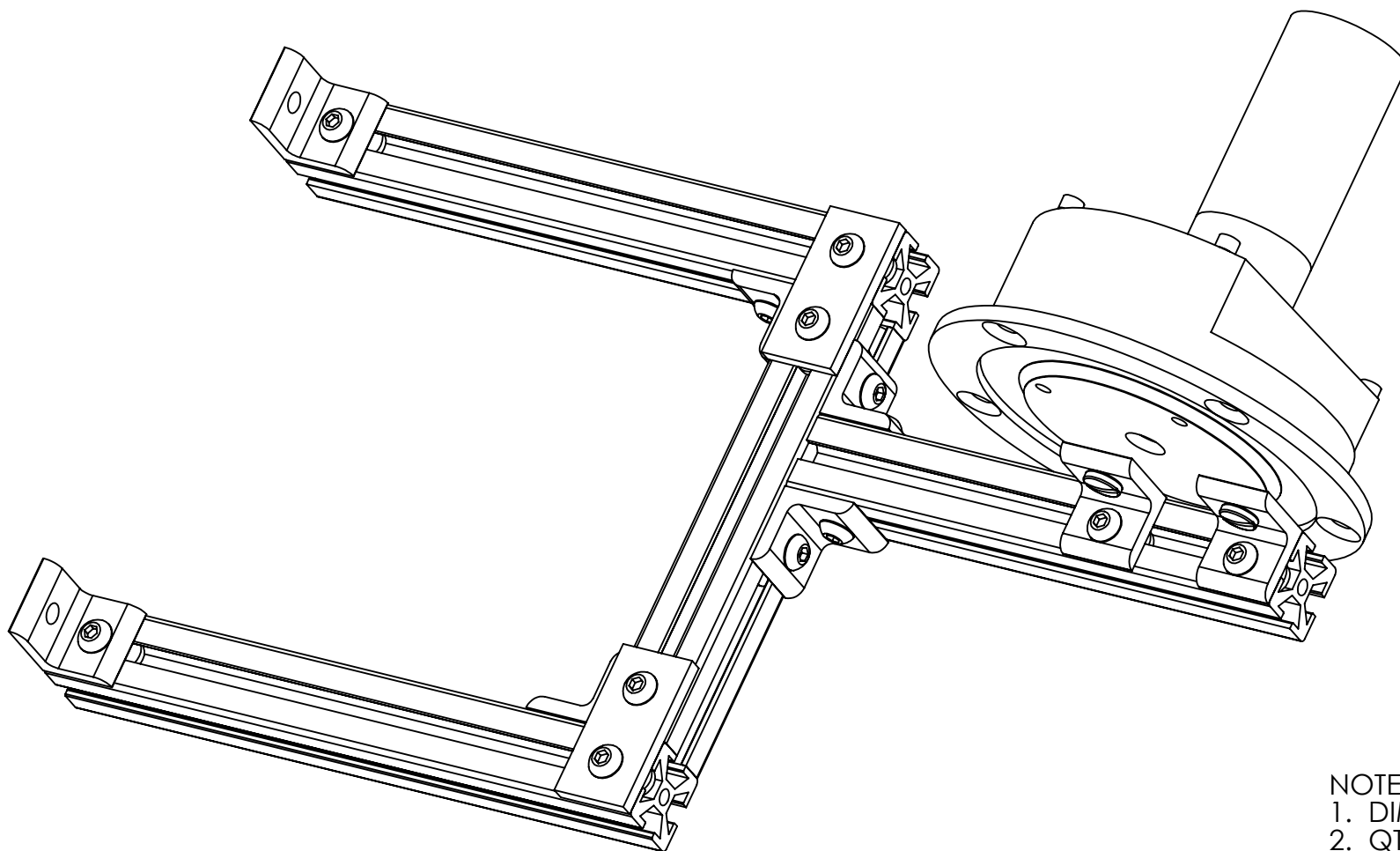
ITEM NO.	PART NUMBER	DESCRIPTION	BUCKET STRETCH/ QTY.
6	EML2322L-0006	1/4-20 T-NUT	2
27	EML2322L-0027	1/4-20 x 1.0 in FLAT HEAD SCREW	2
A5	EML2322L-A-005	BUCKET MANIPULATOR TOTAL ASSEMBLY	1
A13	EML2322L-A-013	HOPPER ASSEMBLY	1



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: HOPPER/BUCKET ASSEMBLY				
DRAWN		MARK YEN		
DESIGNED		MARK YEN		
SIZE	DWG. NO.	REV		
A	EML2322L-A-014	E		
SCALE: 4:17		SHEET 4 OF 4		

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 BUCKET MANIPULATOR TOTAL ASSEMBLY

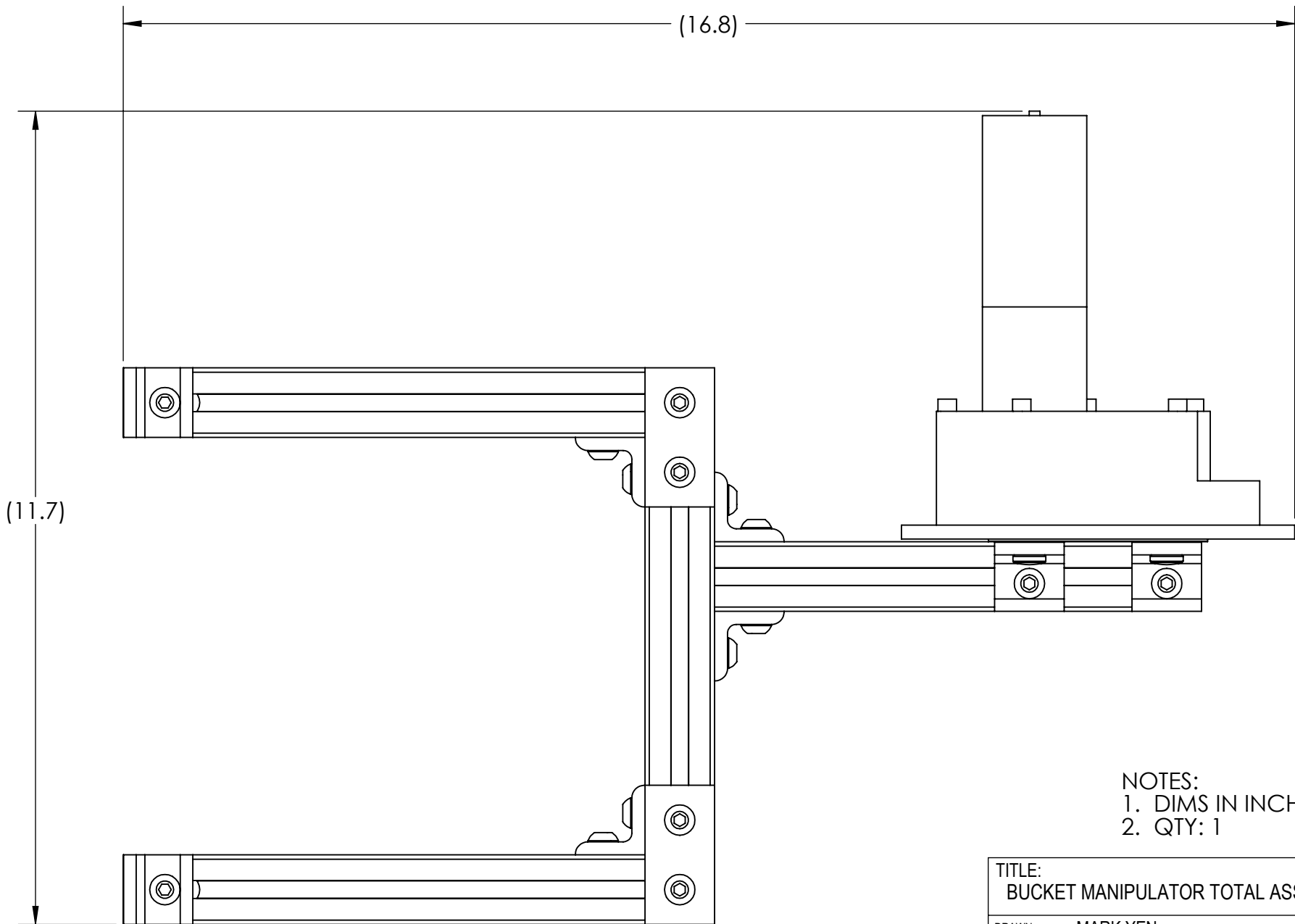
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	$\pm 0.050$	$\pm 0.020$	$\pm 0.005$
ANGULAR	$\pm 5$	$\pm 2$	$\pm 0.5$

SIZE	DWG. NO.	REV
A	EML2322L-A-005	D

SCALE: 1:2	SHEET 1 OF 4
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NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
BUCKET MANIPULATOR TOTAL ASSEMBLY

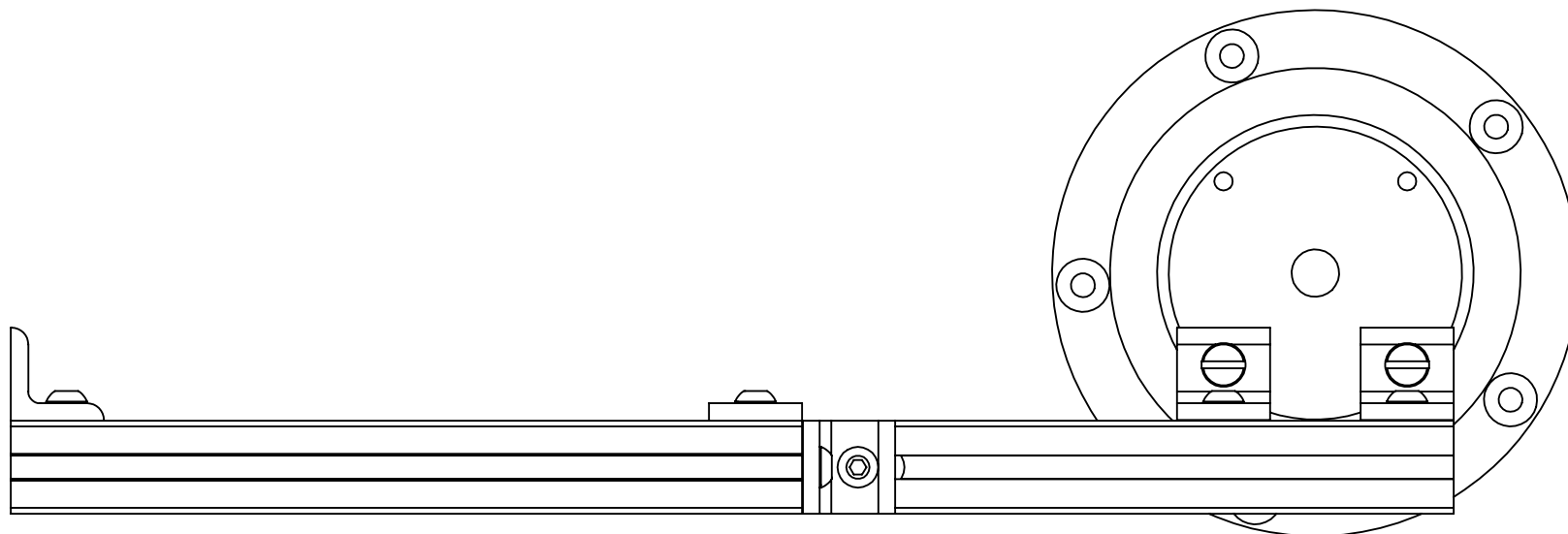
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED				DESIGNED MARK YEN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-005	REV  D
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5	SCALE: 1:2		SHEET 2 OF 4

SCALE: 1:2

SHEET 2 OF 4



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
BUCKET MANIPULATOR TOTAL ASSEMBLY

DRAWN MARK YEN

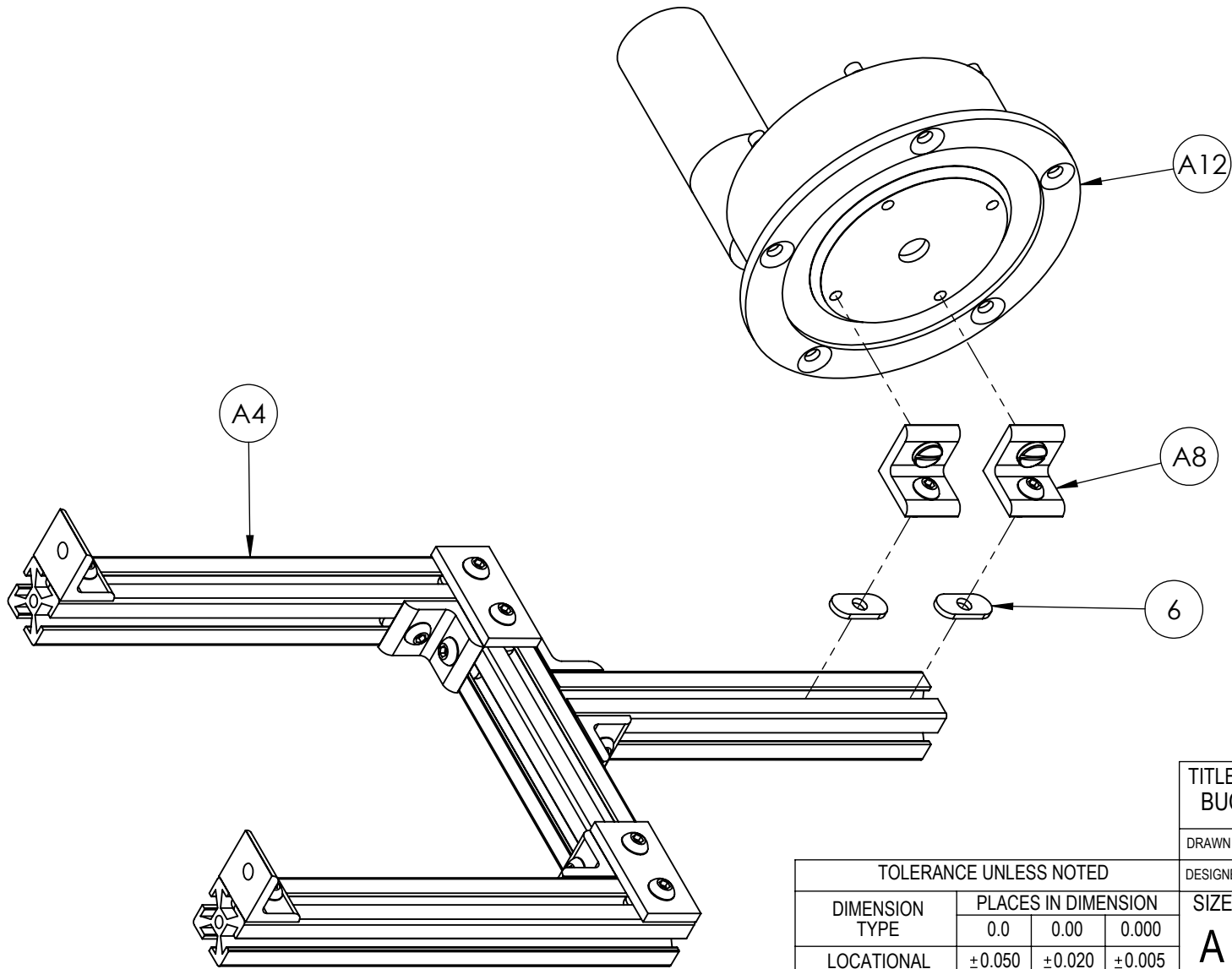
DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-005	D

SCALE: 1:2	SHEET 3 OF 4
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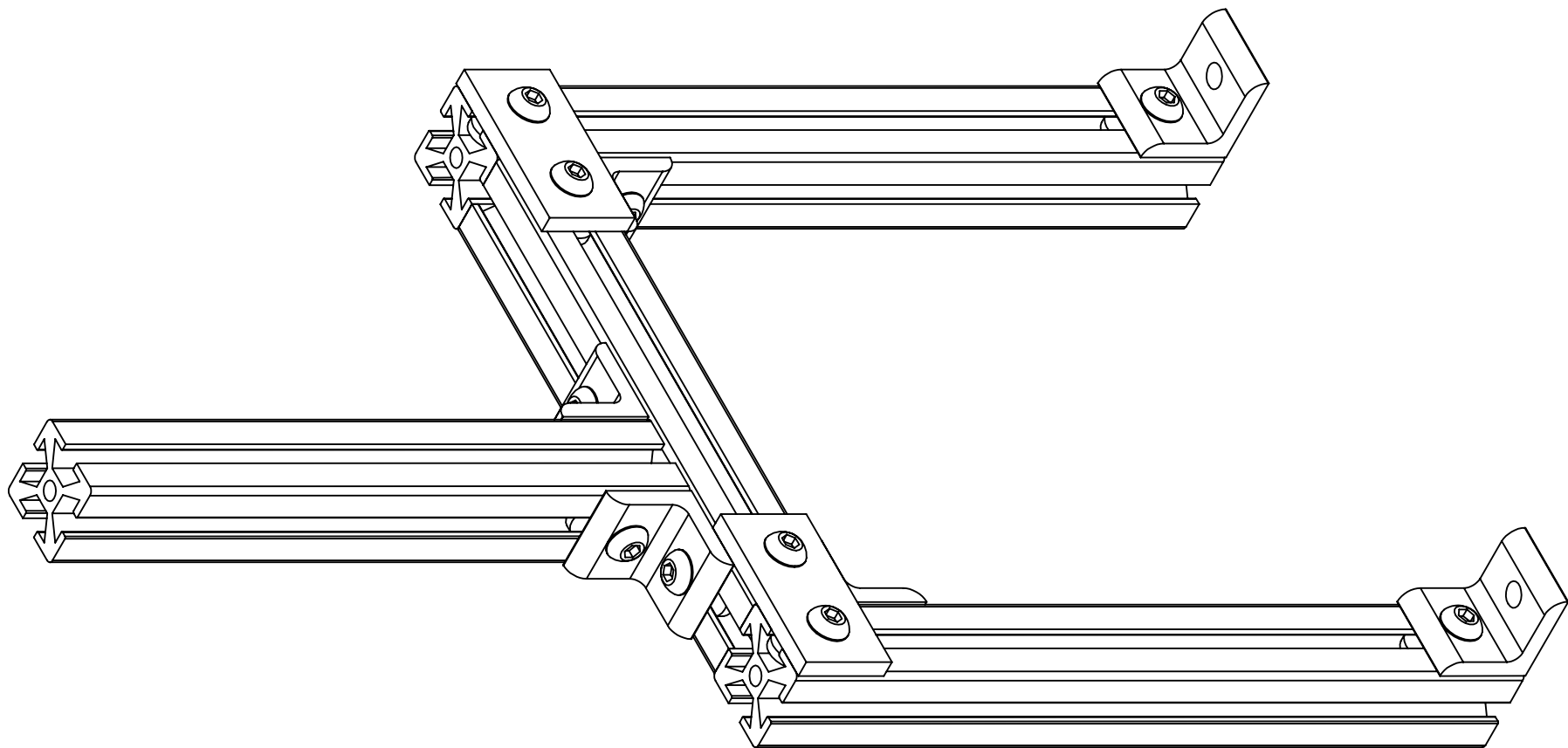
ITEM NO.	PART NUMBER	DESCRIPTION	STRETCH/ QTY.
6	EML2322L-0006	1/4-20 T-NUT	2
A4	EML2322L-A-004	BUCKET MANIPULATOR ASSEMBLY	1
A8	EML2322L-A-008	GLOBE MOTOR BRACKET ASSEMBLY	2
A12	EML2322L-A-012	4.5 RPM GLOBE MOTOR ASSEMBLY	1



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

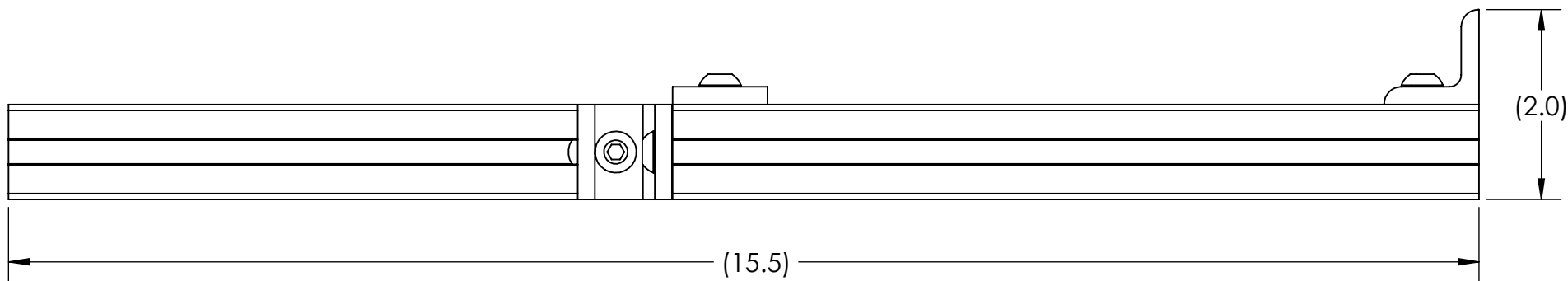
TITLE: BUCKET MANIPULATOR TOTAL ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-005		D
SCALE: 2:5		SHEET 4 OF 4	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: BUCKET MANIPULATOR ASSEMBLY				
DRAWN		NAN LIN		
DESIGNED		NAN LIN		
SIZE	DWG. NO.			REV
A	EML2322L-A-004			D
SCALE: 5:8				SHEET 1 OF 4



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 BUCKET MANIPULATOR ASSEMBLY

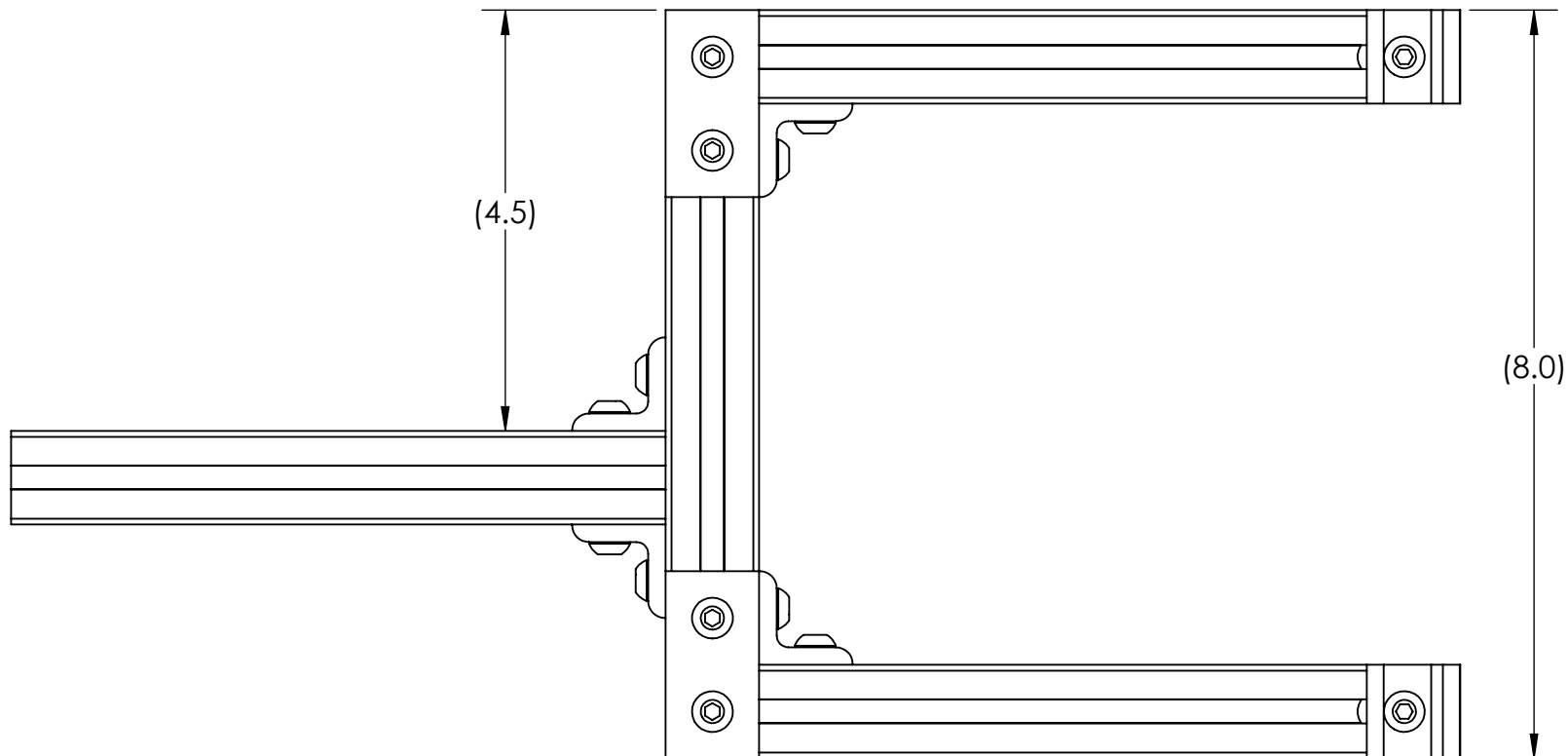
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				SIZE	DWG. NO.	REV
DIMENSION TYPE	PLACES IN DIMENSION			A	EML2322L-A-004	D
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5			

SCALE: 3:5

SHEET 2 OF 4



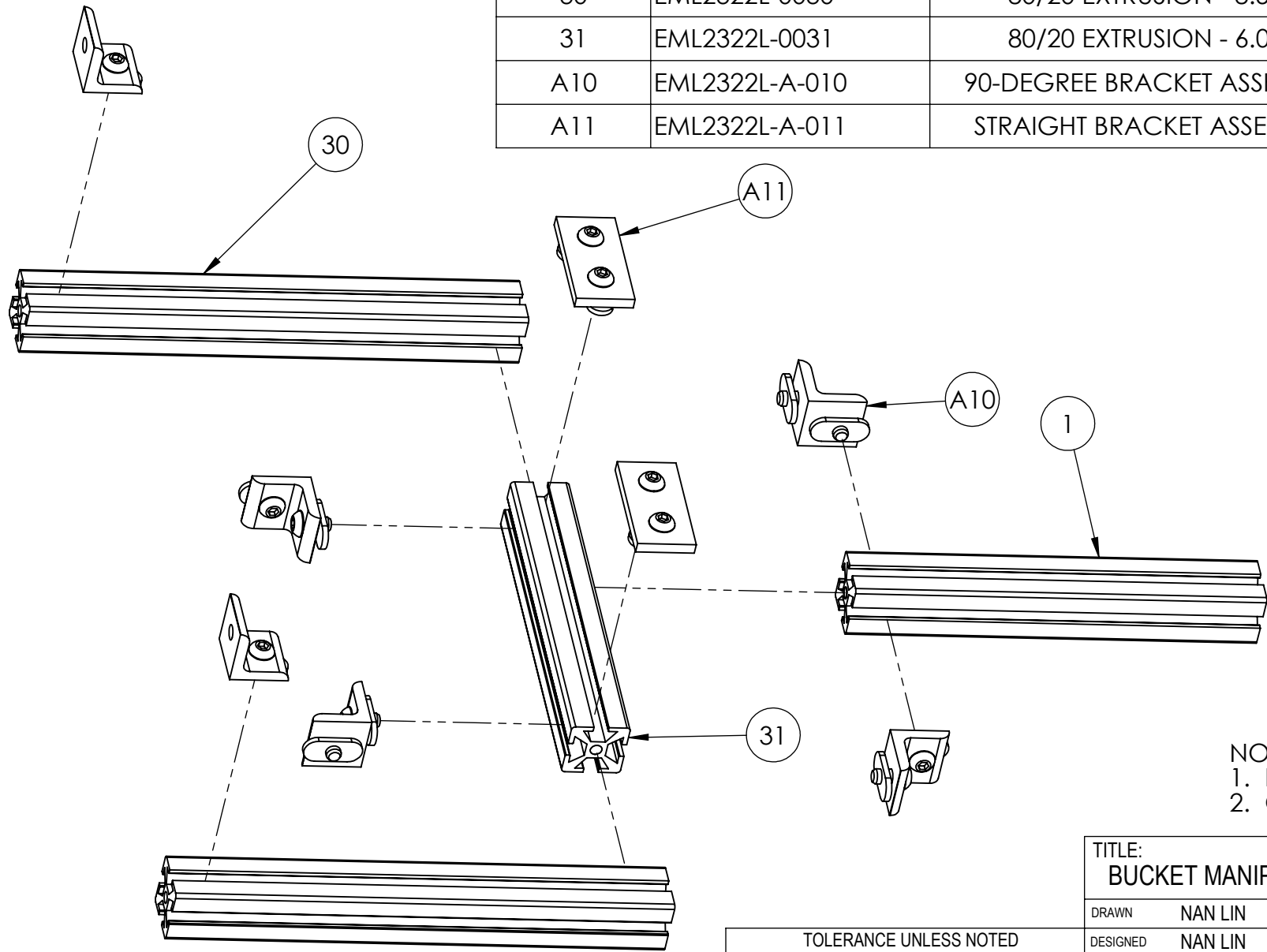
- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: BUCKET MANIPULATOR ASSEMBLY			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-004		D
SCALE: 1:2		SHEET 3 OF 4	

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EML2322L-0001	80/20 EXTRUSION - 7.0 in	1
30	EML2322L-0030	80/20 EXTRUSION - 8.5 in	2
31	EML2322L-0031	80/20 EXTRUSION - 6.0 in	1
A10	EML2322L-A-010	90-DEGREE BRACKET ASSEMBLY	6
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	2



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 BUCKET MANIPULATOR ASSEMBLY

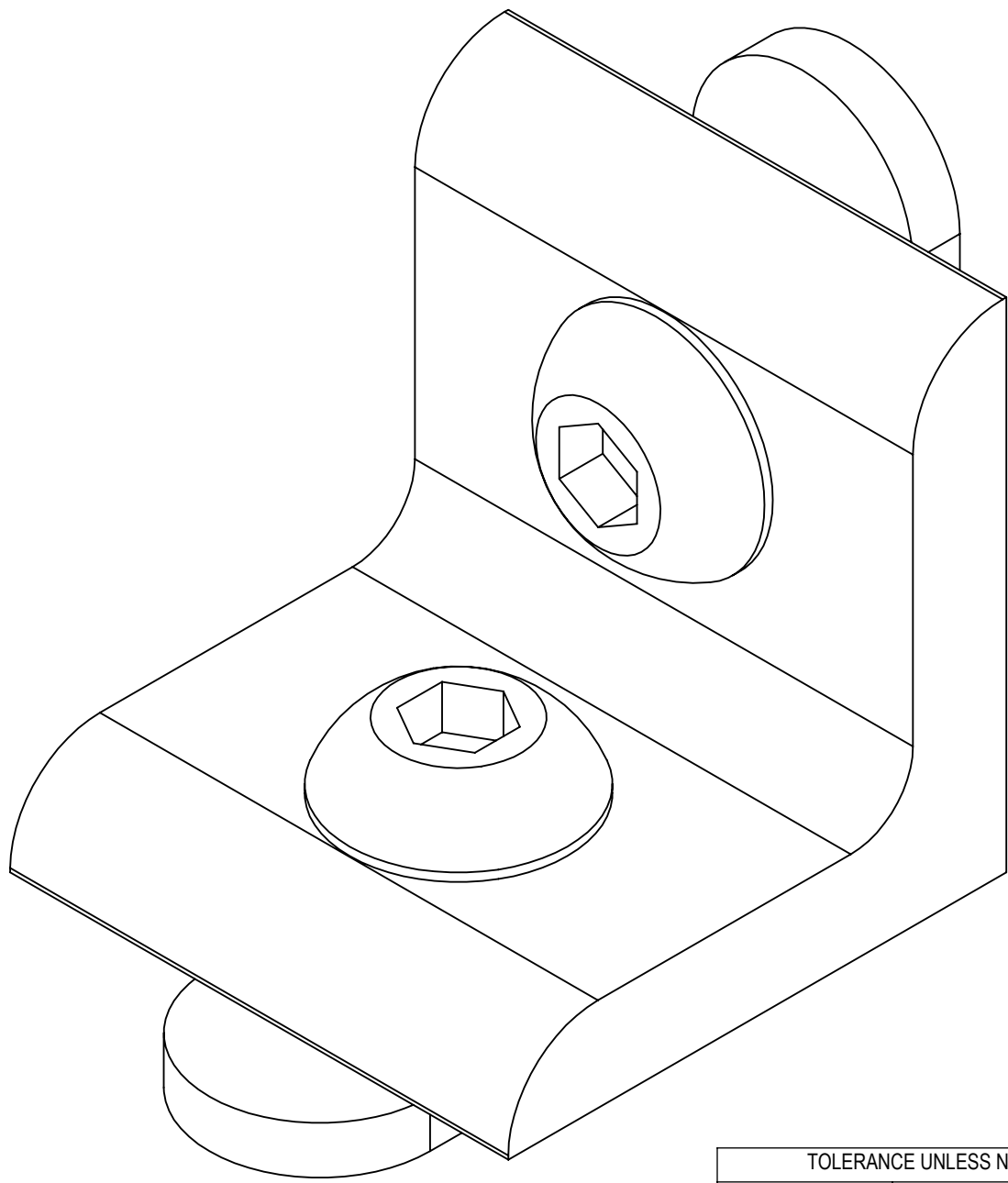
DRAWN     NAN LIN

DESIGNED     NAN LIN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-004	D

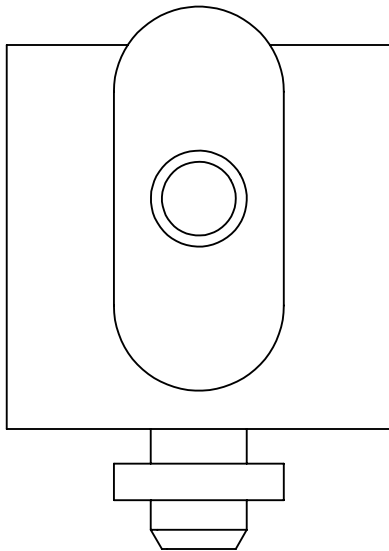
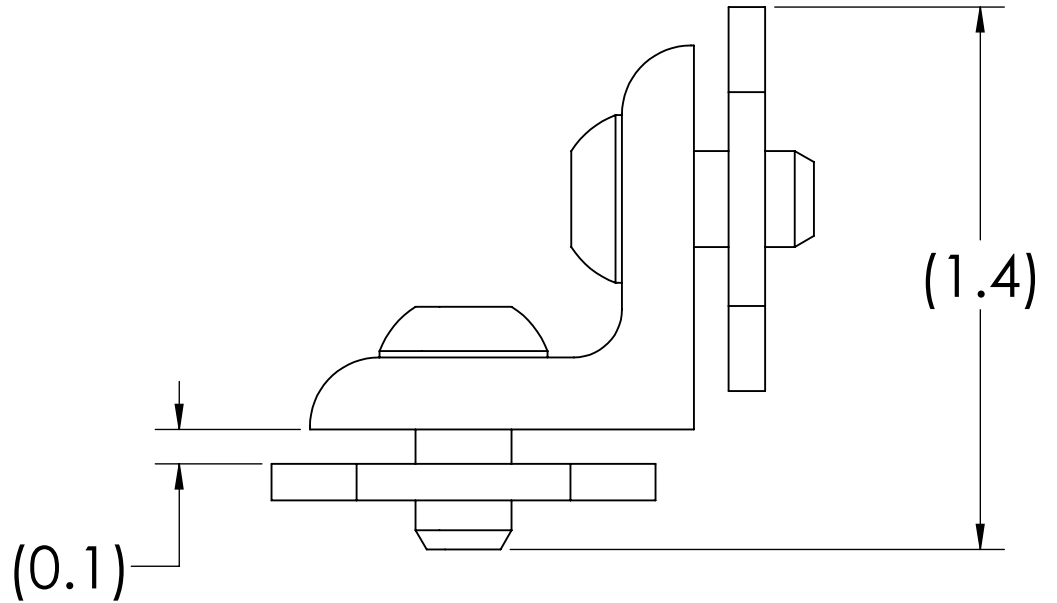
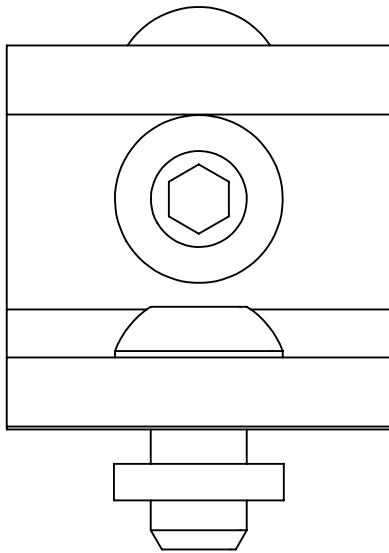
SCALE: 2:5     SHEET 4 OF 4



NOTES:  
1. DIMS IN INCHES  
2. QTY IN BOM

TITLE: 90-DEGREE BRACKET ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-010		D
SCALE: 4:1		SHEET 1 OF 3	

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

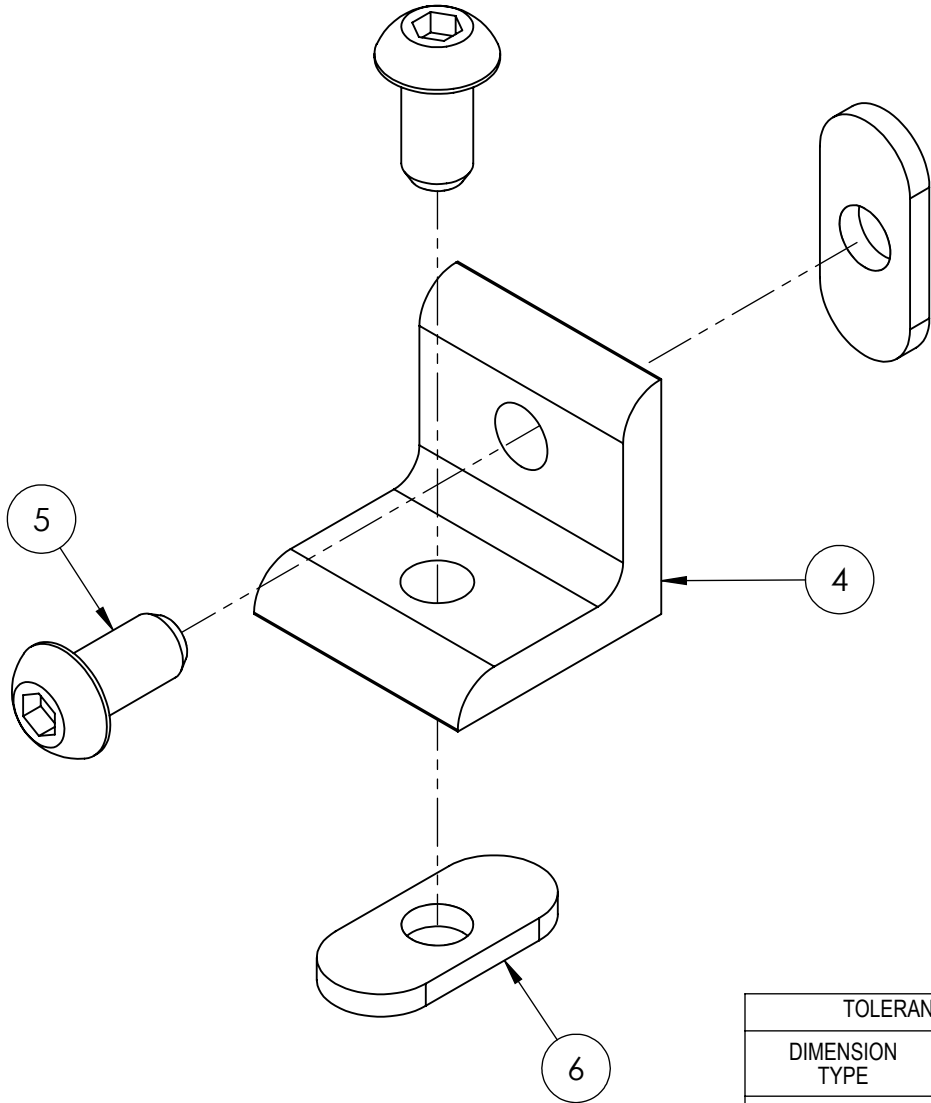


- NOTES:  
 1. DIMS IN INCHES  
 2. QTY IN BOM

TITLE: 90-DEGREE BRACKET ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-010		D
SCALE: 2:1		SHEET 2 OF 3	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

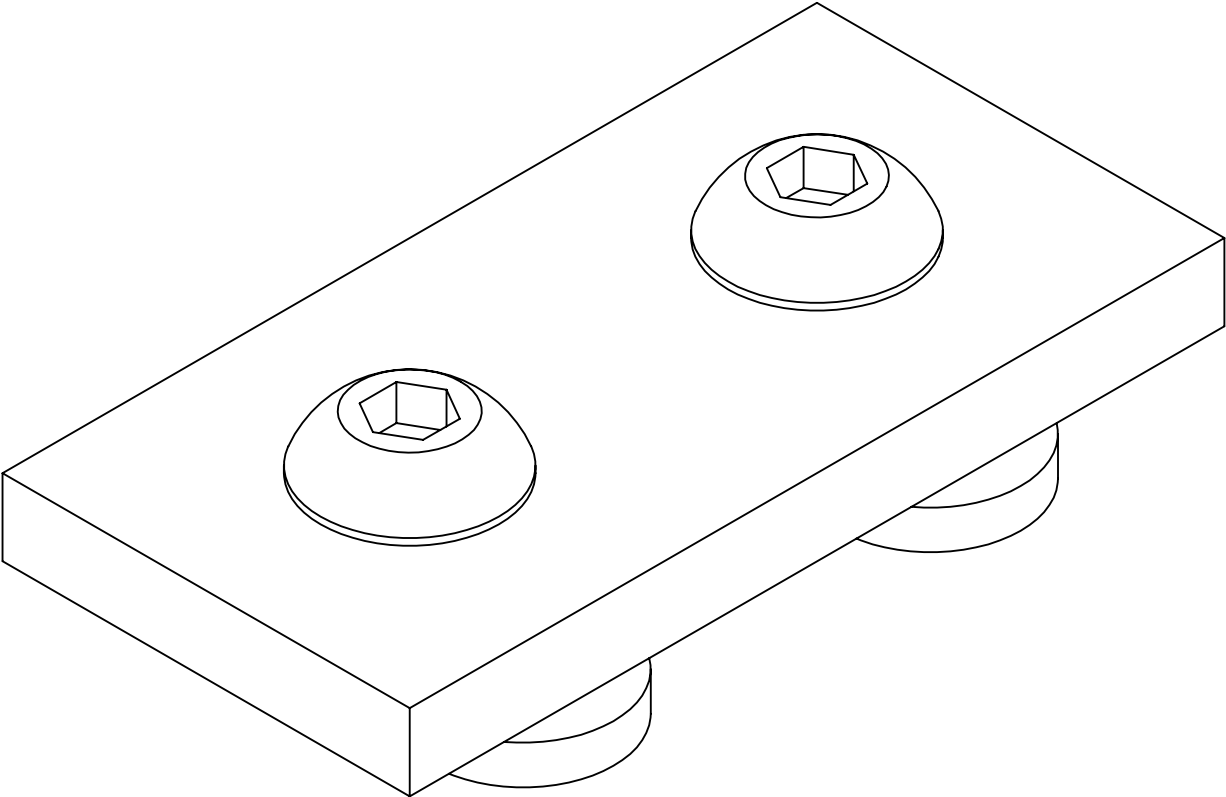
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	2



NOTES:  
 1. DIMS IN INCHES  
 2. QTY IN BOM

TITLE: 90-DEGREE BRACKET ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-010		D
SCALE: 3:2		SHEET 3 OF 3	

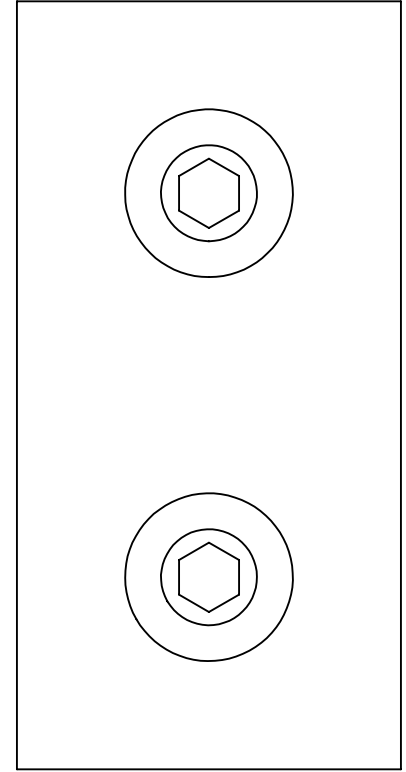
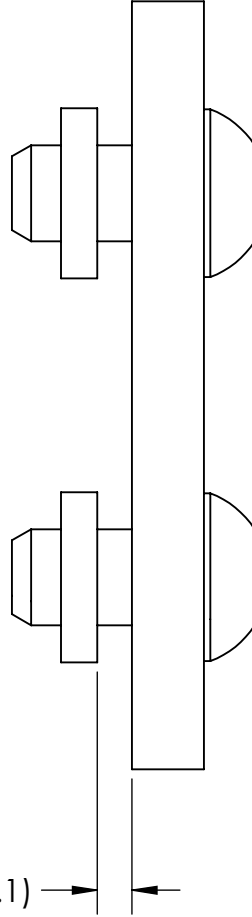
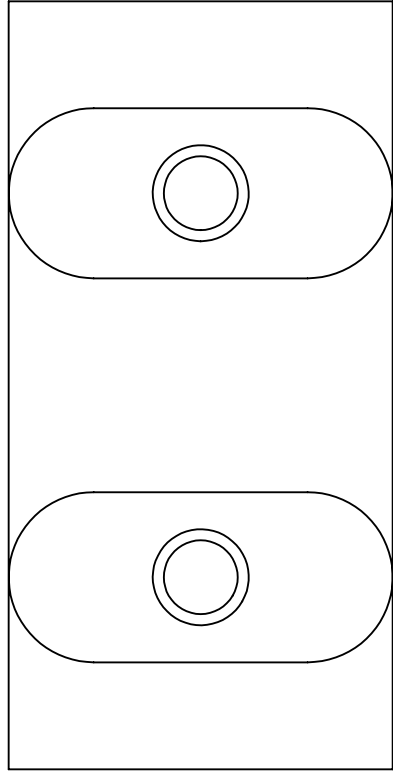
TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY IN BOM

TITLE: STRAIGHT BRACKET ASSEMBLY			
DRAWN I. WIDJAJA			
DESIGNED I. WIDJAJA			
SIZE	DWG. NO.		REV
A	EML2322L-A-011		D
SCALE: 3:1		SHEET 1 OF 3	

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

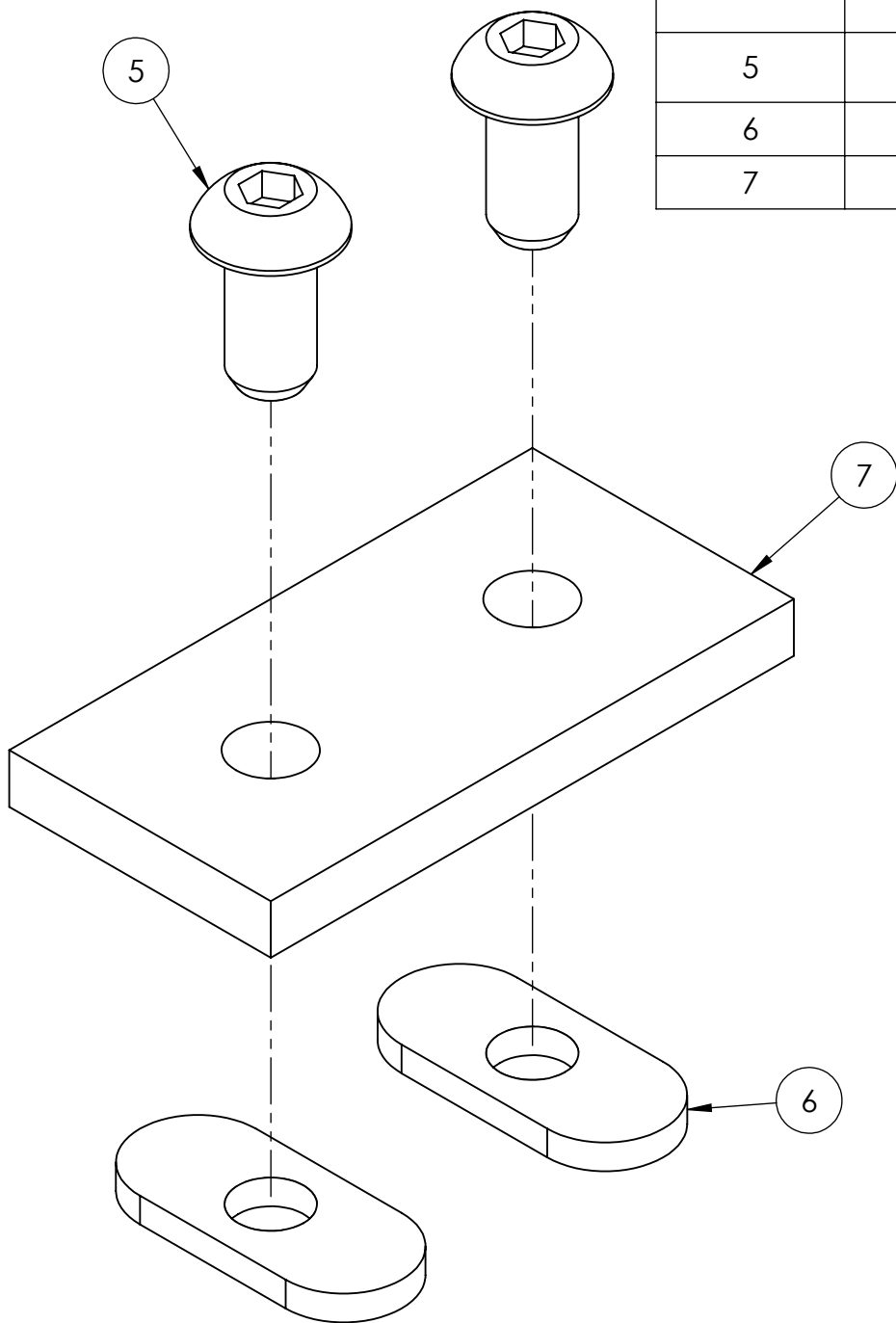


- NOTES:
1. DIMS IN INCHES
  2. QTY IN BOM

TITLE: STRAIGHT BRACKET ASSEMBLY			
DRAWN I. WIDJAJA			
DESIGNED I. WIDJAJA			
SIZE A	DWG. NO. EML2322L-A-011		REV D
SCALE: 2:1		SHEET 2 OF 3	

DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

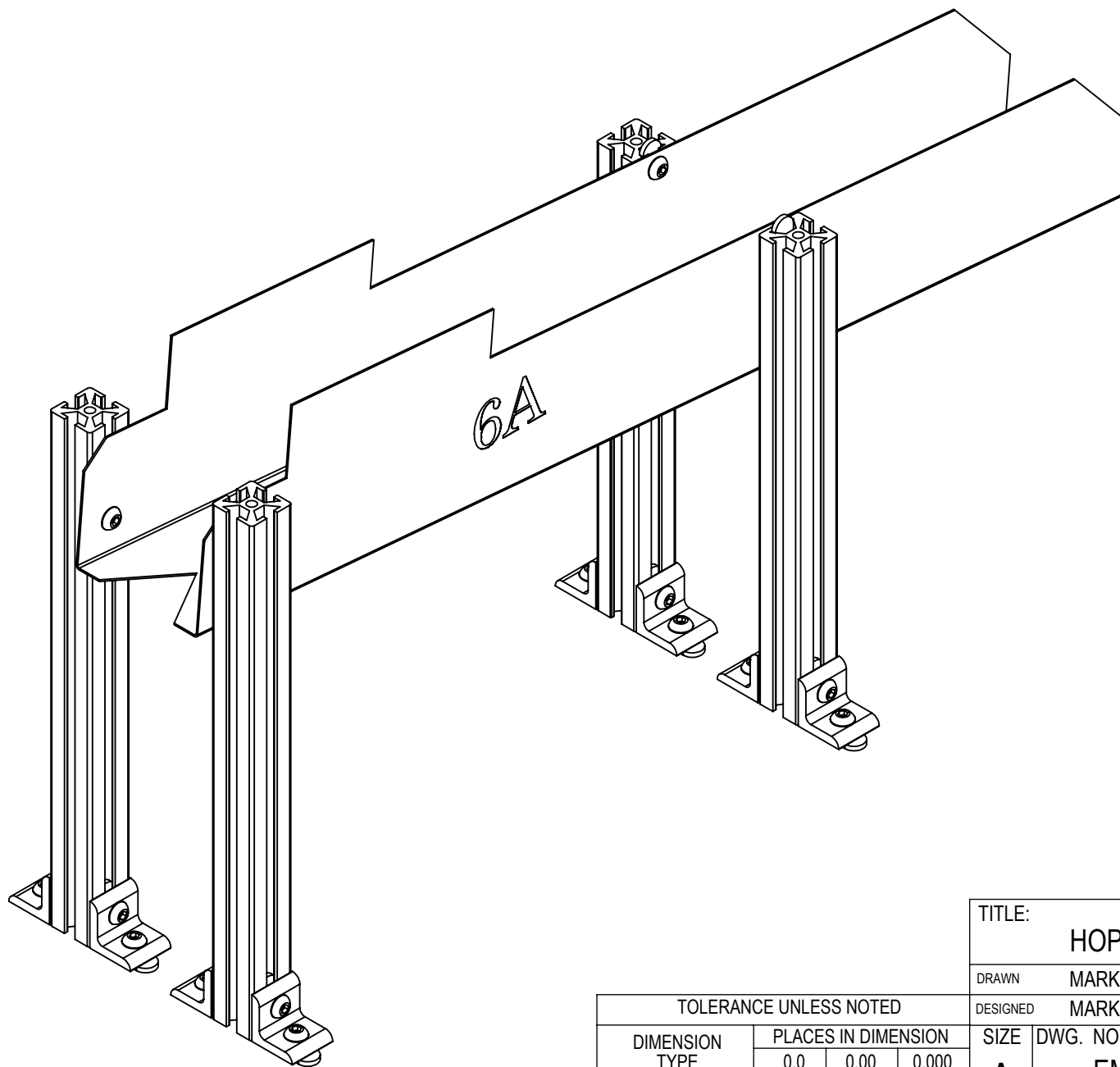
ITEM NO.	PART NUMBER	DESCRIPTION	Both Parallel/Q TY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	2
7	EML2322L-0007	80/20 STRAIGHT BRACKET	1



NOTES:  
1. DIMS IN INCHES  
2. QTY IN BOM

TITLE: STRAIGHT BRACKET ASSEMBLY			
DRAWN I. WIDJAJA			
DESIGNED I. WIDJAJA			
SIZE A	DWG. NO. EML2322L-A-011		REV D
SCALE: 2:1		SHEET 3 OF 3	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

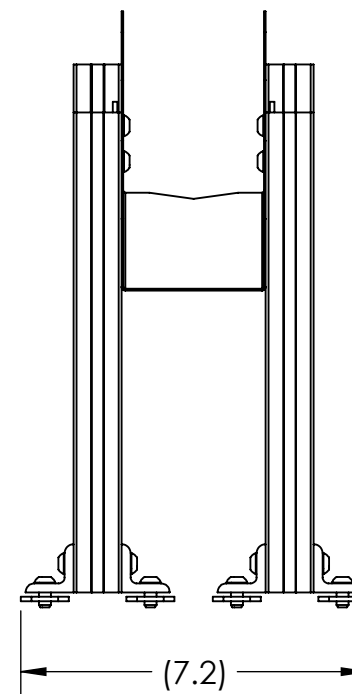
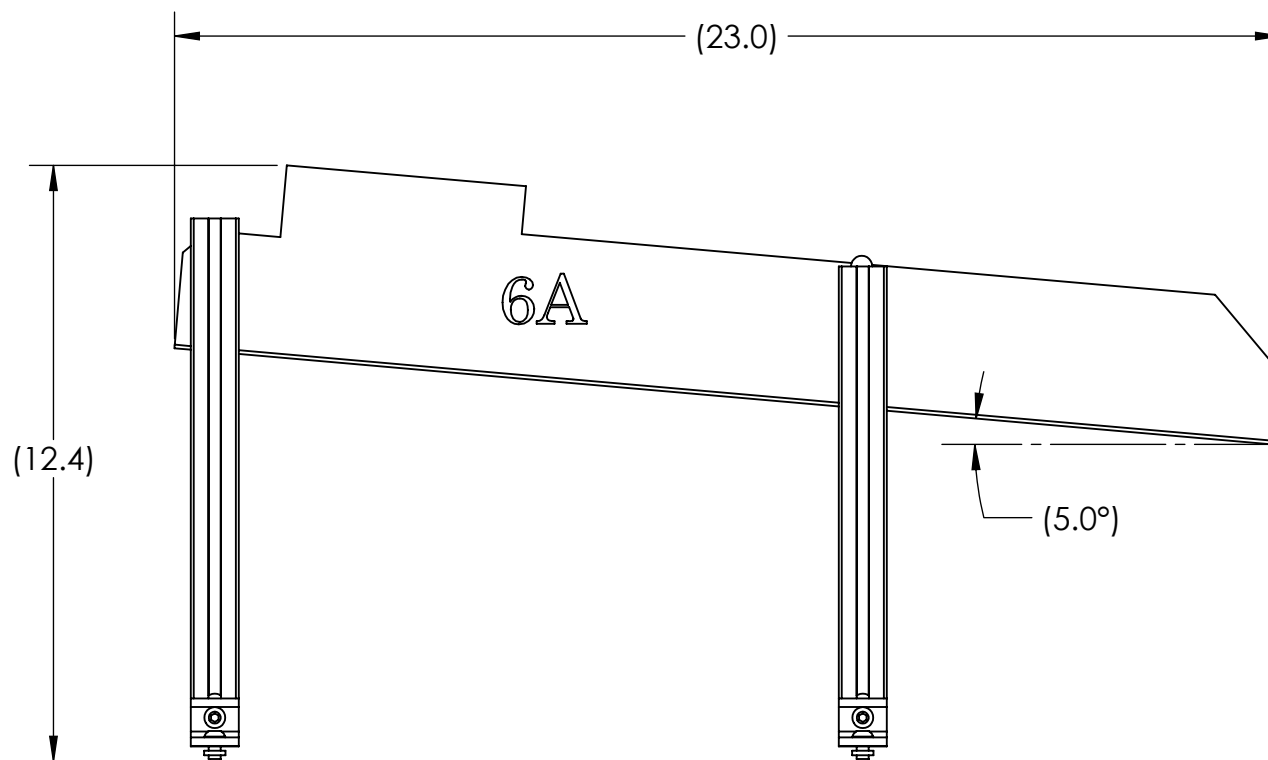


- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:				HOPPER ASSEMBLY		
DRAWN				MARK YEN		
DESIGNED				MARK YEN		
SIZE		DWG. NO.				REV
A		EML2322L-A-013				D
SCALE: 4:11		SHEET 1 OF 4				

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	$\pm 0.050$	$\pm 0.020$	$\pm 0.005$
ANGULAR	$\pm 5$	$\pm 2$	$\pm 0.5$

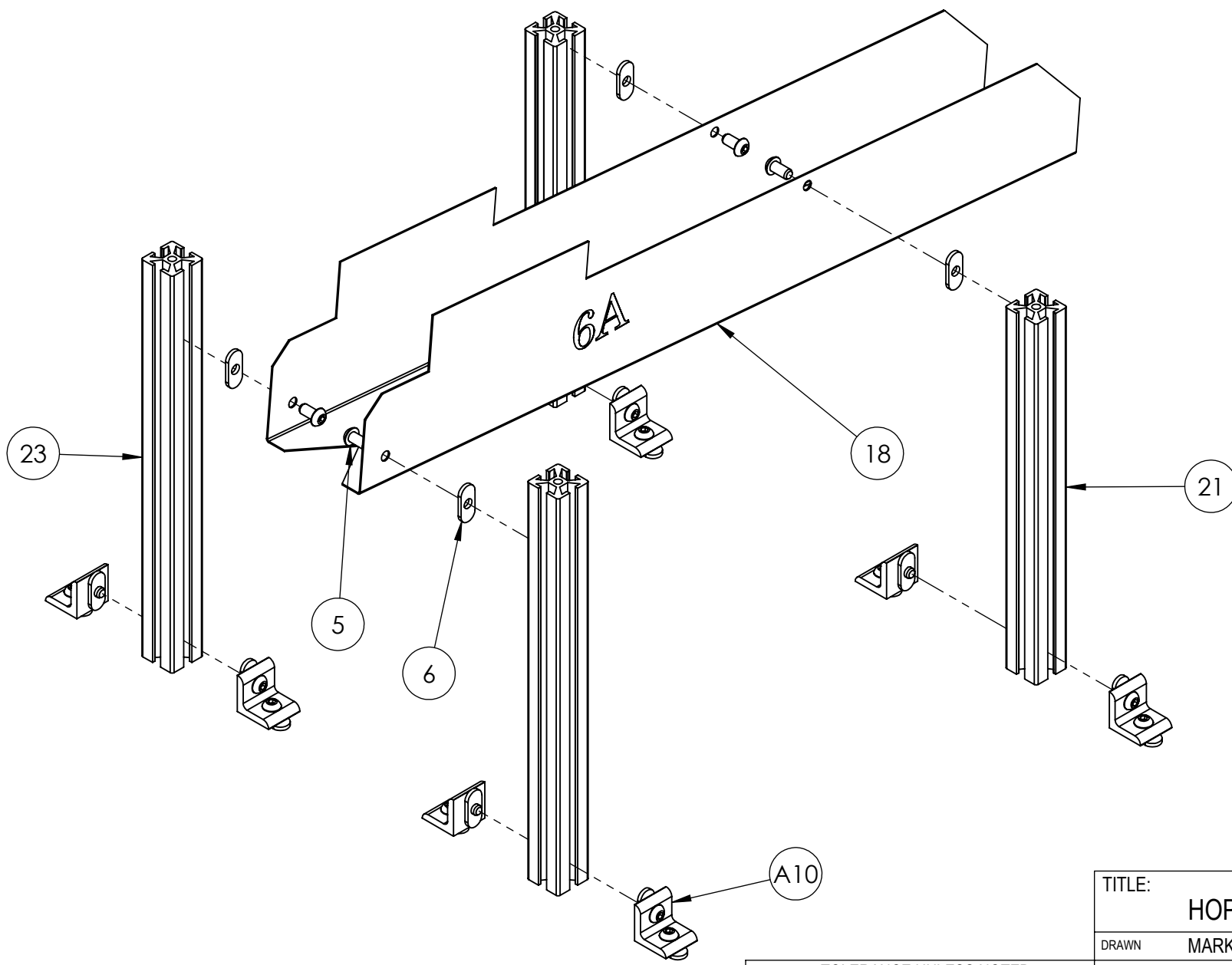




- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:				HOPPER ASSEMBLY		
DRAWN				MARK YEN		
DESIGNED				MARK YEN		
SIZE		DWG. NO.		REV		
A		EML2322L-A-013		D		
SCALE: 1:4				SHEET 2 OF 4		

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

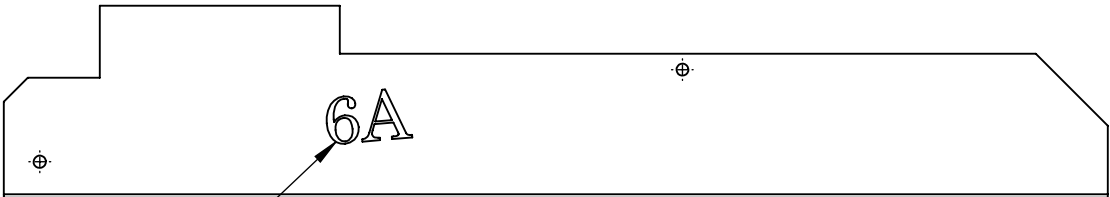
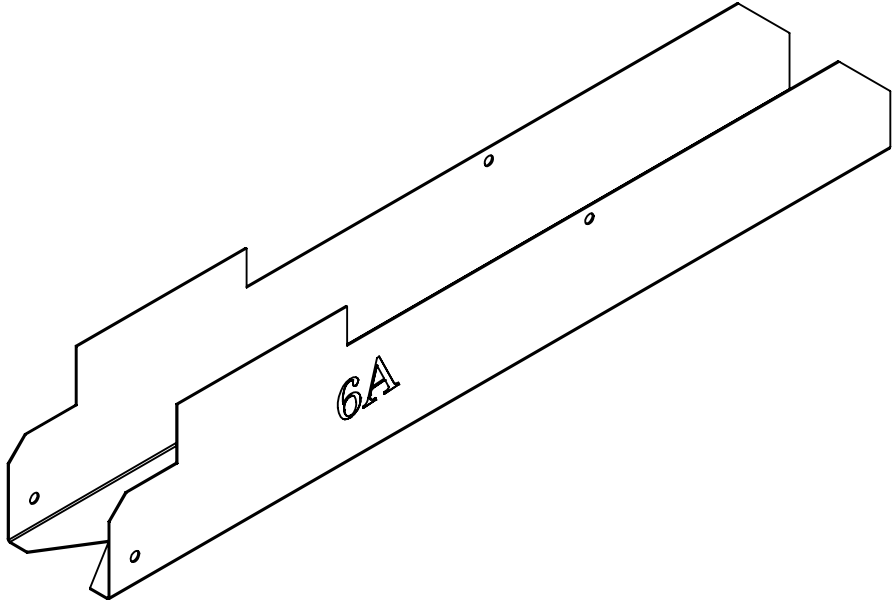
TITLE:				HOPPER ASSEMBLY		
DRAWN				MARK YEN		
DESIGNED				MARK YEN		
SIZE		DWG. NO.		REV		
A		EML2322L-A-013		D		
SCALE: 3:10				SHEET 3 OF 4		

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	4
6	EML2322L-0006	1/4-20 T-NUT	4
18	EML2322L-0018	BALL HOPPER	1
21	EML2322L-0021	80/20 EXTRUSION - 10 in	2
23	EML2322L-0023	80/20 EXTRUSION - 11.0 in	2
A10	EML2322L-A-010	90-DEGREE BRACKET ASSEMBLY	8

NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:				HOPPER ASSEMBLY			
DRAWN				MARK YEN			
DESIGNED				MARK YEN			
TOLERANCE UNLESS NOTED		SIZE	DWG. NO.			REV	
DIMENSION TYPE	PLACES IN DIMENSION			A			D
	0.0	0.00	0.000				
LOCATIONAL	±0.050	±0.020	±0.005	EML2322L-A-013			
ANGULAR	±5	±2	±0.5	SCALE: 1:8		SHEET 4 OF 4	

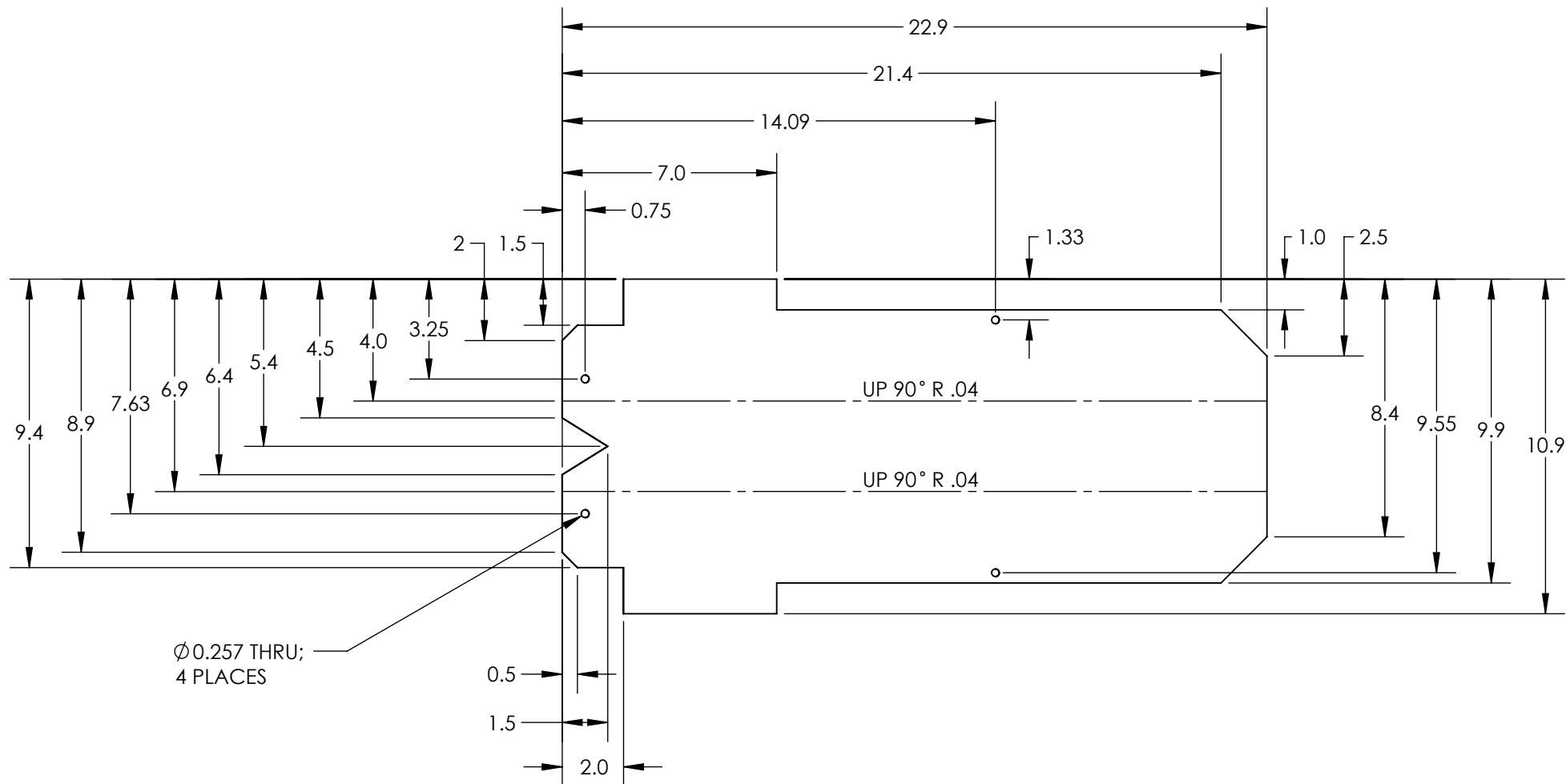


SINCE THE HOPPER WILL BE AT AN ANGLE DURING ASSEMBLY, THE GROUP NUMBER WILL BE WRITTEN AT AN ANGLE TO APPEAR LEVEL DURING ASSEMBLY.

- NOTES:
- 1. DIMS IN INCHES
  - 2. QTY: 1
  - 3. MATL: 20 GAGE STEEL
  - 4. UNFINISHED SURFACES
  - 5. BREAK ALL EDGES

FOLDED VIEW

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL HOPPER		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING				DESIGNED	MARK YEN	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0018	E
ANGULAR DIMS	±5	±2		SCALE: 1:4		SHEET 1 OF 2

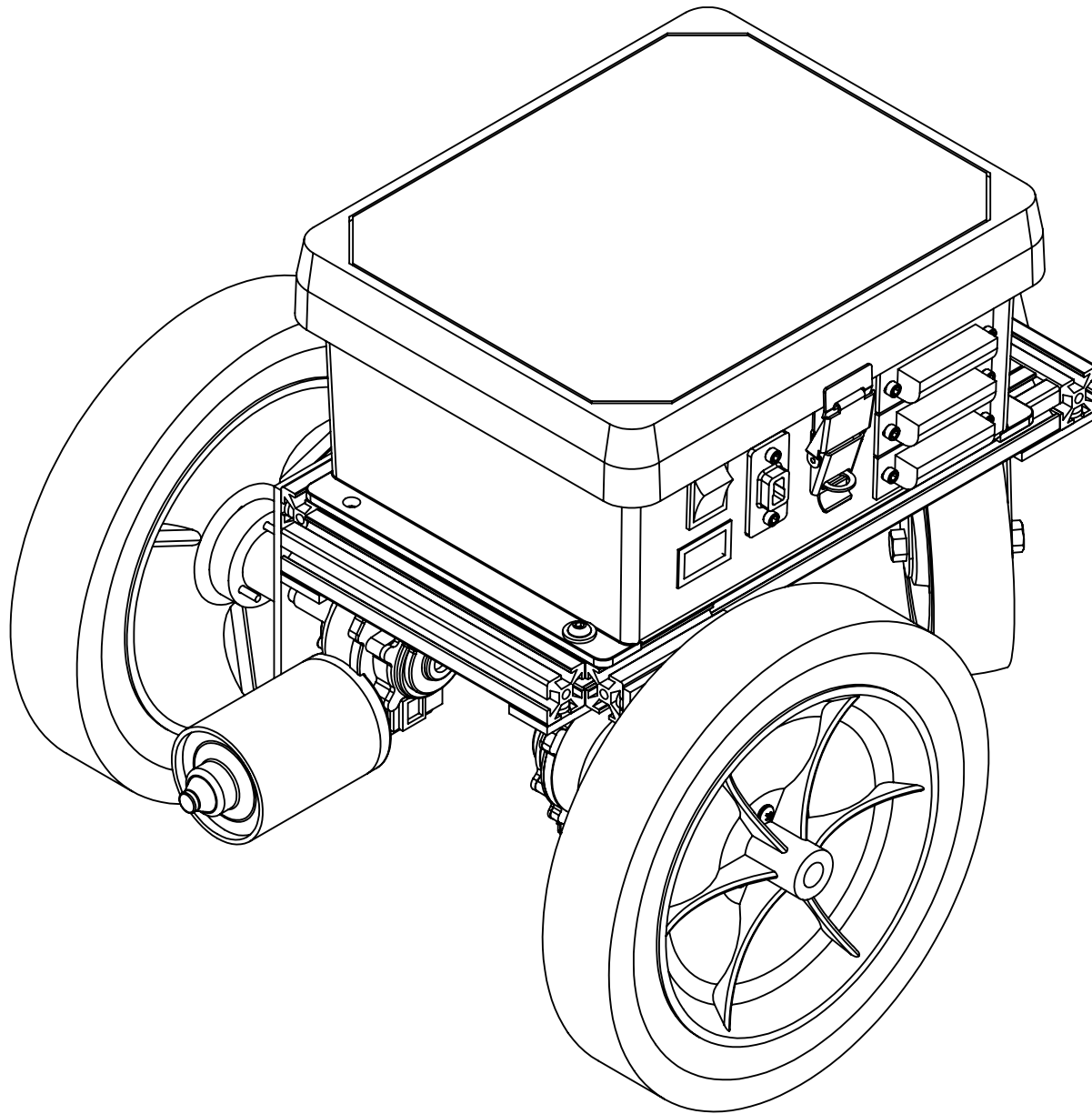


Ø0.257 THRU;  
4 PLACES

UNFOLDED VIEW

- NOTES:  
 1.DIMS IN INCHES  
 2.QTY: 1  
 3.MATL: 20 GAGE STEEL  
 4.UNFINISHED SURFACES  
 5.BREAK ALL EDGES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL HOPPER		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING				DESIGNED	MARK YEN	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0018	E
ANGULAR DIMS	±5	±2		SCALE: 1:5		SHEET 2 OF 2



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
**PLATFORM WITH CONTROL BOX**

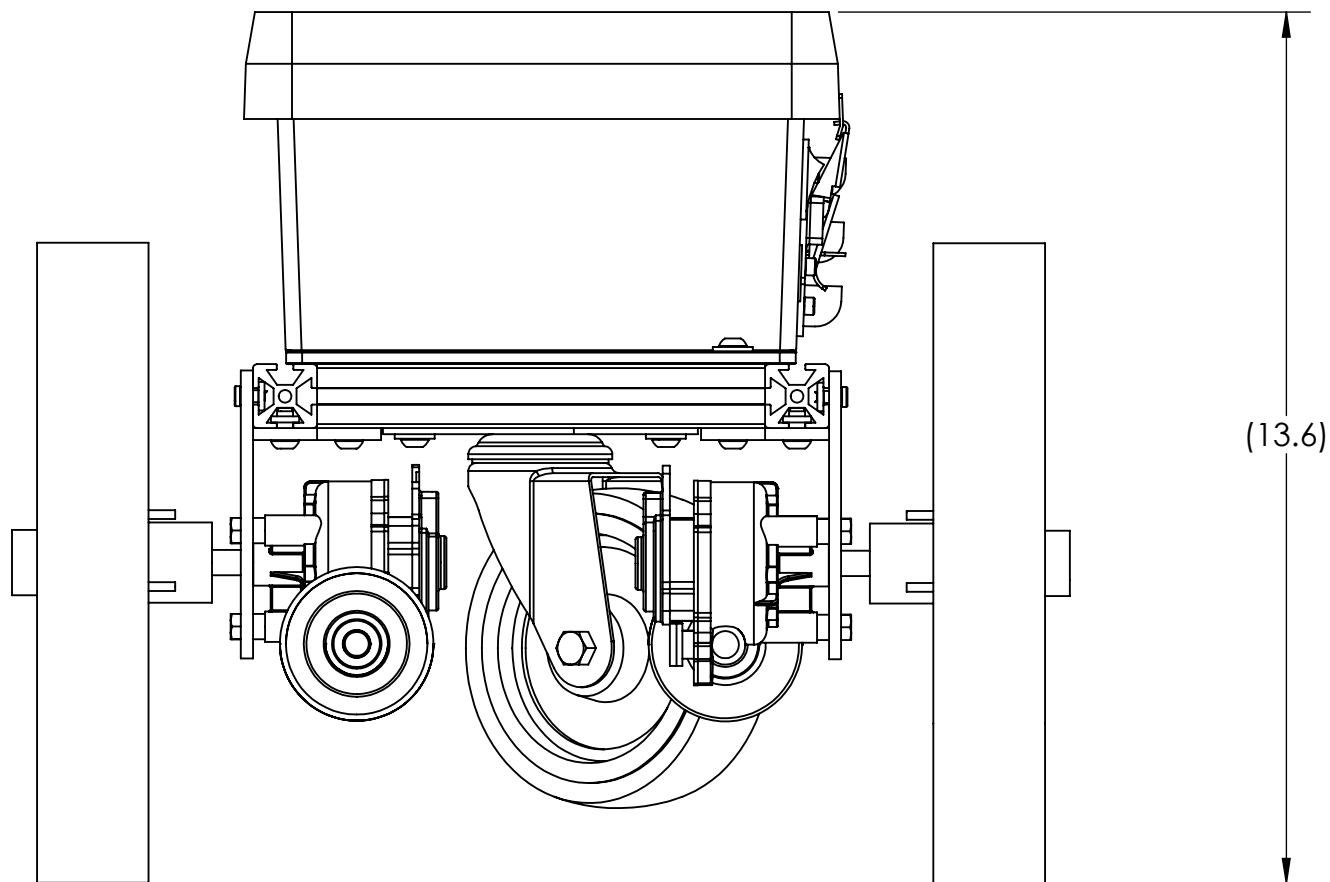
DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				SIZE	DWG. NO.	REV
DIMENSION TYPE	PLACES IN DIMENSION			A	EML2322L-A-015	D
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5			

SCALE: 4:13

SHEET 1 OF 6



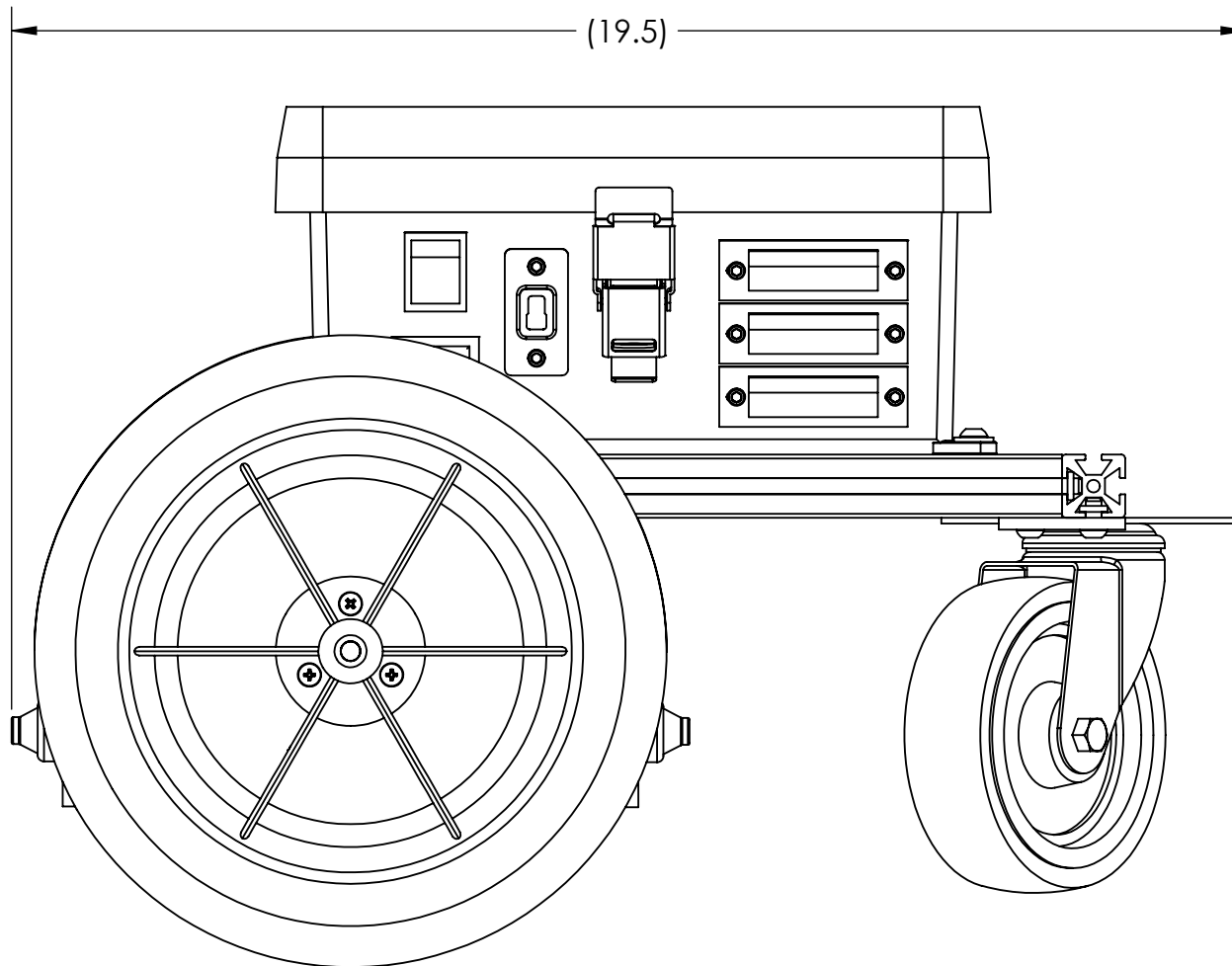
- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
**PLATFORM WITH CONTROL BOX**

DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				DESIGNED      NAN LIN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-015	REV  D
	0.0	0.00	0.000			
	LOCATIONAL	±0.050	±0.020			
ANGULAR	±5	±2	±0.5	SCALE: 1:3		SHEET 2 OF 6



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
**PLATFORM WITH CONTROL BOX**

DRAWN NAN LIN

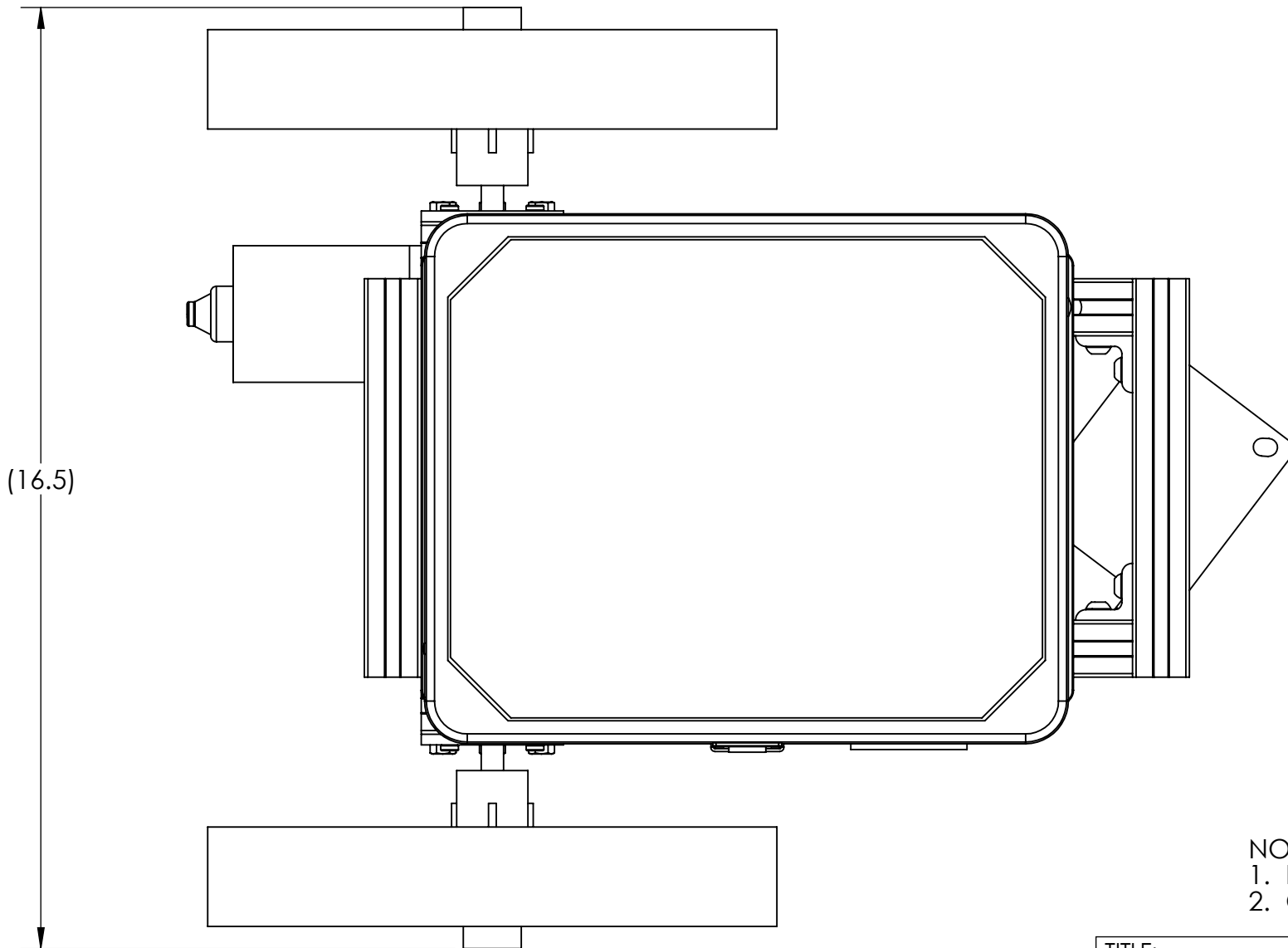
DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				DESIGNED      NAN LIN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-015	REV  D
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5	SCALE: 1:3		SHEET 3 OF 6

SCALE: 1:3

SHEET 3 OF 6

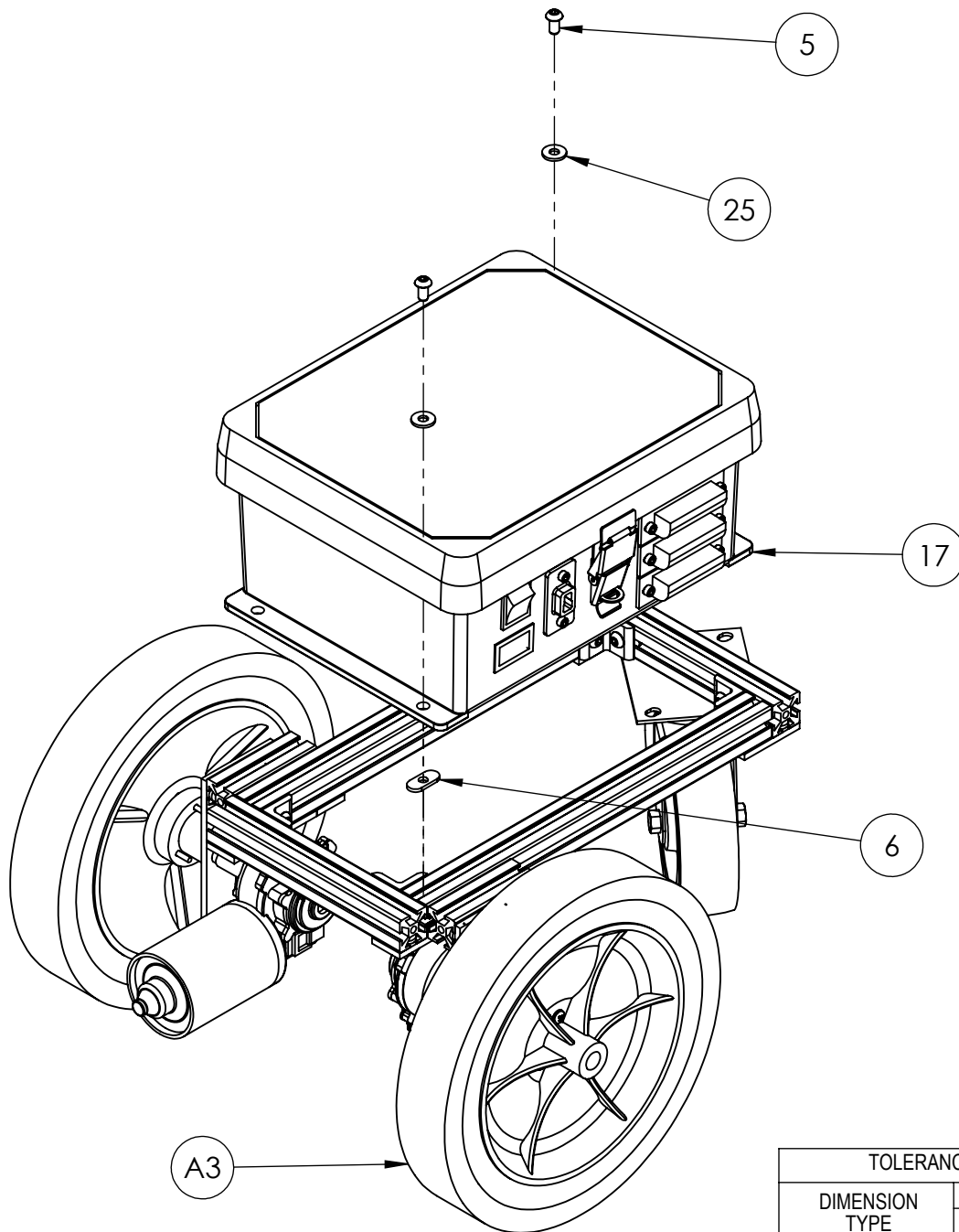




NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: PLATFORM WITH CONTROL BOX			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-015		D
SCALE: 5:14		SHEET 4 OF 6	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
**PLATFORM WITH CONTROL BOX**

DRAWN NAN LIN

DESIGNED NAN LIN

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	$\pm 0.050$	$\pm 0.020$	$\pm 0.005$
ANGULAR	$\pm 5$	$\pm 2$	$\pm 0.5$

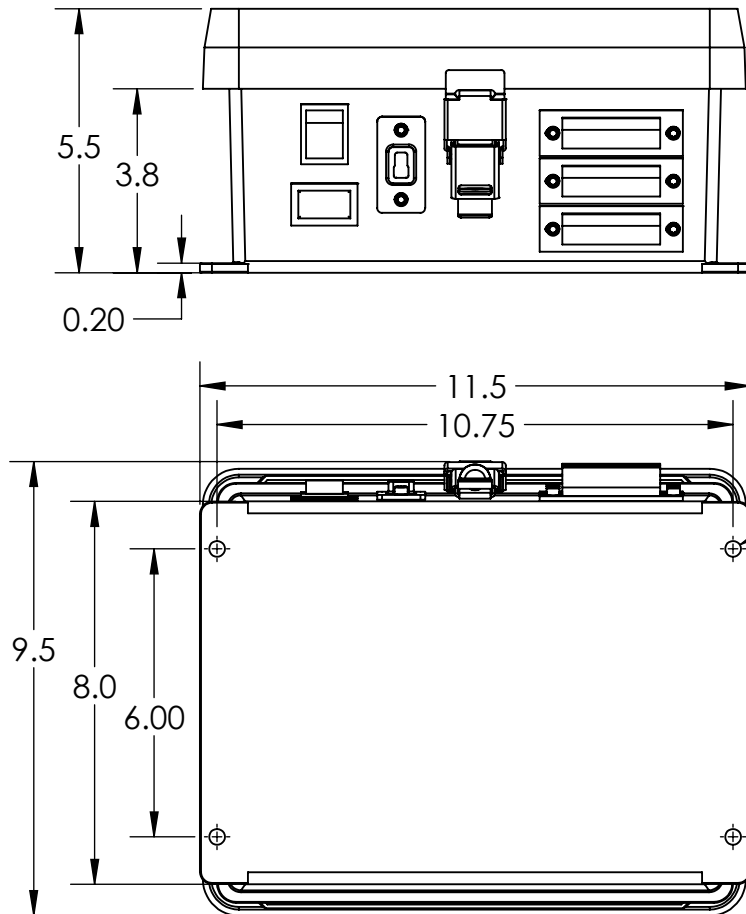
SIZE	DWG. NO.	REV
<b>A</b>	<b>EML2322L-A-015</b>	<b>D</b>

SCALE: 2:9		SHEET 5 OF 6
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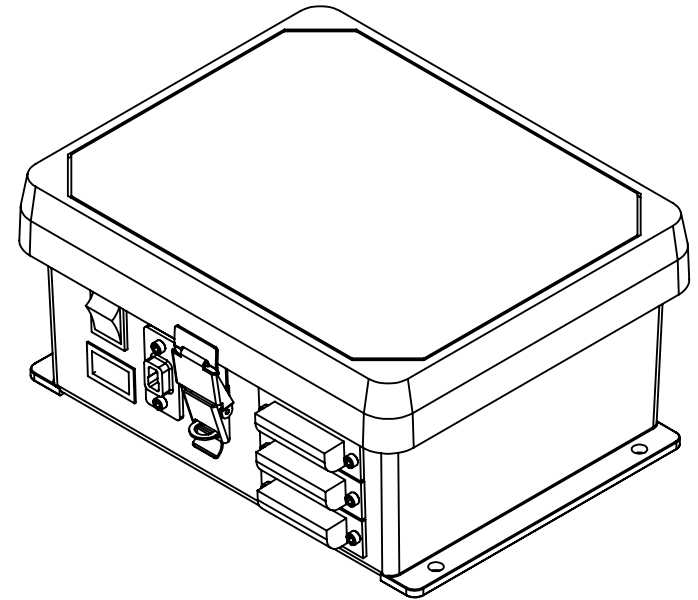
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	2
17	EML2322L-0017	CONTROL BOX	1
25	EML2322L-0025	1/4 in WASHER	2
A3	EML2322L-A-003	PLATFORM WITH WHEELS ASSEMBLY	1

NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: PLATFORM WITH CONTROL BOX			
DRAWN     NAN LIN			
DESIGNED     NAN LIN			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5
SIZE A	DWG. NO. EML2322L-A-015		REV D
SCALE: 1:8		SHEET 6 OF 6	

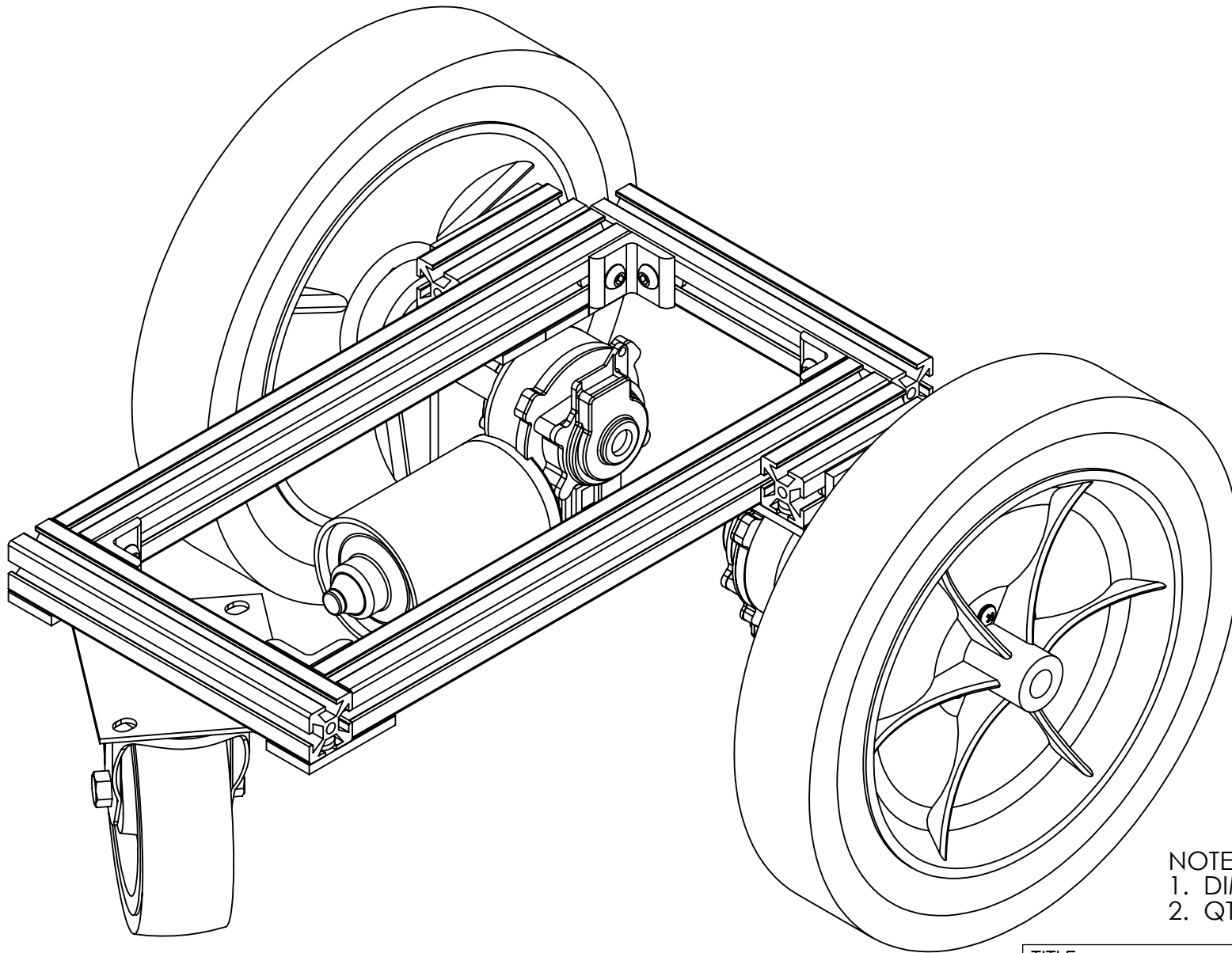


Ø 0.328 THRU;  
4 PLACES



- NOTES:  
1. DIMS IN INCHES  
2. QTY SPECIFIED IN BOM  
3. DIM AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:  CONTROL BOX		
MEASURING INSTRUMENT	PLACES IN DIMENSION					
	0.0	0.00	0.000	DRAWN	KRISTIN BROOKER	
CALIPERS			±0.005	DESIGNED	VYNCKIER ENCLOSURES	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0017	B
PROTRACTOR	±10	±5	±2	SCALE: 1:4		SHEET 1 OF 1



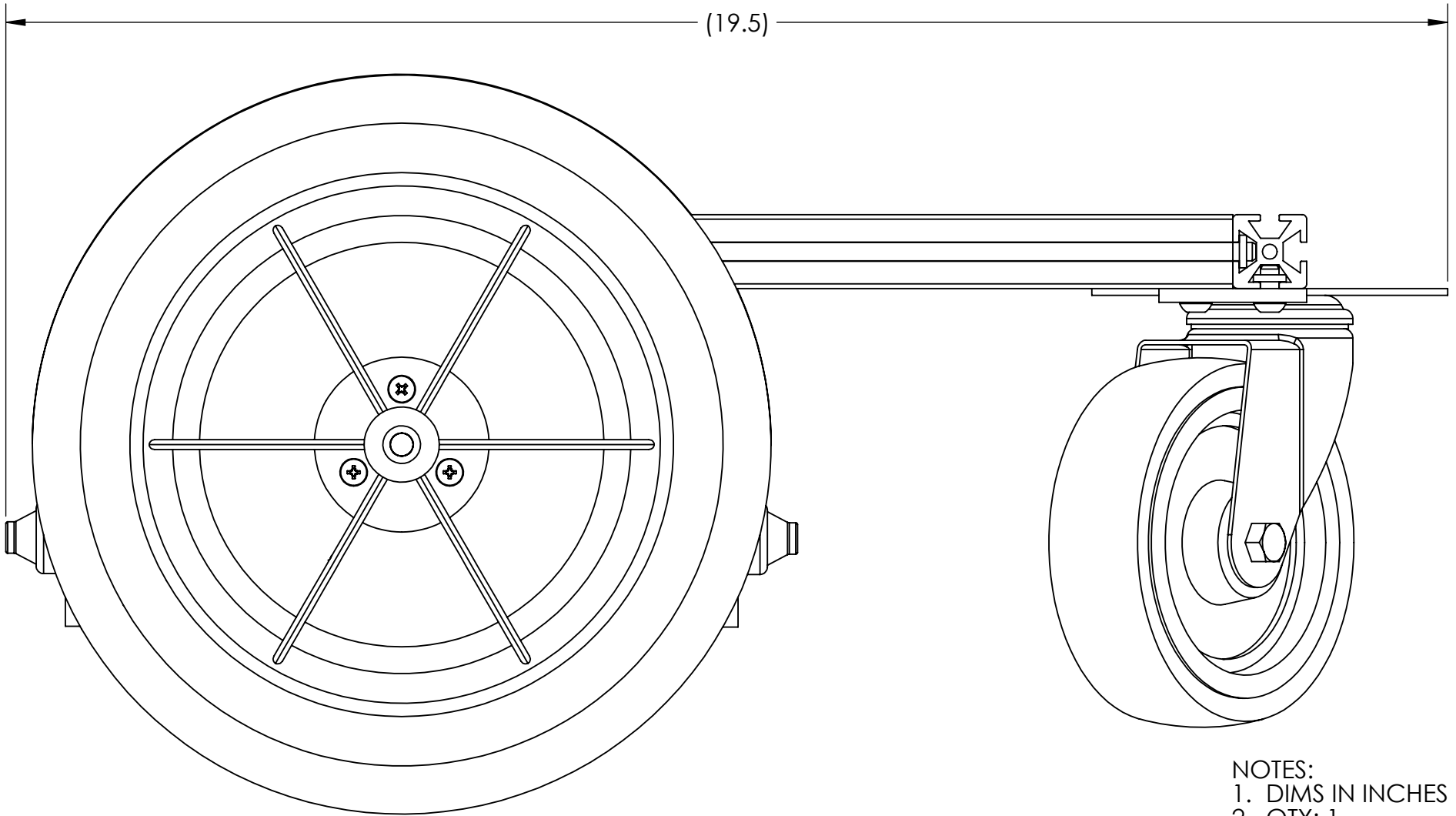
NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
PLATFORM WITH WHEELS ASSEMBLY

DRAWN NAN LIN

DESIGNED NAN LIN

TOLERANCE UNLESS NOTED				DESIGNED      NAN LIN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-003	REV  D
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5	SCALE: 2:5		SHEET 1 OF 5



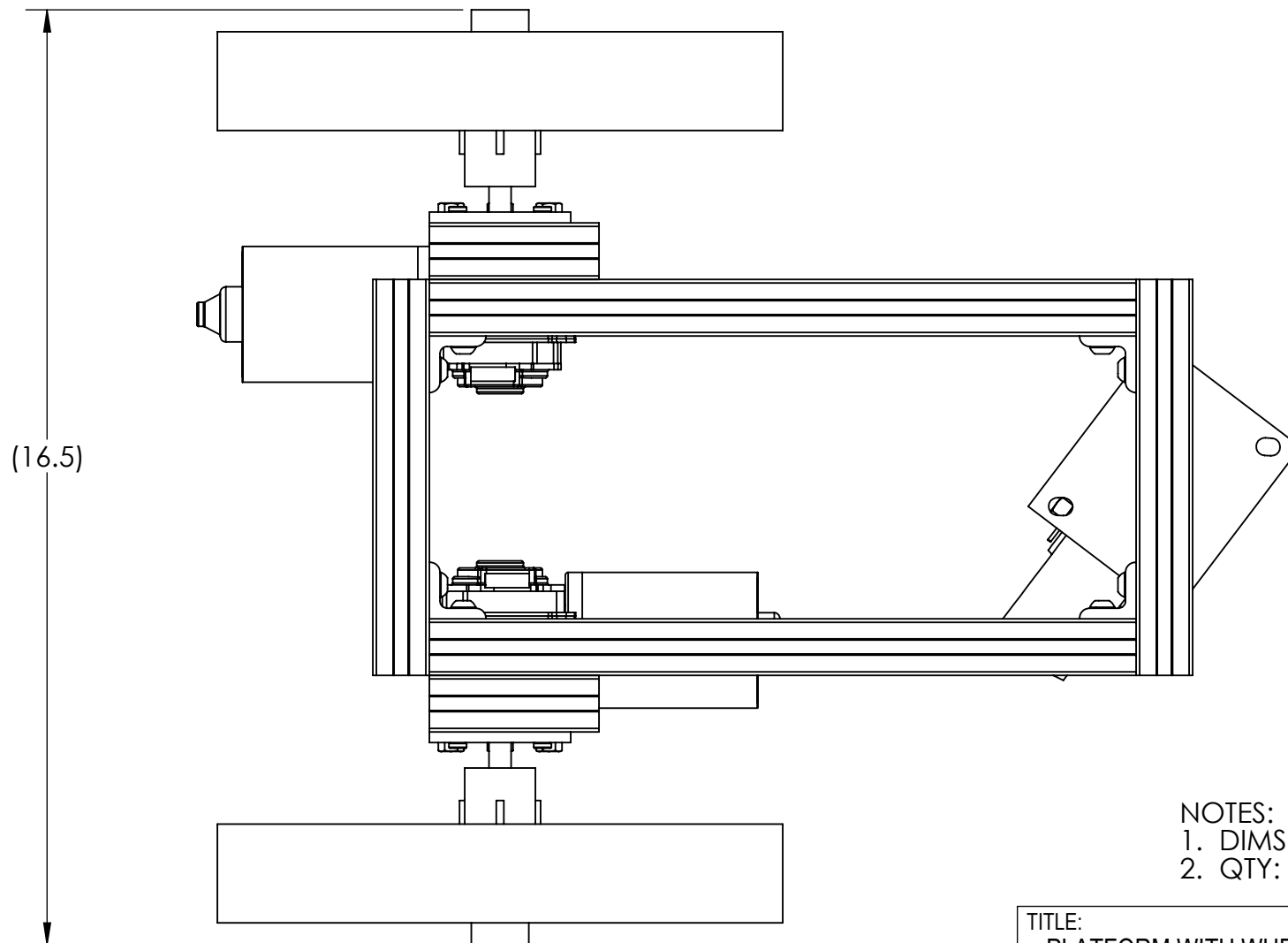
- NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
PLATFORM WITH WHEELS ASSEMBLY

DRAWN NAN LIN

DESIGNED NAN LIN

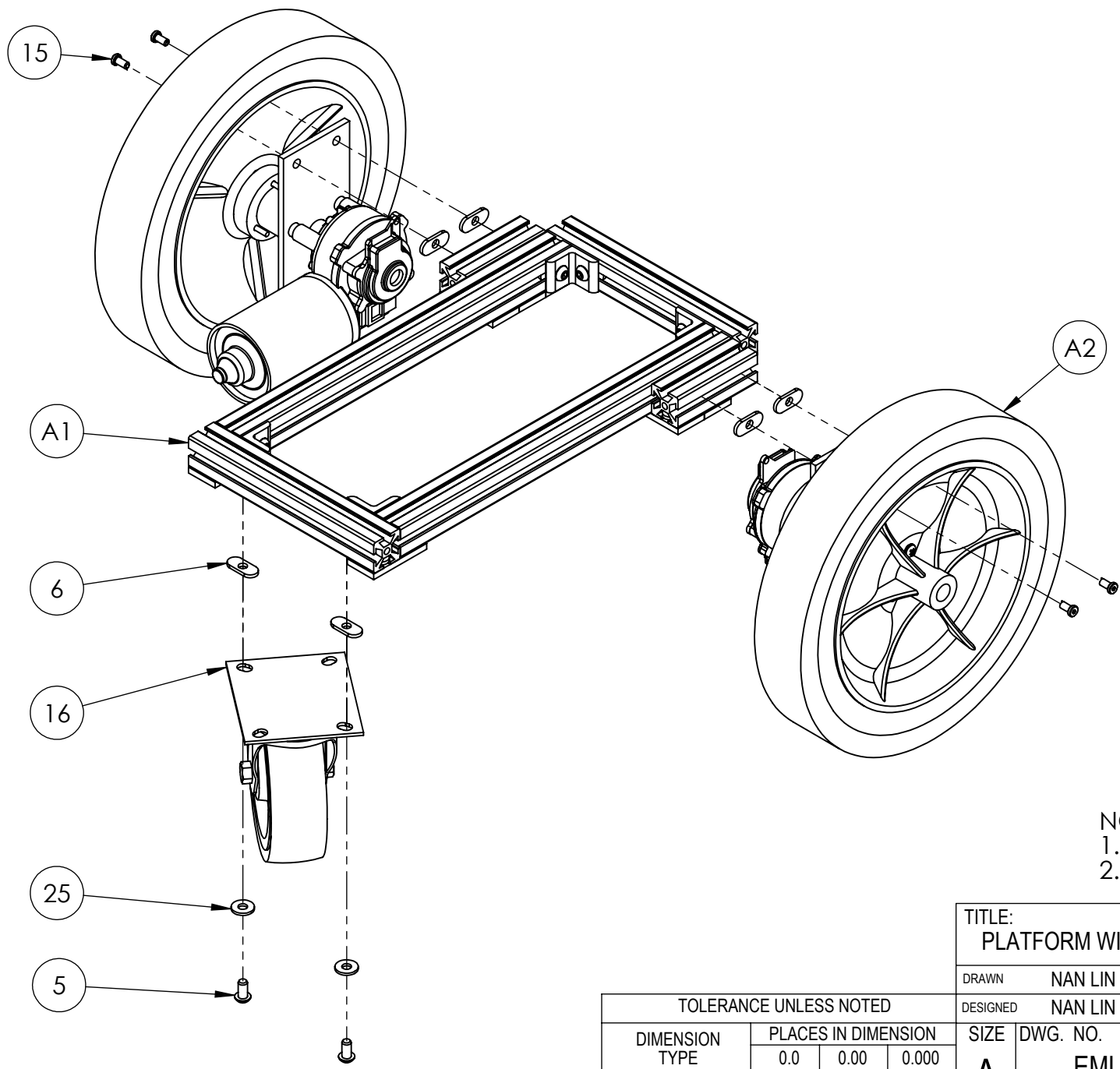
TOLERANCE UNLESS NOTED				DESIGNED      NAN LIN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE  A	DWG. NO.  EML2322L-A-003	REV  D
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5	SCALE: 1:2		SHEET 2 OF 5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: PLATFORM WITH WHEELS ASSEMBLY			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE	DWG. NO.		REV
A	EML2322L-A-003		D
SCALE: 1:3		SHEET 3 OF 5	

DIMENSION TYPE	TOLERANCE UNLESS NOTED PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE:  
PLATFORM WITH WHEELS ASSEMBLY

DRAWN NAN LIN

DESIGNED NAN LIN

DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE <b>A</b>	DWG. NO. EML2322L-A-003	REV <b>D</b>
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SCALE: 1:4	SHEET 4 OF 5
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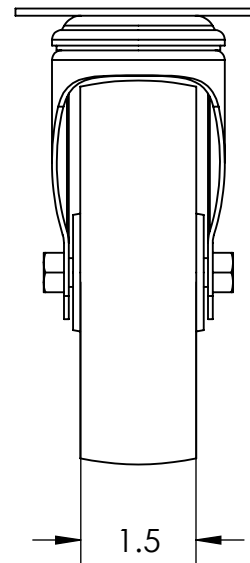
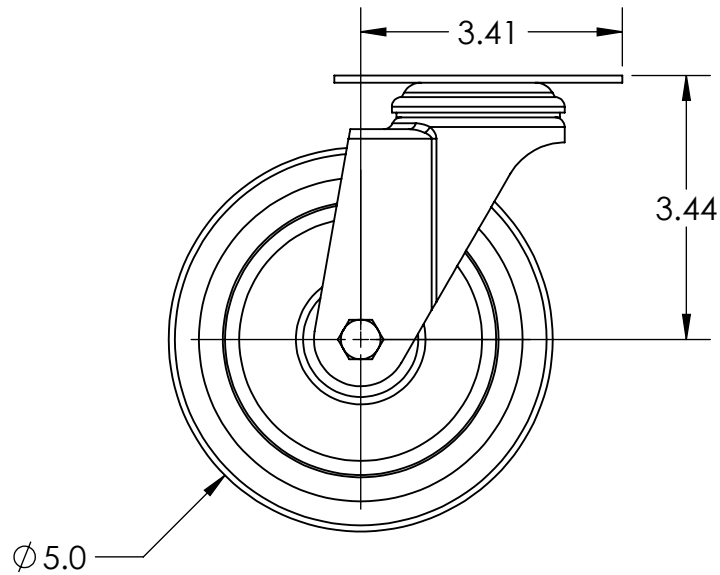
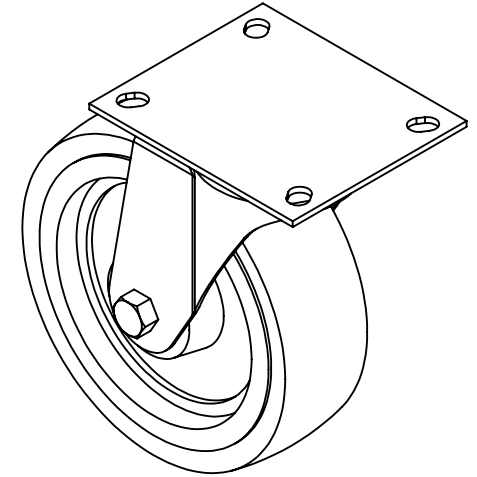
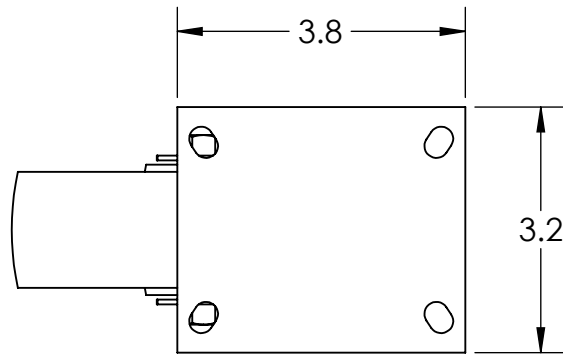


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	6
15	EML2322L-0015	10-24 x 3/8 in SOCKET HEAD SCREW	4
16	EML2322L-0016	5 in CASTER WHEEL	1
25	EML2322L-0025	1/4 in WASHER	2
A1	EML2322L-A-001	MOBILE PLATFORM FRAME ASSEMBLY	1
A2	EML2322L-A-002	WHEEL AND MOTOR ASSEMBLY	2

NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

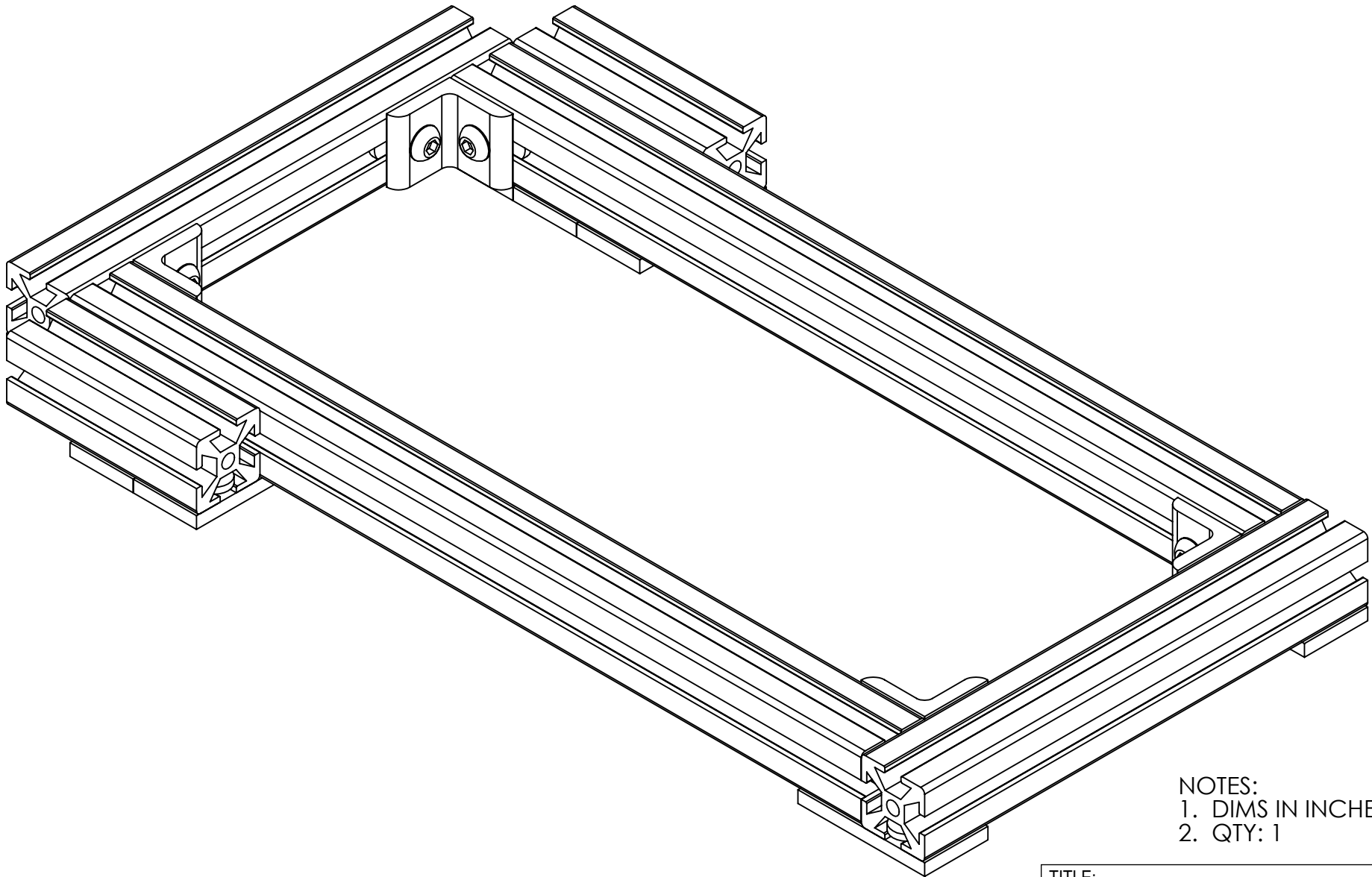
TITLE: PLATFORM WITH WHEELS ASSEMBLY			
DRAWN		NAN LIN	
DESIGNED		NAN LIN	
SIZE A	DWG. NO. EML2322L-A-003		REV D
SCALE: 1:4			SHEET 5 OF 5

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



- NOTES:
1. DIMS IN INCHES
  2. QTY SPECIFIED IN BOM
  3. DIM AND MAT'L SPECIFIED BY MANUFACTURER

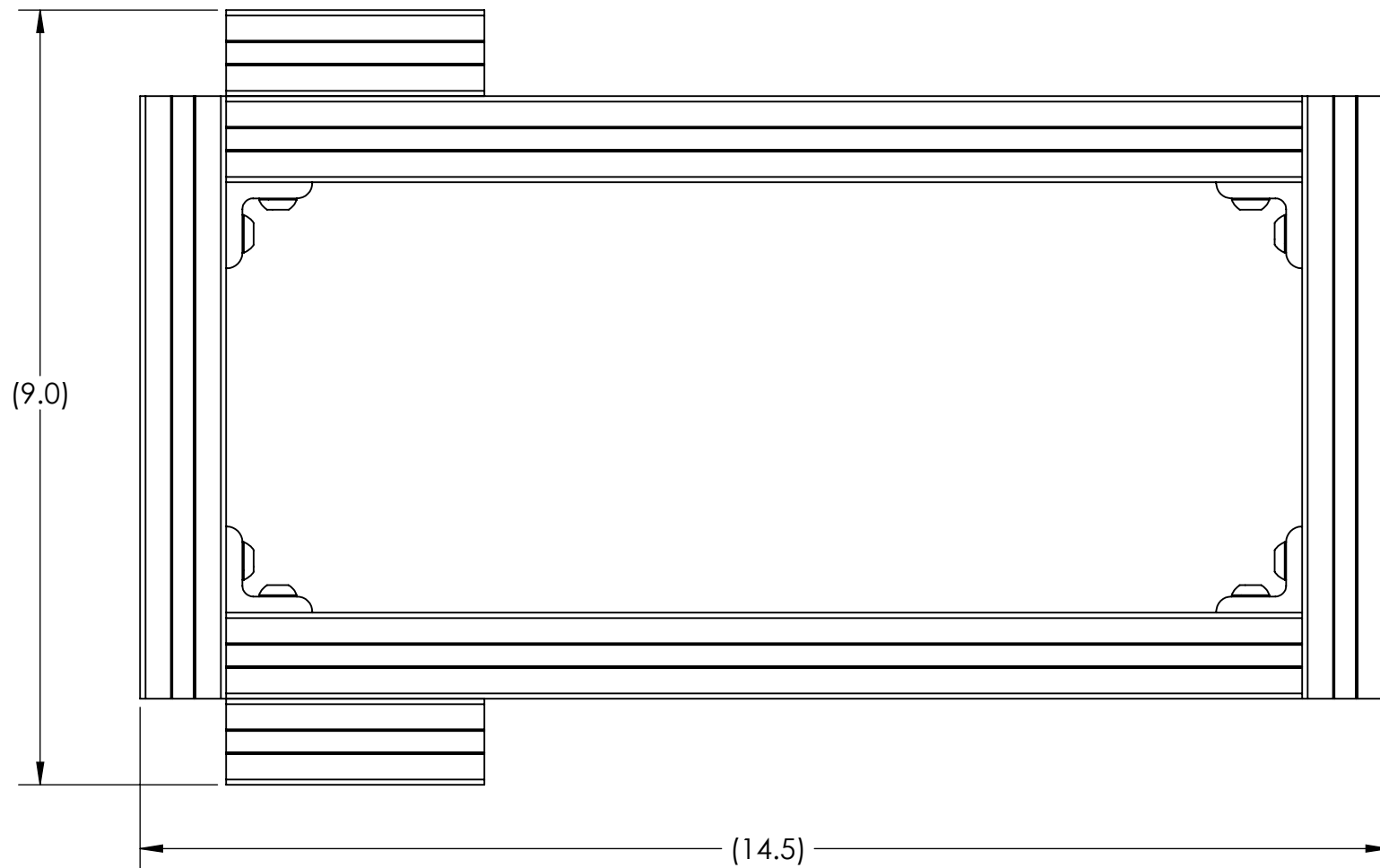
TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			5 in CASTER WHEEL		
	0.0	0.00	0.000	DRAWN	MARK YEN	
CALIPERS			$\pm 0.005$	DESIGNED	ARNOLD	
PRECISION RULER		$\pm 0.015$		SIZE	DWG. NO. EML2322L-0016	REV A
TAPE MEASURE	$\pm 0.030$			A		
PROTRACTOR	$\pm 10$	$\pm 5$	$\pm 2$	SCALE: 2:5		SHEET 1 OF 1



NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

TITLE: MOBILE PLATFORM FRAME ASSEMBLY			
DRAWN		CATHERINE M. MARTINEZ	
DESIGNED		CATHERINE M. MARTINEZ	
SIZE	DWG. NO.		REV
A	EML2322L-A-001		E
SCALE: 5:8		SHEET 1 OF 4	

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE:  
 MOBILE PLATFORM FRAME ASSEMBLY

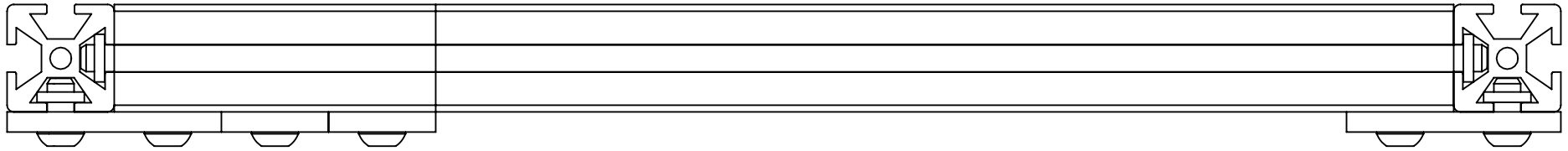
DRAWN CATHERINE M. MARTINEZ

DESIGNED CATHERINE M. MARTINEZ

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-001	E

SCALE: 1:2	SHEET 2 OF 4
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- NOTES:  
1. DIMS IN INCHES  
2. QTY: 1

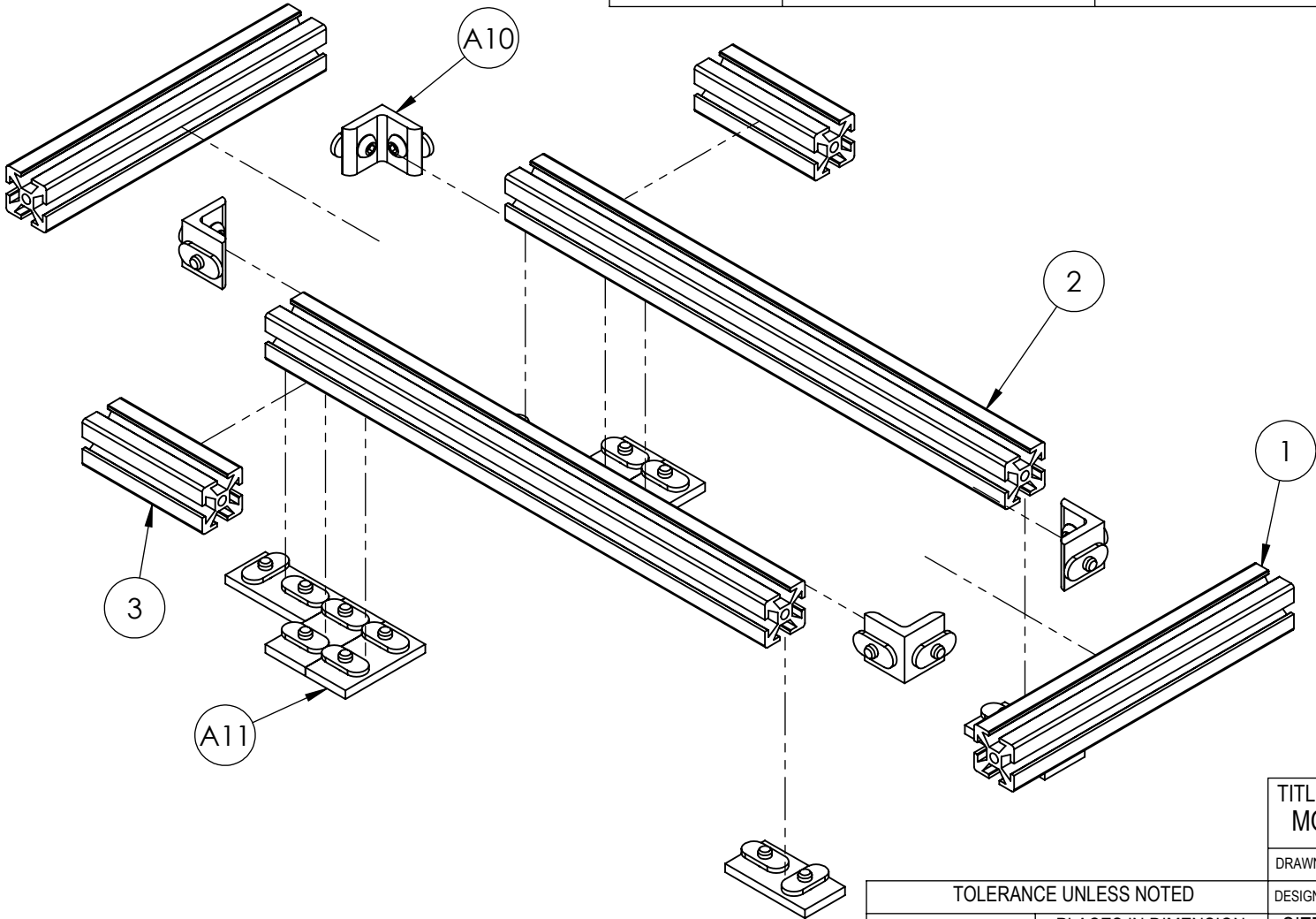
TITLE:  
MOBILE PLATFORM FRAME ASSEMBLY

DRAWN CATHERINE M. MARTINEZ

DESIGNED CATHERINE M. MARTINEZ

TOLERANCE UNLESS NOTED				DESIGNED CATHERINE M. MARTINEZ		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE A	DWG. NO. EML2322L-A-001	REV E
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5	SCALE: 2:3		SHEET 3 OF 4

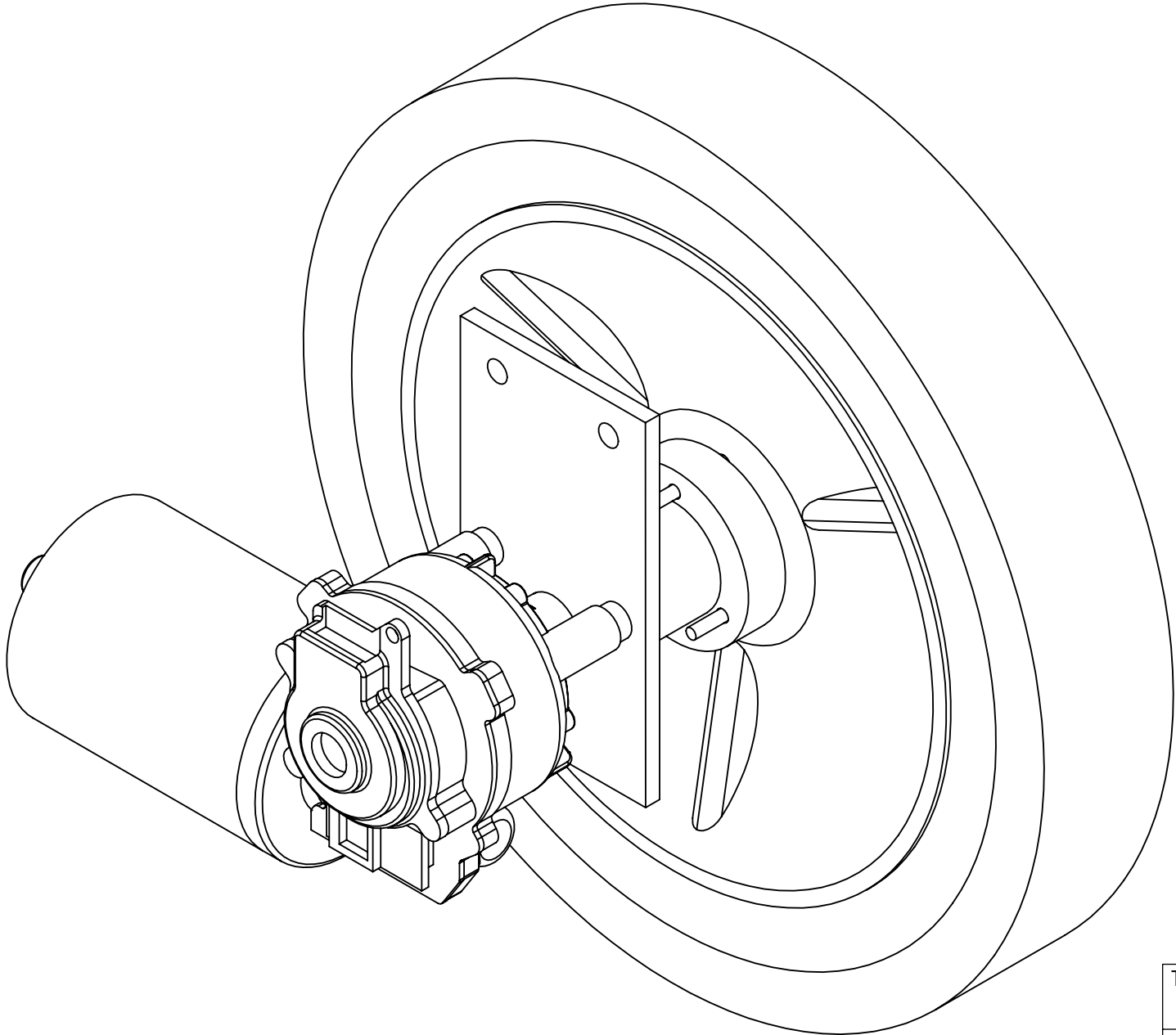
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EML2322L-0001	80/20 EXTRUSION - 7.0 in	2
2	EML2322L-0002	80/20 EXTRUSION - 12.5 in	2
3	EML2322L-0003	80/20 EXTRUSION - 3.0 in	2
A10	EML2322L-A-010	90-DEGREE BRACKET ASSEMBLY	4
A11	EML2322L-A-011	STRAIGHT BRACKET ASSEMBLY	8



NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 1

TITLE: MOBILE PLATFORM FRAME ASSEMBLY			
DRAWN CATHERINE M. MARTINEZ		DESIGNED CATHERINE M. MARTINEZ	
SIZE A	DWG. NO. EML2322L-A-001		REV E
SCALE: 1:3		SHEET 4 OF 4	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:  
1. DIMS IN INCHES  
2. QTY: 2

TITLE:  
WHEEL AND MOTOR ASSEMBLY

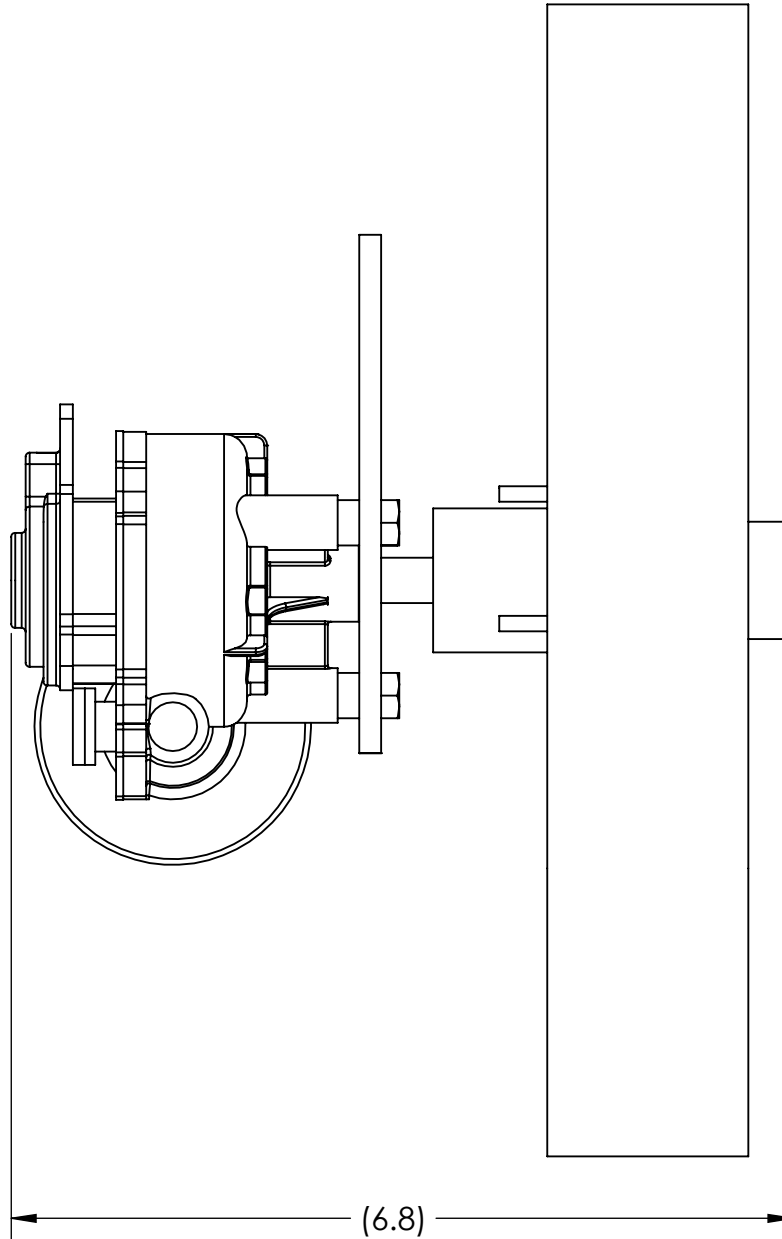
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-002	D

SCALE: 2:3		SHEET 1 OF 4
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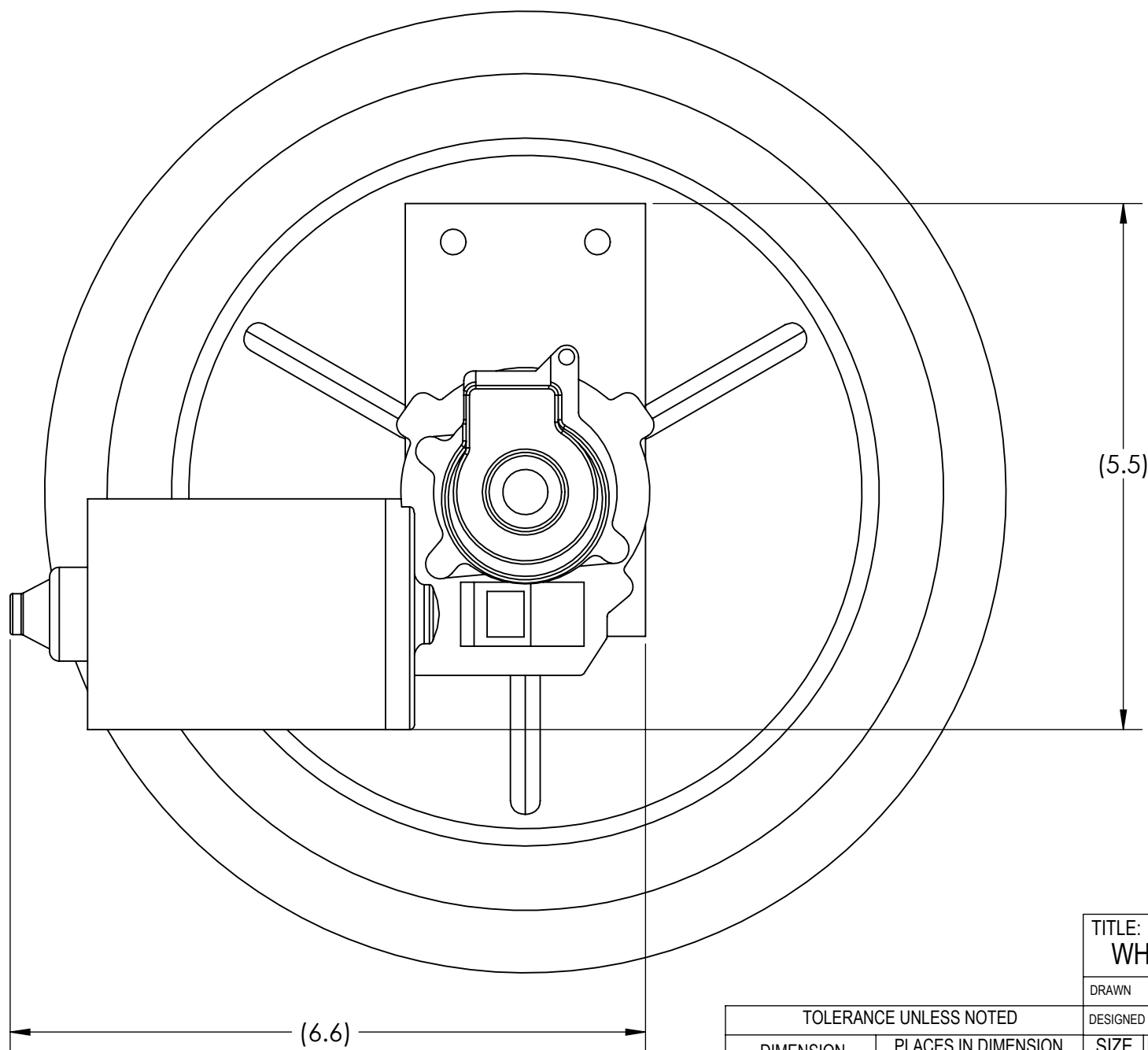


NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 2

TITLE: WHEEL AND MOTOR ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-002		D
SCALE: 3:5		SHEET 2 OF 4	

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	PLACES IN DIMENSION	0.0	0.00
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5





- NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 2

TITLE:  
**WHEEL AND MOTOR ASSEMBLY**

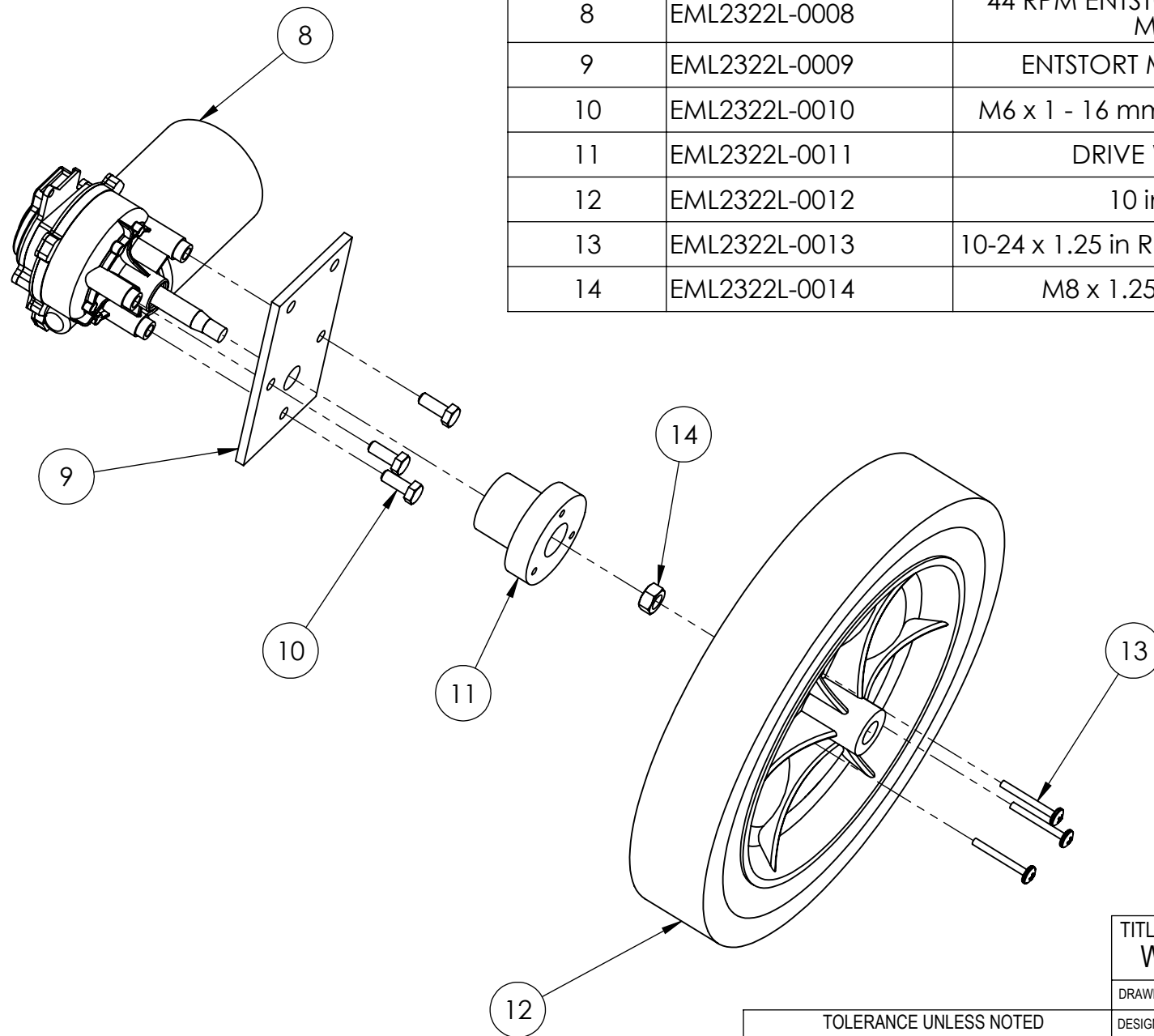
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
<b>A</b>	<b>EML2322L-A-002</b>	<b>D</b>

SCALE: 7:11		SHEET 3 OF 4
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	EML2322L-0008	44 RPM ENTSTORT RIGHT ANGLE MOTOR	1
9	EML2322L-0009	ENTSTORT MOTOR MOUNT	1
10	EML2322L-0010	M6 x 1 - 16 mm ENTSTORT SCREW	3
11	EML2322L-0011	DRIVE WHEEL HUB	1
12	EML2322L-0012	10 in WHEEL	1
13	EML2322L-0013	10-24 x 1.25 in ROUND HEAD SCREW	3
14	EML2322L-0014	M8 x 1.25 mm HEX NUT	1

NOTES:  
 1. DIMS IN INCHES  
 2. QTY: 2

TITLE:  
**WHEEL AND MOTOR ASSEMBLY**

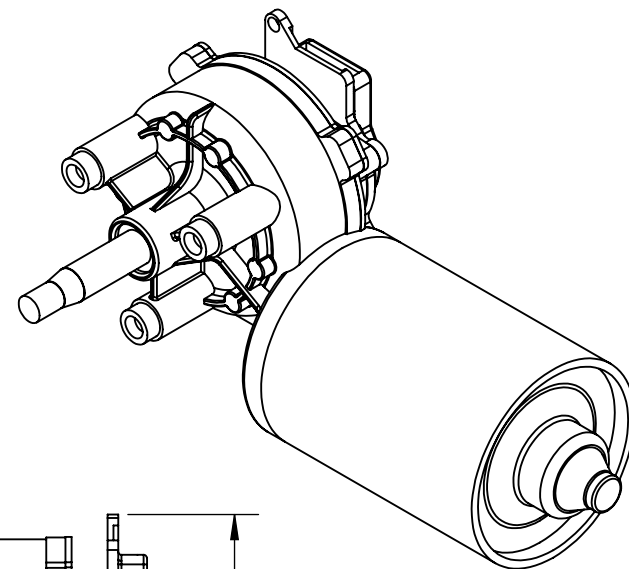
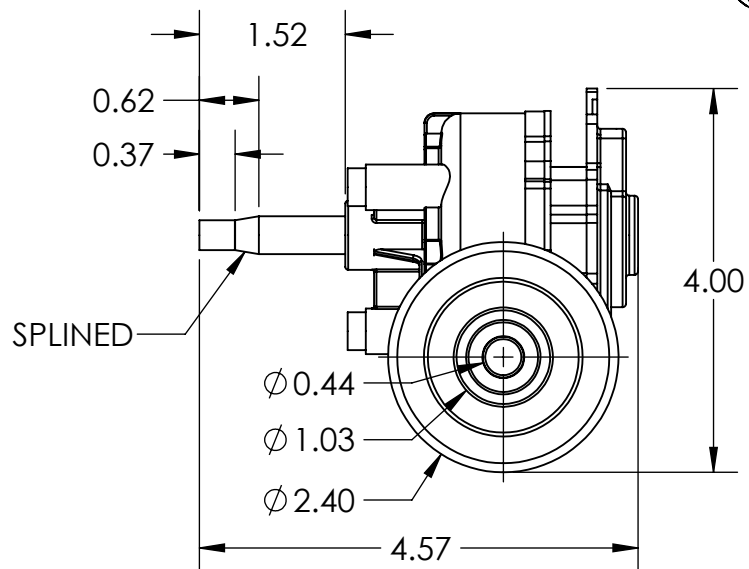
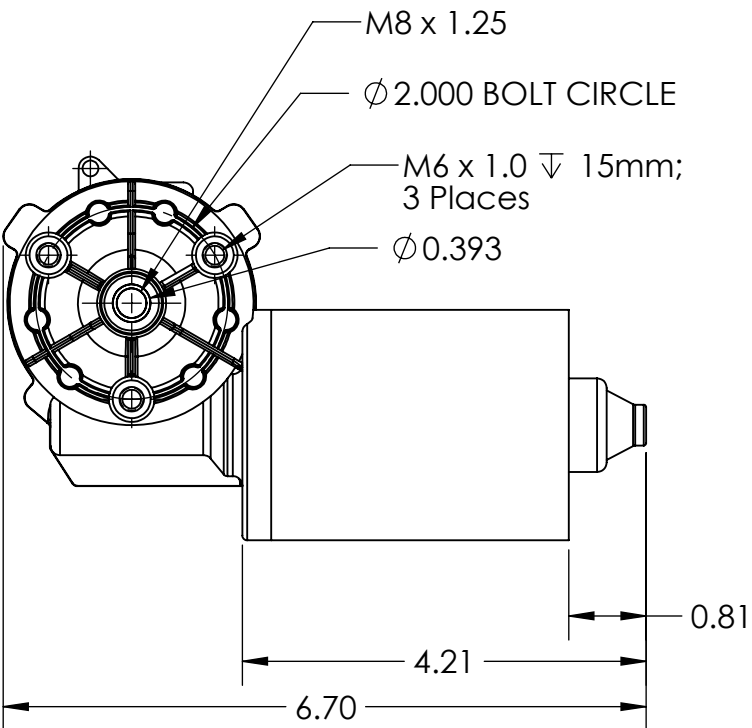
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

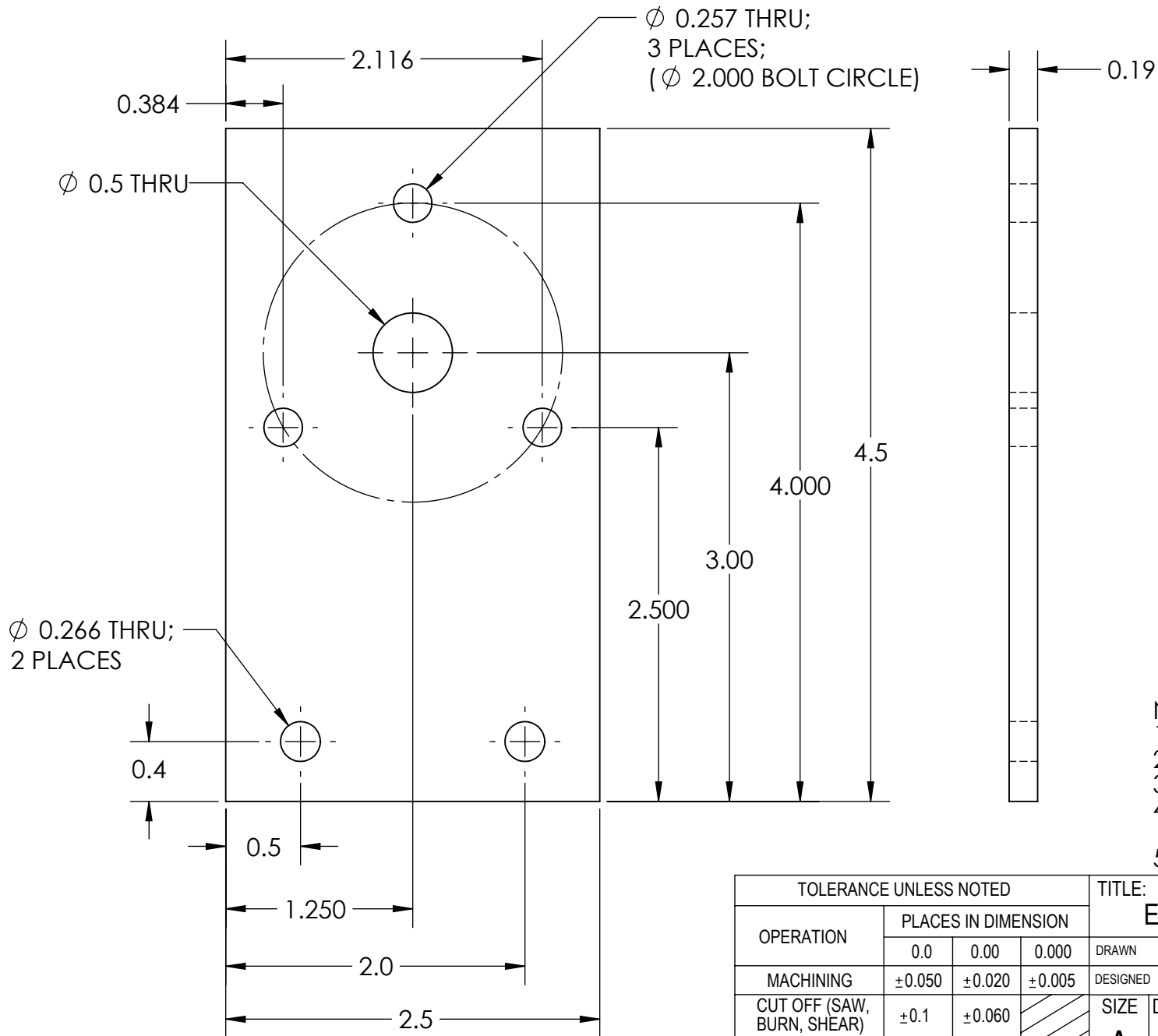
SIZE	DWG. NO.	REV
A	EML2322L-A-002	D

SCALE: 1:3	SHEET 4 OF 4
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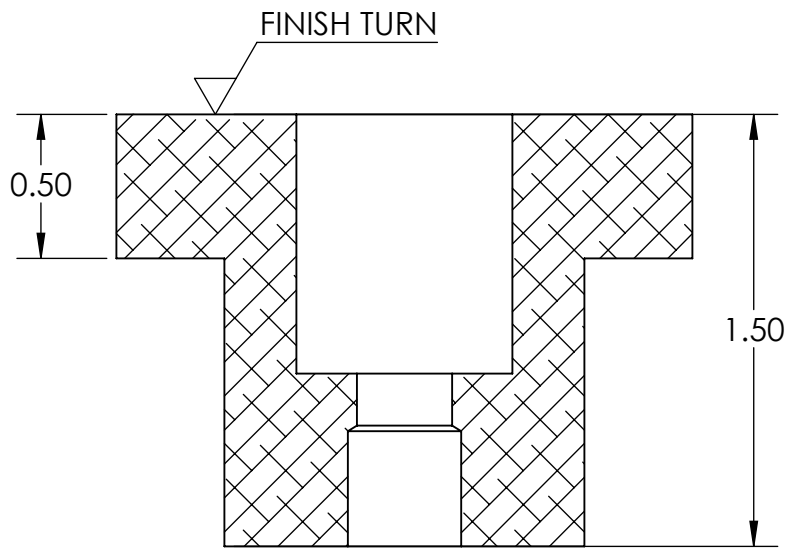
- NOTES:
1. DIMS IN INCHES
  2. QTY SPECIFIED IN BOM
  3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			44 RPM ENTSTORT RIGHT ANGLE MOTOR		
	0.0	0.00	0.000	DRAWN	J. DERSCH	
CALIPERS			±0.005	DESIGNED	ENTSTORT	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0008	A
PROTRACTOR	±10	±5	±2	SCALE: 1:2		SHEET 1 OF 1

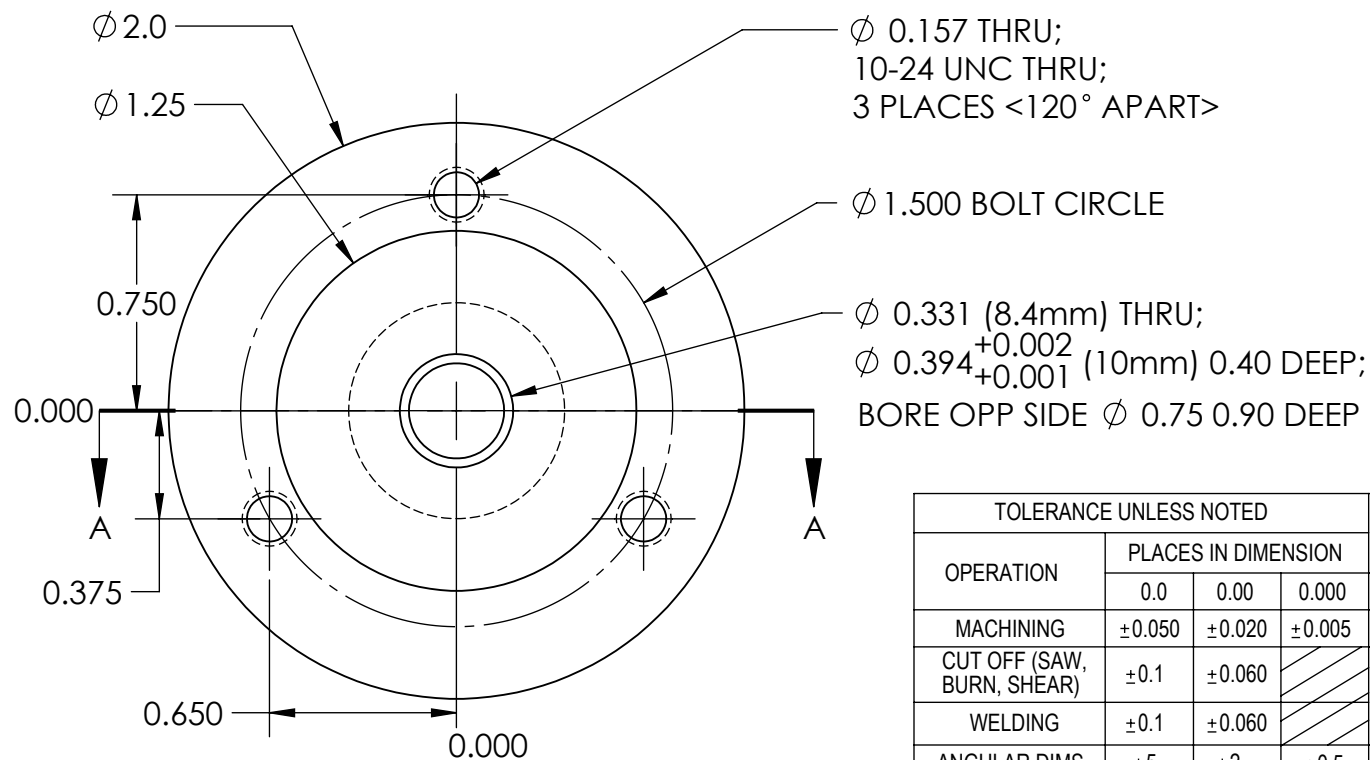
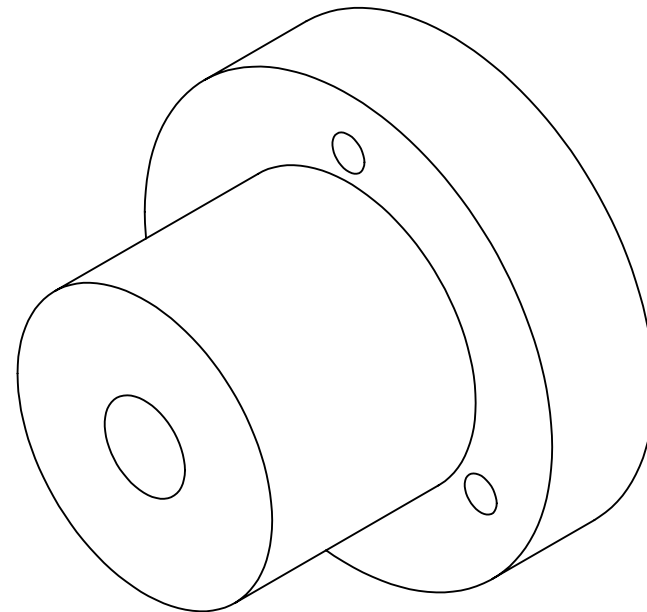


- NOTES:
1. QTY: 2
  2. ALL DIMS IN INCHES
  3. MATL: ALUMINUM
  4. UNFINISHED SURFACES UNLESS NOTED
  5. BREAK ALL EDGES

TOLERANCE UNLESS NOTED				TITLE: ENTSTORT MOTOR MOUNT			
OPERATION	PLACES IN DIMENSION						
	0.0	0.00	0.000	DRAWN      MARK YEN			
MACHINING	±0.050	±0.020	±0.005	DESIGNED      MARK YEN			
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. NO.		REV
WELDING	±0.1	±0.060		A	EML2322L-0009		E
ANGULAR DIMS	±5	±2	±0.5	SCALE: 1:1		SHEET 1 OF 1	

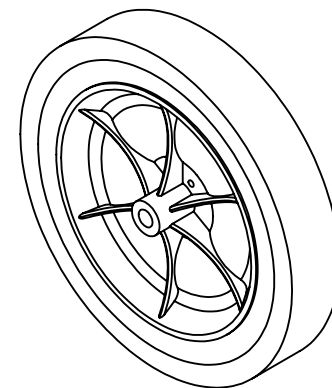
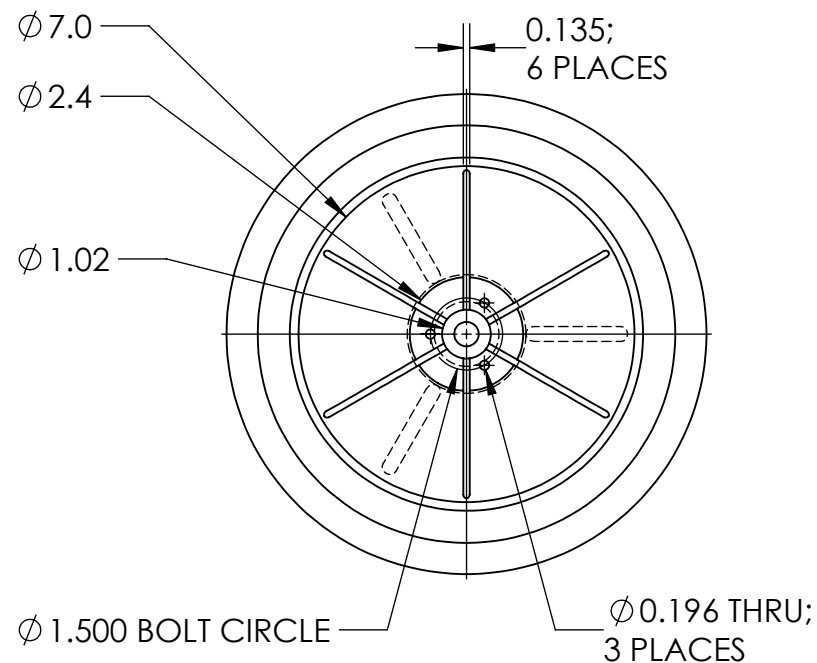
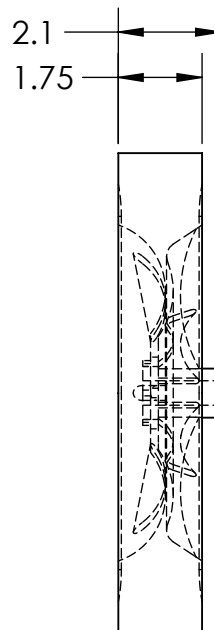
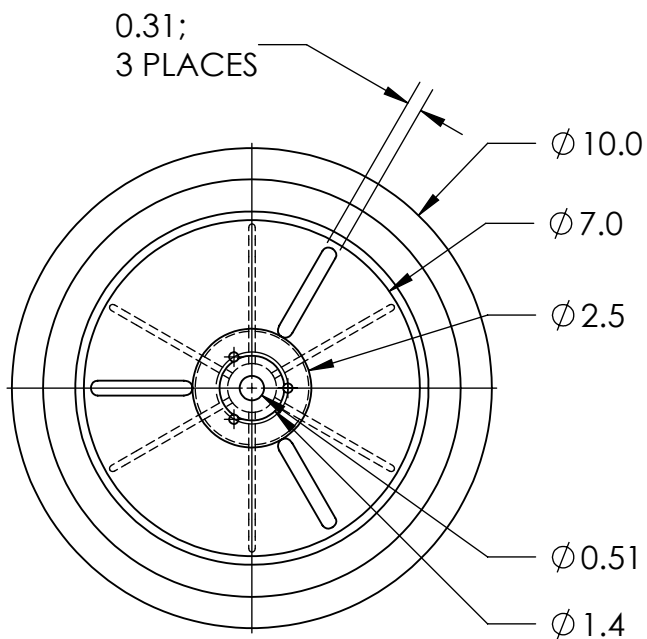


SECTION A-A



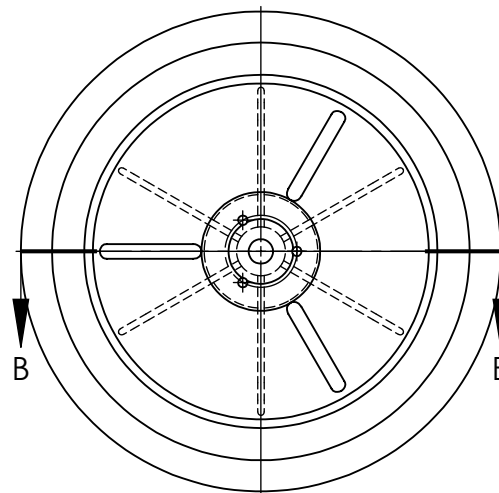
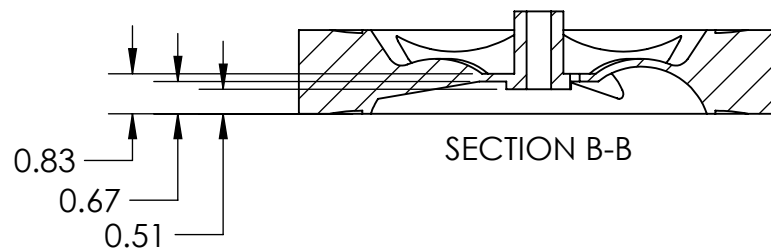
- NOTES:
1. QTY: 2
  2. ALL DIMS IN INCHES
  3. MATL: ALUMINUM
  4. FINISH NOTED SURFACE(S)
  5. BREAK ALL EDGES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			DRIVE WHEEL HUB		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	$\pm 0.050$	$\pm 0.020$	$\pm 0.005$	DESIGNED	MARK YEN	
CUT OFF (SAW, BURN, SHEAR)	$\pm 0.1$	$\pm 0.060$		SIZE	DWG. NO.	REV
WELDING	$\pm 0.1$	$\pm 0.060$		A	EML2322L-0011	E
ANGULAR DIMS	$\pm 5$	$\pm 2$	$\pm 0.5$	SCALE: 3:2	SHEET 1 OF 1	



- NOTES:
1. DIMS IN INCHES
  2. QTY SPECIFIED IN BOM
  3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			10 in WHEEL		
	0.0	0.00	0.000	DRAWN	J. DERSCH	
CALIPERS			±0.005	DESIGNED	ARNOLD	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0012	A
PROTRACTOR	±10	±5	±2	SCALE: 1:4		SHEET 1 OF 2



- NOTES:
1. DIMS IN INCHES
  2. QTY SPECIFIED IN BOM
  3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE: 10 in WHEEL		
MEASURING INSTRUMENT	PLACES IN DIMENSION			DRAWN J. DERSCH		
	0.0	0.00	0.000	DESIGNED ARNOLD		
CALIPERS	/	/	±0.005	SIZE	DWG. NO.	REV
PRECISION RULER	/	±0.015	/	A	EML2322L-0012	A
TAPE MEASURE	±0.030	/	/	SCALE: 1:4		
PROTRACTOR	±10	±5	±2	SHEET 2 OF 2		