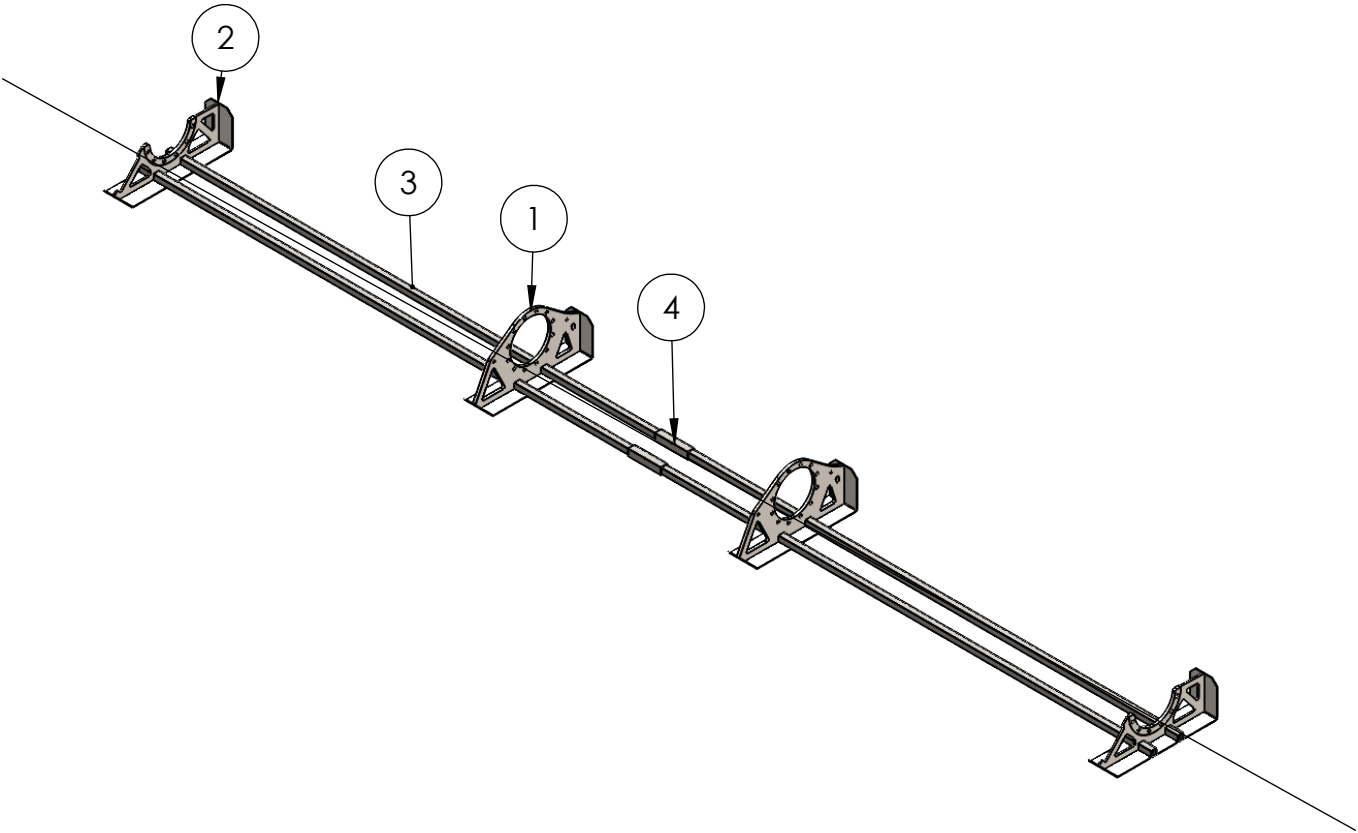


ITEM NO.	Description	QTY.
1	Inner Support	2
2	Outer Support	2
3	Crossbeam	4
4	Beam Connector	2

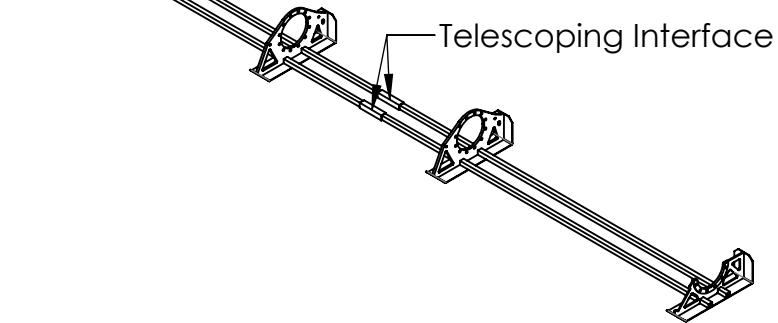


NAME		DATE
DRAWN		JK 2023-07-25
CHECKED		DAW -
COMMENTS:		Support Chassis Overview
UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN MM		
TOLERANCES:		
ANGULAR:		
MACH ± 0.5°   BEND ± 1°		
LINEAR:		
1 PLACE: ± 0.5   2 PLACE: ± 0.10		

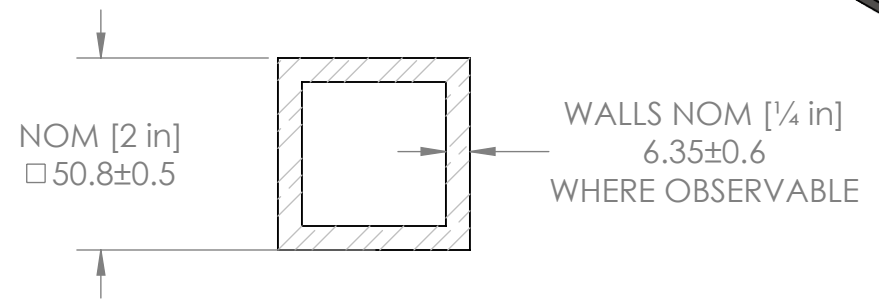
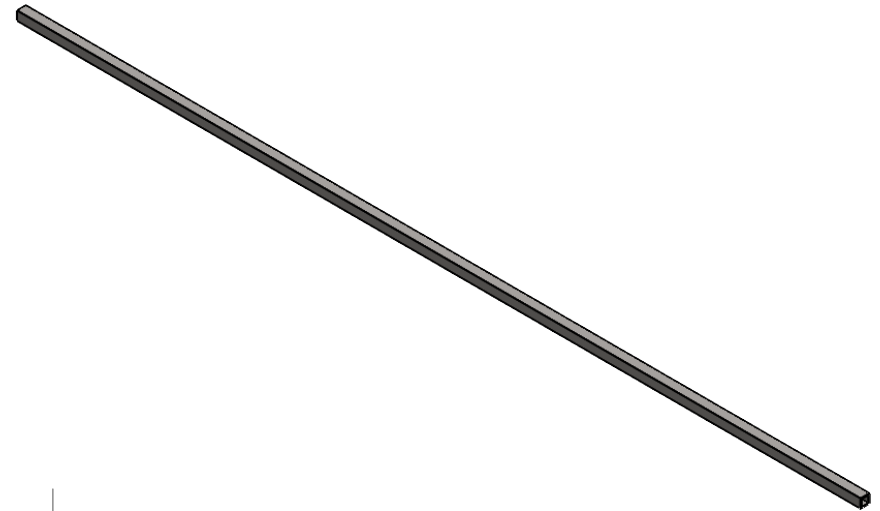
Team #4		
TITLE: Support Chassis		
SIZE	DWG. NO.	REV
A		-
SCALE: 1:50	DO NOT SCALE DRAWING	SHEET 1 OF 5

MATERIAL
316 & 304 Stainless Steel
FINISH
WEIGHT: 381 kg

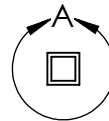
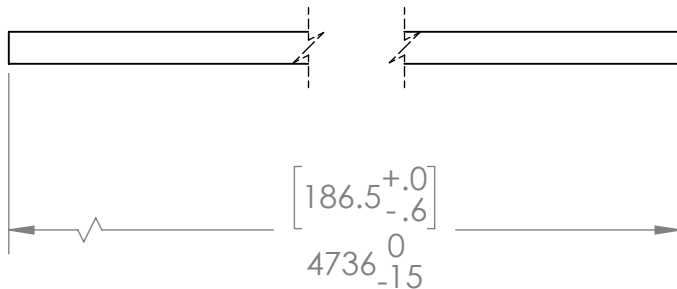
CROSS SECTION NOT TO EXCEED MMC OF  $\square 52.0$   
WITHIN 155 mm OF TELESOPING END



Chassis  
SCALE 1 : 75



DETAIL A  
SCALE 1 : 2



Crossbeam to be Fabricated using  
ASTM A554 Square Tubing in AISI 304,  
Nominal Dimensions [2 in / 2 in / 0.25 in]

MATERIAL	304 Stainless Steel
FINISH	
WEIGHT:	84 kg

	NAME	DATE
DRAWN	JK	2023-07-25
CHECKED	DW	-
COMMENTS:	Tolerances per ASTM A554 for Stainless Steel square tubing	
UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN MM		
TOLERANCES:		
ANGULAR:		
MACH $\pm 0.5^\circ$   BEND $\pm 1^\circ$		
LINEAR:		
1 PLACE: $\pm 0.5$   2 PLACE: $\pm 0.10$		

**Team #4**

TITLE:

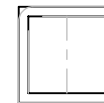
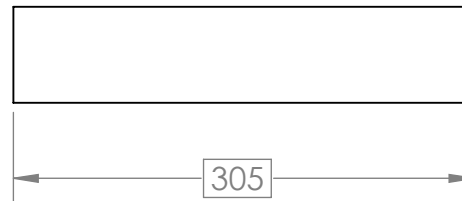
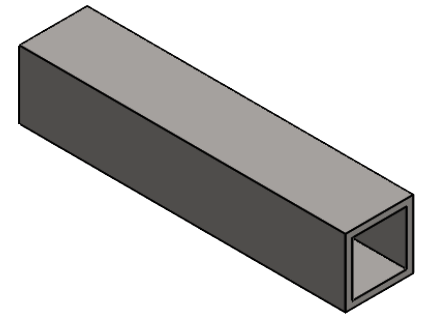
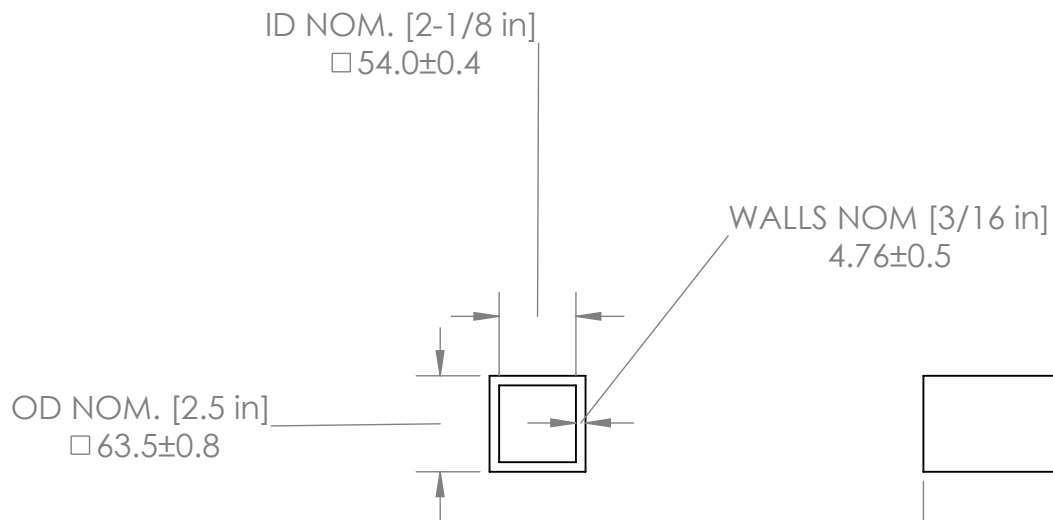
Crossbeam

SIZE  
**A**

DWG. NO.

REV  
-

SCALE: 1:12 DO NOT SCALE DRAWING SHEET 2 OF 5



Connector to be Fabricated using  
ASTM A554 Square Tubing in AISI 304,  
Nominal Dimensions [2.5 in / 2.5 in / 0.188 in]

MATERIAL	304 Stainless Steel
FINISH	
WEIGHT:	3.5 kg

	NAME	DATE
DRAWN	JK	2023-07-25
CHECKED	DAW	-
COMMENTS: Tolerances per ASTM A554 for Stainless Steel square tubing		
UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN MM		
TOLERANCES: ANGULAR: MACH $\pm 0.5^\circ$   BEND $\pm 1^\circ$ LINEAR: 1 PLACE: $\pm 0.5$   2 PLACE: $\pm 0.10$		

**Team #4**

TITLE:

Beam  
Connector

SIZE  
**A**

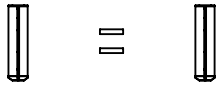
DWG. NO.

REV  
-

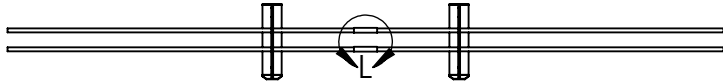
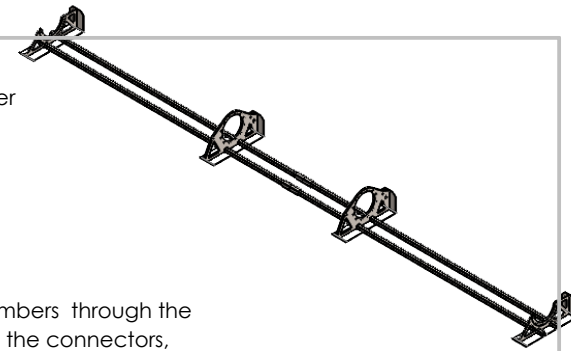
SCALE: 1:5

DO NOT SCALE DRAWING

SHEET 3 OF 5

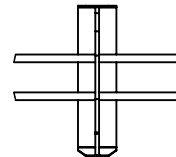
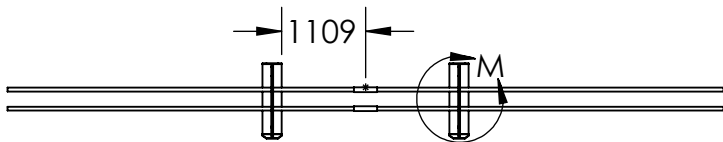


Begin with the inner supports and two connectors



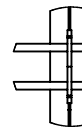
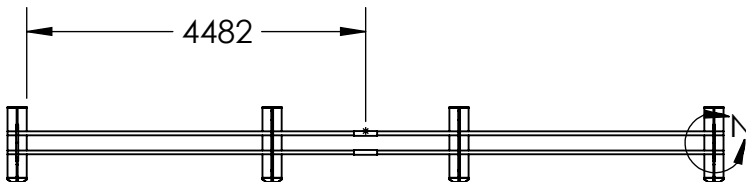
Feed the crossmembers through the inner supports into the connectors, once they are positioned, fillet weld the edges of the connector

DETAIL L  
SCALE 1 : 50



Space the inner supports around the crossbeam assembly and secure them in place by fillet welding the crossbeams to the skid-plates

DETAIL M  
SCALE 1 : 50



Run the crossbeams through the outer supports, before positioning them and securing with fillet welds.

DETAIL N  
SCALE 1 : 50

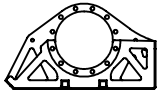
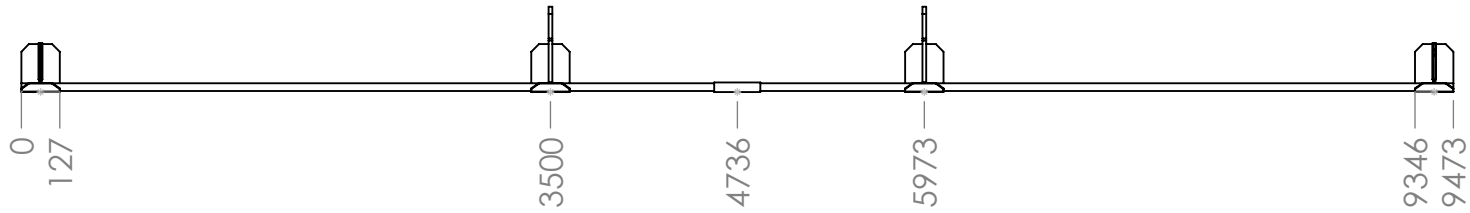
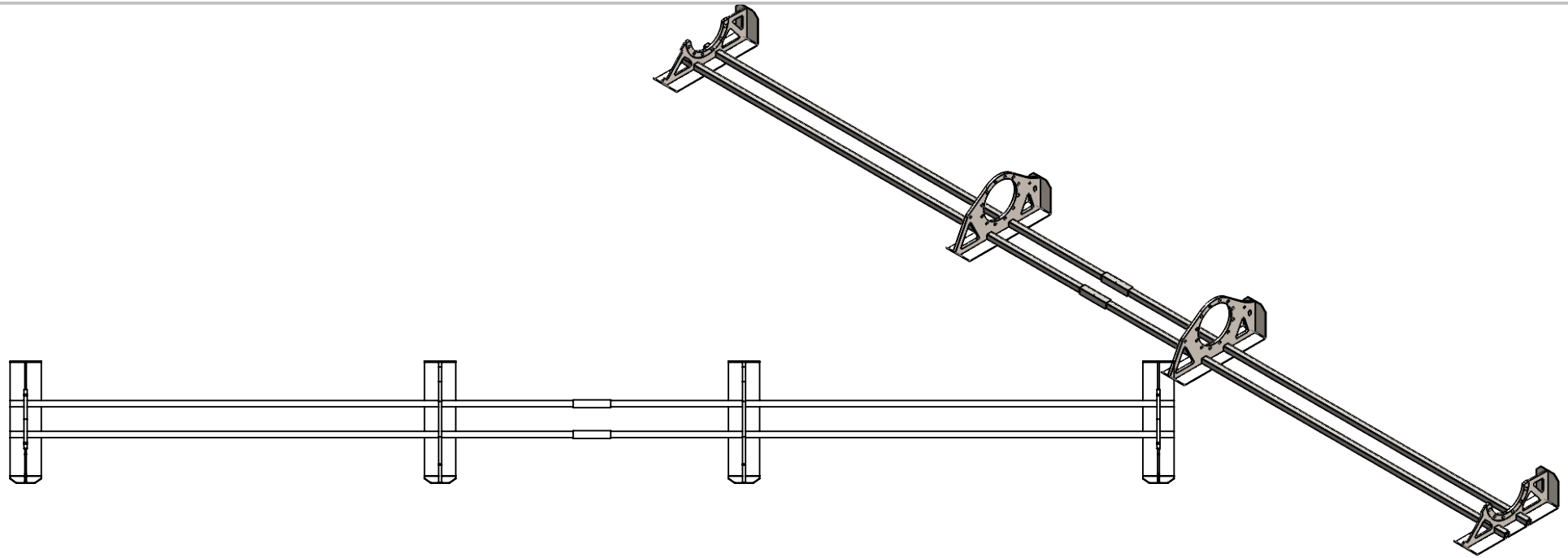
MATERIAL
316 & 314 Stainless Steel
FINISH
WEIGHT:

NAME	DATE
DRAWN JK	2023-07-25
CHECKED -	-
COMMENTS: To be used for referenced of Support and Beam Connector Location	
UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN MM	
TOLERANCES: ANGULAR: MACH $\pm 0.5^\circ$   BEND $\pm 1^\circ$ LINEAR: 1 PLACE: $\pm 0.5$   2 PLACE: $\pm 0.10$	

**Team #4**

TITLE:  
**Chassis Assembly  
Process**

SIZE	DWG. NO.	REV
<b>A</b>		-
SCALE: 1:100		DO NOT SCALE DRAWING
SHEET 4 OF 5		



NAME      DATE

DRAWN      JK      2023-07-25

CHECKED      -      -

COMMENTS:  
To be used for referenced of  
Support and Beam Connector  
Location

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:  
ANGULAR:  
MACH  $\pm 0.5^\circ$  | BEND  $\pm 1^\circ$   
LINEAR:  
1 PLACE:  $\pm 0.5$  | 2 PLACE:  $\pm 0.10$

MATERIAL  
316 & 314 Stainless Steel

FINISH

WEIGHT:

**Team #4**

TITLE:  
**Support and  
Connector Location**

SIZE  
**A**

DWG. NO.

REV  
-

SCALE: 1:50    DO NOT SCALE DRAWING    SHEET 5 OF 5