

4

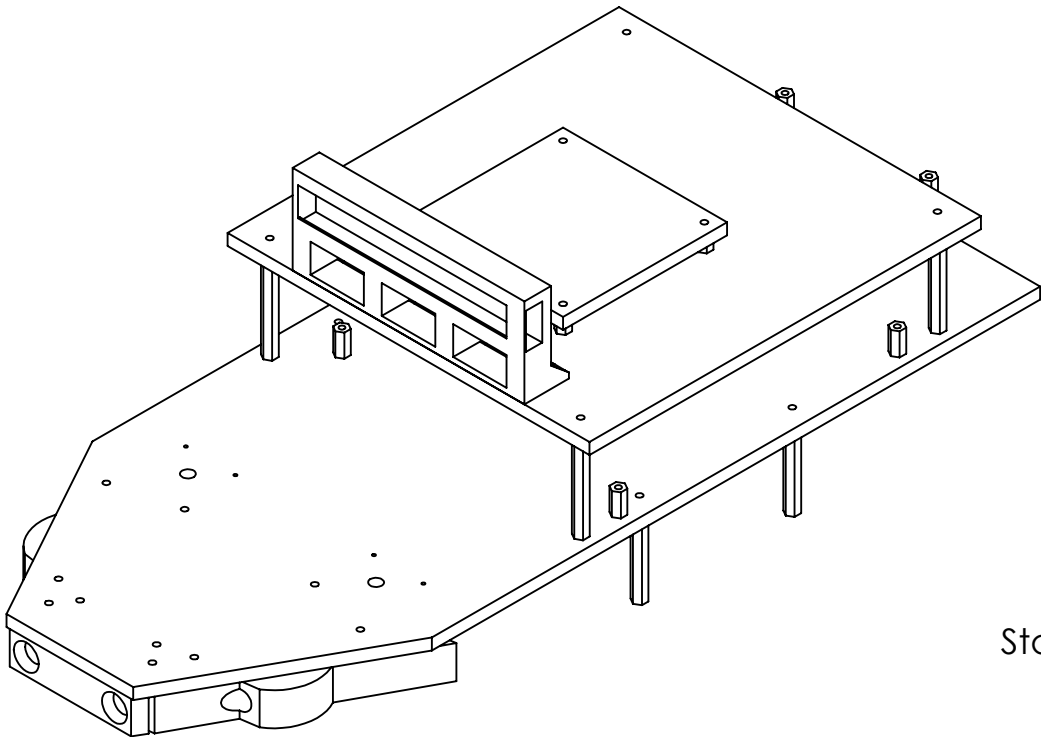
3

2

1

B

B



Standoff 4-40 0.250" X 0.50"

Standoff 4-40 0.250" X 0.25"

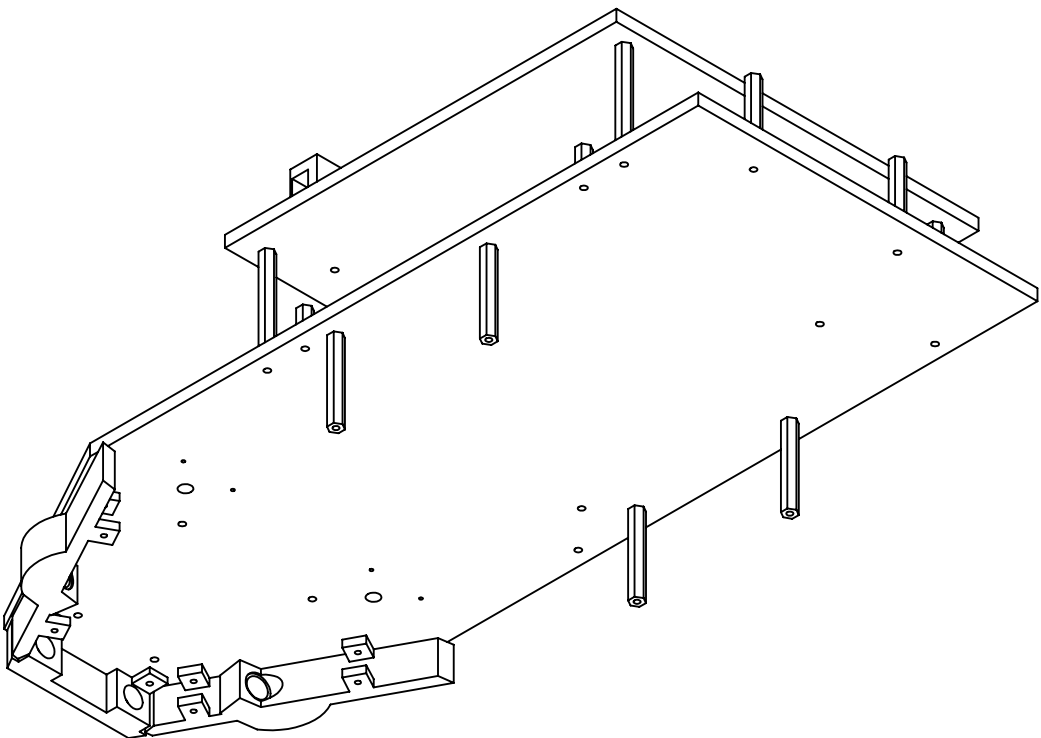
Standoff 4-40 0.250" X 2.00"

Standoff 4-40 0.250" X 1.50"

Standoff 6-32 0.250" X 1.75"

A

A



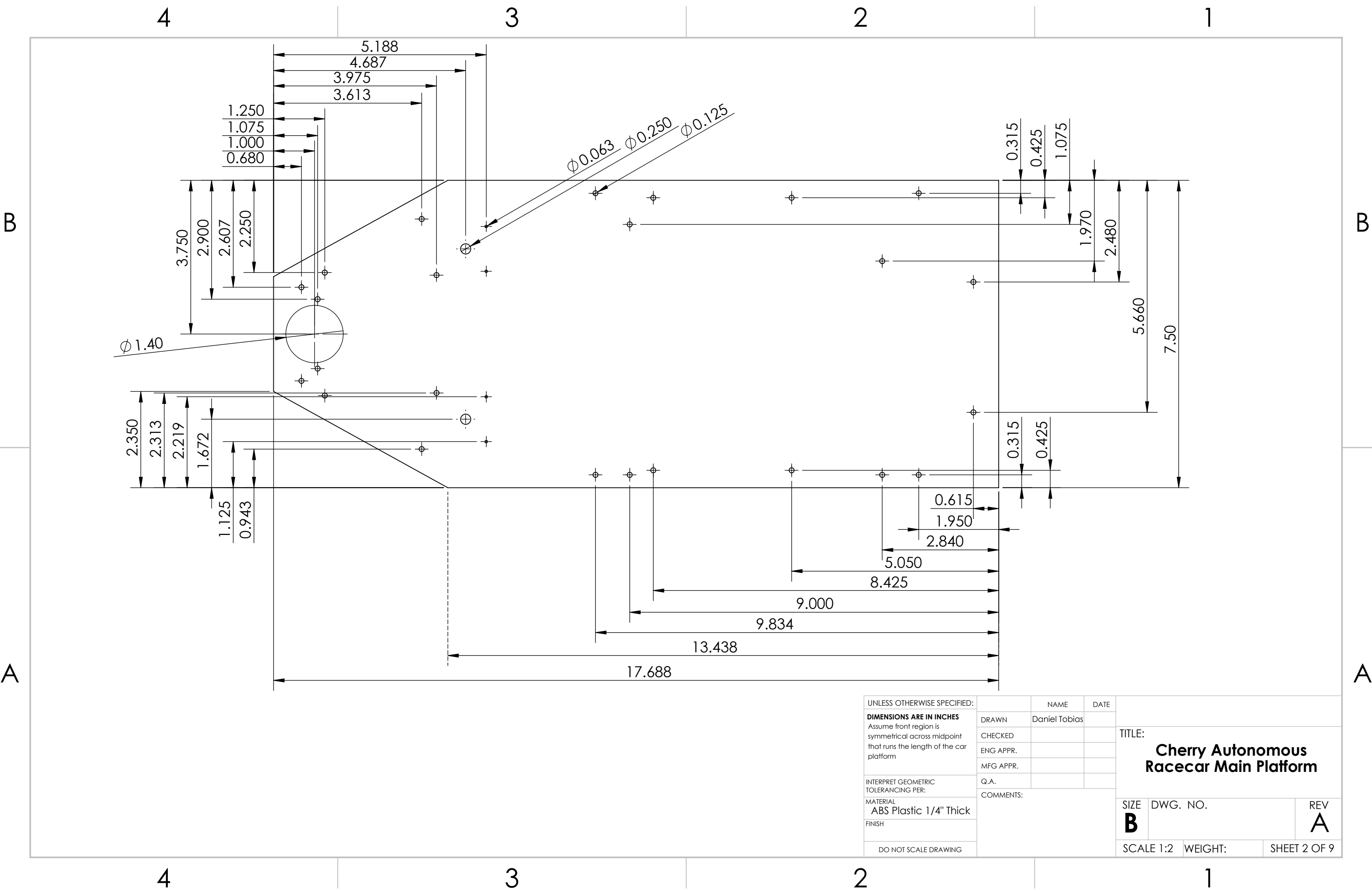
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Assembly		
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias				
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS:		
MATERIAL ABS Plastic 1/4" Thick						
FINISH				SIZE B	DWG. NO.	REV A
DO NOT SCALE DRAWING				SCALE 1:3	WEIGHT:	SHEET 1 OF 9

4

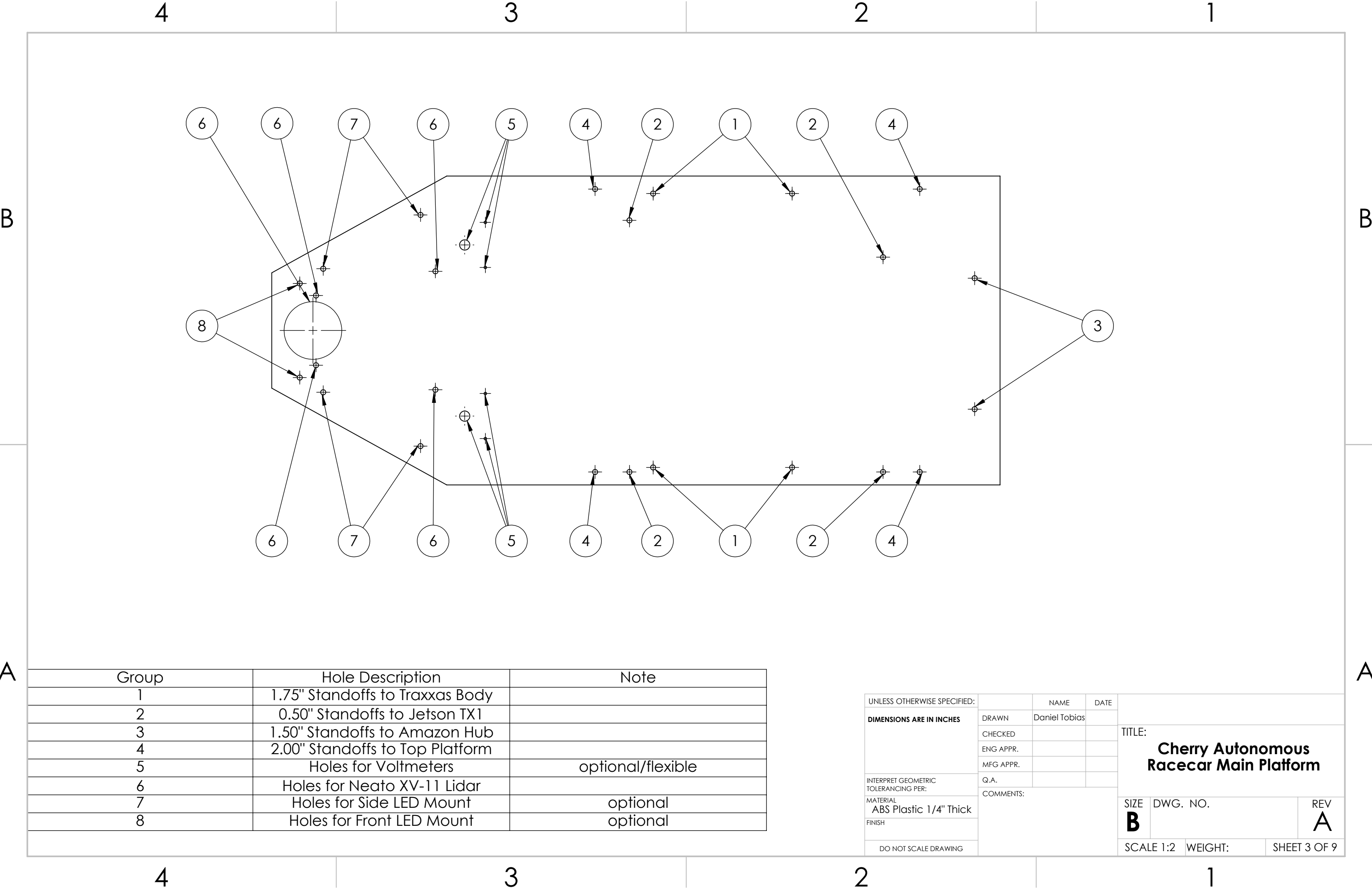
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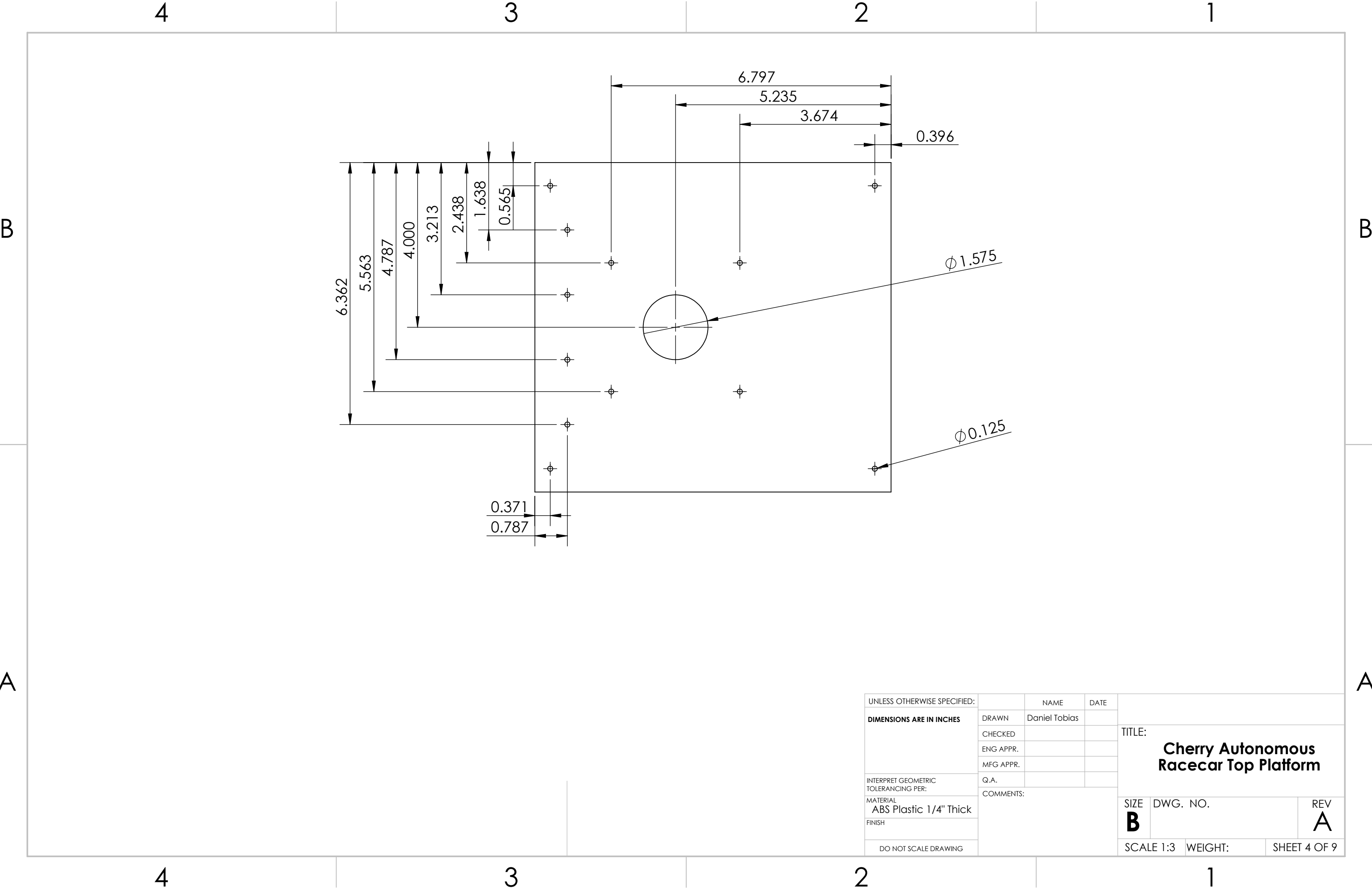


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES Assume front region is symmetrical across midpoint that runs the length of the car platform INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL ABS Plastic 1/4" Thick FINISH DO NOT SCALE DRAWING		NAME	DATE	TITLE: Cherry Autonomous Racecar Main Platform		
	DRAWN	Daniel Tobias				
	CHECKED					
	ENG APPR.					
	MFG APPR.			COMMENTS:		
	Q.A.					
				SIZE B	DWG. NO.	REV A
				SCALE 1:2	WEIGHT:	SHEET 2 OF 9



Group	Hole Description	Note
1	1.75" Standoffs to Traxxas Body	
2	0.50" Standoffs to Jetson TX1	
3	1.50" Standoffs to Amazon Hub	
4	2.00" Standoffs to Top Platform	
5	Holes for Voltmeters	optional/flexible
6	Holes for Neato XV-11 Lidar	
7	Holes for Side LED Mount	optional
8	Holes for Front LED Mount	optional

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div>TITLE:</div> <div>Cherry Autonomous Racecar Main Platform</div>		
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias				
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			<div>SIZE</div> <div>B</div> <div>DWG. NO.</div> <div>REV</div> <div>A</div>		
MATERIAL	COMMENTS:					
ABS Plastic 1/4" Thick						
FINISH						
DO NOT SCALE DRAWING		SCALE 1:2			WEIGHT:	SHEET 3 OF 9



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Top Platform		
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias				
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS:		
MATERIAL ABS Plastic 1/4" Thick						
FINISH						
DO NOT SCALE DRAWING				SIZE B	DWG. NO.	REV A
				SCALE 1:3	WEIGHT:	SHEET 4 OF 9

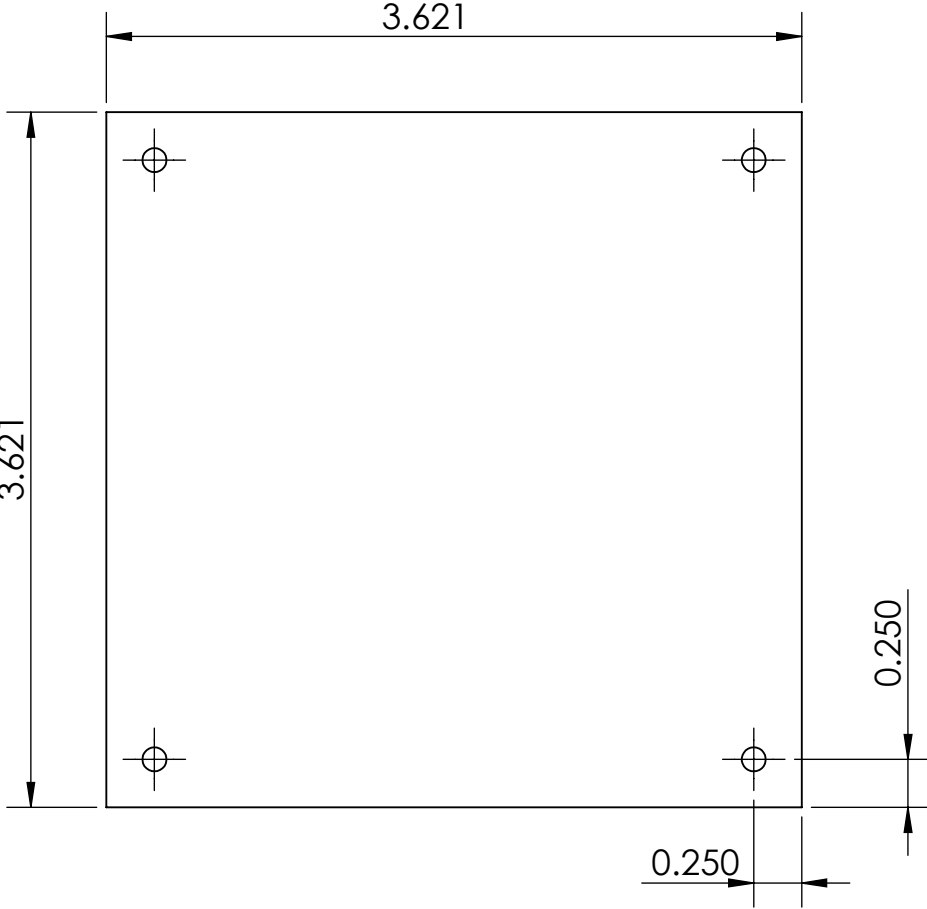
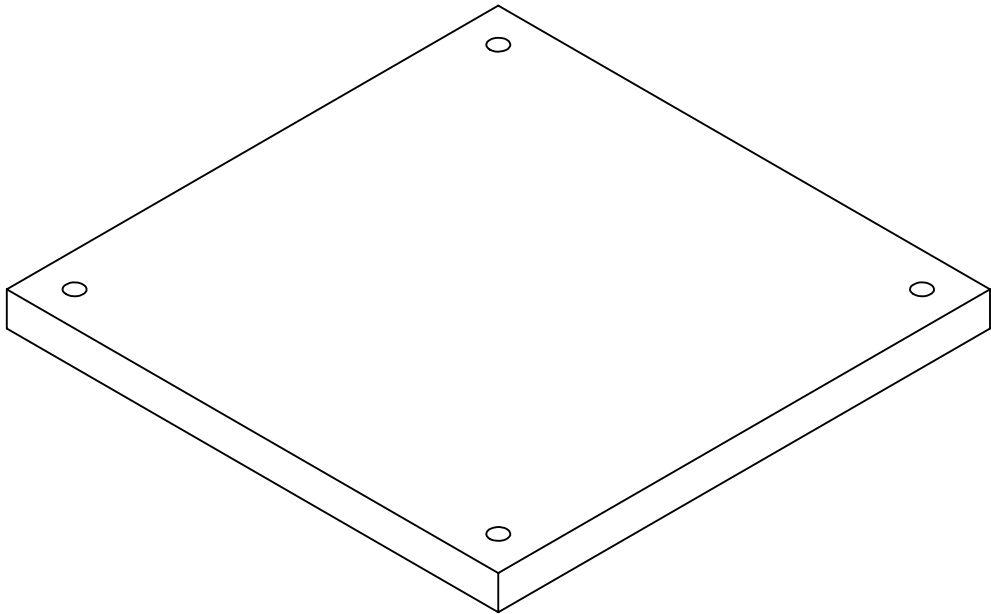
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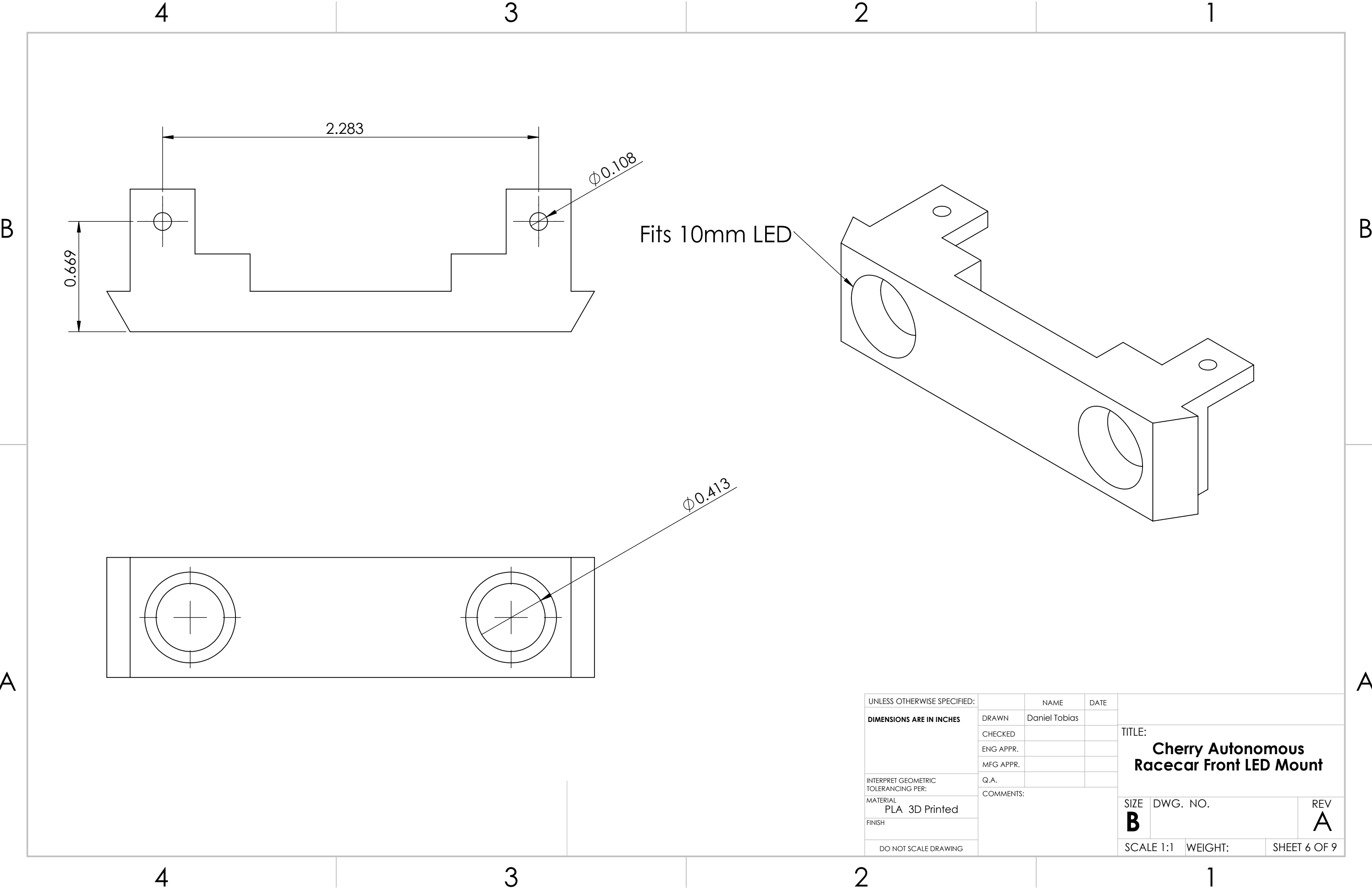
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Webcam Platform					
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias							
	CHECKED								
	ENG APPR.								
	MFG APPR.								
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS:					
MATERIAL ABS Plastic 1/4" Thick									
FINISH									
DO NOT SCALE DRAWING				SIZE B	DWG. NO.	REV A			
				SCALE 1:1	WEIGHT:	SHEET 5 OF 9			

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1



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Front LED Mount		
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias				
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS:		
MATERIAL PLA 3D Printed						
FINISH						
DO NOT SCALE DRAWING		SIZE B	DWG. NO.		REV A	
		SCALE 1:1	WEIGHT:	SHEET 6 OF 9		

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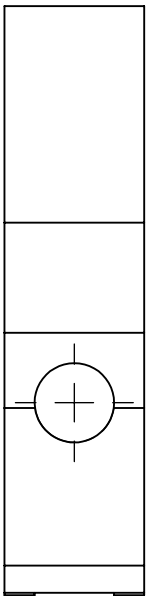
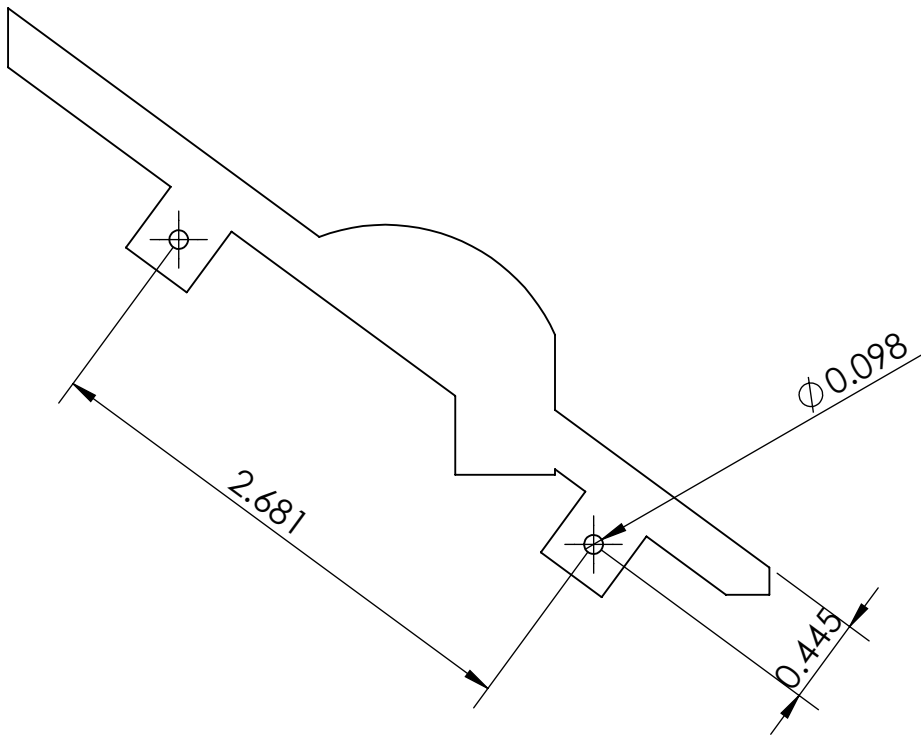
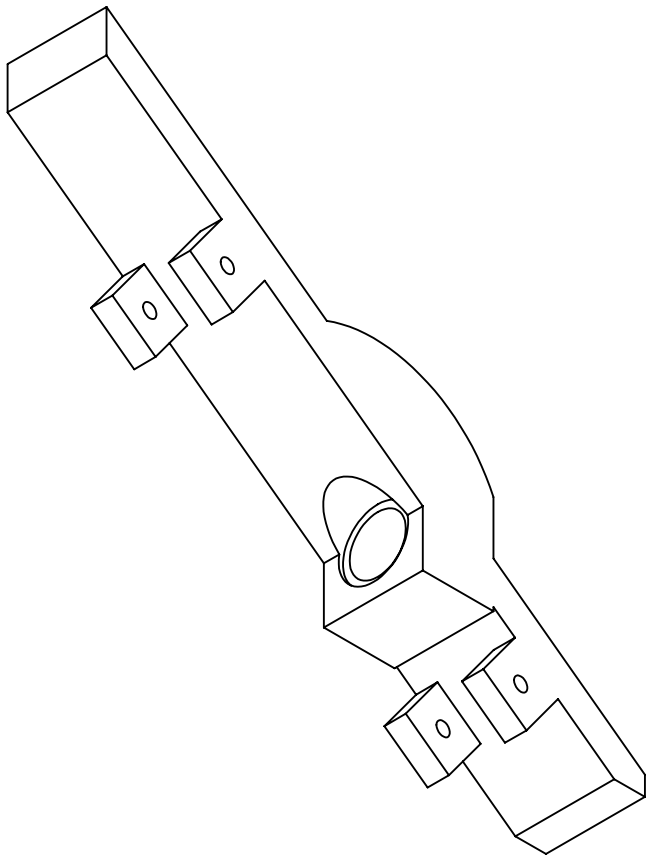
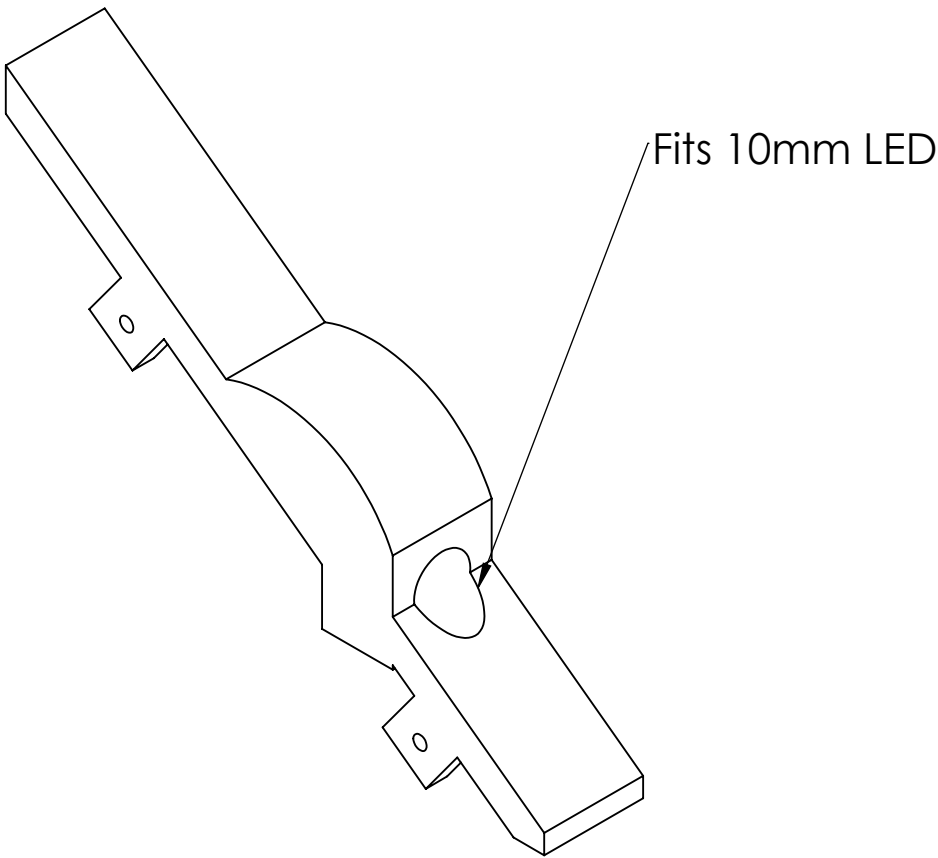
1

B

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A

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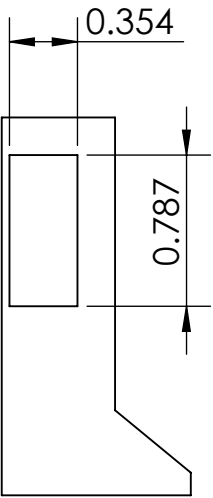
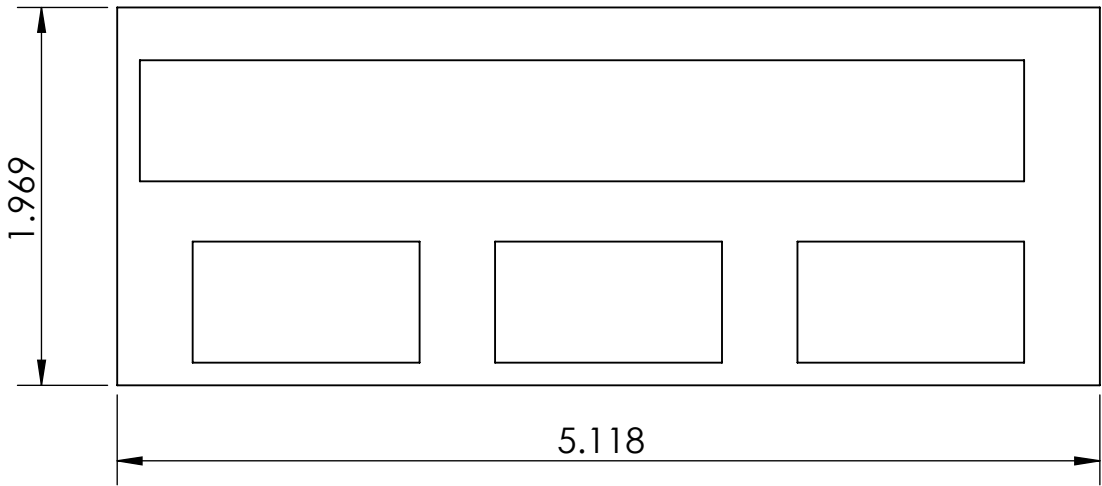
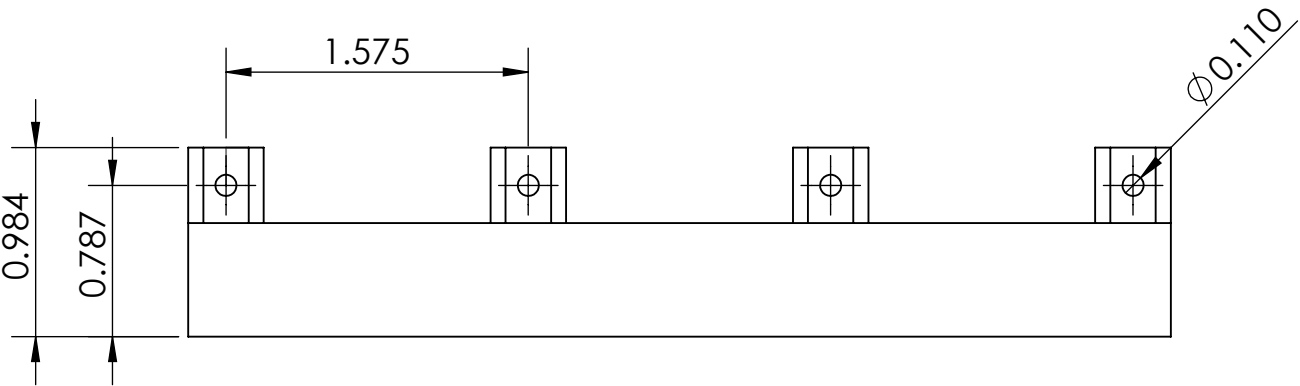
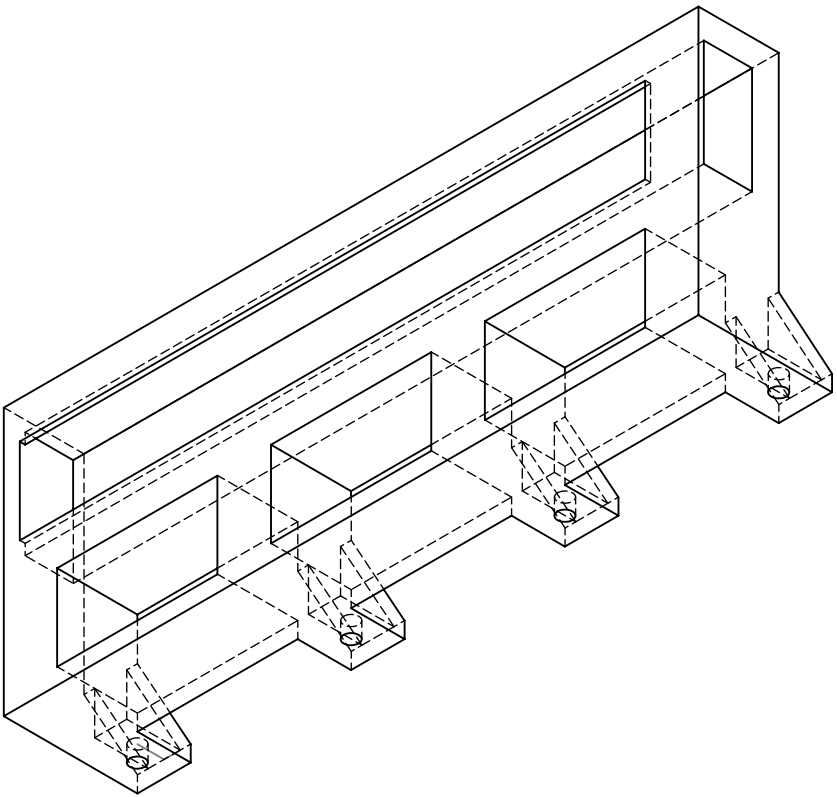
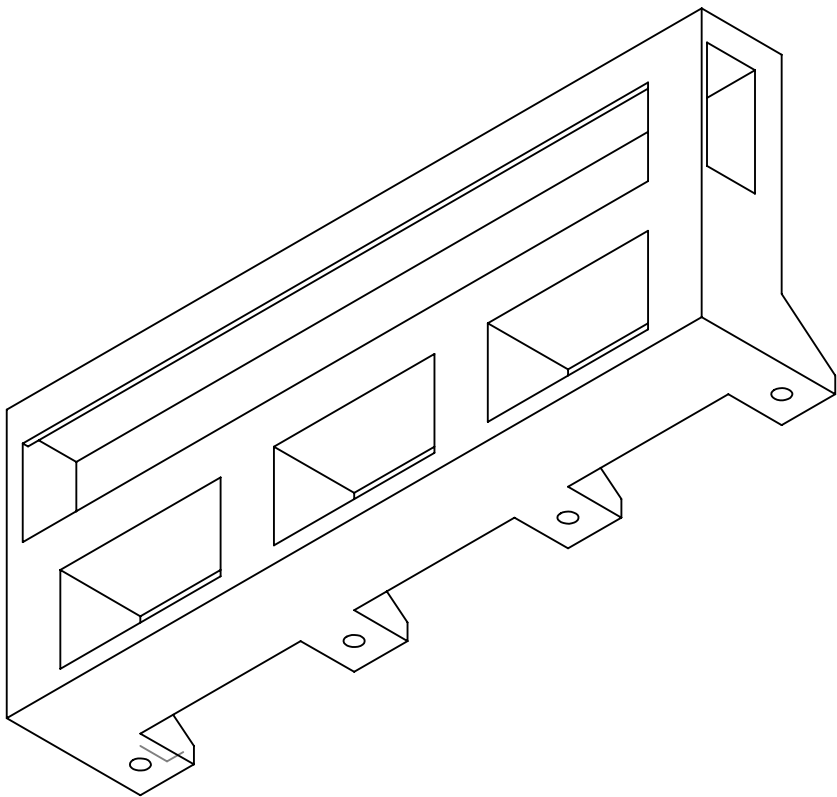
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Side LED Mount		
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias				
Holes Intentionally smaller to compensate for 3D Printing	CHECKED					
INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.					
MATERIAL PLA 3D Printed	MFG APPR.			REV A		
FINISH	Q.A.					
DO NOT SCALE DRAWING	COMMENTS:			SIZE B	DWG. NO.	SHEET 7 OF 9
				SCALE 1:1	WEIGHT:	

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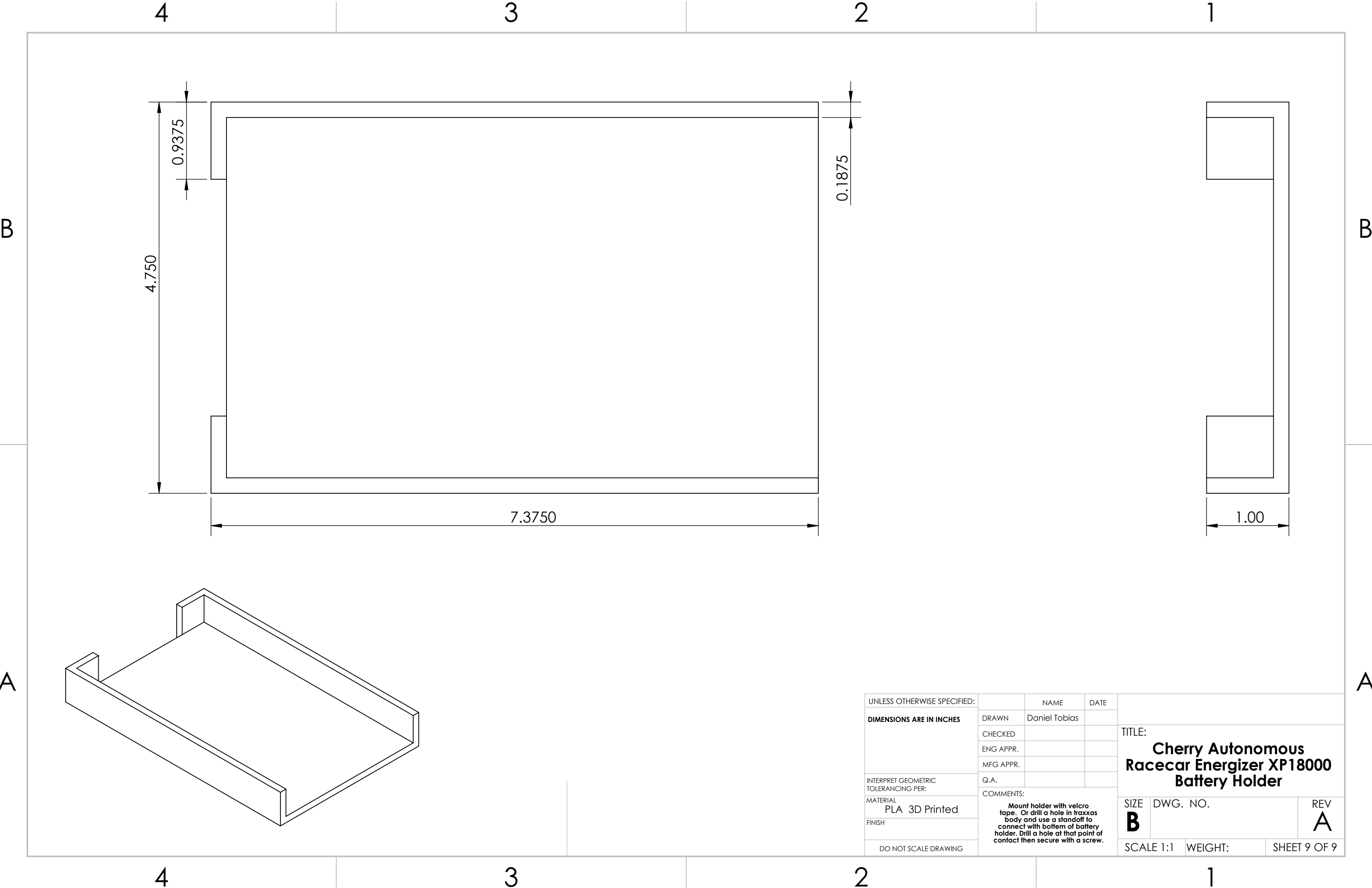
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Intel RealSense R200 Mount					
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias							
	CHECKED								
	ENG APPR.								
	MFG APPR.								
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			REV A					
MATERIAL PLA 3D Printed	COMMENTS:								
FINISH									
DO NOT SCALE DRAWING									
				SIZE B	DWG. NO.				
				SCALE 1:1		WEIGHT:		SHEET 8 OF 9	

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1



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Cherry Autonomous Racecar Energizer XP18000 Battery Holder		
DIMENSIONS ARE IN INCHES	DRAWN	Daniel Tobias				
	CHECKED					
	ENG APPR.					
	MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE B		
MATERIAL	COMMENTS:					
PLA 3D Printed	Mount holder with velcro tape. Or drill a hole in traxxas body and use a standoff to connect with bottom of battery holder. Drill a hole at that point of contact then secure with a screw.					
FINISH						
DO NOT SCALE DRAWING				SCALE 1:1	WEIGHT:	REV A
				SHEET 9 OF 9		