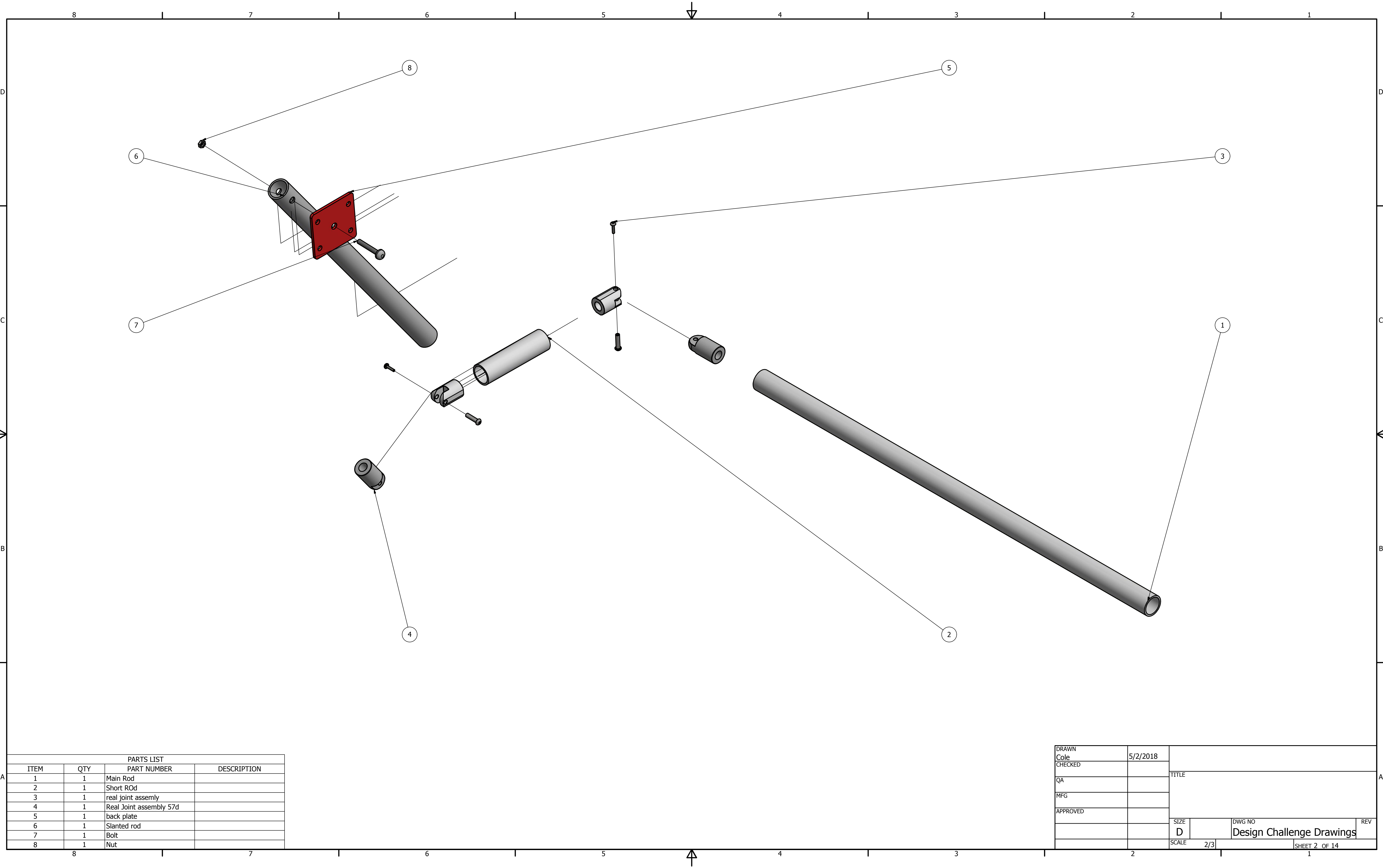
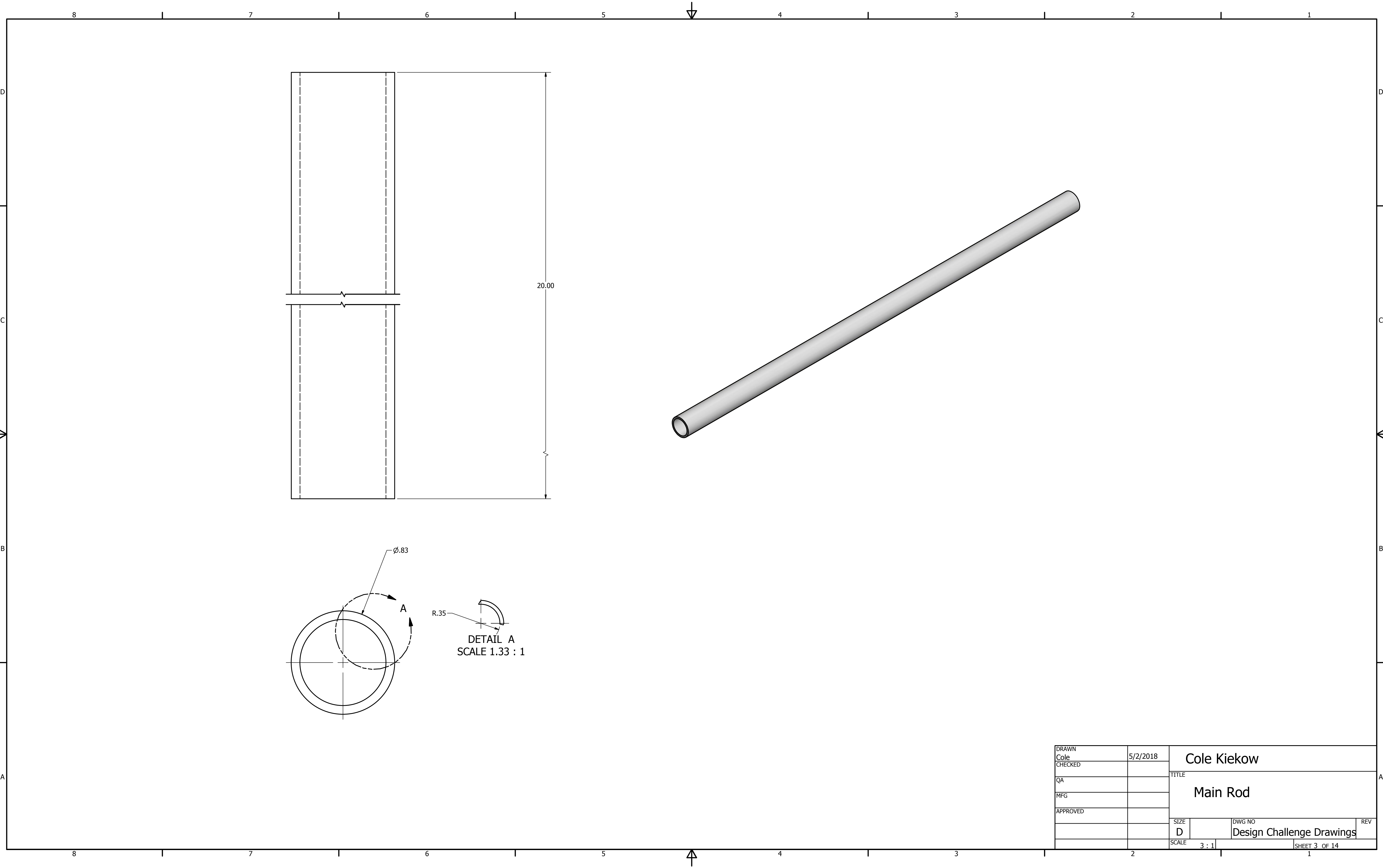


DRAWN	5/2/2018	Cole Kiekow		
Cole				
CHECKED				
QA				
MFG				
APPROVED		Main Assembly		
		SIZE	DWG NO	REV
		D	Design Challenge Drawings	
		SCALE	2/3	SHEET 1 OF 14

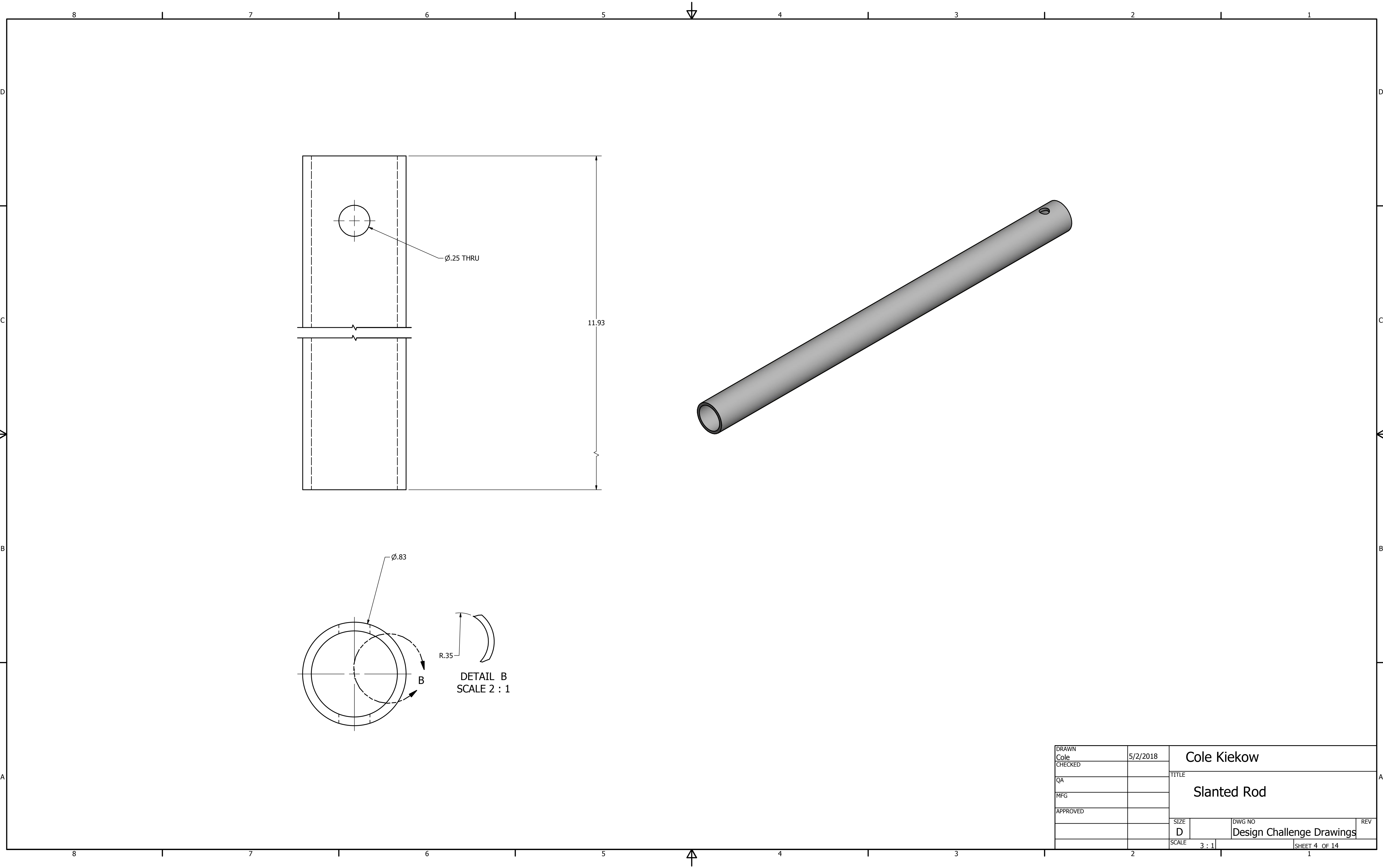


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	Main Rod	
2	1	Short ROD	
3	1	real joint assembly	
4	1	Real Joint assembly 57d	
5	1	back plate	
6	1	Slanted rod	
7	1	Bolt	
8	1	Nut	

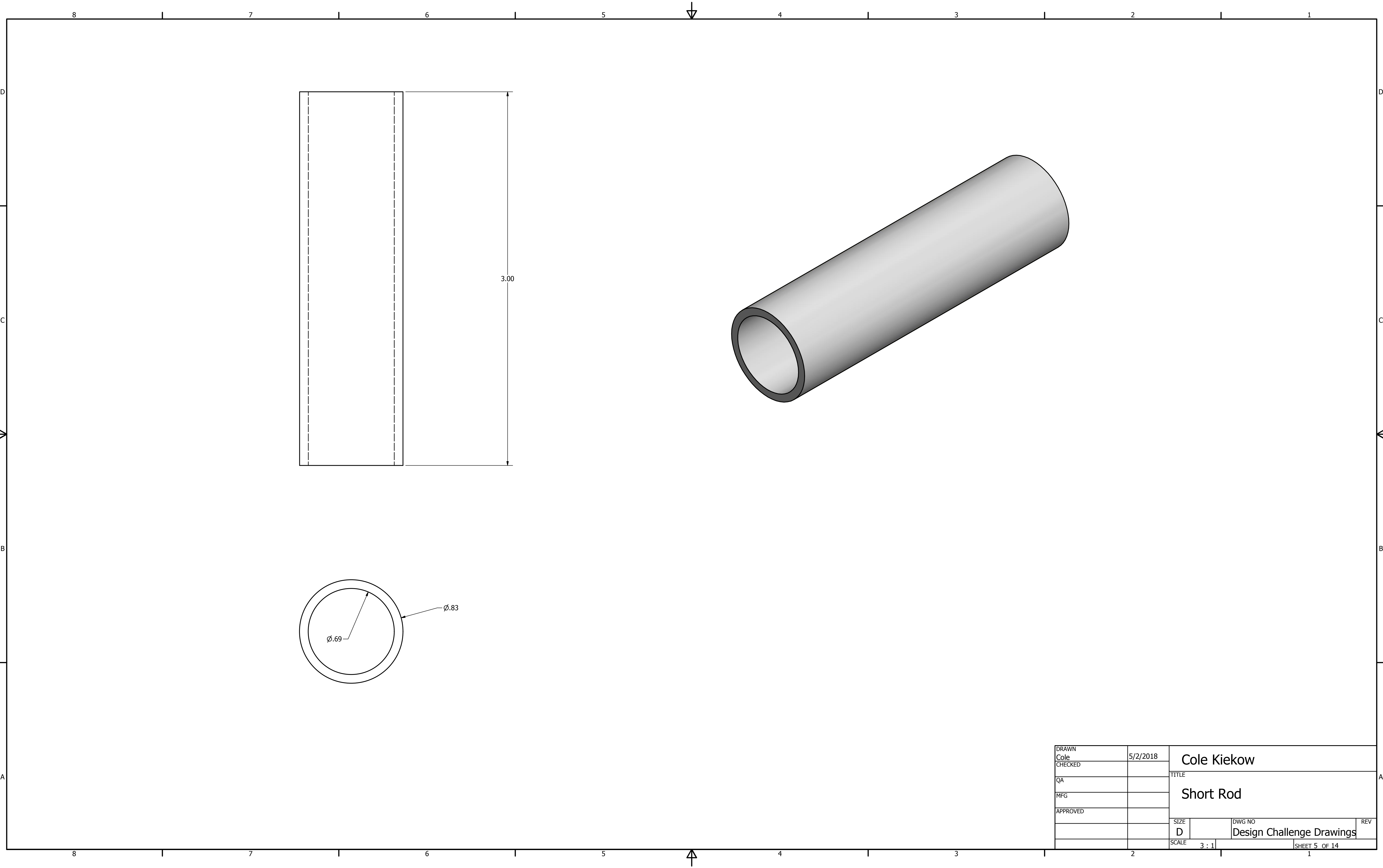
DRAWN	5/2/2018		TITLE	
CHECKED				
QA				
MFG				
APPROVED				
			SIZE	DWG NO
			D	Design Challenge Drawings
			SCALE	2/3
				SHEET 2 OF 14



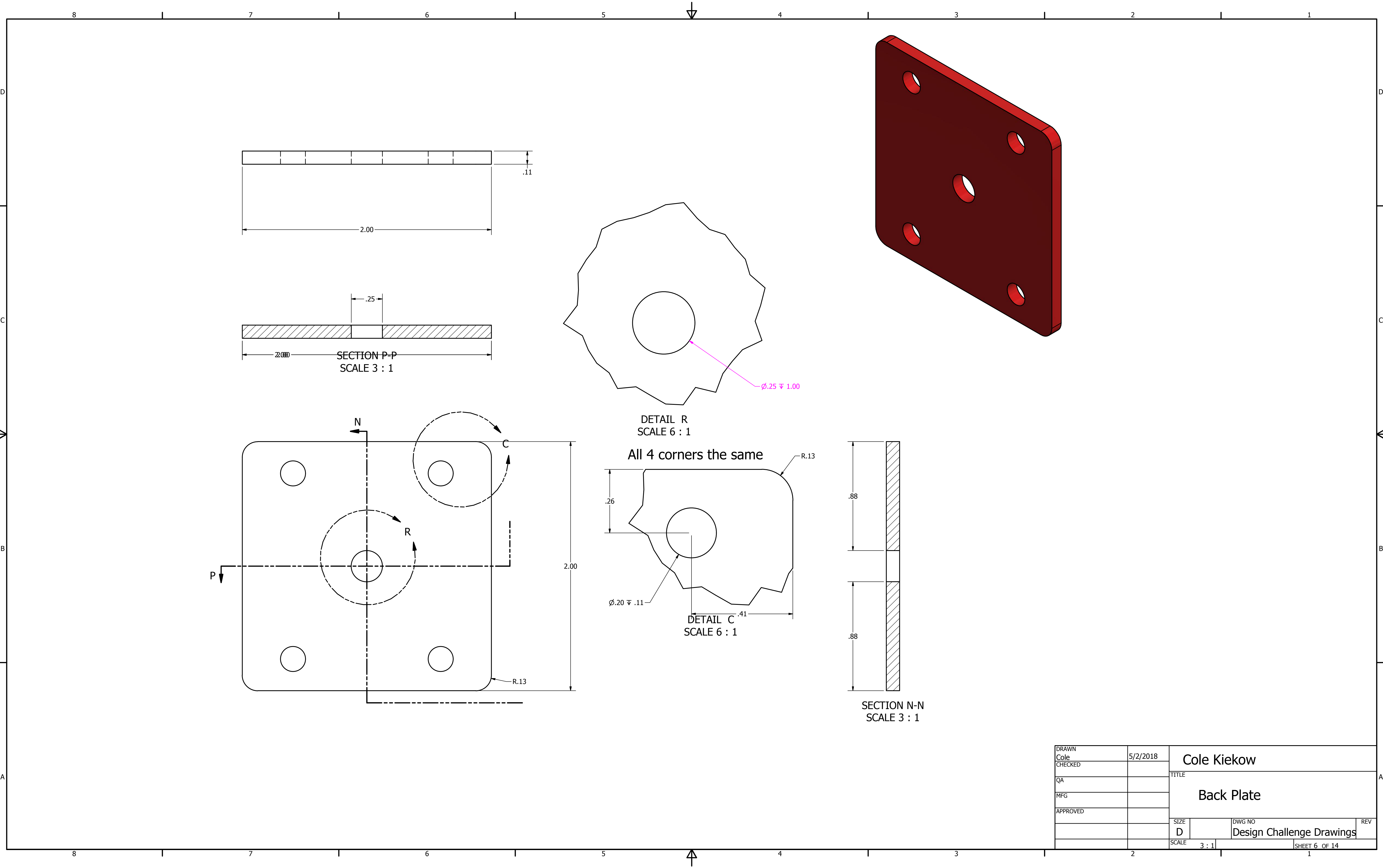
DRAWN	5/2/2018	Cole Kiekow		
Cole				
CHECKED		TITLE  Main Rod		
QA				
MFG				
APPROVED				
		SIZE	DWG NO	REV
		D	Design Challenge Drawings	
		SCALE	3 : 1	SHEET 3 OF 14



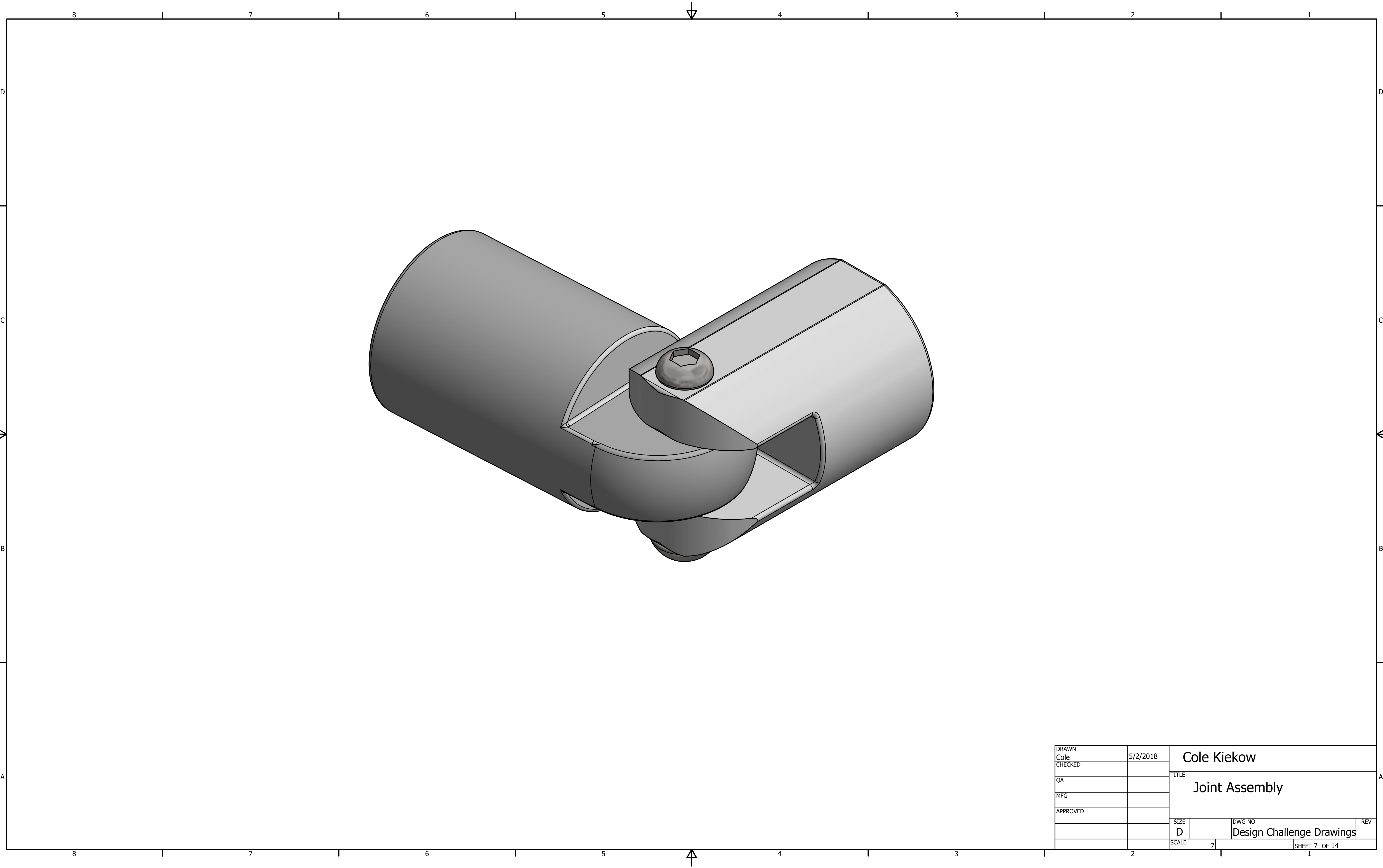
DRAWN	Cole	5/2/2018	Cole Kiekow		
CHECKED			TITLE		
QA			Slanted Rod		
MFG					
APPROVED					
			SIZE	DWG NO	REV
			D	Design Challenge Drawings	
			SCALE	3 : 1	SHEET 4 OF 14



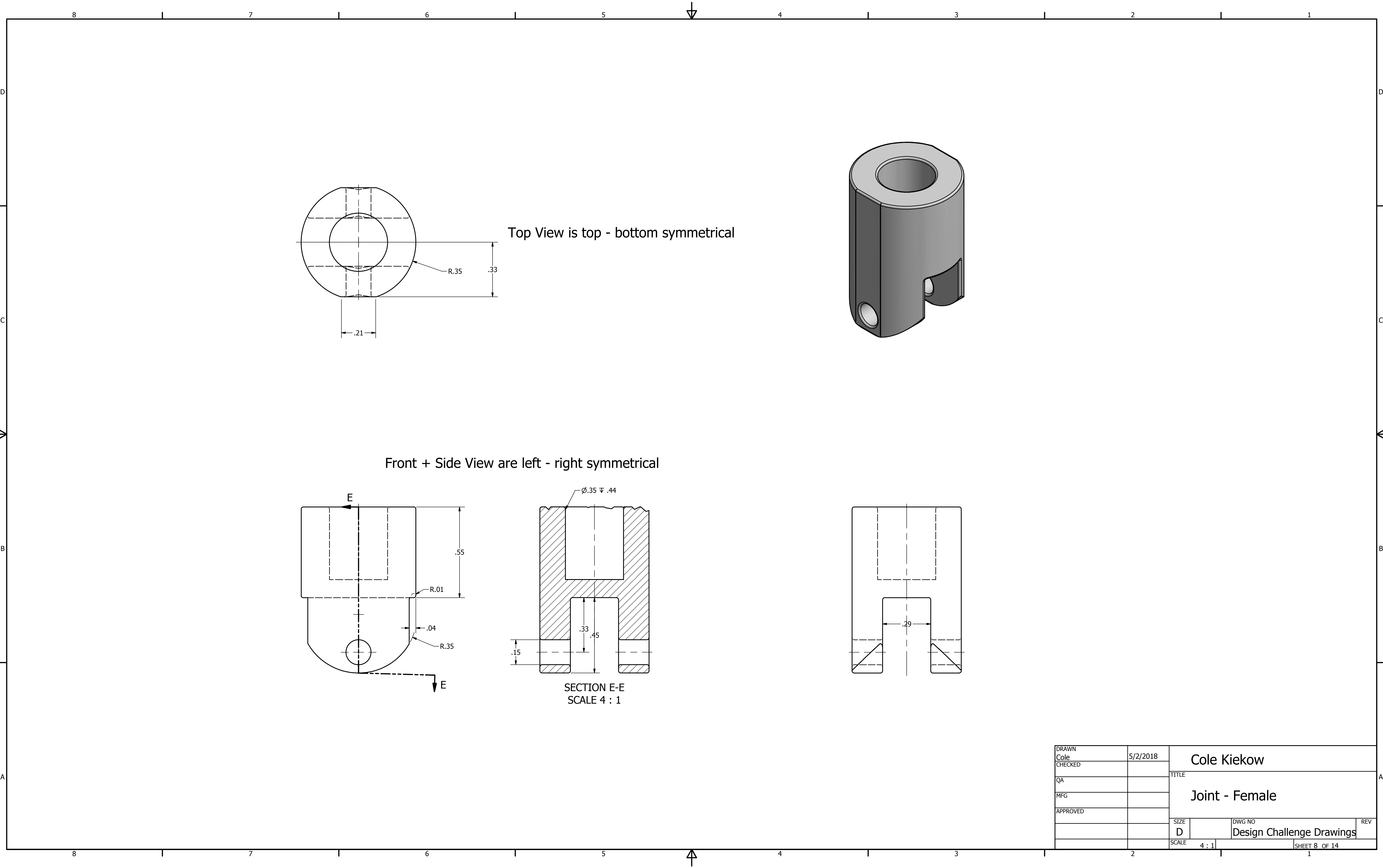
DRAWN	5/2/2018		Cole Kiekow	
CHECKED			TITLE	
QA			Short Rod	
MFG				
APPROVED				
	SIZE	DWG NO	REV	
	D		Design Challenge Drawings	
	SCALE	3 : 1	SHEET 5 OF 14	





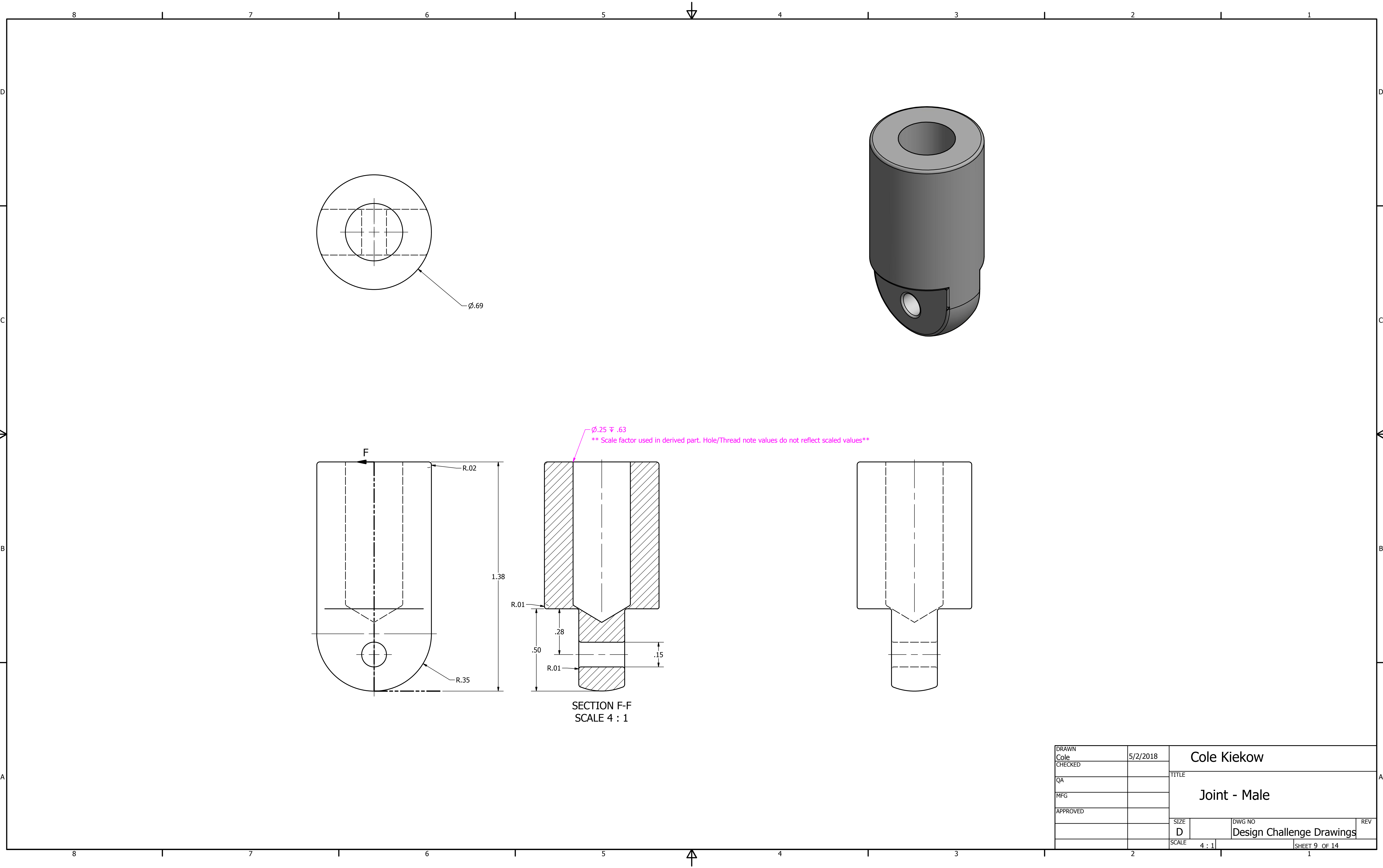


DRAWN	5/2/2018	Cole Kiekow			
Cole					
CHECKED		TITLE  Joint Assembly			
QA					
MFG					
APPROVED					
		SIZE	DWG NO		REV
		D	Design Challenge Drawings		
		SCALE	7	SHEET 7 OF 14	

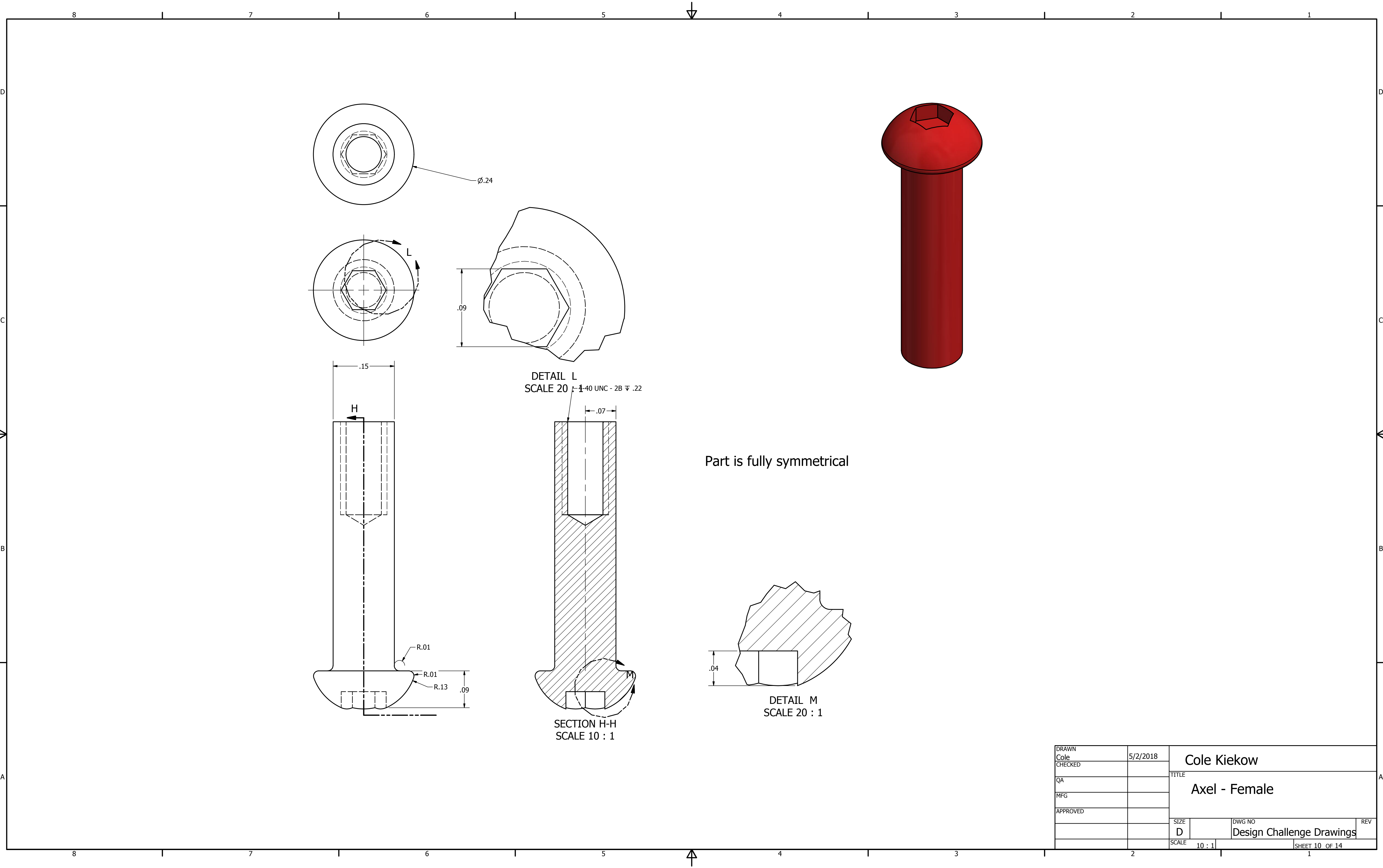


DRAWN	Cole	5/2/2018	Cole Kiekow		
CHECKED			TITLE		
QA			Joint - Female		
MFG					
APPROVED					
			SIZE	DWG NO	REV
			D	Design Challenge Drawings	
			SCALE	4 : 1	SHEET 8 OF 14

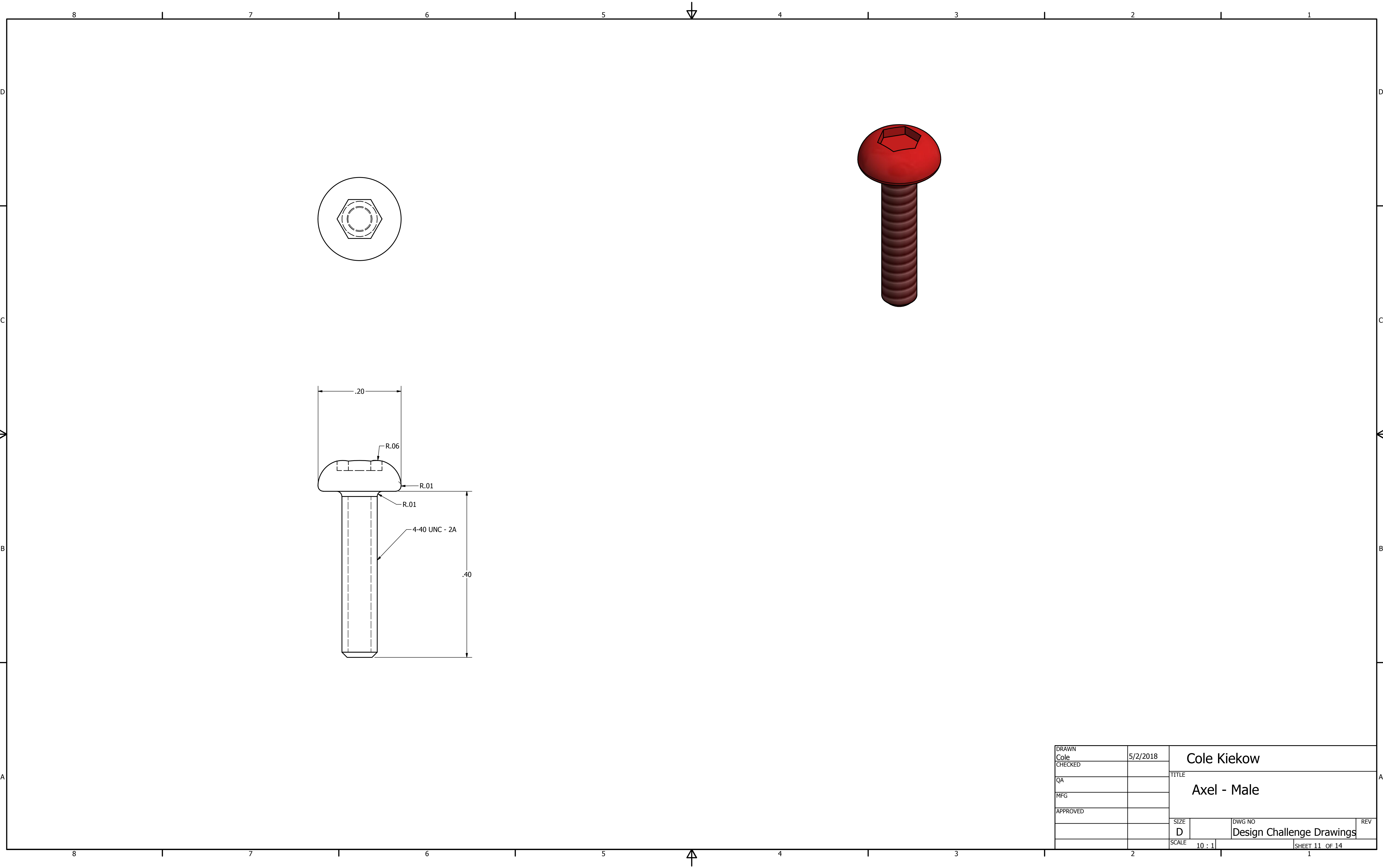




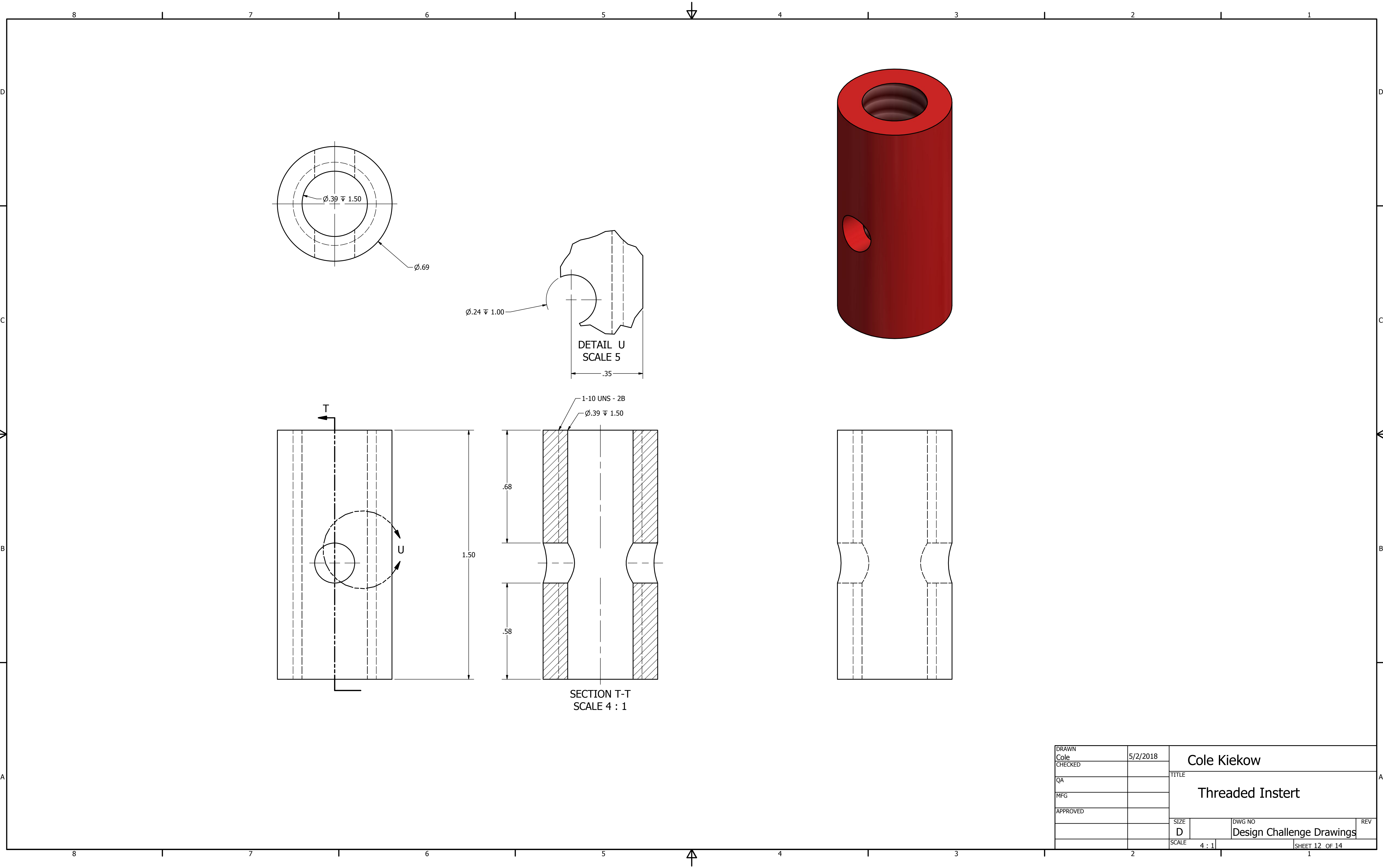
DRAWN	Cole	5/2/2018	Cole Kiekow		
CHECKED			TITLE		
QA			Joint - Male		
MFG					
APPROVED					
			SIZE	DWG NO	REV
			D	Design Challenge Drawings	
			SCALE	4 : 1	SHEET 9 OF 14



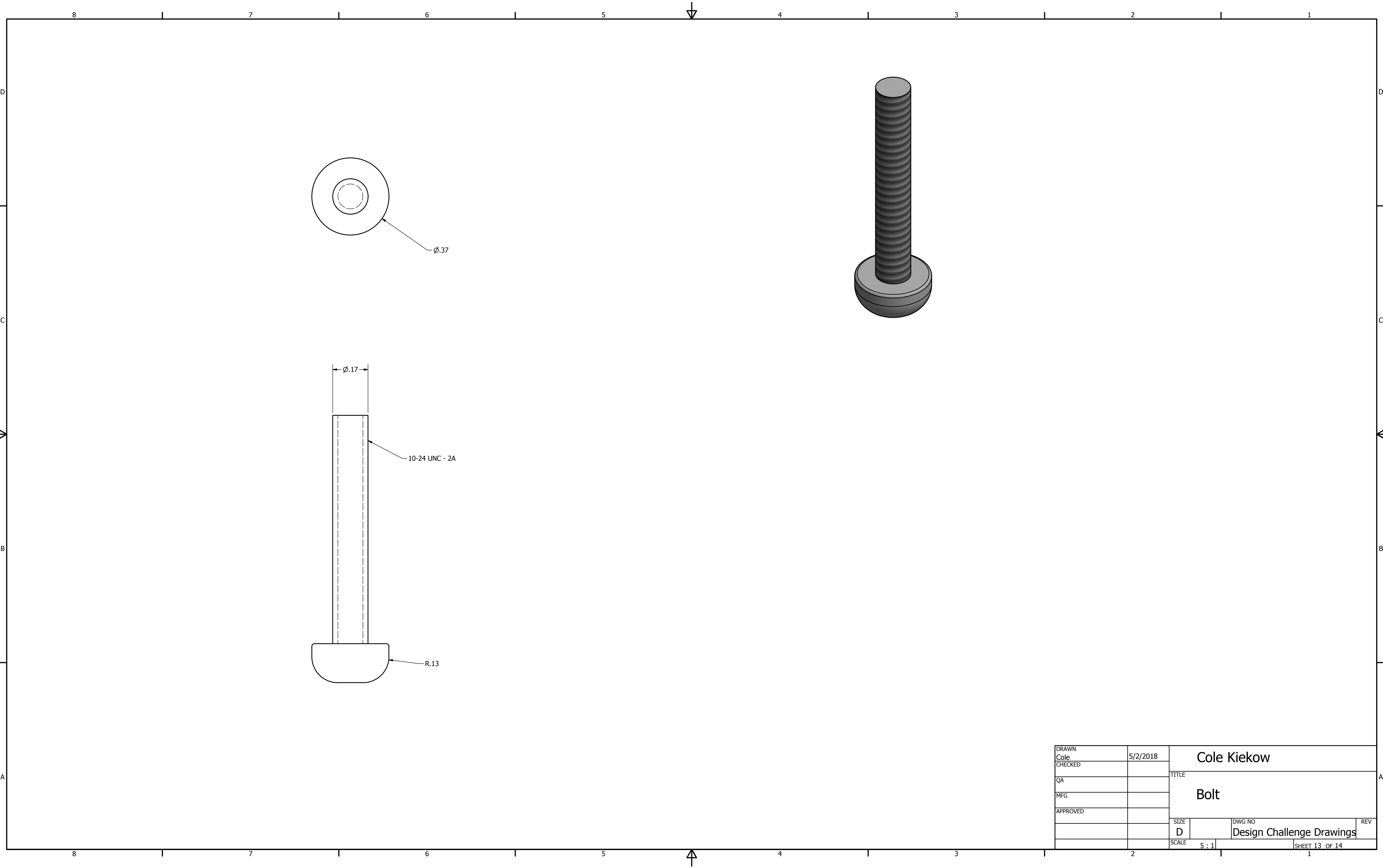
DRAWN	Cole	5/2/2018	Cole Kiekow		
CHECKED			TITLE		
QA			Axel - Female		
MFG					
APPROVED					
			SIZE	DWG NO	REV
			D	Design Challenge Drawings	
			SCALE	10 : 1	SHEET 10 OF 14



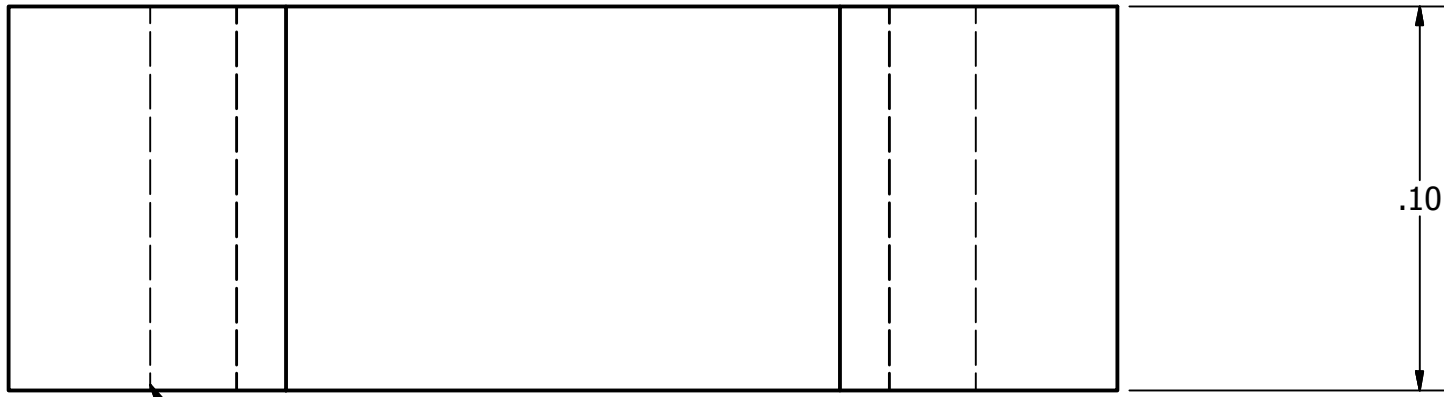
DRAWN	5/2/2018	Cole Kiekow			
Cole					
CHECKED		TITLE	Axel - Male		
QA					
MFG					
APPROVED					
		SIZE	DWG NO		REV
		D	Design Challenge Drawings		
		SCALE	10 : 1	SHEET 11 OF 14	



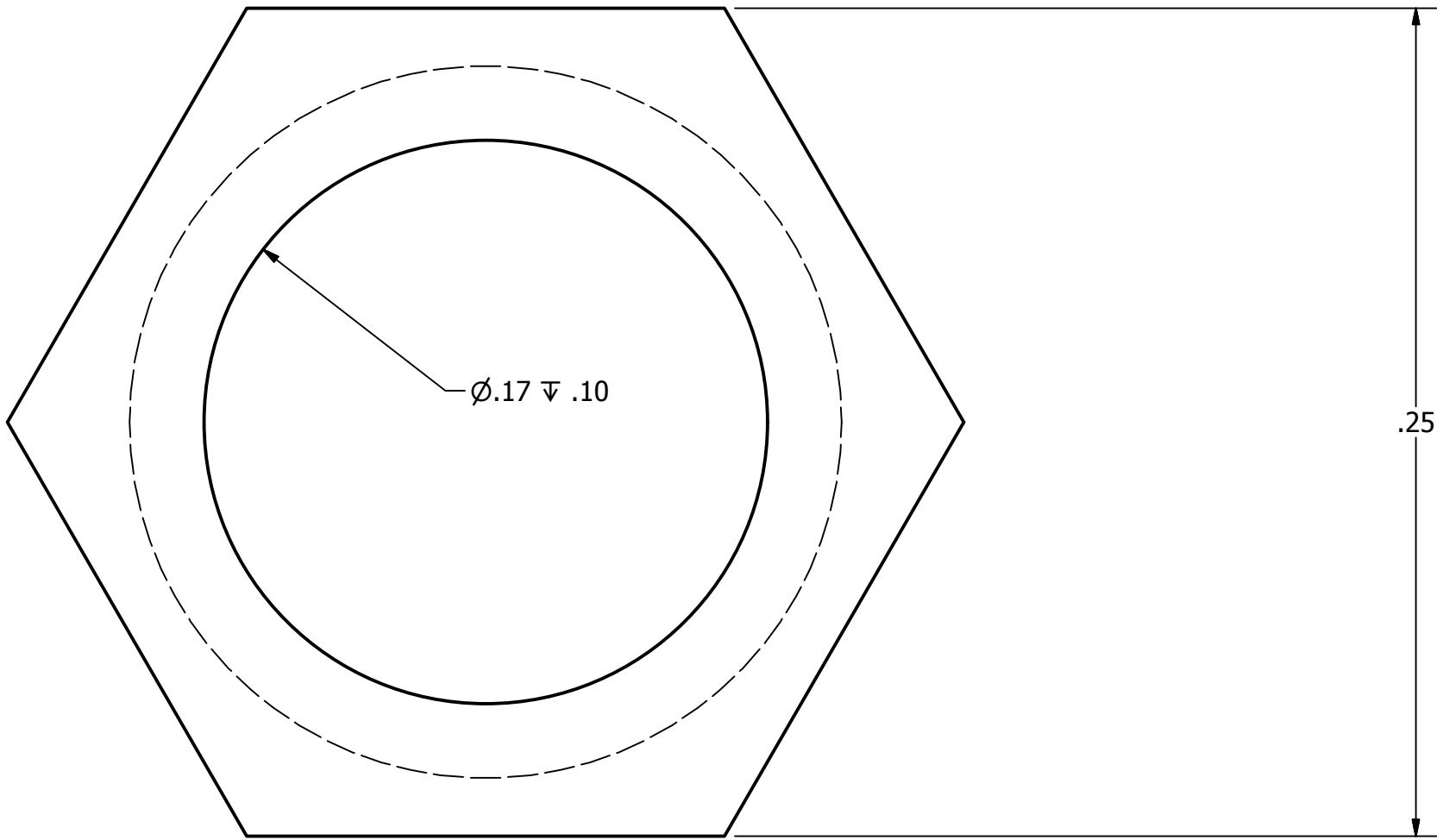
DRAWN	5/2/2018	Cole Kiekow		
Cole				
CHECKED		TITLE  Threaded Instert		
QA				
MFG				
APPROVED				
		SIZE D	DWG NO Design Challenge Drawings	REV
		SCALE 4 : 1	SHEET 12 OF 14	



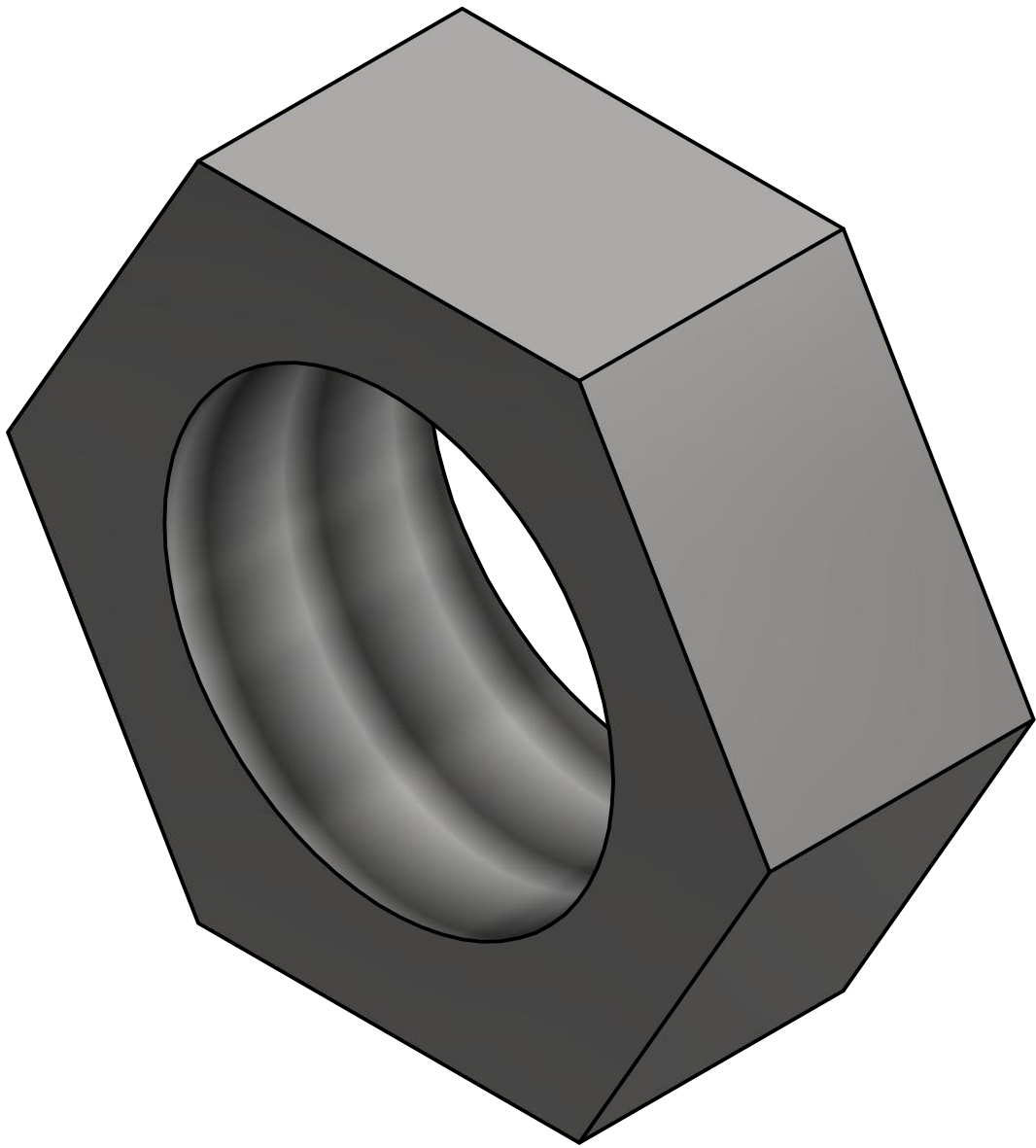
DRAWN	Cole	5/2/2018	Cole Kiekow		
CHECKED			TITLE		
QA			Bolt		
MFG					
APPROVED					
			SIZE	DWG NO	REV
			D	Design Challenge Drawings	
			SCALE	5 : 1	SHEET 13 OF 14



10-24 UNC - 2B



Ø.17 ±.10



DRAWN	Cole	5/2/2018	Cole Kiekow		
CHECKED			TITLE		
QA			Nut		
MFG					
APPROVED					
			SIZE	DWG NO	REV
			D	Design Challenge Drawings	
			SCALE	20	SHEET 14 OF 14