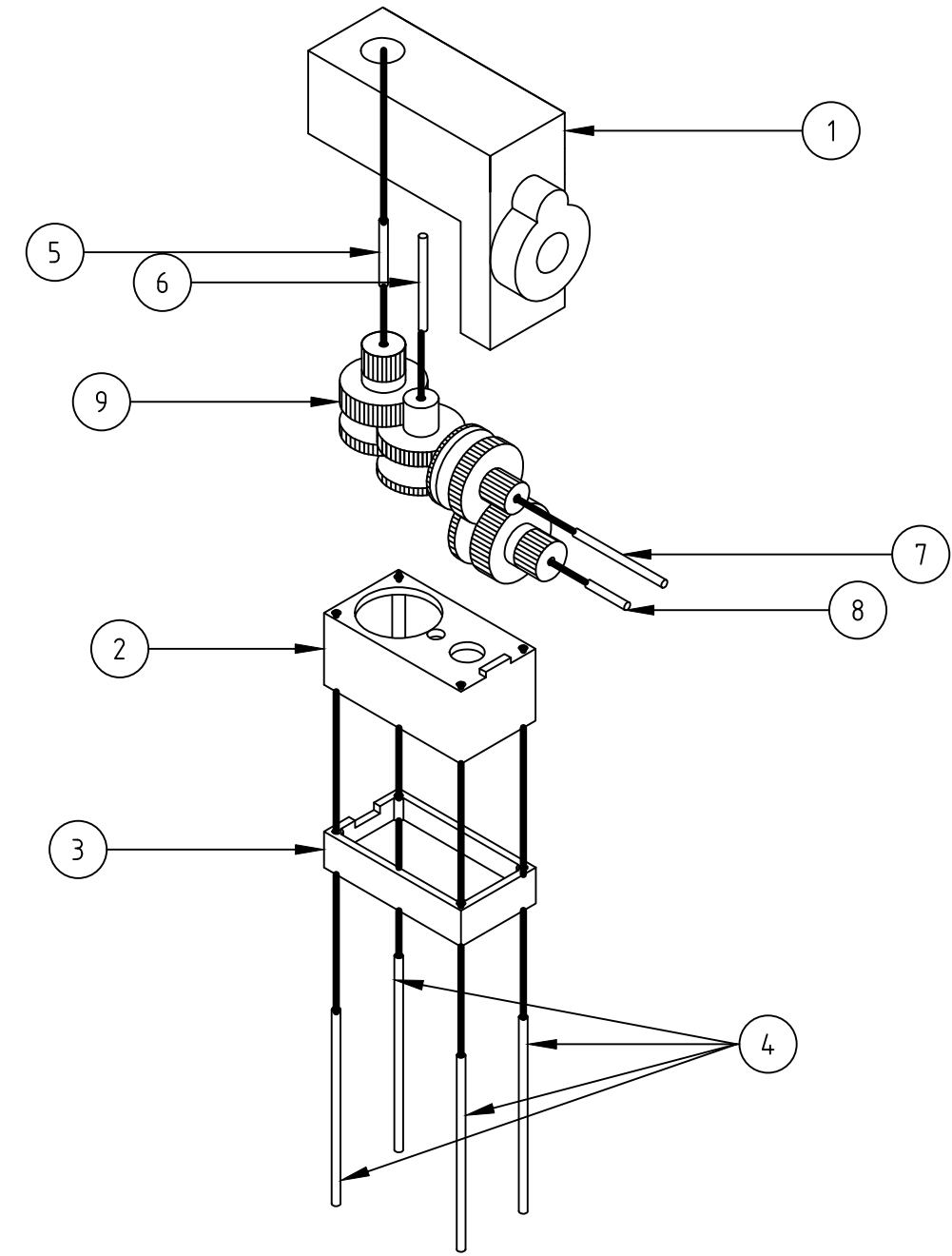
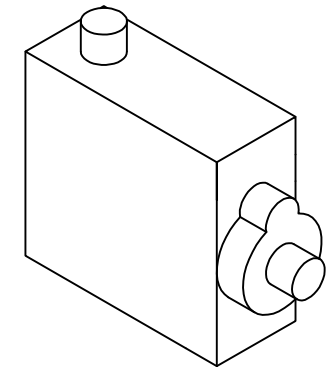
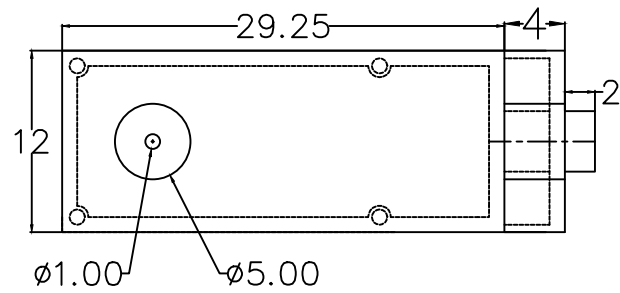


Item	Part Number	Description	Material	Qtny
1	P013	Casing	Plastic	1
2	P012	Casing	Plastic	1
3	P011	Casing	Plastic	2
4	P014	Screw	Steel	4
5	P007	Rod	Steel	1
6	P009	Rod	Steel	1
7	P008	Rod	Steel	1
8	P007	Rod	Steel	1
9	A003	Geartrain	Various	1

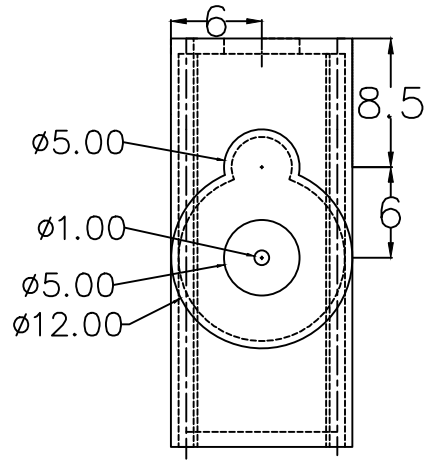
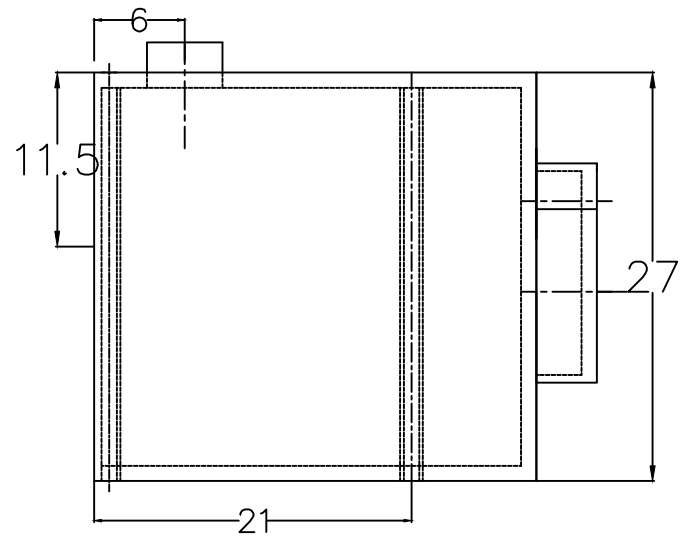
RevNo	Revision note	Date	Signature	Checked



FILE NAME Geartrain		FSCM NO	SHEET 1 OF 20	SCALE 1:1
SIZE			Assembly Exploded	
DRAWN 12/9/2016				
CHECK	12/7/2016	Will Wang		
APPR.	12/7/2016	Will Wang		
ISSUED	12/7/2016	Martin Lee		
REV	12/7/2016		DWG NO	D001
CONTRACT NO				



Pictorial for
Clarity

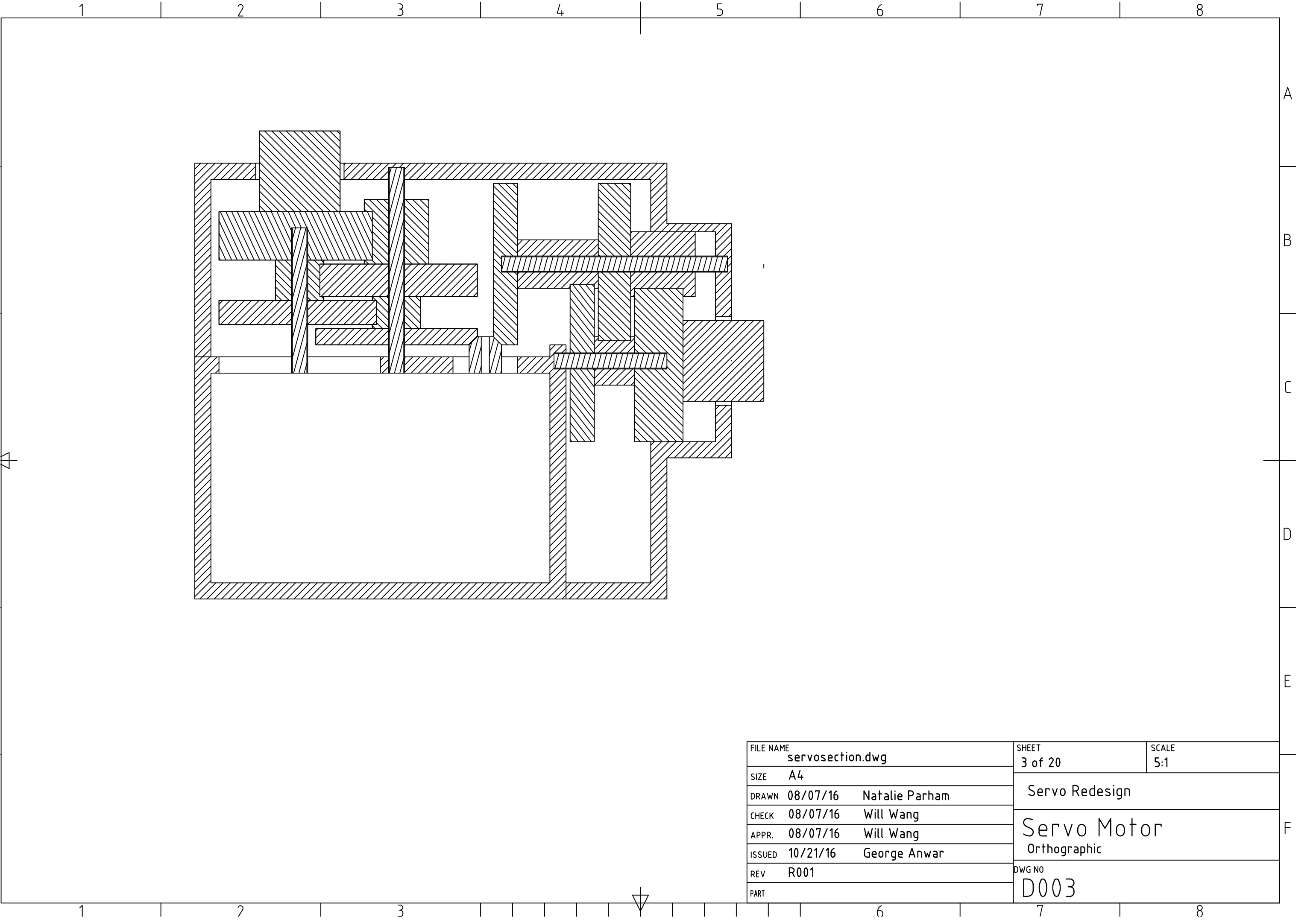


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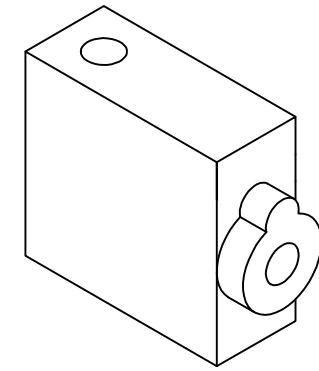
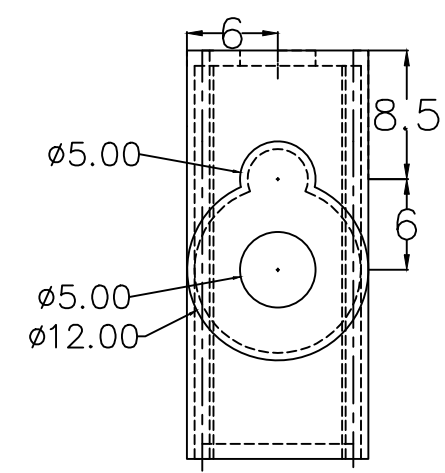
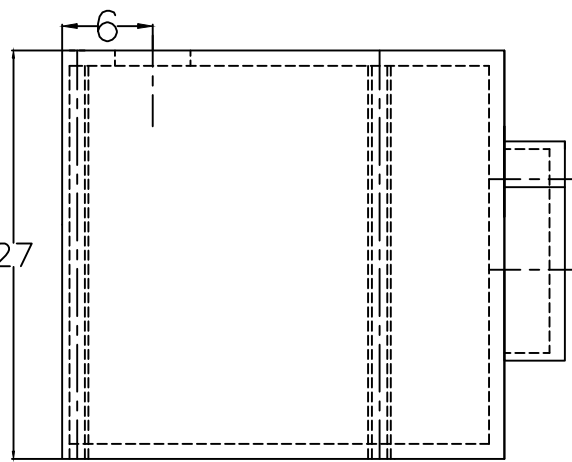
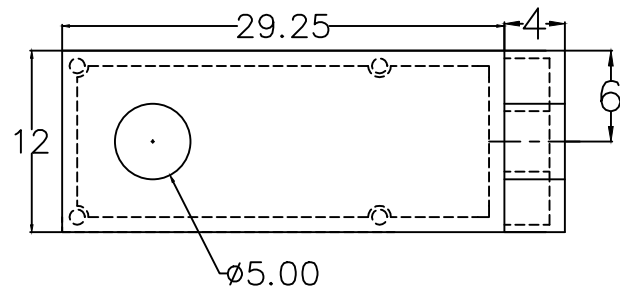
components
not pictured-see
D018, D019, D020
for specific pieces

ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	assemblyortho.dwg	SHEET	2 OF 20	SCALE	2:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16 Madison Ma	Assembly Orthographic			
CHECK	08/07/16 Natalie Parham				
APPR.	08/07/16 Will Wang	DWG NO D002			
ISSUED	10/21/16 George Anwar				
REV	R001				
PART					



FILE NAME	servosection.dwg		SHEET	3 of 20	SCALE	5:1
SIZE	A4		Servo Redesign			
DRAWN	08/07/16	Natalie Parham	Servo Motor Orthographic			
CHECK	08/07/16	Will Wang				
APPR.	08/07/16	Will Wang	DWG NO D003			
ISSUED	10/21/16	George Anwar				
REV	R001					
PART						



Pictorial for
Clarity

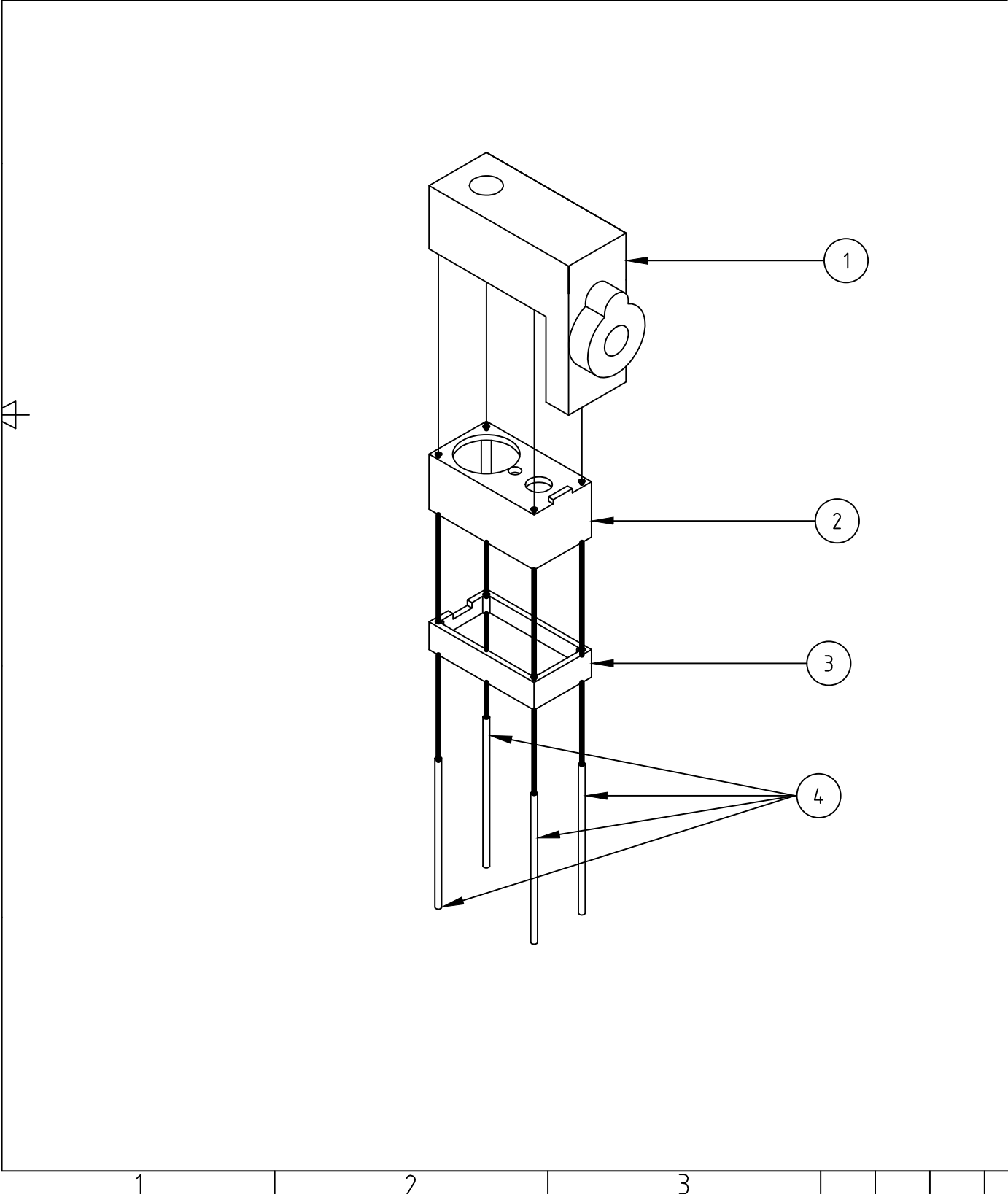
Notes

components
not pictured-see
D018, D019, D020
for specific pieces

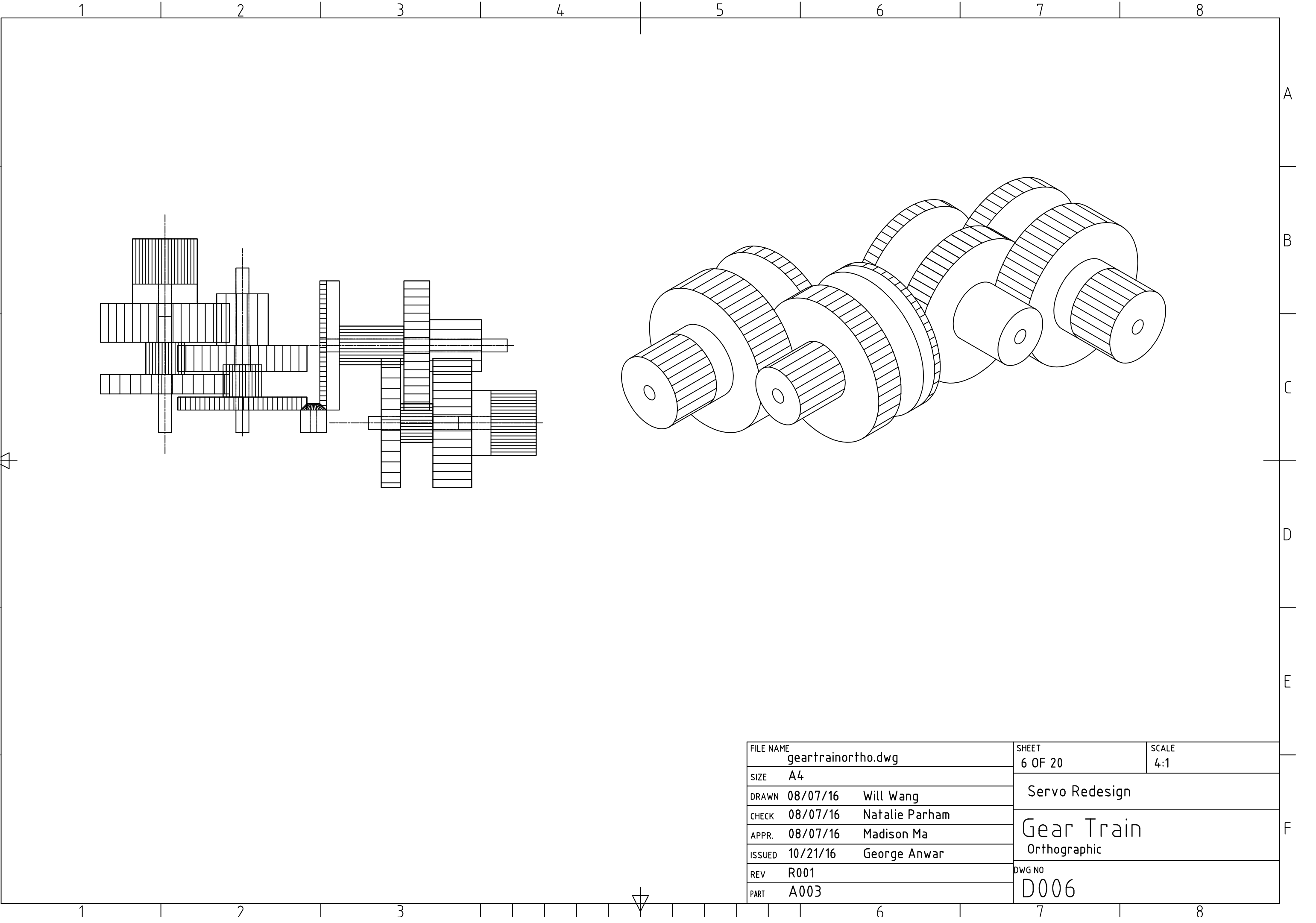
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME		casingortho.dwg		SHEET		4 OF 20		SCALE		2:1	
SIZE		A4		Servo Redesign							
DRAWN		08/07/16 Madison Ma									
CHECK		08/07/16 Natalie Parham									
APPR.		08/07/16 Will Wang									
ISSUED		10/21/16 George Anwar		Casing Orthographic							
REV		R001									
PART		A003		DWG NO		D004					

BILL OF MATERIALS				
Item	Part Number	Description	Material	Qtny
1	P013	Casing	Plastic	1
2	P012	Casing	Plastic	1
3	P011	Casing	Plastic	1
4	P014	Screw	Steel	4



FILE NAME	casingexplo.dwg	SHEET	5 OF 20	SCALE	1:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16	Martin Lee	Casing Assmebly Exploded		
CHECK	08/07/16	Madison Ma			
APPR.	08/07/16	Will Wang	DWG NO D005		
ISSUED	10/21/16	George Anwar			
REV	R001				
PART					



FILE NAME geartrainortho.dwg			SHEET 6 OF 20	SCALE 4:1
SIZE A4			Servo Redesign	
DRAWN 08/07/16 Will Wang				
CHECK 08/07/16 Natalie Parham			Gear Train Orthographic	
APPR. 08/07/16 Madison Ma				
ISSUED 10/21/16 George Anwar				
REV R001			DWG NO D006	
PART A003				

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BILL OF MATERIALS				
Item	Part Number	Description	Material	Qtny
1	P007	Rod	Steel	2
2	P009	Rod	Steel	1
3	P001	Gear	Plastic	2
4	P002	Gear	Plastic	2
5	P003	Gear	Plastic	2
6	P004	Gear	Plastic	2
7	P005	Gear	Plastic	2
8	P006	Gear	Plastic	1
9	P008	Rod	Steel	1
10	P010	Rod	Steel	1

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FILE NAMEgeartrainexpl.dwg

SIZEA4

DRAWN08/07/16Martin Lee

CHECK08/07/16Madison Ma

APPR.08/07/16Will Wang

ISSUED10/21/16George Anwar

REV R001

PART

SHEET7 OF 20

SCALE1:1

Servo Redesign

Gear TrainExploded

DWG NO D007

1

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A

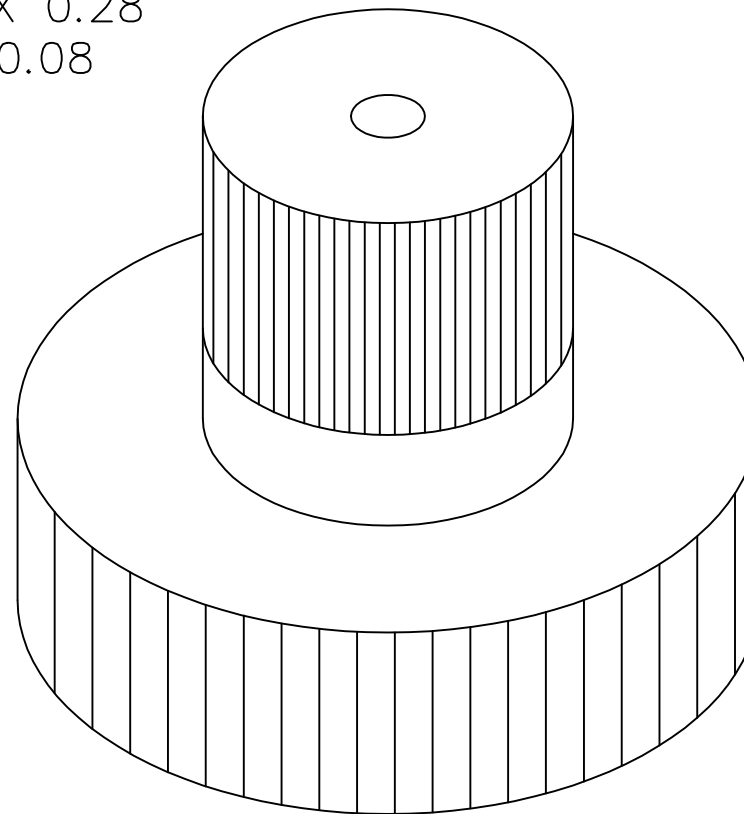
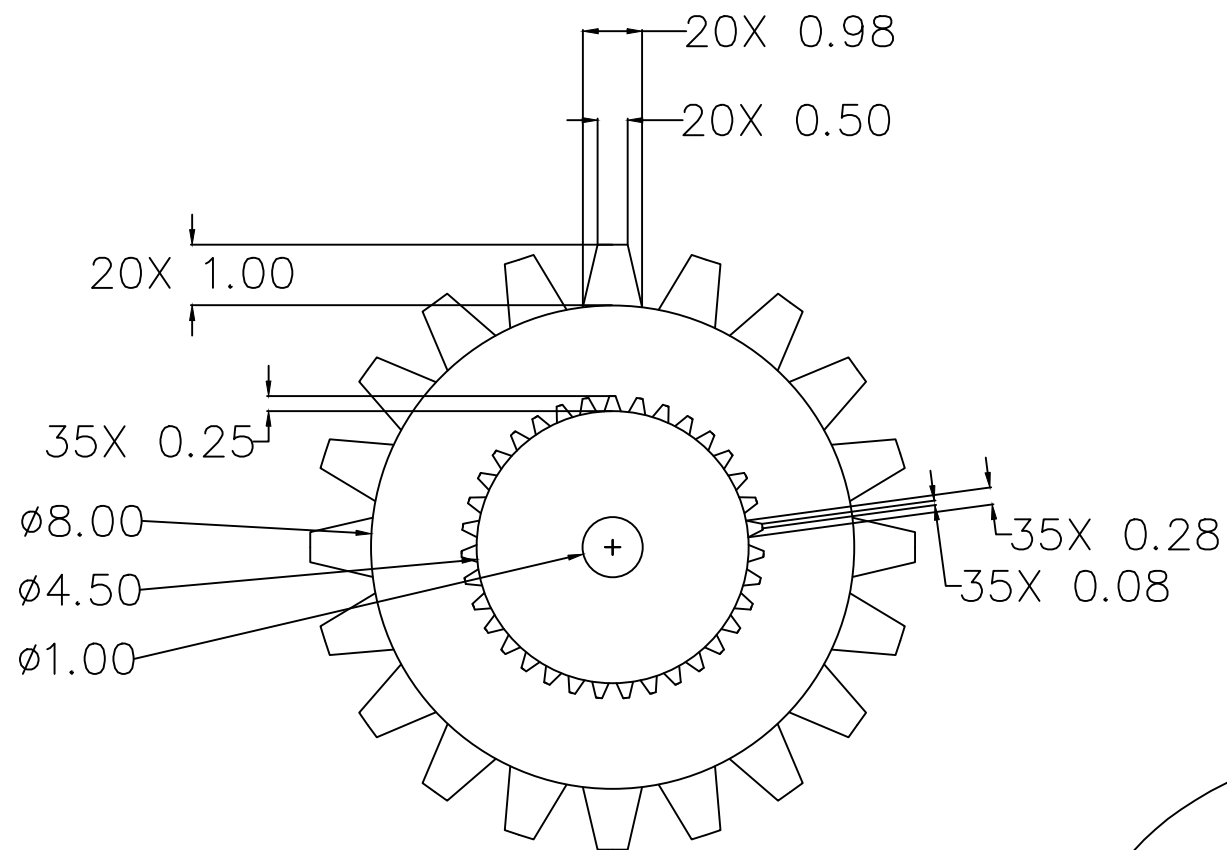
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C

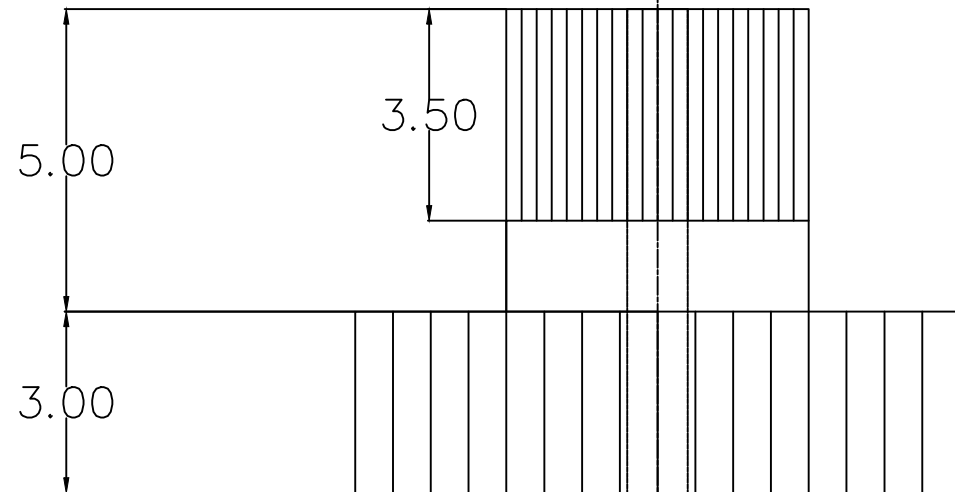
D

E

F



pictorial for clarity

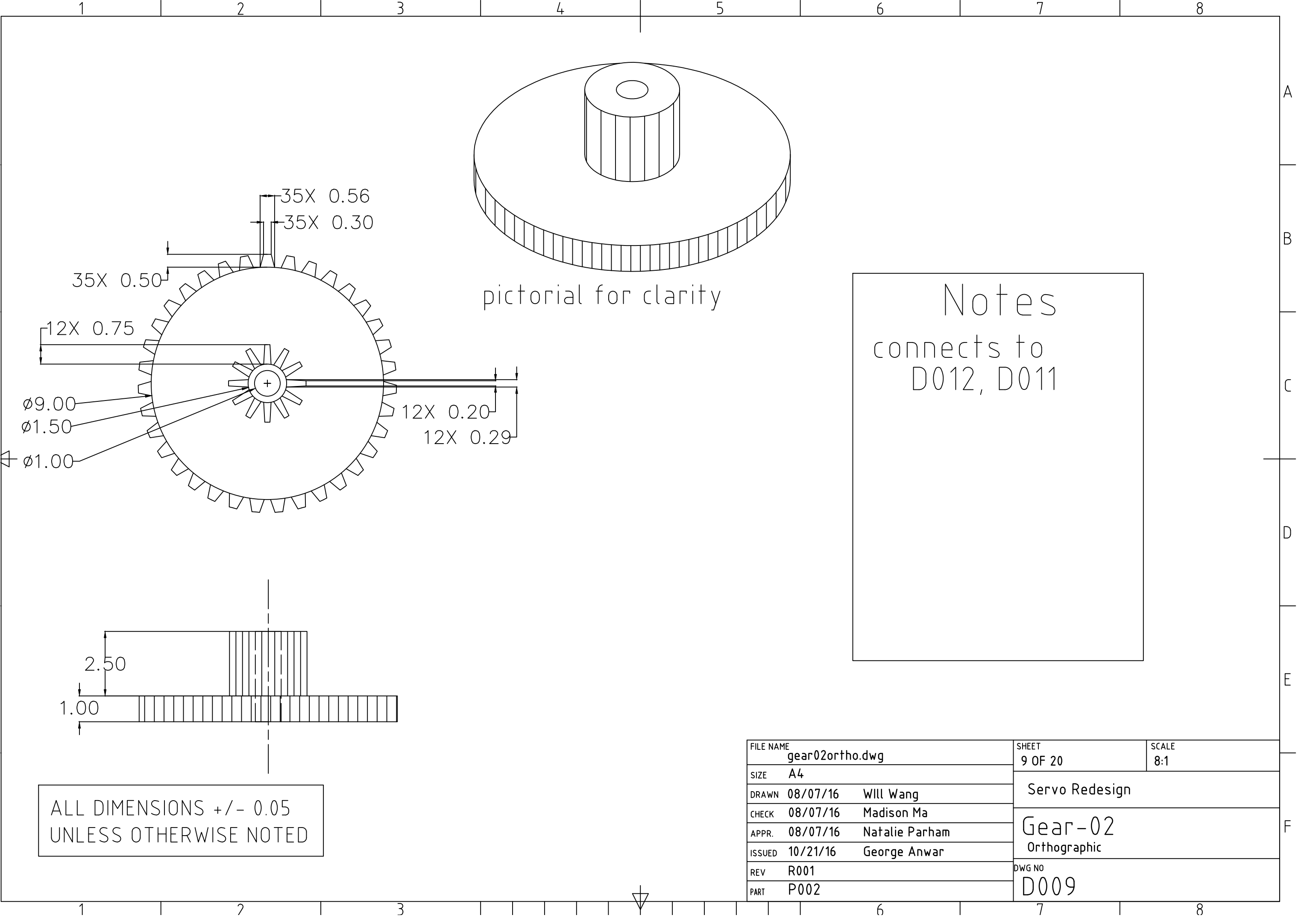


ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

Notes

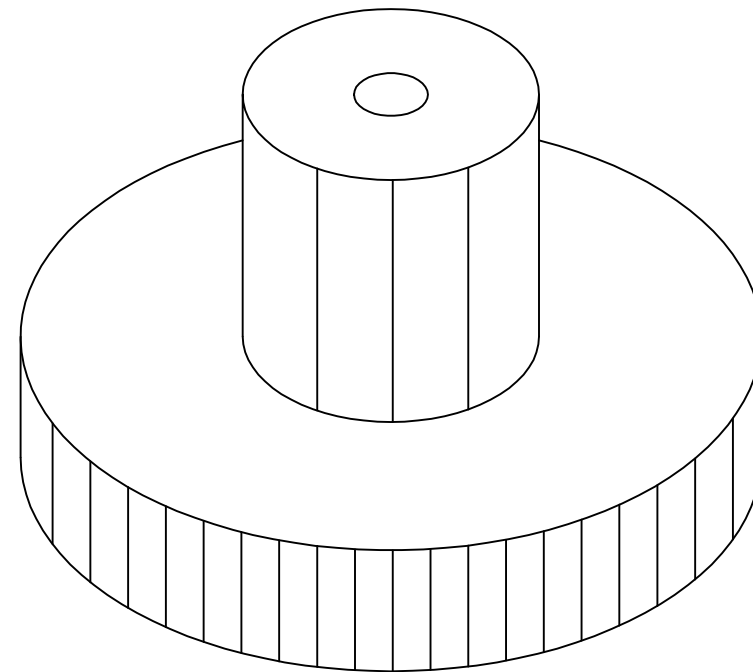
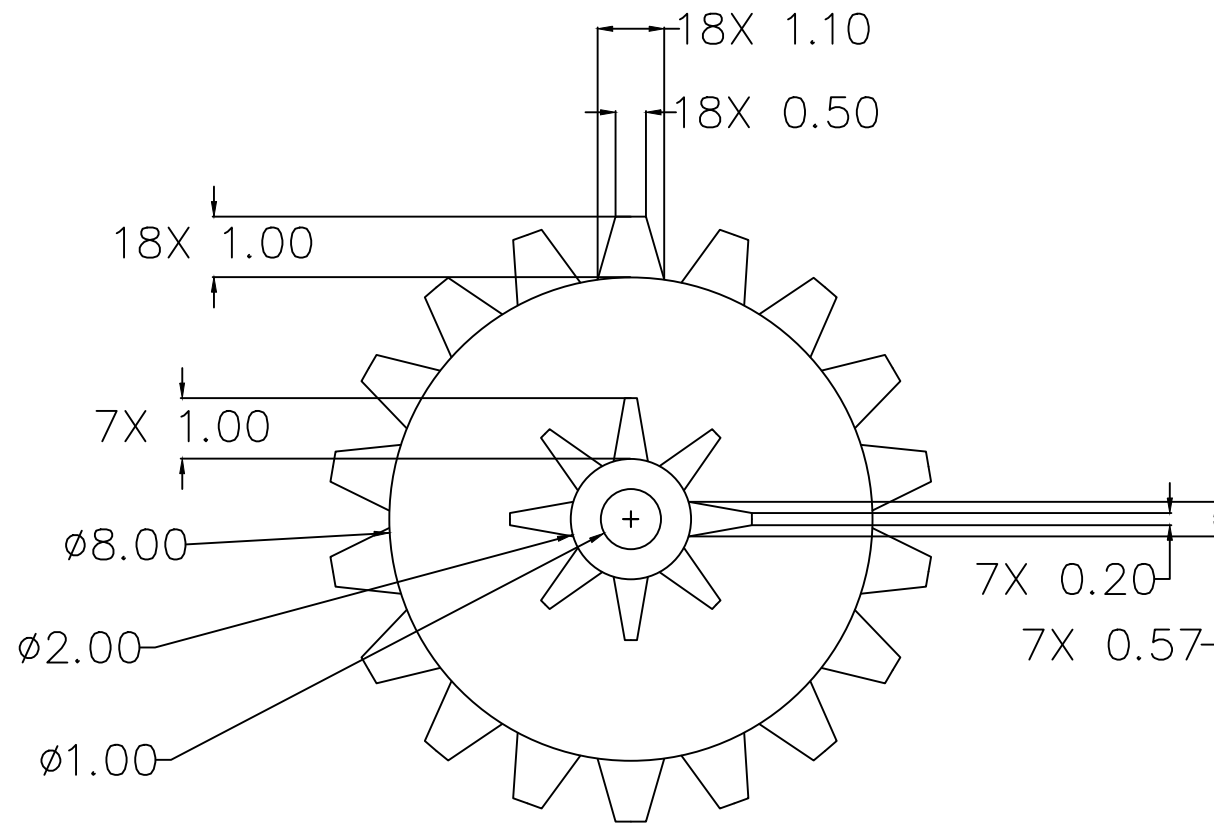
connects to D010

FILE NAME		SHEET	SCALE
gear01ortho.dwg		8 OF 20	8:1
SIZE	A4	Servo Redesign	
DRAWN	08/07/16 Will Wang		
CHECK	08/07/16 Madison Ma		
APPR.	08/07/16 Natalie Parham		
ISSUED	10/21/16 George Anwar		
REV	R001	Gear-01 Orthographic	
PART	P001		
		DWG NO	
		D008	



ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	gear02ortho.dwg	SHEET	9 OF 20	SCALE	8:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16 Will Wang	Gear-02 Orthographic			
CHECK	08/07/16 Madison Ma				
APPR.	08/07/16 Natalie Parham				
ISSUED	10/21/16 George Anwar	DWG NO D009			
REV	R001				
PART	P002				



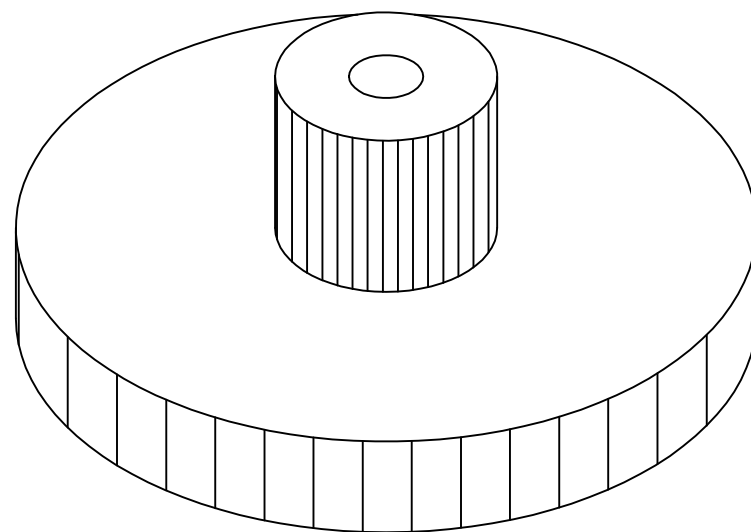
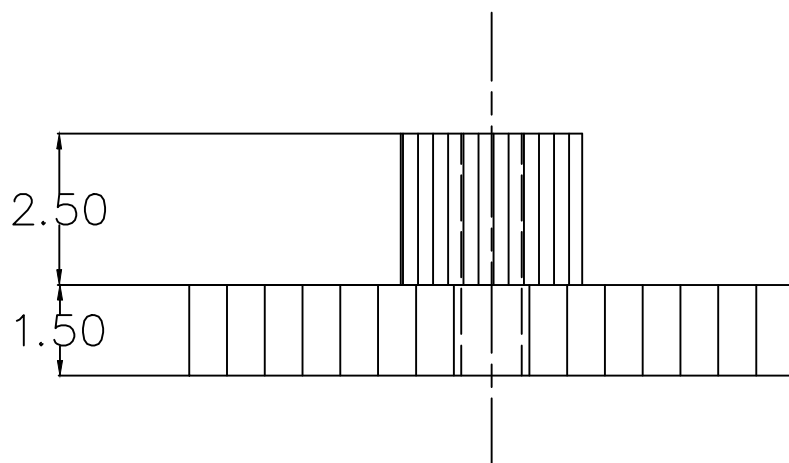
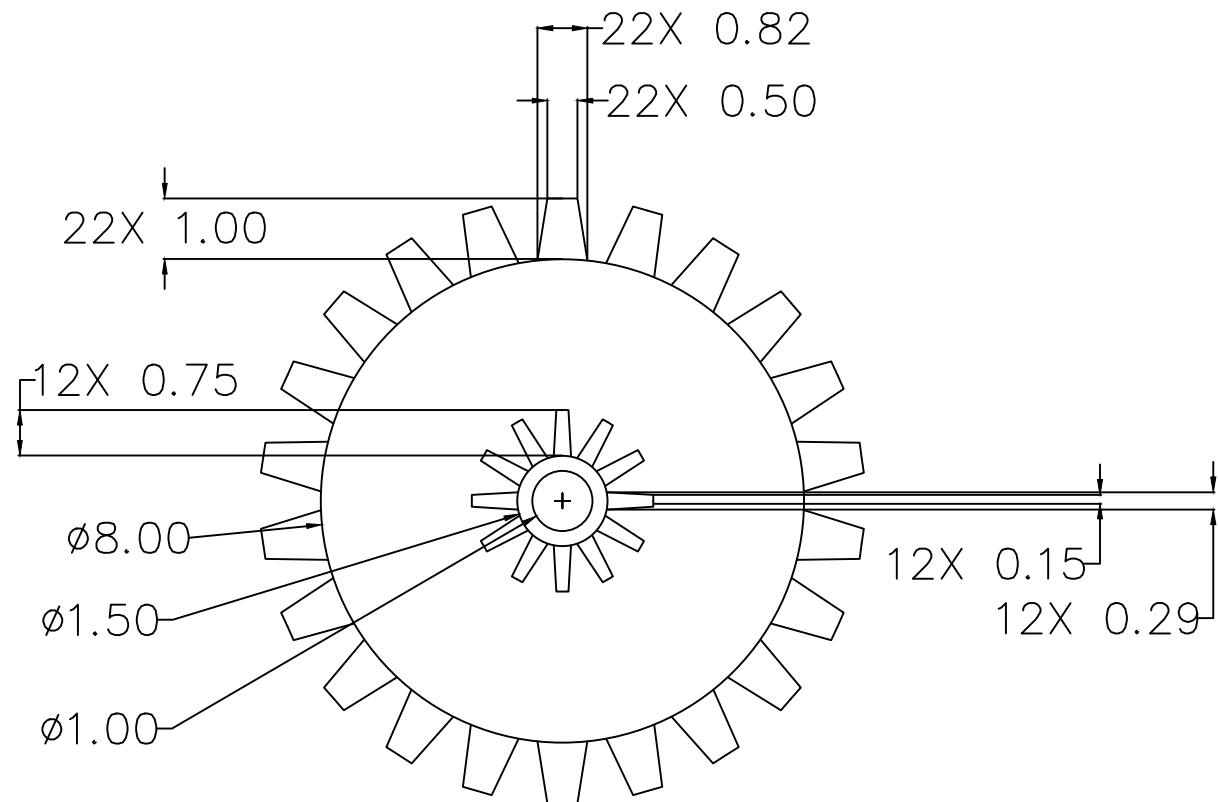
pictorial for
clarity



Notes
connects to D011,
D008

ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	gear03ortho.dwg	SHEET	10 OF 20	SCALE	8:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16 Will Wang	Gear-03 Orthographic			
CHECK	08/07/16 Madison Ma				
APPR.	08/07/16 Natalie Parham	DWG NO D010			
ISSUED	10/21/16 George Anwar				
REV	R001				
PART	P003				

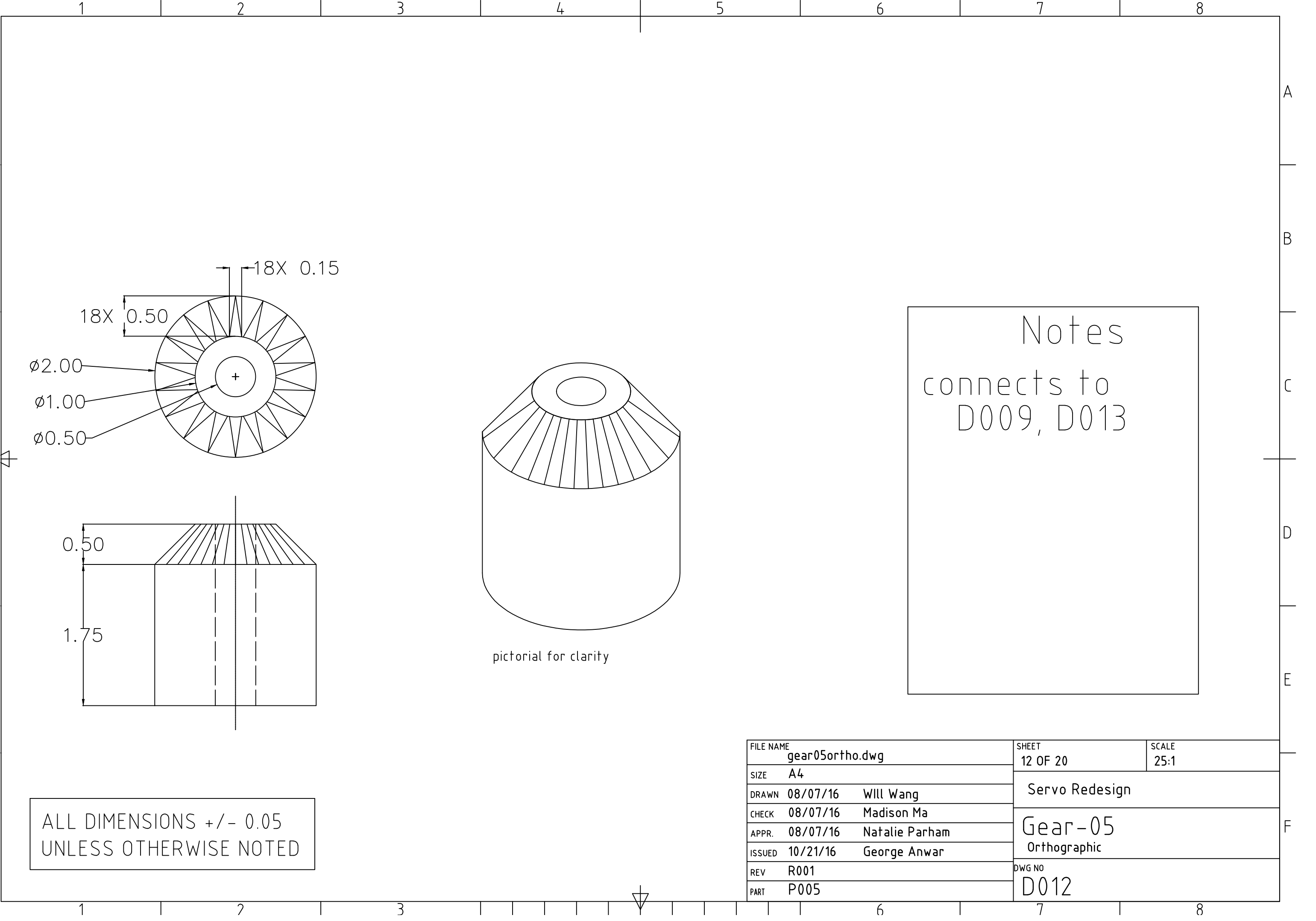


pictorial for clarity

Notes
connects to D009,
D010

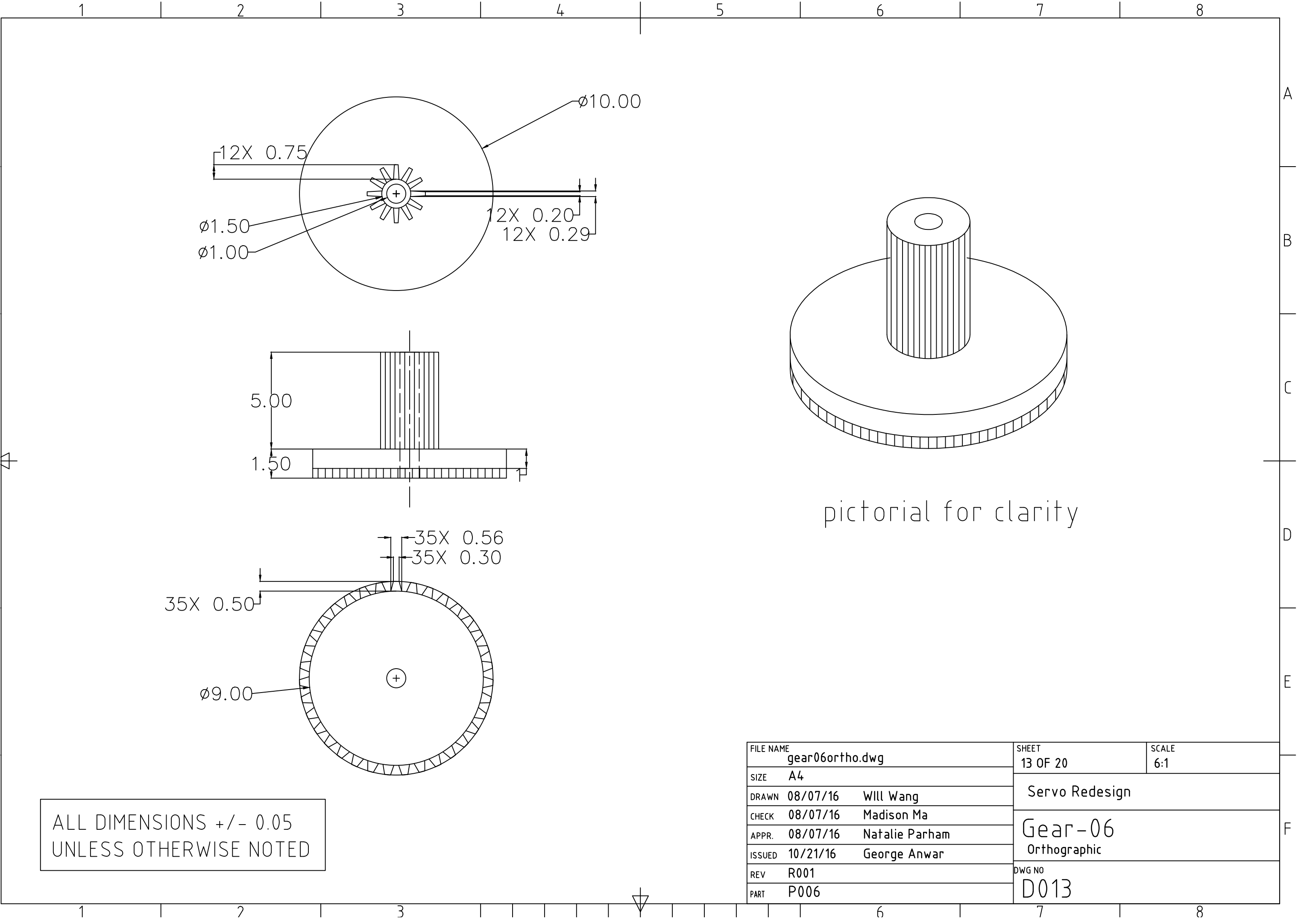
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	gear04ortho.dwg	SHEET	11 OF 20	SCALE	8:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16 Will Wang	Gear-04 Orthographic			
CHECK	08/07/16 Madison Ma				
APPR.	08/07/16 Natalie Parham				
ISSUED	10/21/16 George Anwar				
REV	R001	DWG NO			
PART	P004	D011			



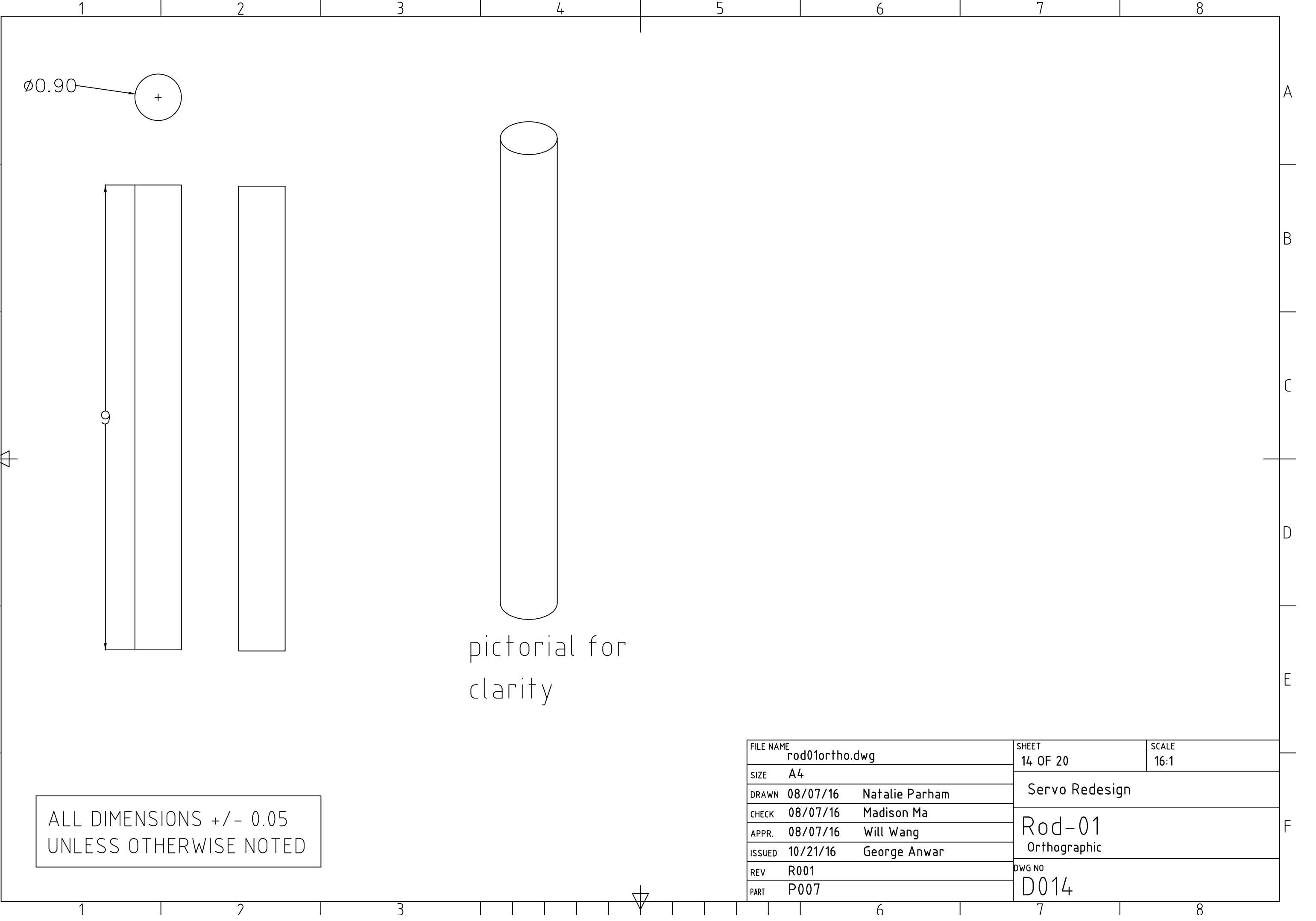
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME gear05ortho.dwg			SHEET 12 OF 20	SCALE 25:1
SIZE A4			Servo Redesign	
DRAWN 08/07/16 Will Wang				
CHECK 08/07/16 Madison Ma			Gear-05 Orthographic	
APPR. 08/07/16 Natalie Parham				
ISSUED 10/21/16 George Anwar				
REV R001			DWG NO D012	
PART P005				



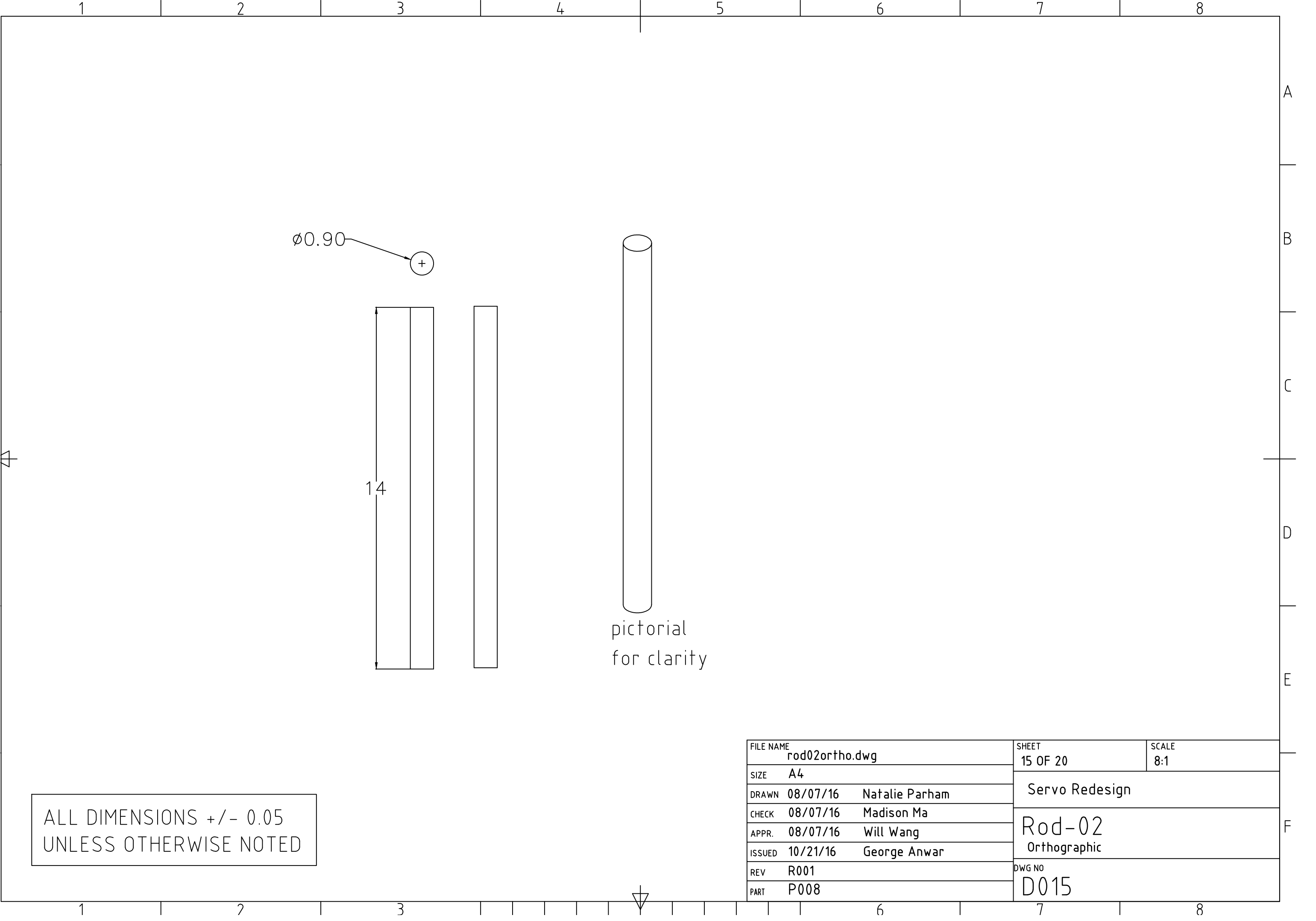
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	gear06ortho.dwg	SHEET	13 OF 20	SCALE	6:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16 Will Wang	Gear-06 Orthographic			
CHECK	08/07/16 Madison Ma				
APPR.	08/07/16 Natalie Parham	DWG NO D013			
ISSUED	10/21/16 George Anwar				
REV	R001				
PART	P006				



ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

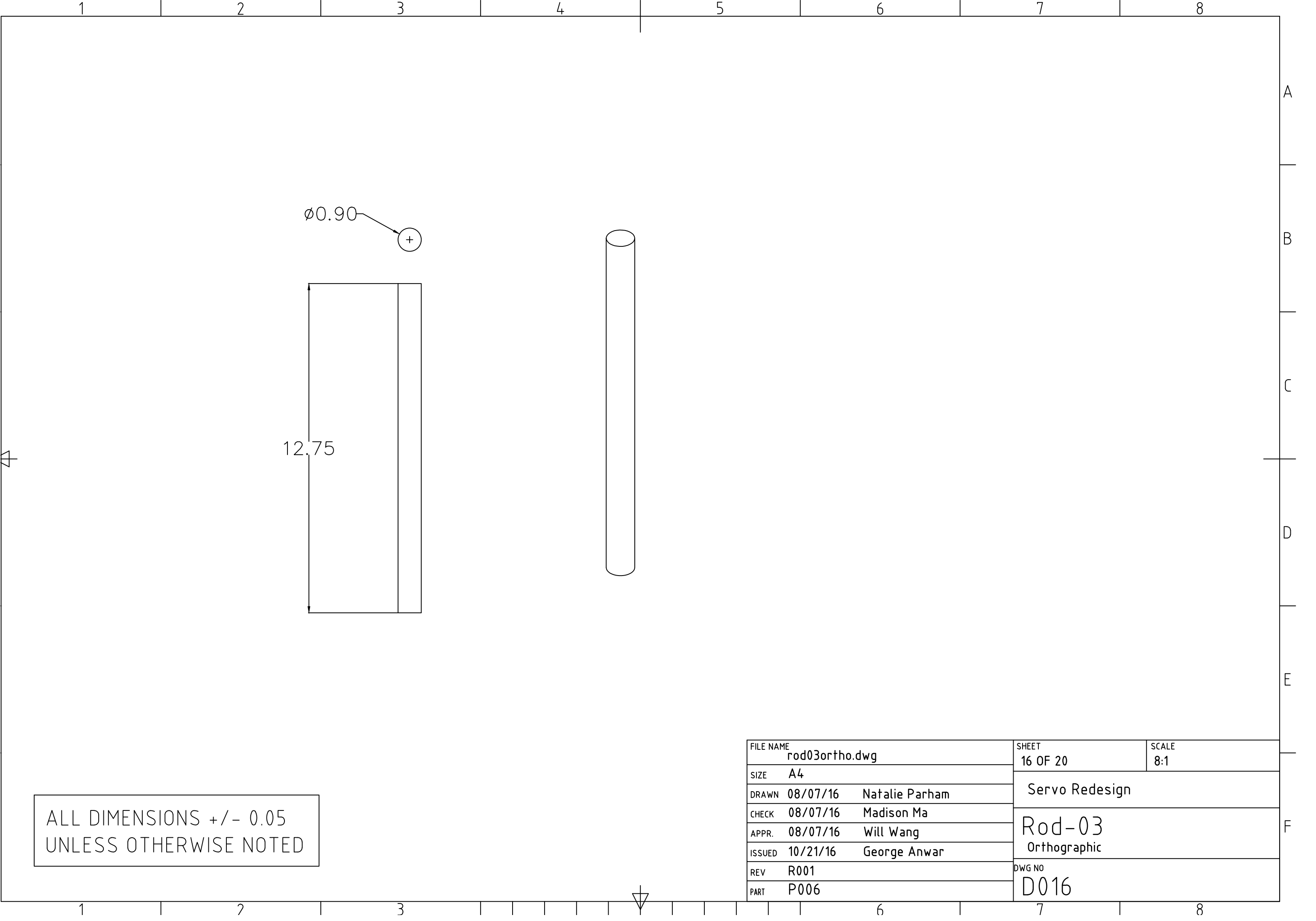
FILE NAME rod01ortho.dwg		SHEET 14 OF 20	SCALE 16:1
SIZE A4		Servo Redesign Rod-01 Orthographic	
DRAWN 08/07/16 Natalie Parham			
CHECK 08/07/16 Madison Ma			
APPR. 08/07/16 Will Wang			
ISSUED 10/21/16 George Anwar		DWG NO D014	
REV R001			
PART P007			



pictorial
for clarity

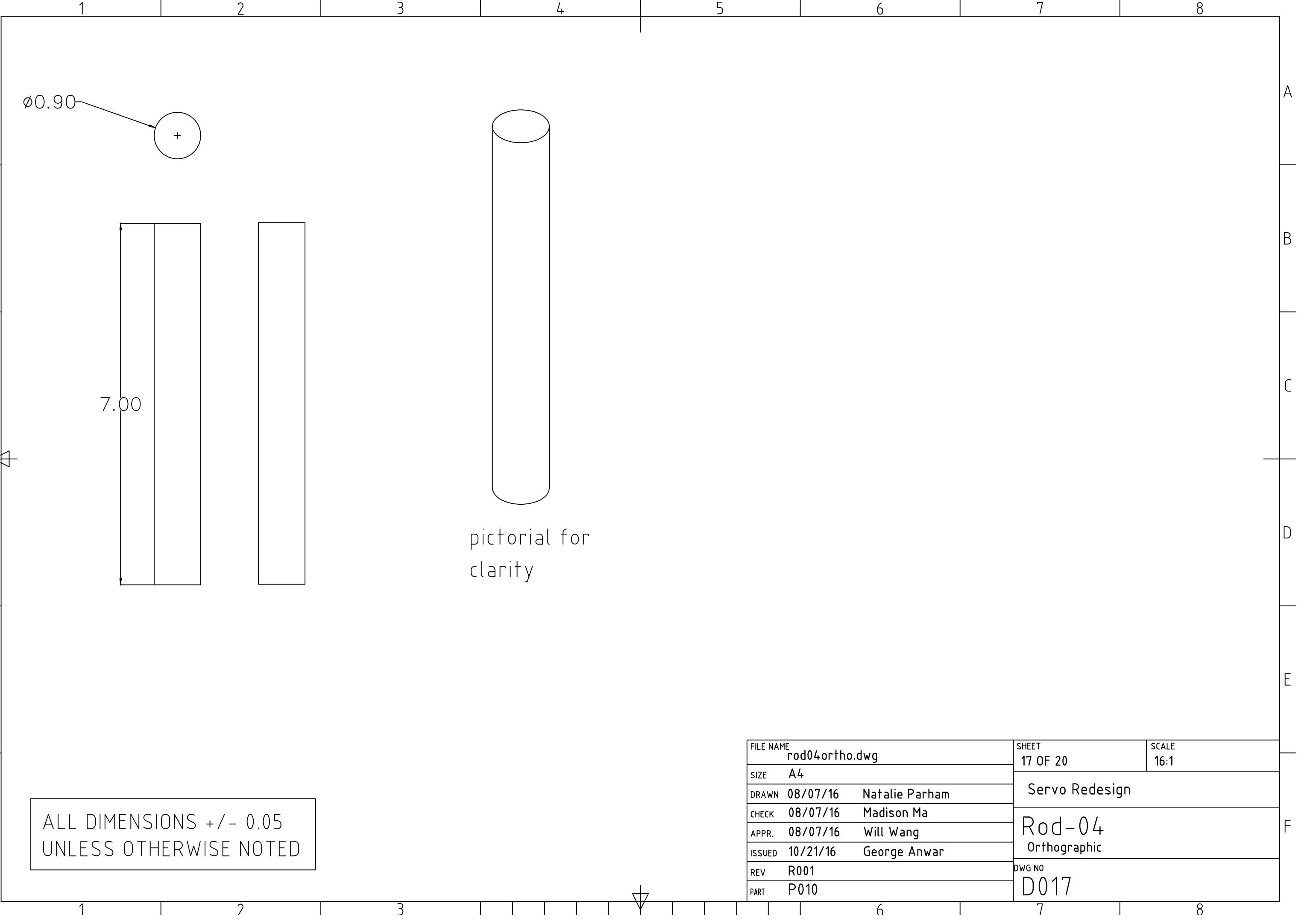
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	rod02ortho.dwg	SHEET	15 OF 20	SCALE	8:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16	Natalie Parham			
CHECK	08/07/16	Madison Ma			
APPR.	08/07/16	Will Wang			
ISSUED	10/21/16	George Anwar			
REV	R001	DWG NO			
PART	P008	D015			



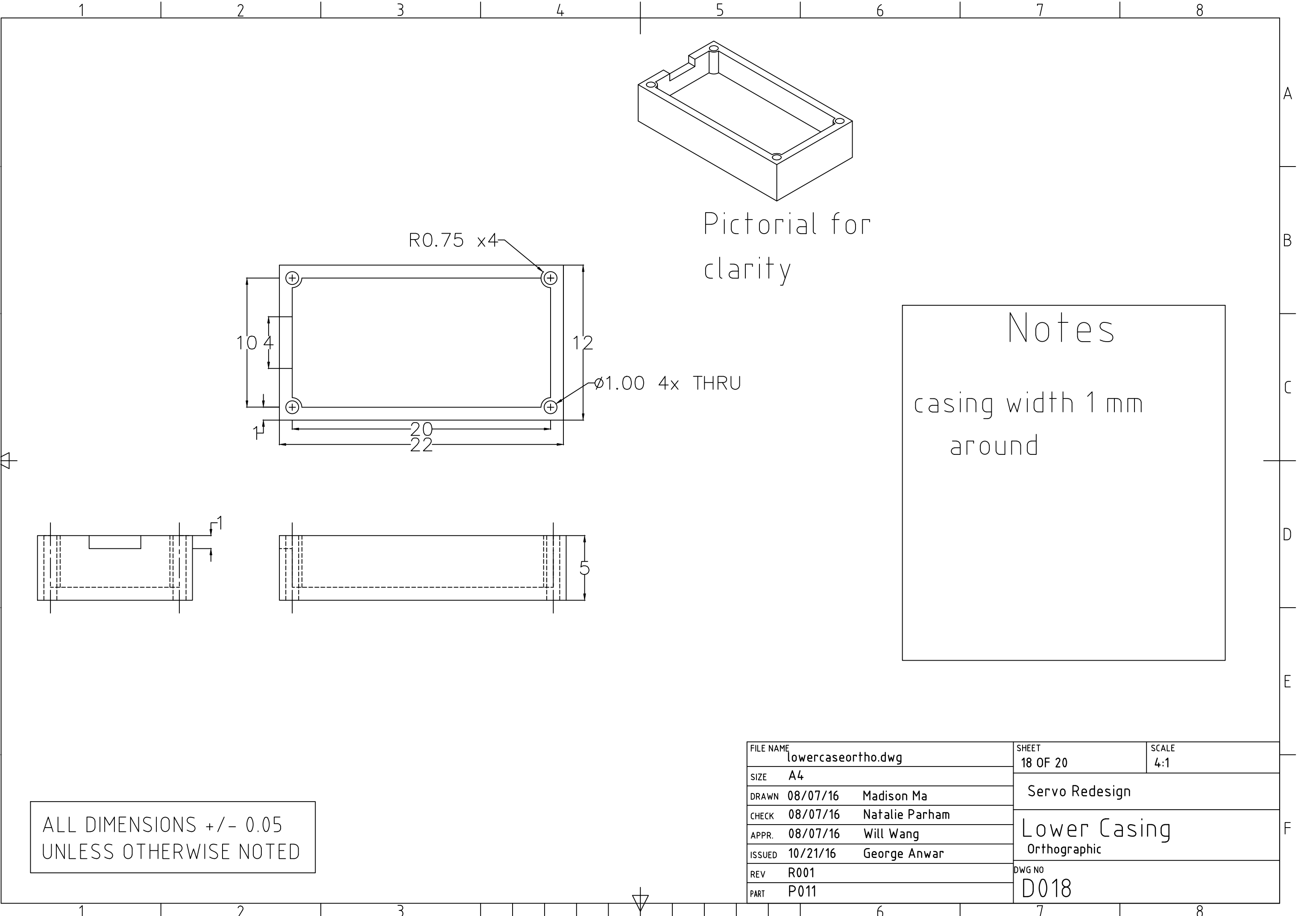
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	rod03ortho.dwg	SHEET	16 OF 20	SCALE	8:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16	Natalie Parham			
CHECK	08/07/16	Madison Ma			
APPR.	08/07/16	Will Wang			
ISSUED	10/21/16	George Anwar			
REV	R001	DWG NO			
PART	P006	D016			



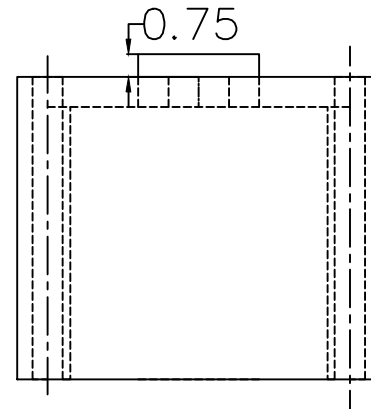
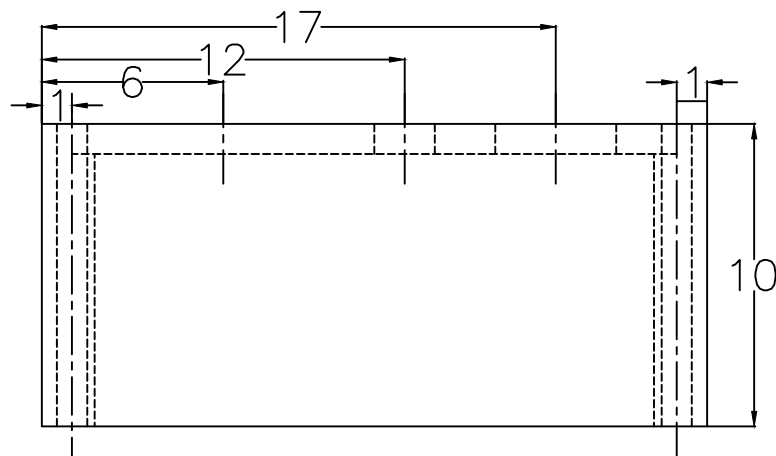
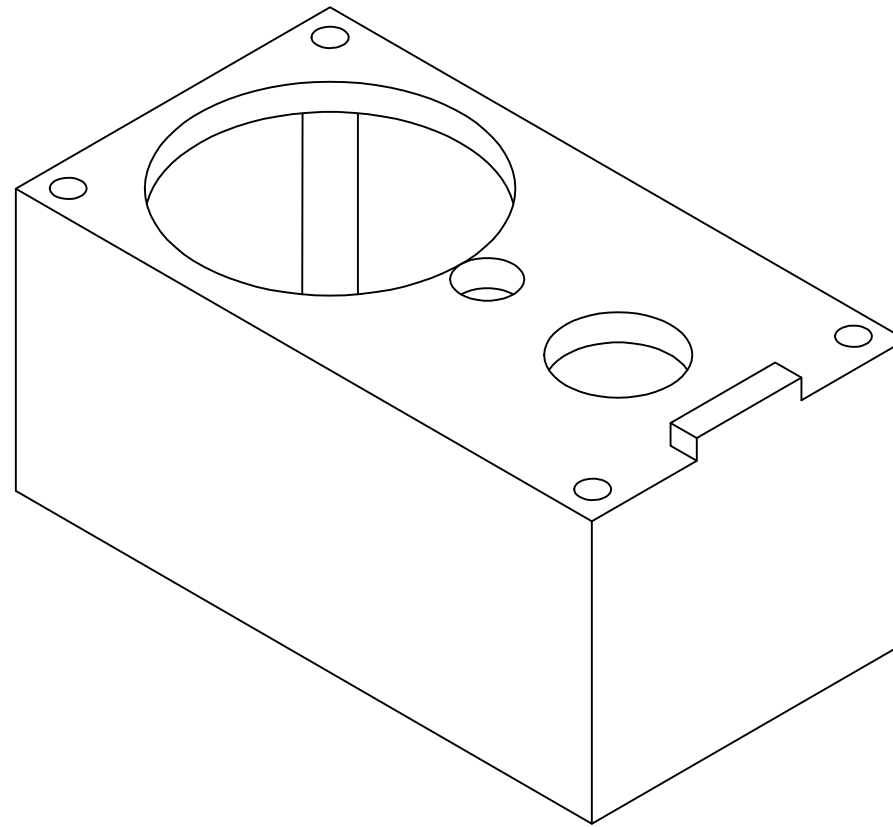
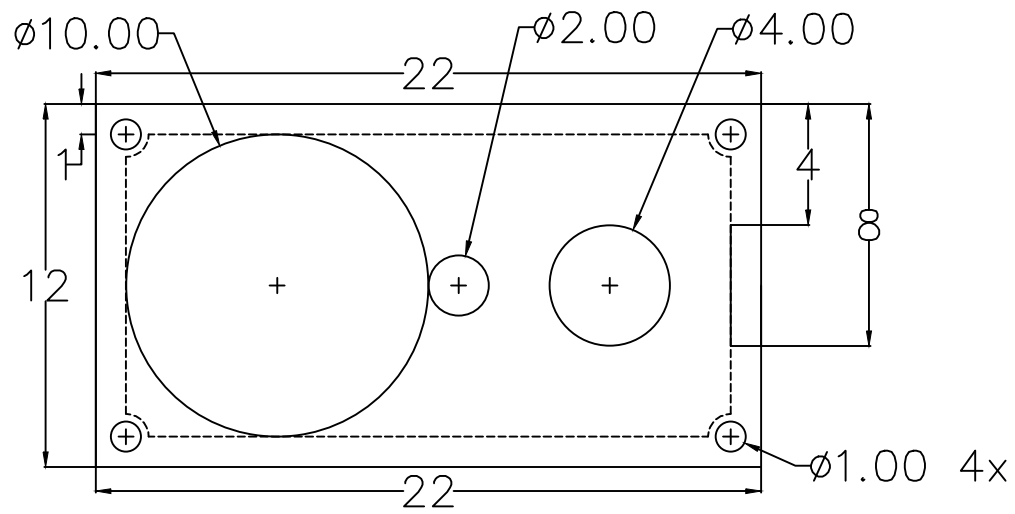
ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME rod04ortho.dwg		SHEET 17 OF 20	SCALE 16:1
SIZE A4		Servo Redesign Rod-04 Orthographic	
DRAWN 08/07/16	Natalie Parham		
CHECK 08/07/16	Madison Ma		
APPR. 08/07/16	Will Wang		
ISSUED 10/21/16	George Anwar	DWG NO D017	
REV R001			
PART P010			



ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	lowercaseortho.dwg	SHEET	18 OF 20	SCALE	4:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16	Madison Ma	Lower Casing Orthographic		
CHECK	08/07/16	Natalie Parham			
APPR.	08/07/16	Will Wang	DWG NO D018		
ISSUED	10/21/16	George Anwar			
REV	R001				
PART	P011				

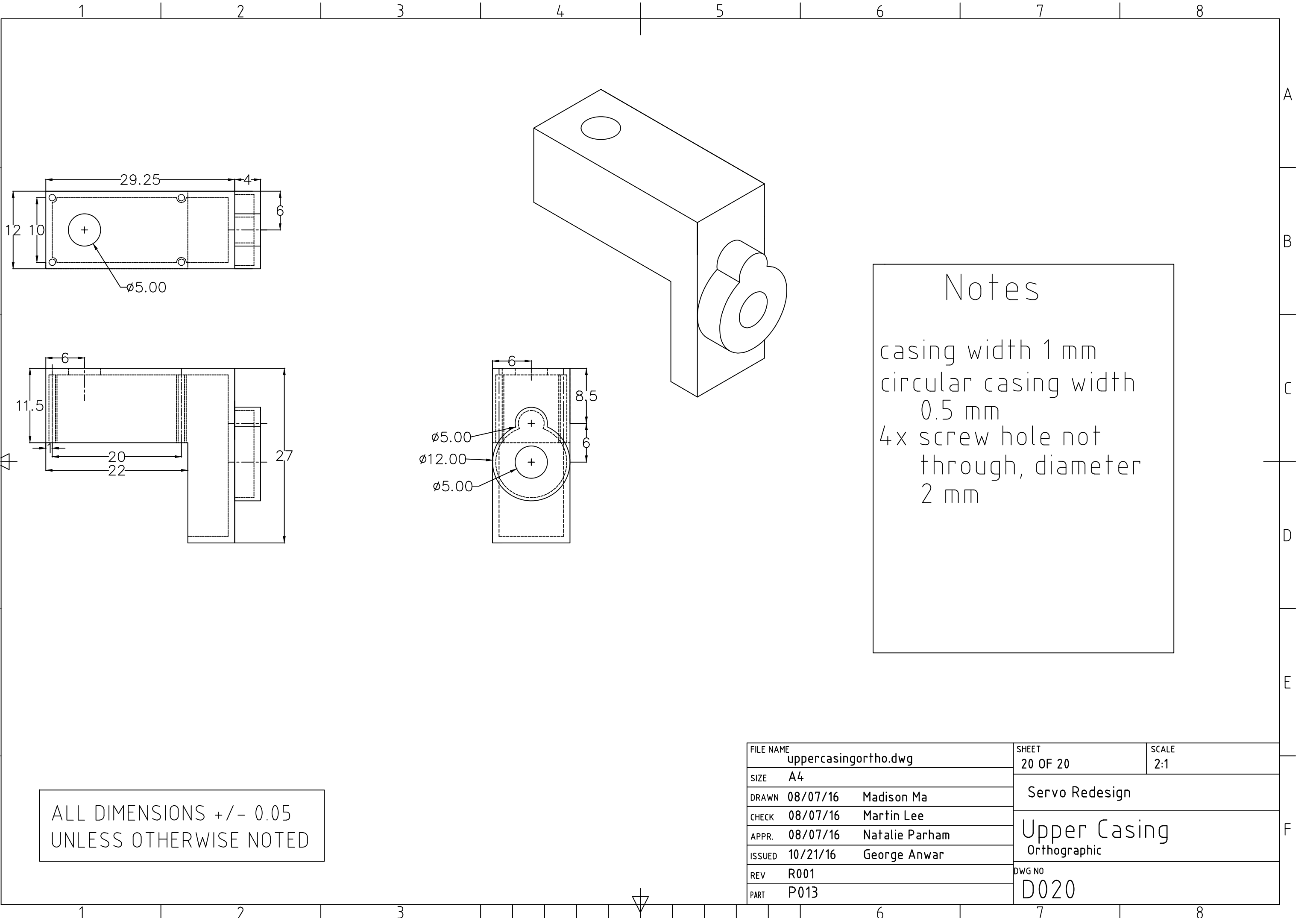


Notes

circular case width
0.5 mm
case width other-
wise 1 mm

ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME	middlecaseortho.dwg	SHEET	19 OF 20	SCALE	4:1
SIZE	A4	Servo Redesign			
DRAWN	08/07/16	Madison Ma	Middle Casing Orthographic		
CHECK	08/07/16	Natalie Parham			
APPR.	08/07/16	Will Wang	DWG NO D019		
ISSUED	10/21/16	George Anwar			
REV	R001				
PART	P012				



ALL DIMENSIONS +/- 0.05
UNLESS OTHERWISE NOTED

FILE NAME uppercasingortho.dwg			SHEET 20 OF 20	SCALE 2:1
SIZE A4			Servo Redesign	
DRAWN 08/07/16 Madison Ma				
CHECK 08/07/16 Martin Lee			Upper Casing Orthographic	
APPR. 08/07/16 Natalie Parham				
ISSUED 10/21/16 George Anwar				
REV R001				
PART P013			DWG NO D020	