
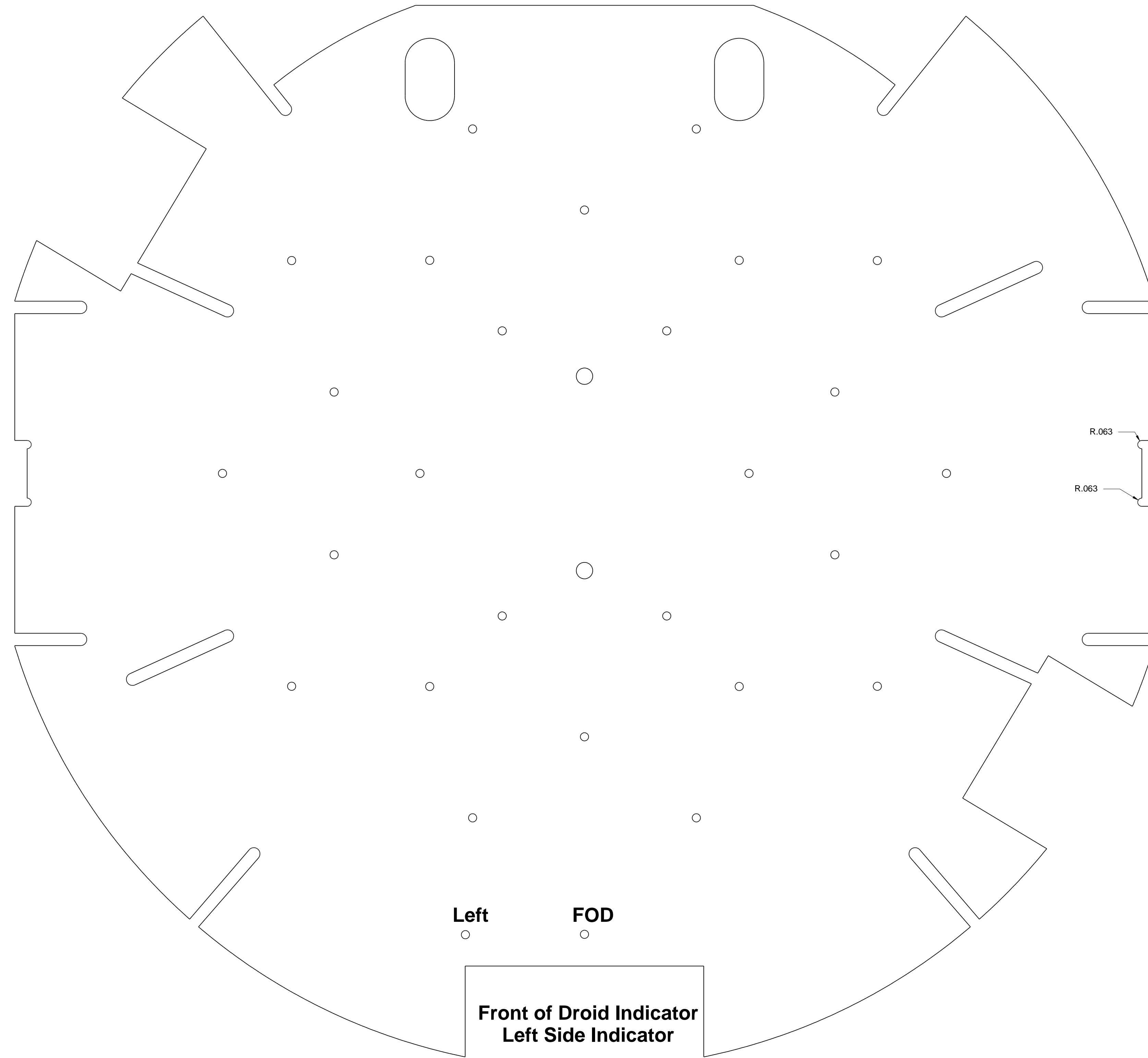


The balance of the skirt parts are the same as those used for the skirt supplied with the EggCrate Frame.  
See: <http://www.r2d2.media-conversions.net/R2.skirt.html>  
For both drawings and assembly instructions.  
Those parts are cut from .125 and .040 thick HIPS

### Ring 0 - Skirt Base

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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE <b>C</b>	FSCM NO.	DWG NO.	REV
		SCALE			SHEET



Left

FOD


Front of Droid Indicator  
Left Side Indicator

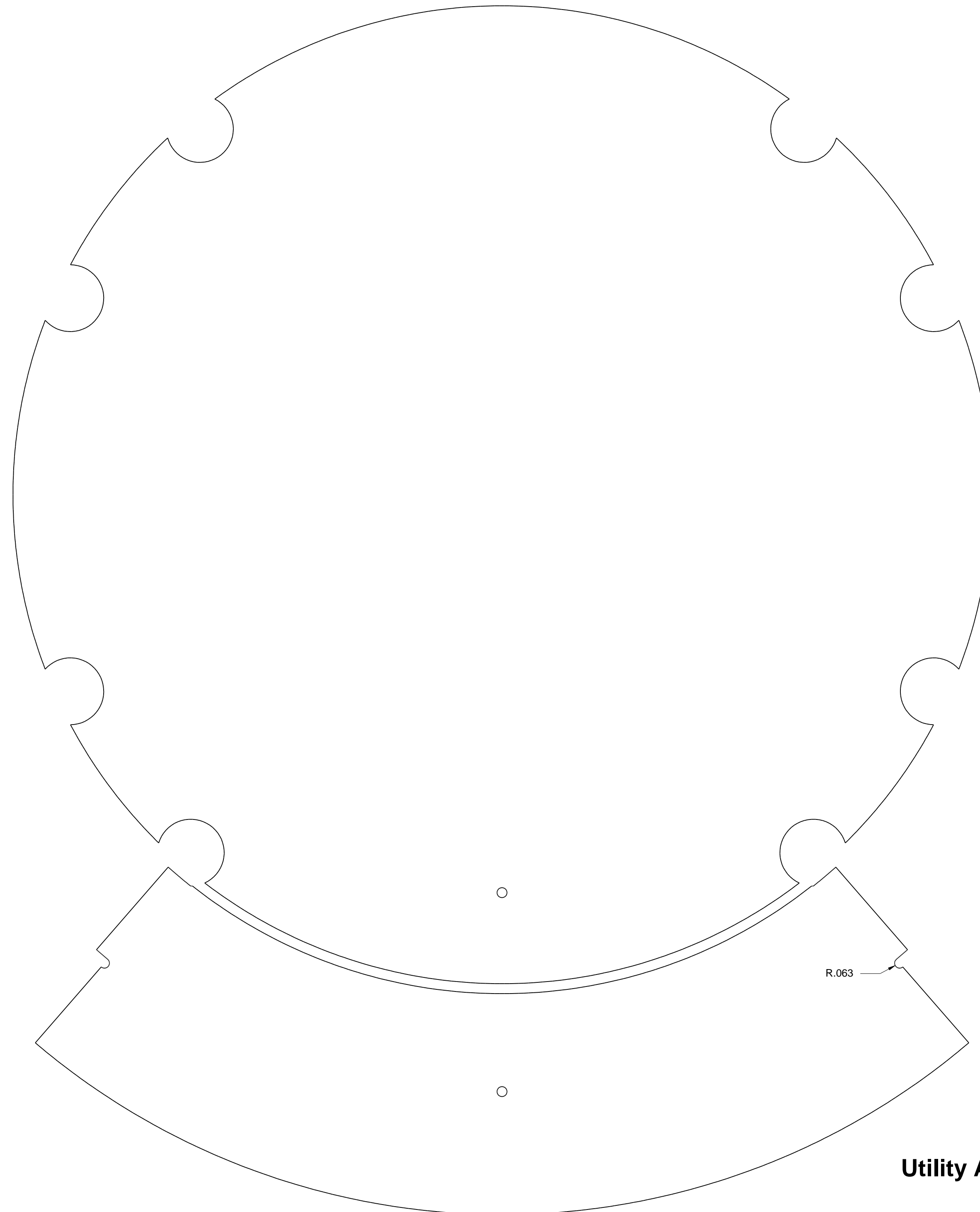
R.063

R.063

## Ring 1 - Frame Bottom

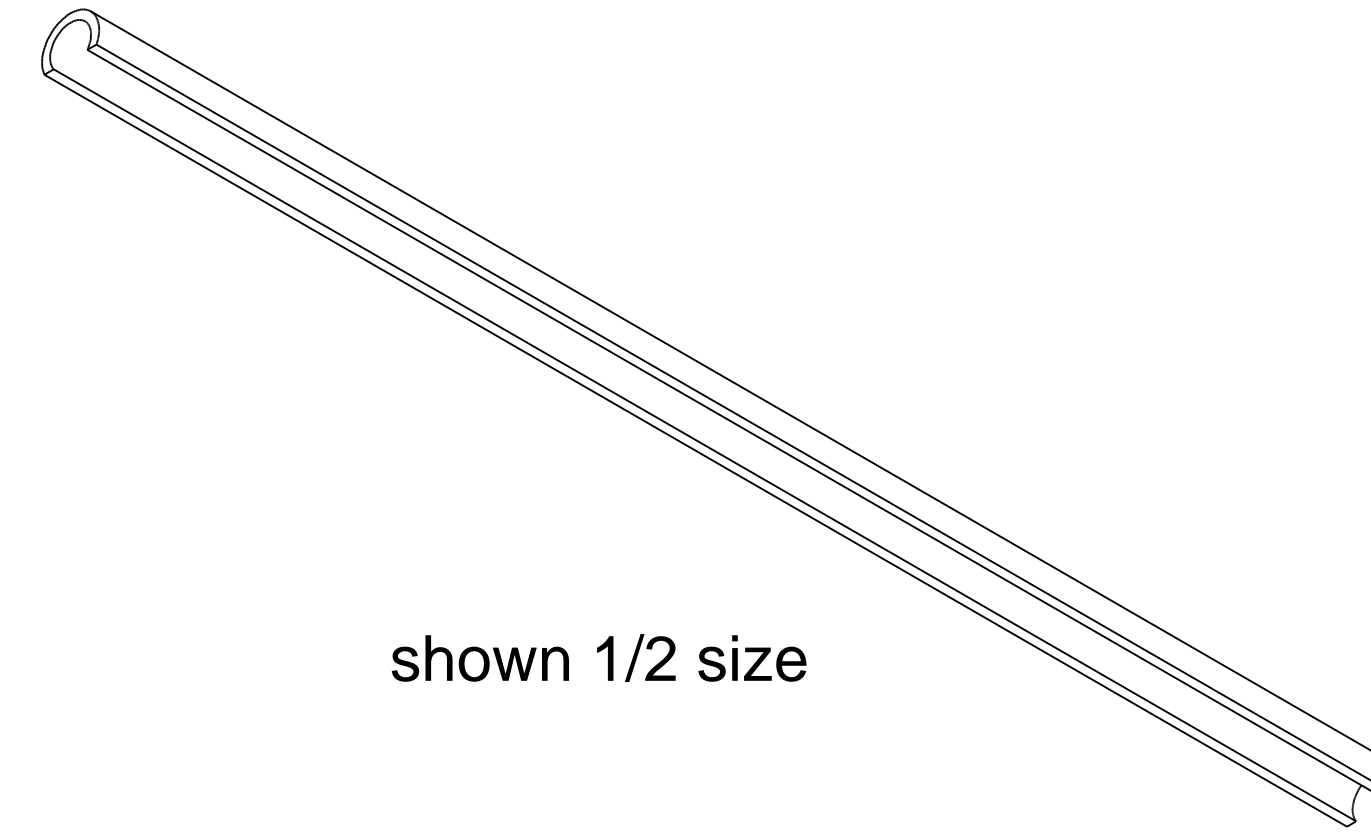
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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET

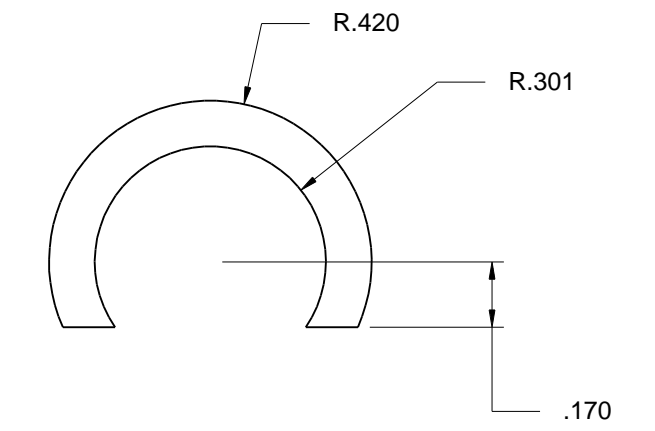


Utility Arm Ring - Lower

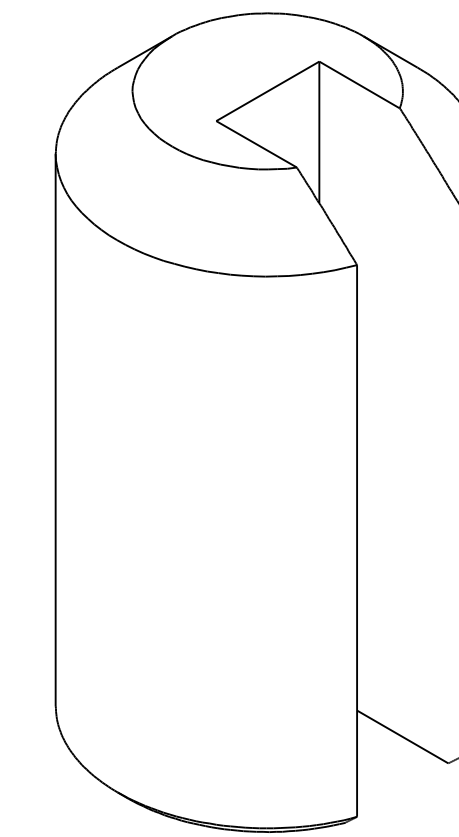
Schedule 40 1/2 inch PVC Pipe  
 Cut 19 3/16 long  
 .25 inch removed from edge



shown 1/2 size




shown 2x size



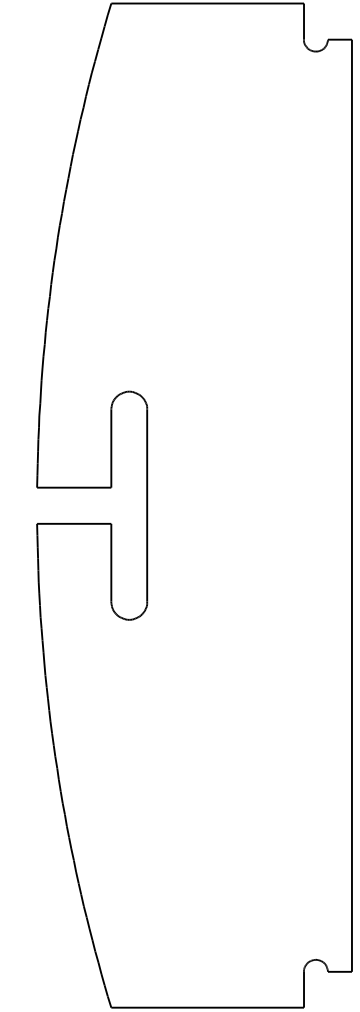
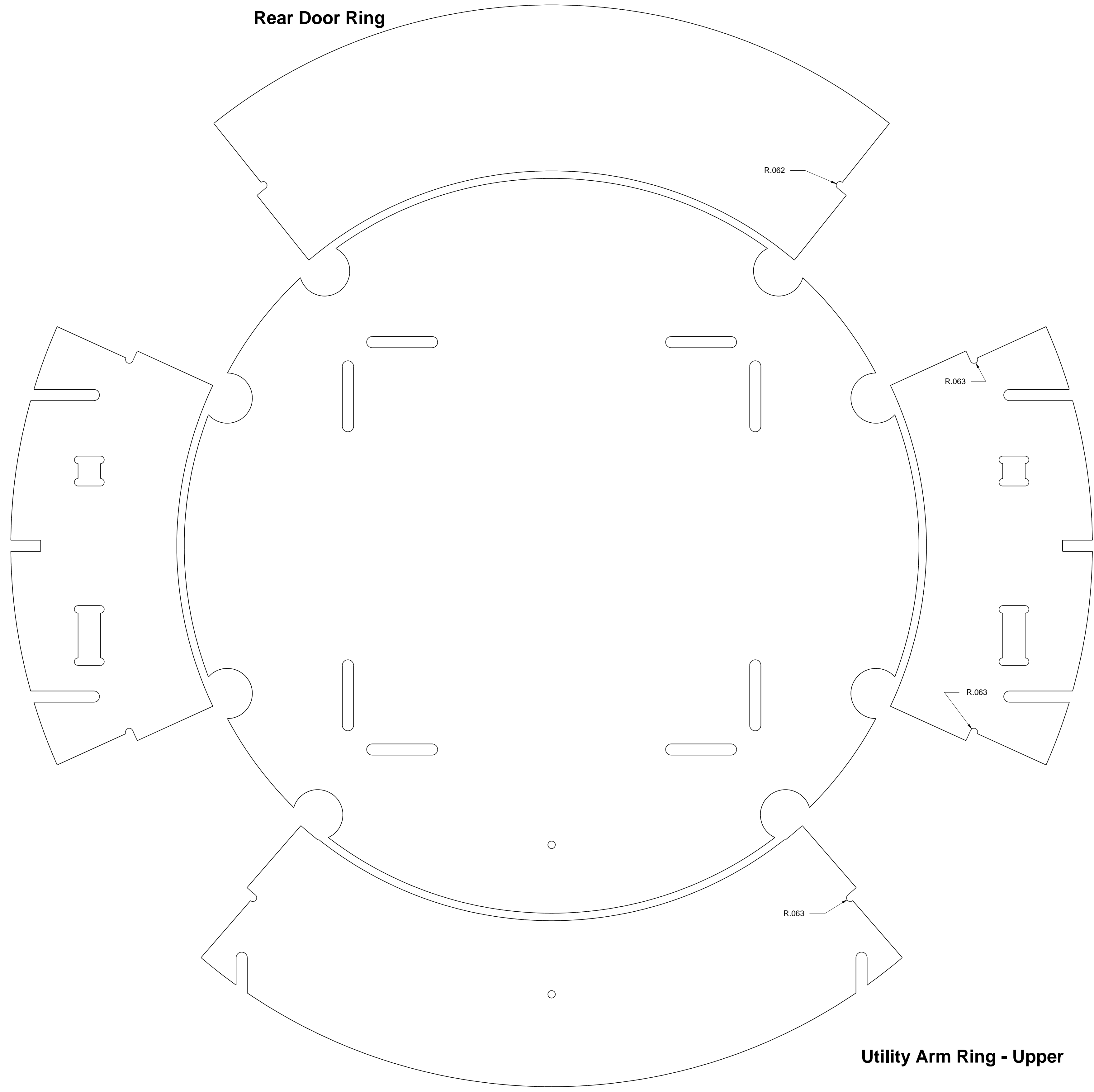
Slider  
 shown 5x size  
 consult Step design file for 3D printing

**Core 2**

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DRAWN	DATE				
CHECKED					
QA		SIZE	FSCM NO.	DWG NO.	REV
MFG		C			
APPROVED		SCALE			SHEET

Rear Door Ring



Ankle Slice Ring  
qty 2

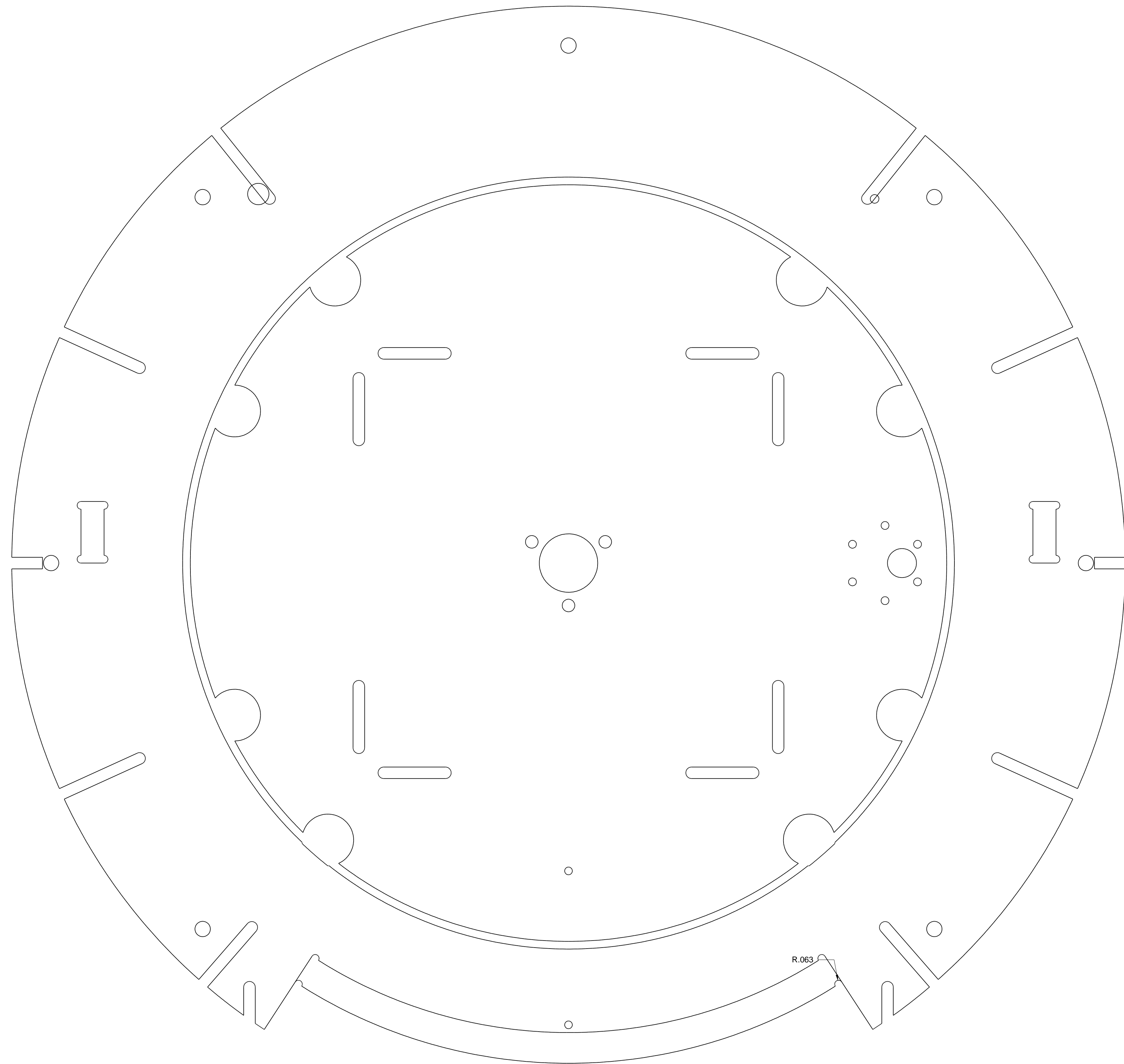
Under Shoulder Ring  
qty 2

Utility Arm Ring - Upper

### Ring 3 - Core 3

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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET




Bolt pattern in Core 4 is designed for Pololu 37D 100:1 gearmotor part #1106

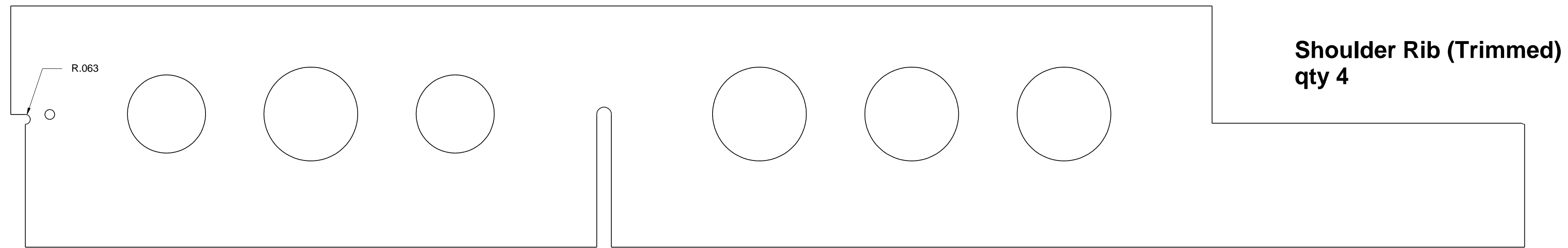
I used their 6mm hub to mount the Dome Motivator spur gear part #1083

[www.pololu.com](http://www.pololu.com)

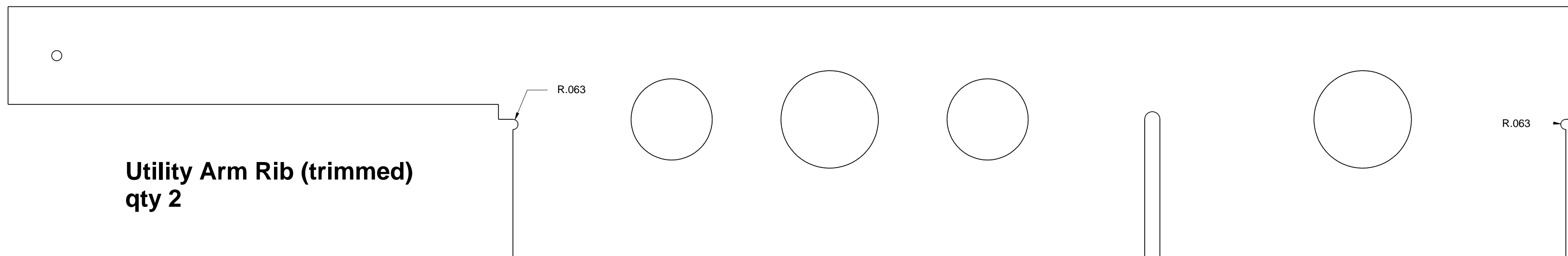
### Ring 4 & Core 4 - top

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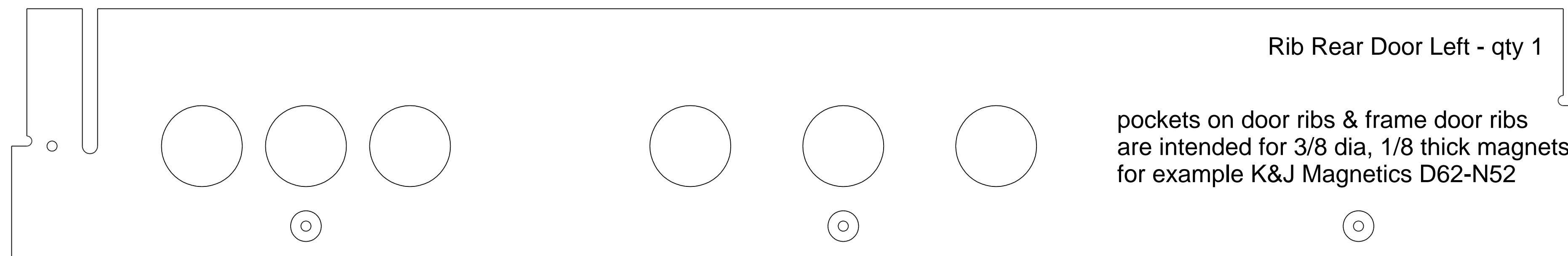
DRAWN	DATE				
CHECKED					
QA		SIZE	FSCM NO.	DWG NO.	REV
MFG		C			
APPROVED		SCALE			SHEET



**Shoulder Rib (Trimmed)**  
qty 4



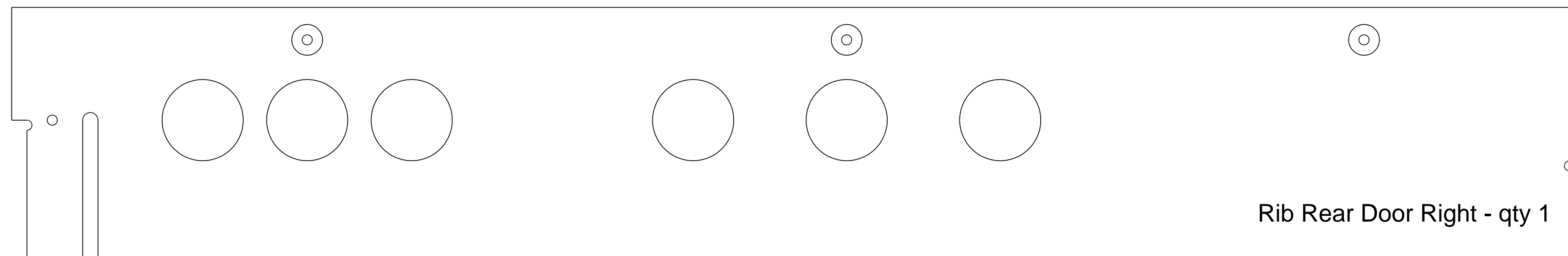
**Utility Arm Rib (trimmed)**  
qty 2



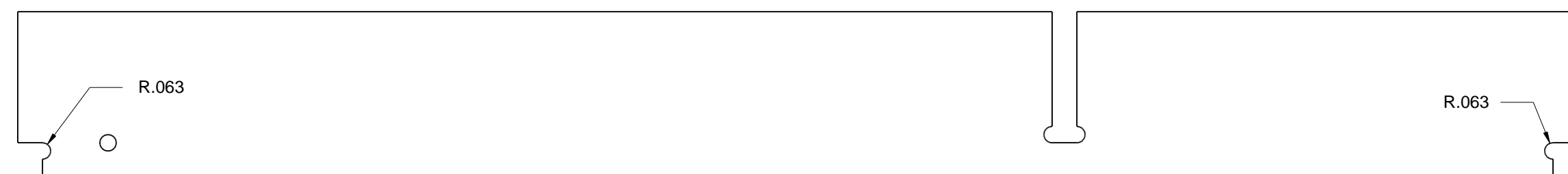
Rib Rear Door Left - qty 1

pockets on door ribs & frame door ribs  
are intended for 3/8 dia, 1/8 thick magnets  
for example K&J Magnetics D62-N52

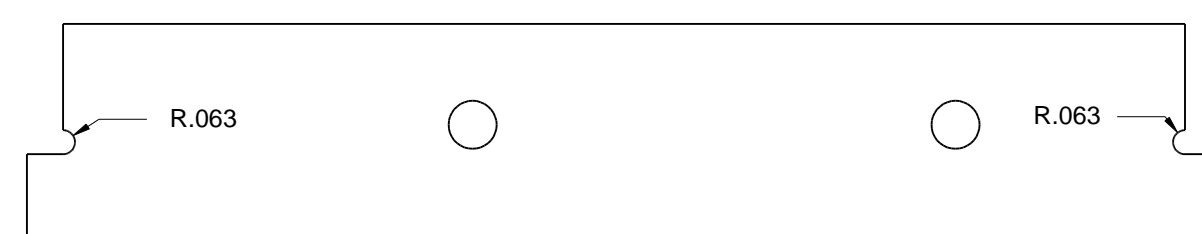
Rear Door Rib Pockets - .125 deep - 6 places



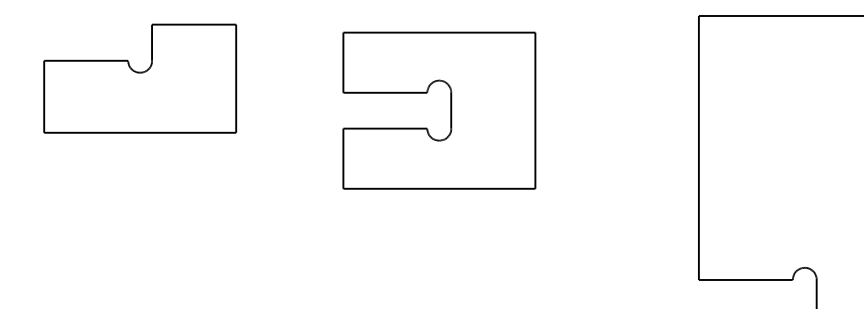
Rib Rear Door Right - qty 1



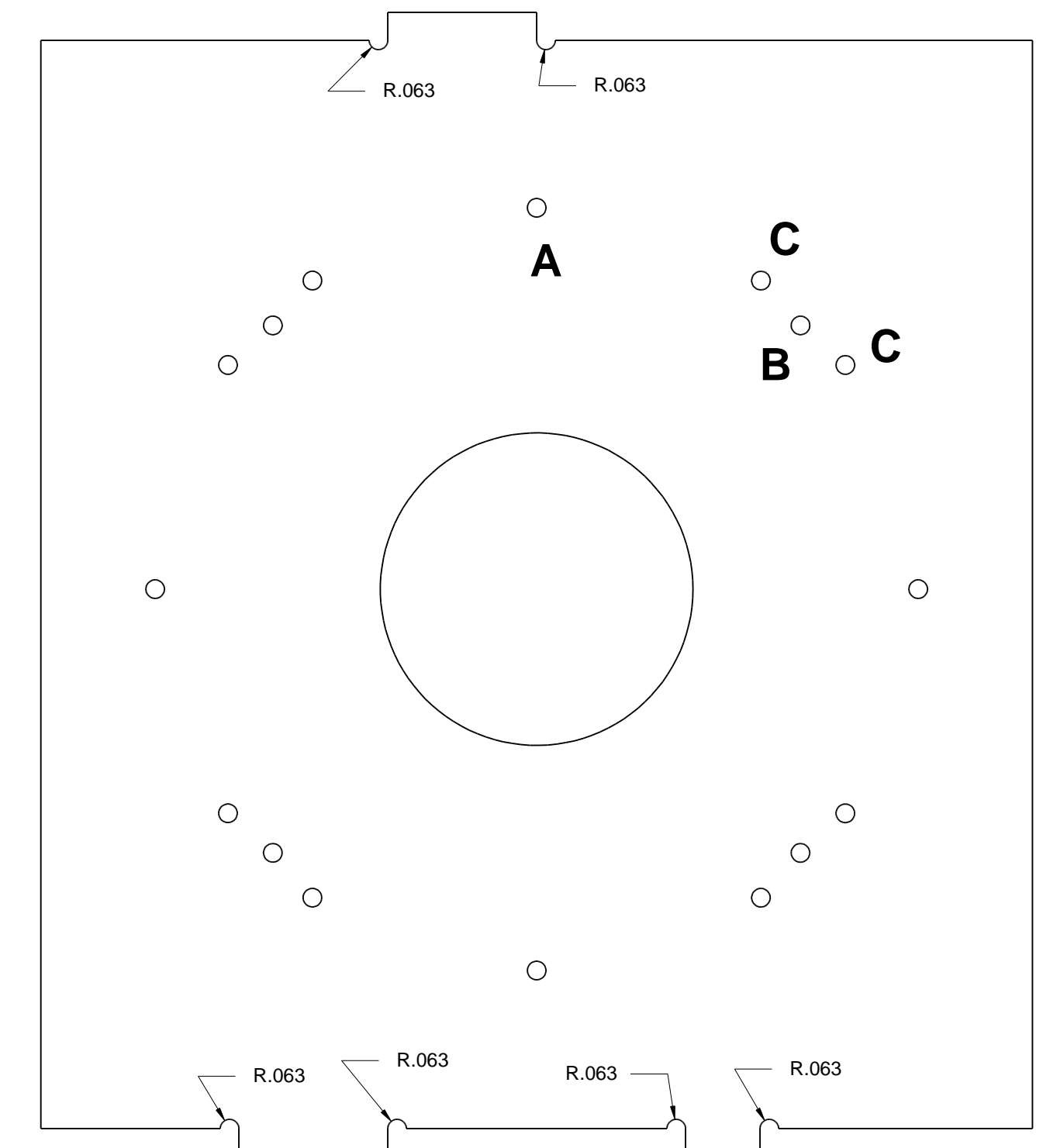
**Ankle Slice Rib**  
qty 4



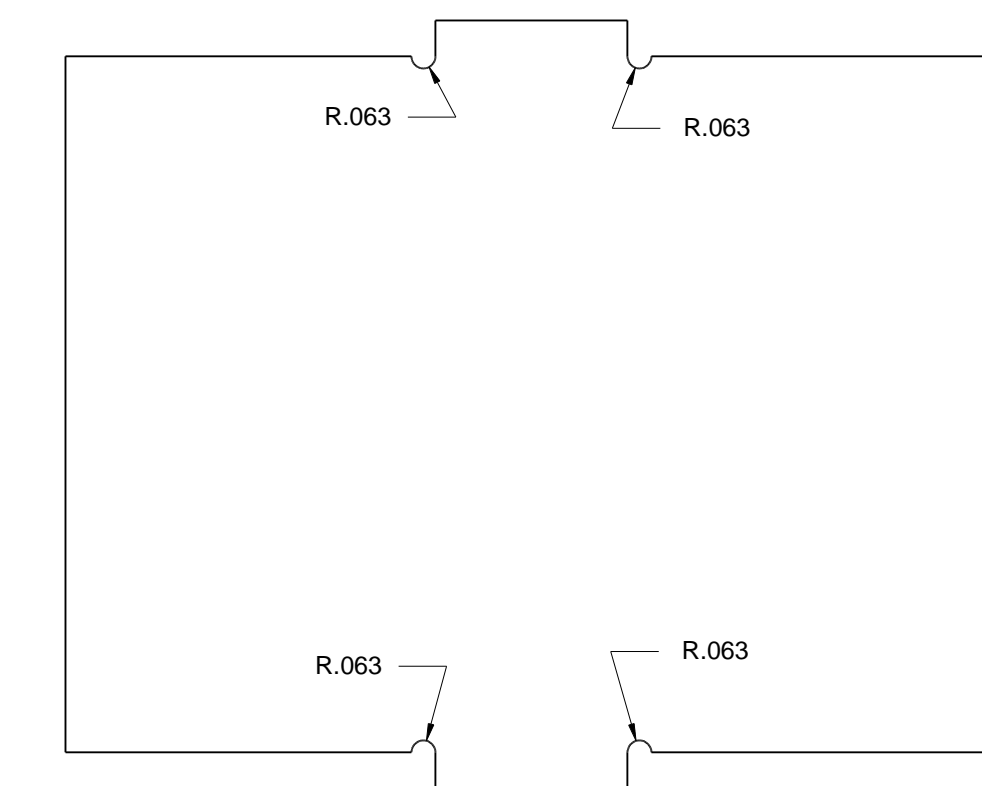
**Utility Arm Box Ribs**  
qty 2  
Insert 8-32 Nutserts  
as shown in assembly drawings



**Skin Support Ribs**  
upper - middle - lower  
qty 2 each



**Shoulder Plate - qty 4**  
Mounting holes marked  
A are for CSR legs in the 2-leg position  
B are for MC Legacy 2 or 3 Leg Shoulder hubs  
C are for CSR legs in the 3-leg position



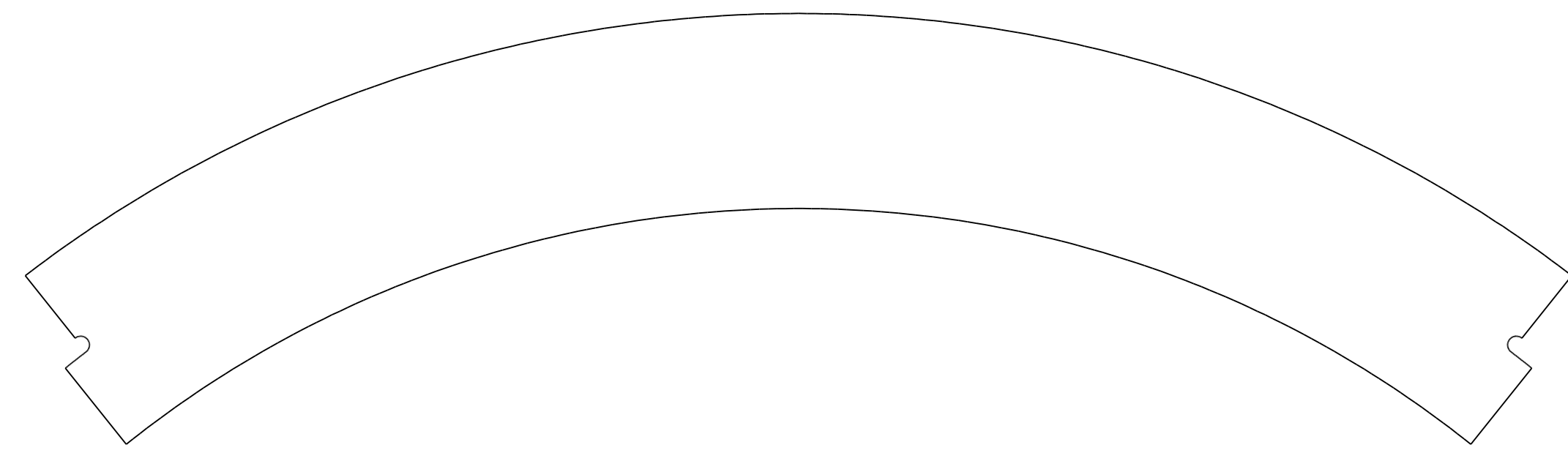
**Ankle Slice Plate**  
qty 2

**Ribs & Plates**

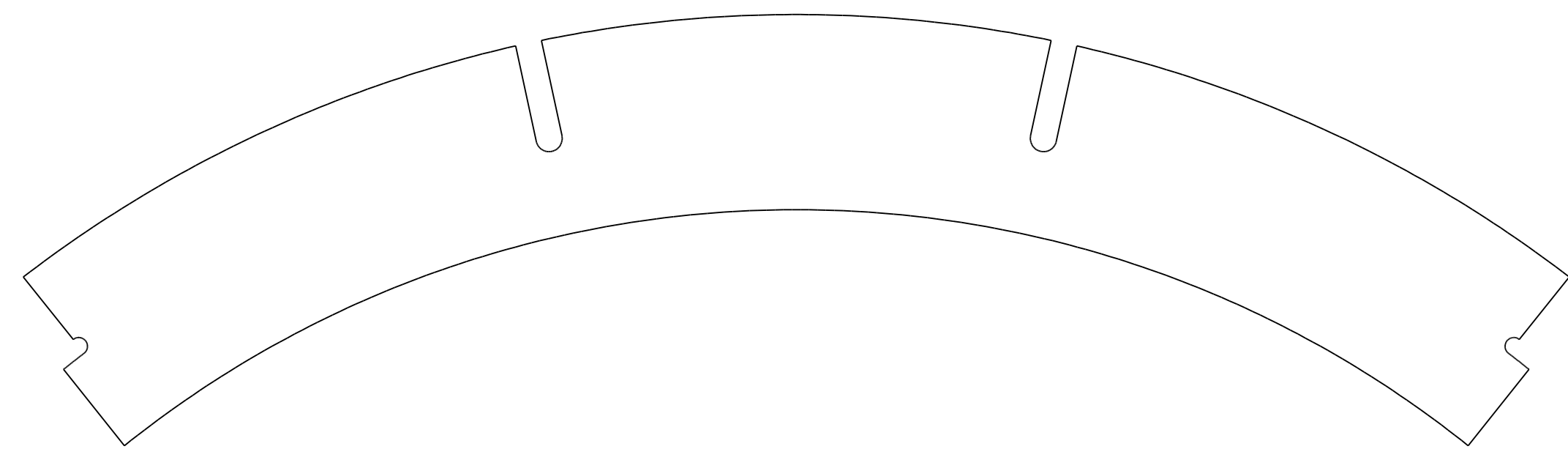
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DRAWN	DATE			
CHECKED				
QA				
MFG				
APPROVED				
SIZE C	FSCM NO.	DWG NO.	REV	
SCALE			SHEET	





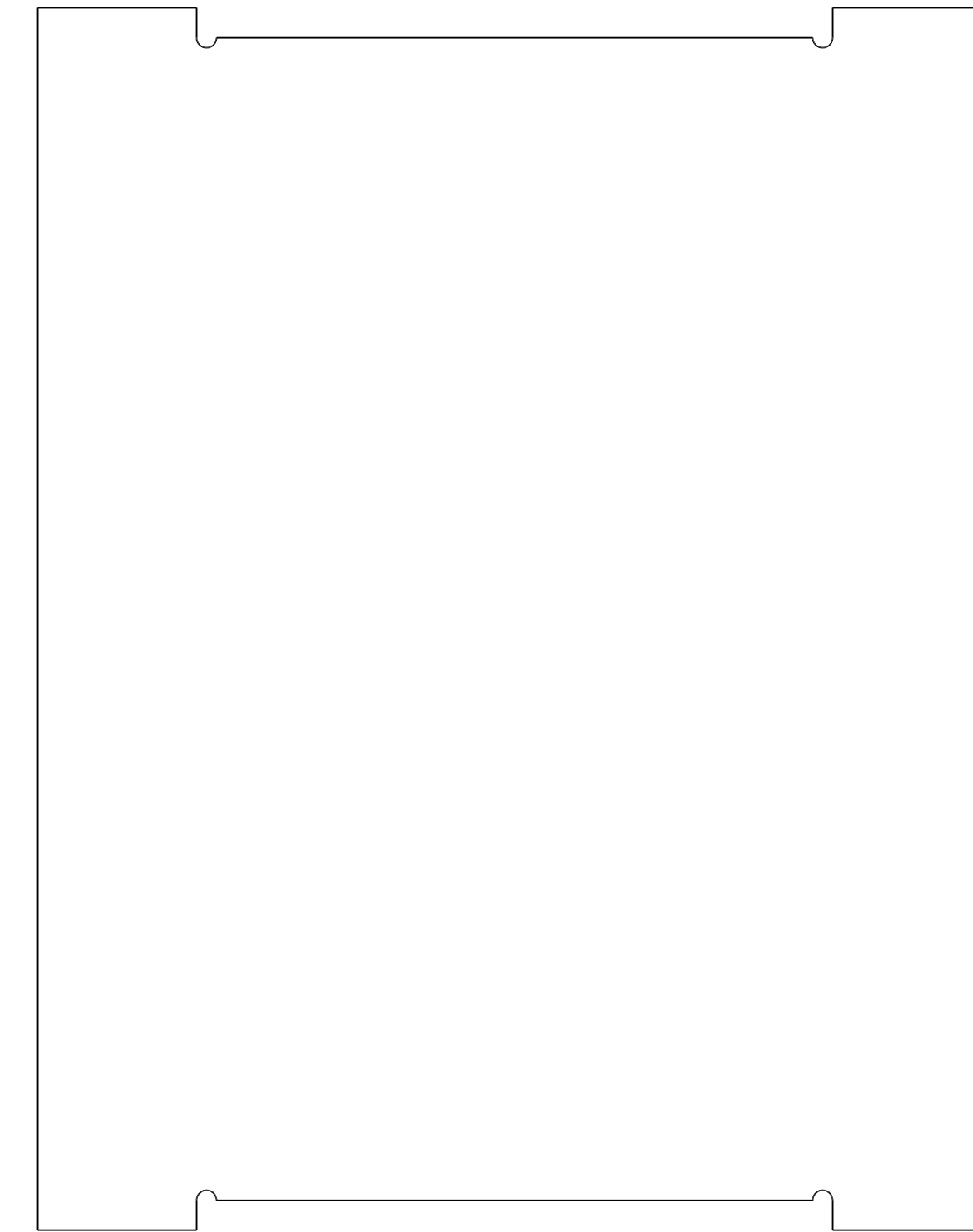
Door Top Ring



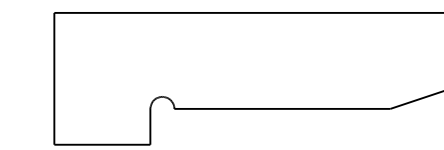
Door Middle Ring - qty 2



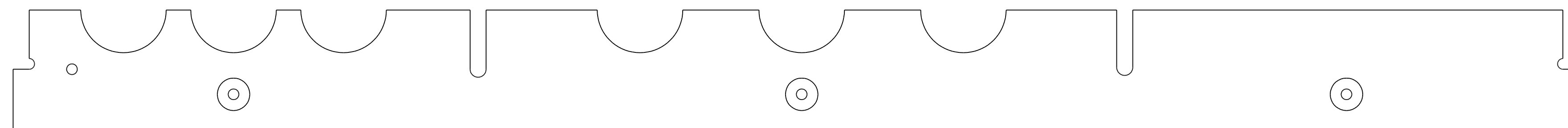
Door Bottom Ring



Core Mounting Panel  
qty 2

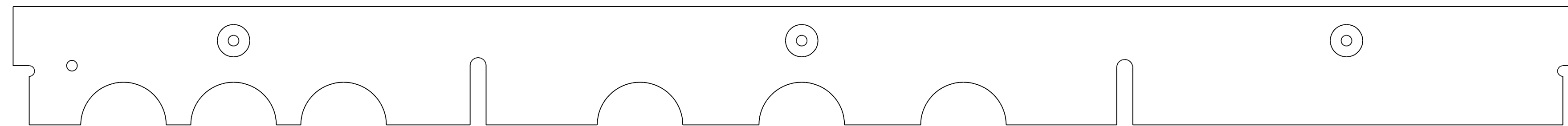


Door Key  
qty 2



Door Outer Rib Right  
Qty 1

Outer Door Rib Pockets - .125 deep - 6 places



Door Outer Rib Left  
Qty 1

pockets on door ribs & frame door ribs  
are intended for 3/8 dia, 1/8 thick magnets  
for example K&J Magnetics D62-N52

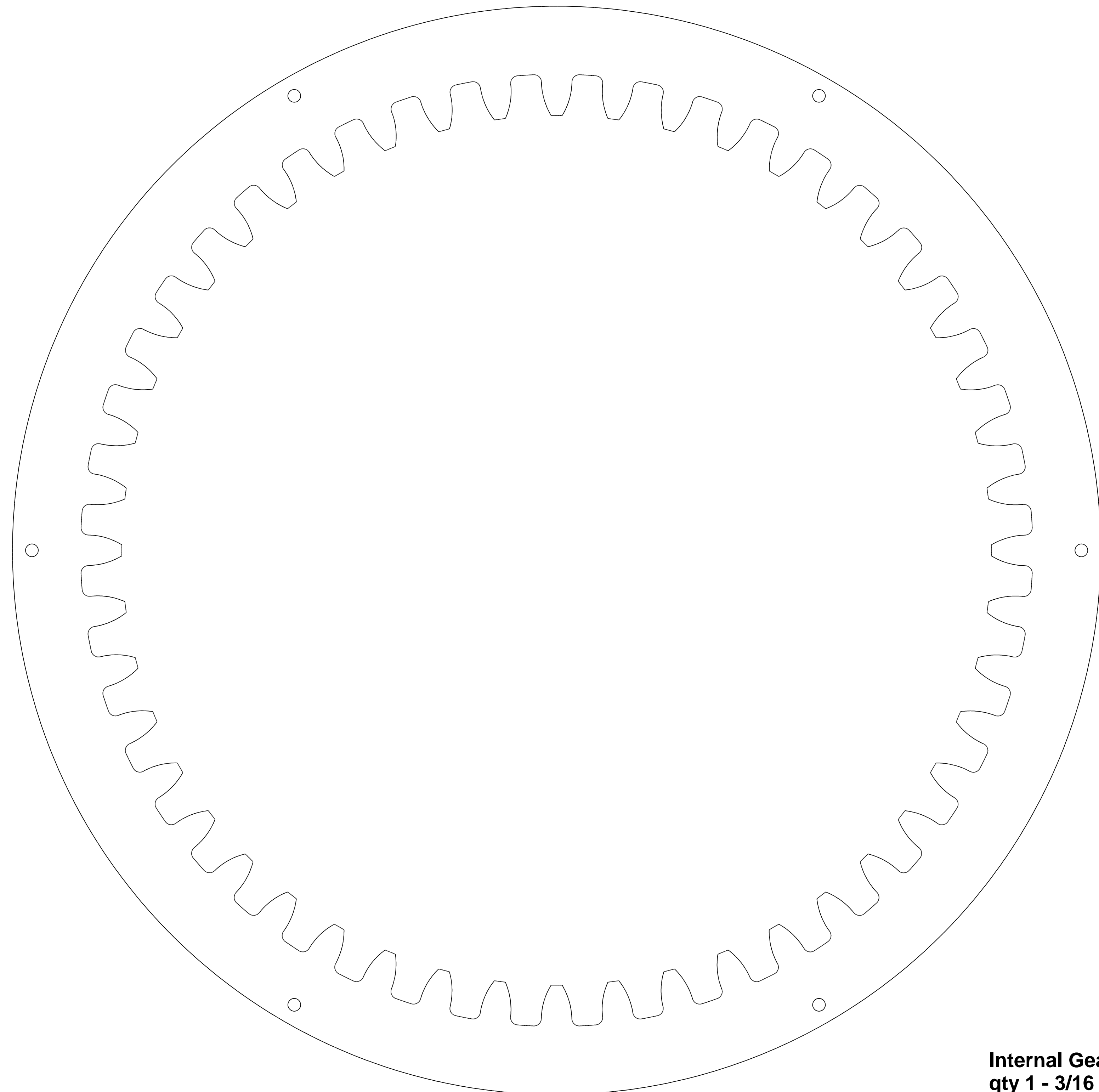


Door Inner Rib - qty 2

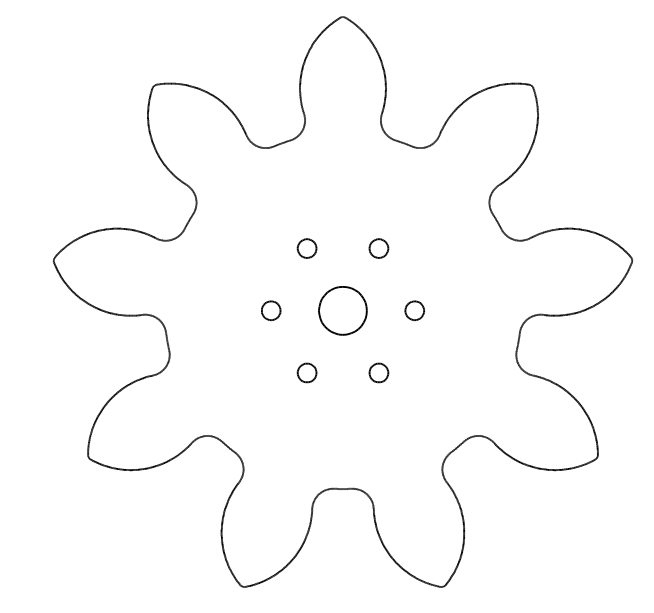
### Rear Door Parts

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DRAWN	DATE				
CHECKED					
QA		SIZE C	FSCM NO.	DWG NO.	REV
MFG		SCALE		SHEET	
APPROVED					



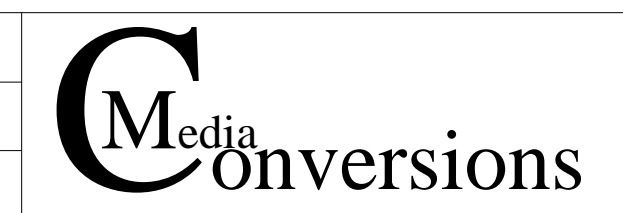
**Internal Gear**  
qty 1 - 3/16 thick



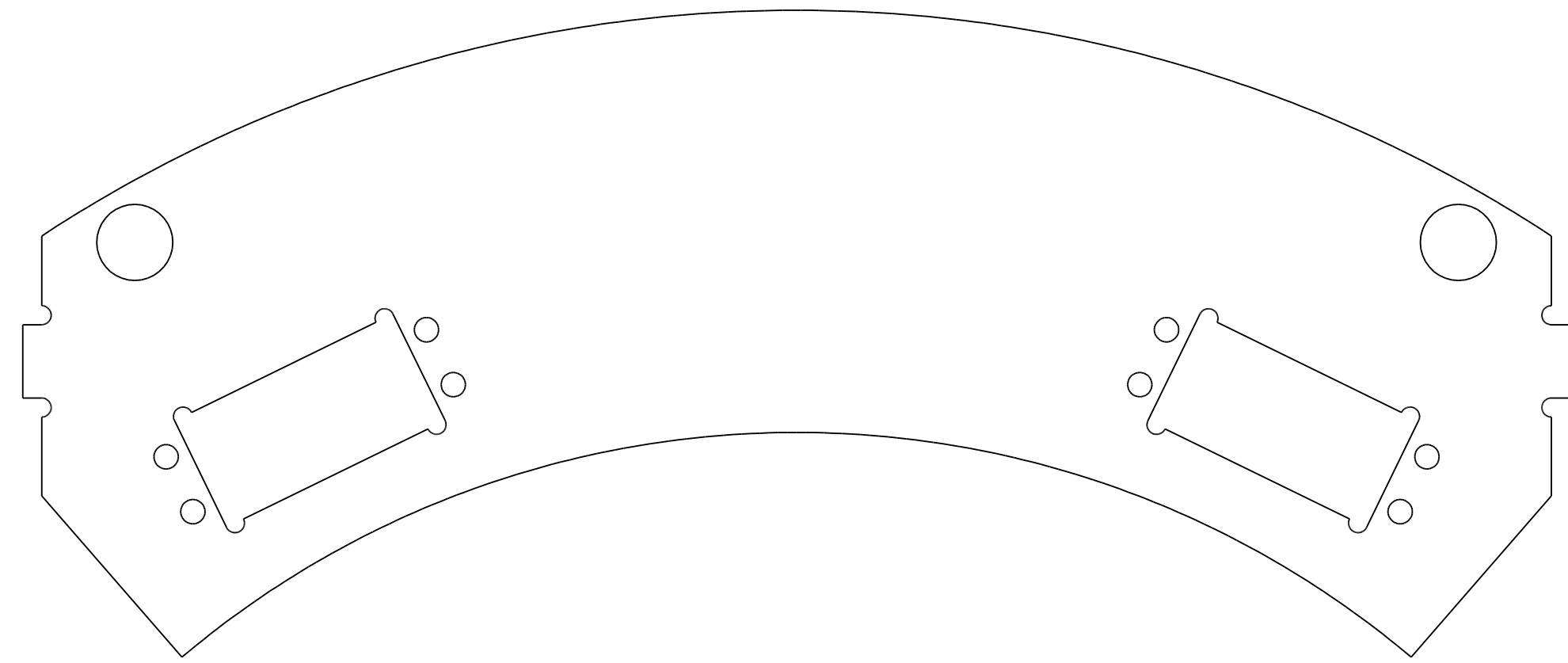
**Spur Gear**  
qty 1 - 3/16 thick

### Dome Motivator

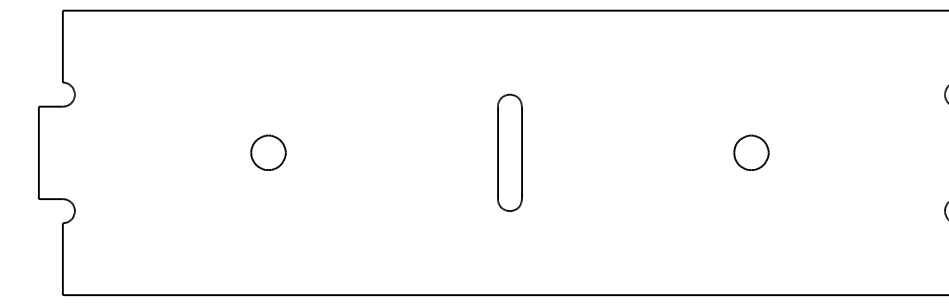
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DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET

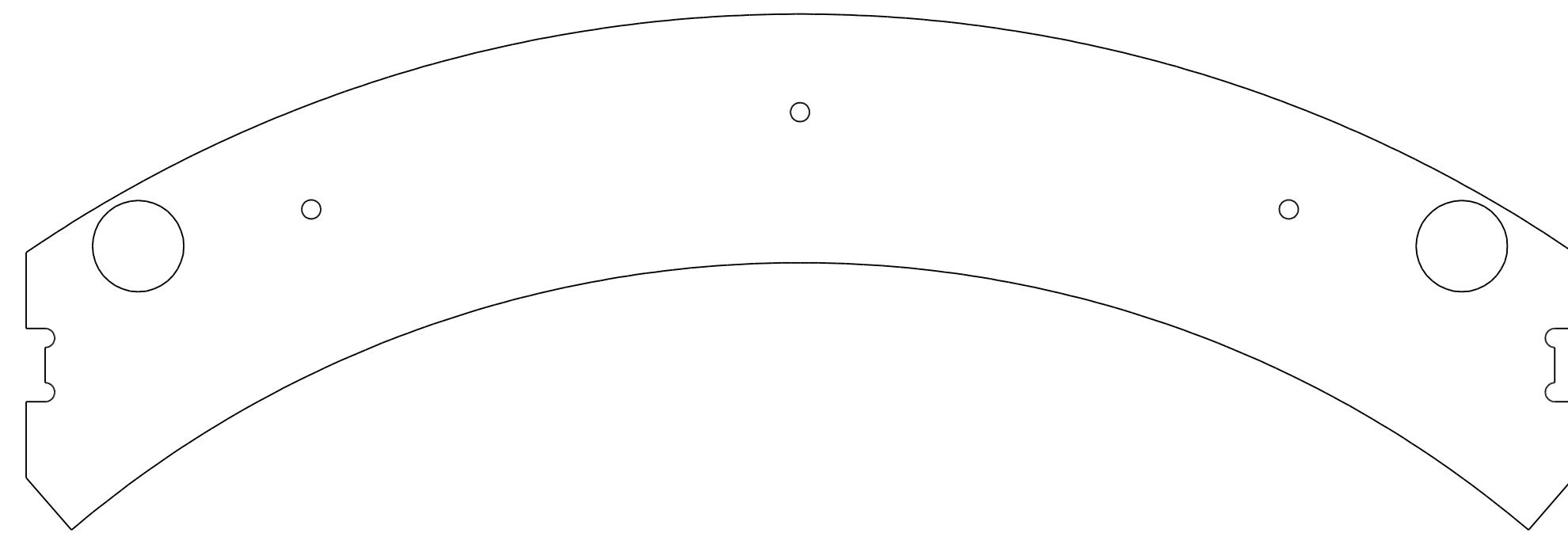




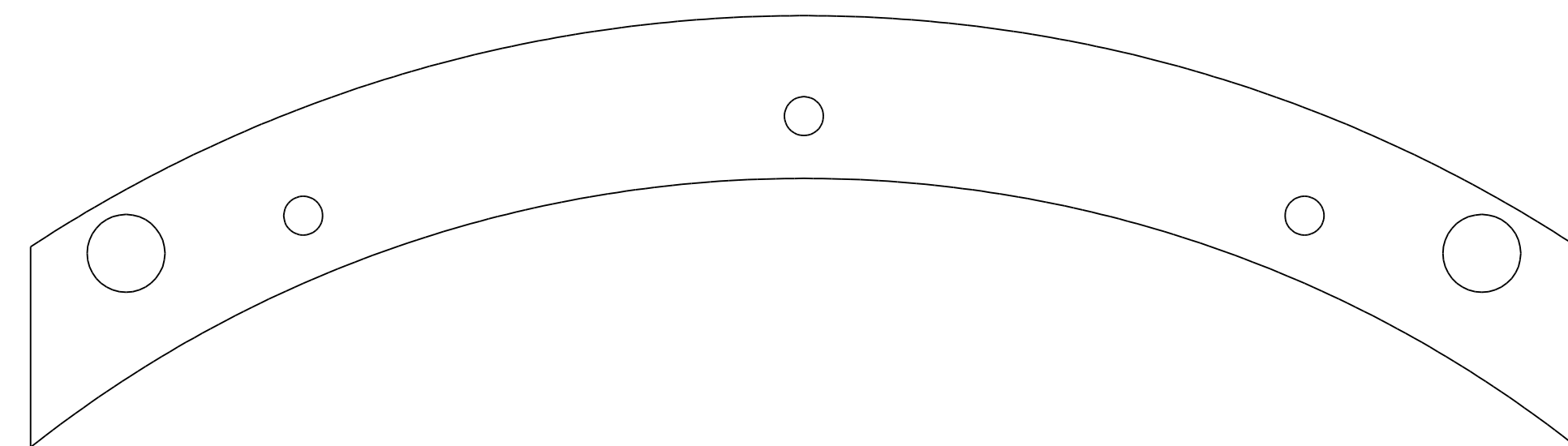
**Arm Box Servo Mount**  
qty 1 - .125 thick



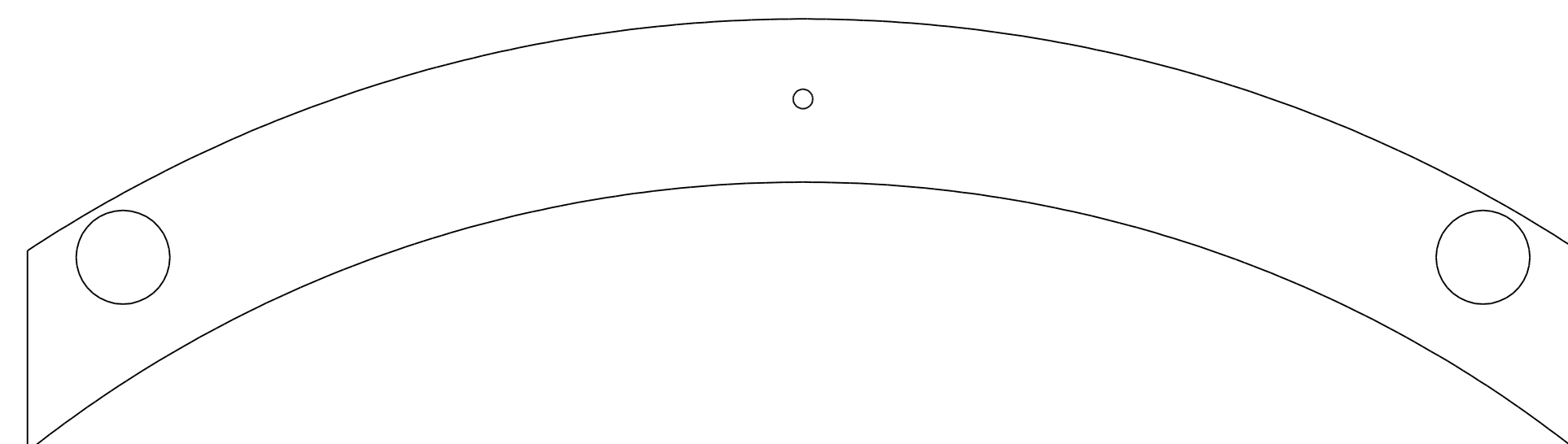
**Arm Box Side**  
qty 2 - .125 thick



**Arm Box Top/Bottom**  
qty 2 - .125 thick




**Arm Box Inside - small hole**  
qty 2 - .125 thick

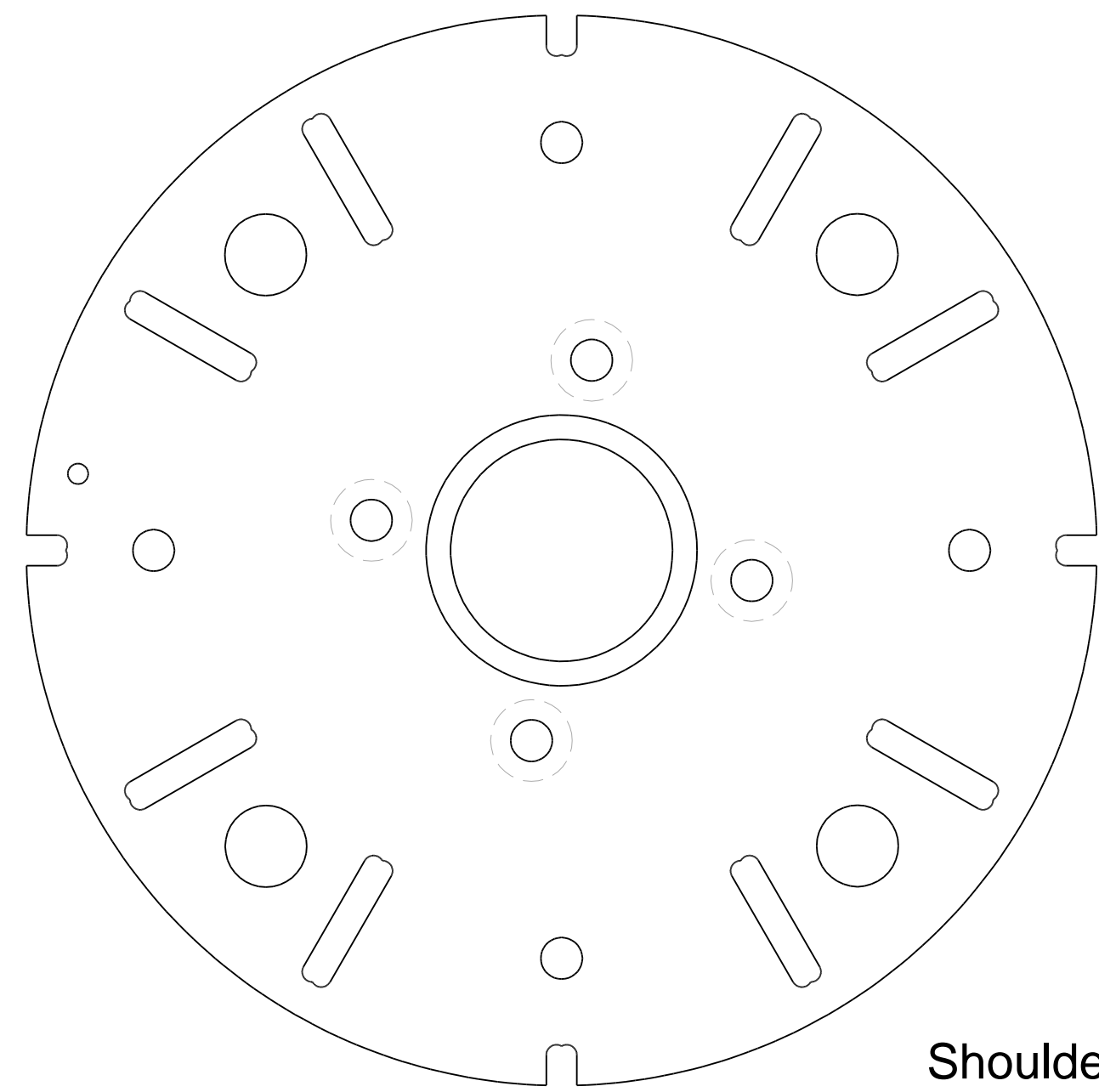


**Arm Box Inside - large hole**  
qty 2 - .125 thick

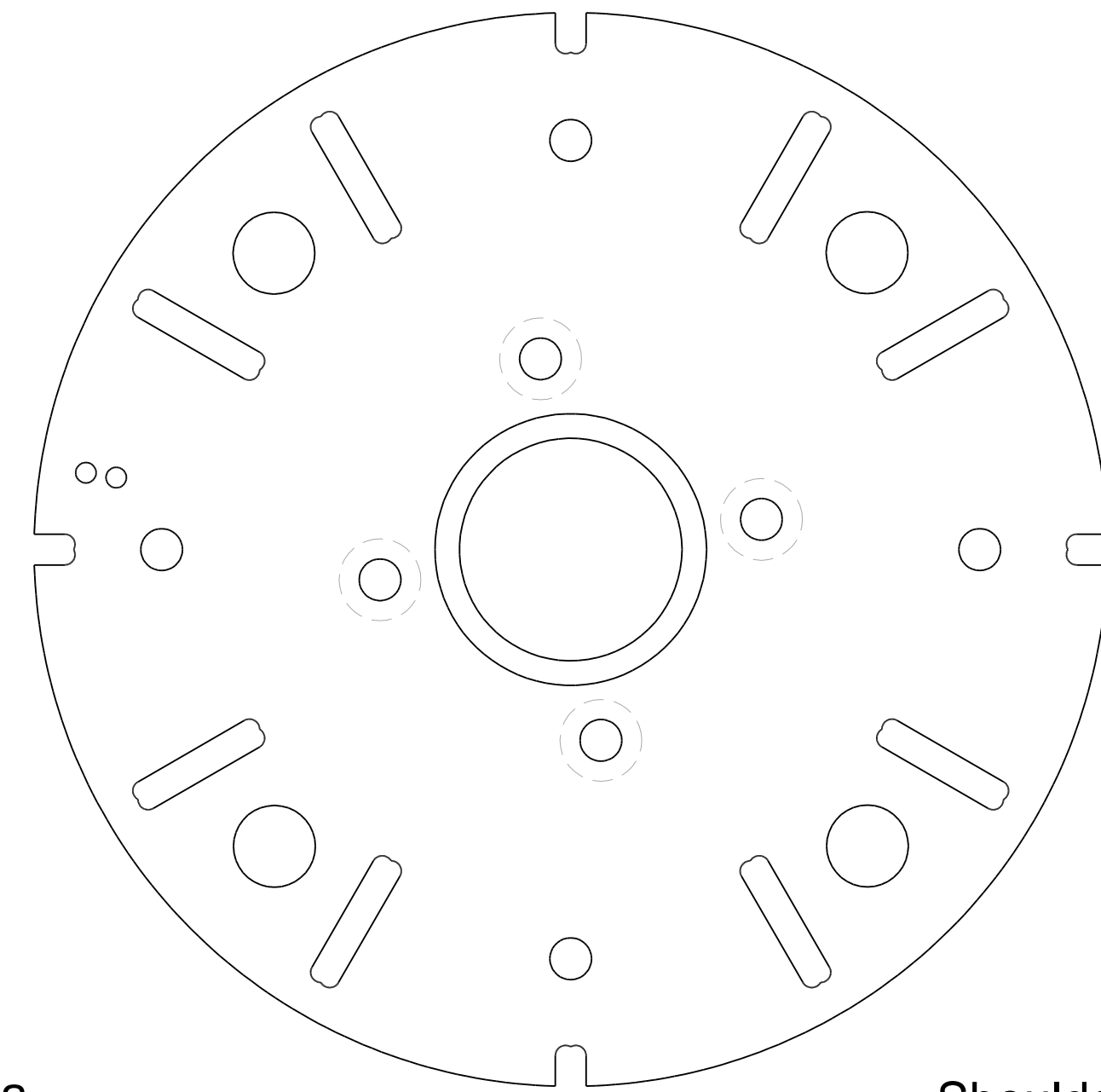
## Utility Arm Box with Servos

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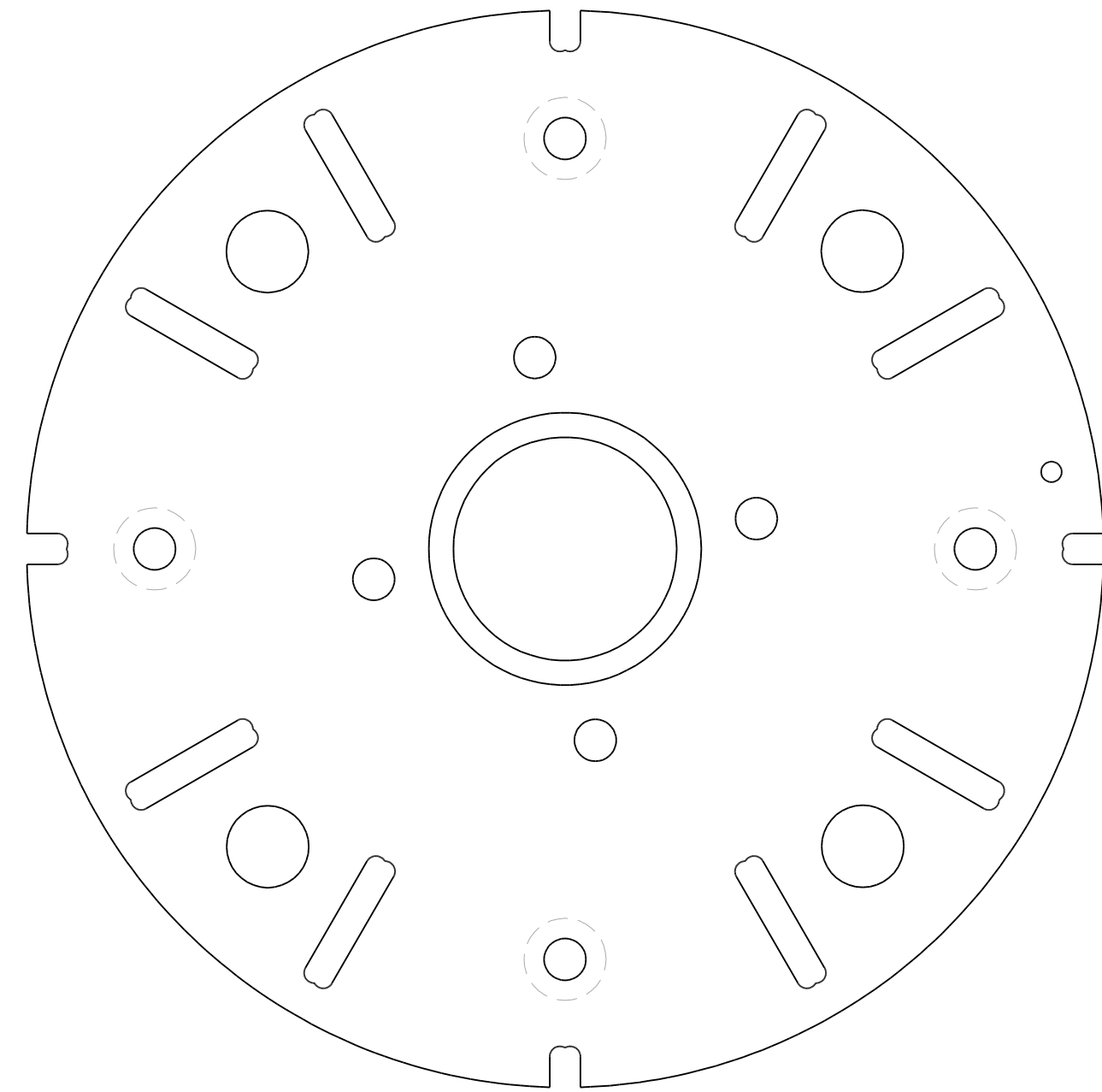
DRAWN	DATE				
CHECKED					
QA					
MFG					
APPROVED		SIZE C	FSCM NO.	DWG NO.	REV
		SCALE			SHEET



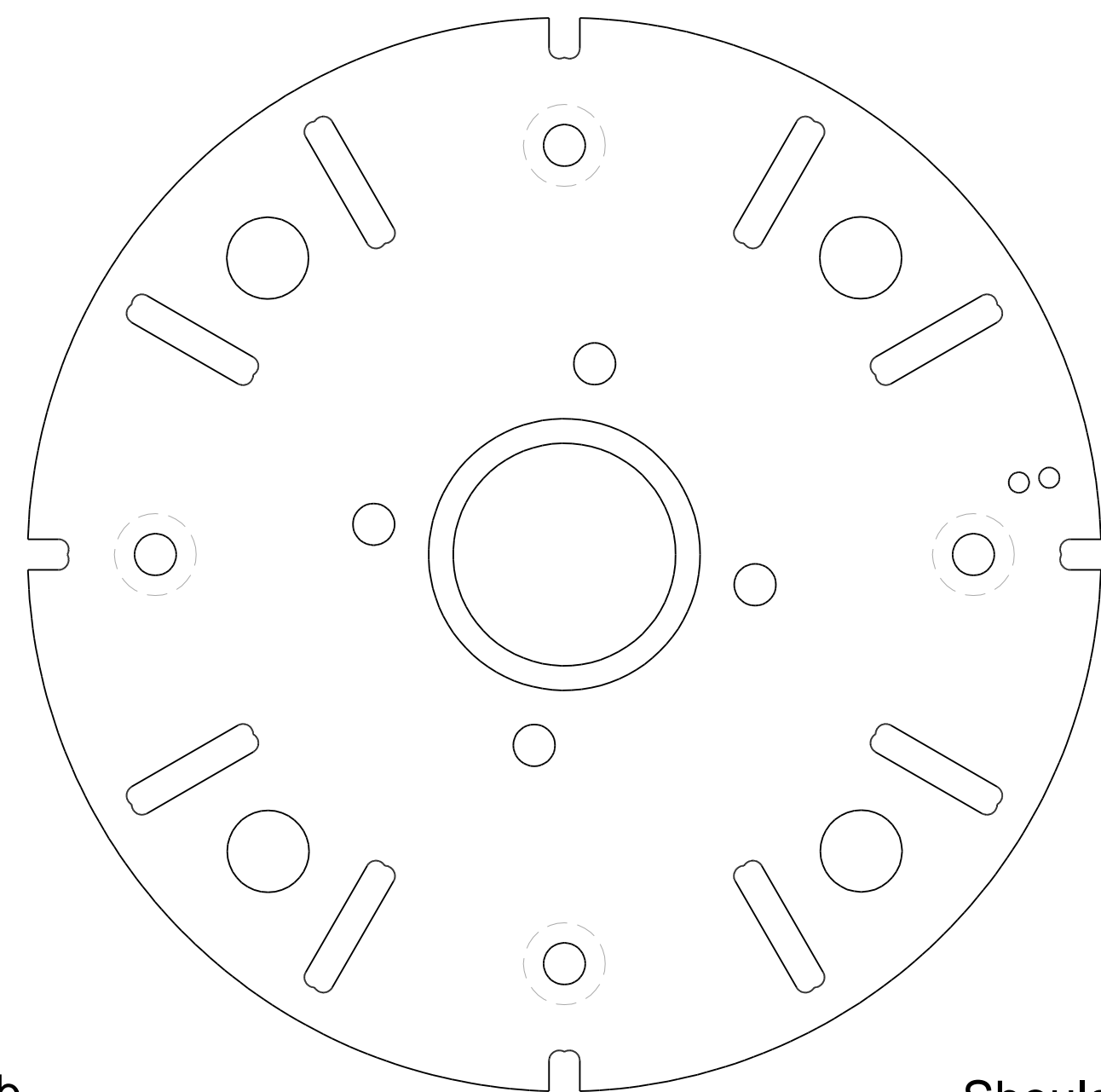
Shoulder Plate 1a  
make 1 - .1875



Shoulder Plate 2a  
make 1 - .1875



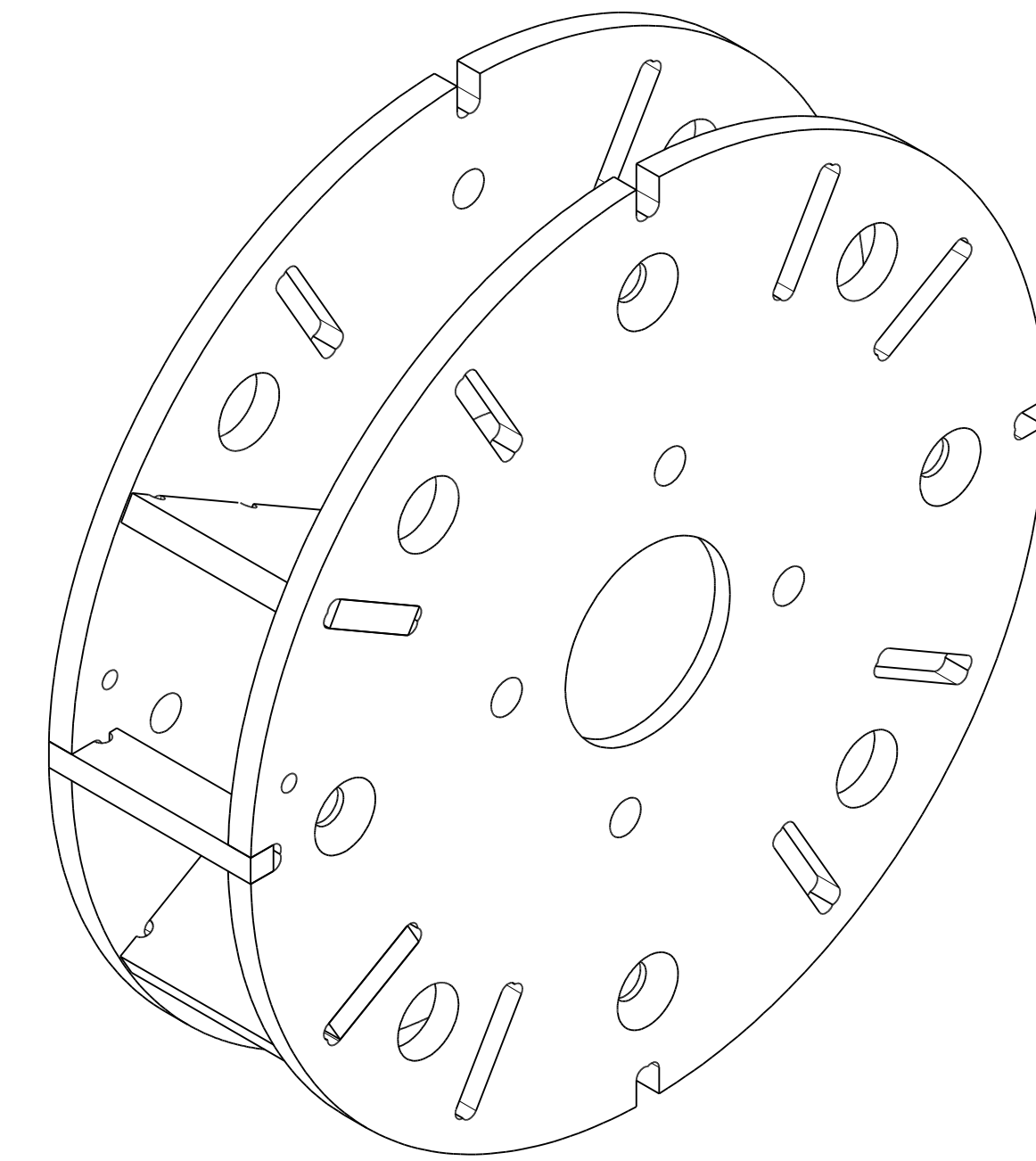
Shoulder Plate 1b  
make 1 - .1875



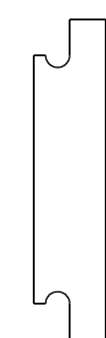
Shoulder Plate 2b  
make 1 - .1875

All Shoulder Plates:  
.0625 pocket around center hole  
1/4-20 countersink far side

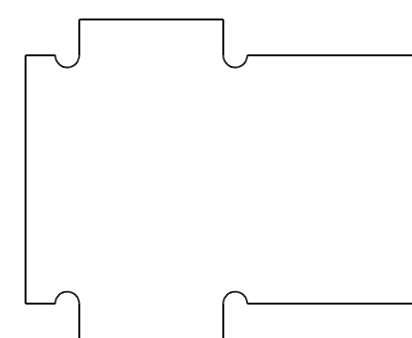
Not Shown - .040 single layer wrap to cover outside of Hub



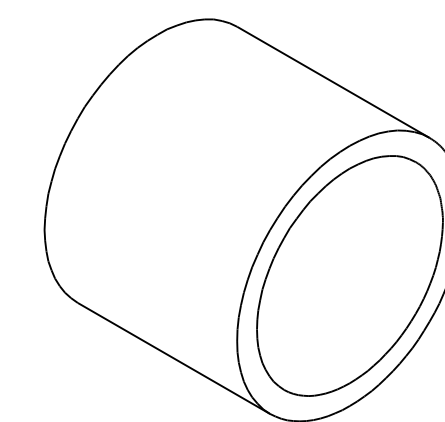
CS:R NextGen Shoulder Hub  
See assembly instructions  
May be used as either:  
CS:L 3-leg fixed hub using 1/4-20 bolts  
CS:R shoulder hub using 1/2 in bolts



Riser Filler  
Make 8 - .1875



Riser  
Make 16 - .1875



1 1/4 in Sch 40 PVC Pipe  
cut to 1.42 in long  
Make 2

### CS:R NextGen Shoulder Hub

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DRAWN	DATE				
CHECKED					
QA		SIZE	FSCM NO.	DWG NO.	REV
MFG		C			
APPROVED		SCALE			SHEET