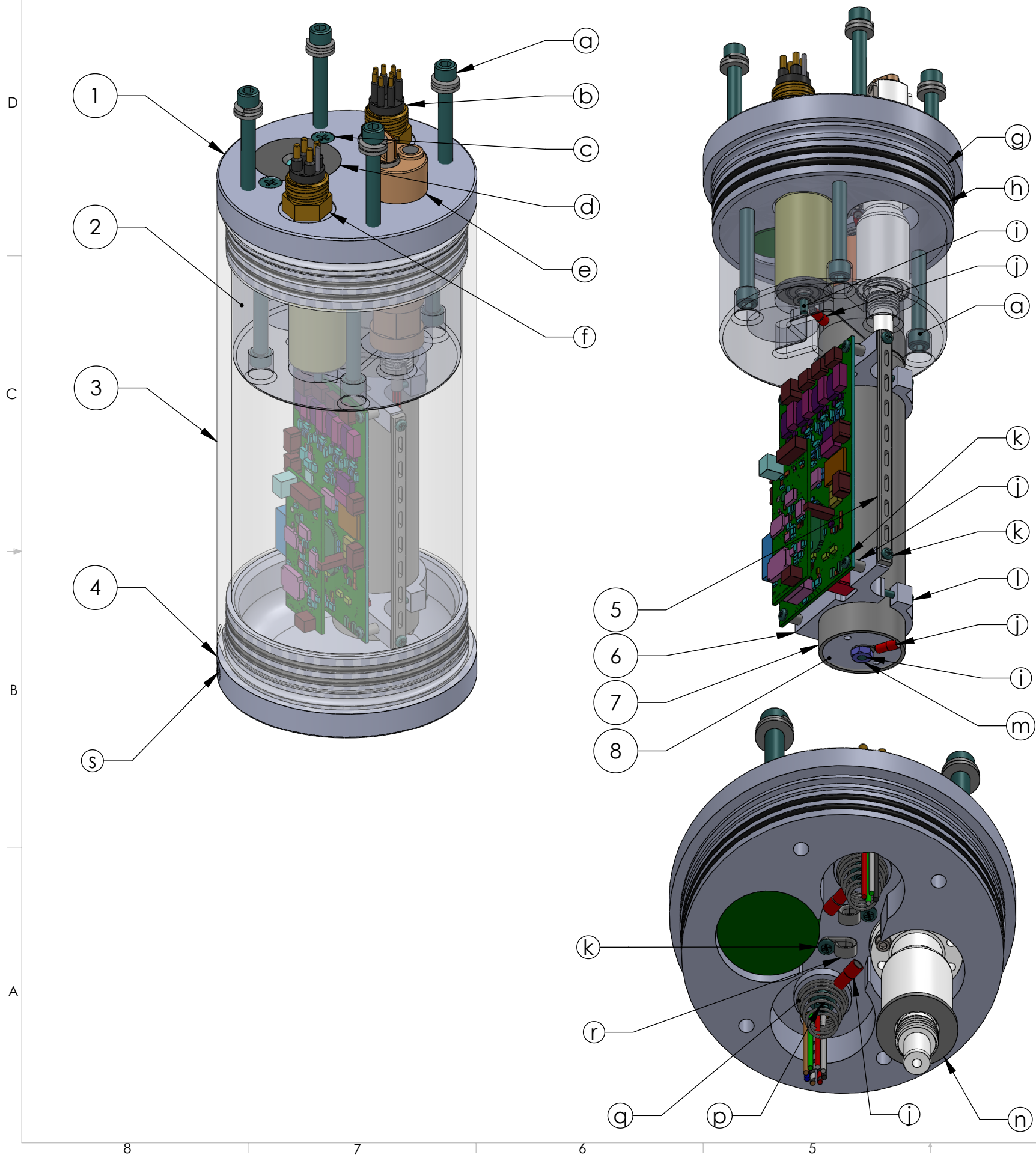


The information contained in this drawing is the sole property of jDesign. Any reproduction in part or whole without the written permission of jDesign is prohibited.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			



s	1		Vent screw	McMaster 90825A185
r	2		Nylon loop clamp	McMaster 8876T56
q	2		Battery Springs	McMaster 2415N14
p	2		Battery Spring screws	8-32 *0.5 Panhead
n	1		GDF Spacer	1/16" Washer: McMaster 92150A166
m	1		Main Battery nut	8-32 Nut
l	2		Logger bracket screws	4-40*1.0 Panhead
k	8		Logger screws	4-40*0.5 Panhead
j	4		Ring Terminal	e.g., McMaster 69665K74
i	1		Battery + screw	8-32*0.25 Panhead
h	4		O-rings	Viton -155: McMaster 9464K518
g	1		Lock Cord	1/8" PolyPro: McMaster 7889A44
f	1		Pump connector	MCBH4M
e	1		DuraFET pH Sensor	Either: DSD or GDF
d	1		Oxygen Optode	Aanderaa 5730
c	2		Optode screws	5-.8*12mm flathead, McMaster 93395A304
b	1		CTD/COM connector	MCBH8M
a	8		Mounting screws	1/4-20 x 2.25" Socket head, McMaster 92185A553
Item No.	Qty	Part No.	Description	Material Specification

Bill of Materials: Ordered Parts

8	1		Batery Retainer	1/4" PVC or Delrin plate
7	2		Logger Mount	3/8" PVC or Delrin plate
6	1		Battery Tube	Stainess Tube; McMaster 1750T211
5	1		Rail	Aluminum: McMaster 4490T173
4	1		Endcap, Bottom	1.5" PVC plate
3	1		Housing Pipe	4" PVC Sched 40 pipe
2	1		Housing Support	4" PVC Rod OR 2-1/8" PVC plate
1	1		Endcap, Top	1.5" PVC plate
Item No.	Qty	Part No.	Description	Material Specification

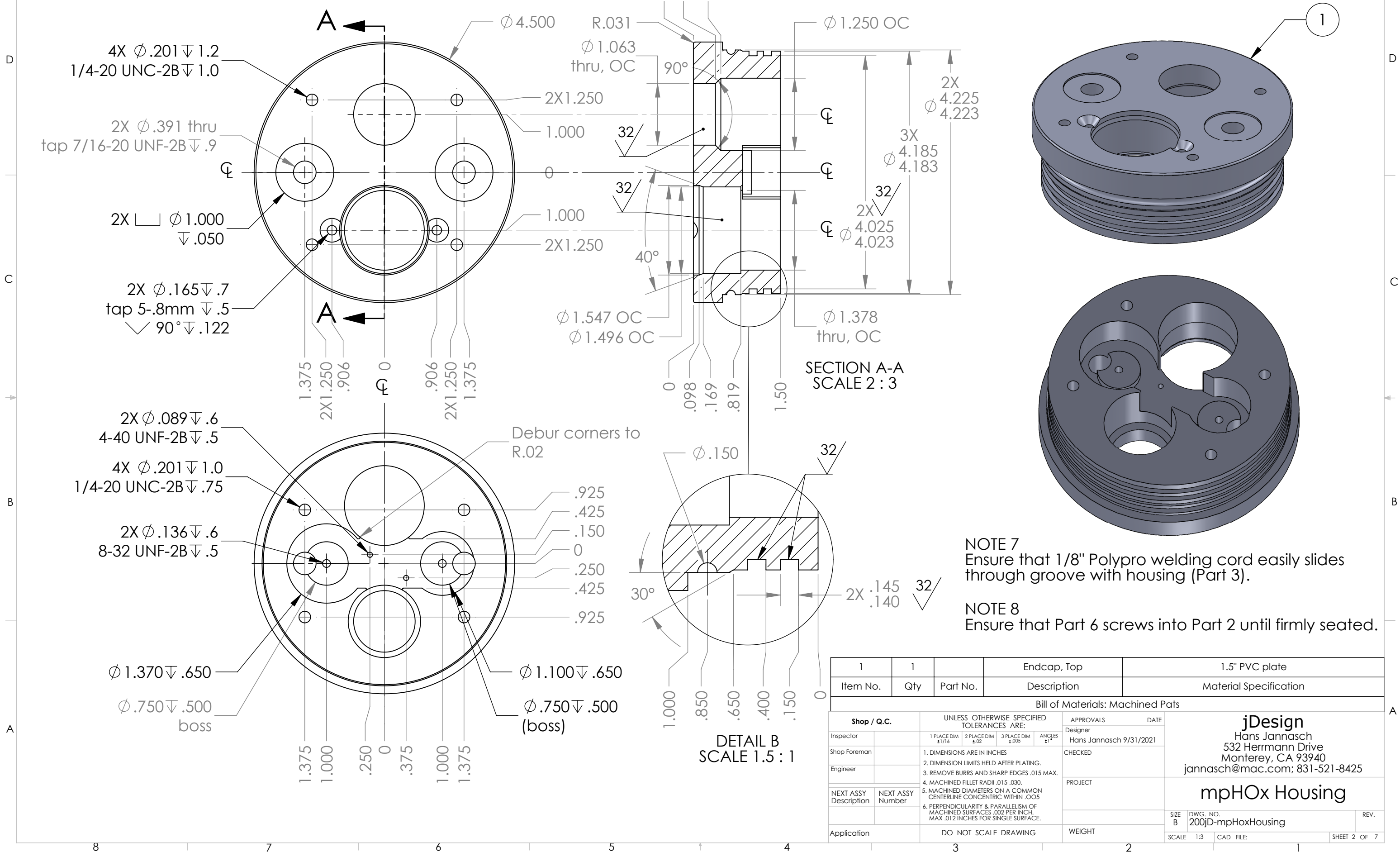
Bill of Materials: Machined Pats

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	Designer		Hans Jannasch 9/31/2021	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				CHECKED			
Engineer									
NEXT ASSY Description	NEXT ASSY Number					PROJECT			
Application		DO NOT SCALE DRAWING				WEIGHT			
								SIZE B	DWG. NO. 200jD-mpHoxHousing
								SCALE 1:3	REV.
								CAD FILE:	SHEET 1 OF 7

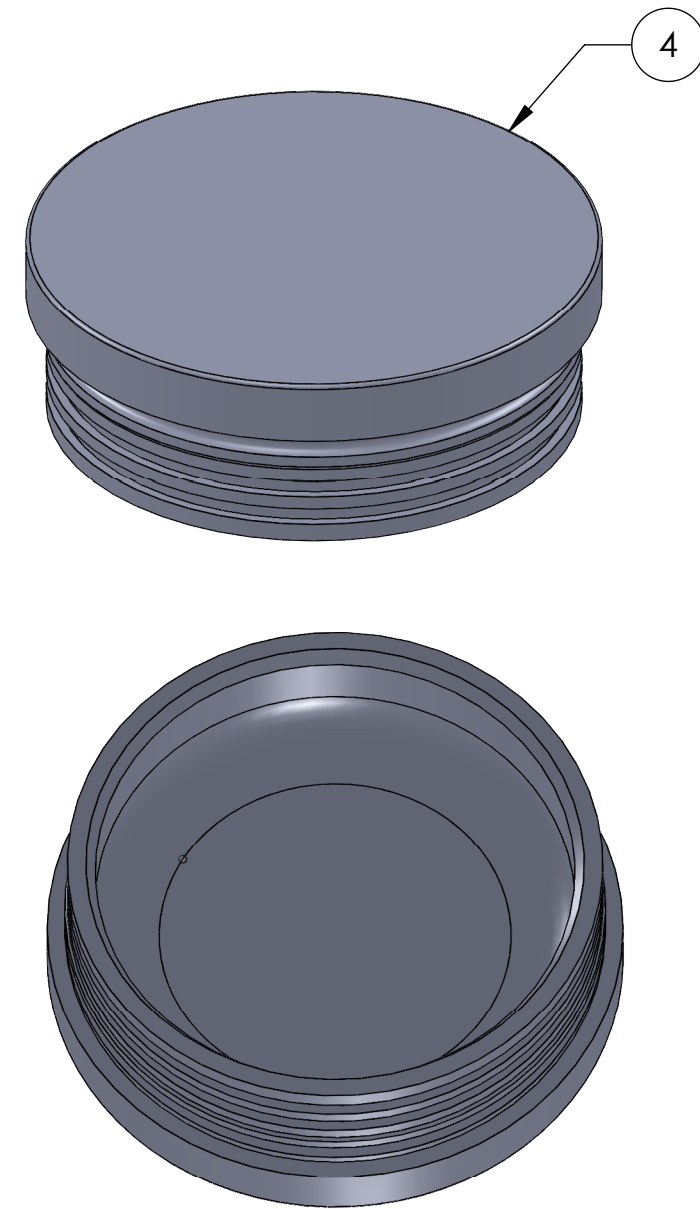
jDesign
Hans Jannasch
532 Herrmann Drive
Monterey, CA 93940
jannasch@mac.com; 831-521-8425

mpHOx Housing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

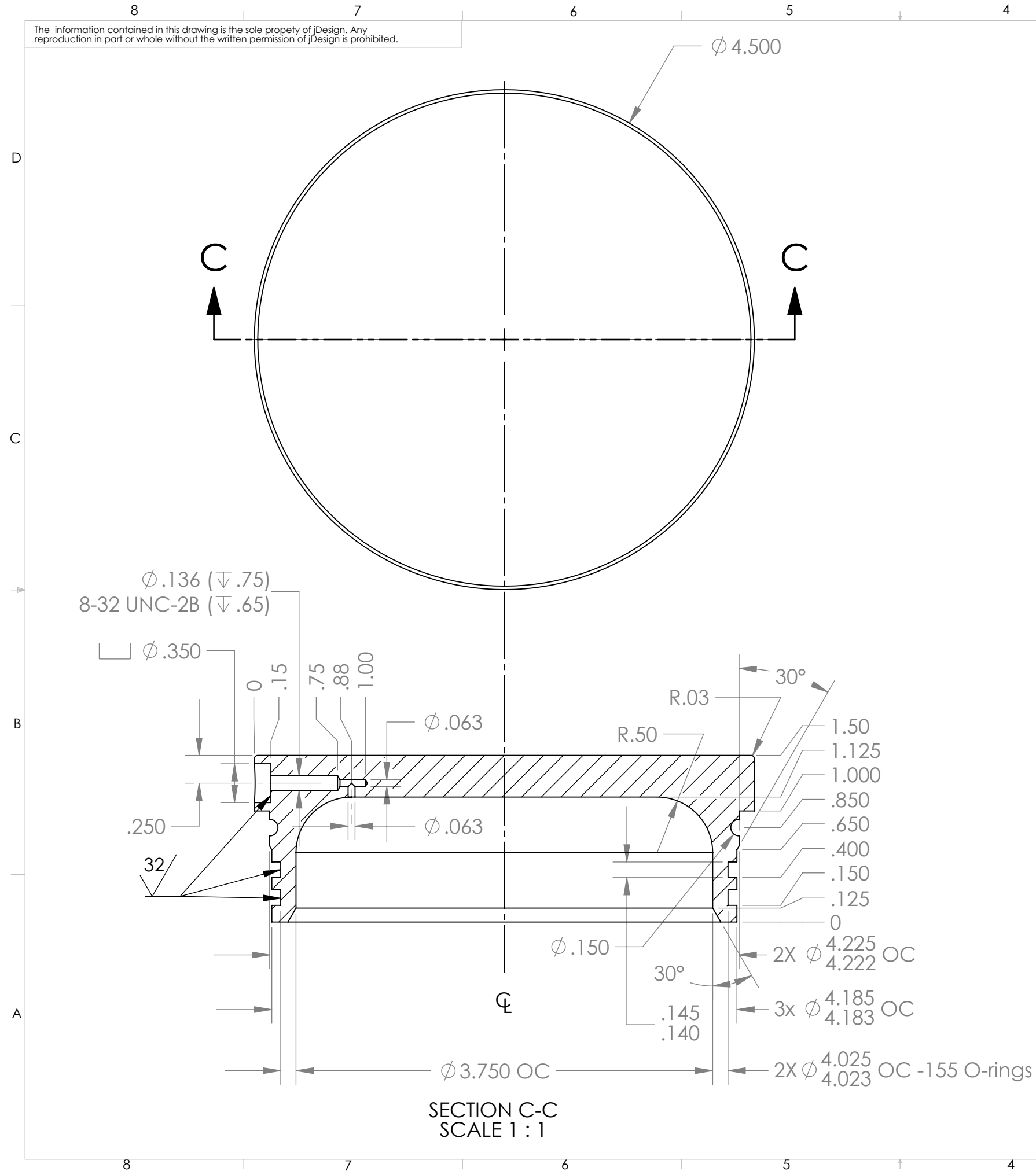


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



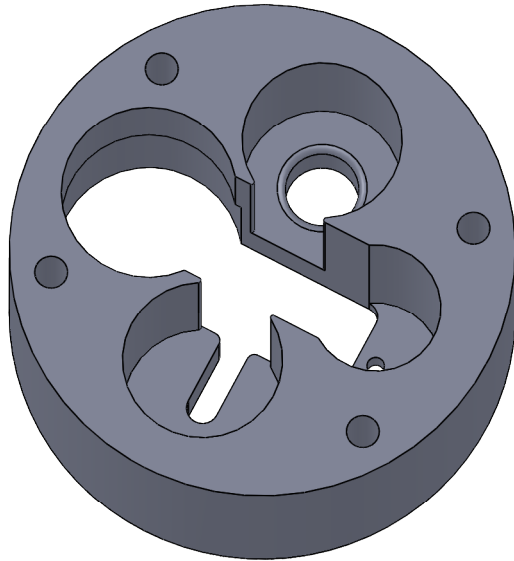
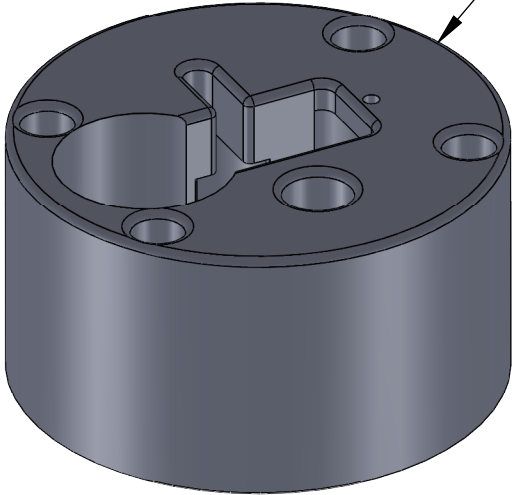
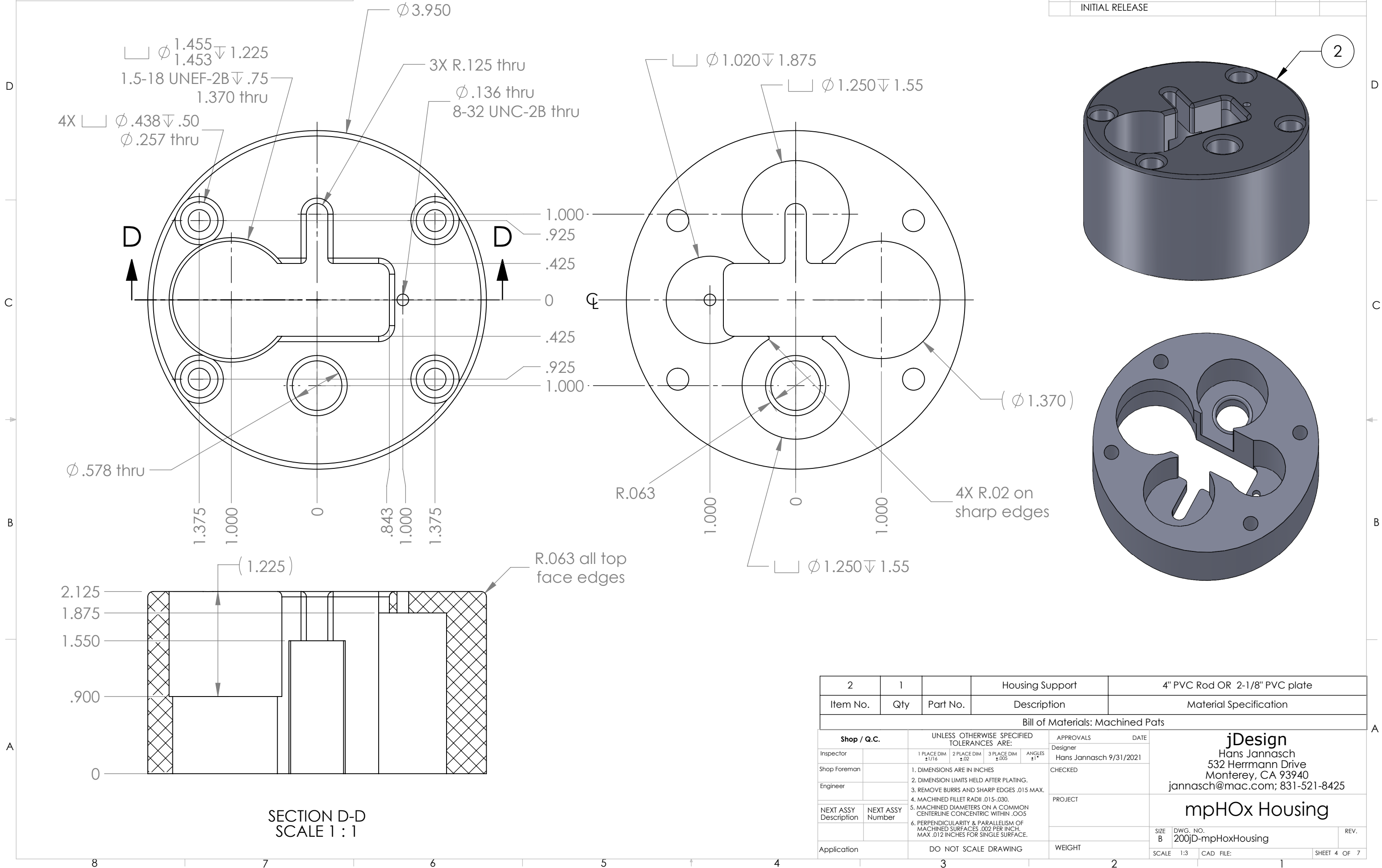
NOTE 7
Ensure that 1/8" Polypro welding cord easily slides through groove with housing (Part 3).

4	1		Endcap, Bottom	1.5" PVC plate
Item No.	Qty	Part No.	Description	Material Specification
Bill of Materials: Machined Parts				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	DATE
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	Designer Hans Jannasch 9/31/2021
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.		CHECKED
NEXT ASSY Description	NEXT ASSY Number			PROJECT
Application		DO NOT SCALE DRAWING		SIZE B DWG. NO. 200jD-mpHoxHousing
		WEIGHT		REV.
		SCALE 1:3		CAD FILE:
		SHEET 3 OF 7		



The information contained in this drawing is the sole property of jDesign. Any reproduction in part or whole without the written permission of jDesign is prohibited.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

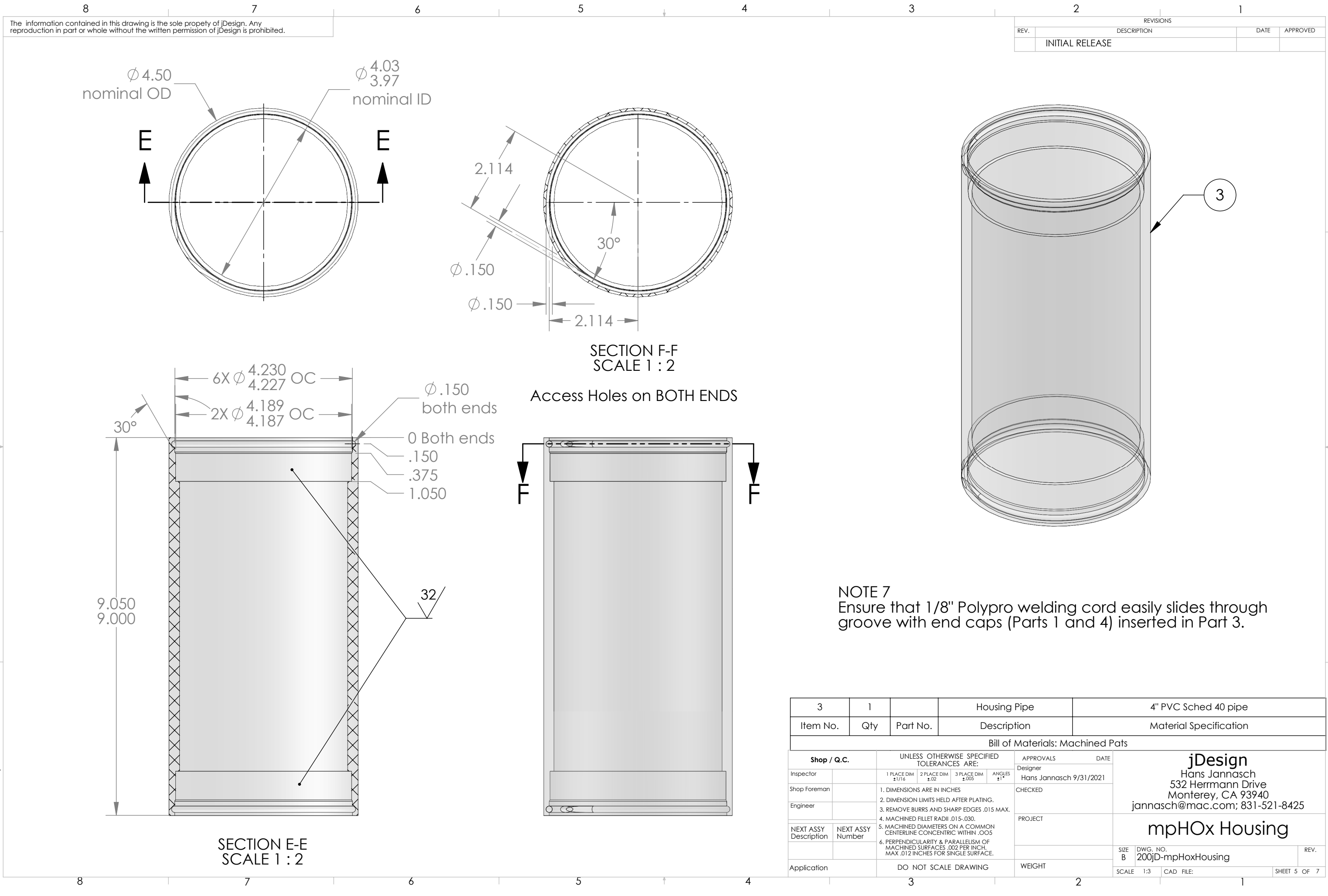


2		1		Housing Support		4" PVC Rod OR 2-1/8" PVC plate				
Item No.		Qty	Part No.	Description		Material Specification				
Bill of Materials: Machined Pats										
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	Designer Hans Jannasch 9/31/2021		jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425		
Shop Foreman		1. DIMENSIONS ARE IN INCHES				CHECKED				
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				PROJECT				
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.								
NEXT ASSY Description	NEXT ASSY Number	4. MACHINED FILLET RADII .015-.030.						mpHOx Housing		
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005								
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.								
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO. 200jD-mpHoxHousing	REV.
		SCALE 1:3		CAD FILE:				SHEET 4 OF 7		

jDesign
Hans Jannasch
532 Herrmann Drive
Monterey, CA 93940
jannasch@mac.com; 831-521-8425

mpHOx Housing

SIZE B DWG. NO. 200jD-mpHoxHousing REV.
SCALE 1:3 CAD FILE: SHEET 4 OF 7



The information contained in this drawing is the sole property of jDesign. Any reproduction in part or whole without the written permission of jDesign is prohibited.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

3		1		Housing Pipe		4" PVC Sched 40 pipe	
Item No.		Qty	Part No.	Description		Material Specification	
Bill of Materials: Machined Pats							
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS		DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	Designer Hans Jannasch 9/31/2021	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				CHECKED	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.					
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.					
		4. MACHINED FILLET RADII .015-.030.				PROJECT	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005					
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.					
						SIZE B	
						DWG. NO. 200jD-mpHoxHousing	
						REV.	
Application		DO NOT SCALE DRAWING			WEIGHT		
					SCALE 1:3		CAD FILE:
							SHEET 5 OF 7

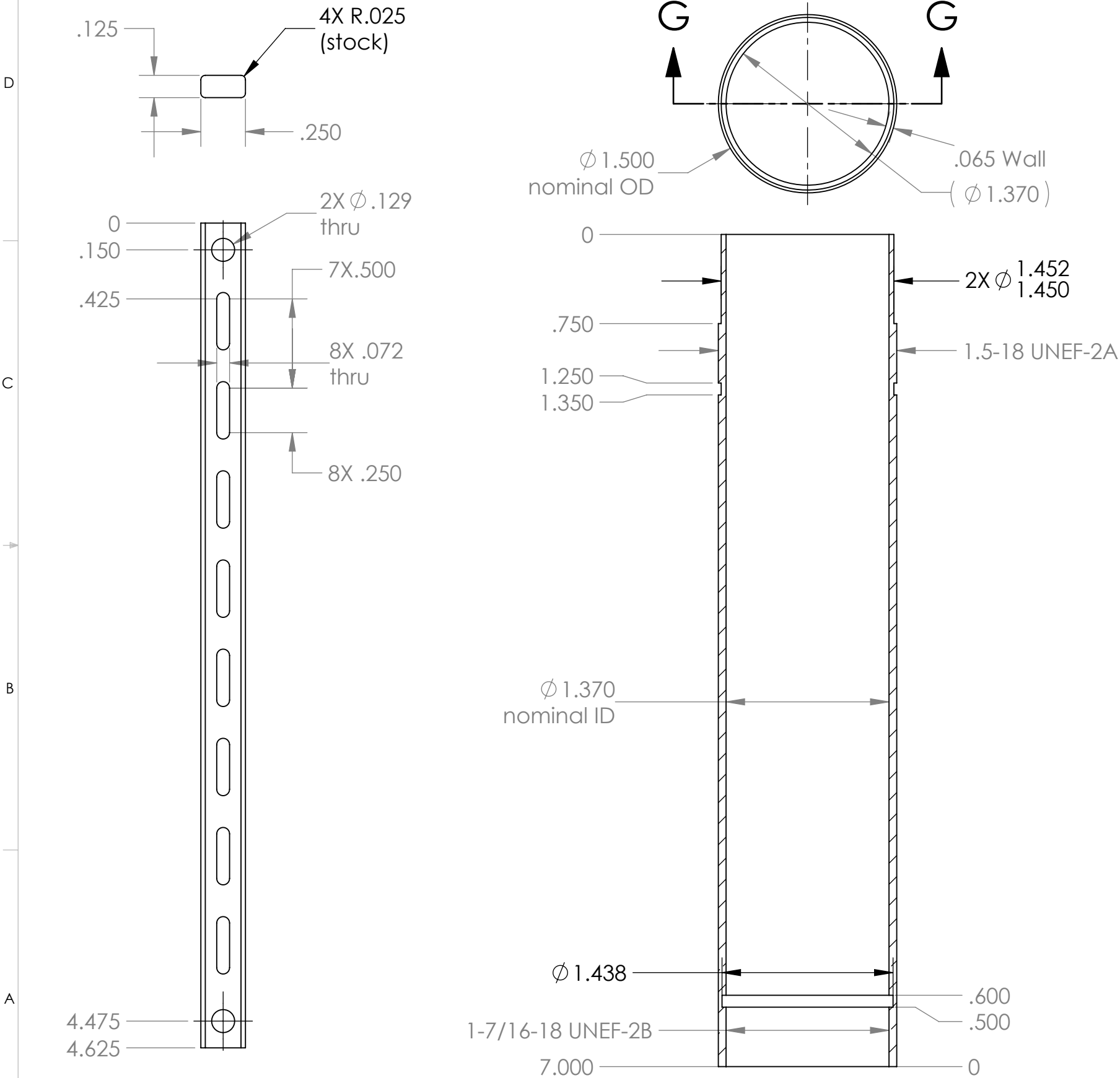
jDesign
Hans Jannasch
532 Herrmann Drive
Monterey, CA 93940
jannasch@mac.com; 831-521-8425

mpHOx Housing

SIZE B	DWG. NO. 200jD-mpHoxHousing	REV.
SCALE 1:3	CAD FILE:	SHEET 5 OF 7

The information contained in this drawing is the sole property of jDesign. Any reproduction in part or whole without the written permission of jDesign is prohibited.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



NOTE 7
Ensure that Part 6 screws into Part 2 until firmly seated.

NOTE 8
Ensure that Part 8 easily screws into Part 6.

6	1		Battery Tube	Stainless Tube; McMaster 1750T211		
5	1		Rail	Aluminum: McMaster 4490T173		
Item No.	Qty	Part No.	Description	Material Specification		
Bill of Materials: Machined Pats						
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425
Shop Foreman		1. DIMENSIONS ARE IN INCHES		Designer Hans Jannasch 9/31/2021		
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		CHECKED		
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT		
NEXT ASSY Description	NEXT ASSY Number	4. MACHINED FILLET RADII .015-.030.		PROJECT		
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT		
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		PROJECT		
Application		DO NOT SCALE DRAWING		WEIGHT		
				SIZE B		
				DWG. NO. 200jD-mpHoxHousing		
				REV.		
				SCALE 1:3		
				CAD FILE:		
				SHEET 6 OF 7		

