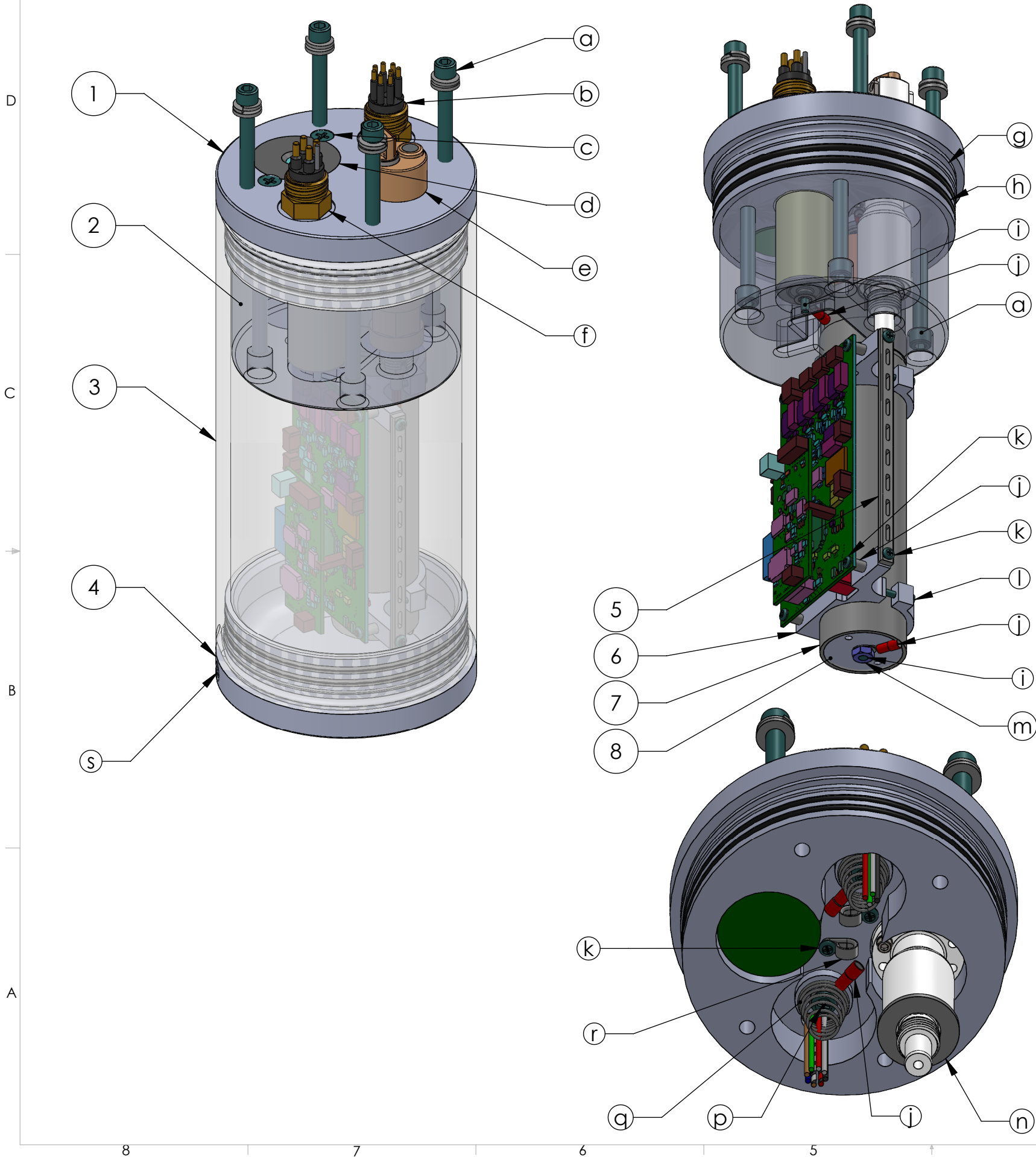


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REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			



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

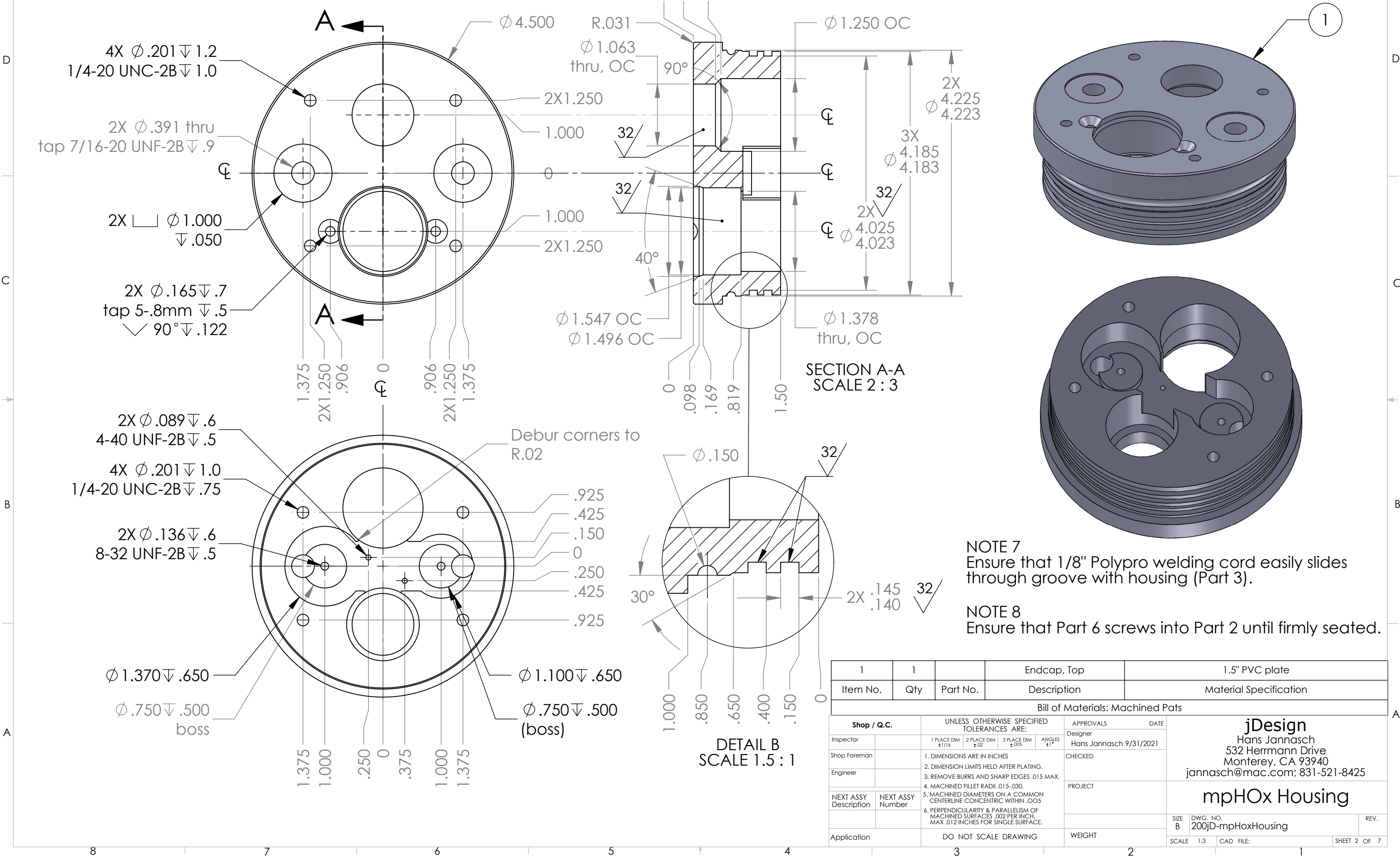
Bill of Materials: Machined Pats

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

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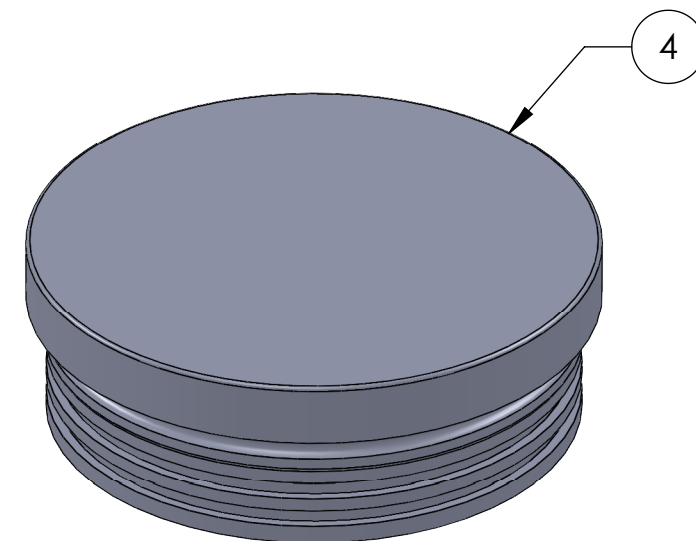
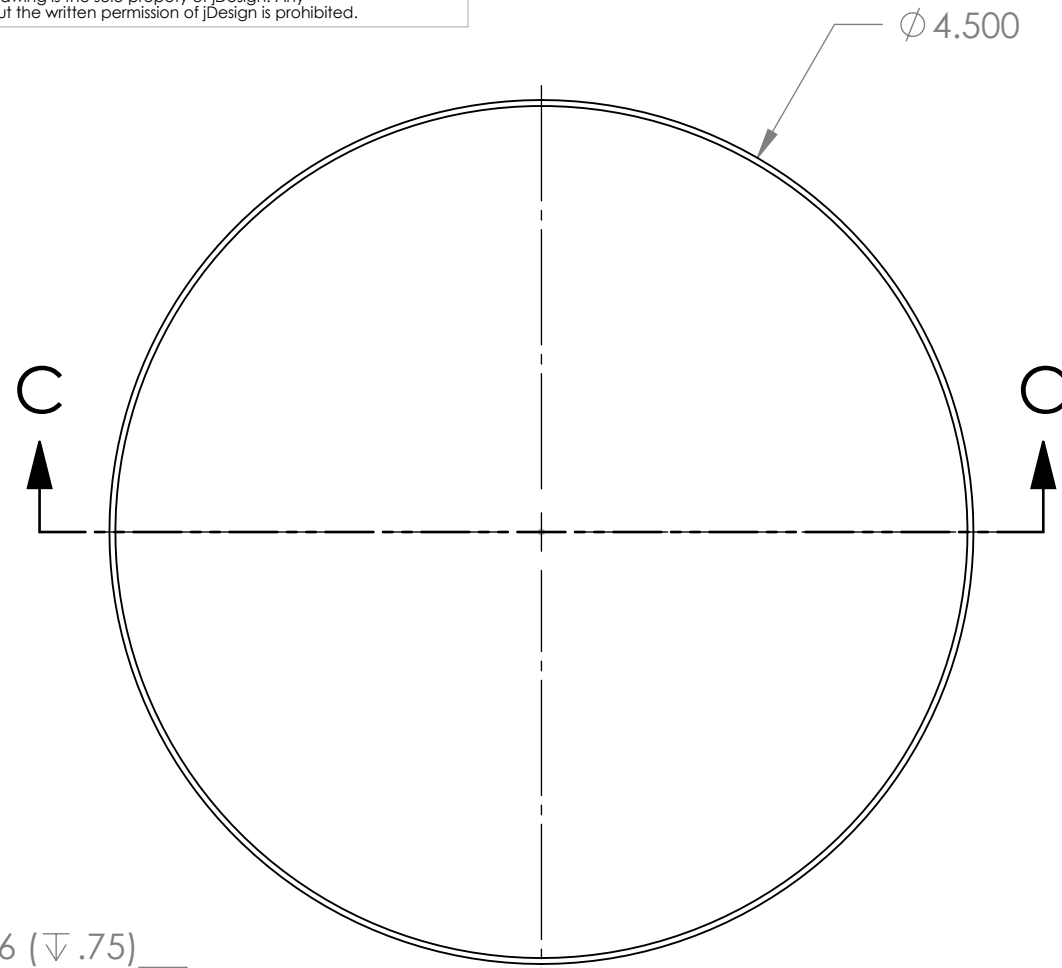
mpHOx Housing

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	INITIAL RELEASE		



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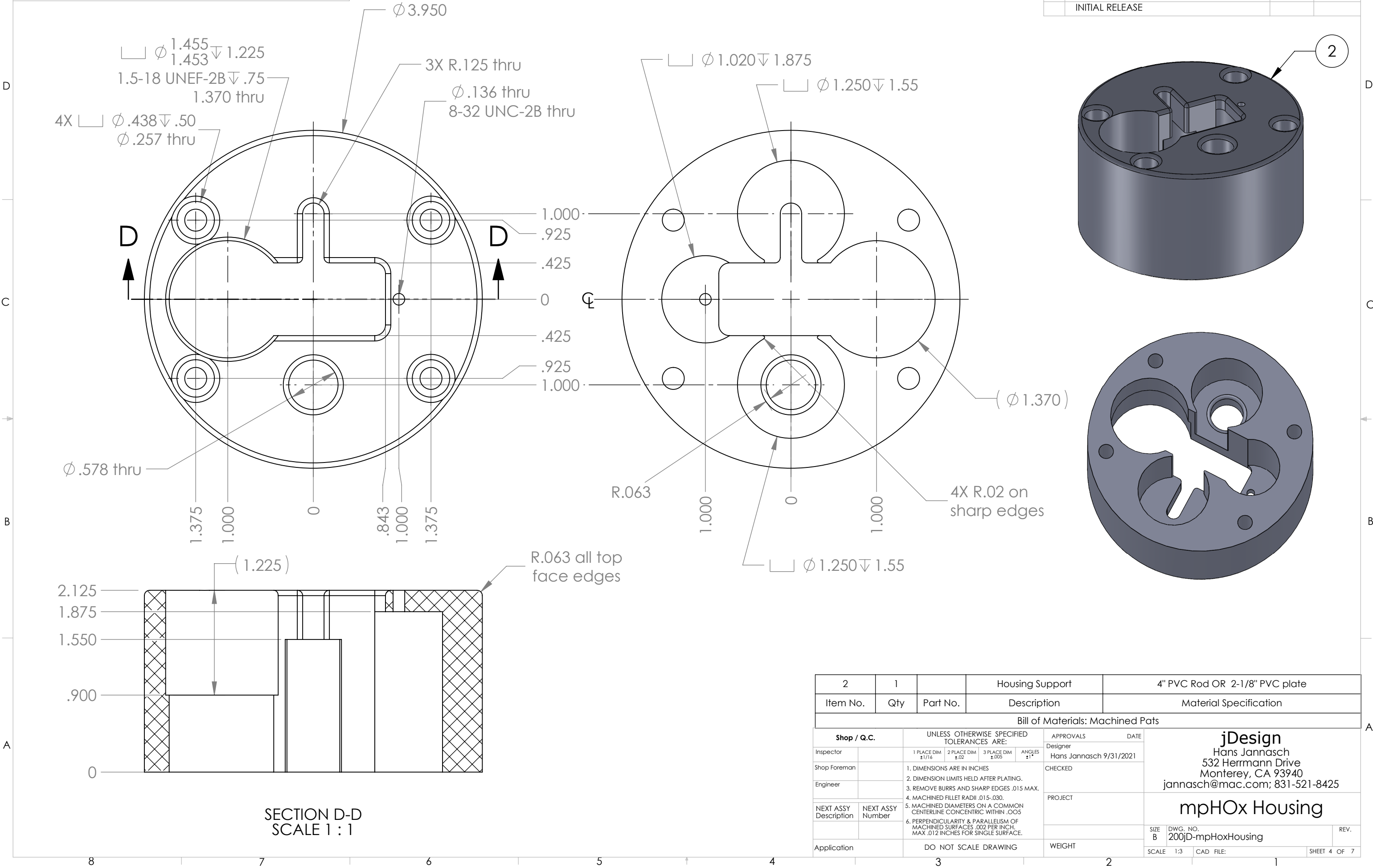


NOTE 7
Ensure that 1/8" Polypro welding cord easily slides through groove with housing (Part 3).

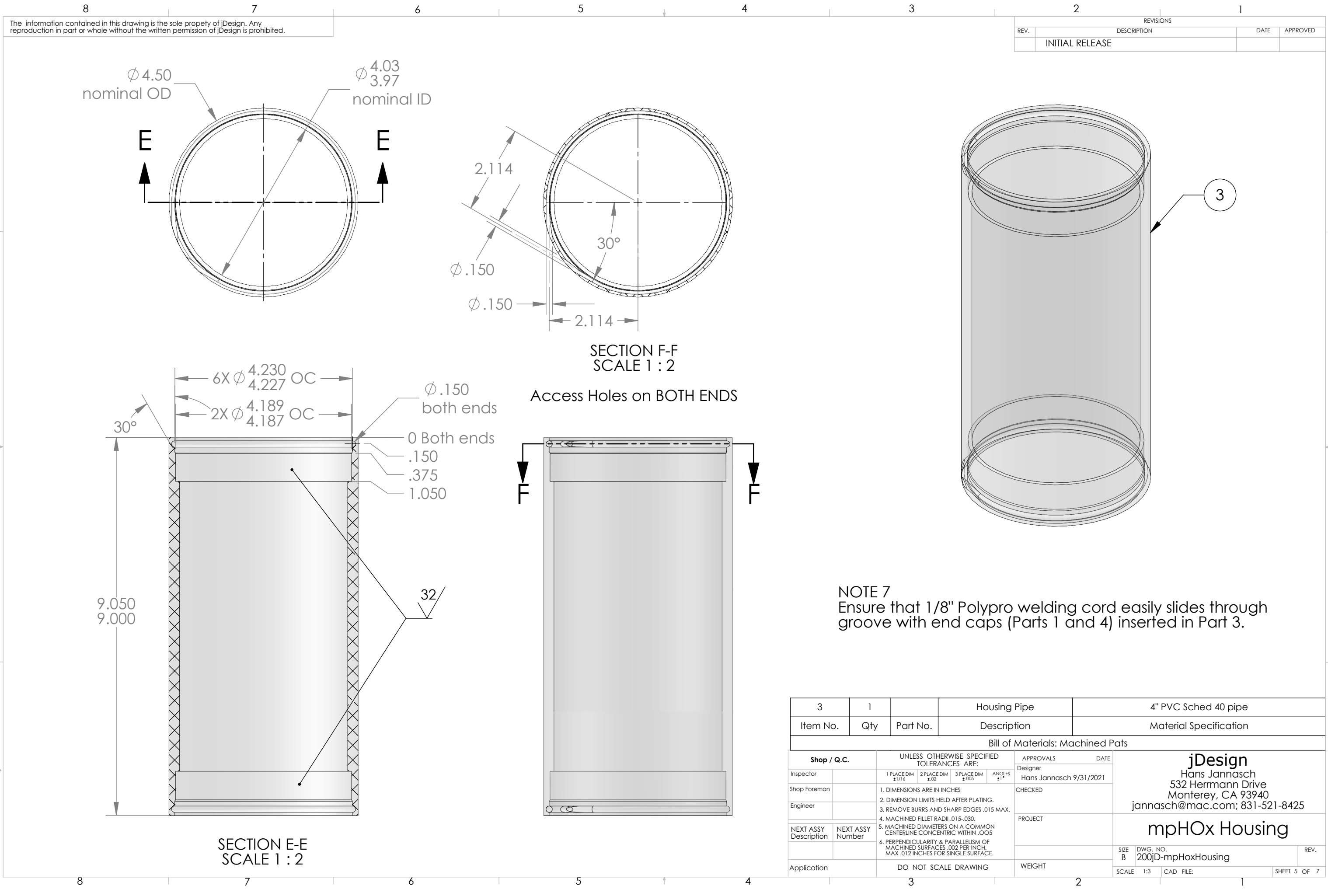
4	1		Endcap, Bottom	1.5" PVC plate
Item No.	Qty	Part No.	Description	Material Specification
Bill of Materials: Machined Pats				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE
Inspector		1 PLACE DIM ±.1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DESIGNER Hans Jannasch 9/31/2021
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		CHECKED
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		
		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.		
Application		DO NOT SCALE DRAWING		WEIGHT
		3		2
				1

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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			
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.							
NEXT ASSY Description	NEXT ASSY Number	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.							
Application		DO NOT SCALE DRAWING			WEIGHT				
		3			2	SIZE B	DWG. NO. 200jD-mpHoxHousing		REV.
						SCALE 1:3	CAD FILE:		SHEET 4 OF 7



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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		jDesign Hans Jannasch 532 Herrmann Drive Monterey, CA 93940 jannasch@mac.com; 831-521-8425 mphOx Housing			
Shop Foreman		1. DIMENSIONS ARE IN INCHES				CHECKED					
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				PROJECT					
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.									
		4. MACHINED FILLET RADII .015-.030.									
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				SIZE B		DWG. NO. 200jD-mpHoxHousing		REV.	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.									
Application		DO NOT SCALE DRAWING				WEIGHT		SCALE	1:3	CAD FILE:	SHEET 5 OF 7
		3				2				1	

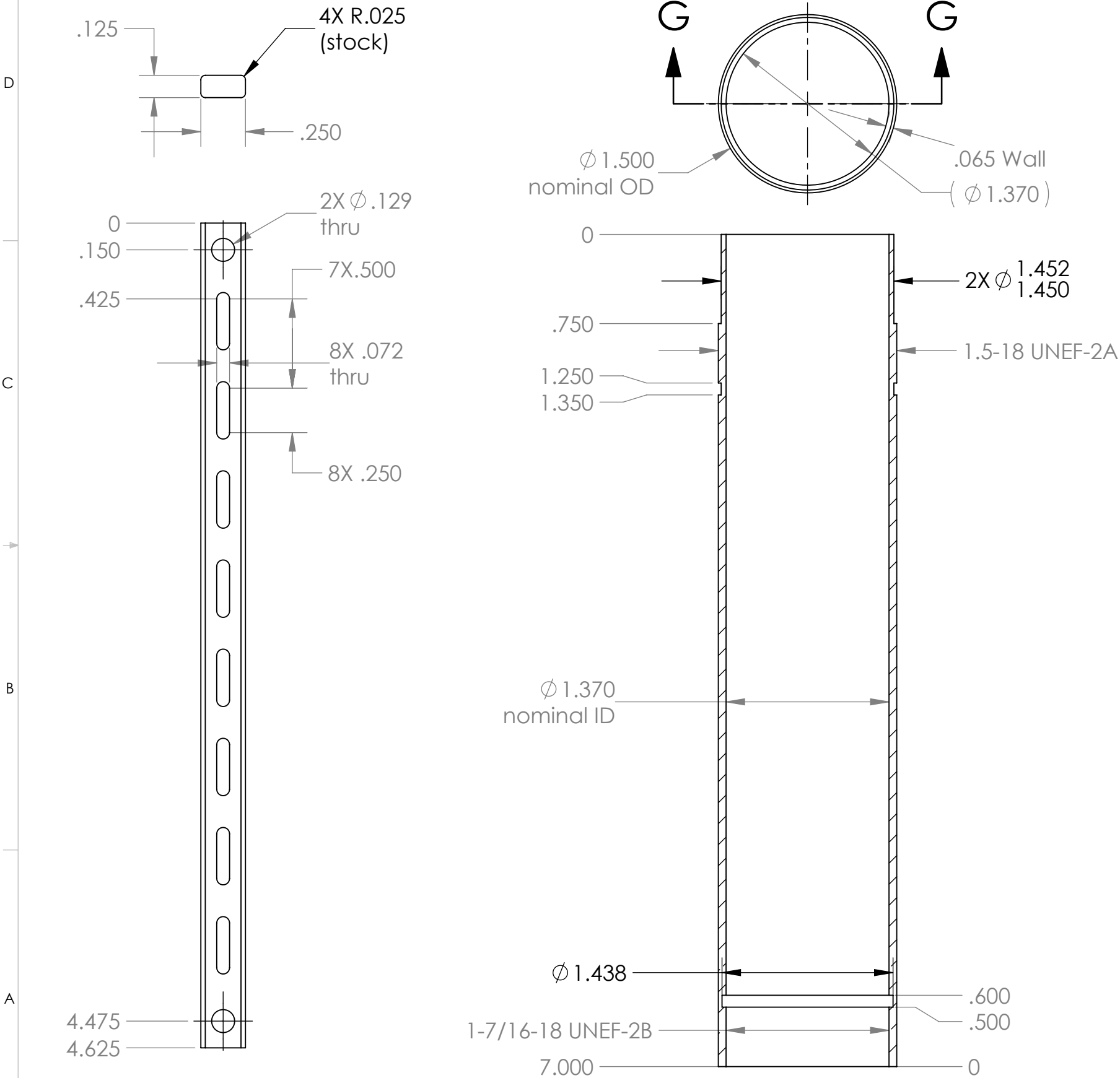
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mpHOx Housing

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

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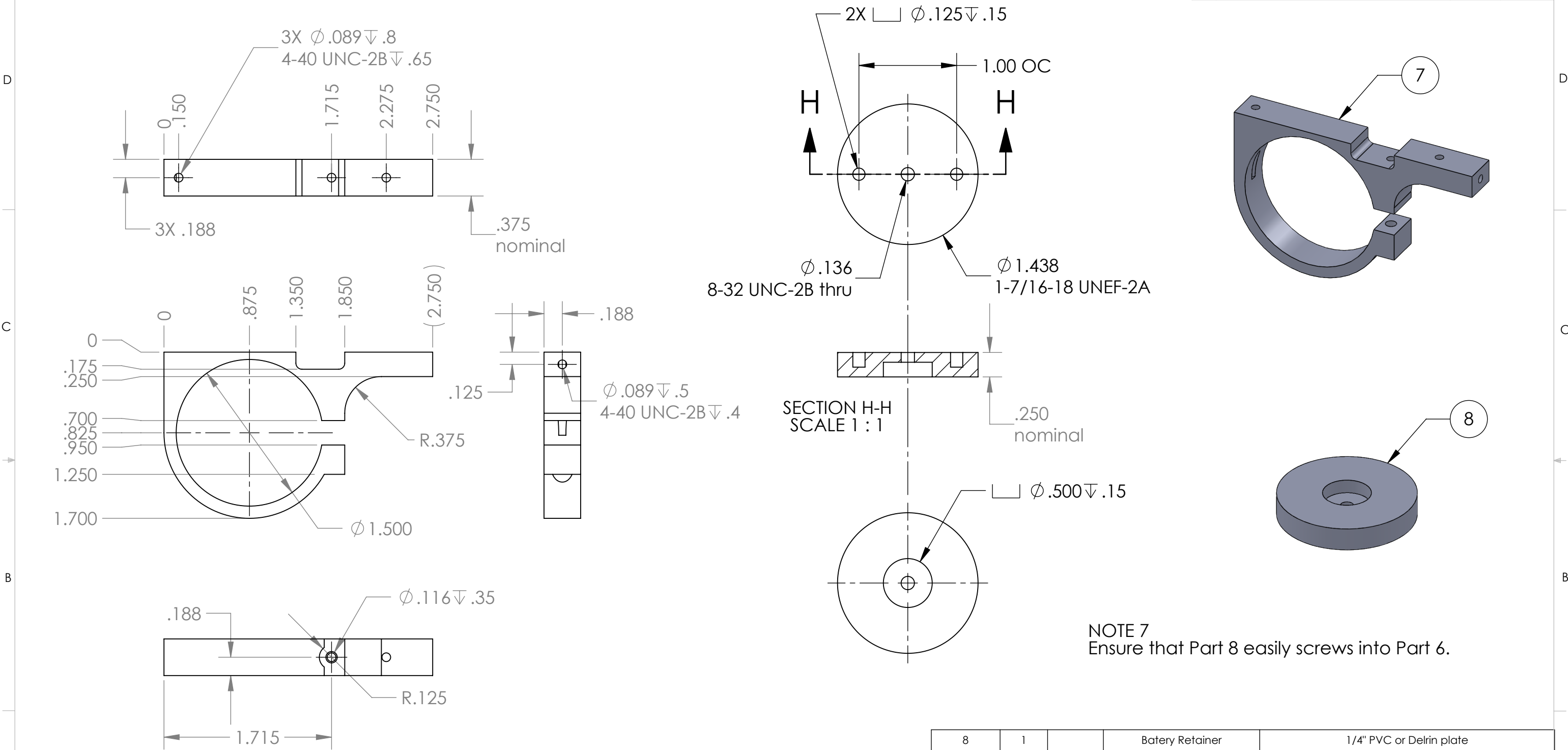
NOTE 7
Ensure that Part 6 screws into Part 2 until firmly seated.

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 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030.			CHECKED				
Engineer		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.			PROJECT				
NEXT ASSY Description	NEXT ASSY Number				SIZE B		DWG. NO. 200jD-mpHoxHousing	REV.	
Application		DO NOT SCALE DRAWING		WEIGHT		SCALE 1:3		CAD FILE:	SHEET 6 OF 7

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8	1		Batery Retainer	1/4" PVC or Delrin plate
7	2		Logger Mount	3/8" PVC or Delrin 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
Shop Foreman		1. DIMENSIONS ARE IN INCHES		ANGLES ±1°
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		Designer Hans Jannasch 9/31/2021
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED
		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.		
Application		DO NOT SCALE DRAWING		WEIGHT
		SIZE B		DWG. NO. 200jD-mpHoxHousing
		SCALE 1:3		CAD FILE:
				REV.
		SHEET 7 OF 7		