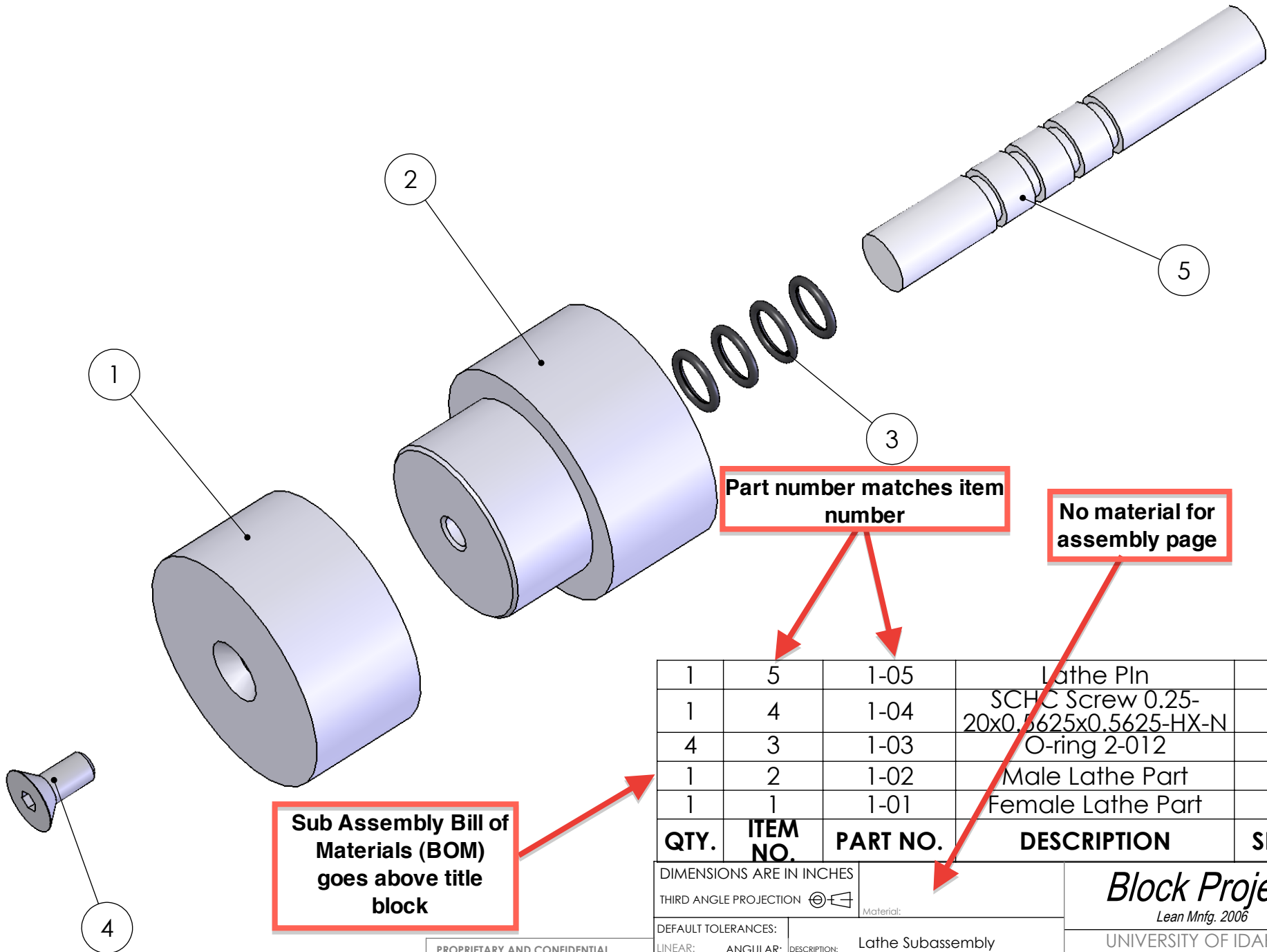


**Sub Assembly table**

1	2	2-00	Block Subassembly	6
1	1	1-00	Lathe Subassembly	2
QTY.	ITEM NO.	PART NO.	DESCRIPTION	SHEET

DIMENSIONS ARE IN INCHES		THIRD ANGLE PROJECTION		Material:		<b>Block Project</b> <i>Lean Mnfg. 2006</i>	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002 ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0.30'		DESCRIPTION: Main Assembly		UNIVERSITY OF IDAHO ME DEPARTMENT			
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		DRAWN BY: Phil Arpke FILE NAME: Assembly		DATE: 1/18/10 CAD Application: SolidWorks			



**Part number matches item number**

**No material for assembly page**

**Sub Assembly Bill of Materials (BOM) goes above title block**

QTY.	ITEM NO.	PART NO.	DESCRIPTION	SHEET
1	5	1-05	Lathe Pin	5
1	4	1-04	SCHC Screw 0.25-20x0.5625x0.5625-HX-N	-
4	3	1-03	O-ring 2-012	-
1	2	1-02	Male Lathe Part	4
1	1	1-01	Female Lathe Part	3

DIMENSIONS ARE IN INCHES  
THIRD ANGLE PROJECTION

Material: \_\_\_\_\_

DESCRIPTION: Lathe Subassembly

CHECKED BY: B. Ballard DATE: 4/19/10

DRAWN BY: Phil Arpke DATE: 1/18/10

FILE NAME: Lathe Assembly

**Block Project**  
*Lean Mfg. 2006*

UNIVERSITY OF IDAHO  
ME DEPARTMENT

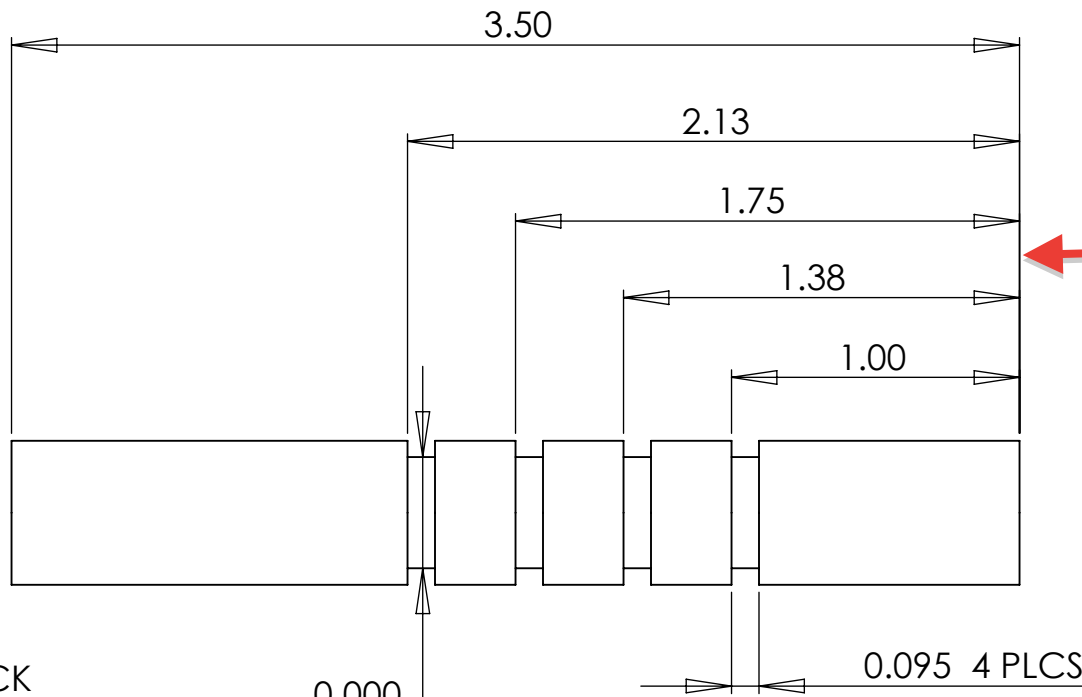
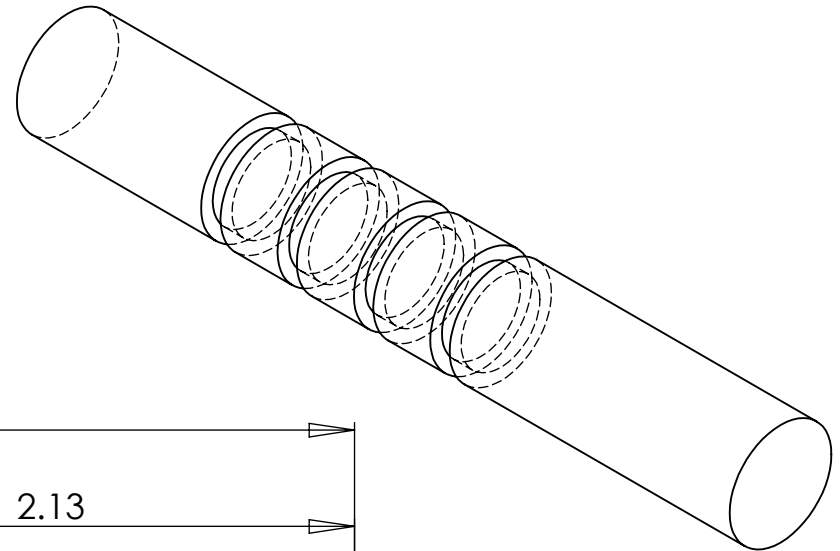
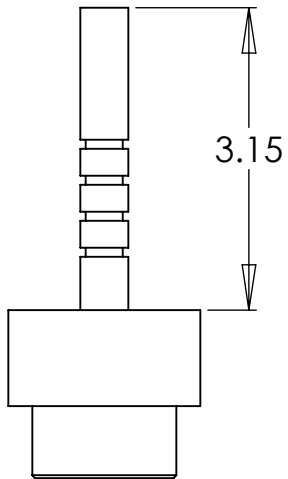
Part #: 1-00 QTY: 1

Scale: 1:1 SHEET 2 OF 9

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DEFAULT TOLERANCES:  
LINEAR: X. ± .25  
X.X ± .1  
X.XX ± .01  
X.XXX ± .002  
ANGULAR: X. ± 2  
X.X ± 1  
X.XX ± 0.30'

CAD Application  
SolidWorks



**Baseline Dimensioning**

Ø 0.5 ROUND STOCK

0.000  
Ø 0.390 -0.001  
4 PLCS

**Third Angle Projection is a requirement!**

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DIMENSIONS ARE IN INCHES		6061 T6 Aluminum Material:		<b>Block Project</b> <i>Lean Mfg. 2006</i>	
THIRD ANGLE PROJECTION		DESCRIPTION: Grooved Lathe Pin		UNIVERSITY OF IDAHO ME DEPARTMENT	
DEFAULT TOLERANCES:		CHECKED BY: B. Ballard	DATE: 4/19/2010	Part #: 1-05	
LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002	ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0.30'	DRAWN BY: Phil Arpke	DATE: 1/18/10	Scale: 1:1	QTY: 1
		FILE NAME: Lathe Pin	CAD Application: SolidWorks	SHEET 5 OF 9	

**Full Bill of materials goes at the end of the package on it's own page**



1	2-05	HX-SGCS 0.25-20x0.75x0.75-N	McMaster-Carr	Steel, Zinc-Plated	0.25-20 x 0.75 x 0.75	-	\$0.22
1	2-04	SCHC Screw 0.25-20x1x1-HX-N	McMaster-Carr	Steel, Zinc-Plated	0.25-20 x 1x 1	-	\$0.32
1	2-03	Dowel Pin	McMaster-Carr	Steel	0.125 x 0.5	-	\$0.08
1	2-02	Top Block Part	Alcobra Inc.	6061-T6 Aluminum	2.0 x 1.75 x 1.4	8	\$3.73
1	2-01	Bottom Block Part	Alcobra Inc.	6061-T6 Aluminum	2.0 x 2.0 x 2.0	7	\$4.26
1	1-05	Lathe Pin	Alcobra Inc.	6061-T6 Aluminum	∅ 0.5 x 3.50	5	\$0.35
1	1-04	SCHC Screw 0.25-20x0.5625x0.5625-HX-N	McMaster-Carr	Steel, Zinc-Plated	0.25-20 x 0.5625 x 0.5625	-	\$0.26
4	1-03	O-ring 2-012	McMaster-Carr	Buna-N	ID- 0.375	-	\$0.10
1	1-02	Male Lathe Part	Alcobra Inc.	6061-T6 Aluminum	∅ 2.0 x 1.75	4	\$3.19
1	1-01	Female Lathe Part	Alcobra Inc.	6061-T6 Aluminum	∅ 2.0 x 1.0	3	\$1.82
QTY.	PART NO.	DESCRIPTION	SOURCE	MATERIAL	SIZE	SHEET	COST

DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

DEFAULT TOLERANCES:

LINEAR:  
X. ± .25  
X.X ± .1  
X.XX ± .01  
X.XXX ± .002

ANGULAR:  
X. ± 2  
X.X ± 1  
X.XX ± 0.30'

DESCRIPTION: **Bill of Materials**

CHECKED BY: **Brittany Ballard**

DATE:

**1/18/2010**

DRAWN BY: **Brittany Ballard**

DATE:

CAO Application  
SolidWorks

**Block Project**

*Lean Mntg. 2006*

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SHEET 9 OF 9