FRESADORAS CONTROL NUMERICO COMPUTERIZADO

FRS-CNC

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Artsoft Mach 3 Professional
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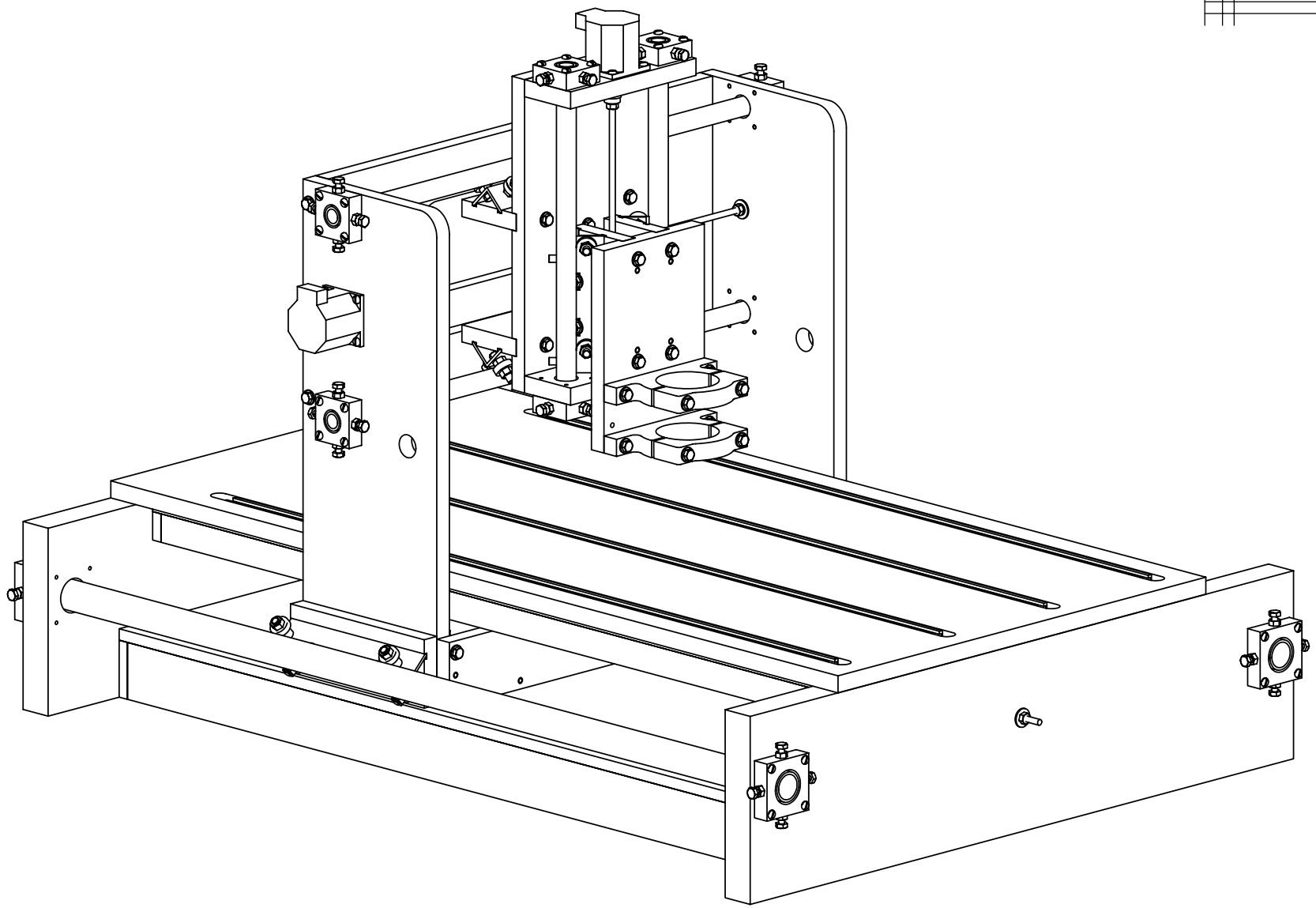
and_nitro@todopic.zzn.com

and_nitro S.A.

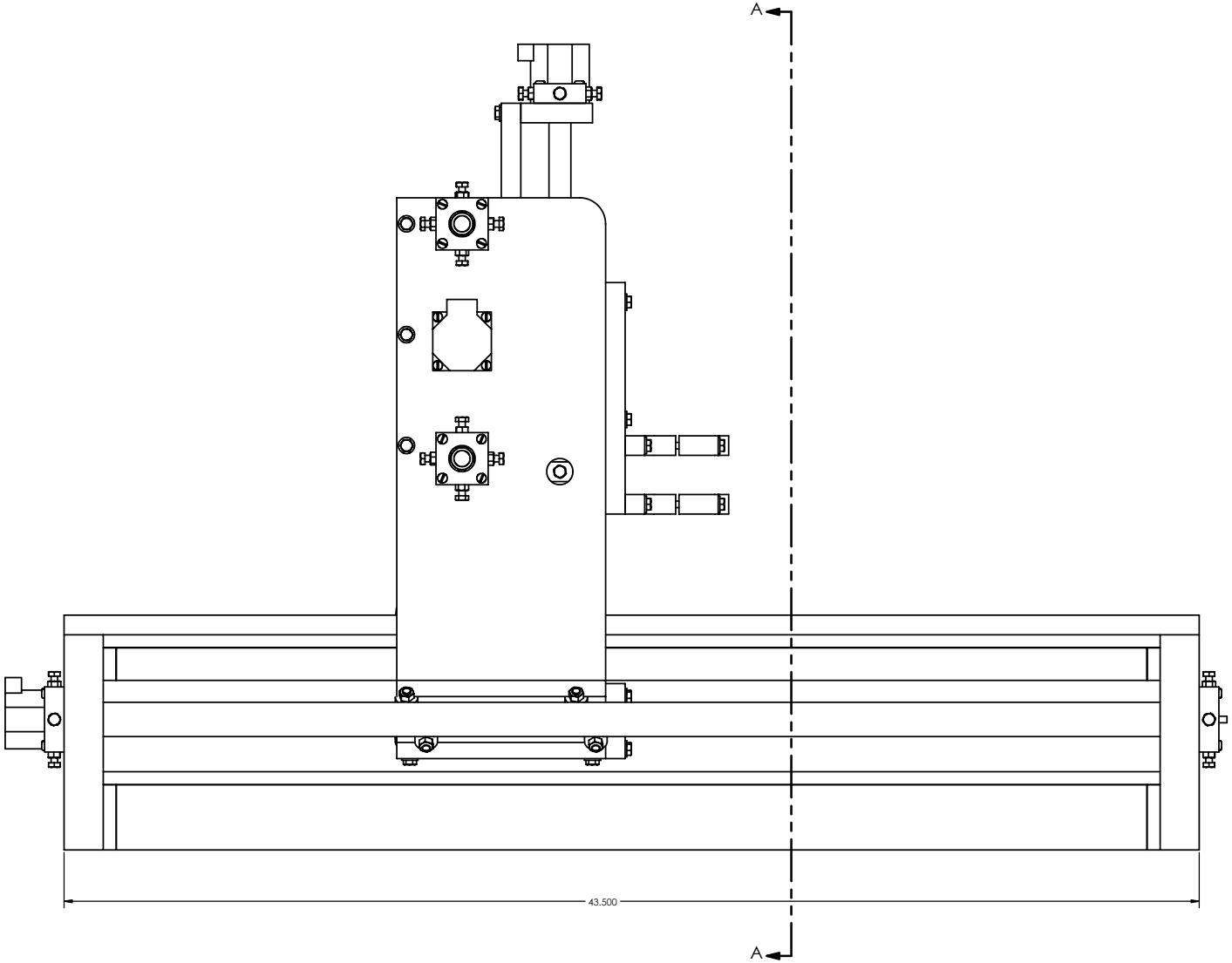
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



TITLE:	CNC ROUTER - MAIN ASSEMBLY
SIZE: D	MODEL NAME: cnc_assy01
REV	
SCALE: 1:2	NO. REQ'D:
SHEET 1 OF 6	

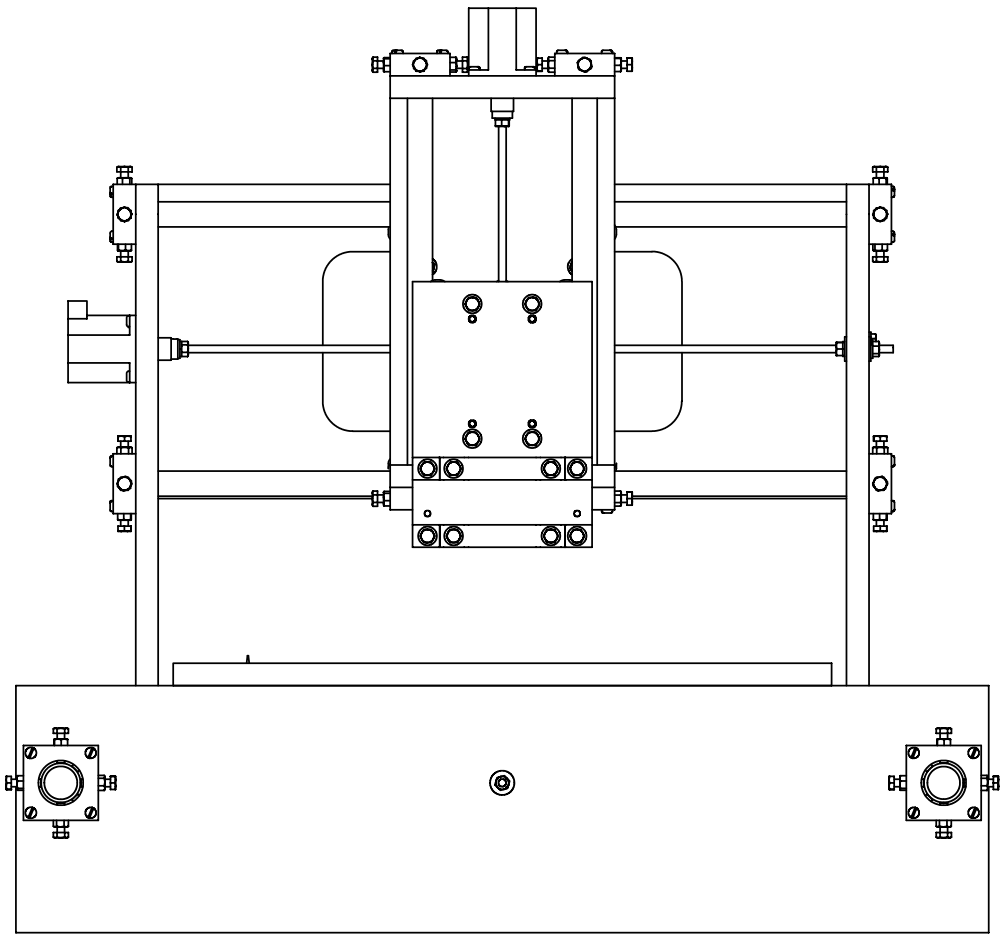
D | cnc_assy01 | B

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



TITLE: CNC ROUTER - MAIN ASSEMBLY			
SIZE: D	MODEL NAME: cnc_assy01		REV
SCALE: 1:2	NO. REQ'D:	SHEET 2 OF 6	

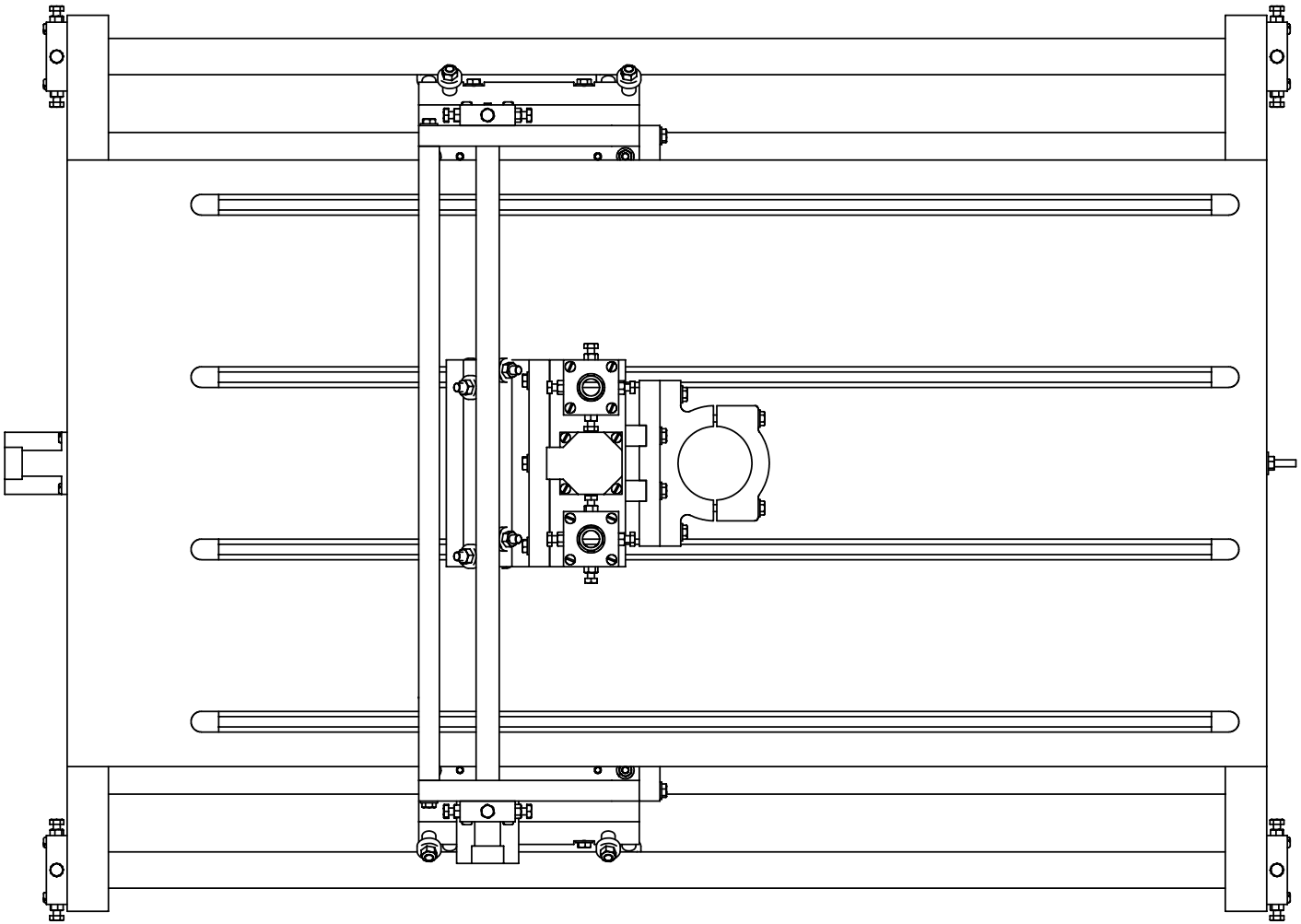
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



TITLE: CNC ROUTER - MAIN ASSEMBLY			
SIZE: D	MODEL NAME: cnc_assy01		REV
SCALE: 1:2	NO. REQ'D:	SHEET 3 OF 6	

D | cnc_assy01 | REV

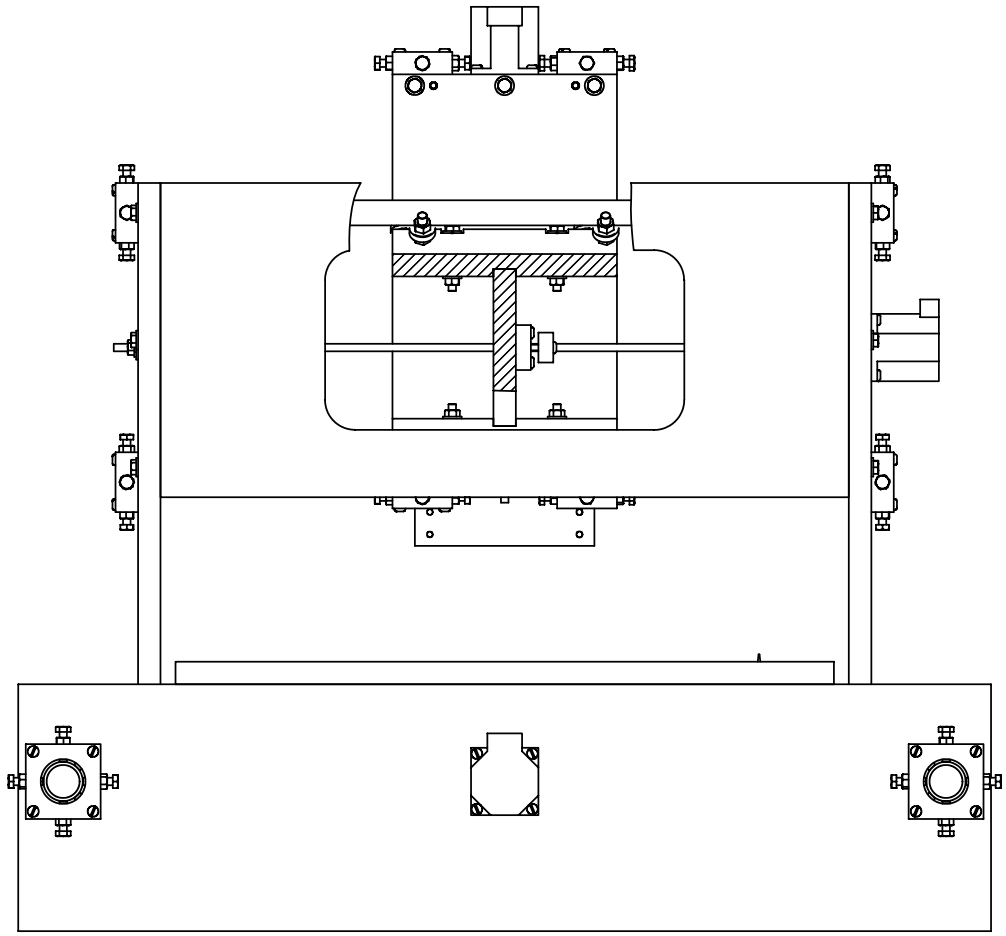
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



TITLE: CNC ROUTER - MAIN ASSEMBLY			
SIZE: D	MODEL NAME: cnc_assy01		REV
SCALE: 1:2	NO. REQ'D:	SHEET 4 OF 6	

D | cnc_assy01 | 0

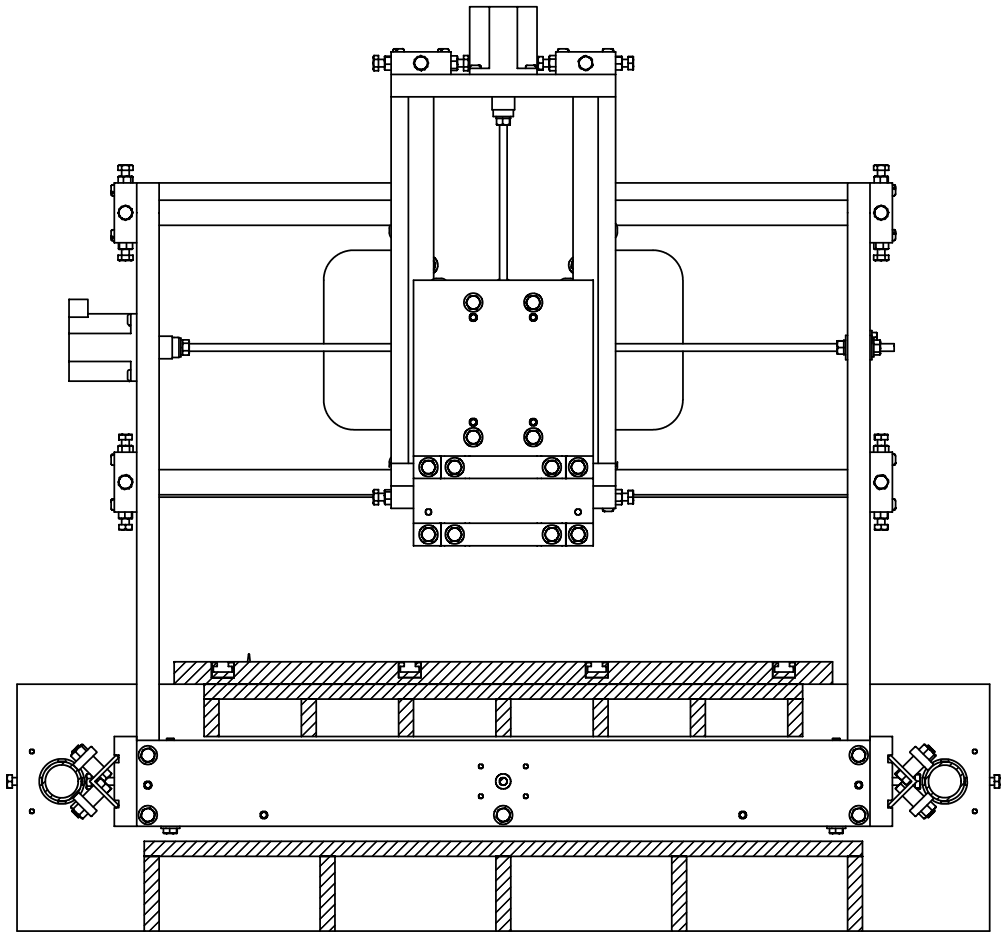
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



TITLE: CNC ROUTER - MAIN ASSEMBLY			
SIZE: D	MODEL NAME: cnc_assy01		REV
SCALE: 1:2	NO. REQ'D:		SHEET 5 OF 6

D	cnc_assy01	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

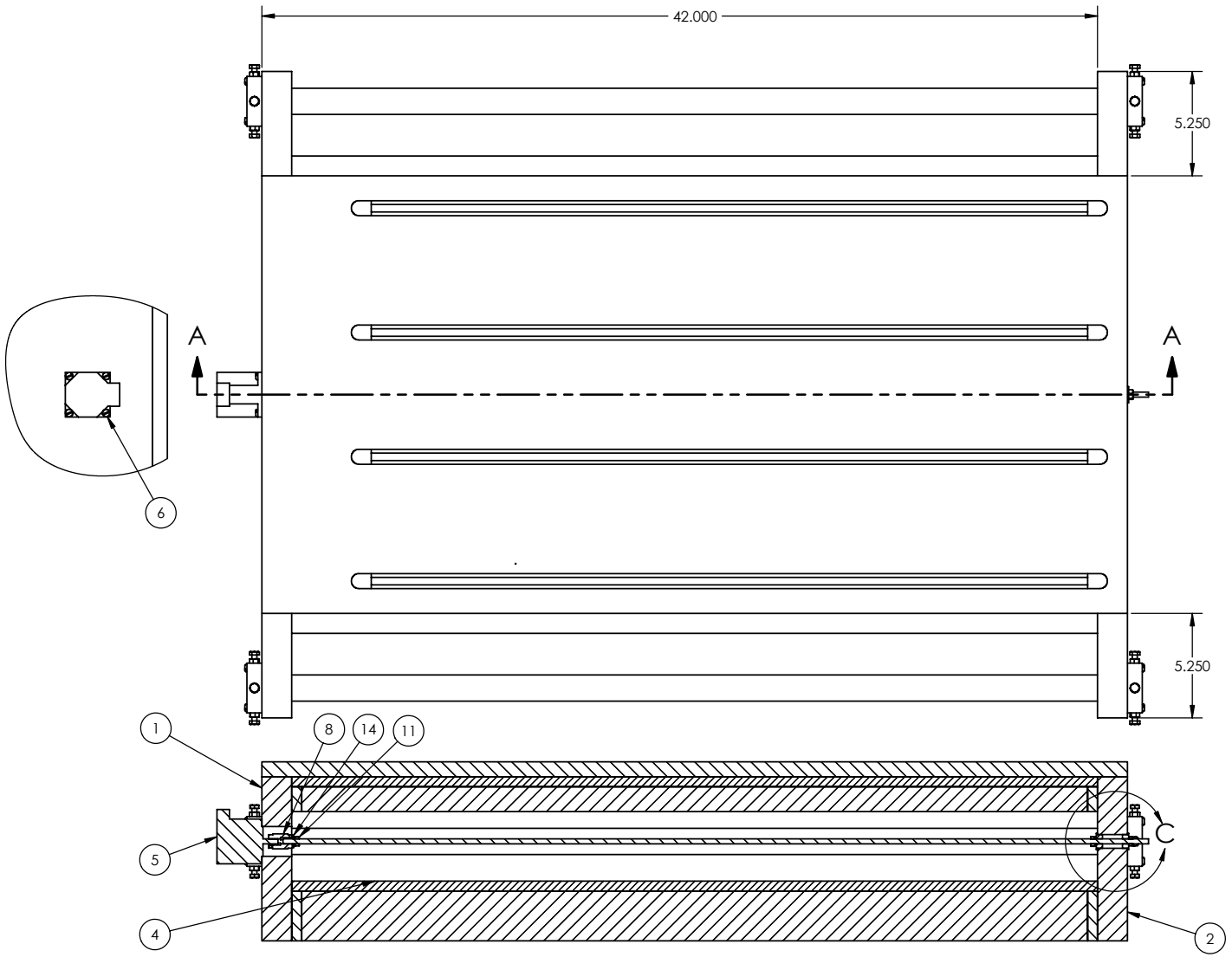


SECTION A-A

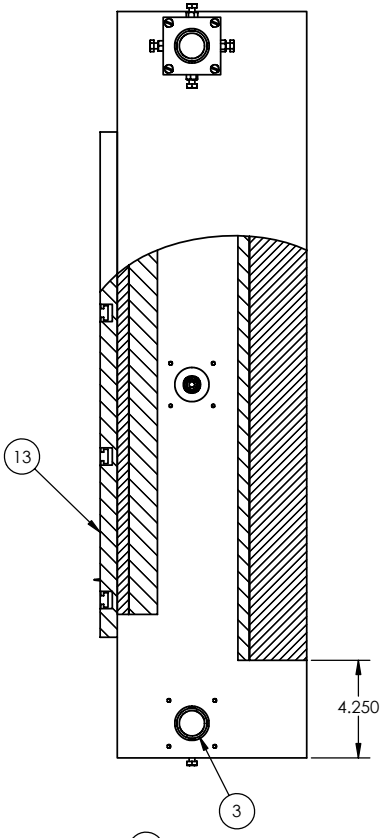
TITLE: CNC ROUTER - MAIN ASSEMBLY		
SIZE: D	MODEL NAME: cnc_assy01	REV
SCALE: 1:2	NO. REQ'D:	SHEET 6 OF 6

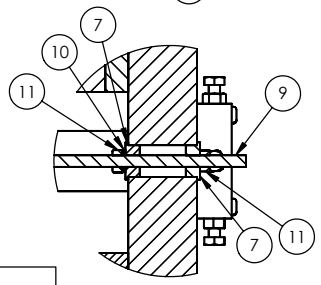
D | cnc_assy01

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



SECTION A-A





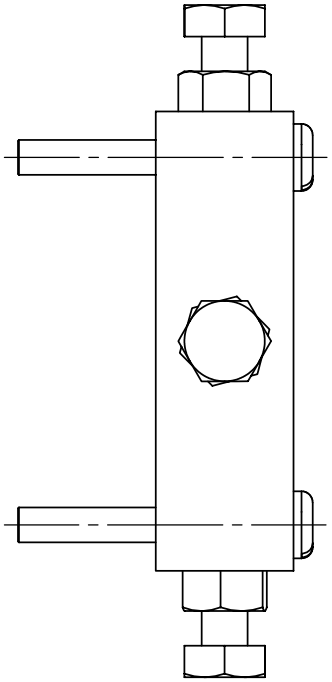
DETAIL C
SCALE 1 : 2

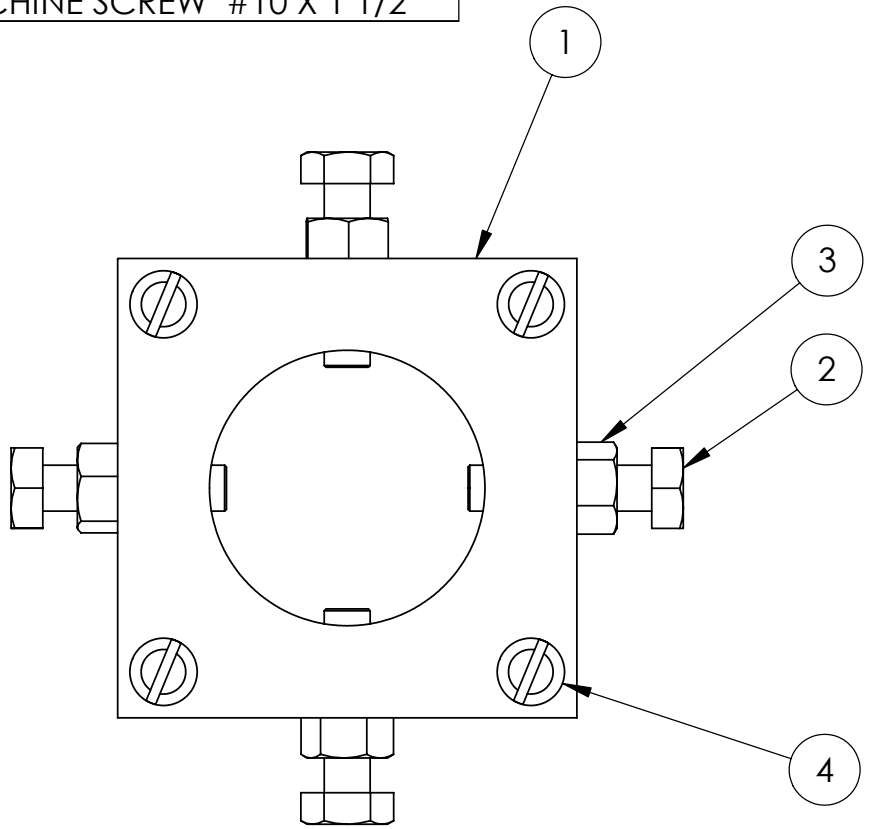
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl01	SUPPORT - MOTOR SIDE
2	1	cnc_dtl02	SUPPORT - BEARING SIDE
3	2	cnc_dtl03	Y GUIDE PIPE
4	1	cnc_dtl05	BASE SUPPORT STRUCTURE
5	1	cnc_dtl08	STEPPER MOTOR
6	4	MACHINE SCREW #10 X 1/2	MACHINE SCREW #10 X 1/2
7	2	cnc_dtl11	FLANGED BEARING
8	1	cnc_dtl09	COUPLER
9	1	cnc_dtl10	LEAD SCREW - Y AXIS
10	2	LOCK WASHER 1/4	LOCK WASHER 1/4
11	3	HEX NUT 1/4-20	HEX NUT 1/4
12	4	cnc_assy03	ADJUSTMENT BLOCK - LARGE
13	1	cnc_assy04	BED ASSEMBLY
14	1	FLAT WASHER 1/4	FLAT WASHER 1/4

DRAWN BY	jgro	DESCRIPTION:	
DATE	2-8-04	BASE ASSEMBLY	
MATERIAL		SIZE: C	MODEL NAME: cnc_assy02
STOCK SIZE		REV: -	
		SCALE: 1:4	NO. REQ'D: 1
		SHEET	

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

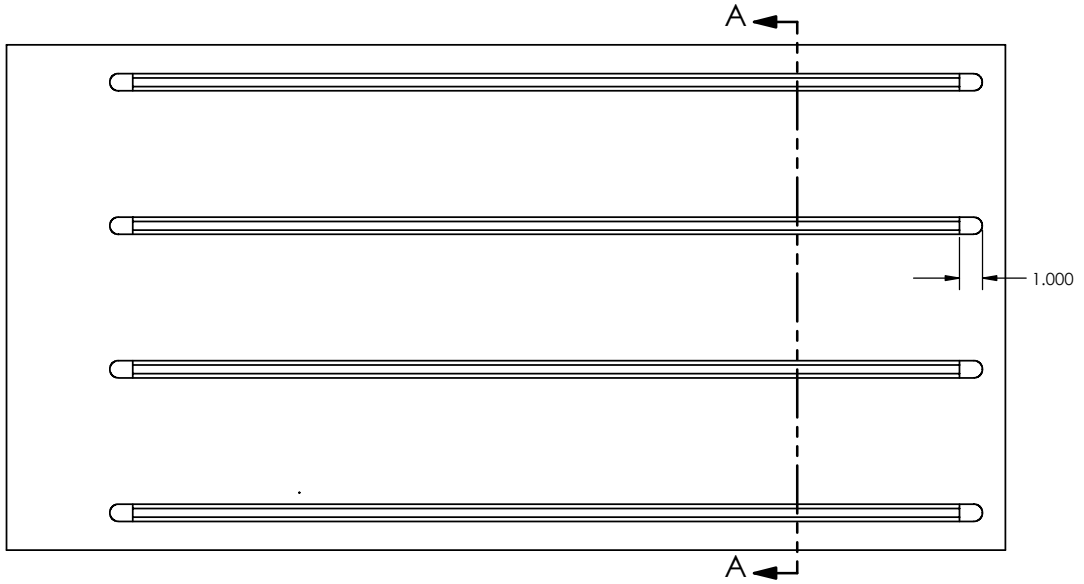
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl07	ADJUSTMENT BLOCK - LARGE
2	4	HEX HEAD BOLT 1/4-20 X 1	HEX HEAD BOLT 1/4-20 X 1
3	4	HEX NUT 1/4-20	HEX NUT 1/4
4	4	MACHINE SCREW #10 X 1 1/2	MACHINE SCREW #10 X 1 1/2

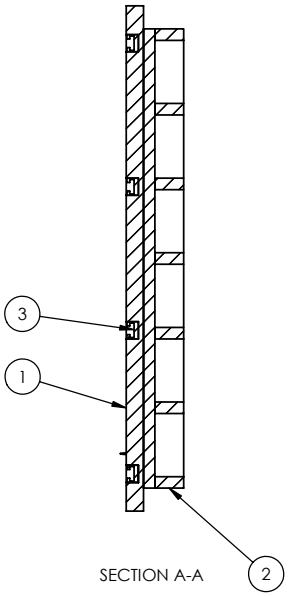




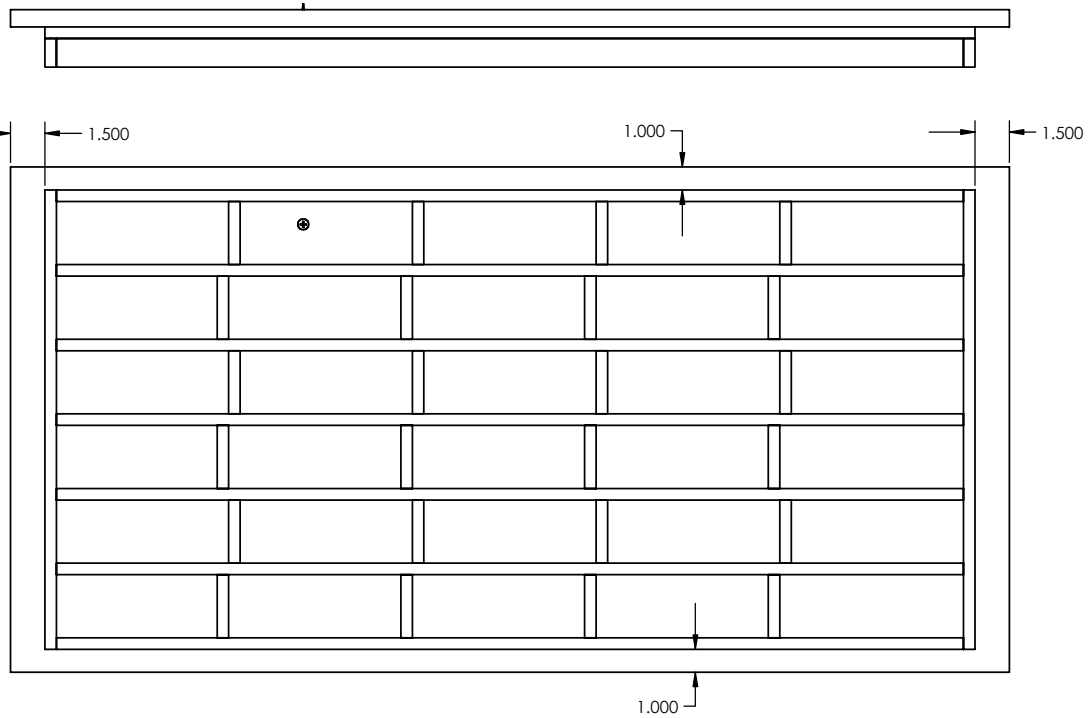
DRAWN BY	jgro	DESCRIPTION:	
DATE	2/8/2004	ADJUSTMENT BLOCK - LARGE	
MATERIAL		SIZE	MODEL NAME: / REV
STOCK SIZE		A	cnc_assy03 / -
		SCALE: 1:1	NO. REQ'D: / SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			





SECTION A-A

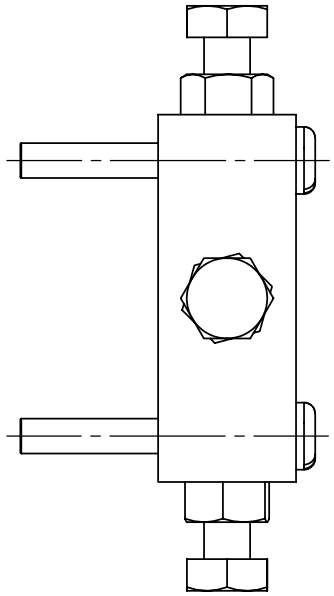


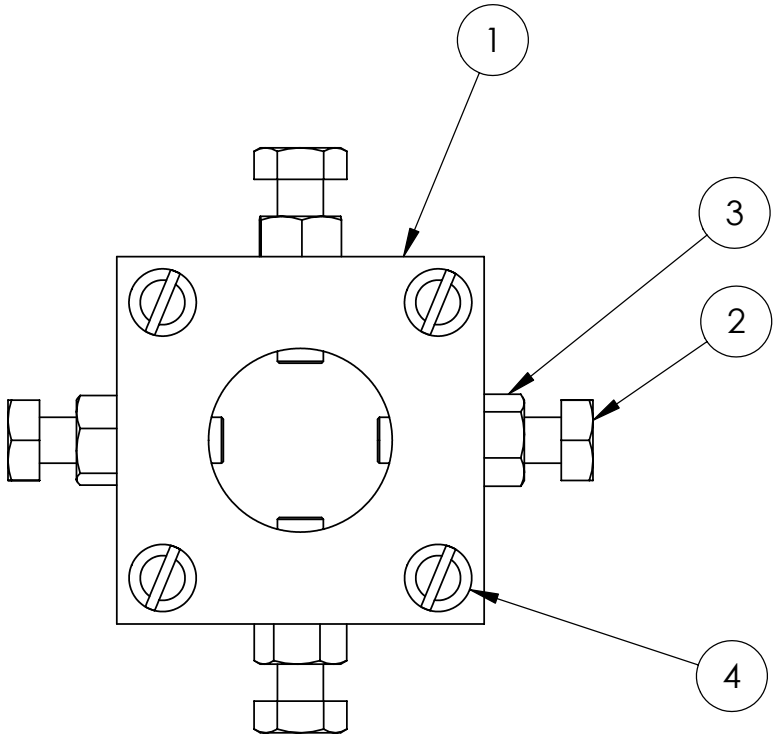
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl04	CUTTING BED
2	1	cnc_dtl06	BED SUPPORT
3	4	cnc_dtl12	HOLD DOWN CHANNEL
4	1	wood_screw	WOOD SCREW

DRAWN BY	jgro	DESCRIPTION: BED ASSEMBLY	
DATE	2-8-04		
MATERIAL		SIZE C	MODEL NAME: cnc_assy04 REV -
STOCK SIZE		SCALE: 1:4	NO. REQ'D: 1 SHEET

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl13	ADJUSTMENT BLOCK - SMALL
2	4	HEX HEAD BOLT 1/4-20 X 1	HEX HEAD BOLT 1/4-20 X 1
3	4	HEX NUT 1/4-20	HEX NUT 1/4
4	4	MACHINE SCREW #10 X 1 1/2	MACHINE SCREW #10 X 1 1/2





DRAWN BY	jgro
DATE	2/11/2004
MATERIAL	
STOCK SIZE	

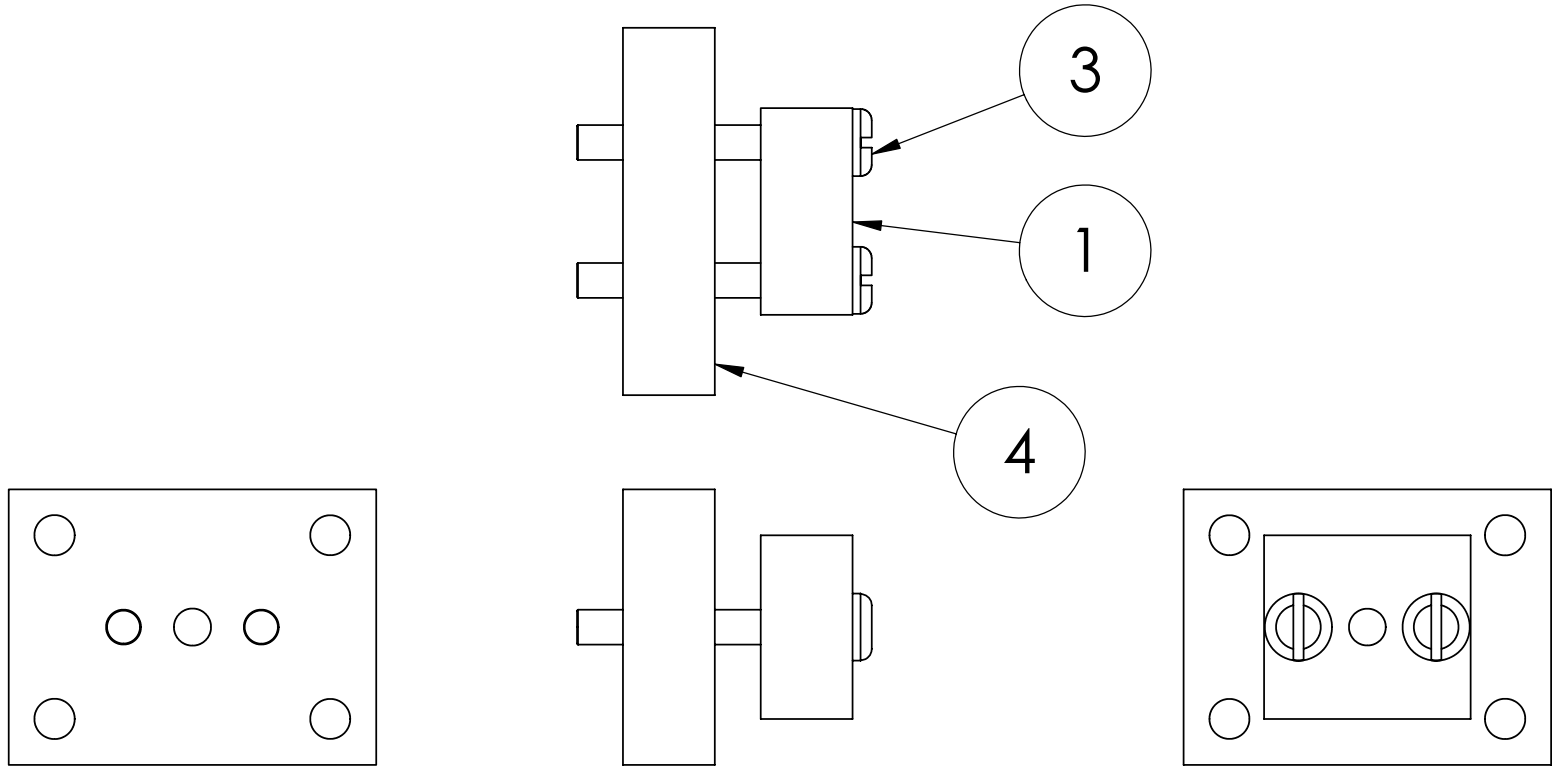
DESCRIPTION:
ADJUSTMENT BLOCK ASSY

SIZE	MODEL NAME:	REV
A	cnc_assy05	-

SCALE: 1:1	NO. REQ'D: 8	SHEET

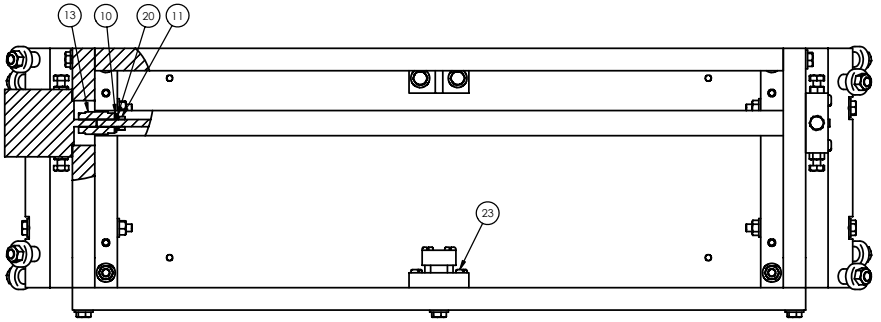
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

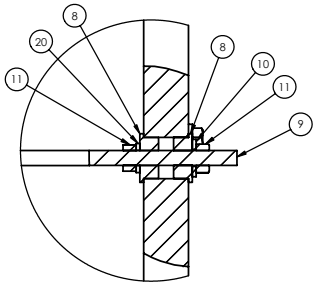
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl15	NUT TENSIONER
3	2	MACHINE SCREW #10 X 1 1/2	MACHINE SCREW #10 X 1 1/2
4	1	cnc_dtl14	ANTI-BACKLASH NUT



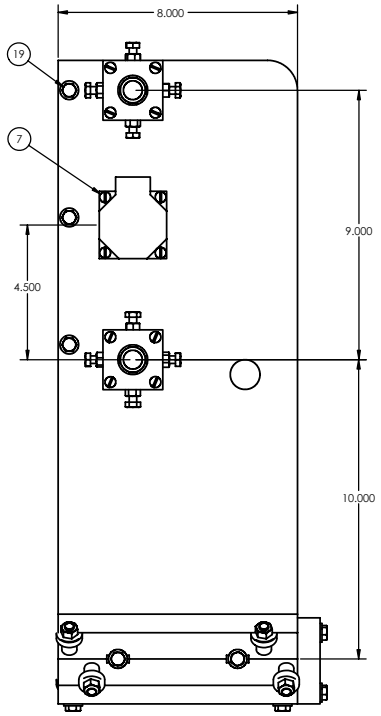
DRAWN BY	jgro	DESCRIPTION:	
DATE	2/11/2004	ANTI-BACKLASH NUT ASSEMBLY	
MATERIAL		SIZE	MODEL NAME: / REV
STOCK SIZE		A	cnc_assy06 / -
		SCALE: 1:1	NO. REQ'D: 3 / SHEET

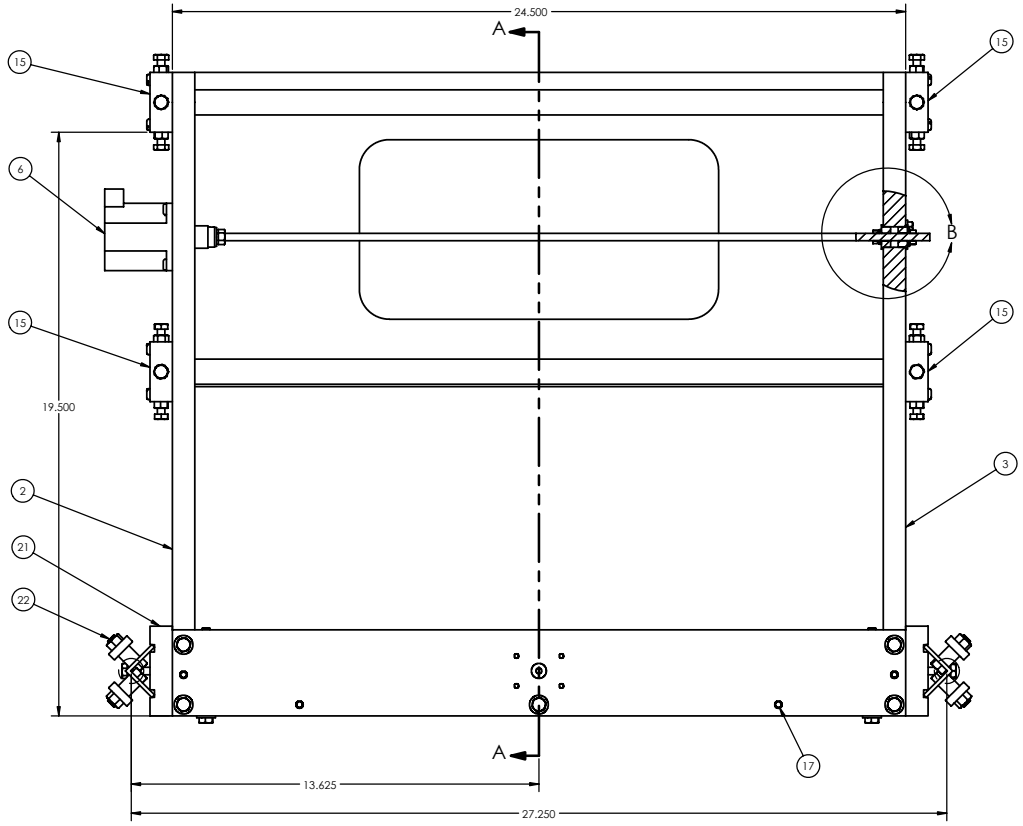
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dt118	GANTRY - BOTTOM
2	1	cnc_dt116	GANTRY - LEFT SIDE
3	1	cnc_dt117	GANTRY - RIGHT SIDE
4	1	cnc_dt120	GANTRY - FRONT
5	2	cnc_dt128	X GUIDE PIPE
6	1	cnc_dt108	STEPPER MOTOR
7	4	MACHINE SCREW #10 X 3/4	MACHINE SCREW #10 X 1
8	2	cnc_dt111	FLANGED BEARING
9	1	cnc_dt122	X AXIS LEAD SCREW
10	27	FLAT WASHER 1/4	FLAT WASHER 1/4
11	11	HEX NUT 1/4-20	HEX NUT 1/4
12	1	cnc_assy06	ANTI-BACKLASH NUT ASSEMBLY
13	1	cnc_dt109	COUPLER
14	1	cnc_dt119	GANTRY - REAR BRACE
15	4	cnc_assy05	ADJUSTMENT BLOCK ASSY
16	2	cnc_dt121	GANTRY - CORNER BLOCK
17	12	dowel_pin	.250 DIA X 1.50 LG.
18	4	HEX HEAD BOLT 1/4-20 X 3	HEX HEAD BOLT 1/4-20 X 3
19	13	HEX HEAD BOLT 1/4-20 X 1 1/2	HEX HEAD BOLT 1/4-20 X 1 1/2
20	2	LOCK WASHER 1/4	LOCK WASHER 1/4
21	2	cnc_dt130	Y BEARING BLOCK
22	2	cnc_assy08	Y LINEAR GUIDE ASSY
23	4	MACHINE SCREW #10 X 1	MACHINE SCREW #10 X 1
24	1	cnc_dt124	ANTI-WHIP BLOCK SPACER
25	1	cnc_dt123	ANTI-WHIP BLOCK

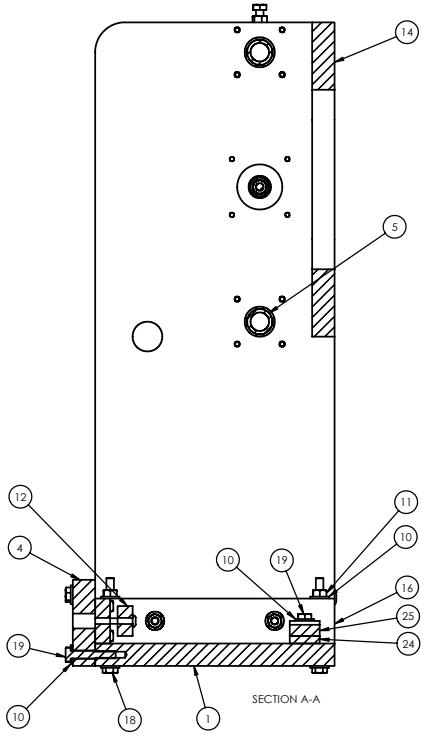




DETAIL B
SCALE 1 : 1



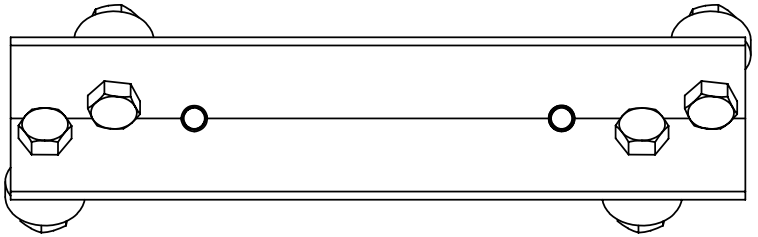


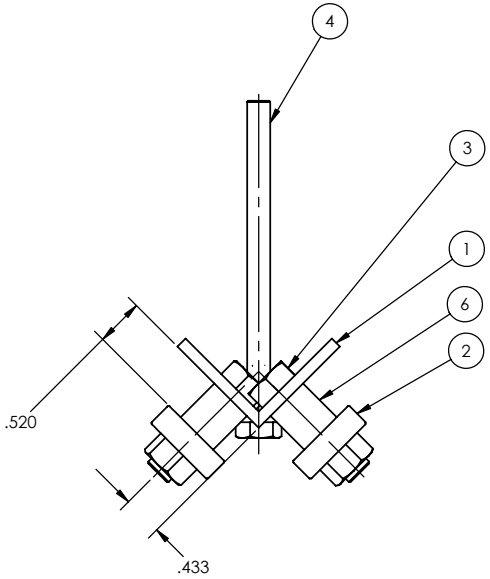


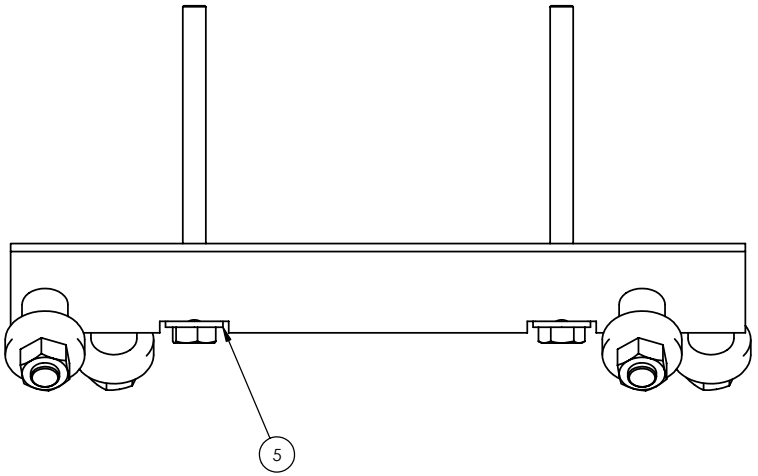
SECTION A-A

DRAWN BY	jgro	DESCRIPTION: GANTRY ASSEMBLY	
DATE	2/13/2004		
MATERIAL		SIZE	MODEL NAME: cnc_assy07
STOCK SIZE		D	REV -
		SCALE: 1:2	NO. REQ'D: 1
			SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			







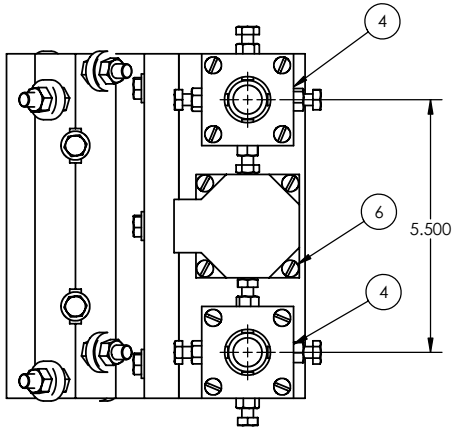
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl25	Y LINEAR BEARING
2	4	cnc_dtl27	SKATE BEARING
3	4	HEX HEAD BOLT 5/16-18 X 1 1/4	HEX HEAD BOLT 5/16-18 X 1 1/2
4	2	HEX HEAD BOLT 1/4-20 X 3 1/2	HEX HEAD BOLT 1/4-20 X 3 1/2
5	2	FLAT WASHER 1/4	FLAT WASHER 1/4
6	4	cnc_dtl26	Y LINEAR GUIDE SPACER
7	4	HEX NUT 5/16-18	HEX NUT 5/16

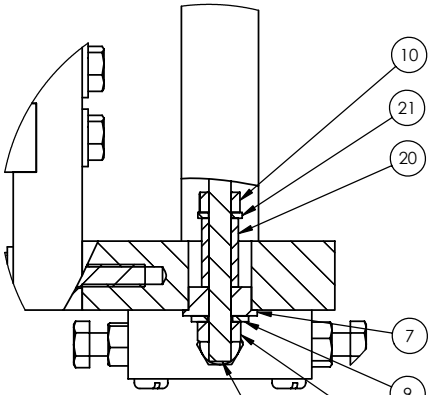
DRAWN BY	jgro	DESCRIPTION:	
DATE	2-14-04	Y LINEAR GUIDE ASSY	
MATERIAL		SIZE: C	MODEL NAME: cnc_assy08
STOCK SIZE		REV: -	
		SCALE: 1:1	NO. REQ'D: 2
		SHEET	

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl31	X AXIS PLATFORM
2	2	cnc_assy10	X AXIS LINEAR GUIDE ASSY
3	1	cnc_dtl08	STEPPER MOTOR
4	4	cnc_assy05	ADJUSTMENT BLOCK ASSY
5	2	cnc_dtl35	Z AXIS GUIDE PIPE
6	4	MACHINE SCREW #10 X 3/4	MACHINE SCREW #10 X 1
7	1	cnc_dtl11	FLANGED BEARING
8	1	cnc_dtl36	Z AXIS LEAD SCREW
9	19	FLAT WASHER 1/4	FLAT WASHER 1/4
10	7	HEX NUT 1/4-20	HEX NUT 1/4
11	1	cnc_assy06	ANTI-BACKLASH NUT ASSEMBLY
12	1	cnc_dtl09	COUPLER
13	1	cnc_dtl32	X AXIS TOP PLATE
14	1	cnc_dtl33	X AXIS BOTTOM PLATE
15	2	cnc_dtl34	X AXIS BEARING MOUNT
16	1	cnc_dtl37	X AXIS NUT SUPPORT
17	8	HEX HEAD BOLT 1/4-20 X 1	HEX HEAD BOLT 1/4-20 X 1
18	6	HEX HEAD BOLT 1/4-20 X 1 1/2	HEX HEAD BOLT 1/4-20 X 1 1/2
19	4	dowel_pin	.250 DIA X 1.50 LG.
20	1	cnc_dtl29	SPACER - SMALL
21	2	LOCK WASHER 1/4	LOCK WASHER 1/4
22	1	MACHINE SCREW #10 X 1 1/4	MACHINE SCREW #10 X 1
23	3	MACHINE SCREW #10 X 1	MACHINE SCREW #10 X 1

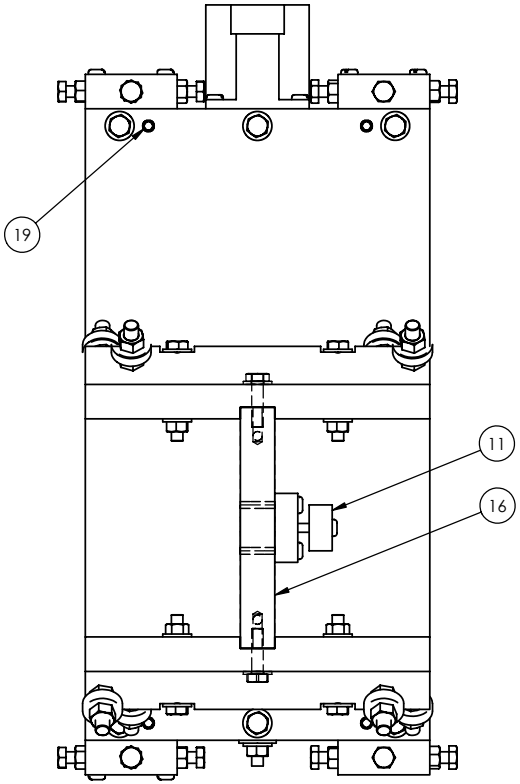
REVISIONS

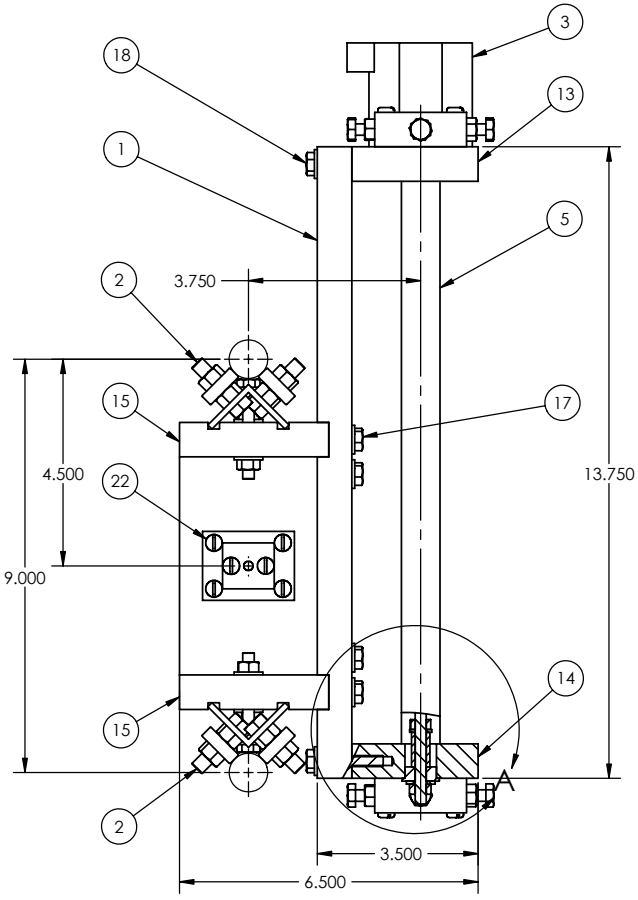
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

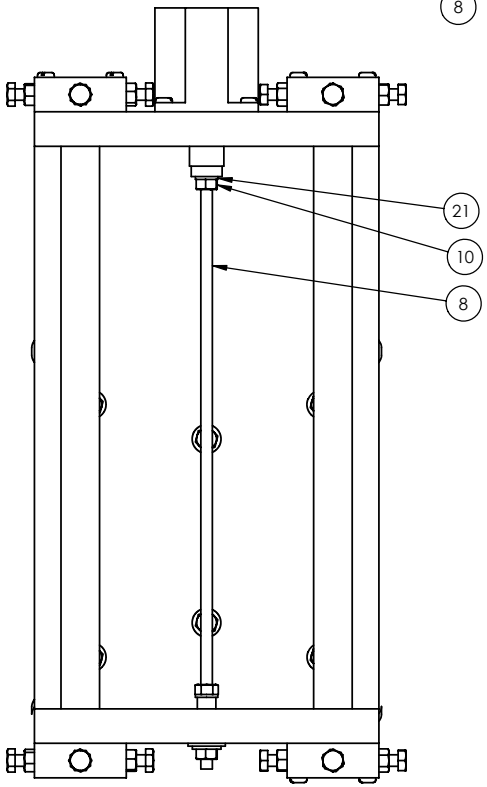




DETAIL A
SCALE 1 : 1

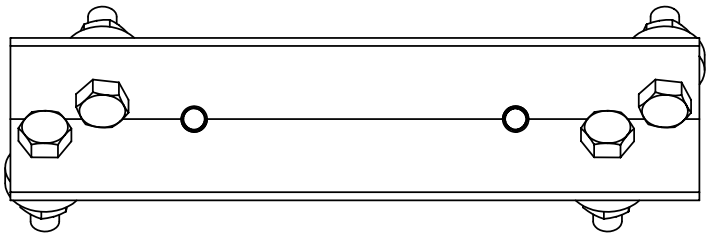


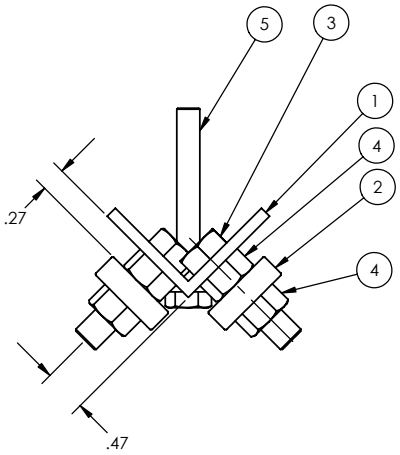


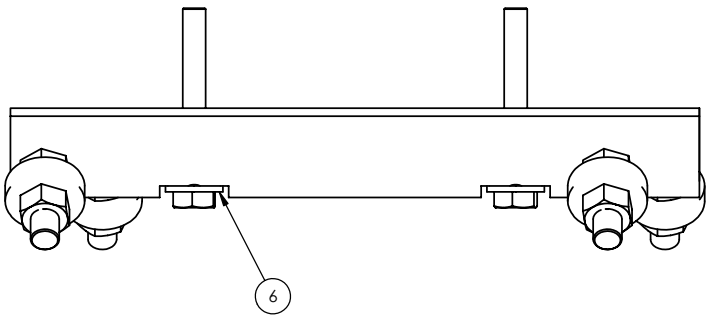


DRAWN BY	jgro	DESCRIPTION:	
DATE	2/13/2004	X AXIS ASSEMBLY	
MATERIAL		SIZE	MODEL NAME: REV
STOCK SIZE		C	cnc_assy09 -
		SCALE: 1:2	NO. REQ'D: 1 SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			





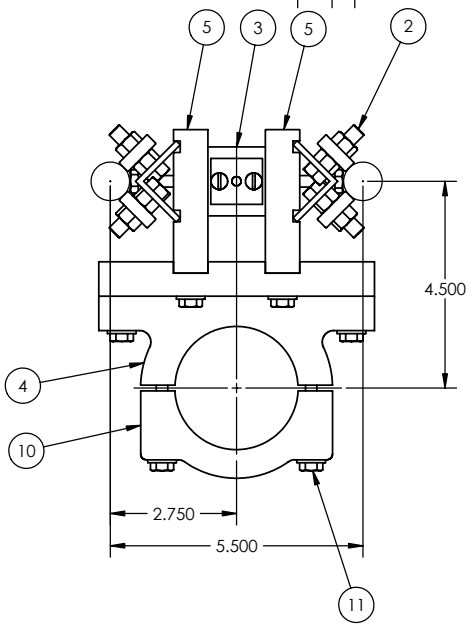


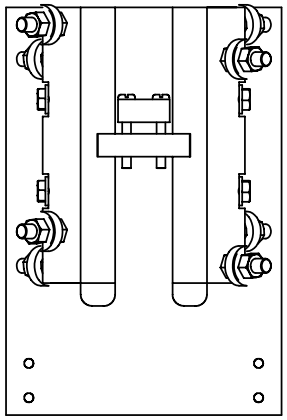
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl38	X LINEAR BEARING
2	4	cnc_dtl27	SKATE BEARING
3	4	HEX HEAD BOLT 5/16-18 X 1 1/4	HEX HEAD BOLT 5/16-18 X 1 1/2
4	8	HEX NUT 5/16-18	HEX NUT 5/16
5	2	HEX HEAD BOLT 1/4-20 X 2	HEX HEAD BOLT 1/4-20 X 2
6	2	FLAT WASHER 1/4	FLAT WASHER 1/4

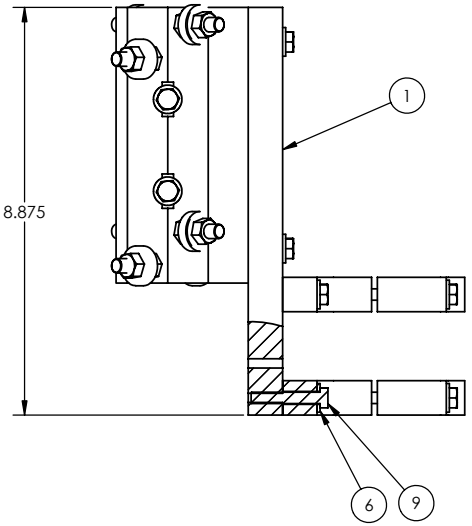
DRAWN BY	jgro	DESCRIPTION:	
DATE	2/13/2004	X AXIS LINEAR GUIDE ASSY	
MATERIAL		SIZE	MODEL NAME: REV
STOCK SIZE		C	cnc_assy10 -
		SCALE: 1:1	NO. REQ'D: 2 SHEET

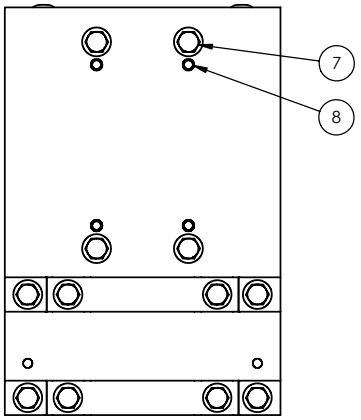
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl39	Z AXIS PLATFORM
2	2	cnc_assy12	Z AXIS LINEAR GUIDE ASSY
3	1	cnc_assy06	ANTI-BACKLASH NUT ASSEMBLY
4	2	cnc_dtl41	ROUTER CLAMP BASE
5	2	cnc_dtl40	Z AXIS BEARING SUPPORT
6	12	FLAT WASHER 1/4	FLAT WASHER 1/4
7	4	HEX HEAD BOLT 1/4-20 X 1	HEX HEAD BOLT 1/4-20 X 1
8	4	dowel_pin	.250 DIA X 1.50 LG.
9	4	HEX HEAD BOLT 1/4-20 X 1 1/2	HEX HEAD BOLT 1/4-20 X 1 1/2
10	2	cnc_dtl42	ROUTER CLAMP
11	4	HEX HEAD BOLT 1/4-20 X 2	HEX HEAD BOLT 1/4-20 X 2



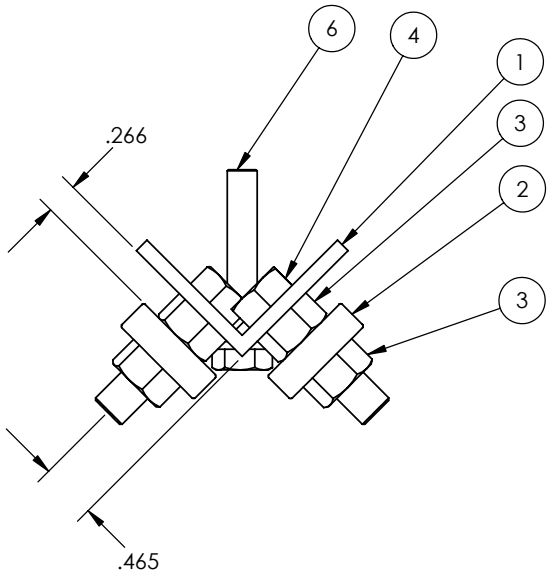


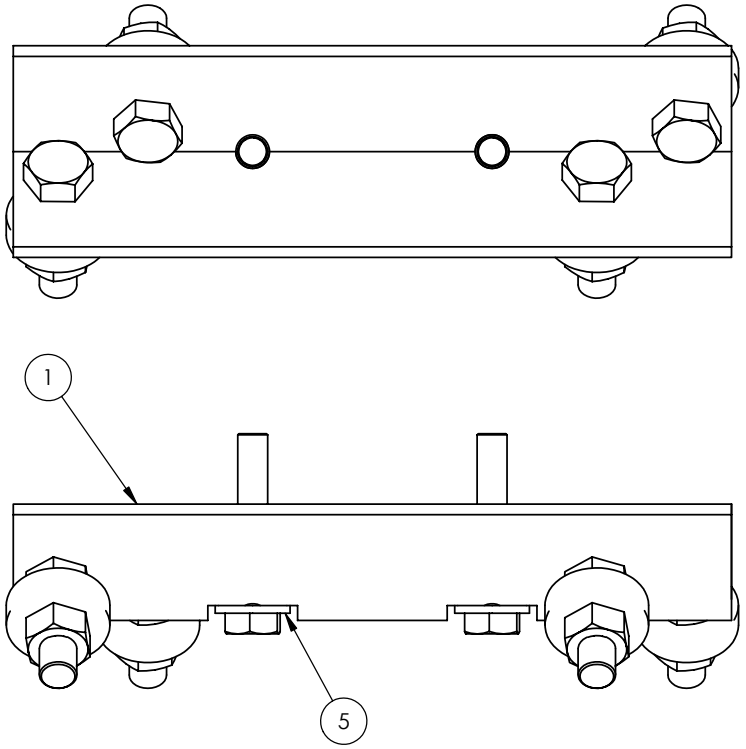




DRAWN BY	jgro	DESCRIPTION:	
DATE	2/13/2004	Z AXIS ASSEMBLY	
MATERIAL		SIZE: C	MODEL NAME: cnc_assy11
STOCK SIZE		REV: -	
		SCALE: 1:2	NO. REQ'D: 1
		SHEET	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

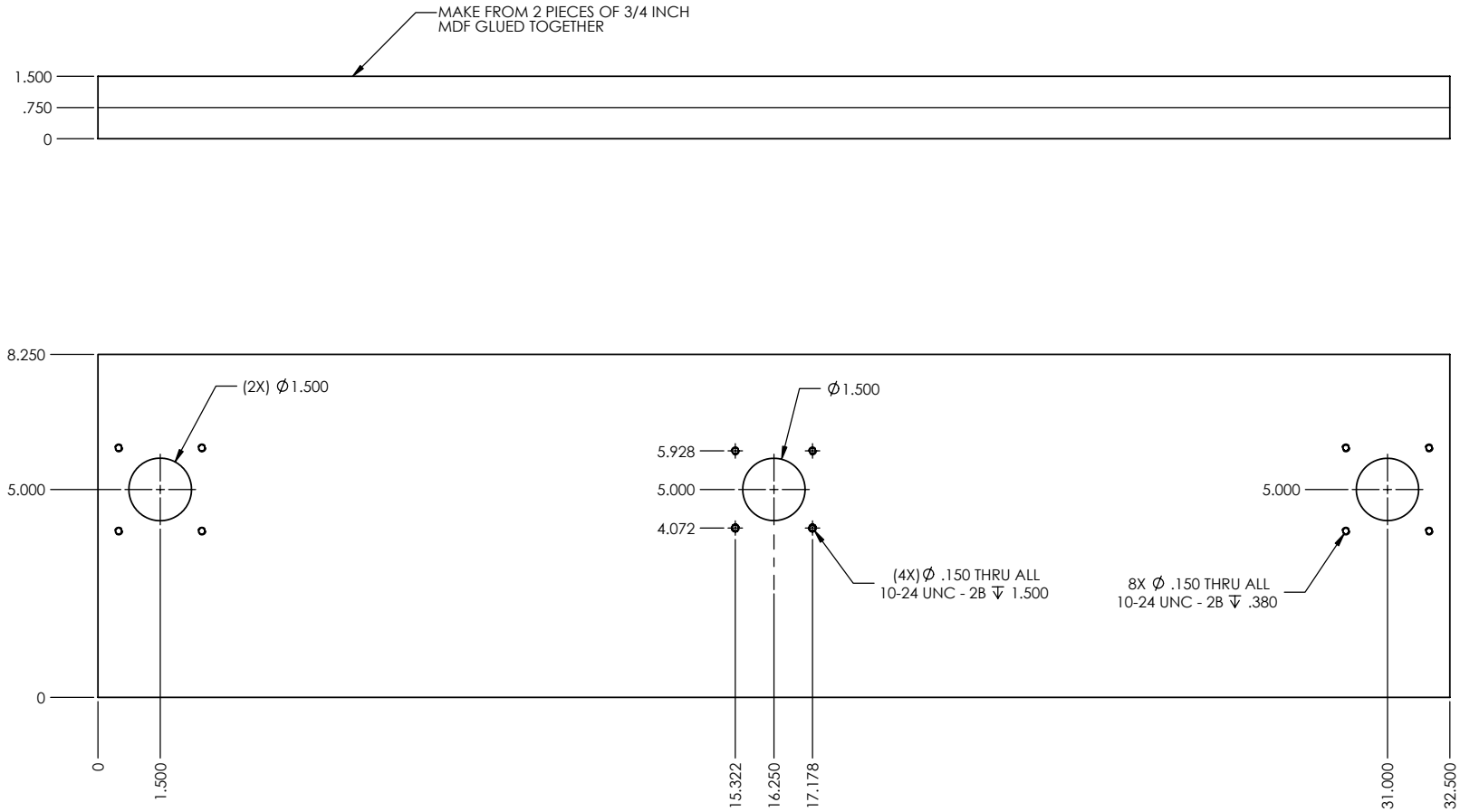




ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	cnc_dtl43	Z AXIS LINEAR BEARING
2	4	cnc_dtl27	SKATE BEARING
3	8	HEX NUT 5/16-18	HEX NUT 5/16
4	4	HEX HEAD BOLT 5/16-18 X 1 1/4	HEX HEAD BOLT 5/16-18 X 1 1/2
5	2	FLAT WASHER 1/4	FLAT WASHER 1/4
6	2	HEX HEAD BOLT 1/4-20 X 1 1/2	HEX HEAD BOLT 1/4-20 X 1 1/2

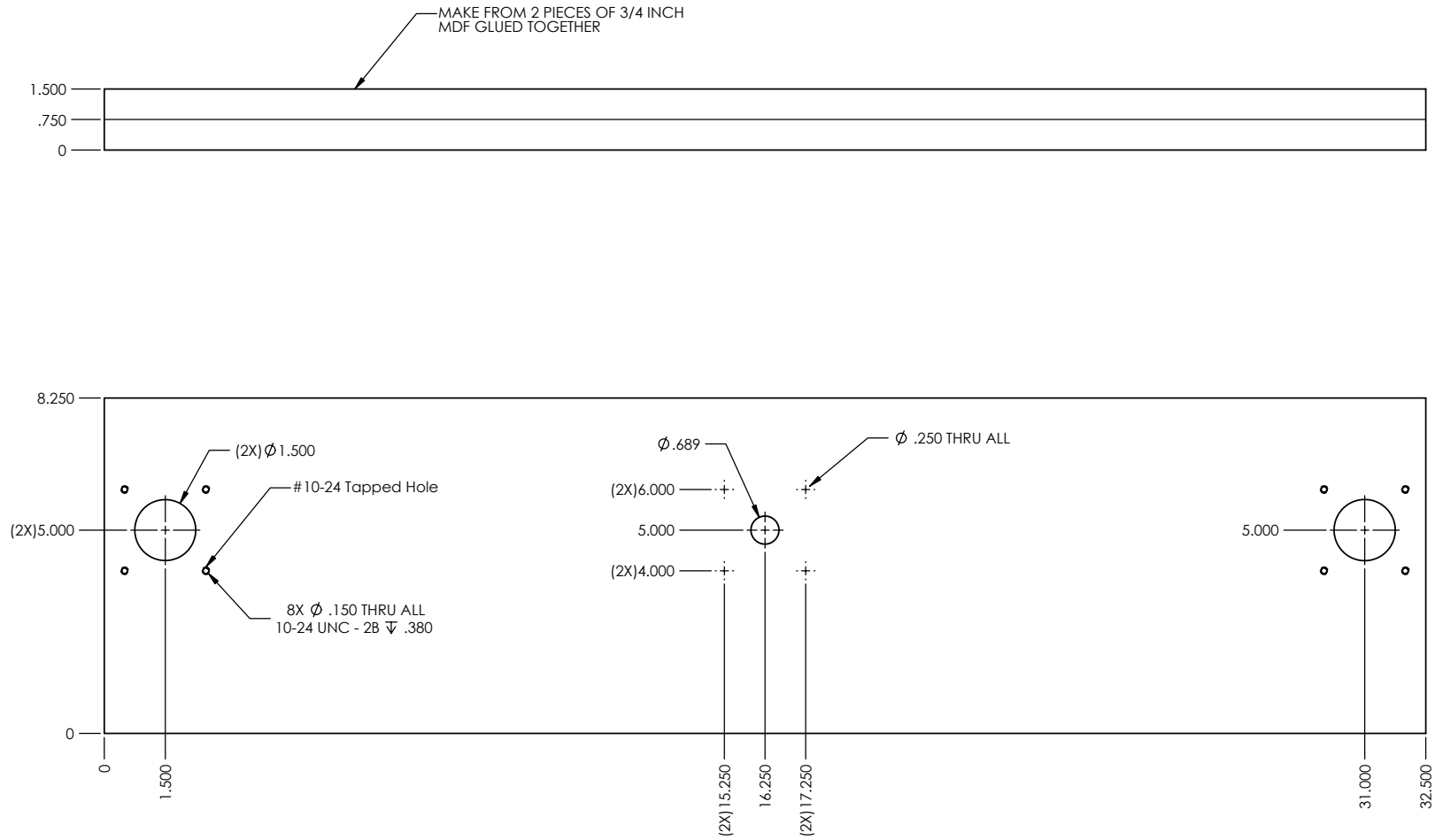
DRAWN BY	jgro	DESCRIPTION: Z AXIS LINEAR GUIDE ASSY	
DATE	2-13-04		
MATERIAL		SIZE: B	MODEL NAME: cnc_assy12
STOCK SIZE			REV: -
		SCALE: 1:1	NO. REQ'D: 2
			SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



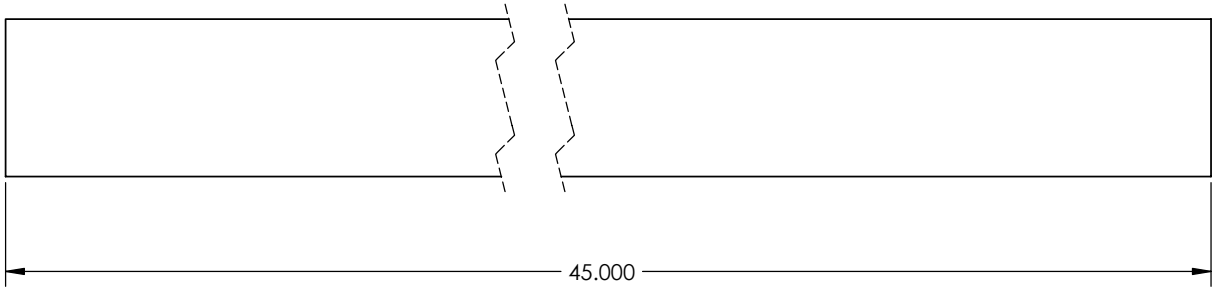
DRAWN BY	jgro	DESCRIPTION:	
DATE	2/5/2004	SUPPORT - MOTOR SIDE	
MATERIAL	MDF	SIZE: C	MODEL NAME: cnc_dtl01 — REV: -
STOCK SIZE	1.5 x 8.25 x 16.25	SCALE: 1:2	NO. REQ'D: — SHEET 1 OF 1

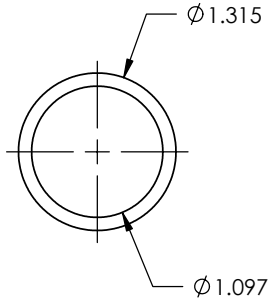
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



DRAWN BY	jgro	DESCRIPTION:		
DATE	2/5/2004	SUPPORT - BEARING SIDE		
MATERIAL	MDF	SIZE	MODEL NAME:	REV
STOCK SIZE		C	cnc_dtl02	-
1.50 x 8.25 x 16.25		SCALE: 1:2	NO. REQ'D: 1	SHEET

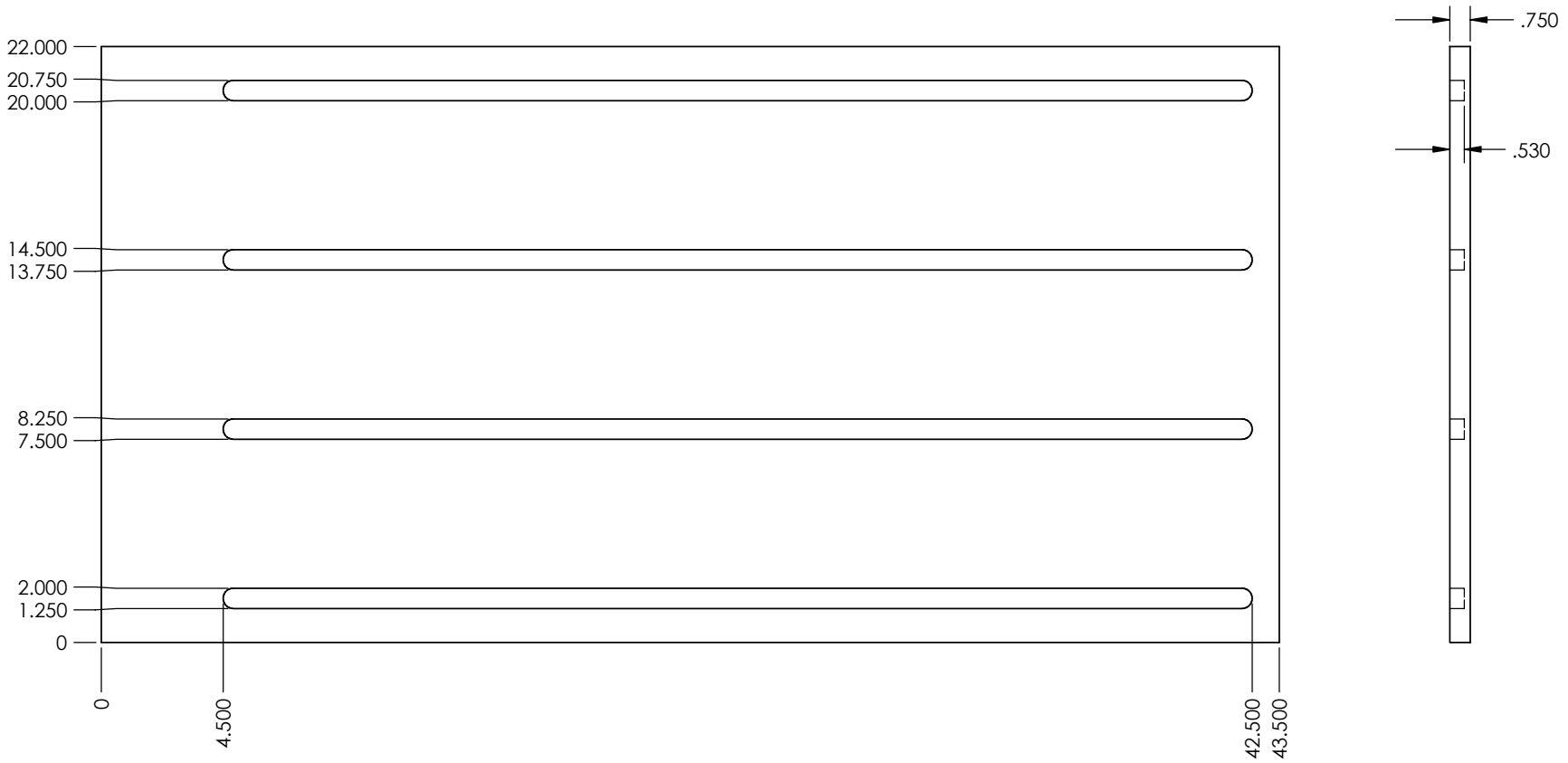
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			





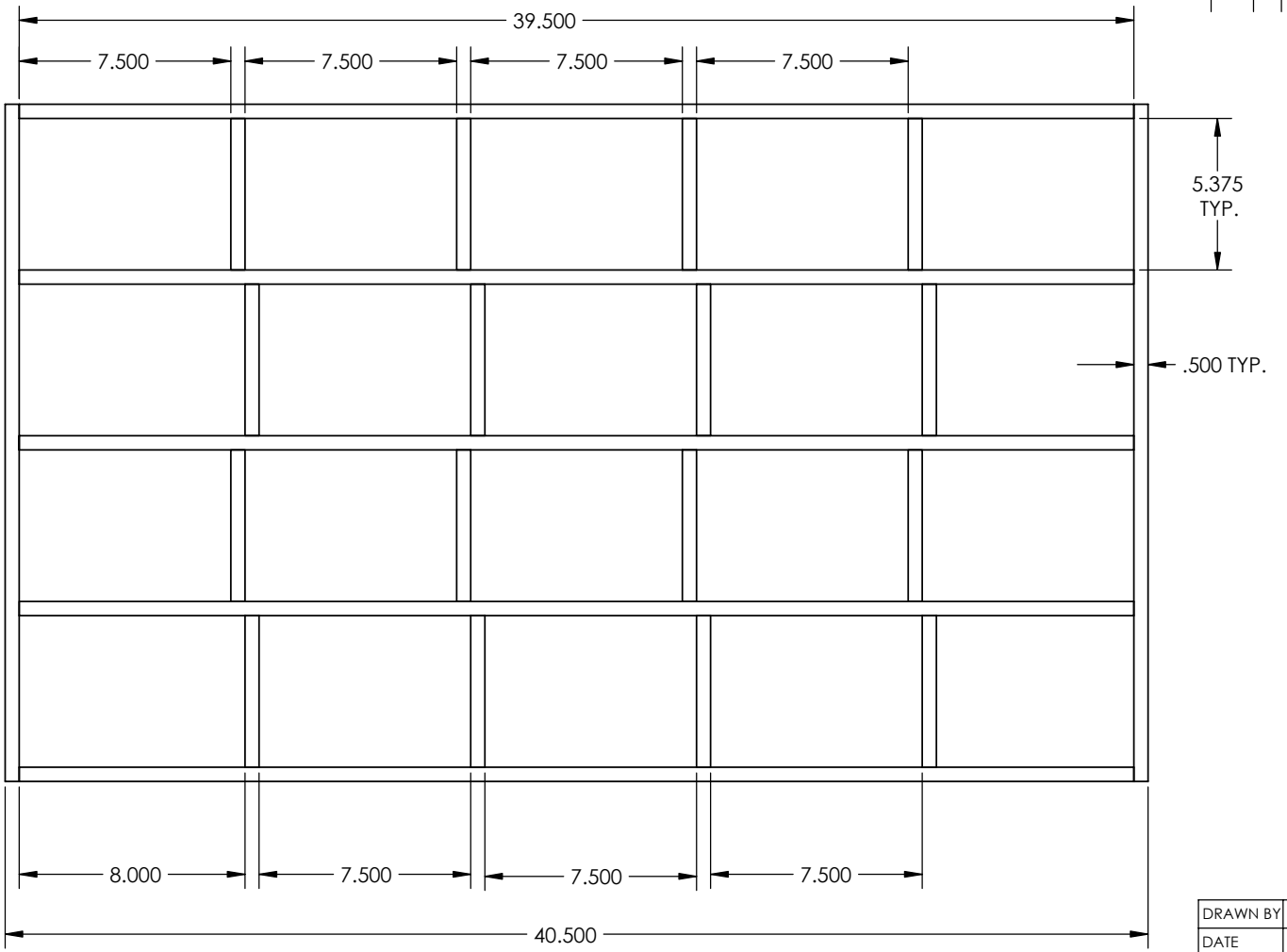
DRAWN BY	jgro	DESCRIPTION: Y GUIDE PIPE		
DATE	2/6/2004			
MATERIAL	1" GAS PIPE	SIZE: B	MODEL NAME: cnc_dtl03	REV: -
STOCK SIZE	1.315 x 45.00	SCALE: 1:1	NO. REQ'D: 2	SHEET

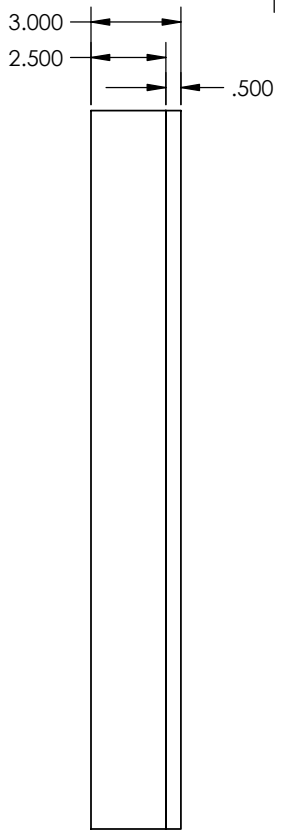
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



DRAWN BY	jgro	DESCRIPTION: CUTTING BED		
DATE	2/6/2004			
MATERIAL	MDF	SIZE B	MODEL NAME: cnc_dtl04	REV -
STOCK SIZE .75 x 22.00 x 43.50		SCALE: 1:4	NO. REQ'D: 1	SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

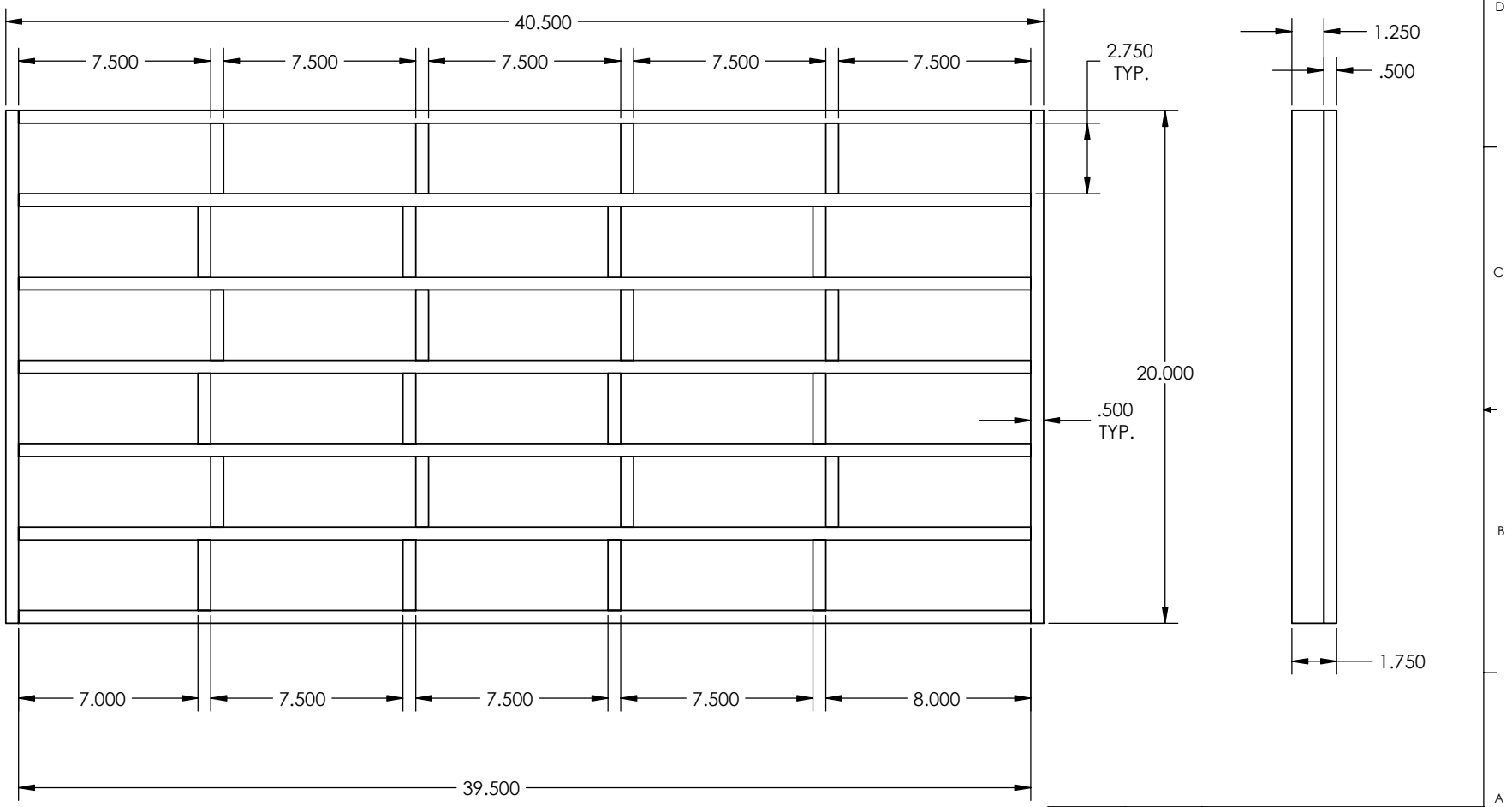




PIECES TO BE GLUED AND
NAILED TOGETHER

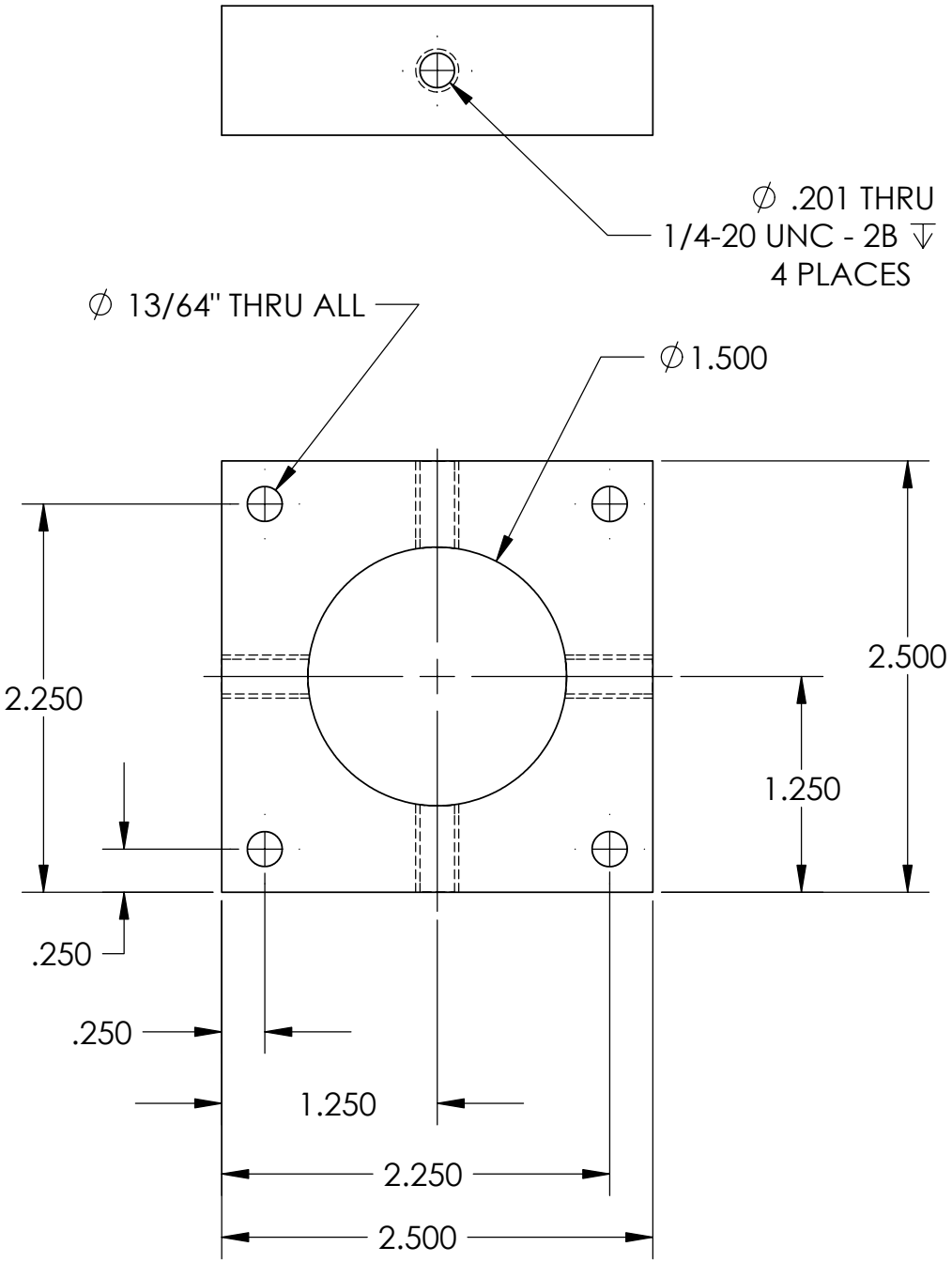
DRAWN BY	jgro	DESCRIPTION: BASE SUPPORT STRUCTURE	
DATE	2/5/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl05
STOCK SIZE SEE DRAWING		REV: -	
		SCALE: 1:1	NO. REQ'D: 1
		SHEET	

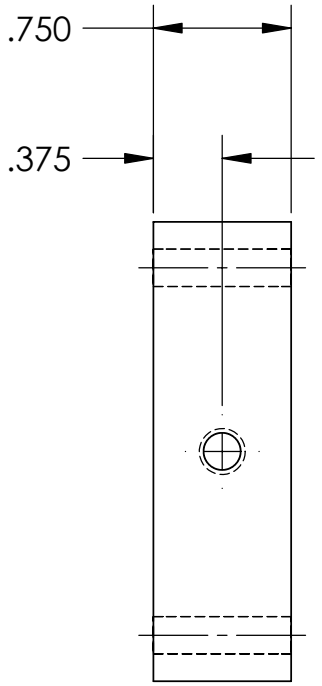
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



DRAWN BY	jgro	DESCRIPTION: BED SUPPORT		
DATE	2/5/2004			
MATERIAL	MDF	SIZE B	MODEL NAME: cnc_dtl06	REV -
STOCK SIZE SEE DRAWING		SCALE: 1:4	NO. REQ'D: 1	SHEET

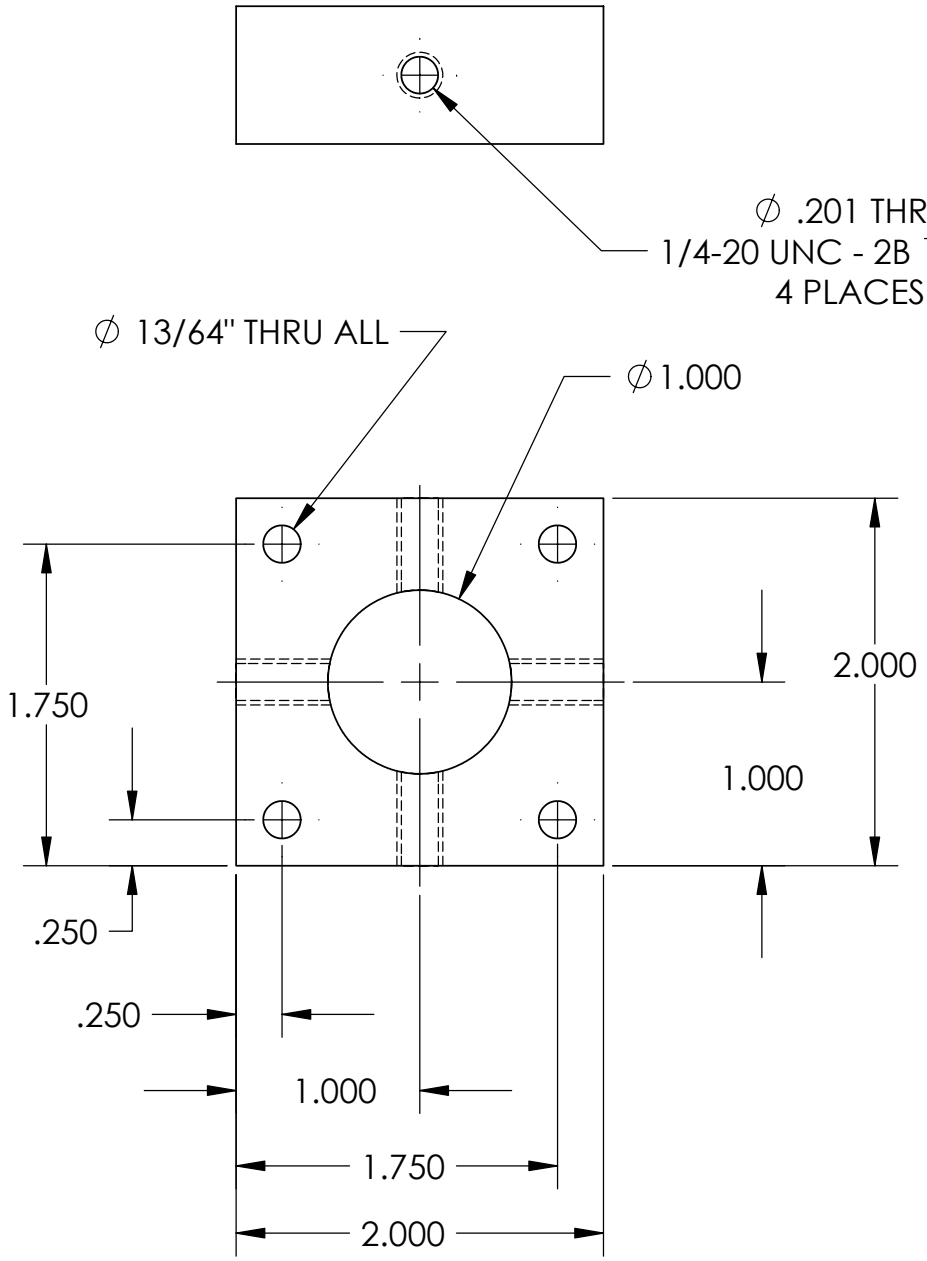
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

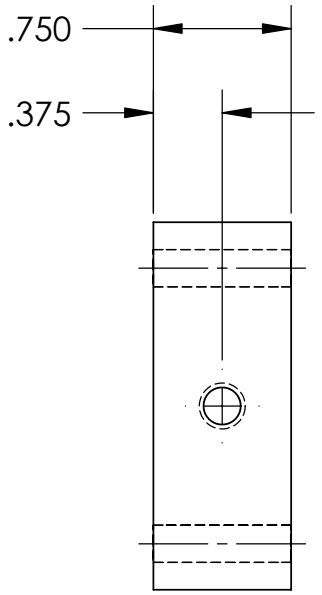




DRAWN BY	jgro	DESCRIPTION: ADJUSTMENT BLOCK - LARGE		
DATE	2/6/2004			
MATERIAL	MDF	SIZE	MODEL NAME:	REV
STOCK SIZE		A	cnc_dtl07	-
2.50 x 2.50 x .75		SCALE: 1:1	NO. REQ'D:	SHEET

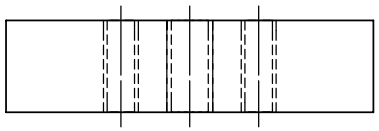
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

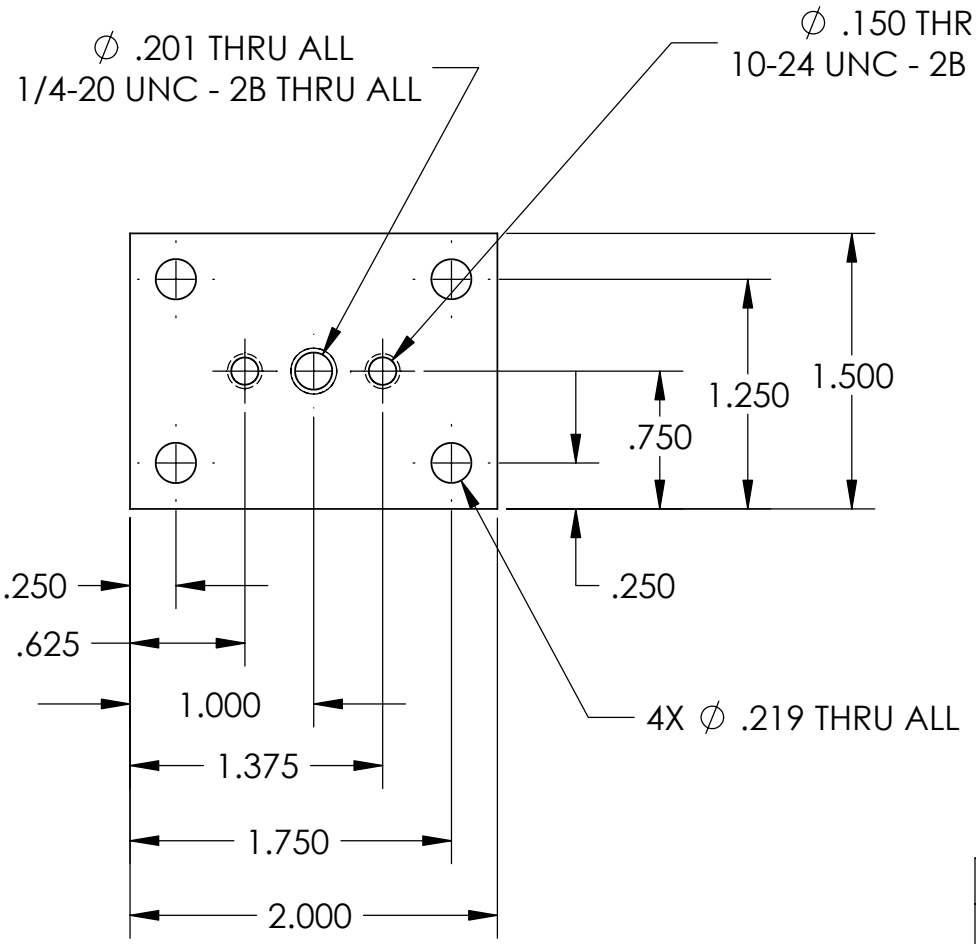


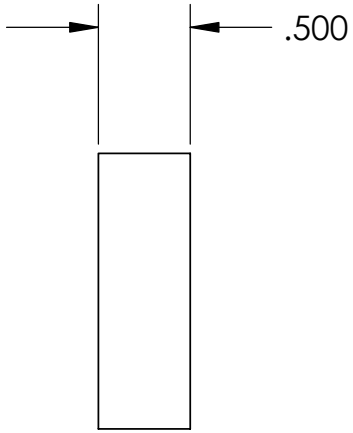


DRAWN BY	jgro	DESCRIPTION:		
DATE	2/11/2004	ADJUSTMENT BLOCK - SMALL		
MATERIAL	MDF	SIZE	MODEL NAME:	REV
STOCK SIZE		A	cnc_dtl13	-
.75 x 2.00 x 2.00		SCALE: 1:1	NO. REQ'D: 8	SHEET

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

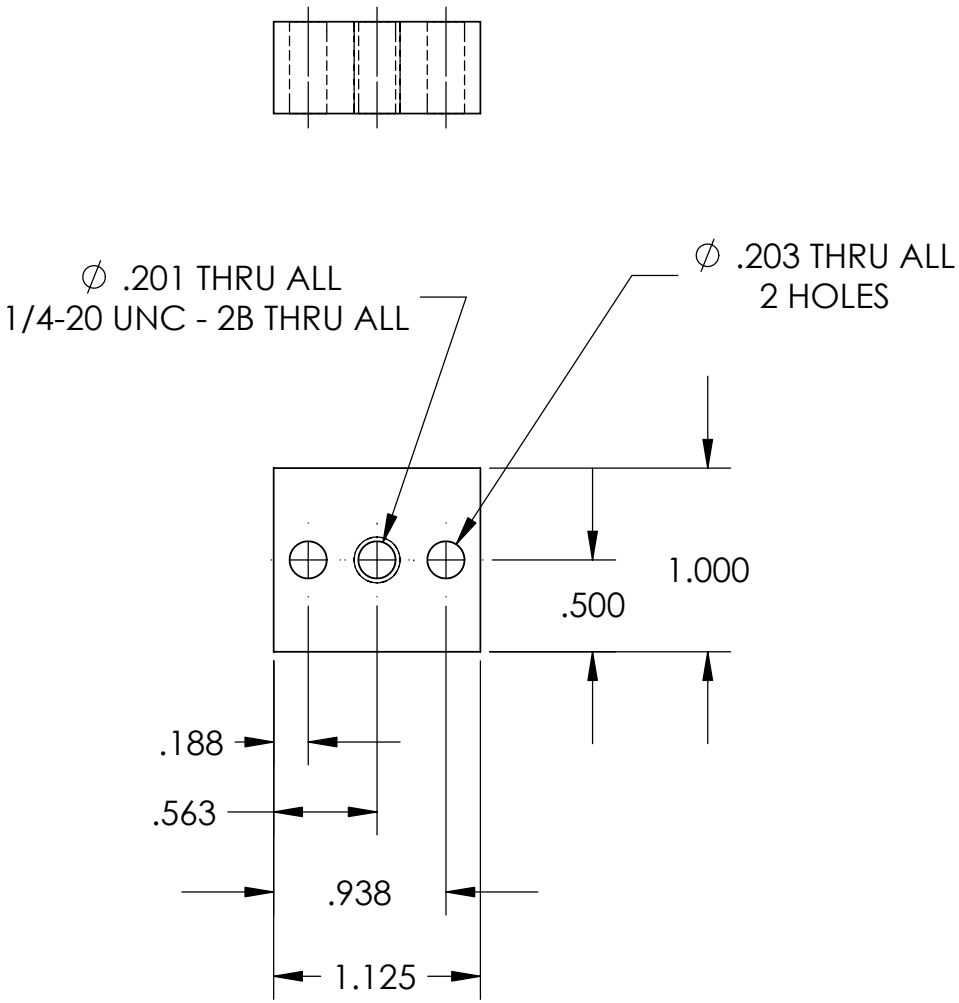


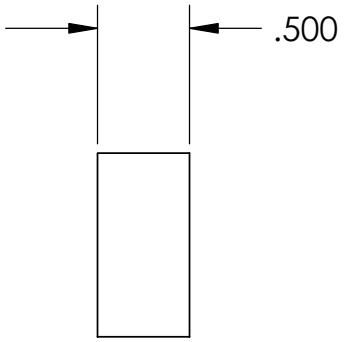




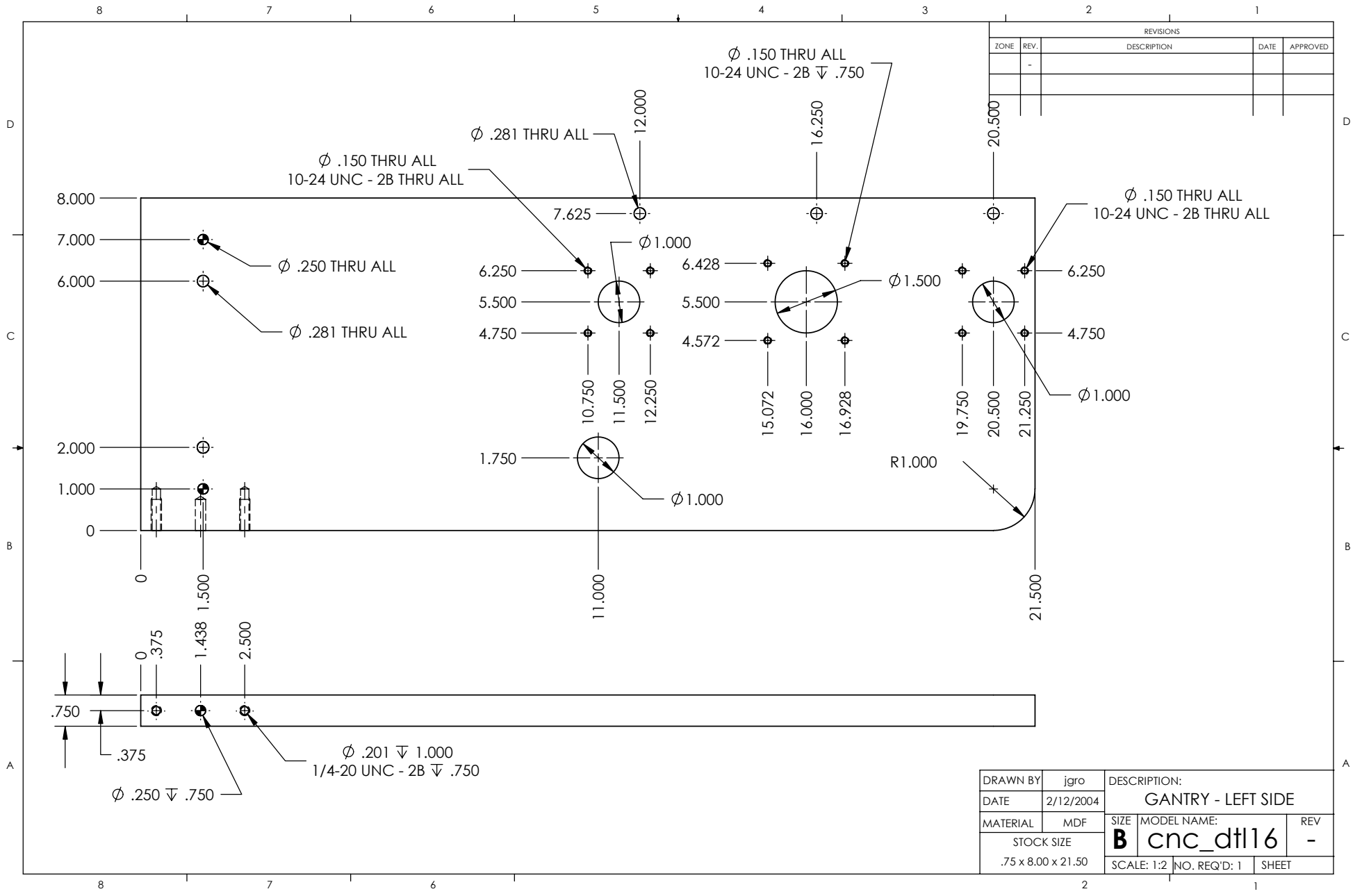
DRAWN BY	jgro	DESCRIPTION: ANTI-BACKLASH NUT		
DATE	2-11-04			
MATERIAL	DELRIN	SIZE	MODEL NAME:	REV
STOCK SIZE		A	cnc_dtl14	-
.50 x 1.50 x 2.00		SCALE: 1:1	NO. REQ'D: 3	SHEET

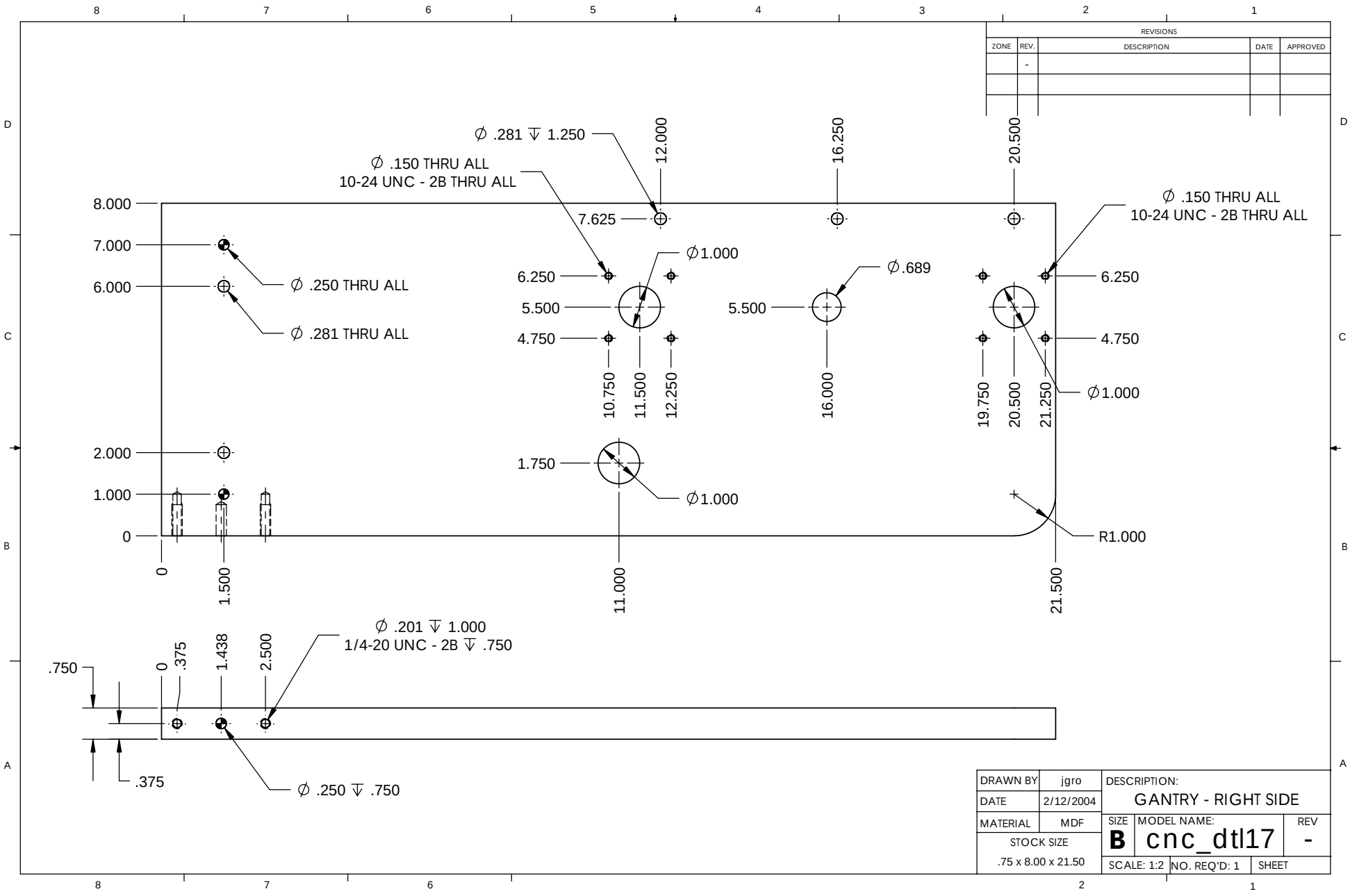
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

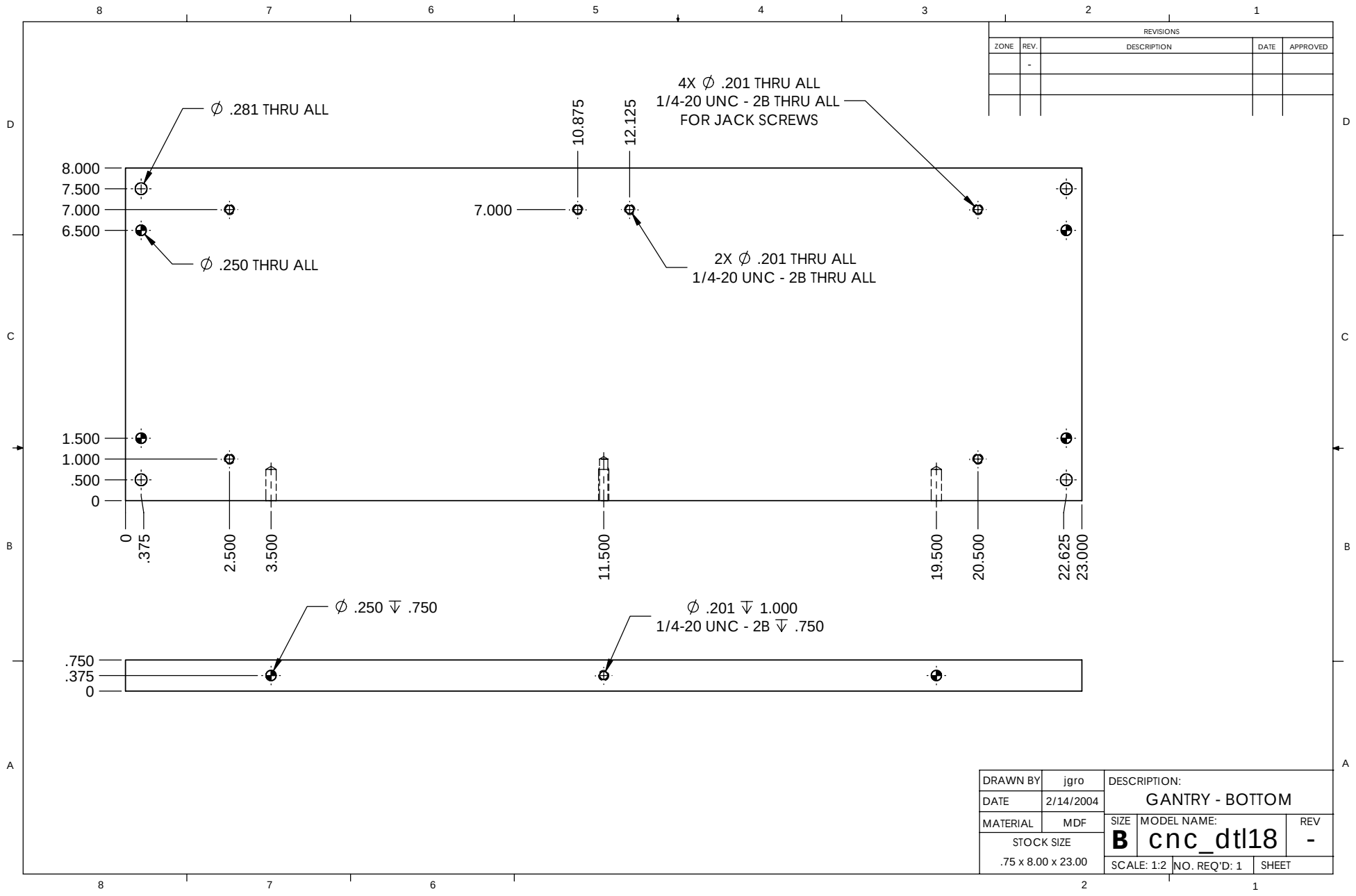




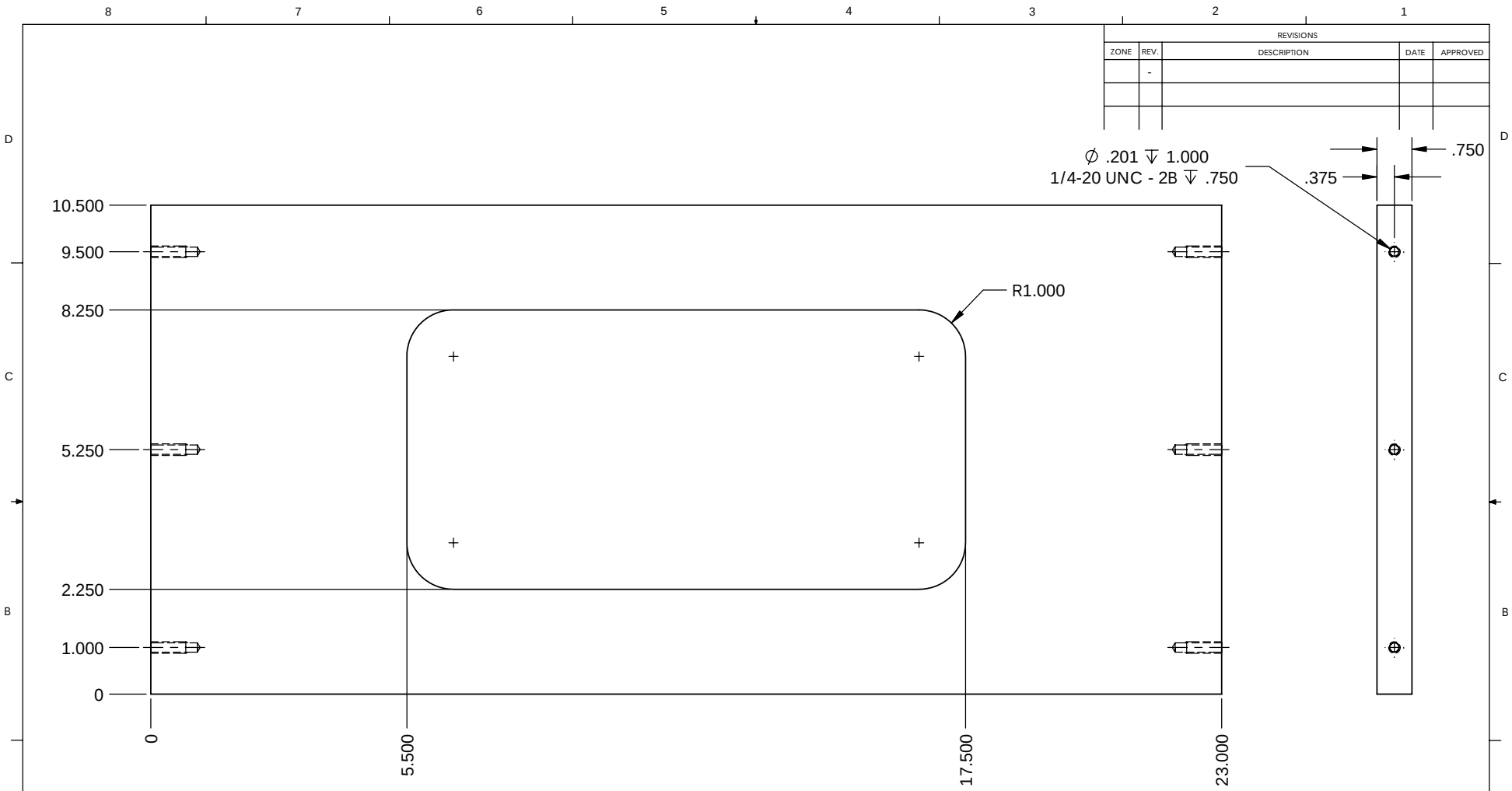
DRAWN BY	jgro	DESCRIPTION: NUT TENSIONER		
DATE	2-11-04			
MATERIAL	DELRIN	SIZE	MODEL NAME:	REV
STOCK SIZE		A	cnc_dtl15	-
.50 x 1.00 x 1.13		SCALE: 1:1	NO. REQ'D: 3	SHEET


REVISIONS
ZONE | REV. | DESCRIPTION | DATE | APPROVED
- | | | |
Ø .150 THRU ALL
10-24 UNC - 2B ↧ .750
Ø .281 THRU ALL
Ø .150 THRU ALL
10-24 UNC - 2B THRU ALL
Ø .150 THRU ALL
10-24 UNC - 2B THRU ALL
Ø .250 THRU ALL
Ø .281 THRU ALL
Ø1.000
Ø1.500
Ø1.000
Ø1.000
R1.000
Ø .201 ↧ 1.000
1/4-20 UNC - 2B ↧ .750
Ø .250 ↧ .750
8.000
7.000
6.000
2.000
1.000
0
7.625
12.000
16.250
20.500
6.250
5.500
4.750
6.428
5.500
4.572
6.250
4.750
1.750
10.750
11.500
12.250
15.072
16.000
16.928
19.750
20.500
21.250
11.000
21.500
0
1.500
0
.375
1.438
2.500
.750
.375
DRAWN BY jgro
DATE 2/12/2004
MATERIAL MDF
STOCK SIZE
.75 x 8.00 x 21.50
DESCRIPTION:
GANTRY - LEFT SIDE
SIZE B
MODEL NAME: cnc_dtl16
REV -
SCALE: 1:2
NO. REQ'D: 1
SHEET


REVISIONS
ZONE REV. DESCRIPTION DATE APPROVED
-
∅ .281 ↧ 1.250
∅ .150 THRU ALL
10-24 UNC - 2B THRU ALL
12.000
16.250
20.500
∅ .150 THRU ALL
10-24 UNC - 2B THRU ALL
8.000
7.000
6.000
∅ .250 THRU ALL
∅ .281 THRU ALL
7.625
6.250
5.500
4.750
∅1.000
∅.689
5.500
6.250
4.750
∅1.000
10.750
11.500
12.250
16.000
19.750
20.500
21.250
2.000
1.000
0
1.750
∅1.000
R1.000
0
1.500
11.000
21.500
∅ .201 ↧ 1.000
1/4-20 UNC - 2B ↧ .750
.750
0
.375
1.438
2.500
.375
∅ .250 ↧ .750
DRAWN BY jgro
DATE 2/12/2004
MATERIAL MDF
STOCK SIZE
.75 x 8.00 x 21.50
DESCRIPTION:
GANTRY - RIGHT SIDE
SIZE B
MODEL NAME: cnc_dtl17
REV -
SCALE: 1:2
NO. REQ'D: 1
SHEET

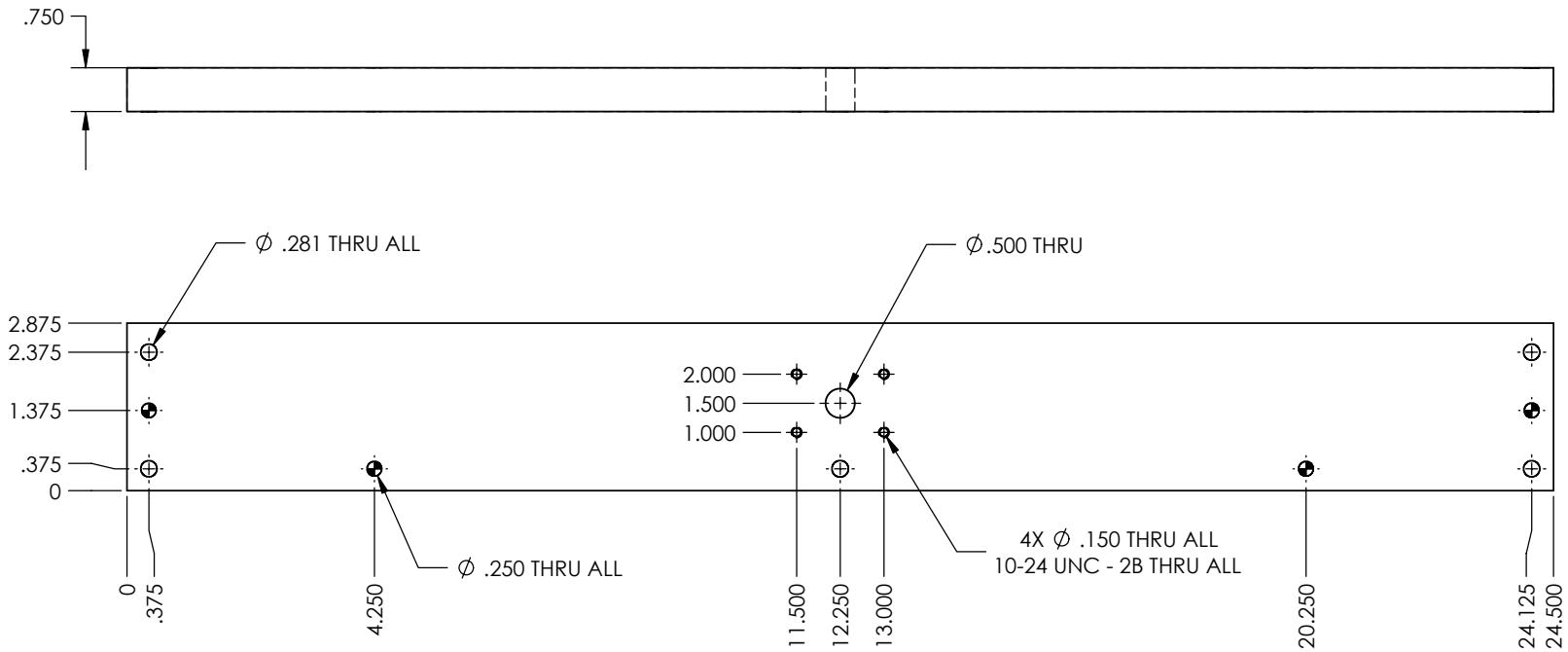

8 7 6 5 4 3 2 1
D C B A
REVISIONS
ZONE REV. DESCRIPTION DATE APPROVED
-
∅ .281 THRU ALL
4X ∅ .201 THRU ALL
1/4-20 UNC - 2B THRU ALL
FOR JACK SCREWS
10.875
12.125
8.000
7.500
7.000
6.500
7.000
∅ .250 THRU ALL
2X ∅ .201 THRU ALL
1/4-20 UNC - 2B THRU ALL
1.500
1.000
.500
0
0
.375
2.500
3.500
11.500
19.500
20.500
22.625
23.000
∅ .250 ↧ .750
∅ .201 ↧ 1.000
1/4-20 UNC - 2B ↧ .750
.750
.375
0
DRAWN BY jgro
DATE 2/14/2004
MATERIAL MDF
STOCK SIZE
.75 x 8.00 x 23.00
DESCRIPTION:
GANTRY - BOTTOM
SIZE B
MODEL NAME: cnc_dtl18
REV -
SCALE: 1:2
NO. REQ'D: 1
SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



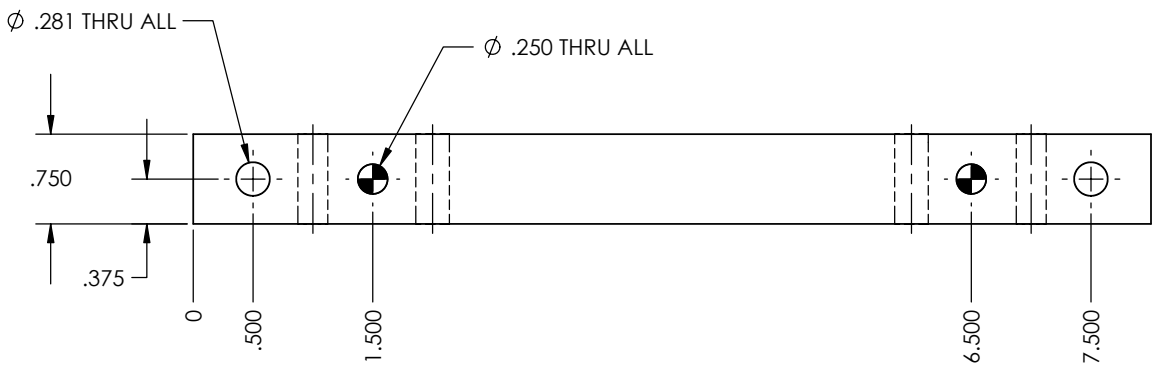
DRAWN BY	jgro	DESCRIPTION: GANTRY - REAR BRACE	
DATE	2/12/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl19 / REV: -
STOCK SIZE	.75 x 10.50 x 23.00	SCALE: 1:2	NO. REQ'D: 1 / SHEET

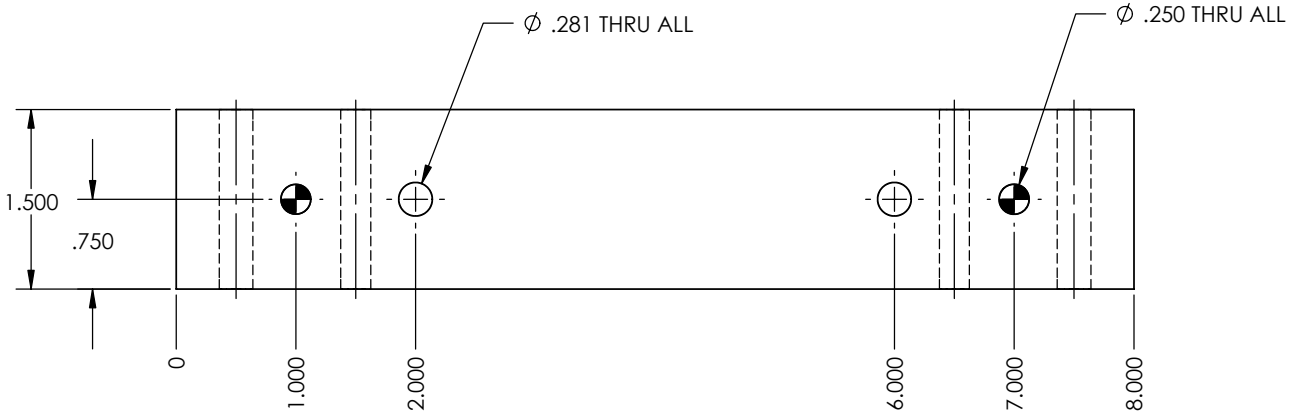
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

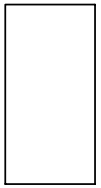


DRAWN BY	jgro	DESCRIPTION: GANTRY - FRONT		
DATE	2/14/2004			
MATERIAL	MDF	SIZE	MODEL NAME:	REV
STOCK SIZE		B	cnc_dtl20	-
.75 x 2.88 x 24.50		SCALE: 1:2	NO. REQ'D: 1	SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

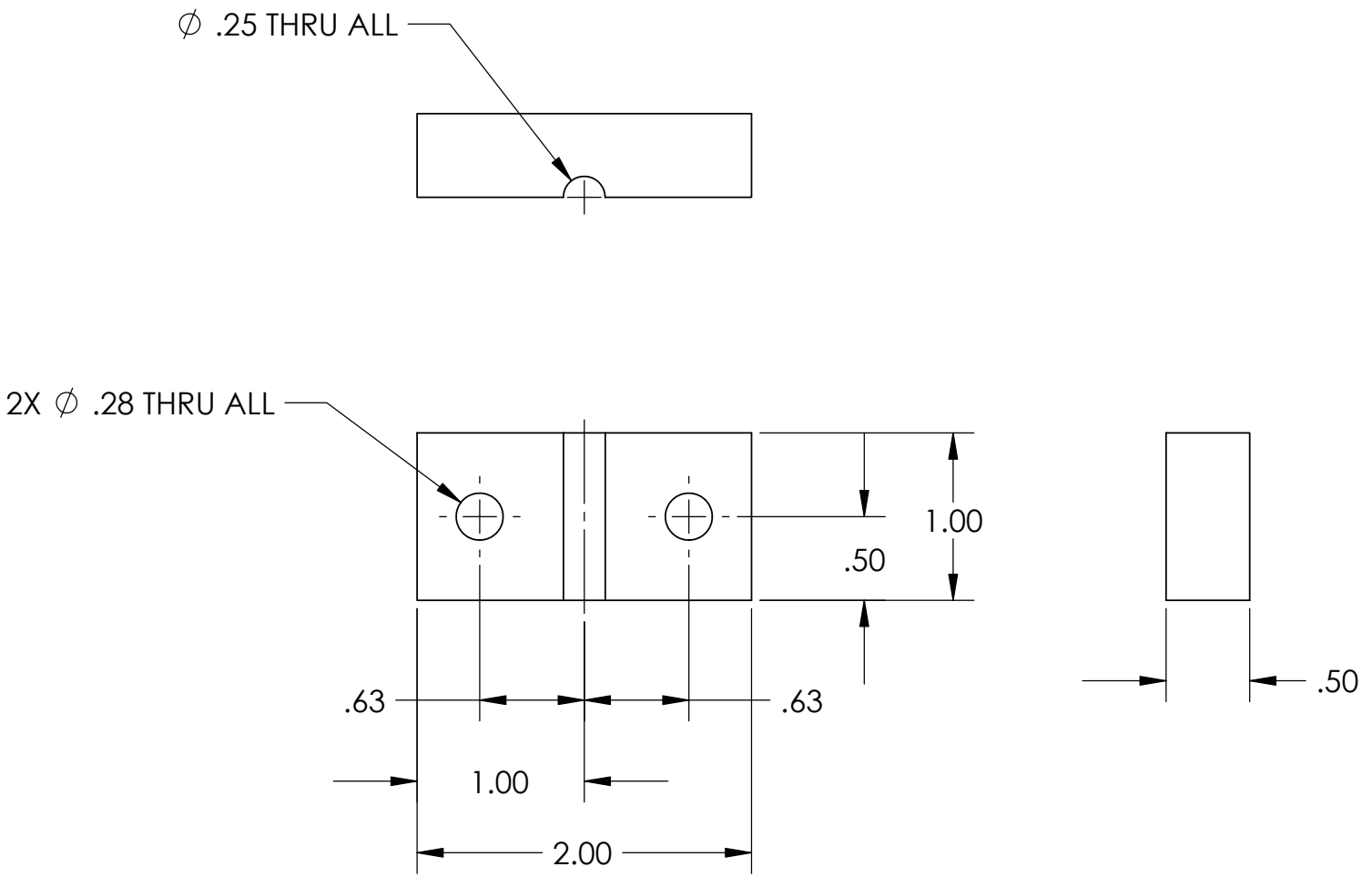






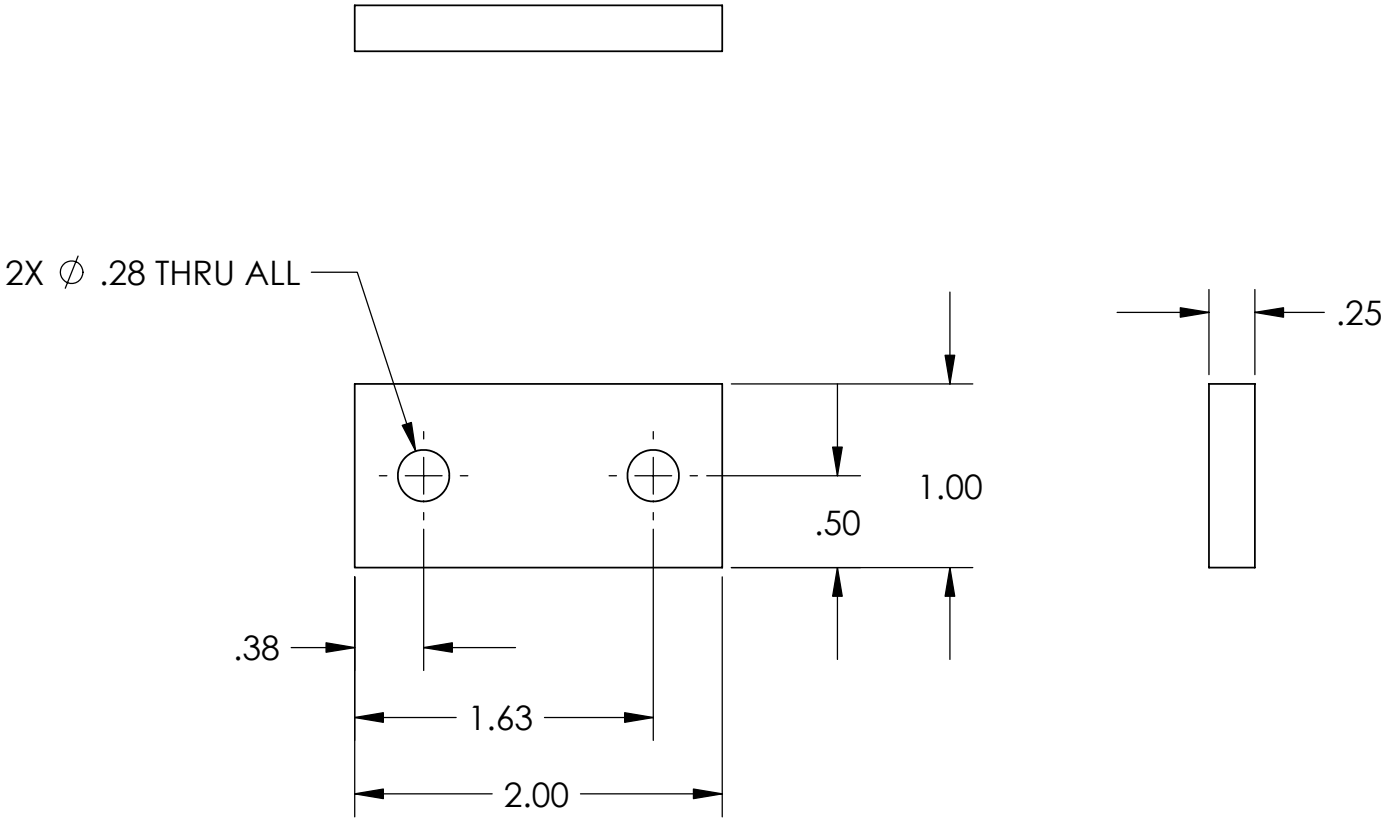
DRAWN BY	jgro	DESCRIPTION: GANTRY - CORNER BLOCK		
DATE	2/14/2004			
MATERIAL	MDF	SIZE	MODEL NAME:	REV
STOCK SIZE		B	cnc_dtl21	-
.75 x 1.50 x 8.00		SCALE: 1:1	NO. REQ'D: 2	SHEET

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED



DRAWN BY	jgro	DESCRIPTION: ANTI-WHIP BLOCK		
DATE	2-25-04			
MATERIAL	DELRIN	SIZE	MODEL NAME:	REV
STOCK SIZE .50 x 1.00 x 2.00		A	cnc_dtl23	-
		SCALE: 1:1	NO. REQ'D:	SHEET

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED



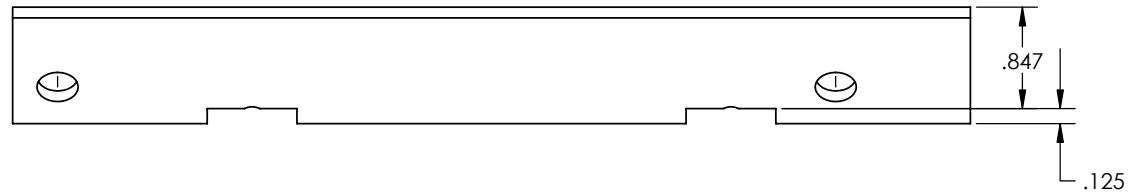
DRAWN BY	jgro
DATE	2-25-04
MATERIAL	MDF
STOCK SIZE	.25 x 1.00 x 2.00

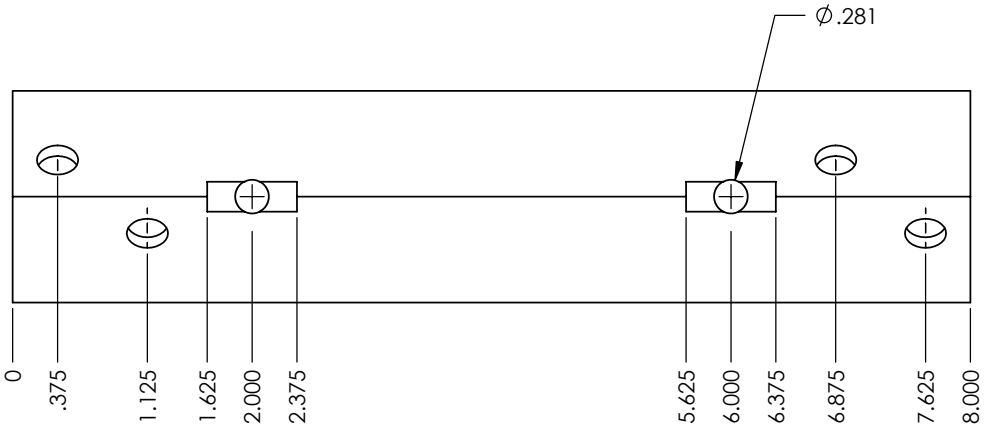
DESCRIPTION:
ANTI-WHIP BLOCK SPACER

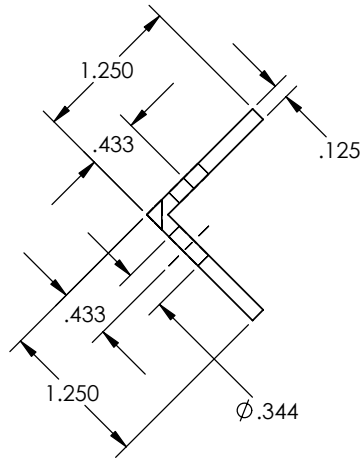
SIZE	MODEL NAME:	REV
A	cnc_dtl24	-

SCALE: 1:1 | NO. REQ'D: | SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

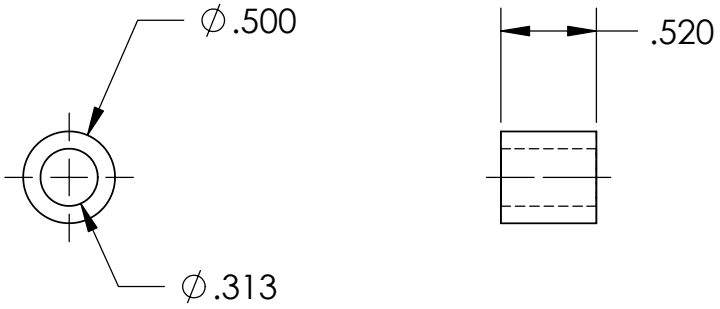






DRAWN BY	jgro	DESCRIPTION: Y LINEAR BEARING		
DATE	2/13/2004			
MATERIAL	ALUMINUM ANGLE	SIZE	MODEL NAME:	REV
STOCK SIZE		B	cnc_dtl25	-
1.25 x 1.25 x 8.00		SCALE: 1:1	NO. REQ'D: 2	SHEET

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED



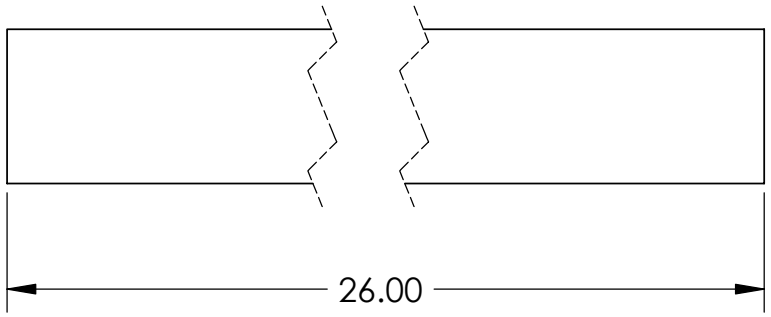
DRAWN BY	jgro
DATE	2-14-04
MATERIAL	ALUMINUM
STOCK SIZE	.50 x .52

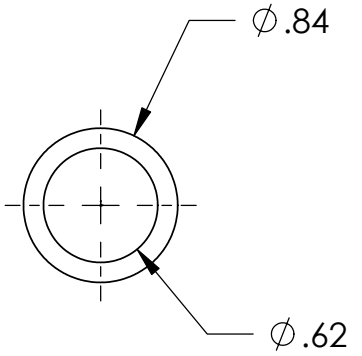
DESCRIPTION:
Y LINEAR GUIDE SPACER

SIZE	MODEL NAME:	REV
A	cnc_dtl26	-

SCALE: 1:1 | NO. REQ'D: 4 | SHEET

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED





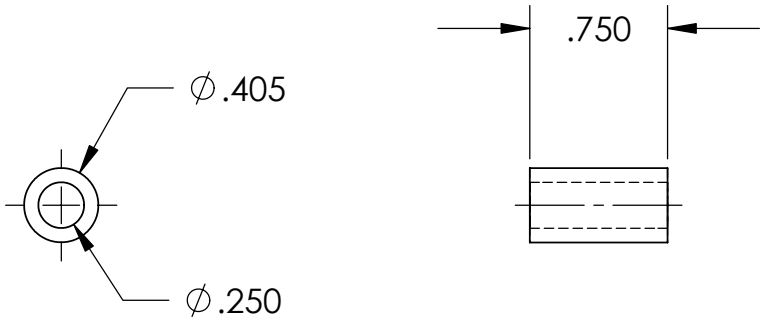
DRAWN BY	jgro
DATE	2/13/2004
MATERIAL	1/2" GAS PIPE
STOCK SIZE	.84 x 26.00

DESCRIPTION:
X GUIDE PIPE

SIZE	MODEL NAME:	REV
A	cnc_dtl28	-

SCALE: 1:1	NO. REQ'D: 2	SHEET

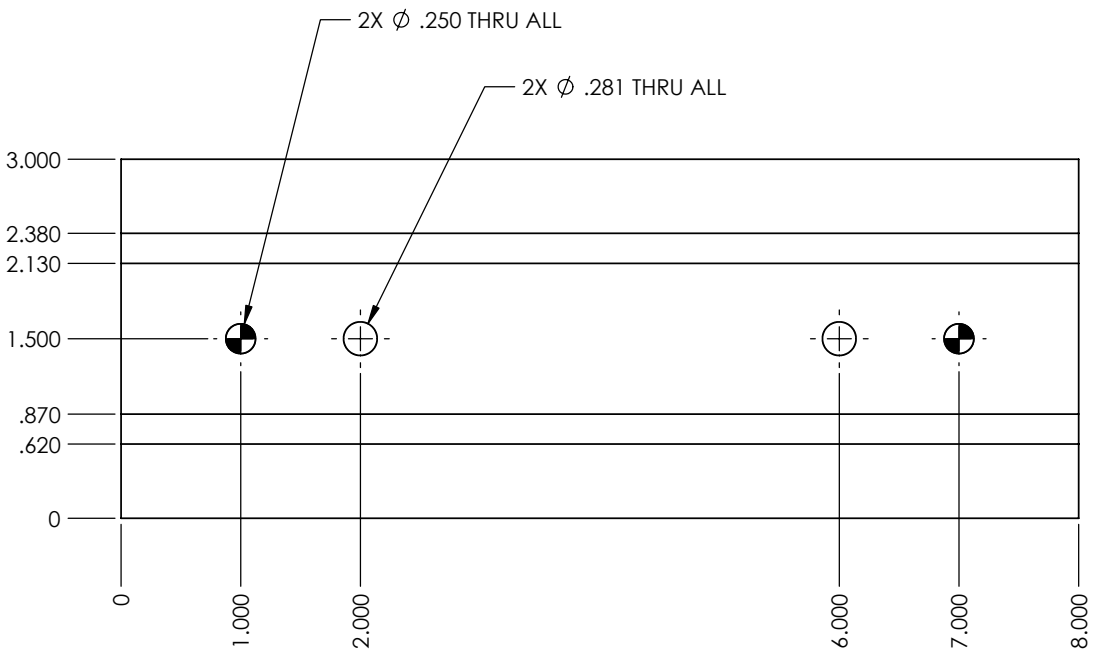
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

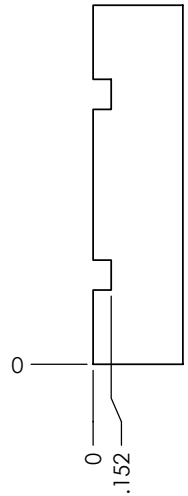


MAKE FROM 1/8 PIPE
DRILL OUT CENTER TO DIMESION SHOWN

DRAWN BY	jgro	DESCRIPTION: SPACER - SMALL		
DATE	2-13-04			
MATERIAL	1/8 PIPE	SIZE	MODEL NAME:	REV
STOCK SIZE .41 x .75		A	cnc_dtl29	-
		SCALE: 1:1	NO. REQ'D: 2	SHEET

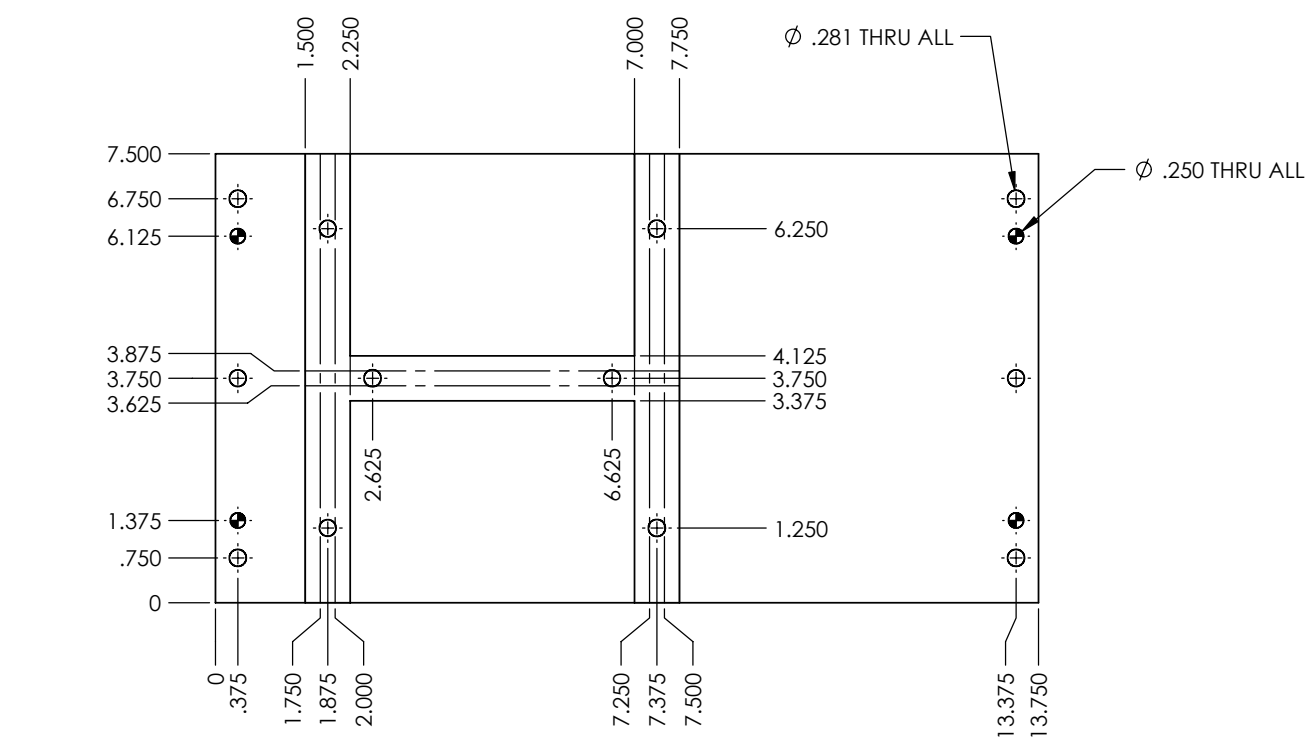
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

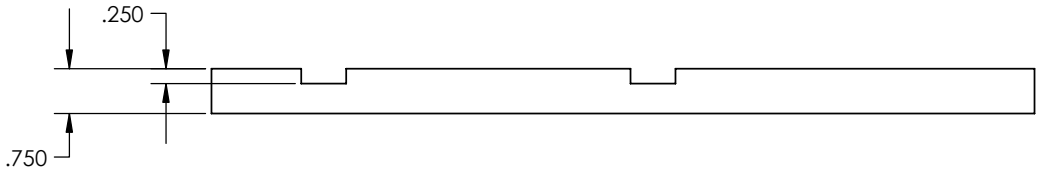




DRAWN BY	jgro	DESCRIPTION: Y BEARING BLOCK	
DATE	2/13/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl30
STOCK SIZE	.75 x 3.00 x 8.00	REV: -	
		SCALE: 1:1	NO. REQ'D: 2
		SHEET	

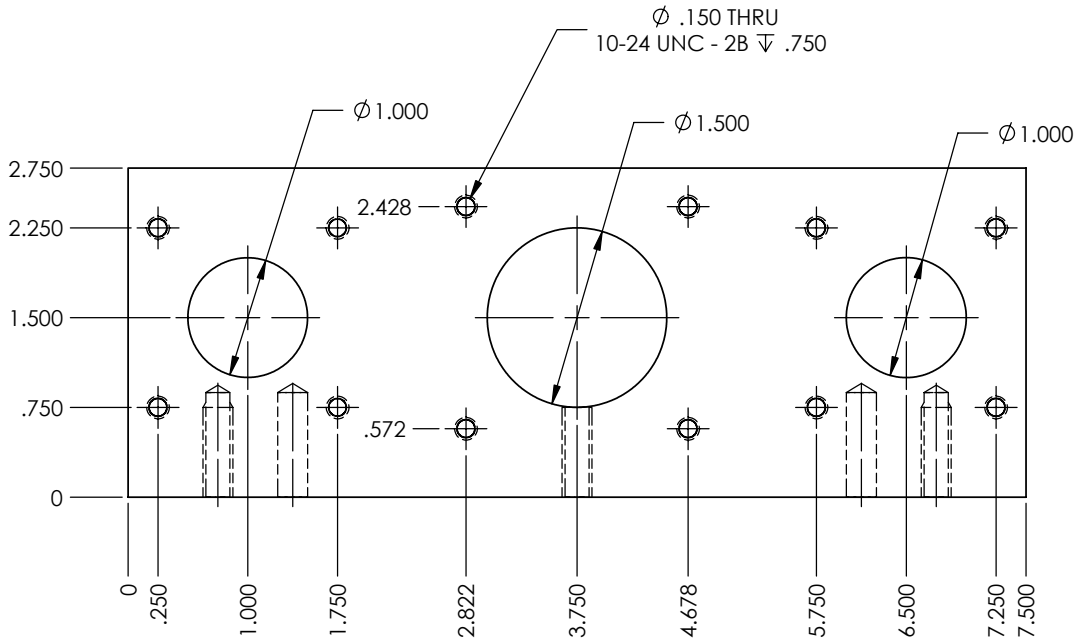
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

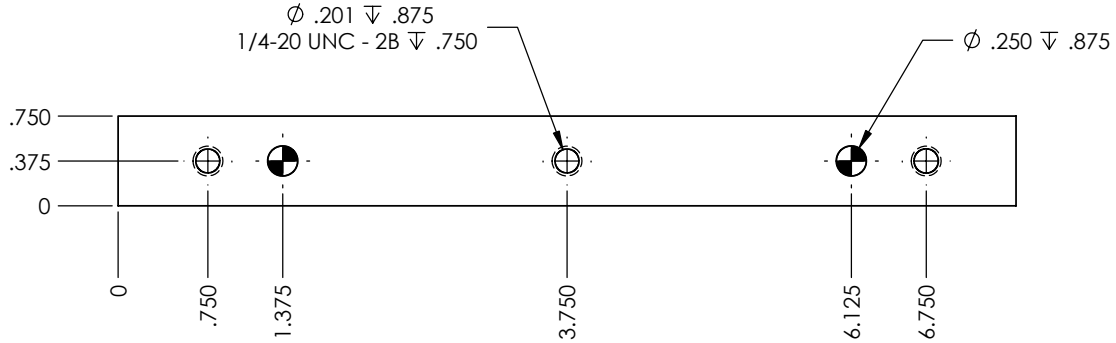




DRAWN BY	jgro	DESCRIPTION: X AXIS PLATFORM	
DATE	2/13/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl31
STOCK SIZE	.75 x 7.5 x 13.75	REV: -	
SCALE: 1:2	NO. REQ'D: 1	SHEET	

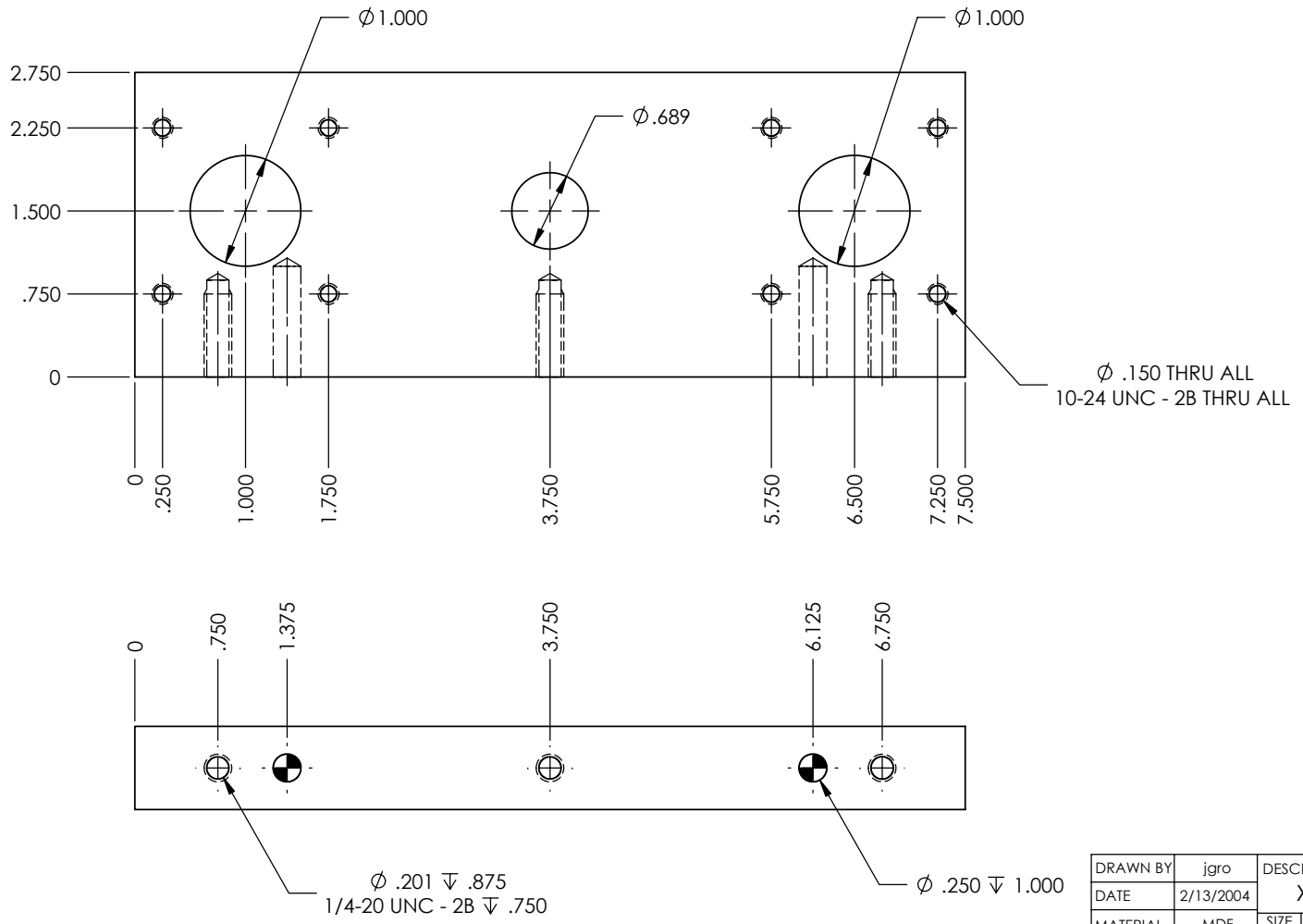
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			





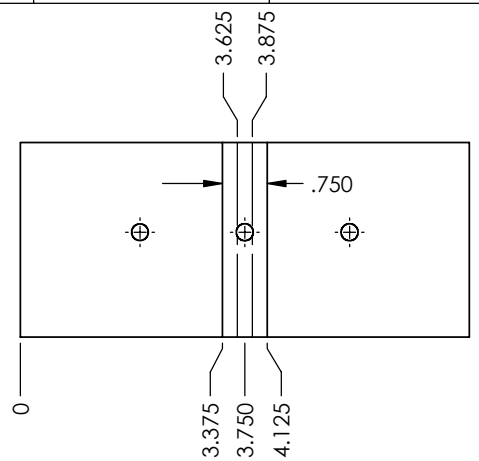
DRAWN BY	jgro	DESCRIPTION: X AXIS TOP PLATE	
DATE	2/13/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl32 — REV: -
STOCK SIZE	.75 x 2.75 x 7.50	SCALE: 1:1	NO. REQ'D: 1 — SHEET

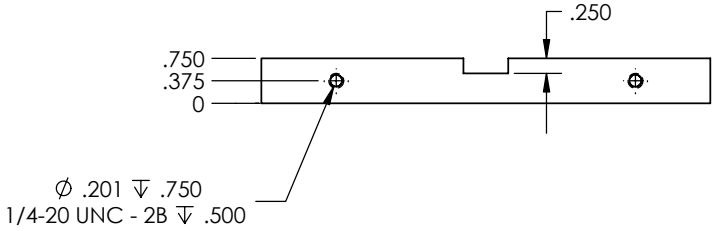
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

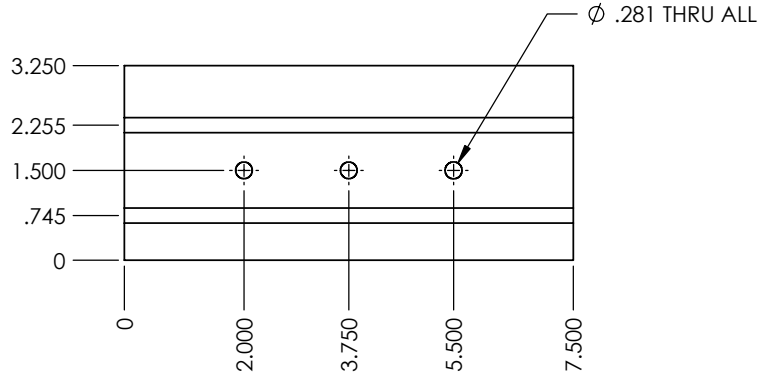


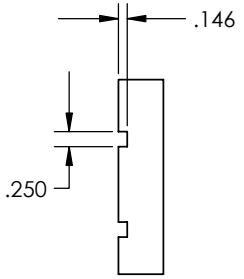
DRAWN BY	jgro	DESCRIPTION: X AXIS BOTTOM PLATE		
DATE	2/13/2004			
MATERIAL	MDF	SIZE	MODEL NAME:	REV
STOCK SIZE		B	cnc_dtl33	-
.75 x 2.75 x 7.50		SCALE: 1:1	NO. REQ'D: 1	SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			



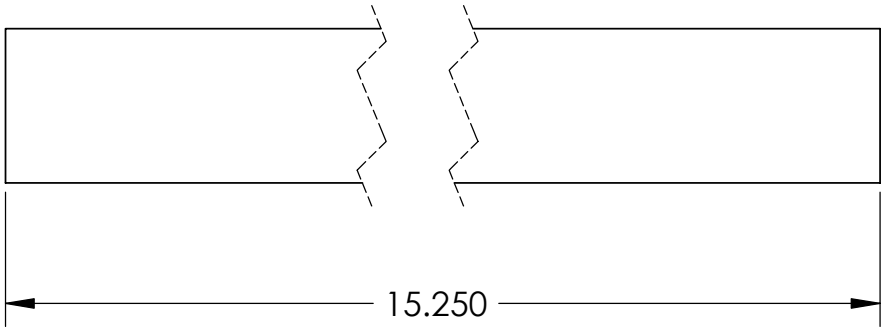


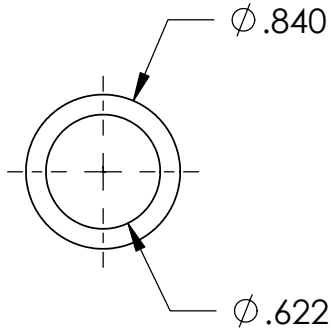




DRAWN BY	jgro	DESCRIPTION: X AXIS BEARING MOUNT	
DATE	2/13/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl34 — REV: -
STOCK SIZE		SCALE: 1:2	NO. REQ'D: 2 — SHEET
.75 x 3.00 x 7.50			

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED





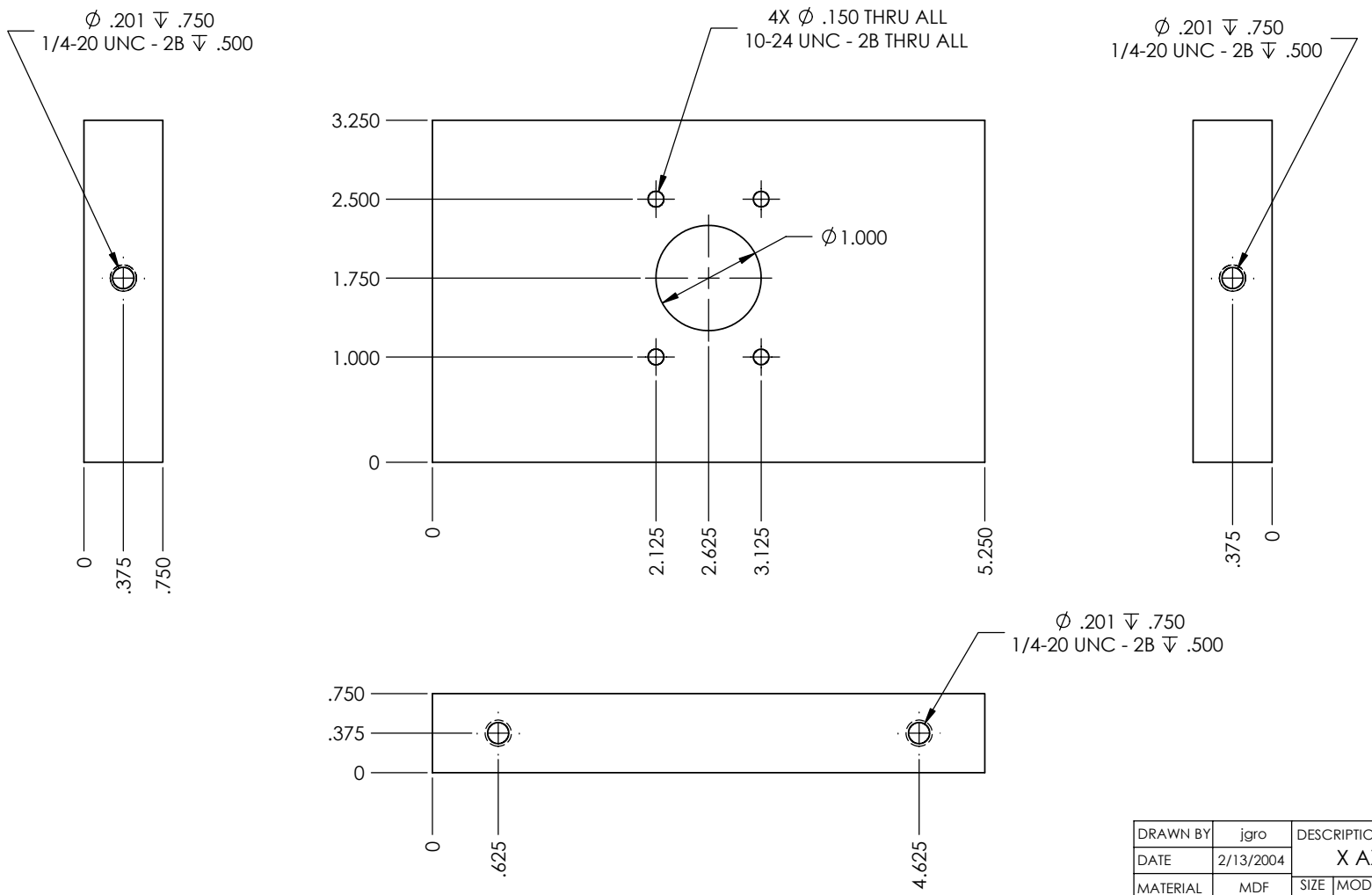
DRAWN BY	jgro
DATE	2/13/2004
MATERIAL	1/2 GAS PIPE
STOCK SIZE	.84 x 15.25

DESCRIPTION:
Z AXIS GUIDE PIPE

SIZE	MODEL NAME:	REV
A	cnc_dtl35	-

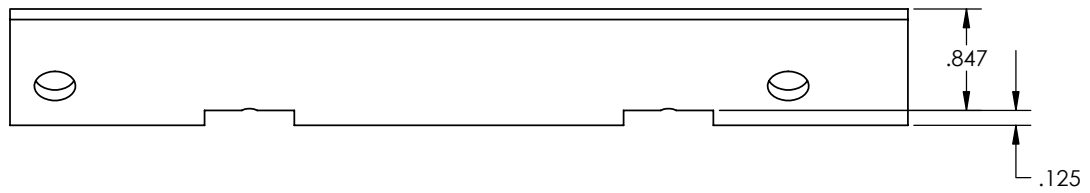
SCALE: 1:1	NO. REQ'D:	SHEET

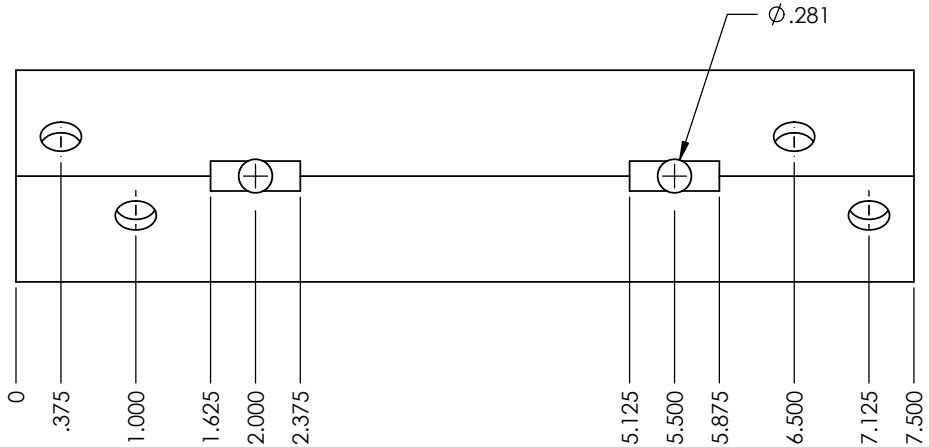
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

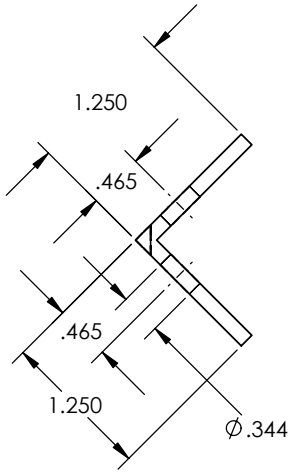


DRAWN BY	jgro	DESCRIPTION: X AXIS NUT SUPPORT	
DATE	2/13/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl37 — REV: -
STOCK SIZE	.75 x 3.25 x 5.25	SCALE: 1:1	NO. REQ'D: 1 — SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

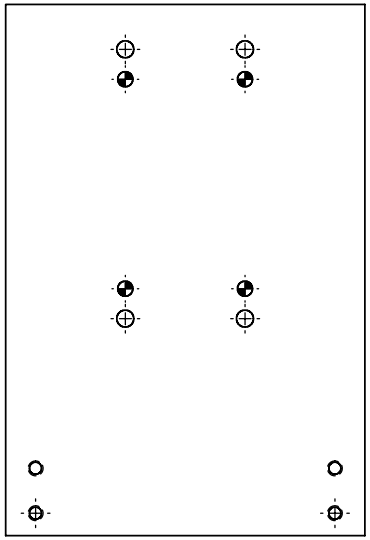


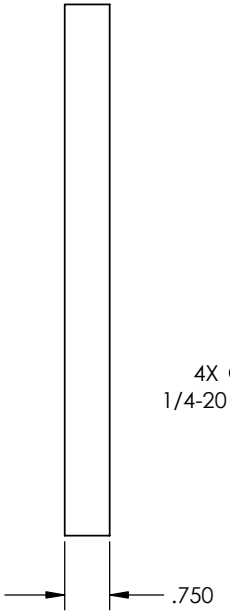


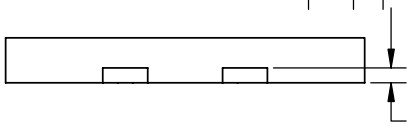


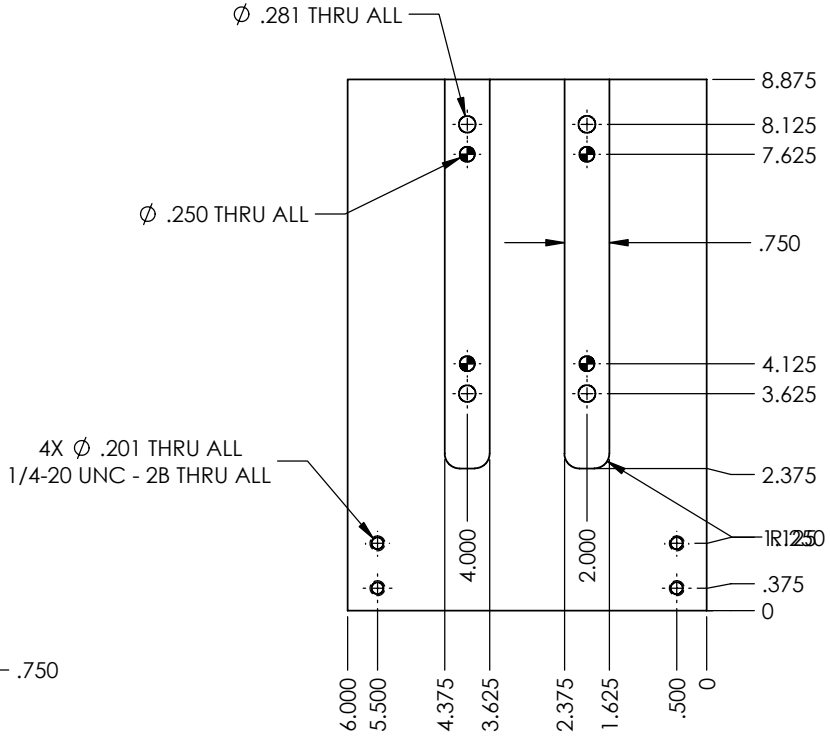
DRAWN BY	jgro	DESCRIPTION: X LINEAR BEARING		
DATE	2-13-04			
MATERIAL	ALUMINUM ANGLE	SIZE	MODEL NAME:	REV
STOCK SIZE	1.25 x 1.25 x 7.50	B	cnc_dtl38	-
		SCALE: 1:1	NO. REQ'D: 2	SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

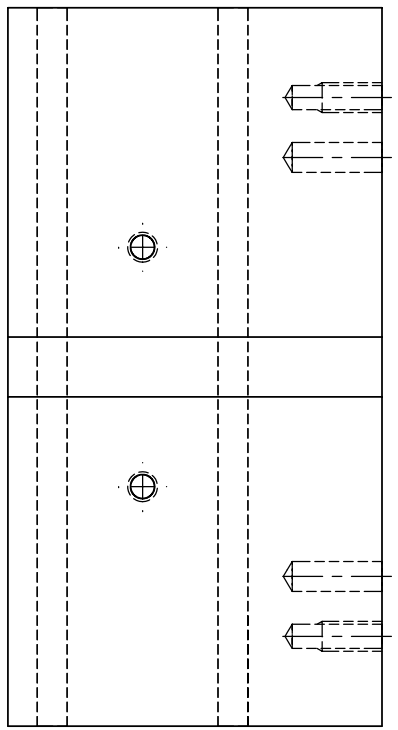


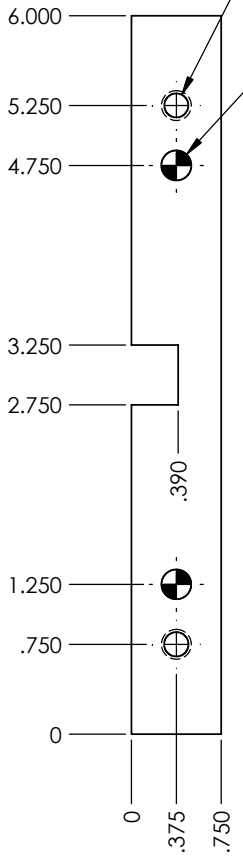


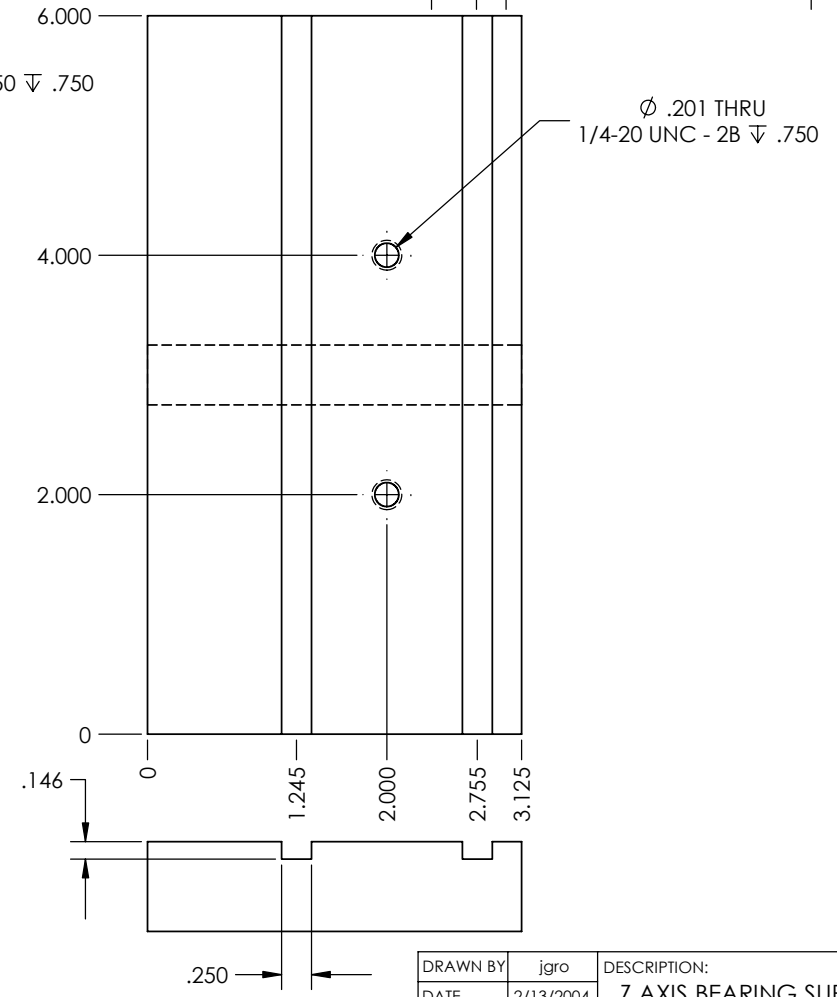




DRAWN BY	jgro	DESCRIPTION: Z AXIS PLATFORM	
DATE	2-13-04		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl39
STOCK SIZE	.75 x 6.00 x 8.88	REV: -	
		SCALE: 1:2	NO. REQ'D: 1 SHEET







REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			

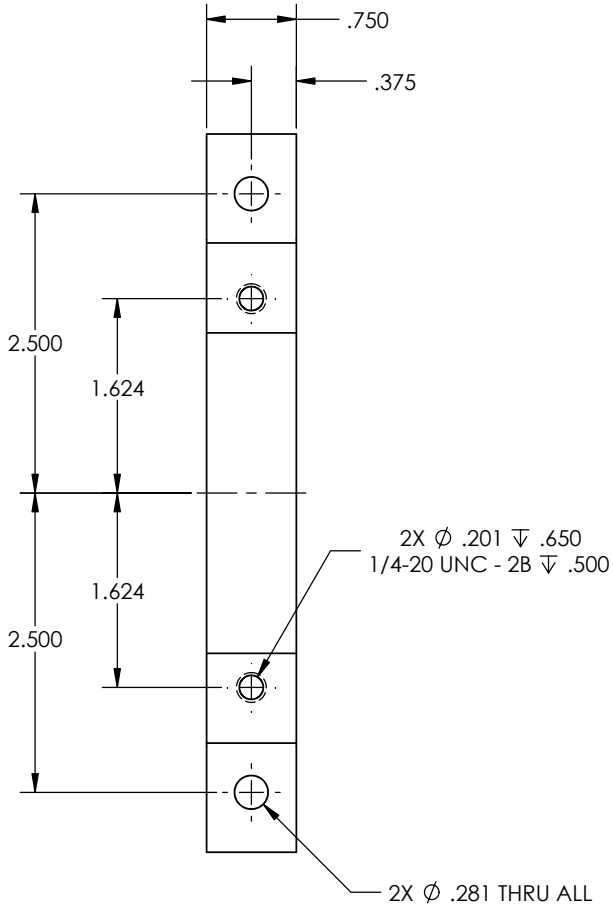
DRAWN BY	jgro
DATE	2/13/2004
MATERIAL	MDF
STOCK SIZE	.75 x 2.875 x 6.00

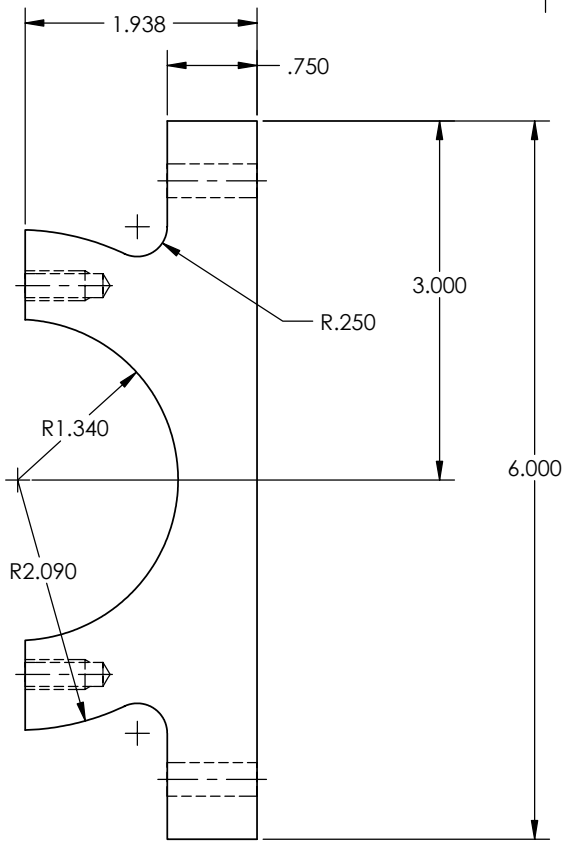
DESCRIPTION: Z AXIS BEARING SUPPORT

SIZE	MODEL NAME:	REV
B	cnc_dtl40	-

SCALE: 1:1 | NO. REQ'D: 2 | SHEET

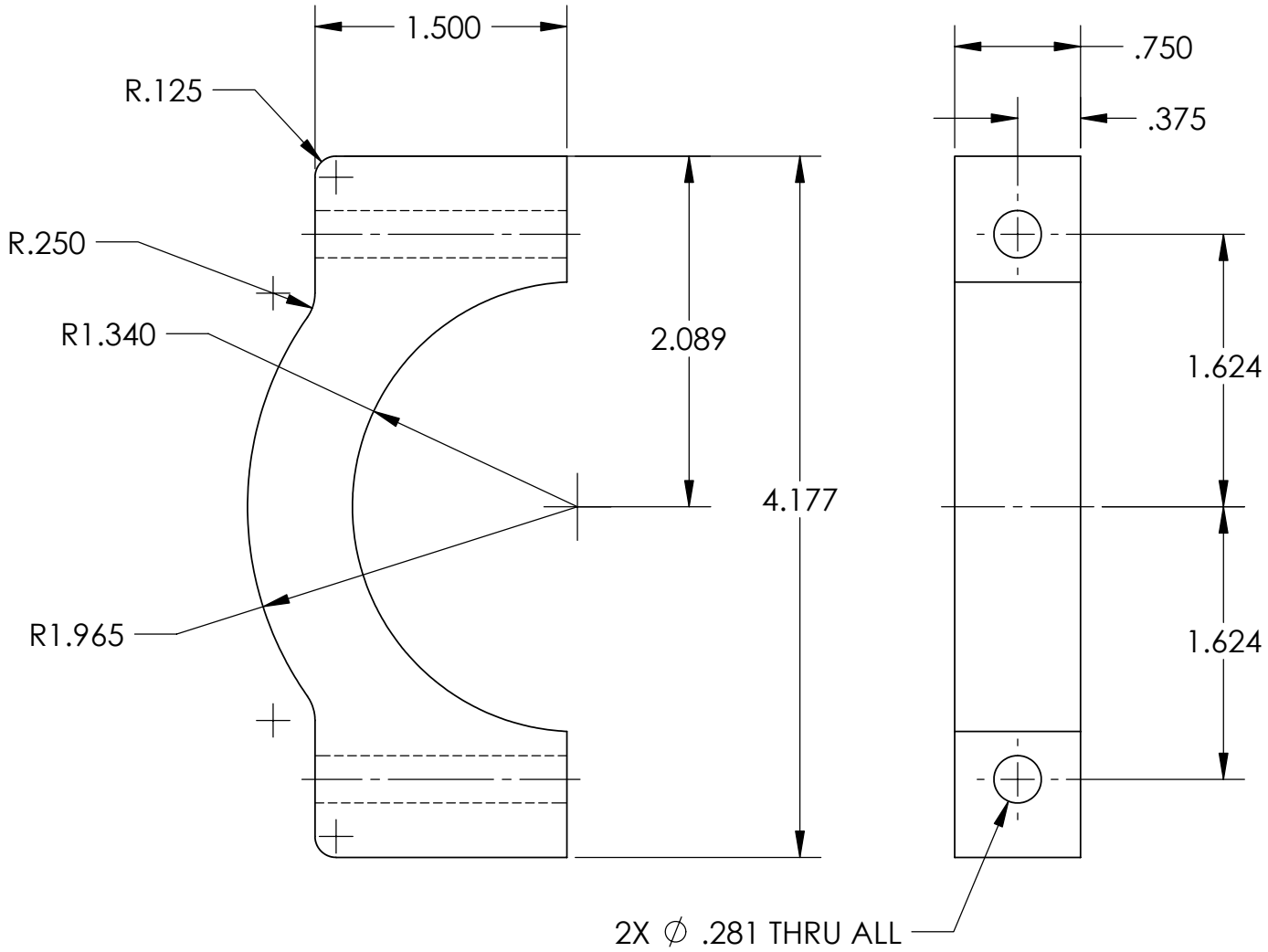
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			





DRAWN BY	jgro	DESCRIPTION: ROUTER CLAMP BASE	
DATE	2/13/2004		
MATERIAL	MDF	SIZE: B	MODEL NAME: cnc_dtl41
STOCK SIZE	.75 x 2.00 x 6.00	REV: -	
		SCALE: 1:1	NO. REQ'D: 2
		SHEET	

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED



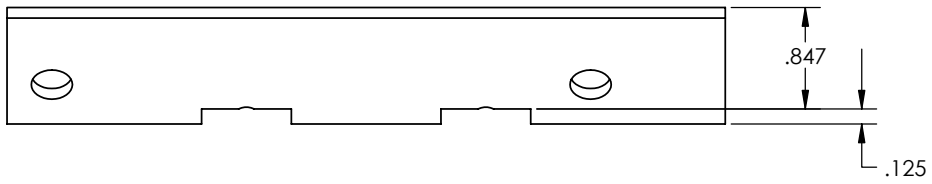
DRAWN BY	jgro
DATE	2/13/2004
MATERIAL	MDF
STOCK SIZE	.75 x 1.97 x 4.18

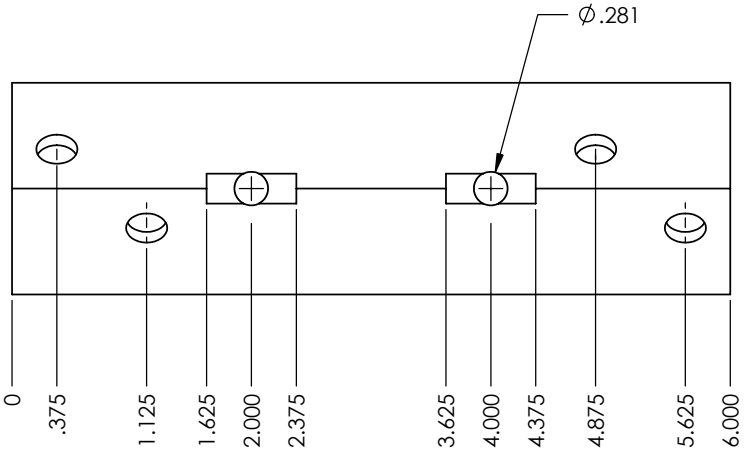
DESCRIPTION:
ROUTER CLAMP

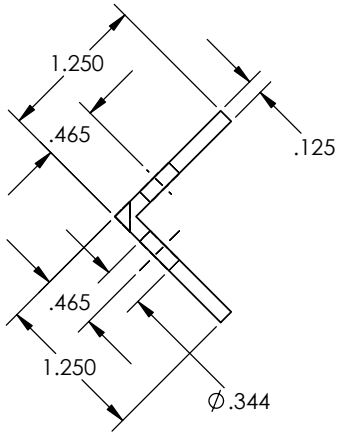
SIZE	MODEL NAME:	REV
A	cnc_dtl42	-

SCALE: 1:1 | NO. REQ'D: 2 | SHEET

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-			







DRAWN BY	jgro	DESCRIPTION: Z AXIS LINEAR BEARING		
DATE	2-13-04			
MATERIAL	ALUMINUM ANGLE	SIZE	MODEL NAME:	REV
STOCK SIZE	1.25 x 1.25 x 6.00	B	cnc_dtl43	-
		SCALE: 1:1	NO. REQ'D: 2	SHEET

ITEM NO.	QTY.	PART NO.	VENDOR NO	WEIGHT	STOCK SIZE	MATERIAL	DESCRIPTION
1	1	cnc_dtl01			1.5 x 8.25 x 16.25	MDF	SUPPORT - MOTOR SIDE
2	1	cnc_dtl02			1.50 x 8.25 x 16.25	MDF	SUPPORT - BEARING SIDE
3	2	cnc_dtl03			1.315 x 45.00	1" GAS PIPE	Y GUIDE PIPE
4	1	cnc_dtl04			.75 x 22.00 x 43.50	MDF	CUTTING BED
5	1	cnc_dtl05			SEE DRAWING	MDF	BASE SUPPORT STRUCTURE
6	1	cnc_dtl06			SEE DRAWING	MDF	BED SUPPORT
7	4	cnc_dtl07			2.50 x 2.50 x .75	MDF	ADJUSTMENT BLOCK - LARGE
8	3	cnc_dtl08	www.xylotex.com				STEPPER MOTOR
9	3	cnc_dtl09	www.meci.com				COUPLER
10	1	cnc_dtl10			1/4-20 x 43.50	1/4-20 ROD	LEAD SCREW - Y AXIS
11	5	cnc_dtl11	www.mcmaster.com				FLANGED BEARING
12	4	cnc_dtl12	www.rockler.com		.50 x .75 x 36.00	ALUMINUM	HOLD DOWN CHANNEL
13	8	cnc_dtl13			.75 x 2.00 x 2.00	MDF	ADJUSTMENT BLOCK - SMALL
14	3	cnc_dtl14	www.mcmaster.com		.50 x 1.50 x 2.00	DELRIN	ANTI-BACKLASH NUT
15	3	cnc_dtl15	www.mcmaster.com		.50 x 1.00 x 1.13	DELRIN	NUT TENSIONER
16	1	cnc_dtl16			.75 x 8.00 x 21.50	MDF	GANTRY - LEFT SIDE
17	1	cnc_dtl17			.75 x 8.00 x 21.50	MDF	GANTRY - RIGHT SIDE
18	1	cnc_dtl18			.75 x 8.00 x 23.00	MDF	GANTRY - BOTTOM
19	1	cnc_dtl19			.75 x 10.50 x 23.00	MDF	GANTRY - REAR BRACE
20	1	cnc_dtl20			.75 x 2.88 x 24.50	MDF	GANTRY - FRONT
21	2	cnc_dtl21			.75 x 1.50 x 8.00	MDF	GANTRY - CORNER BLOCK
22	1	cnc_dtl22			.25 x 24.50	1/4-20 THREADED ROD	X AXIS LEAD SCREW
23	1	cnc_dtl23	www.mcmaster.com		.50 x 1.00 x 2.00	DELRIN	ANTI-WHIP BLOCK
24	1	cnc_dtl24			.25 x 1.00 x 2.00	MDF	ANTI-WHIP BLOCK SPACER
25	2	cnc_dtl25			1.25 x 1.25 x 8.00	ALUMINUM ANGLE	Y LINEAR BEARING
26	8	cnc_dtl26			.50 x .52	ALUMINUM	Y LINEAR GUIDE SPACER
27	24	cnc_dtl27			8 x 22		SKATE BEARING
28	2	cnc_dtl28			.84 x 26.00	1/2" GAS PIPE	X GUIDE PIPE
29	1	cnc_dtl29			.41 x .75	1/8 PIPE	SPACER - SMALL
30	2	cnc_dtl30			.75 x 3.00 x 8.00	MDF	Y BEARING BLOCK
31	1	cnc_dtl31			.75 x 7.5 x 13.75	MDF	X AXIS PLATFORM
32	1	cnc_dtl32			.75 x 2.75 x 7.50	MDF	X AXIS TOP PLATE
33	1	cnc_dtl33			.75 x 2.75 x 7.50	MDF	X AXIS BOTTOM PLATE
34	2	cnc_dtl34			.75 x 3.00 x 7.50	MDF	X AXIS BEARING MOUNT
35	2	cnc_dtl35			.84 x 15.25	1/2 GAS PIPE	Z AXIS GUIDE PIPE
36	1	cnc_dtl36			.25 x 13.50	1/4-20 THEADED ROD	Z AXIS LEAD SCREW
37	1	cnc_dtl37			.75 x 3.25 x 5.25	MDF	X AXIS NUT SUPPORT
38	2	cnc_dtl38			1.25 x 1.25 x 7.50	ALUMINUM ANGLE	X LINEAR BEARING
39	1	cnc_dtl39			.75 x 6.00 x 8.88	MDF	Z AXIS PLATFORM
40	2	cnc_dtl40			.75 x 2.875 x 6.00	MDF	Z AXIS BEARING SUPPORT
41	2	cnc_dtl41			.75 x 2.00 x 6.00	MDF	ROUTER CLAMP BASE
42	2	cnc_dtl42			.75 x 1.97 x 4.18	MDF	ROUTER CLAMP
44	2	cnc_dtl43			1.25 x 1.25 x 6.00	ALUMINUM ANGLE	Z AXIS LINEAR BEARING
45	20	dowel_pin					.250 DIA X 1.50 LG.
46	71	FLAT WASHER 1/4					FLAT WASHER 1/4
47	60	HEX HEAD BOLT 1/4-20 X 1					HEX HEAD BOLT 1/4-20 X 1
48	27	HEX HEAD BOLT 1/4-20 X 1 1/2					HEX HEAD BOLT 1/4-20 X 1 1/2
49	8	HEX HEAD BOLT 1/4-20 X 2					HEX HEAD BOLT 1/4-20 X 2
50	4	HEX HEAD BOLT 1/4-20 X 3					HEX HEAD BOLT 1/4-20 X 3
51	4	HEX HEAD BOLT 1/4-20 X 3 1/2					HEX HEAD BOLT 1/4-20 X 3 1/2
52	24	HEX HEAD BOLT 5/16-18 X 1 1/4					HEX HEAD BOLT 5/16-18 X 1 1/2
53	69	HEX NUT 1/4-20					HEX NUT 1/4
54	40	HEX NUT 5/16-18					HEX NUT 5/16
55	6	LOCK WASHER 1/4					LOCK WASHER 1/4
56	7	MACHINE SCREW #10 X 1					MACHINE SCREW #10 X 1
57	54	MACHINE SCREW #10 X 1 1/2					MACHINE SCREW #10 X 1 1/2
58	1	MACHINE SCREW #10 X 1 1/4					MACHINE SCREW #10 X 1
59	4	MACHINE SCREW #10 X 1/2					MACHINE SCREW #10 X 1/2
60	8	MACHINE SCREW #10 X 3/4					MACHINE SCREW #10 X 1
61	1	wood_screw					WOOD SCREW

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED

DRAWN BY	jgro	DESCRIPTION:	
DATE	2-13-04	CNC ROUTER - STOCK LIST	
MATERIAL		SIZE: C	MODEL NAME: cnc_assy01
STOCK SIZE		SCALE: 1:1	NO. REQ'D: / SHEET