Notes:

1. Novajo Loom design and plans are as documented by Mary McKibben a Navajo weaving teacher.
2. Total frame lumber required is two, 8 foot long "2x4" lumber (pronounced two by fours) which actually measures 1 1/2 inch by 3 1/2 inch.
3. Wood options and requirements.
   Soft woods such as pine are the least expensive and easy to work but are the least durable. Hard woods are more expensive, can be hard to work without power tools, and are more durable; with cherry and maple being the hardest and most durable. Poplar and mahogany (relatively soft hardwoods) are an excellent compromise between price, workability, and durablility.
   Suggested length is 8 feet although, if you go with pine, "stud length" lumber at 92 5/8" is sometimes less expensive than an 8 foot board.
   Lumber should be "Kiln Dried" and stored out of the weather. "Green" lumber and wet lumber have an excessive moisture content and will twist and crack when drying; causing your loom frame to warp out of square and split where the wood screws have been installed.
   Lumber without knots is perfered; a few small knots are acceptable if not located where the screws will be.
4. Item 8 can be made of either 1 inch black pipe, hardwood dowels, or a 1 inch'ish straight strong stick from your back yard.
5. Item 10 can be substituted with 5mm (1/8") nylon cord or any other simular "rope."
6. Item 11 can be substituted with baling wire, rope, plastic zip ties, an old extension cord, or anything eles that is strong enough and will hold a "knot".
7. Item 12 can be substituted with rope, plastic zip ties, an old extension cord, or anything eles that is strong enough, will hold a "knot", and will fit between the warp you are using.

Item No.	Qty.	Description
1	1	Upper Cross Piece, P/N 1001
2	2	Uprights, P/N 1002
3	1	Lower Cross Piece, P/N 1003
4	2	Legs, P/N 1004
5	6	Wood Screw, #12 x 5"
6	6	Wood Screw, #12 x 3"
7	8	Wood Screw, #12 x 1"
8	5	Pipe, Black, 1" Diameter x 36 inches
9	4	Bracket, Pipe, 1"
10	20 ft.	Cotton Cloths Line
11	3	Radiator Hose Clamp, 3"
12	6 ft	Baling Wire

1004	2000
1003	2000
1002	2000
1001	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified Dimensions are in Inches

Tolerances:
Fractions +/- 1/8"
Angles +/- 1°
3 Place Decimals 0.032
2 Place Decimals 0.063

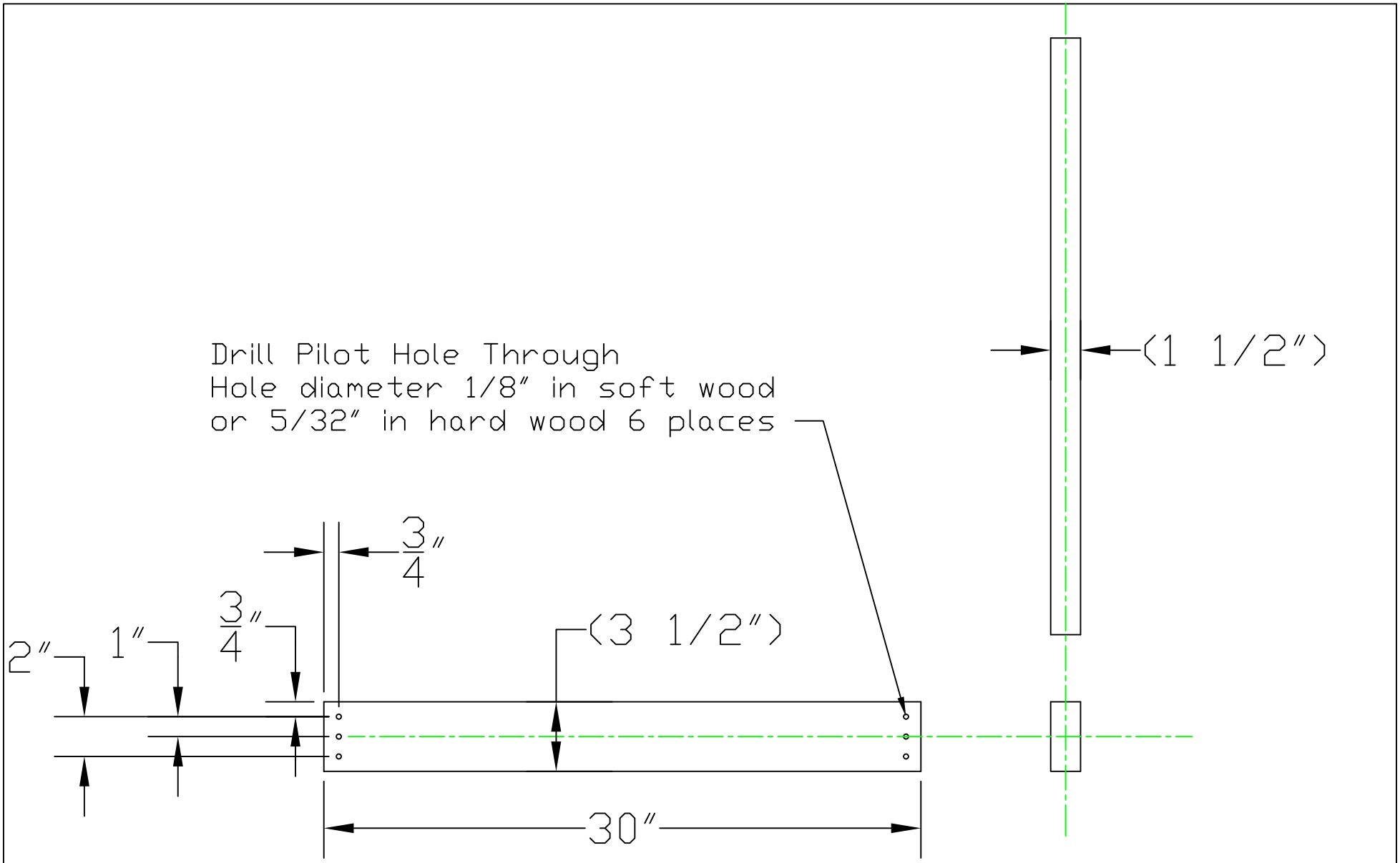
Dwg. By: T. Jacobs

Date: 08 MAY 2004

Novajo Loom Plans

SIZE | DWG NO. 1000 | REV A

SCALE None | SHEET 1 of 1



1002	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified
Dimensions are in Inches

Tolerances:

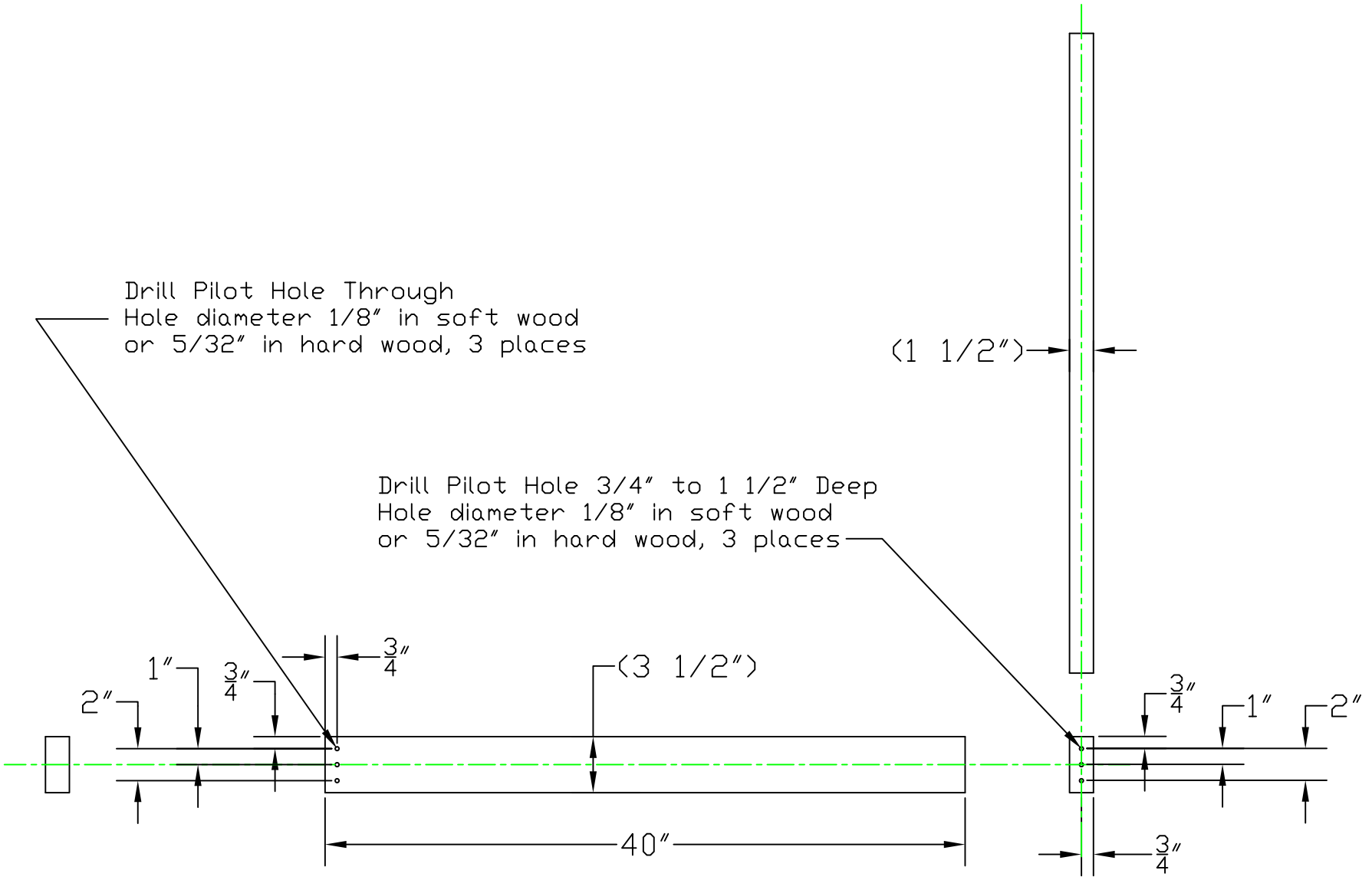
Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

Dwg. By: T. Jacobs

Date: 08 MAY 2004

Cross Piece, Upper, Loom, Navajo

SIZE		DWG NO.	1001	REV A
SCALE	1:1		SHEET 1 of 1	



1003	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified
Dimensions are in Inches

Tolerances:

Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

Dwg. By: T. Jacobs

Date: 08 MAY 2004

Upright, Loom, Navajo

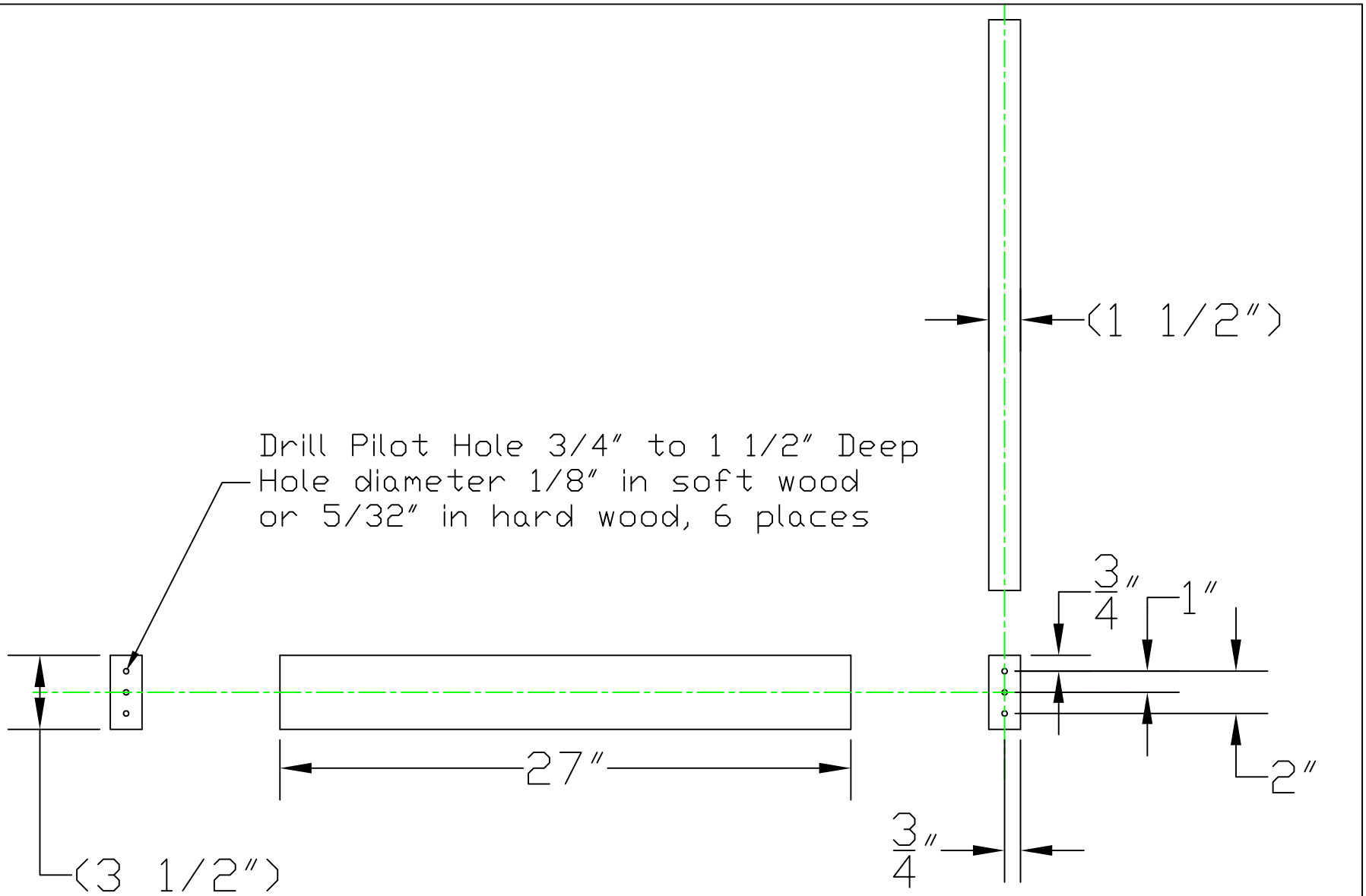
SIZE

DWG NO. 1002

REV A

SCALE 3:4

SHEET 1 of 1



1004	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified
Dimensions are in Inches

Tolerances:

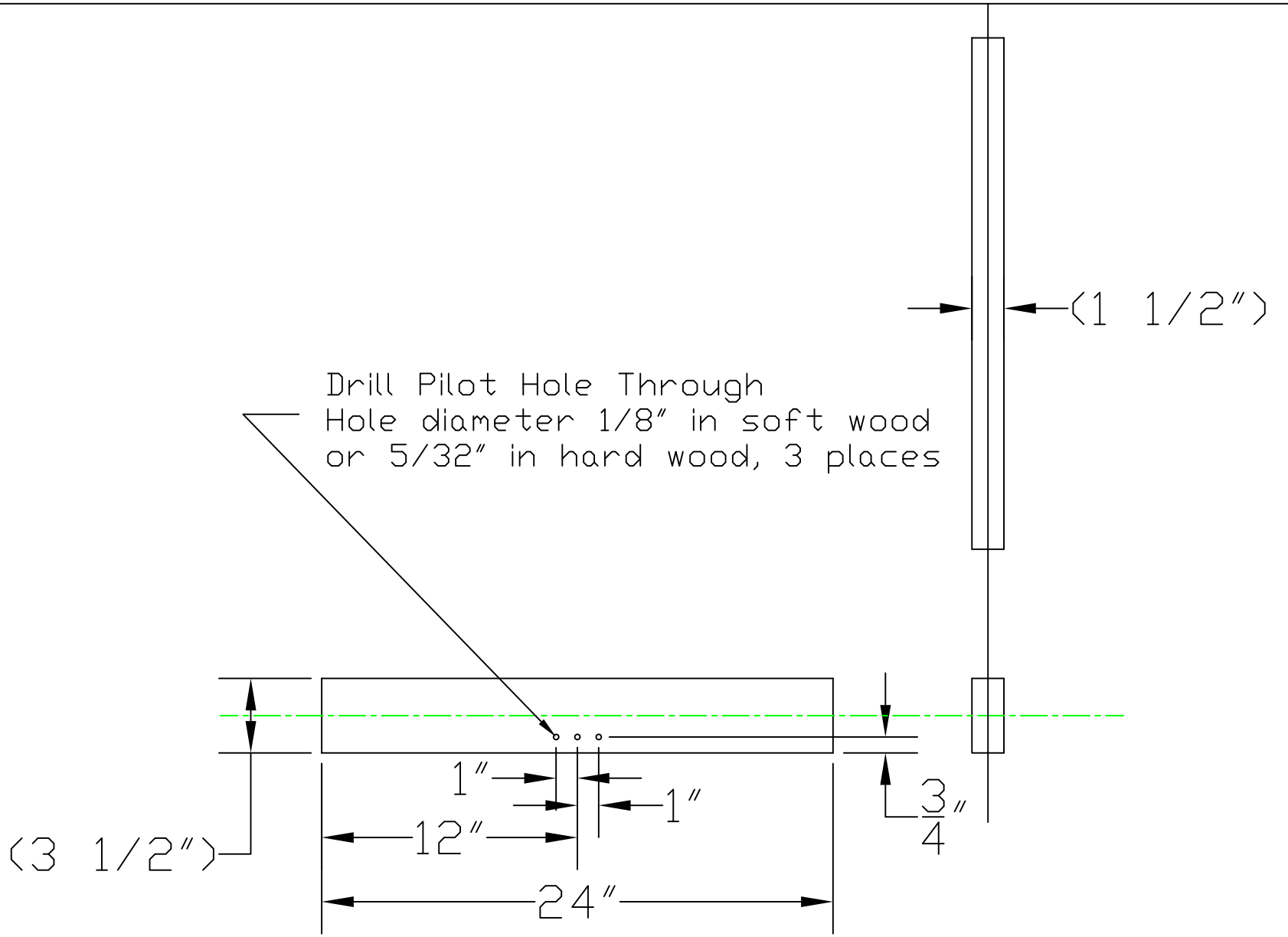
Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

Dwg. By: T. Jacobs

Date: 08 MAY 2004

Cross Piece, Lower, Loom, Navajo

SIZE		DWG NO.	REV
		1003	A
SCALE 1:1			SHEET 1 of 1



2000	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified
Dimensions are in Inches

Tolerances:

Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

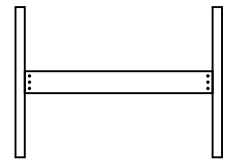
Dwg. By: T. Jacobs

Date: 08 MAY 2004

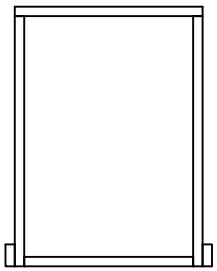
Legs, Loom, Navajo

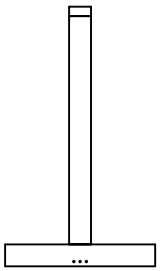
SIZE | DWG NO. 1004 | REV A

SCALE 1:1 | SHEET 1 of 1



Upper Cross Piece

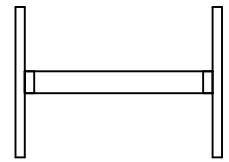


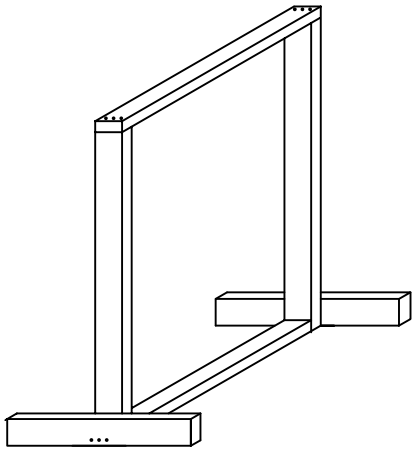


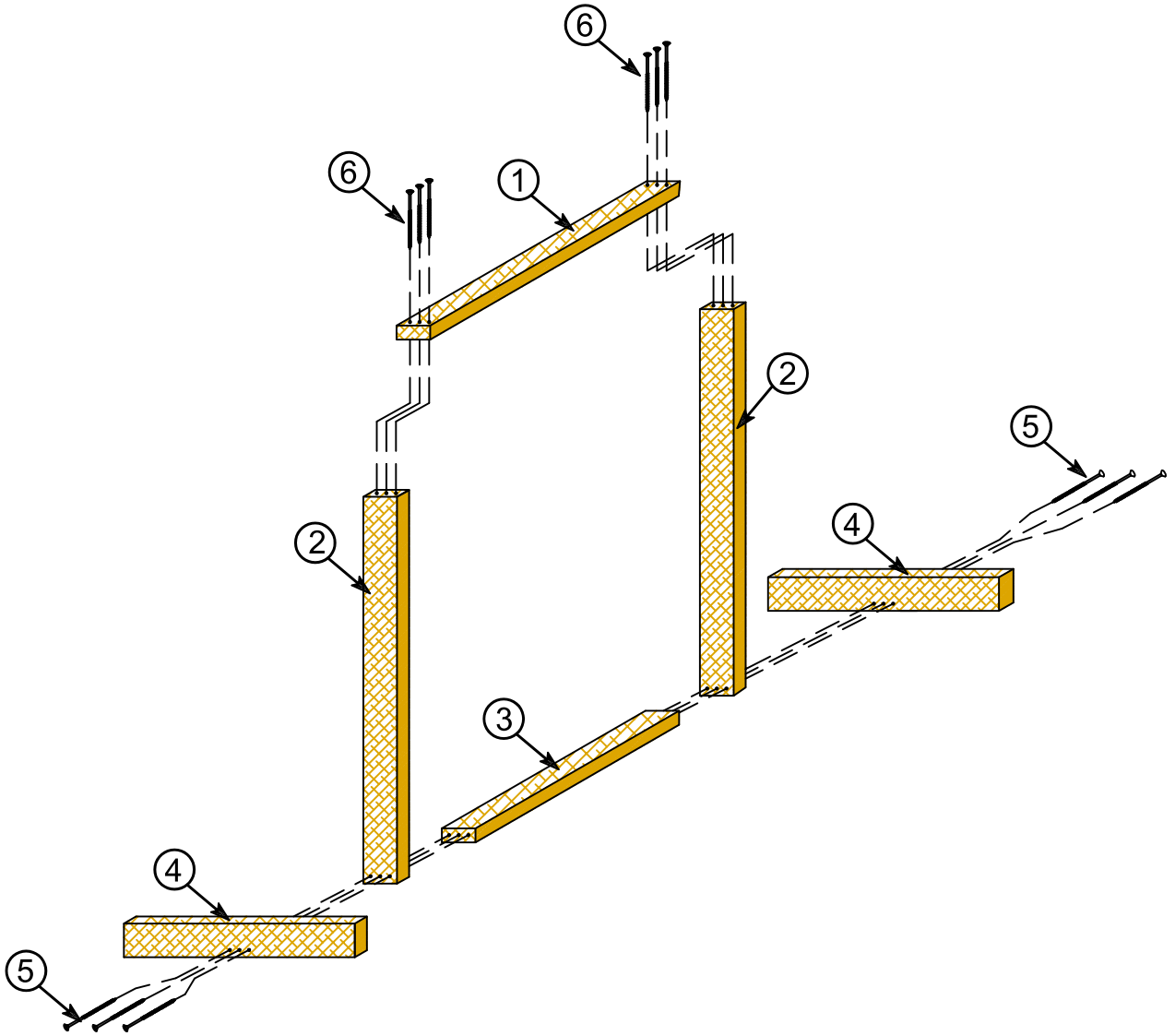
Uprights

Legs

Lower Cross Piece







Note: Parts list and instructions are on drawing number 1000.

2001	2002
Next Assy.	Used On
Application	

Unless Otherwise Specified Dimensions are in Inches

Tolerances:

Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

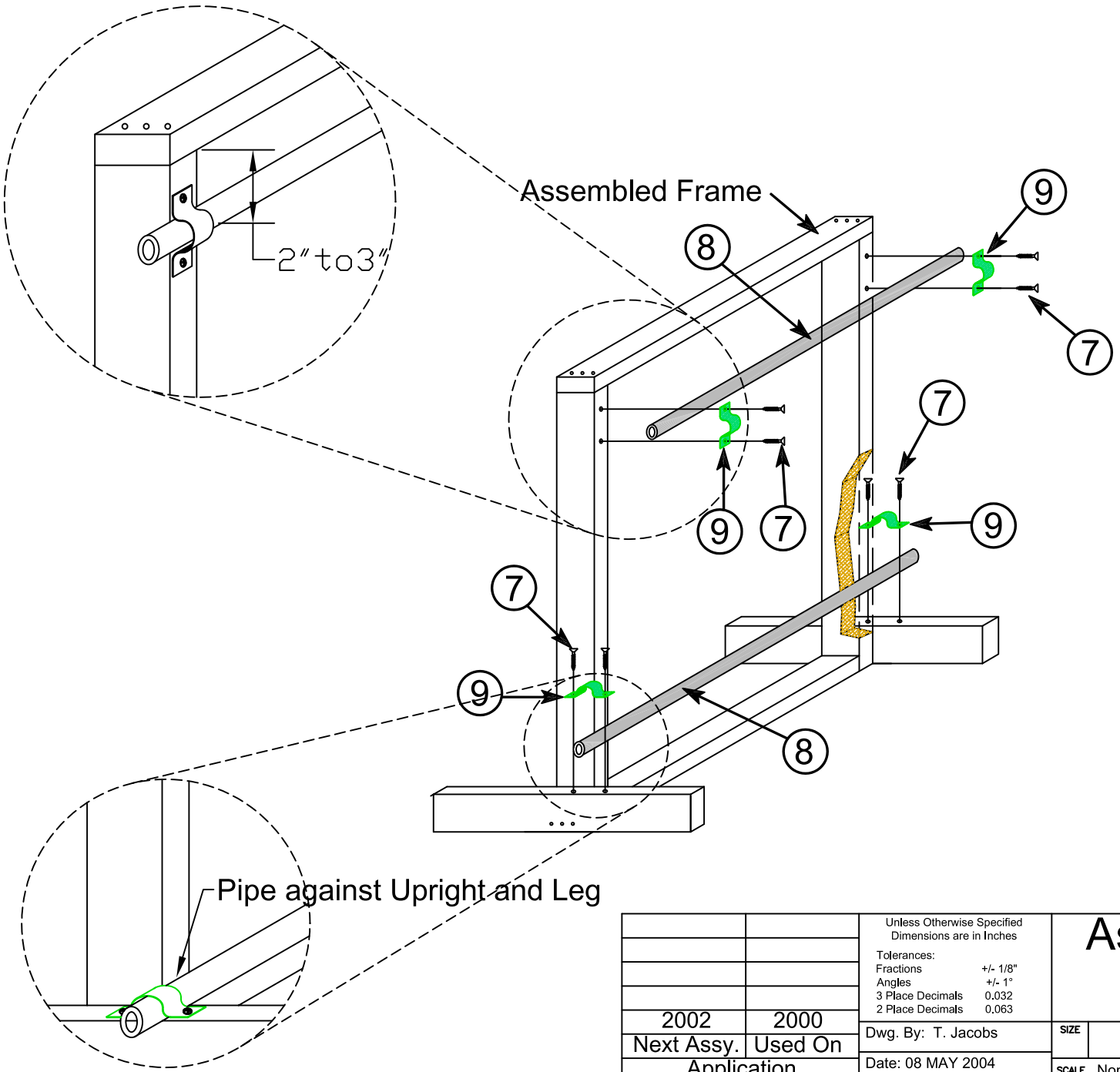
Dwg. By: T. Jacobs

Date: 08 MAY 2004

Assembly, Frame, Novajo Loom

SIZE | DWG NO. 2000 | REV A

SCALE None | SHEET 1 of 1



2002	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified Dimensions are in Inches

Tolerances:

Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

Dwg. By: T. Jacobs

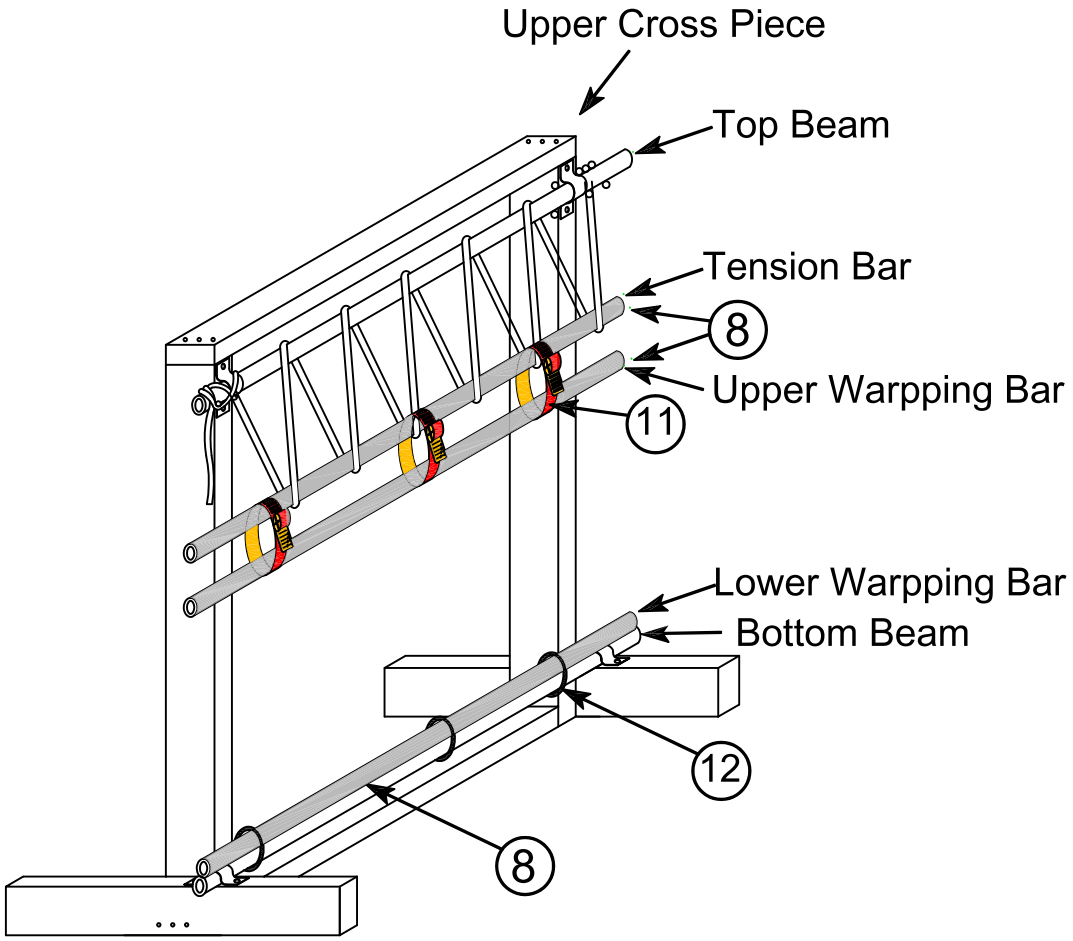
Date: 08 MAY 2004

Assembly, Beam, Novajo Loom

SIZE		DWG NO.	2001	REV A
SCALE None			SHEET 1 of 1	

Notes:

1. Attach the Tension Bar to the Top Beam using Cotton Cloths Line (Item 10),
2. Secure the Tension Bar useing the knot shown on drawing number 3000.
3. Attache the Upper Warp Bar to the Tension Bar using three Radiator Hose Calmps (Item 11). (Hint: Put the Hose Clamps onto the Tension Bar and then slide the Warp Bar into the Clamps.)
   Leave a one to two inch space between the Tension Bar and Warp Bar.
   The Tension Bar and Upper Warp Bar should be parallel to the Upper Cross Piece.
4. Attach the Lower Warp Bar with Baling Wire (Item 12)



3000	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified
Dimensions are in Inches

Tolerances:

Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

Dwg. By: T. Jacobs

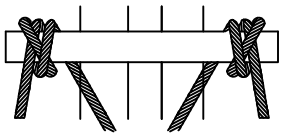
Date: 08 MAY 2004

Bar, Tension & Warp, Assembly, Novajo Loom

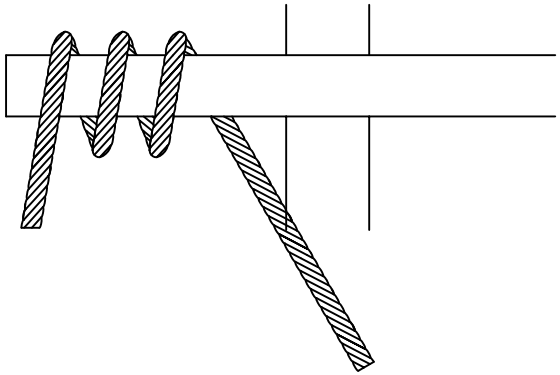
SIZE		DWG NO.	2002	REV A
SCALE None			SHEET 1 of 1	

Notes:

1. To secure the tension rope use the following "knot." This knot allows you to easily adjust the tensions. The left and right knots will be mirror images.
2. A. Wrap the rope around the Top Beam three times starting up the back and looping over the top so it drapes down the front.
   B. Lift the TOP of the Center Loop Over the TOP of the Outer Loop.
   C. Lift the BOTTOM of the Inner Loop over the BOTTOM of the Center Loop.
   D. Slide the Ropes Together and Pull Tight.

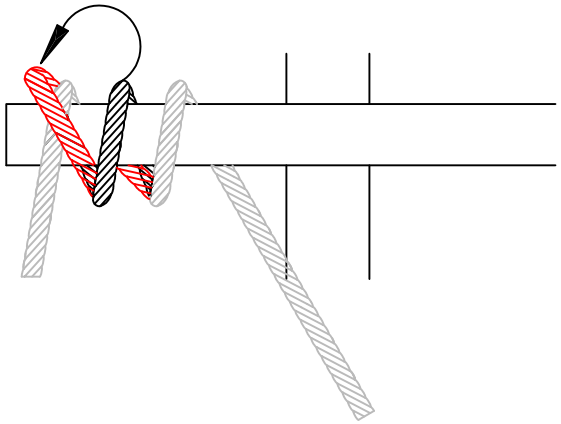


Step 1
Wrap Rope Three Times Around
The End of the Top Beam



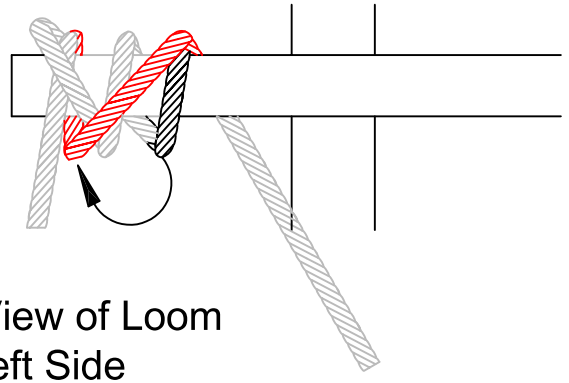
Front View of Loom
Left Side

Step 2
Lift Top of the Center Loop Over
the Top of the Outer Loop



Front View of Loom
Left Side

Step 3
Lift Bottom of the Inside Loop Over
the Bottom of the Middle Loop



Front View of Loom
Left Side

None	2000
Next Assy.	Used On
Application	

Unless Otherwise Specified
Dimensions are in Inches

Tolerances:

Fractions	+/- 1/8"
Angles	+/- 1°
3 Place Decimals	0.032
2 Place Decimals	0.063

Dwg. By: T. Jacobs

Date: 08 MAY 2004

Rope, Tension, Navajo Loom

SIZE		DWG NO.	3000	REV
SCALE	None			SHEET 1 of 1