

FTC 2015-2016 DIY Mountain Build Guide



Prints and Bill of Materials

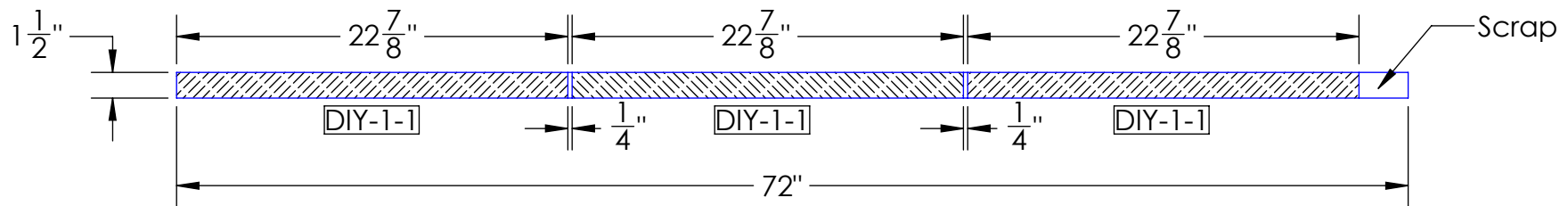
Check out the [DIY2015-2016 Assembly Guide](#) for step by step assembly instructions

Release 1.0 9/10/15

	Raw Parts	Qty for 1 Mountain	parts created	Created Part Name	Qty	board cut length	Competition field counterparts		
Boards									
-1-1	1x2 x 6ft	2	6	Lower Hurdle	6	22 7/8			
-1-2	1x3 x 6ft	1	1	Lower Mountain Center	1	35 3/4			
-1-3	1x4 x 8ft	4	12	Lower Mountain Side	2	35 3/4			
-2-1				Upper Hurdle	8	22 7/8			
-3-1				Mid Mountain Stay	2	29 3/8			
-2-2	1x6 x 6ft	1	3	Upper Mountain Side	2	20 3/4			
-2-3				Upper Mountain Center	1	20 3/4			
-3-2	2x4 x 8ft	3	6	Arch Support Leg	2	59 3/4			
-3-3				Arch lower cross member	2	48			
-4-1				Outside Connector	2	4			
-4-2				Inside Connector	1	30			
Scrap									
-5-4				Trigger	3		am-3036		
-5-6				MRM	1		am-3093_holder (qty 2), and am-3093_bracket (qty 1)		
-5-5				Release	3		am-3024		
Plywood									
-1-4	4ftx4ft x 1/2"	1	3	Lower Mountain Panel	1	35.75 x 48			
-5-3				Ball Fence	2		am-3096		
-2-4	2ftx4ft x 1/4"	1	1	Upper Mountain Panel	1	20.75 x 48			
Metal Parts									
-5-1	90 L channel 8ft	4	14	Hurdle Armor	14	22 7/8			
	1/2" x 4ft Pipe	1	1	Pull-up Bar	1	N/A	am-3090-2		
	1/2" Base flange	2	2	Pull-up mount	2	N/A			
Lexan									
-5-2	1/16th x 2ftx2ft	2	2	1/16th Lexan Panel	2	20.875 x 17.5	am-3095		
Fasteners									
	#8 1-5/8" wood screw	1	box						
	#8 1-1/4" wood screw	1	box						

Button head wood screw		1	box						
1/4-20 x 3.00"		1	each						
1/4-20 x 1.75"		3	each						
1/4-20 x 1.00"		3	each						
1/4-20 x 1-1.5" Eye Lag Screw		1	each						
1/4" washer		9	each						
1/4-20 locknut		7	each						
Paracord		1	spool						
Tool List									
Drill - Cordless or staple gun									
-Screw driver bit (needs to match screw type)									
-Drill bit	7/64" or 3/32"								
	1/4"								
Bar clamp - 12in									
C-Clamps - 4in									
2x Plumbing pliers									
7/16" wrench									
matching wrench for 1/4-20 bolts									
protractor									

Rev	Discription of Changes
1	Original Print



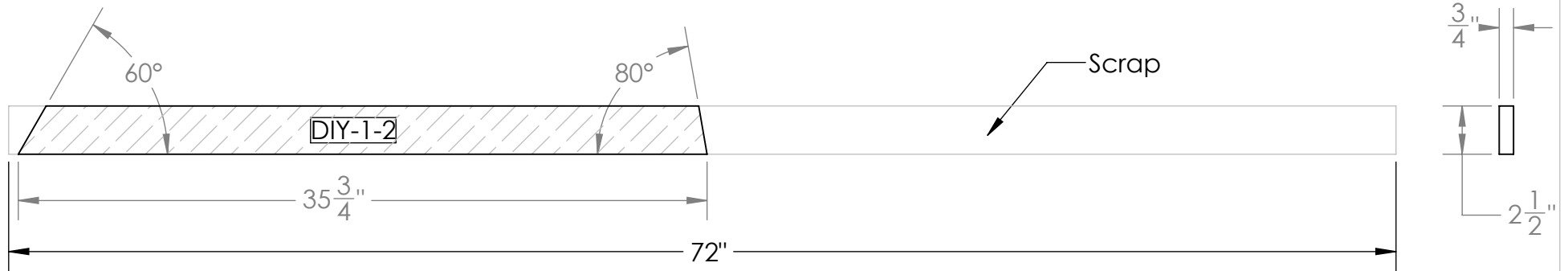
Need 2 sets per Mountain

Standard 1x2in board size

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/8$ ANGULAR: MACH \pm BEND $\pm 5^\circ$ TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005 INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL Pine economy board FINISH Sanded & Smooth DO NOT SCALE DRAWING		NAME	DATE	15-16 FTC DIY Field DIY16 - 1x2 x 6ft Board Usage SIZE DWG. NO. REV A 1x2 x 6ft 1 SCALE: 1:10 WEIGHT: SHEET 1 OF 1	
		DRAWN	DB		8/12/15
		CHECKED			
		ENG APPR.			
		MFG APPR.			
	Q.A.				
	COMMENTS:				

Rev	Discription of Changes
1	Original Print

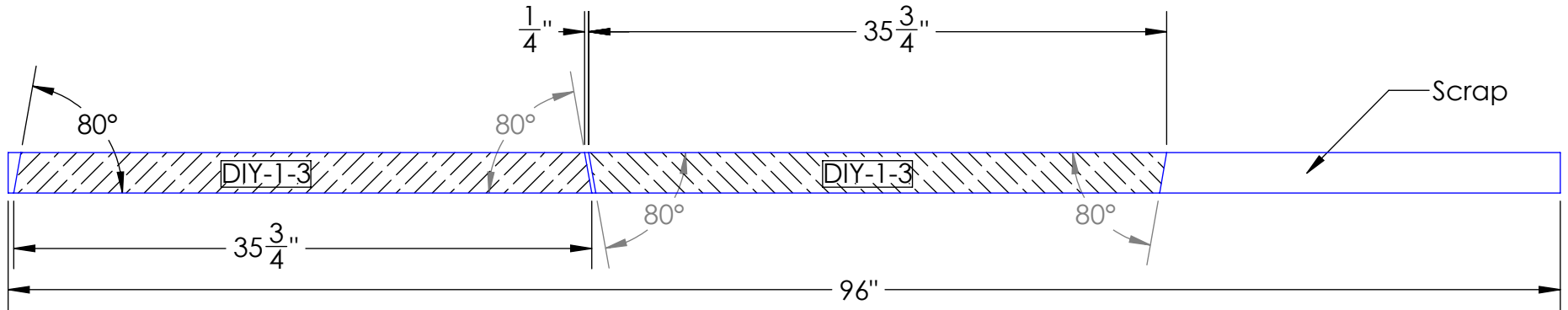
Standard 1x3in board size



Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/8$ ANGULAR: MACH \pm BEND $\pm 5^\circ$ TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005		DRAWN	DB	
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE:
MATERIAL Pine economy board		ENG APPR.		DIY16 - 1x3 x 6ft
FINISH Sanded & Smooth		MFG APPR.		Board Usage
DO NOT SCALE DRAWING		Q.A.		SIZE DWG. NO. REV
		COMMENTS:		A 1x3 x 6ft 1
		SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print

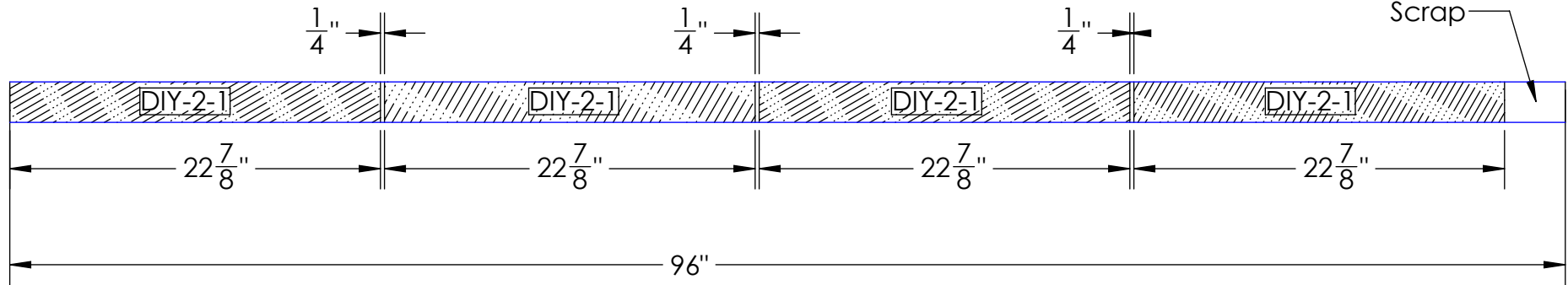


Need 1 set per Mountain

Standard 1x4in board size

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED		
FRACTIONAL ±1/8		ENG APPR.		
ANGULAR: MACH ± BEND ±5°		MFG APPR.		
TWO PLACE DECIMAL ±0.010		Q.A.		
THREE PLACE DECIMAL ±0.005		COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:				
MATERIAL				
Pine economy board				
FINISH				
Sanded & Smooth				
DO NOT SCALE DRAWING				
		TITLE:		DIY16 - 1x4 x 8ft Board Usage
SIZE	DWG. NO.	REV		
A	1x4 x 8ft	1		
SCALE: 1:10		WEIGHT:	SHEET 1 OF 3	

Rev	Discription of Changes
1	Original Print

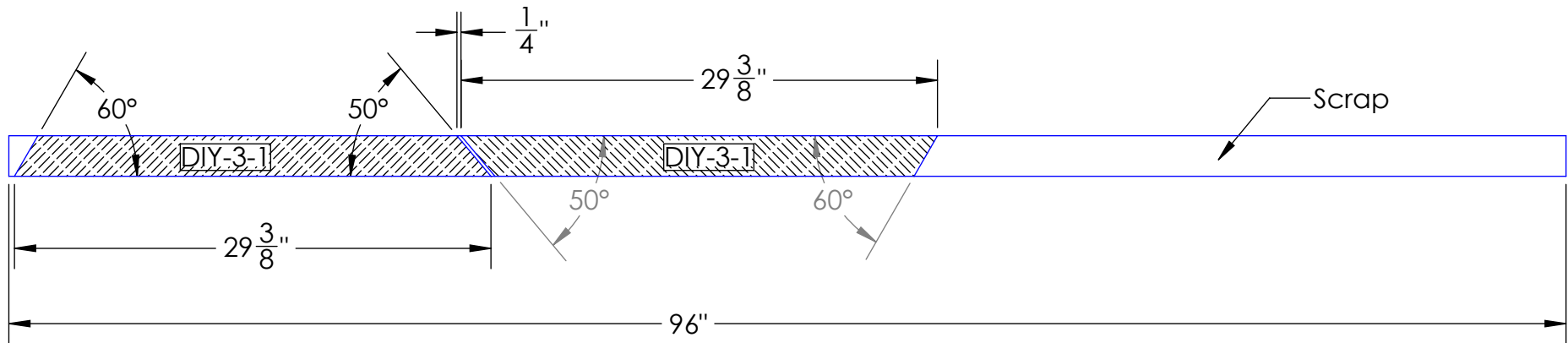


Need 2 sets per Mountain

Standard 1x4in board size

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED		SIZE DWG. NO. REV
MATERIAL Pine economy board	ENG APPR.		A 1x4 x 8ft 1
FINISH Sanded & Smooth	MFG APPR.		SCALE: 1:10 WEIGHT: SHEET 2 OF 3
DO NOT SCALE DRAWING	Q.A.		
	COMMENTS:		

Rev	Discription of Changes
1	Original Print

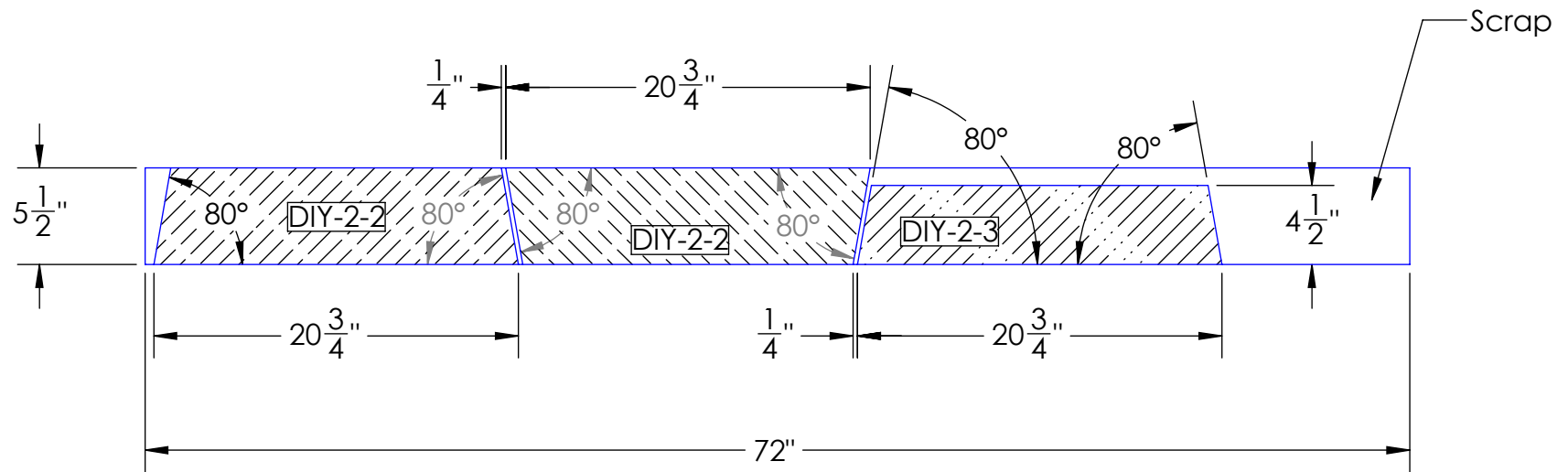


Need 1 set per Mountain

Standard 1x4in board size

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED		TITLE:
FRACTIONAL ±		ENG APPR.		DIY - 1x4 x 8ft Board Usage
ANGULAR: MACH ± BEND ±		MFG APPR.		
TWO PLACE DECIMAL ±		Q.A.		SIZE
THREE PLACE DECIMAL ±		COMMENTS:		DWG. NO.
INTERPRET GEOMETRIC TOLERANCING PER:				REV
MATERIAL				A
Pine economy board				1x4 x 8ft
FINISH				1
Sanded & Smooth				SCALE: 1:10
DO NOT SCALE DRAWING				WEIGHT:
				SHEET 3 OF 3

Rev	Discription of Changes
1	Original Print

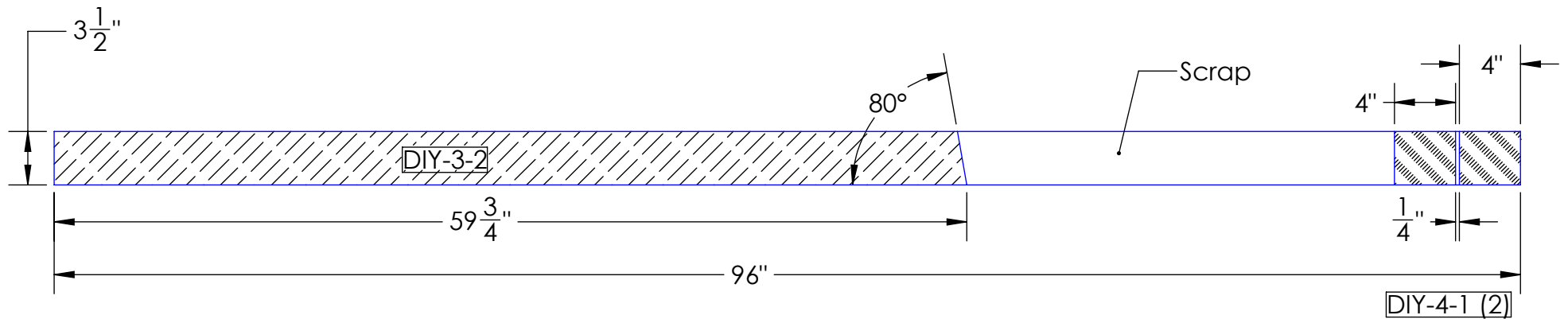


Standard 1x6in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED		TITLE:
FRACTIONAL ±1/8		ENG APPR.		DIY16 - 1x6 x 6ft Board Usage
ANGULAR: MACH ± BEND ±5°		MFG APPR.		
TWO PLACE DECIMAL ±0.010		Q.A.		DWG. NO.
THREE PLACE DECIMAL ±0.005		COMMENTS:		REV
INTERPRET GEOMETRIC TOLERANCING PER:				1
MATERIAL				SCALE: 1:10
Pine economy board				WEIGHT:
FINISH				SHEET 1 OF 1
Sanded & Smooth				
DO NOT SCALE DRAWING				

Rev	Discription of Changes
1	Original Print

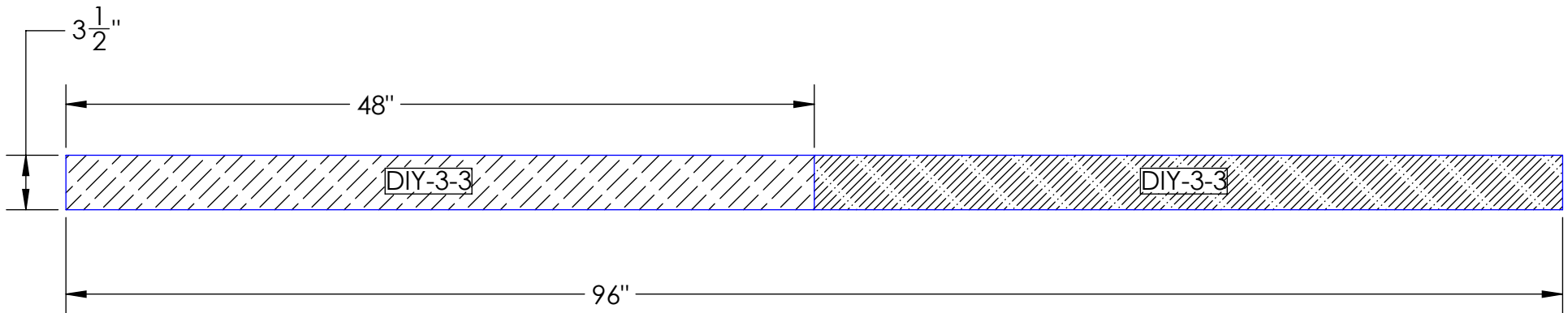


Standard 2x4in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field TITLE: DIY16 - 2x4 x 8ft Board Usage		
DIMENSIONS ARE IN INCHES	DRAWN	DB	8/13/15			
TOLERANCES:	CHECKED					
FRACTIONAL ±	ENG APPR.					
ANGULAR: MACH ± BEND ±	MFG APPR.					
TWO PLACE DECIMAL ±	Q.A.					
THREE PLACE DECIMAL ±	COMMENTS:					
INTERPRET GEOMETRIC TOLERANCING PER:				SIZE	DWG. NO.	REV
MATERIAL				A	2x4 x 8ft	1
Pine economy board						
FINISH						
Sanded & Smooth						
DO NOT SCALE DRAWING				SCALE: 1:10	WEIGHT:	SHEET 2 OF 3

Rev	Discription of Changes
1	Original Print

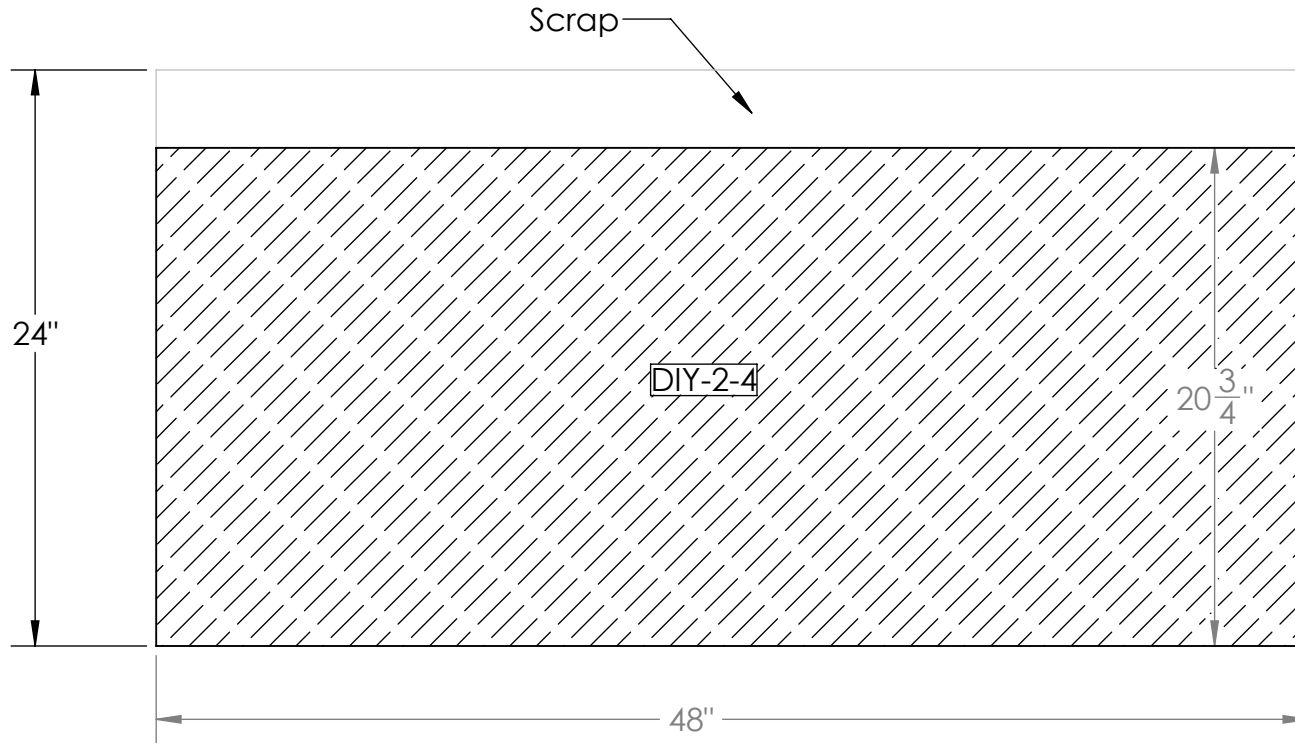


Standard 2x4in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field TITLE: DIY16 - 2x4 x 8ft Board Usage	
DIMENSIONS ARE IN INCHES		DRAWN	DB		8/13/15
TOLERANCES:		CHECKED			
FRACTIONAL ±		ENG APPR.			
ANGULAR: MACH ± BEND ±		MFG APPR.			
TWO PLACE DECIMAL ±		Q.A.			
THREE PLACE DECIMAL ±		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					
MATERIAL					
Pine economy board					
FINISH					
Sanded & Smooth		SIZE	DWG. NO.	REV	
DO NOT SCALE DRAWING		A	2x4 x 8ft	1	
		SCALE: 1:10	WEIGHT:	SHEET 3 OF 3	

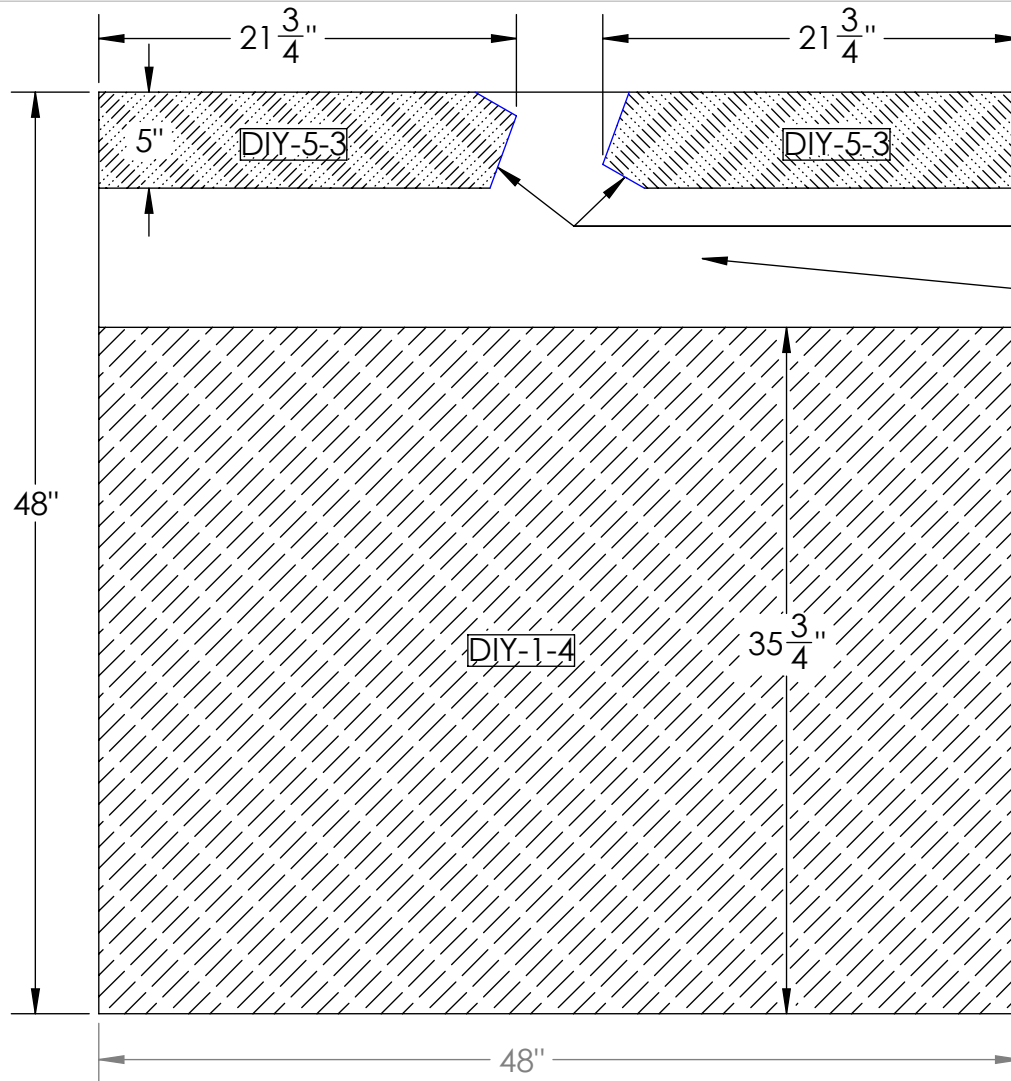
Rev	Discription of Changes
1	Original Print



Standard 24x48x1/4n board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED		TITLE:
FRACTIONAL ± 1/8		ENG APPR.		DIY16 - 24x48x1/4in Panel Usage
ANGULAR: MACH ± BEND ± 5°		MFG APPR.		
TWO PLACE DECIMAL ± 0.010		Q.A.		SIZE DWG. NO. REV
THREE PLACE DECIMAL ± 0.005		COMMENTS:		A 24x48x1/4 1
INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:8 WEIGHT: SHEET 1 OF 1
MATERIAL				
Plywood Handy Panel				
FINISH				
Sanded & Smooth				
DO NOT SCALE DRAWING				



Rev	Discription of Changes
1	Original Print
1.1	Updated Part numbers

See DIY-5-4 print for cut detail

Scrap

Standard 48x48x1/2in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	DB
TOLERANCES:		CHECKED	8/31/15
FRACTIONAL ± 1/8		ENG APPR.	
ANGULAR: MACH ± BEND ± 5°		MFG APPR.	
TWO PLACE DECIMAL ± 0.010		Q.A.	
THREE PLACE DECIMAL ± 0.005		COMMENTS:	
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL			
Plywood handy panel			
FINISH			
Sanded & Smooth			
DO NOT SCALE DRAWING			

15-16 FTC DIY Field

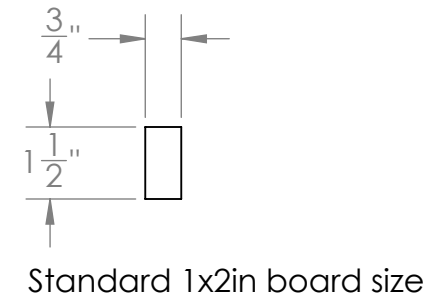
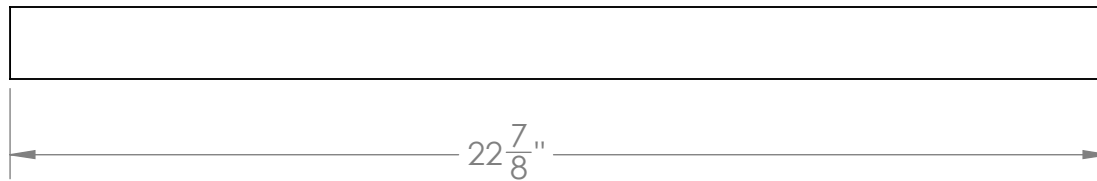
TITLE:

DIY16 - 48x48x1/2in
Panel Usage

SIZE	DWG. NO.	REV
A	48x48x1/2	1.1

SCALE: 1:10	WEIGHT:	SHEET 1 OF 1
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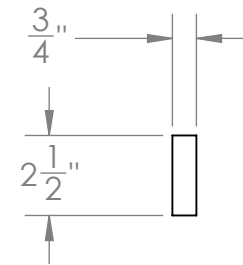
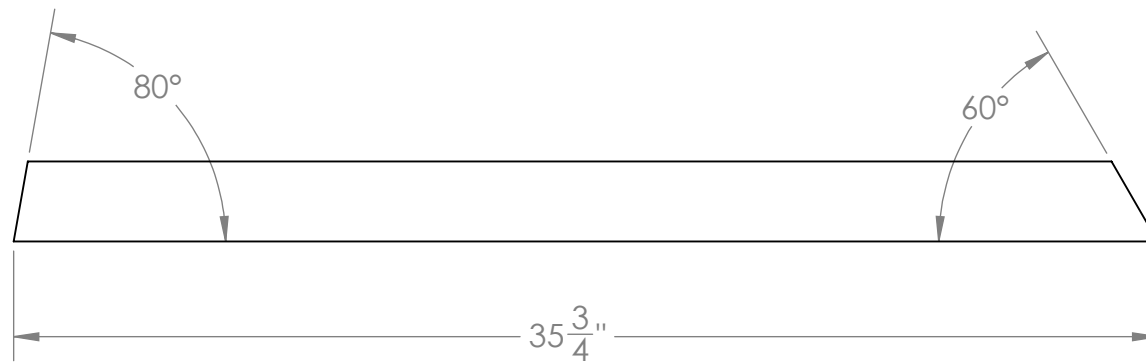
Rev	Discription of Changes
1	Original Print



Need 6 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<h1>15-16 FTC DIY Field</h1> <p>TITLE:</p> <h2>DIY16 - Lower Hurdle</h2>	
DIMENSIONS ARE IN INCHES		DRAWN	DB		8/11/15
TOLERANCES:		CHECKED			
FRACTIONAL $\pm 1/8$		ENG APPR.			
ANGULAR: MACH \pm BEND $\pm 5^\circ$		MFG APPR.			
TWO PLACE DECIMAL ± 0.010		Q.A.			
THREE PLACE DECIMAL ± 0.005		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					
MATERIAL					
Pine economy board					
FINISH					
Sanded & Smooth					
DO NOT SCALE DRAWING					
SIZE	DWG. NO.	REV			
A	DIY -1-1	1			
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1			

Rev	Discription of Changes
1	Original Print

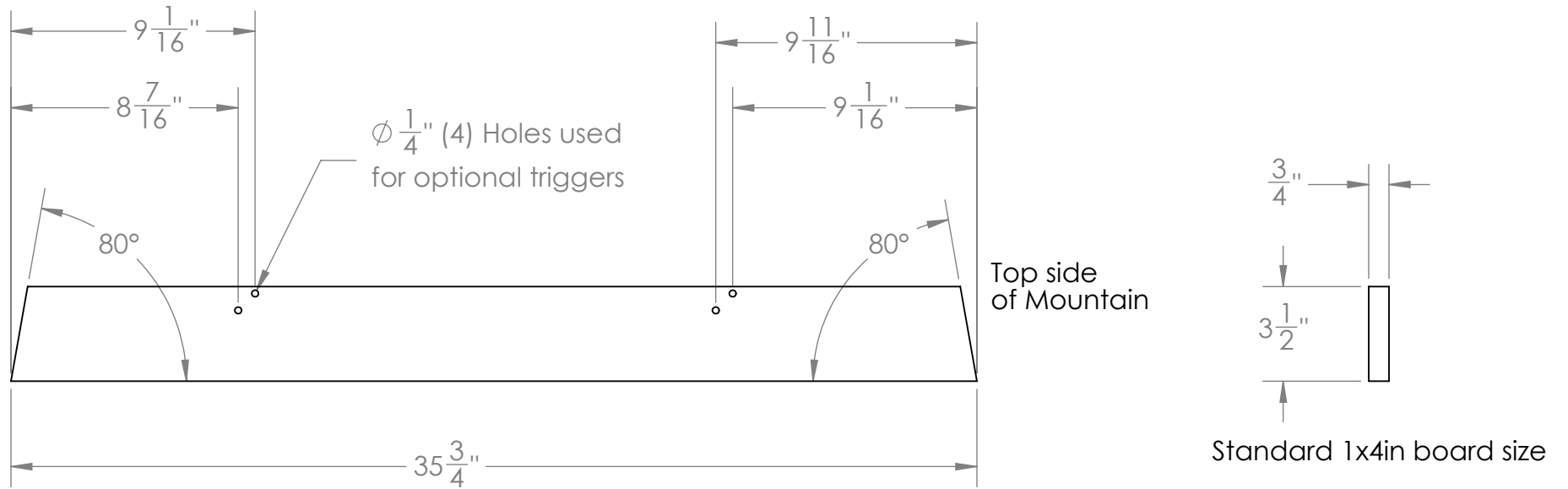


Standard 1x3in board size

Need 1 per mountain

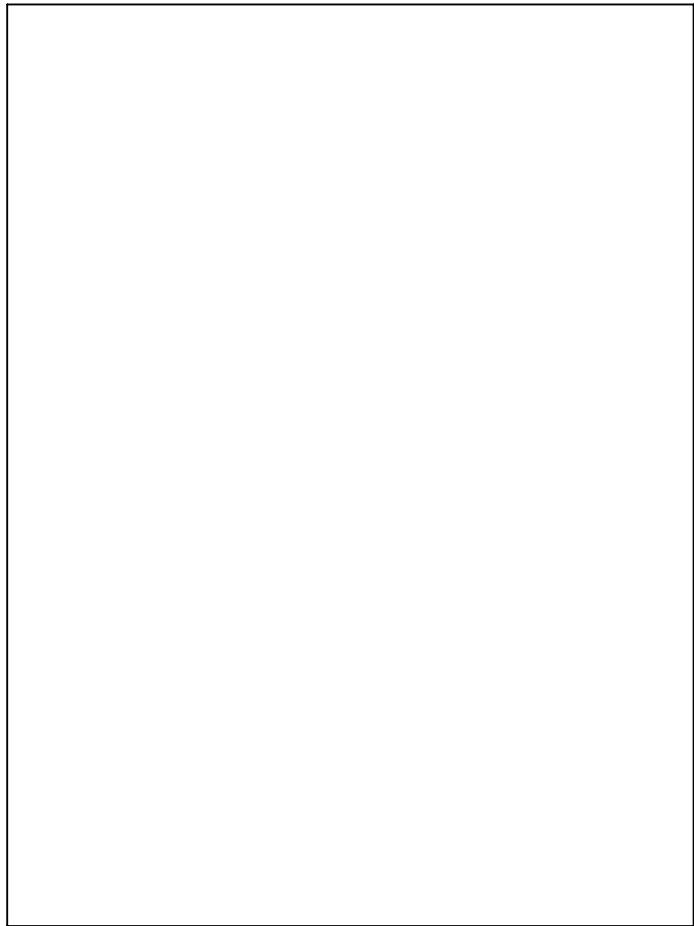
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ± BEND ±5° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	DB	
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		DIY16 - Lower Mountain Center
MATERIAL Pine economy board		ENG APPR.		
FINISH Sanded & Smooth		MFG APPR.		DWG. NO.
DO NOT SCALE DRAWING		Q.A.		REV
		COMMENTS:		A
				DIY -1-2
				1
				SCALE: 1:6
				WEIGHT:
				SHEET 1 OF 1

Rev	Description of Changes
1	Original Print
1.1	Add holes for Zip Line Triggers

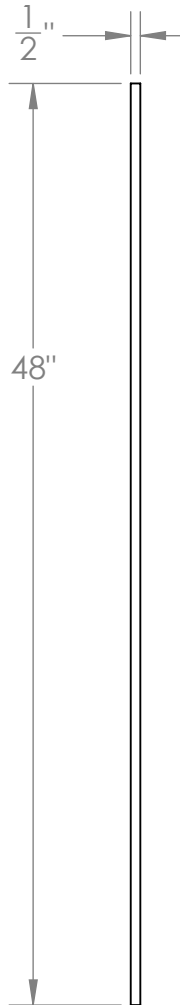


Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED		TITLE: DIY16 - Lower Mountain Side
FRACTIONAL ±1/8		ENG APPR.		
ANGULAR: MACH ± BEND ±5°		MFG APPR.		
TWO PLACE DECIMAL ±0.010		Q.A.		SIZE DWG. NO. REV A DIY -1-3 1.1
THREE PLACE DECIMAL ±0.005		COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:6 WEIGHT: SHEET 1 OF 1
MATERIAL Pine economy board				
FINISH Sanded & Smooth				
DO NOT SCALE DRAWING				



35 ³/₄"



48"

¹/₂"

Rev	Discription of Changes
1	Original Print

Standard 48x48x1/2in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ± 1/8
 ANGULAR: MACH ± BEND ± 5°
 TWO PLACE DECIMAL ± 0.010
 THREE PLACE DECIMAL ± 0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
 Pine economy board

FINISH
 Sanded & Smooth

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DB	8/11/15
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

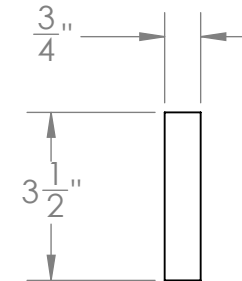
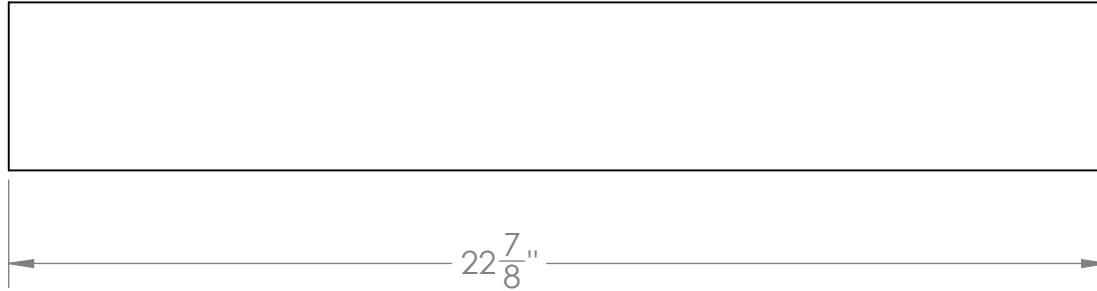
15-16 FTC DIY Field

TITLE:
 DIY16 - Lower Mountain Panel

SIZE	DWG. NO.	REV
A	DIY -1-4	1

SCALE: 1:10 WEIGHT: SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print

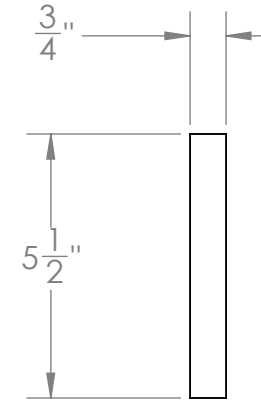
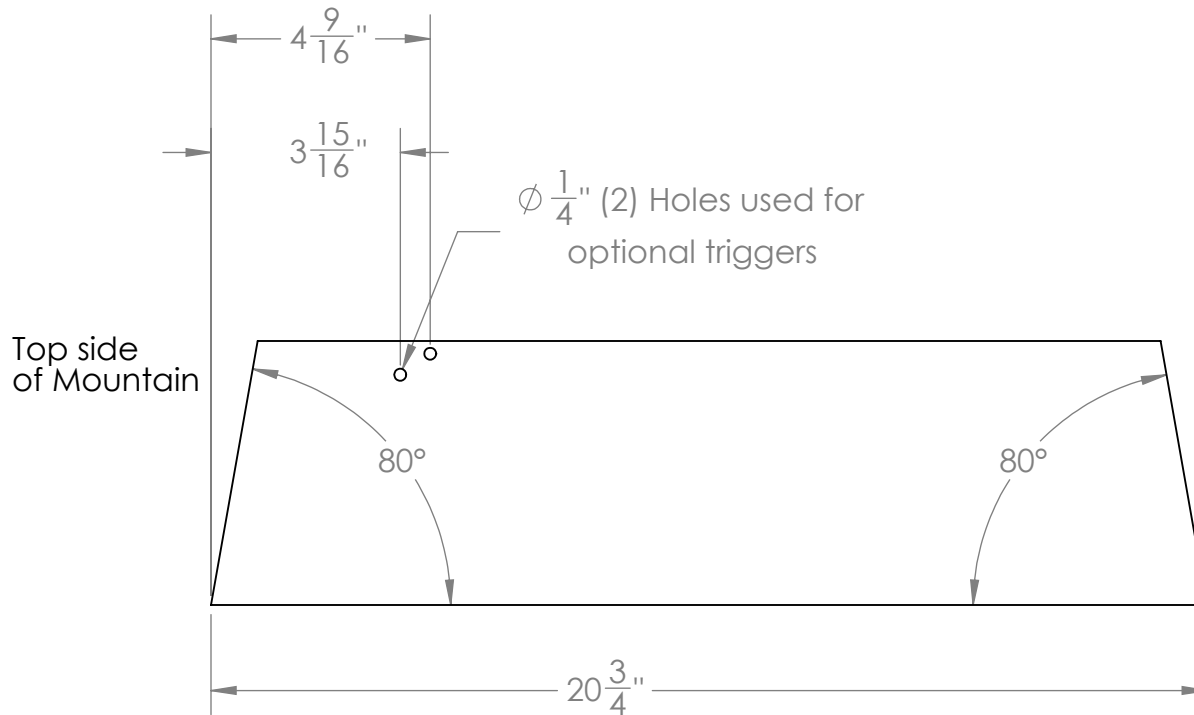


Standard 1x4in board size

Need 8 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<h1>15-16 FTC DIY Field</h1> <p>TITLE:</p> <h2>DIY16 - Upper Hurdle</h2>	
DIMENSIONS ARE IN INCHES		DRAWN	DB		8/11/15
TOLERANCES:		CHECKED			
FRACTIONAL $\pm 1/8$		ENG APPR.			
ANGULAR: MACH \pm BEND $\pm 5^\circ$		MFG APPR.			
TWO PLACE DECIMAL ± 0.010		Q.A.			
THREE PLACE DECIMAL ± 0.005		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					
MATERIAL					
Pine economy board					
FINISH					
Sanded & Smooth					
DO NOT SCALE DRAWING					
SIZE	DWG. NO.	REV			
A	DIY -2-1	1			
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1			

Rev	Discription of Changes
1	Original Print
1.1	Added holes for Zip Line Triggers

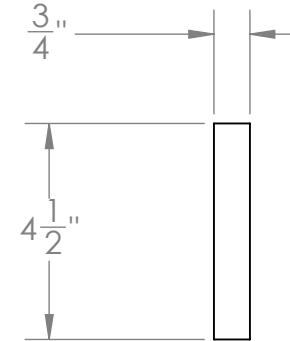
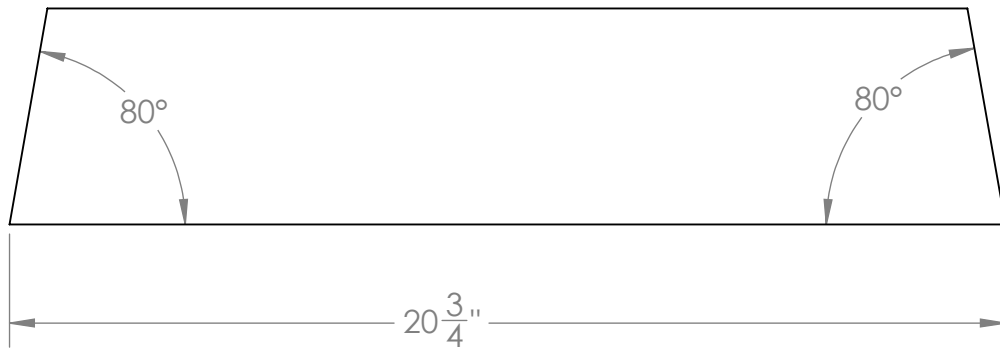


Standard 1x6in board size

Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	<h1>15-16 FTC DIY Field</h1> <p>TITLE:</p> <h2>DIY16 - Upper Mountain Side</h2>	
DIMENSIONS ARE IN INCHES	DRAWN	DB		8/31/15
TOLERANCES:	CHECKED			
FRACTIONAL $\pm 1/8$	ENG APPR.			
ANGULAR: MACH \pm BEND $\pm 5^\circ$	MFG APPR.			
TWO PLACE DECIMAL ± 0.010	Q.A.			
THREE PLACE DECIMAL ± 0.005	COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:				
MATERIAL				
Pine economy board				
FINISH				
Sanded & Smooth				
DO NOT SCALE DRAWING				
	SIZE	DWG. NO.	REV	
	A	DIY -2-2	1.1	
	SCALE: 1:4	WEIGHT:	SHEET 1 OF 1	

Rev	Discription of Changes
1	Original Print

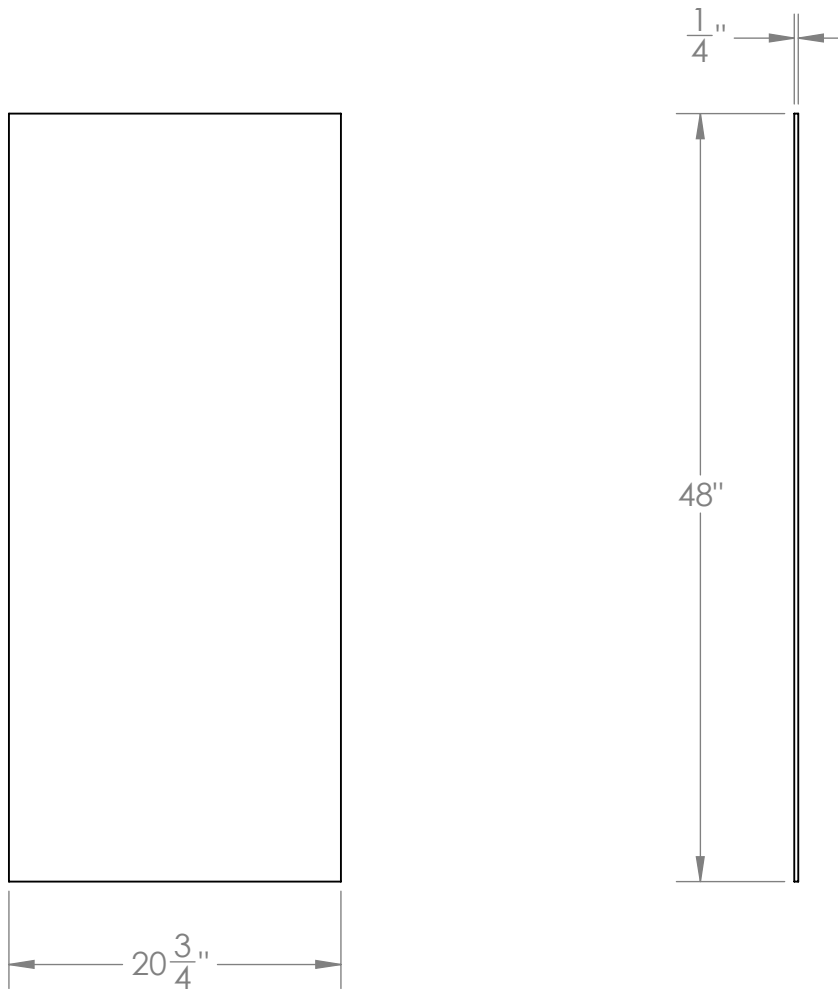


Cut down from 1x6in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES	DRAWN	DB	
TOLERANCES:	CHECKED		TITLE:
FRACTIONAL ±1/8	ENG APPR.		DIY16 - Upper Mountain Center
ANGULAR: MACH ± BEND ±5°	MFG APPR.		
TWO PLACE DECIMAL ±0.010	Q.A.		SIZE DWG. NO. REV
THREE PLACE DECIMAL ±0.005	COMMENTS:		A DIY -2-3 1
INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:4 WEIGHT: SHEET 1 OF 1
MATERIAL			
Pine economy board			
FINISH			
Sanded & Smooth			
DO NOT SCALE DRAWING			

Rev	Discription of Changes
1	Original Print

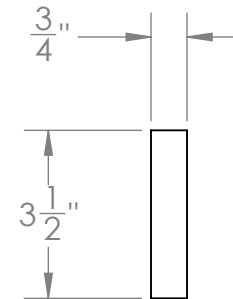
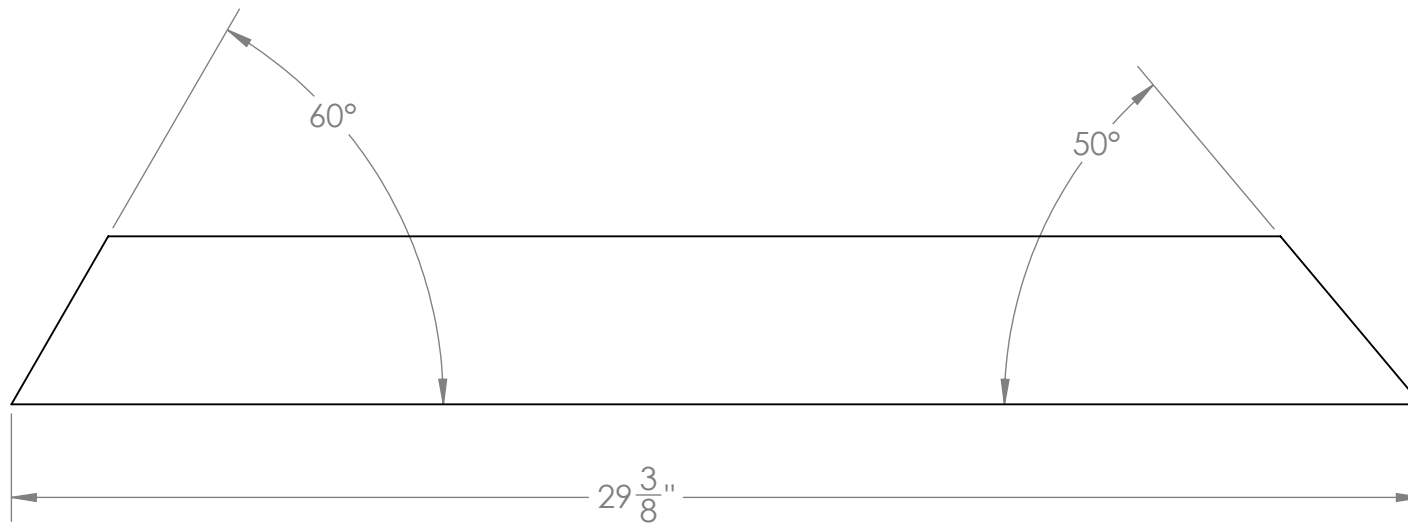


Standard 24x48x1/4in board size

Need 1 per mountain

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	15-16 FTC DIY Field		
DIMENSIONS ARE IN INCHES	DRAWN	DB		8/11/15	
TOLERANCES:	CHECKED		TITLE:		
FRACTIONAL $\pm 1/8$	ENG APPR.		DIY16 - Upper Mountain Panel		
ANGULAR: MACH \pm BEND $\pm 5^\circ$	MFG APPR.				
TWO PLACE DECIMAL ± 0.010	Q.A.		SIZE	DWG. NO.	REV
THREE PLACE DECIMAL ± 0.005	COMMENTS:		A	DIY -2-4	1
INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:12	WEIGHT:	SHEET 1 OF 1
MATERIAL					
Pine economy board					
FINISH					
Sanded & Smooth					
DO NOT SCALE DRAWING					

Rev	Discription of Changes
1	Original Print

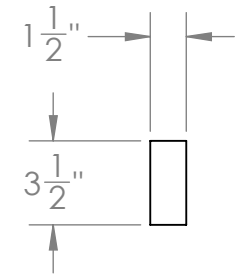
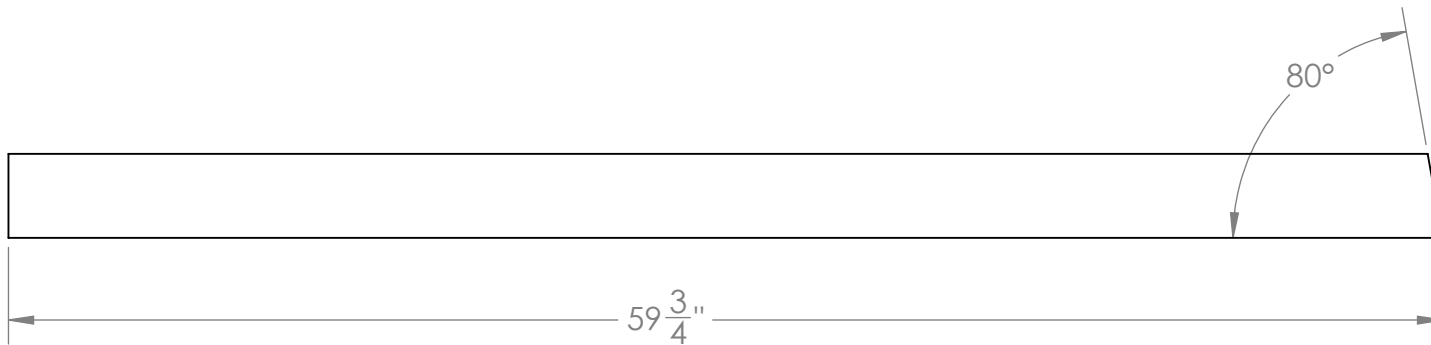


Standard 1x4in board size

Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ± BEND ±5° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	DB	
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE:
MATERIAL Pine economy board		ENG APPR.		DIY16 - Mid Mountain Stay
FINISH Sanded & Smooth		MFG APPR.		
DO NOT SCALE DRAWING		Q.A.		SIZE DWG. NO. REV
		COMMENTS:		A DIY -3-1 1
		SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print

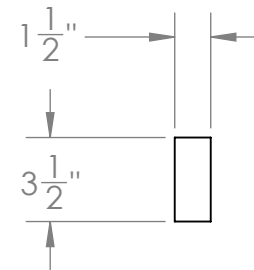
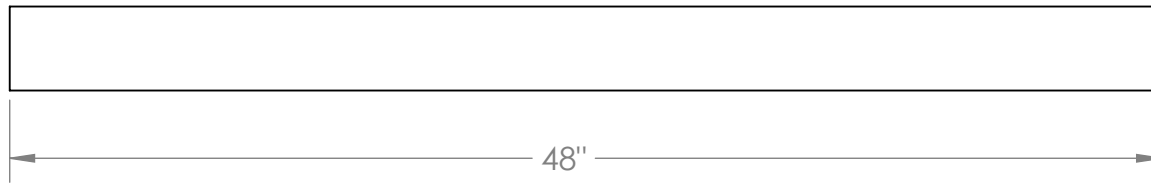


Standard 2x4in board size

Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ± BEND ±5° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	DB	
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE: DIY16 - Arch Support Leg
MATERIAL Pine economy board		ENG APPR.		
FINISH Sanded & Smooth		MFG APPR.		SIZE DWG. NO.
DO NOT SCALE DRAWING		Q.A.		A DIY -3-2
		COMMENTS:		REV 1
				SCALE: 1:8
				WEIGHT:
				SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print

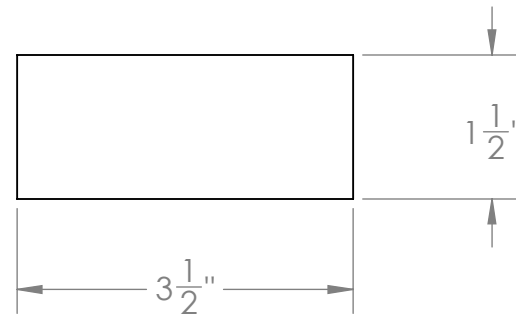
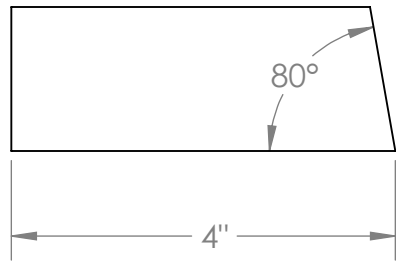


Standard 2x4in board size

Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/8$ ANGULAR: MACH \pm BEND $\pm 5^\circ$ TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005		DRAWN	DB	
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE: DIY16 - Arch Lower Cross Member
MATERIAL Pine economy board		ENG APPR.		
FINISH Sanded & Smooth		MFG APPR.		SIZE DWG. NO. REV A DIY -3-3 1
DO NOT SCALE DRAWING		Q.A.		
		COMMENTS:		SCALE: 1:8 WEIGHT: SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print

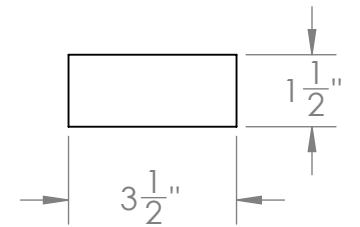
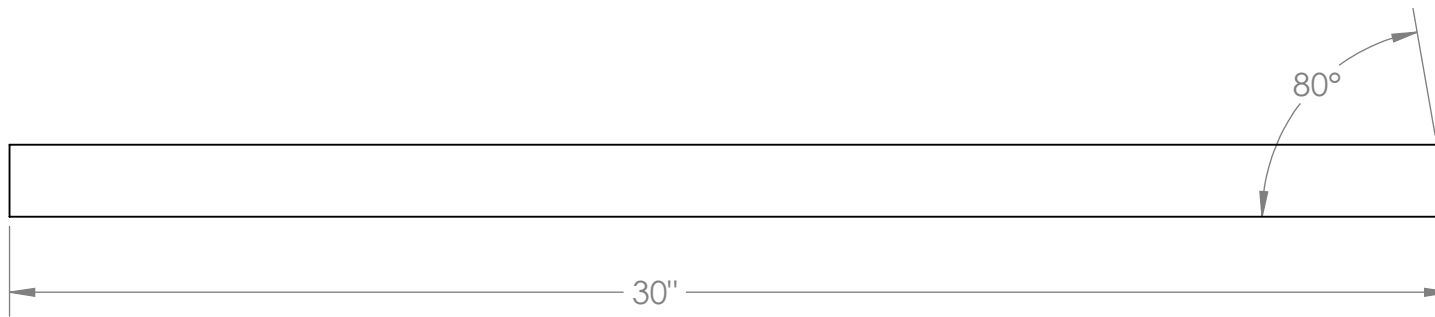


Standard 2x4in board size

Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES	DRAWN	DB	
TOLERANCES:	CHECKED		TITLE:
FRACTIONAL ±1/8	ENG APPR.		DIY16 - Outside Connector
ANGULAR: MACH ± BEND ±5°	MFG APPR.		
TWO PLACE DECIMAL ±0.010	Q.A.		SIZE DWG. NO. REV
THREE PLACE DECIMAL ±0.005	COMMENTS:		A DIY -4-1 1
INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:2 WEIGHT: SHEET 1 OF 1
MATERIAL			
Pine economy board			
FINISH			
Sanded & Smooth			
DO NOT SCALE DRAWING			

Rev	Discription of Changes
1	Original Print

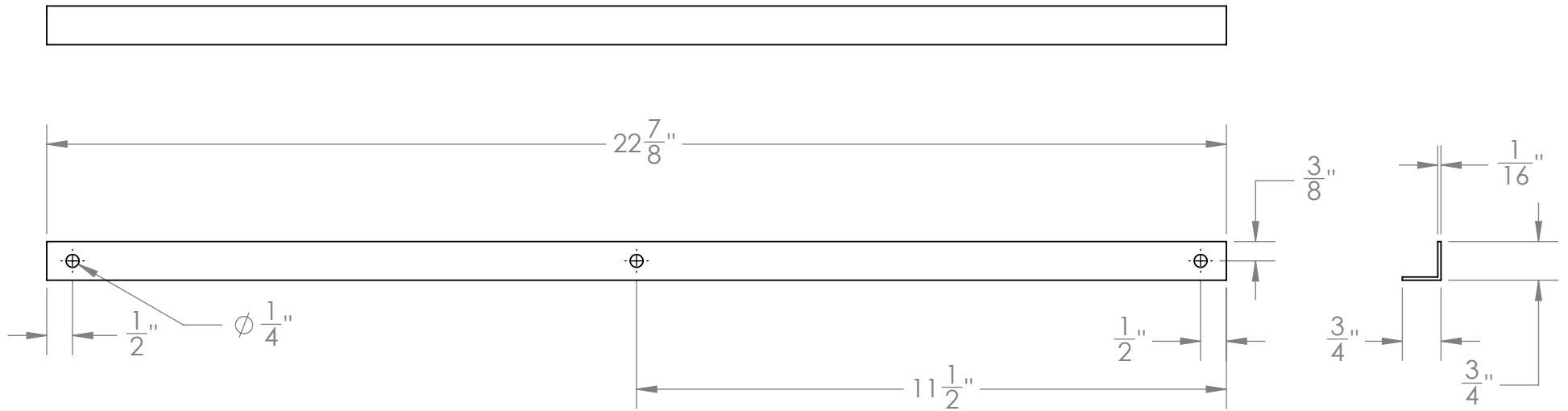


Standard 2x4in board size

Need 1 per mountain

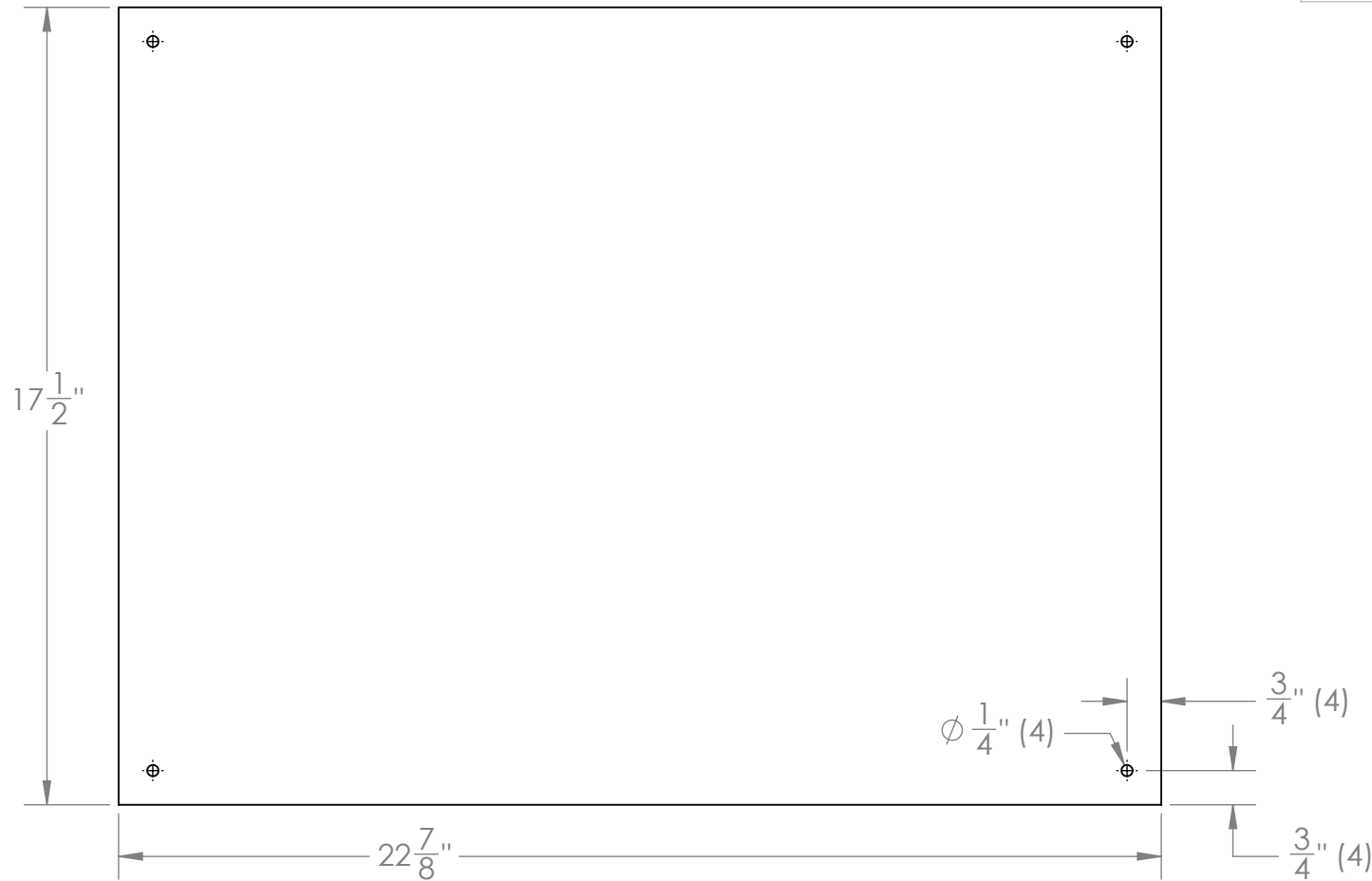
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED		TITLE: DIY16 - Inside Connector
FRACTIONAL ±1/8		ENG APPR.		
ANGULAR: MACH ± BEND ±5°		MFG APPR.		
TWO PLACE DECIMAL ±0.010		Q.A.		SIZE DWG. NO. REV A DIY -4-2 1
THREE PLACE DECIMAL ±0.005		COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:4 WEIGHT: SHEET 1 OF 1
MATERIAL Pine economy board				
FINISH Sanded & Smooth				
DO NOT SCALE DRAWING				

Rev	Discription of Changes
1	Original Print
1.1	Updated part number



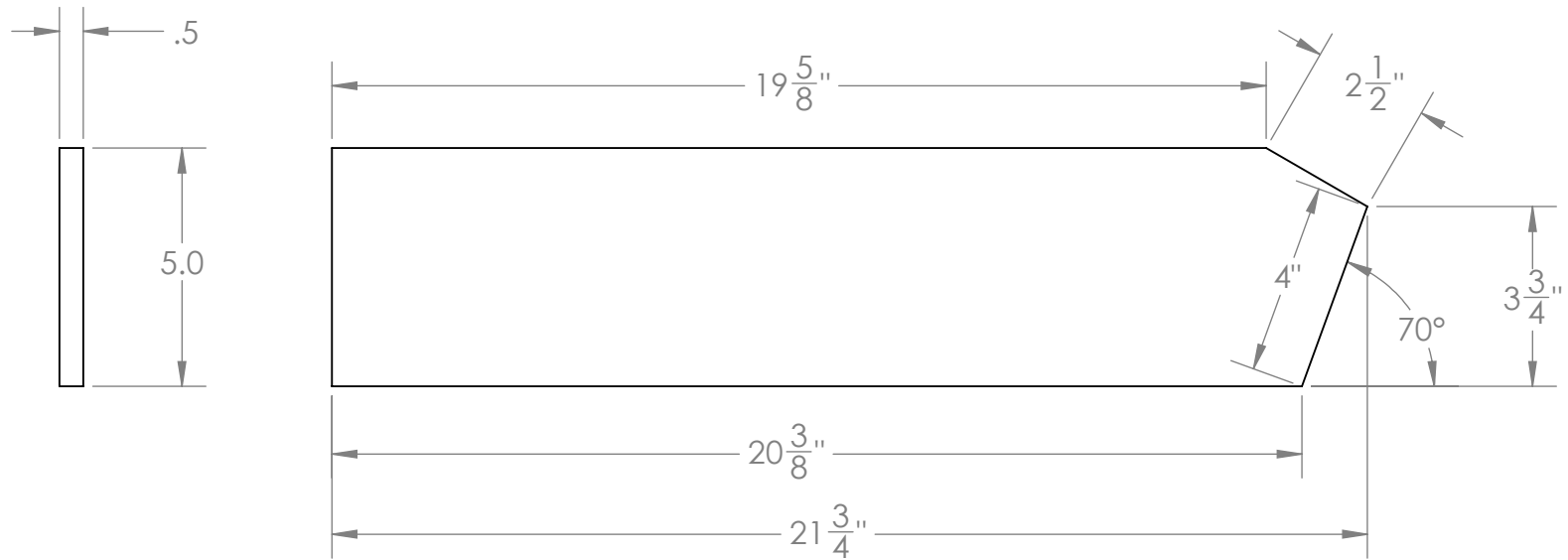
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/8$ ANGULAR: MACH \pm BEND $\pm 5^\circ$ TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005 INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL Aluminum FINISH Debured DO NOT SCALE DRAWING		NAME	DATE	15-16 FTC DIY Field TITLE: DIY16 - Hurdle Armor SIZE DWG. NO. REV A DIY -5-1 1.1 SCALE: 1:3 WEIGHT: SHEET 1 OF 1
	DRAWN	DB	8/27/15	
	CHECKED			
	ENG APPR.			
	MFG APPR.			
	Q.A.			
	COMMENTS:			

Rev	Discription of Changes
1	Original Print



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES		DRAWN	DB	
TOLERANCES:		CHECKED	8/28/15	
FRACTIONAL $\pm 1/8$		ENG APPR.		SIZE DWG. NO. REV A DIY -5-2 1
ANGULAR: MACH \pm BEND $\pm 5^\circ$		MFG APPR.		
TWO PLACE DECIMAL ± 0.010		Q.A.		SCALE: 1:4 WEIGHT: SHEET 1 OF 1
THREE PLACE DECIMAL ± 0.005		COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:		Lexan is a specific brand name for Polycarbonate, and PC will work for this part.		
MATERIAL				
1/16" thick Lexan				
FINISH				
Sanded & Smooth				
DO NOT SCALE DRAWING				

Rev	Discription of Changes
1	Original Print
1.1	Updated part number

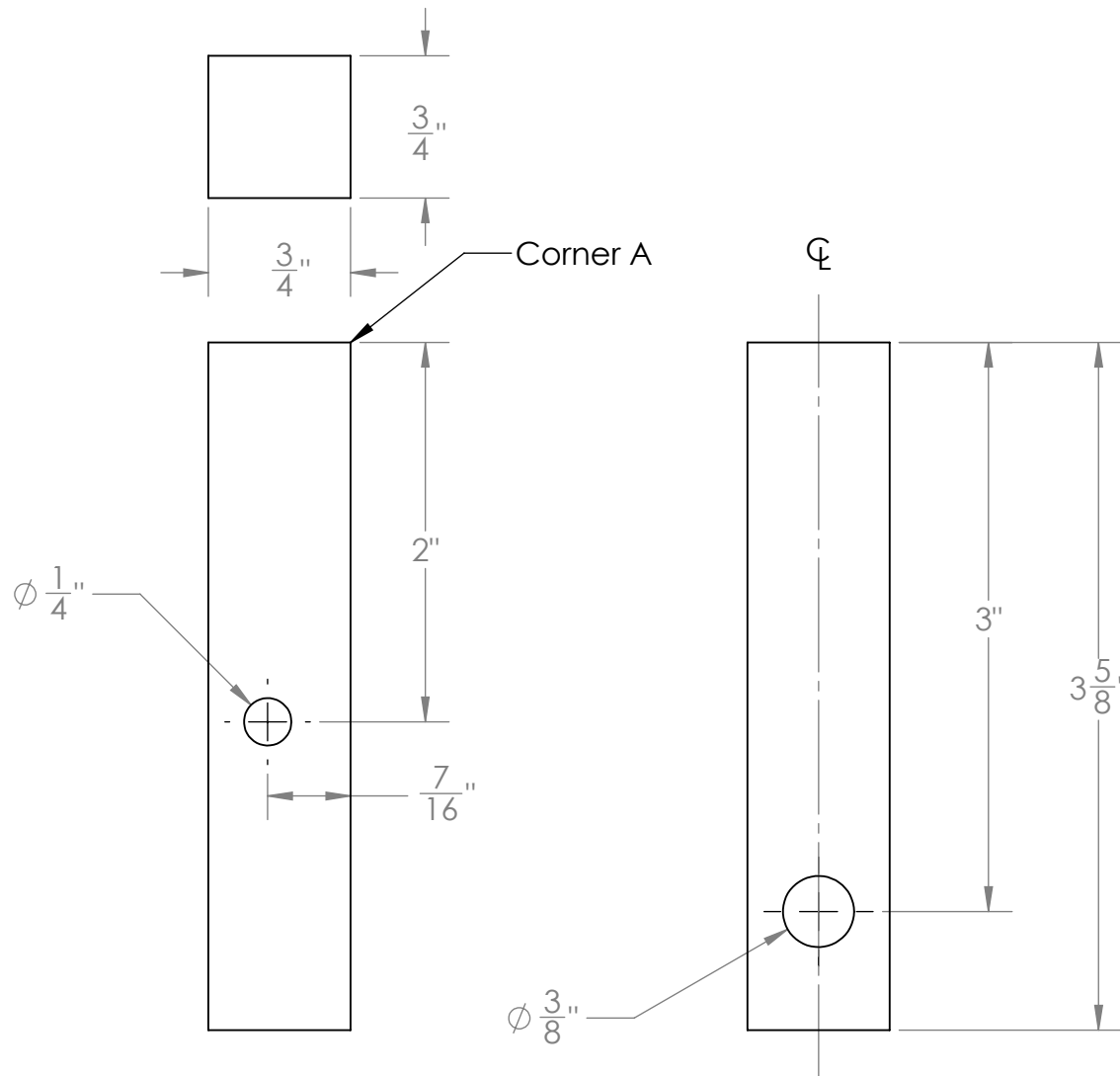


Cut from Standard 1/2in Plywood

Need 2 per mountain

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<h1>15-16 FTC DIY Field</h1> <p>TITLE:</p> <h2>DIY16 - Ball Fence</h2>
DIMENSIONS ARE IN INCHES	DRAWN	DB	8/31/15	
TOLERANCES:	CHECKED			
FRACTIONAL ±1/8	ENG APPR.			
ANGULAR: MACH ± BEND ±5°	MFG APPR.			
TWO PLACE DECIMAL ±0.010	Q.A.			SIZE DWG. NO. REV
THREE PLACE DECIMAL ±0.005	COMMENTS:			A DIY -5-3 1.1
INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:4 WEIGHT: SHEET 1 OF 1
MATERIAL				
Pine economy board				
FINISH				
Sanded & Smooth				
DO NOT SCALE DRAWING				

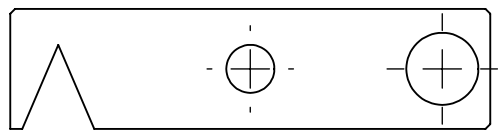
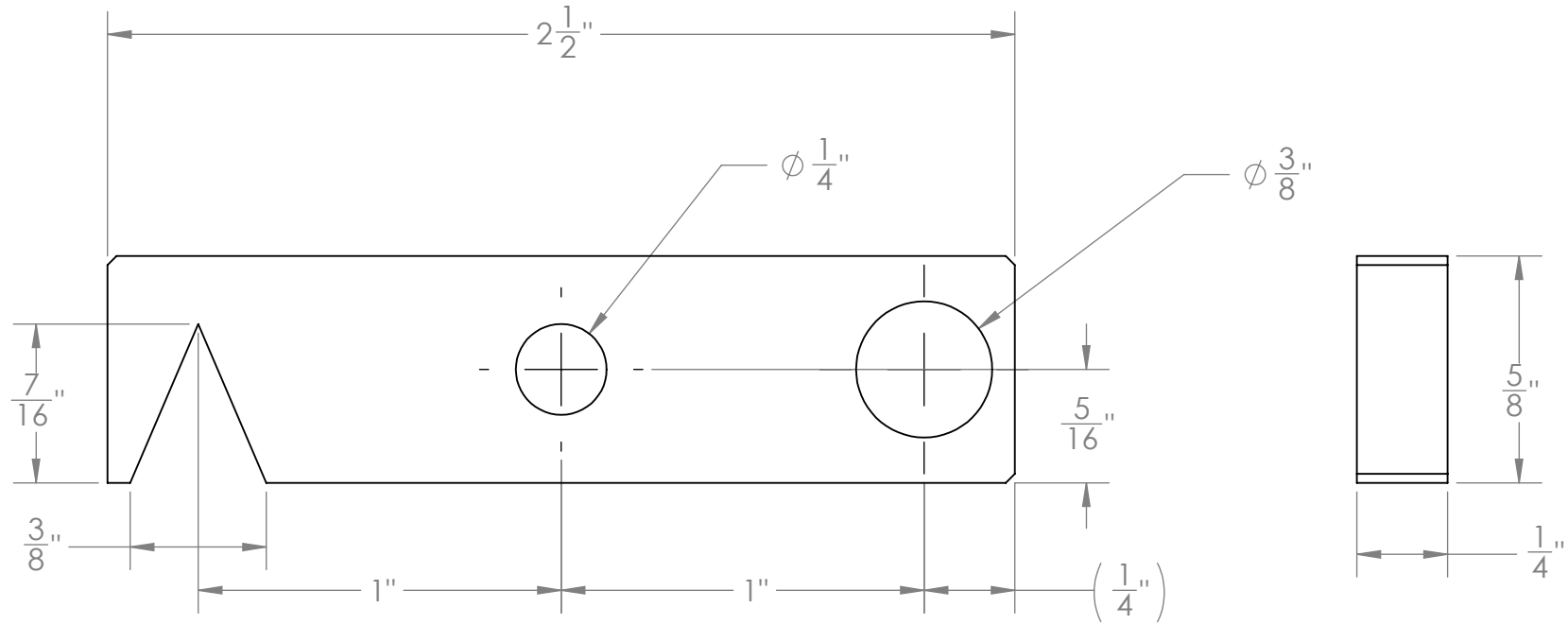
Rev	Discription of Changes
1	Original Print
1.1	Added hole for Trigger line



UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN	DB	9/4/15
TOLERANCES:	CHECKED		
FRACTIONAL ±1/8	ENG APPR.		
ANGULAR: MACH ± BEND ±5°	MFG APPR.		
TWO PLACE DECIMAL ±0.010			
THREE PLACE DECIMAL ±0.005			
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
MATERIAL	COMMENTS:		
Scrap Pine Board			
FINISH			
Sanded & Smooth			
DO NOT SCALE DRAWING			

15-16 FTC DIY Field		
TITLE:		
DIY16 - Trigger		
SIZE	DWG. NO.	REV
A	DIY -5-4	1.1
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print

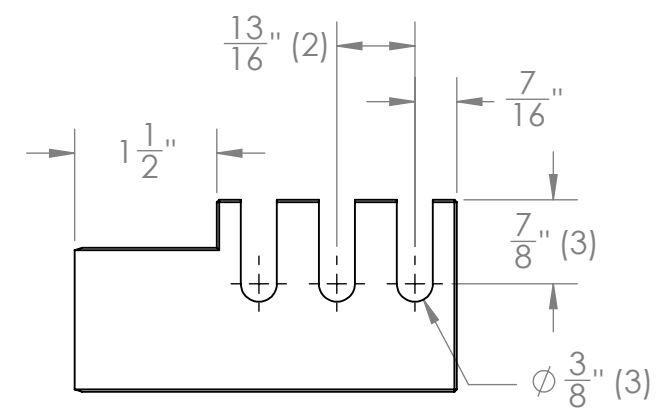
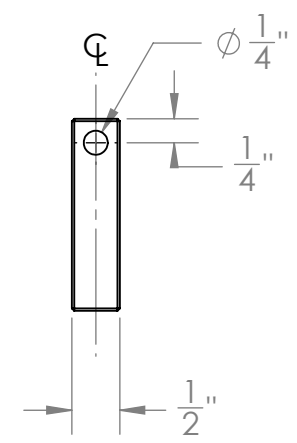
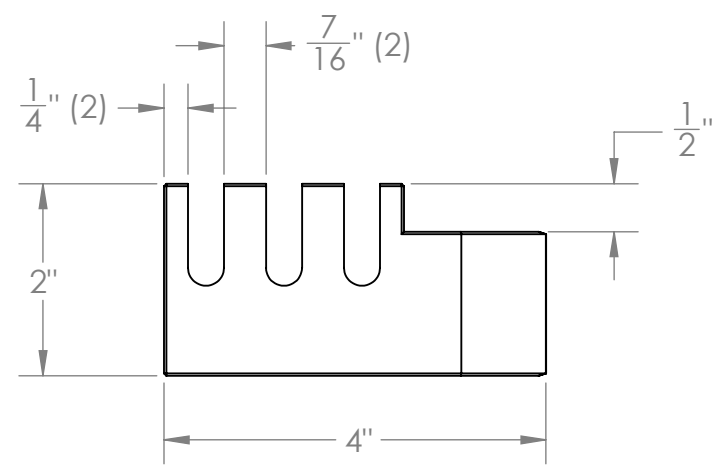
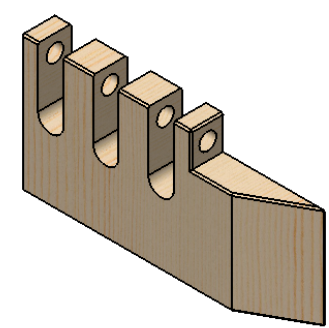
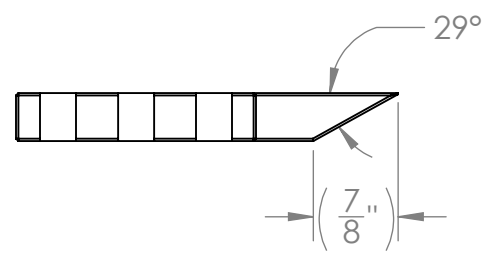


1:1 Scale

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN	DB 9/3/15
TOLERANCES:	CHECKED	
FRACTIONAL ±1/8	ENG APPR.	
ANGULAR: MACH ± BEND ±5°	MFG APPR.	
TWO PLACE DECIMAL ±0.010	Q.A.	
THREE PLACE DECIMAL ±0.005	COMMENTS:	
INTERPRET GEOMETRIC TOLERANCING PER:		
MATERIAL		
Scrap Plywood		
FINISH		
Sanded & Smooth		
DO NOT SCALE DRAWING		

15-16 FTC DIY Field		
TITLE:		
DIY16 - Zip Line Release		
SIZE	DWG. NO.	REV
A	DIY -5-5	1
SCALE: 2:1	WEIGHT:	SHEET 1 OF 1

Rev	Discription of Changes
1	Original Print



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	15-16 FTC DIY Field
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/8 ANGULAR: MACH ± BEND ±5° TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	9/3/15	
INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		DIY16 - Main Release Mount
MATERIAL Scrap Plywood		ENG APPR.		
FINISH Sanded & Smooth		MFG APPR.		A DIY -5-6 1
DO NOT SCALE DRAWING		Q.A.		SCALE: 1:2 WEIGHT: SHEET 1 OF 1
		COMMENTS:		