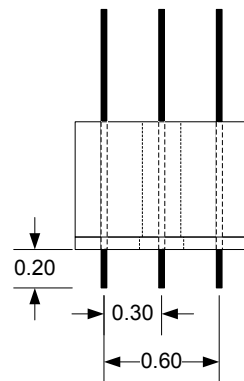
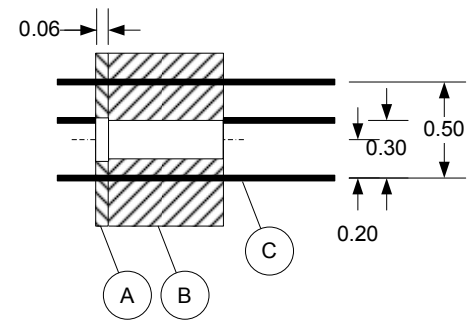
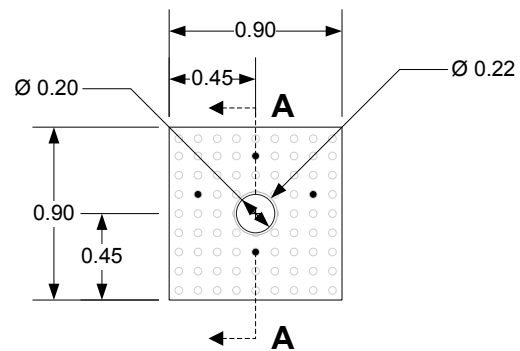


3D 8x8x8 RGB LED CUBE JIGS

CREATED BY: STEVE MANLEY
DATE: 15th JULY 2014
REVISION: 2.0
UPDATED: 26th DECEMBER 2014

JIG 01: LED LEAD FORMING JIG
JIG 02: ANODE RAIL FORMING JIG
JIG 03: ANODE RAIL EJECTOR
JIG 04: 8x8 PANEL FORMING JIG
JIG 05: HORIZONTAL ANODE LINK WIRE FORMING JIG
JIG 06: VERTICAL ANODE LINK WIRE FORMING JIG
JIG 07: CUBE CRADLE
JIG 08: 8x8 PANEL ALIGNMENT JIG
JIG 09: 8x8 PANEL HEIGHT SETTING JIG



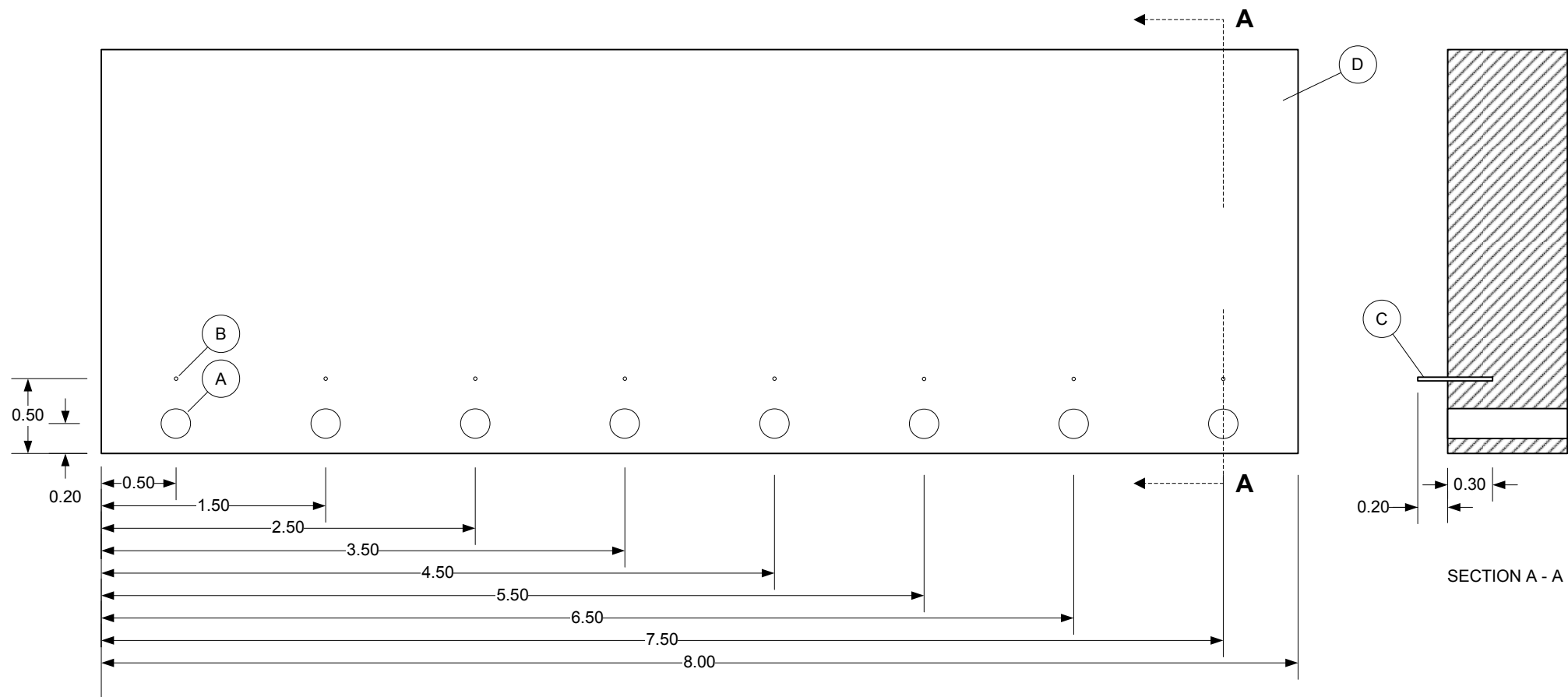
A - 0.1" PITCH 1.6mm THICK STRIP BOARD OFF CUT

B - C - MDF SKIRTING BOARD OFF CUT TYPICALLY 0.6" THICK

C - 4 OFF 0.8mm DRIP BITS

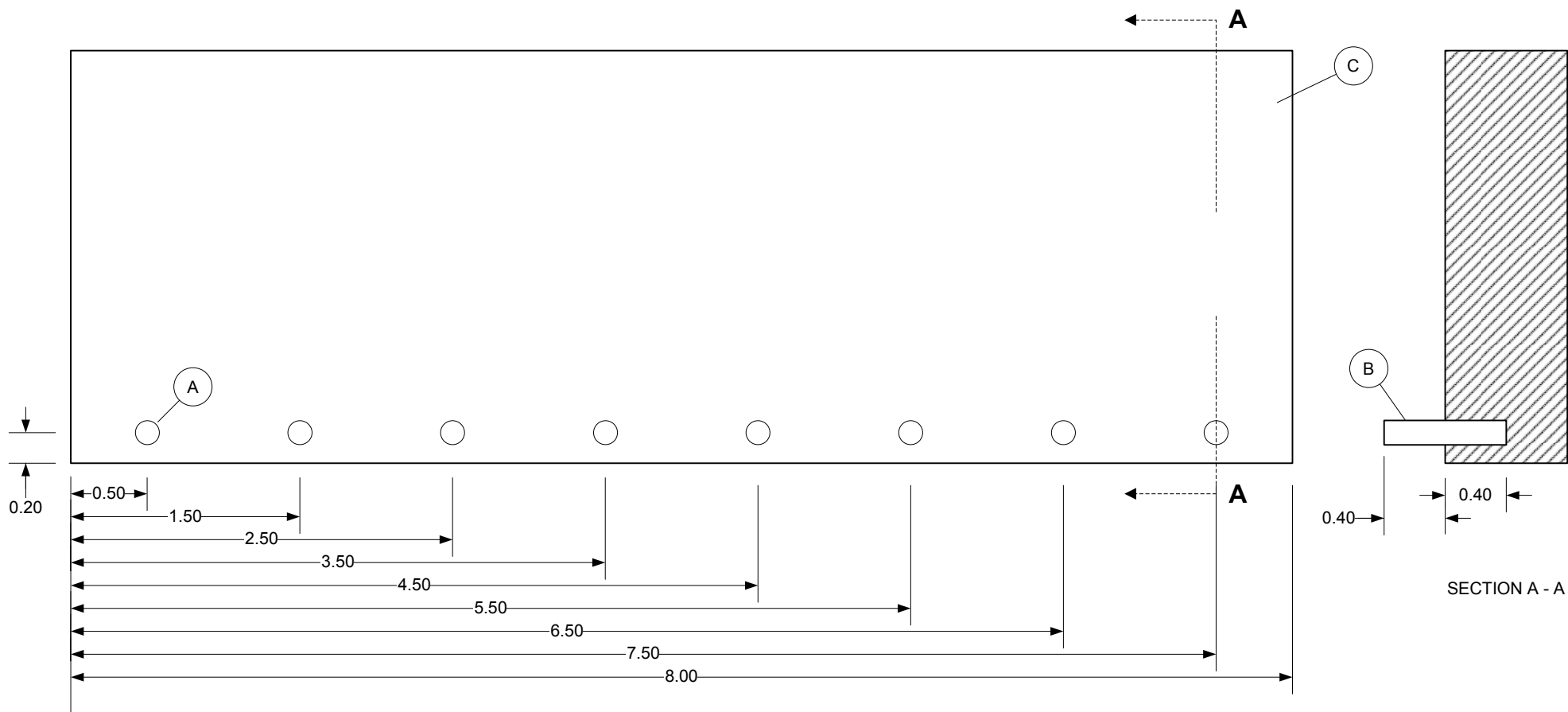
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED 1:1 SCALE

3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	5 mm RGB LED LEAD FORMING JIG	15 July 2014	SJM



- A - 8 OFF HOLES 5.0mm (0.20") DIAMETER
 B - 8 OFF HOLES 0.6mm (0.02") DIAMETER
 C - 8 OFF 0.7mm STAINLESS STEEL DRESS MAKING PINS WITH HEADS REMOVED
 D - MDF SKIRTING BOARD OFF CUT - TYPICALLY 2.6" TALL BY 0.6" THICK
 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED

3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	ANODE RAIL FORMING JIG	11 July 2014	SJM



A - 8 OFF HOLES 4.0mm (0.16") DIAMETER

B - 8 OFF 4mm DIAMETER ALUMINIUM PEGS - CAN BE METAL, WOOD OR PLASTIC

C - MDF SKIRTING BOARD OFF CUT - TYPICALLY 2.6" TALL BY 0.6" THICK

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED

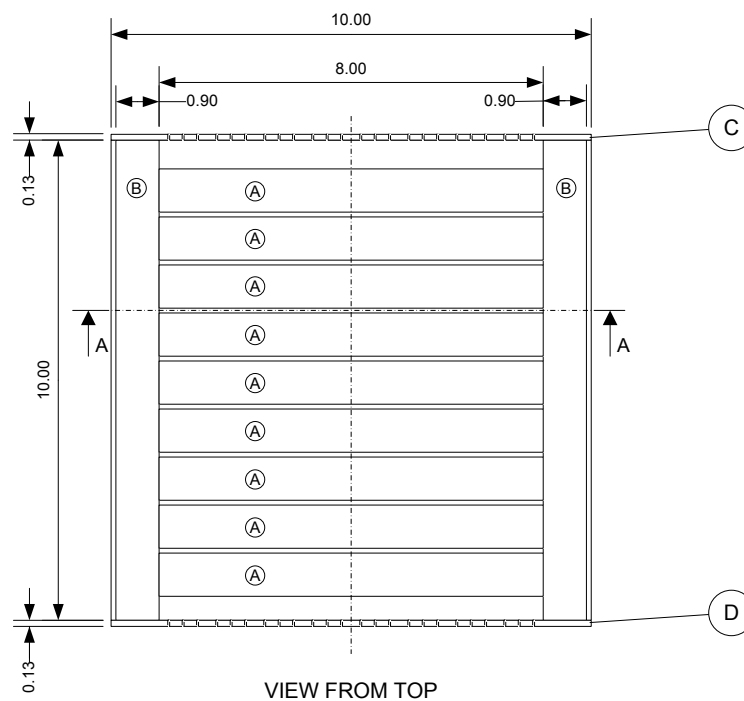
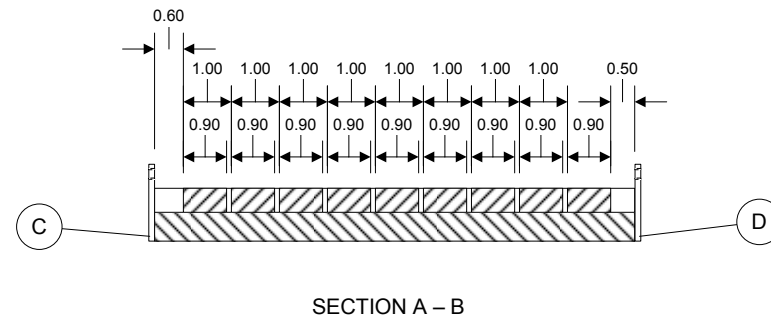
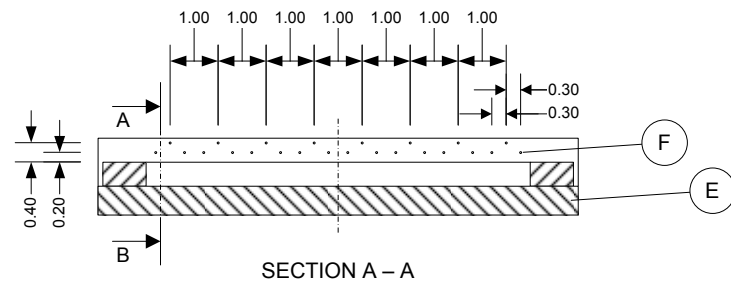
3D 8 x 8 x 8 RGB LED CUBE - By STEVE MANLEY

Rev 1

ANODE RAIL EJECTION JIG

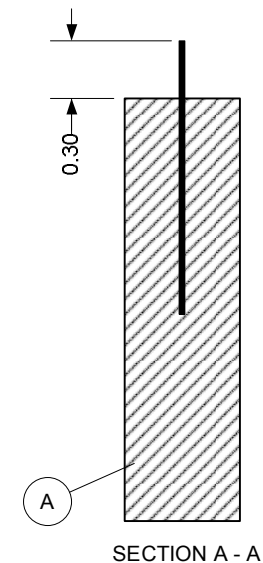
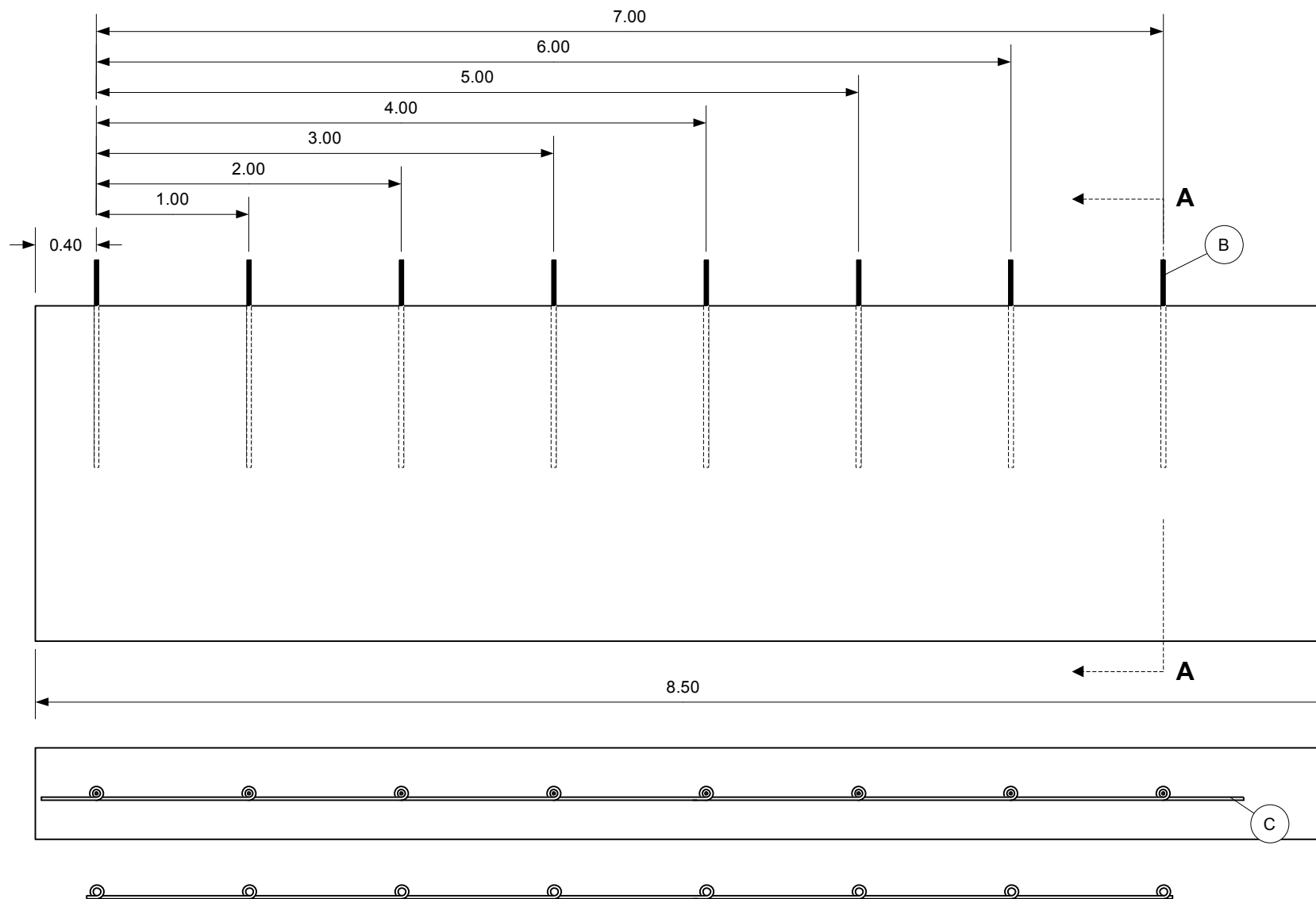
11 July 2014

SJM



- A - PINE STRIPS 0.9" WIDE, 0.45" DEEP, 8" LONG
- B - PINE STRIPS 0.9" WIDE, 0.45" DEEP, 10" LONG
- C - REAR CATHODE RAIL GUIDE PLATE
- D - FRONT CATHODE RAIL GUIDE PLATE
- F - 24 OFF 1mm HOLES IN FRONT AND REAR CATHODE RAIL GUIDE PLATES
- ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED @ 1/4 SCALE

3D 8 x 8 x 8 RGB LED CUBE - By STEVE MANLEY			
Rev 1	8 x 8 PANEL FORMING JIG	15 July 2014	SJM



EXAMPLE OF COMPLETED LINK WIRE

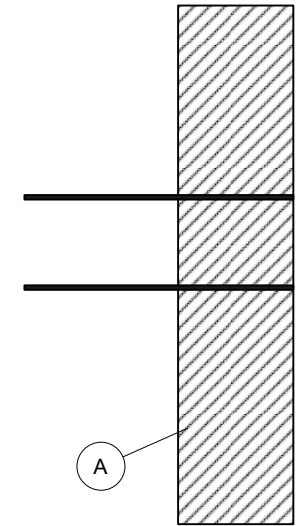
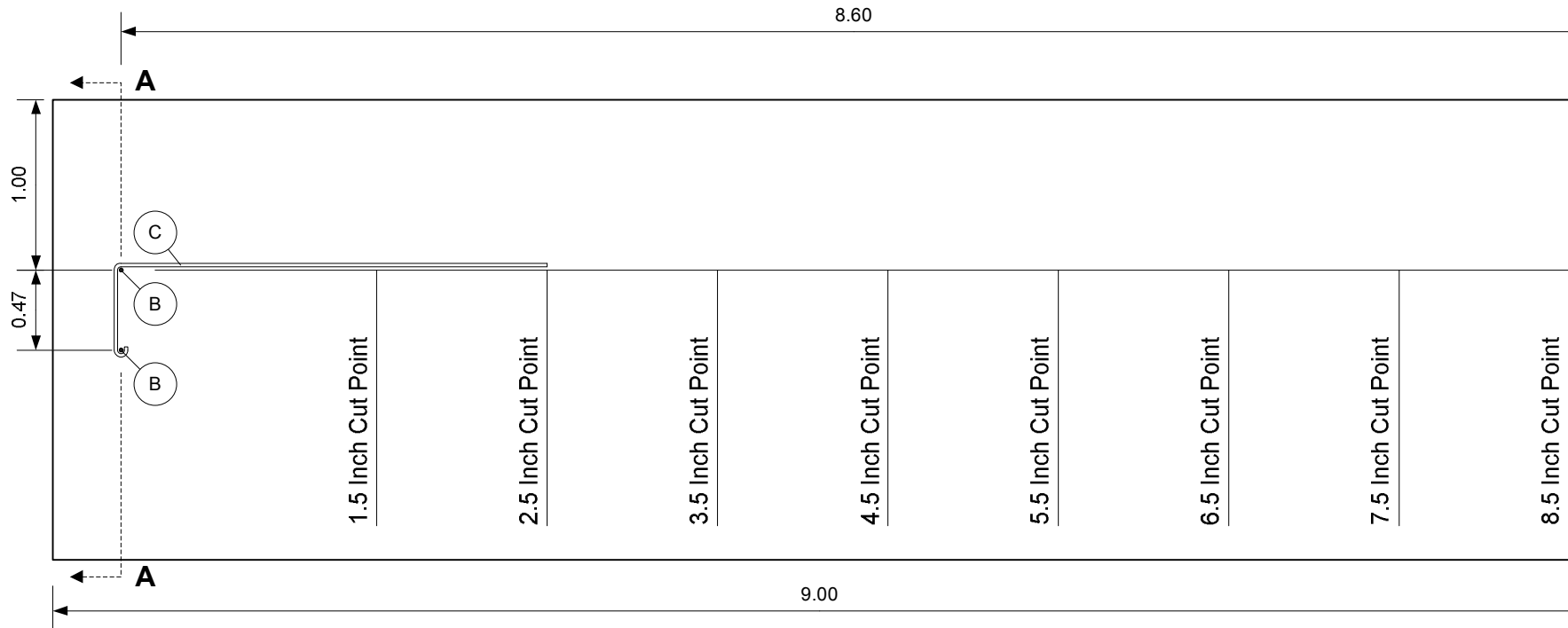
A - MDF SKIRTING BOARD OFF CUT TYPICALLY 0.6" THICK

B - 8 OFF 1mm DRIP BITS

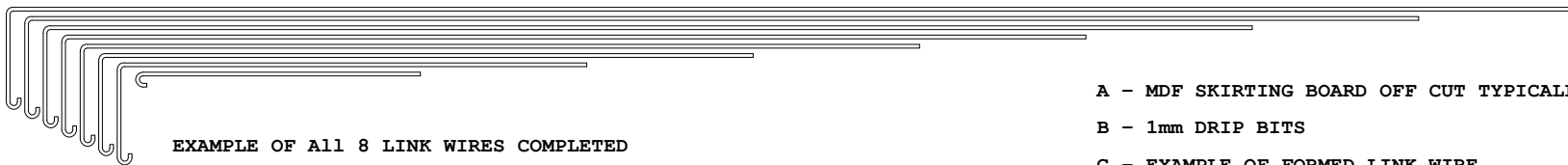
C - EXAMPLE OF LINK WIRE MOUNTED ON THE JIG

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED 1:1 SCALE

3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	HORIZONTAL ANODE LINK WIRE FORMING JIG	22 Dec 2014	SJM



SECTION A - A



EXAMPLE OF All 8 LINK WIRES COMPLETED

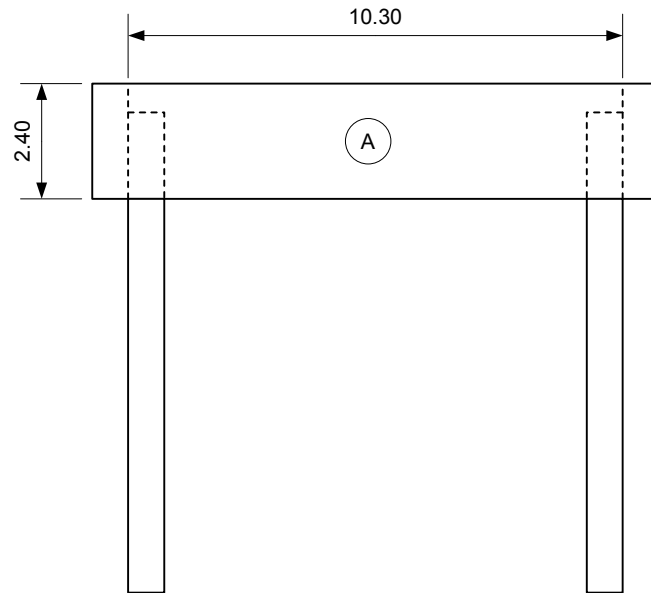
A - MDF SKIRTING BOARD OFF CUT TYPICALLY 0.6" THICK

B - 1mm DRIP BITS

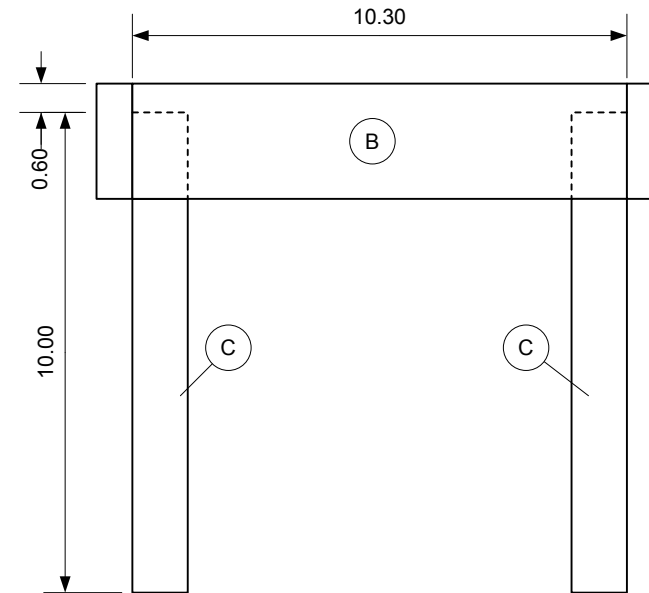
C - EXAMPLE OF FORMED LINK WIRE

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED 1:1 SCALE

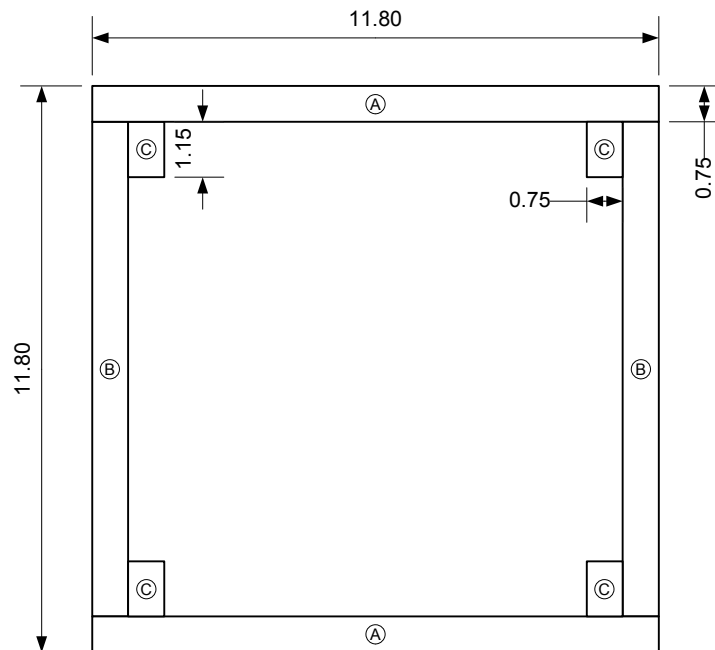
3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	VERTICAL ANODE LINK WIRE FORMING JIG	22 Dec 2014	SJM



VIEW FROM FRONT



VIEW FROM SIDE

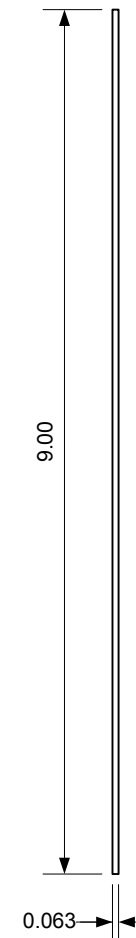
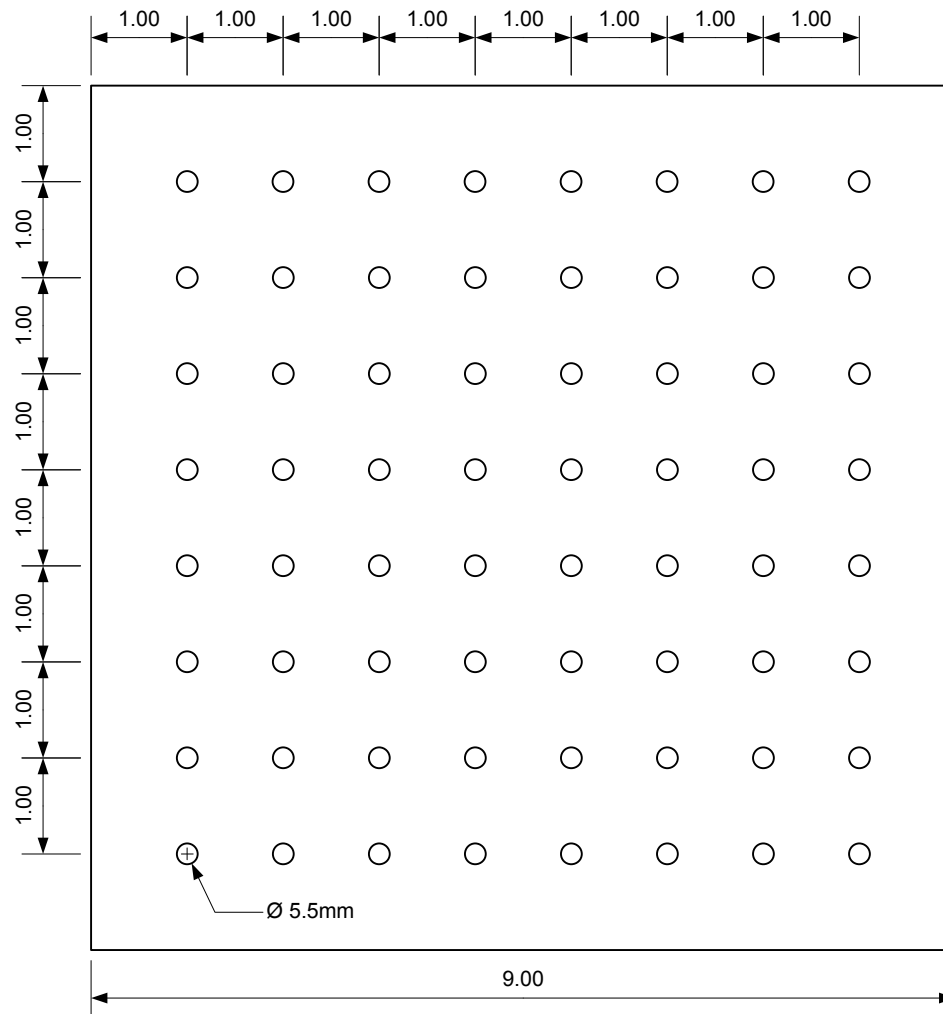


VIEW FROM TOP

A - PINE FRONT & BACK PANELS: 0.75" x 2.40" x 11.8"
 B - PINE SIDE PANELS: 0.75" x 2.40" x 10.3"
 C - PINE LEGS: 0.75" x 1.15" x 10.0"

THE A & B PANELS ARE JOINED USING DOVETAILS (JOINTS NOT ILLUSTRATED)
 EACH LEG IS ATTACHED TO THE SIDE PANELS USING 2 WOOD SCREWS (NOT SHOWN)
 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED @ 1/4 SCALE

3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	CUBE CRADLE	24 DEC 2014	SJM



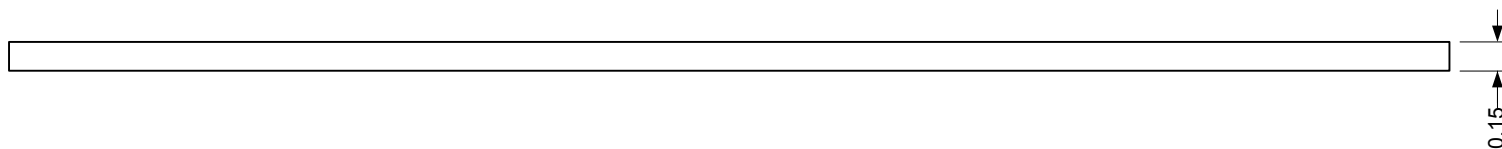
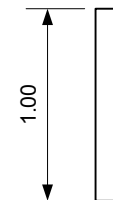
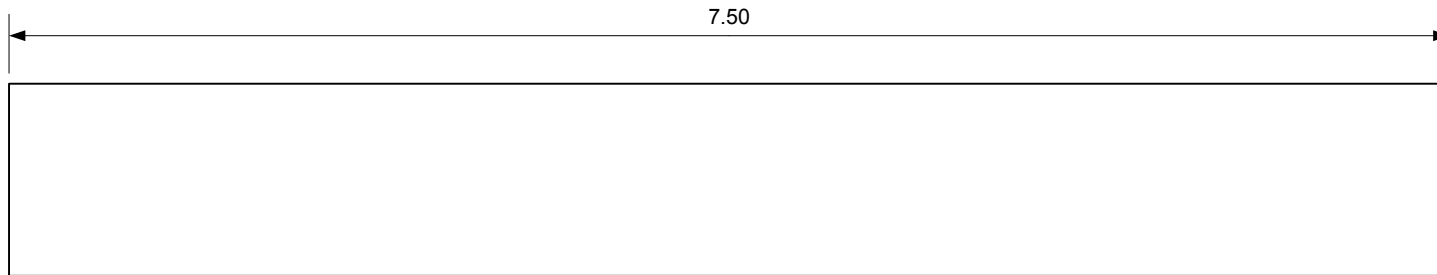
JIG MADE FROM 1.6MM CIRCUIT BOARD BUT COULD EASILY BE MADE FROM OTHER MATERIALS SUCH AS MDF OR PLYWOOD ETC.

THICKNESS OF MATERIAL IS JUST A GUIDE AND CAN BE WHATEVER IS REQUIRED

ALL HOLES ARE 5.5MM (2.165") DIA. - ADJUST DIA. TO SUIT CHOSEN LED'S

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED @ 1/2 SCALE

3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	8x8 PANEL ALIGNMENT JIG	26 DEC 2014	SJM



JIG MADE FROM A STRIP OF PINE

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED @ 1/1 SCALE

3D 8 x 8 x 8 RGB LED CUBE – By STEVE MANLEY			
Rev 1	8x8 PANEL HEIGHT SETTING JIG	26 DEC 2014	SJM