

DARRIN LANCHBURY'S ORIGINAL POLICE BOX DESIGN

EACH SQUARE IS 2" x 2".

THE 3 WALLS AND DOORS ARE MADE FROM 0.75" PLYWOOD. A 46" x 46" SQUARE OF PLYWOOD WILL ALSO BE REQUIRED FOR THE BASE.

PLYWOOD IS ALSO USED FOR THE TOP SURFACES OF THE ROOF.

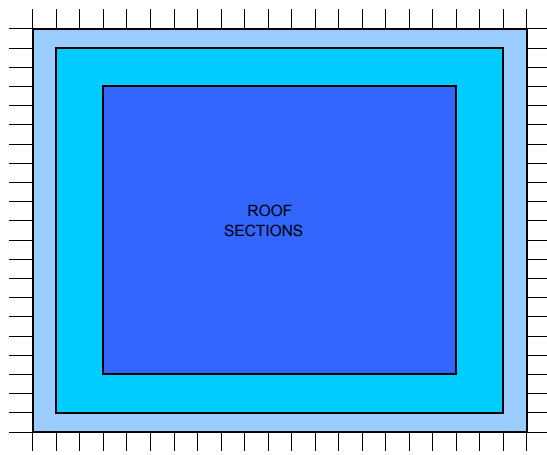
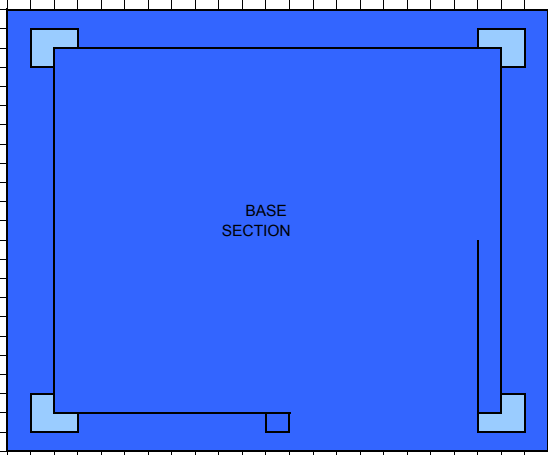
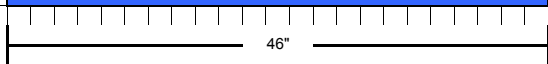
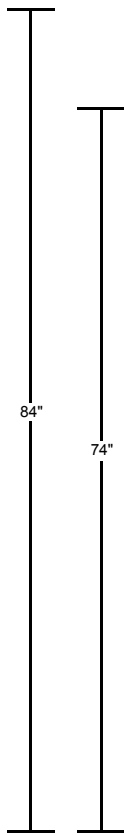
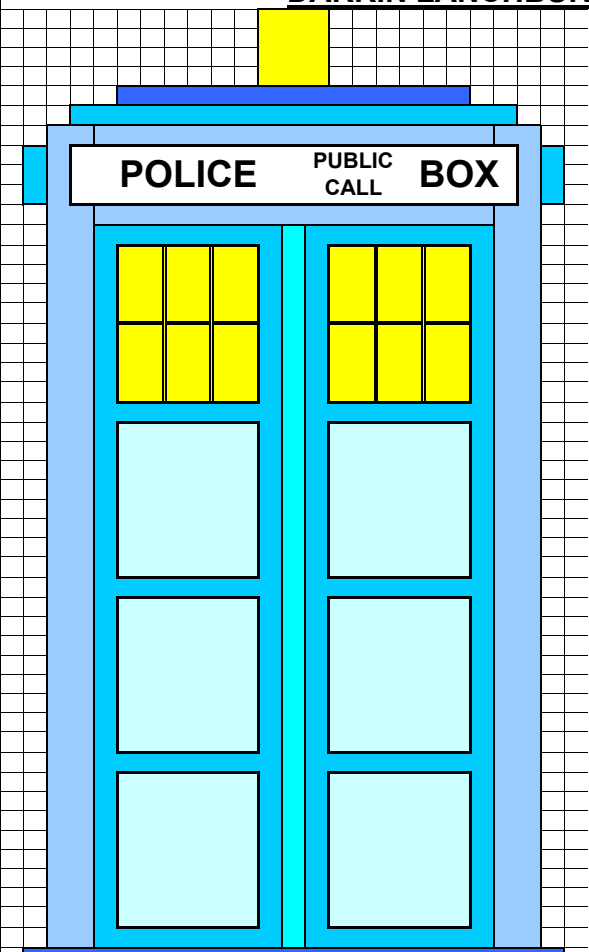
THE 34" x 10" BLOCKS BETWEEN THE POSTS ARE MADE OF 2" THICK LUMBER.

THE 4 PILLARS ARE MADE FROM 2" THICK PLANKS. EACH ONE MADE FROM A PIECE 84" x 4" x 2" JOINED TO ONE 86" x 2" x 2".

ALL OTHER LUMBER IS 0.75" THICK.

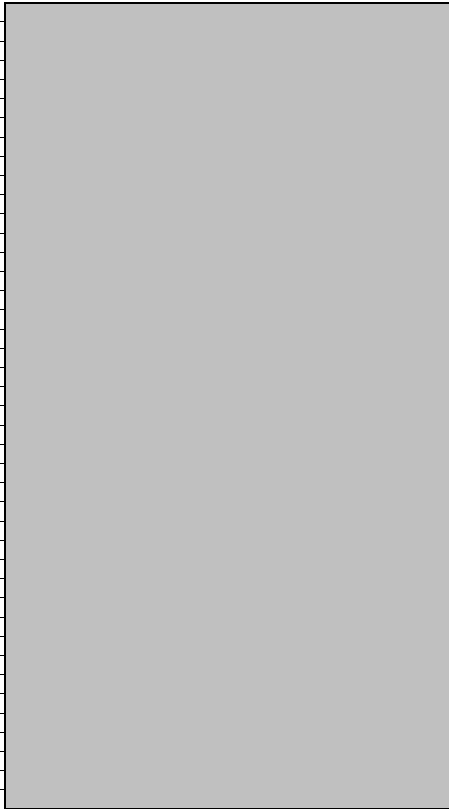
QUARTER ROUND MOLDING WAS CUT AND INSERTED INTO THE "RECESSED" PANELS AND WINDOWS.

THE "POLICE BOX" LIGHT BOXES WERE CONSTRUCTED FROM 0.75" PLYWOOD.

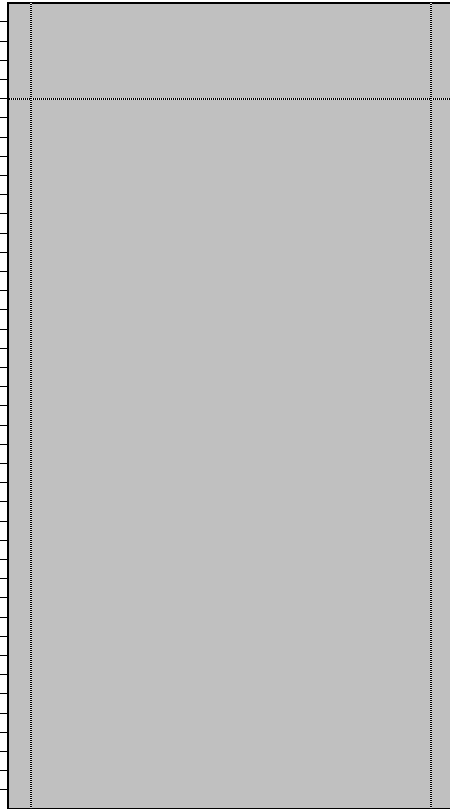


DARRIN LANCHBURY'S PLANS - LEFT & RIGHT WALL CONSTRUCTION

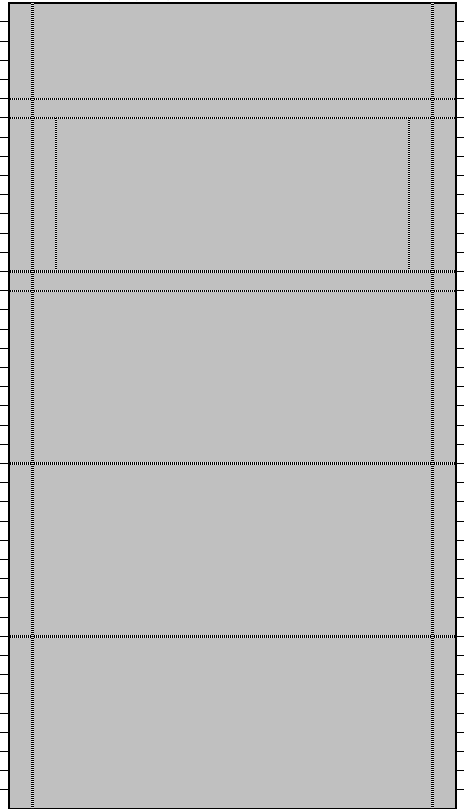
CUT 2 PIECES OF 0.75" PLYWOOD TO 84" x 38".



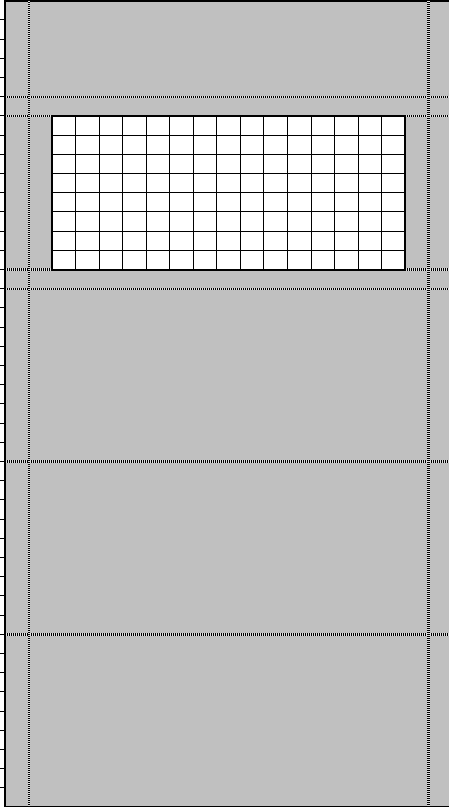
SCORE A LINE DOWN EACH SIDE 2" IN FROM THE EDGE USING A PENCIL AND A LINE 10" FROM TOP.



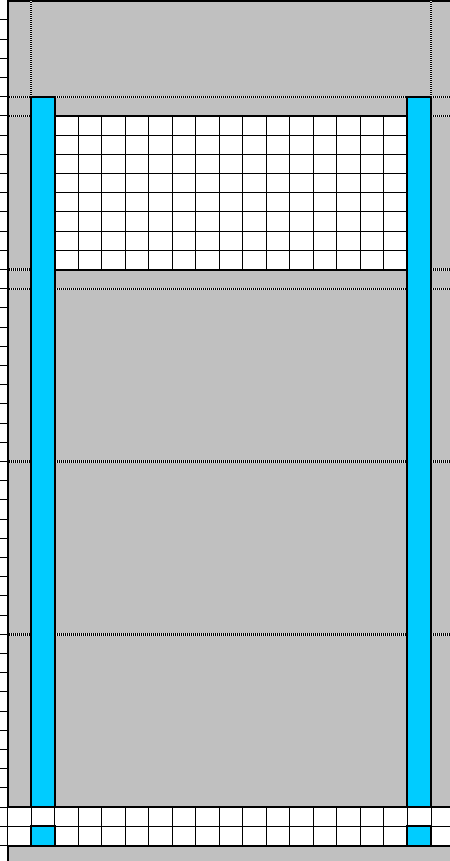
MEASURING FROM THE BOTTOM, SCORE ADDITIONAL LINES AT 18", 36", 54", 56" & 72" AND IN 4" FOR WINDOWS



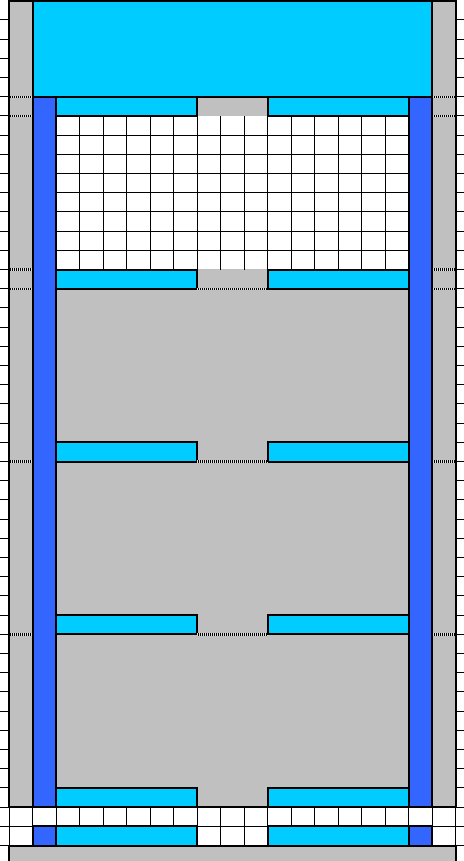
CUT OUT THE WINDOW SECTION USING A JIG SAW OR SIMILAR.



GLUE AND NAIL TWO 2" x 76" x 0.75" STRIPS FLUSH TO THE LINES DRAWN 2" IN FROM THE EDGES.



GLUE AND NAIL THE 34" x 10" x 2" PIECE AND TEN 12" x 2" x 0.75" SECTIONS WHERE INDICATED.



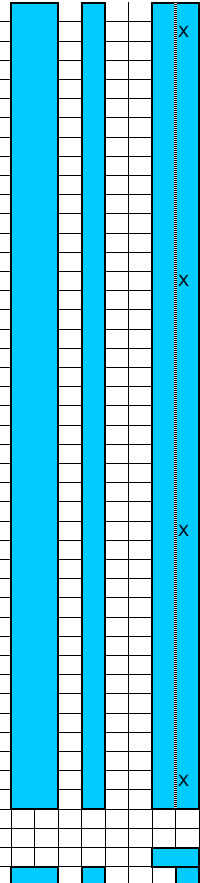
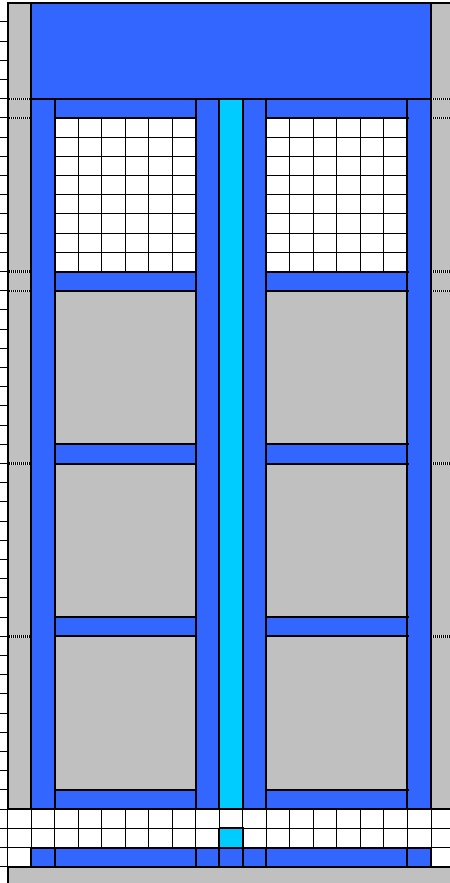
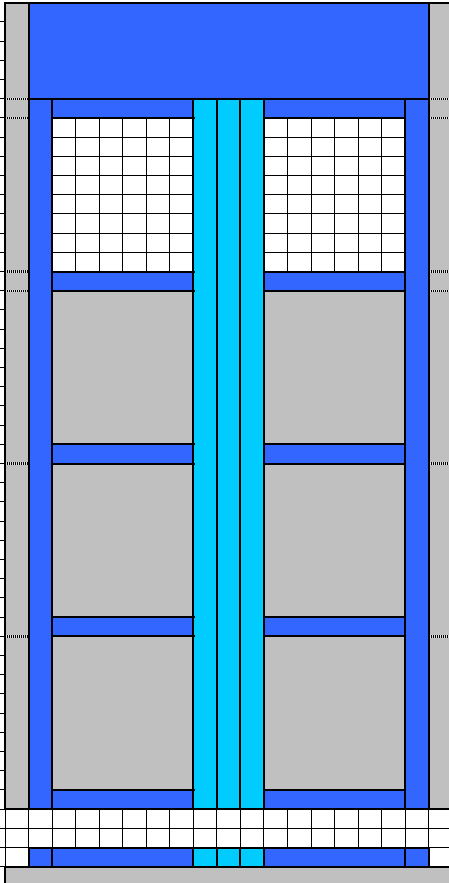
NOTE: THE WOOD THICKNESS IS EXAGGERATED IN THESE DIAGRAMS. EACH LAYER IN THE CROSS SECTION IS ONLY 0.75" THICK AND NOT 2" AS THE SCALE SUGGESTS.

DARRIN LANCHBURY'S PLANS - LEFT & RIGHT WALL CONSTRUCTION

GLUE AND NAIL TWO 2" x 76" x 0.75" STRIPS FLUSH TO THE 12" LONG PIECES & CENTER STRIP.

FINALLY ATTACH ANOTHER CENTER STRIP OVER THE FIRST CENTER STRIP 2" x 76" x 0.75".

NOW MAKE FOUR POSTS BY TAKING A 84" x 4" x 2" PLANK AND SCREWING A 84" x 2" x 2" PIECE TO IT.



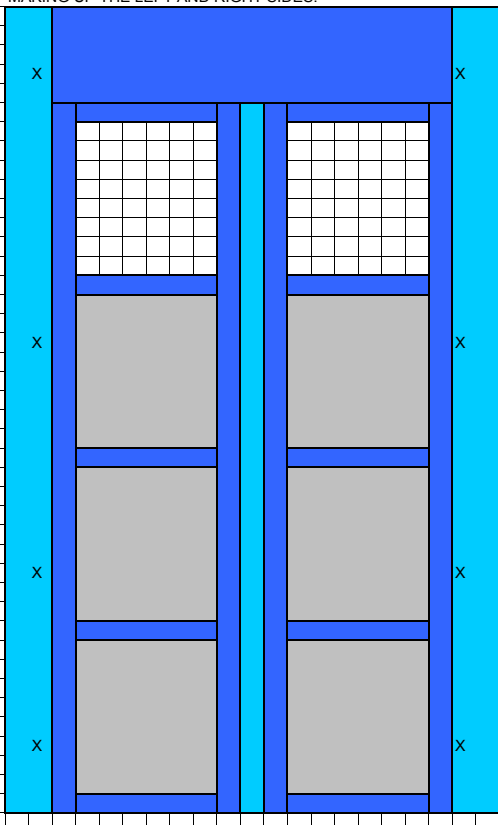
GLUE JOINT DOWN LENGTH AND THEN SCREW PIECES TOGETHER FOR EXTRA STRENGTH. NAILS CAN BE USED TO HOLD WOOD IN PLACE WHILE SCREWS ARE INSERTED.

"X" INDICATES GOOD SCREW POSITIONS.

COUNTER-SINK THE SCREW HOLES SO THAT THE AREA OVER THE SCREW HEAD CAN BE FILLED IN LATER. USE A 3" SCREW TO ENSURE A GOOD HOLD.

ATTACH TWO OF THE COLUMNS TO THE PANELS MAKING UP THE LEFT AND RIGHT SIDES.

USE GLUE DOWN THE JOINT AND THEN INSERT FOUR 2" SCREWS TO ADD STRENGTH. INSERT THE SCREWS FROM THE REAR SO THAT THEY PASS THROUGH THE 0.75" PLYWOOD AND INTO THE 2" THICK COLUMN WITHOUT GOING ALL THE WAY THROUGH.



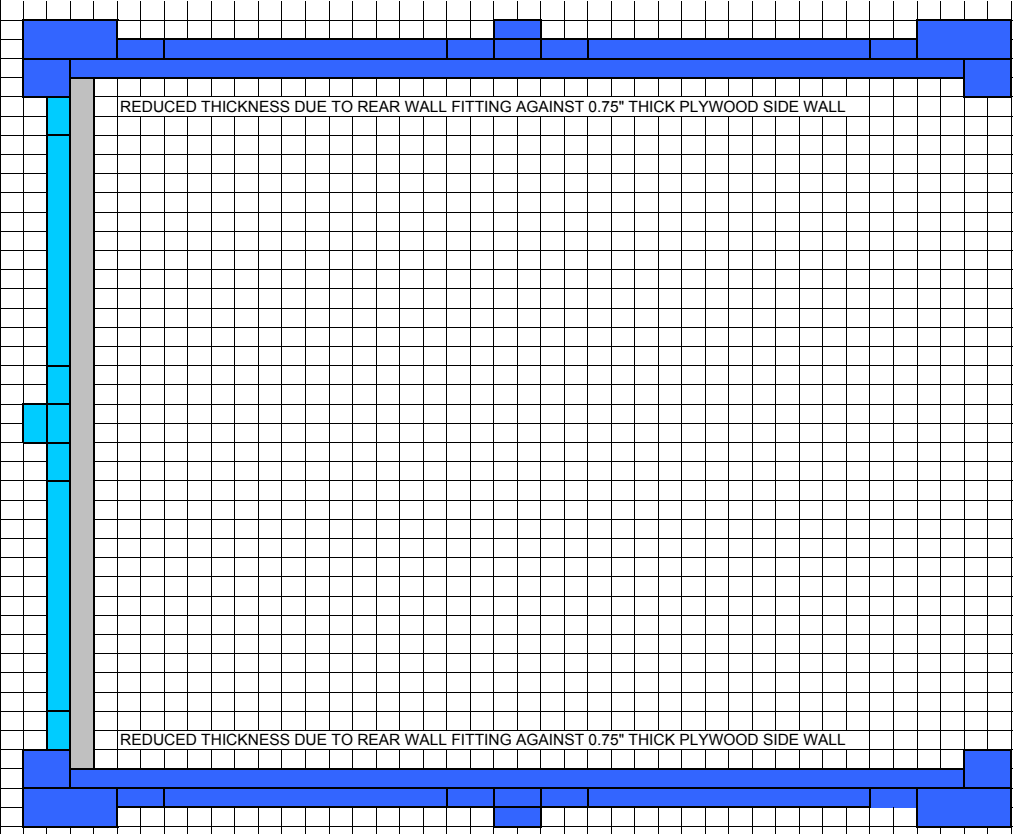
THE ABOVE CROSS SECTION SHOWS THE LEFT HAND COLUMN FITTED TO THE WALL SECTION.

NOW QUARTER ROUND THE PANELS AND WINDOWS (THE QUARTER ROUND IN THE WINDOWS WILL HOLD THE GLASS/PERSPEX IN PLACE).

NOTE: THE WOOD THICKNESS IS EXAGGERATED IN THESE DIAGRAMS. EACH LAYER IN THE CROSS SECTION IS ONLY 0.75" THICK AND NOT 2" AS THE SCALE SUGGESTS.

DARRIN LANCHBURY'S PLANS - REAR WALL CONSTRUCTION & ASSEMBLY

THE REAR WALL IS CONSTRUCTED IN EXACTLY THE SAME WAY AS THE SIDE WALLS WITH ONE IMPORTANT DIFFERENCE. THE PLYWOOD IS EXACTLY 1.5" NARROWER. THIS IS BECAUSE THE REAR WALL WILL BE FITTED BETWEEN THE TWO SIDE WALL PANELS. AS THE PLYWOOD FROM THE SIDE PANELS IS 0.75" THICK THEN THEN REAR PANEL WILL NEED TO BE $2 \times 0.75" = 1.5"$ LESS IN WIDTH.



TO ASSEMBLE THE WALLS, STAND ONE SIDE PIECE UPRIGHT ON A FLAT SURFACE THEN POSITION THE REAR WALL TIGHT AGAINST THE SIDE PIECE AND INSERT A SCREW THROUGH THE PLYWOOD OF THE REAR WALL AND INTO THE COLUMN.

THE SECTION SHOULD NOW BE ABLE TO STAND UPRIGHT WITHOUT SUPPORT.

REPEAT THIS FOR THE OTHER WALL AND PLACE JUST ONE SCREW AT THE TOP.

IF POSSIBLE, USE LARGE CLAMPS TO FORCE THE SIDES OF THE TARDIS TIGHT AGAINST THE REAR WALL AND THEN INSERT FOUR MORE SCREWS DOWN EACH SIDE OF THE REAR WALL.

IF YOU DO NOT INTEND TO DISASSEMBLE THE TARDIS AGAIN THEN USE GLUE DOWN THE JOINS BEFORE INSERTING THE SCREWS.

REMEMBER!

THE REAR BOARD IS ONLY 82.5" WIDE AND THE LINES DRAWN DOWN THE LENGTH OF THE BOARD ARE ONLY 1.25" FROM THE SIDE AND NOT 2" AS PER THE SIDE WALLS.

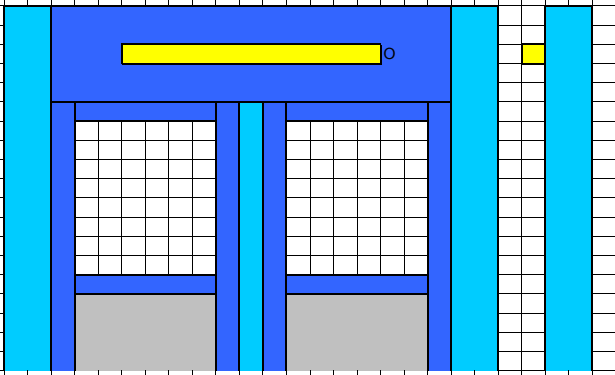
1.25"

82.5"

1.25"

DARRIN LANCHBURY'S PLANS - LIGHT BOXES

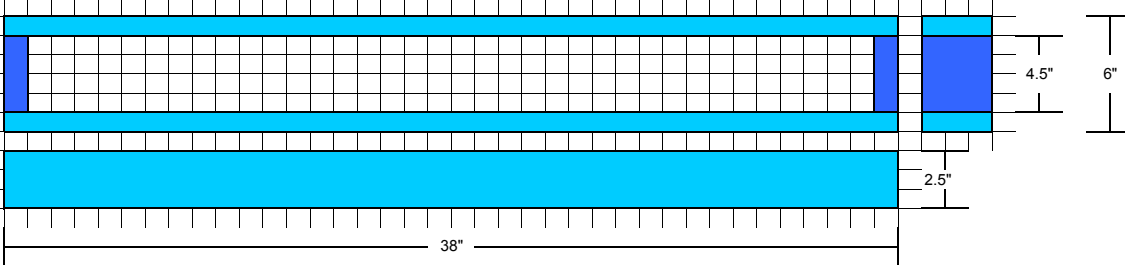
THE FOUR LIGHT BOXES WERE CONSTRUCTED DIFFERENTLY FROM WHAT WAS ORIGINALLY PLANNED DUE TO THE "POLICE BOX" SIGNS BEING MADE LARGER THAN ORDERED.



I BOUGHT FOUR 24" LONG STRIP LIGHT UNITS AND MOUNTED THEM ON THREE ASSEMBLED WALLS IN THE CENTER OF THE 34" x 10" x 2" BLOCKS. TO DO THIS, INSERT TWO SMALL SCREWS INTO THE WOODEN BLOCK (PROVIDED IN LIGHTING KIT) TO ALIGN WITH THE FIXTURE HOLES ON THE BACK OF THE LIGHTING UNIT. THEN PUSH THE LIGHTING UNIT ONTO THE SCREWS SO THAT THEY PASS THROUGH THE HOLES ON THE BACK AND SLIDE THE UNIT TO THE SIDE TO LOCK IT IN PLACE.

NOW BORE A HOLE THROUGH THE WOODEN BLOCK SO THAT YOU CAN PASS THE POWER LEAD FOR THE LIGHTING UNIT INSIDE THE TARDIS.

THE ORIGINAL PLAN FOR THE LIGHT BOXES WAS TO MAKE FOUR WOODEN FRAMES OUT OF 0.75" PLYWOOD AS FOLLOWS:



USE GLUE ON THE JOINTS AND THEN NAIL THE SECTIONS TOGETHER.

I ORDERED FOUR PLASTIC "POLICE PUBLIC CALL BOX" SIGNS FROM A LOCAL COMPANY TO BE INSERTED INTO THE 4.5" x 36.5" GAP INSIDE THE FRAME AND PLANNED TO USE A THIN WOODEN FRONT ATTACHED TO THE OUTSIDE AND SOME THEN WOODEN TRIM ON THE INSIDE TO HOLD THE SIGNS IN PLACE.

HOWEVER, WHEN THE SIGNS CAME BACK, THEY HAD BEEN MADE 6" x 38" (THE SIZE OF THE COMPLETE FRAME) AND AS TIME WAS PRESSING, WE DECIDED TO MODIFY THE DESIGN.

WE DECIDED TO WEATHERPROOF THE BOXES BY USING THIN ALUMINIUM SHEETING. MY FRIEND HAS AN ALUMINIUM SHEET BENDING AND CUTTING MACHINE IN HIS WORKSHOP (I WOULDN'T TRY THIS OTHERWISE). WE CUT 4 PIECES FOR EACH BOX - TWO 6" x 3.5" AND TWO 38" x 3.5" SHEETS. A RIGHT ANGLE CREASE WAS PLACED ON ALL 4 PIECES TO GIVE THEM A 0.75" L-SHAPED LIP WHICH FITTED AROUND THE FRONT OF THE LIGHTING BOX AND HELD THE PERSPEX SIGN IN PLACE.

HERE IS A SIDE VIEW SHOWING THE TOP & BOTTOM ALUMINIUM STRIPS IN PLACE, AND A FRONT VIEW SHOWING ONE END WITH ALL FOUR STRIPS IN PLACE.



ONCE PAINTED, THE ALUMINIUM WILL LOOK JUST LIKE THE WOOD.