

## Santa Fe Depot

### Instructions for Assembly of the N scale kit

v1.1



#### Kit Contents:

98 ea. Laser cut .060" acrylic parts  
Printed window shades  
Window glazing  
1 ea. 10" x .020 wire  
Instructions with diagrams

Thank you for purchasing this kit. Please read these instructions completely before beginning and take your time. Allow parts to dry after painting or gluing and do not try to build this in one day.

Drawings of all the parts have been included for ease of part identification.

Practice gluing the acrylic together if you have never done it before.

It is a good idea to dry fit (test fit without glue) all the parts prior to assembly. Some of the parts fit behind others, so the order of assembly is critical.

If by chance a part is missing or broken, please write (email: [info@cmrtrain.com](mailto:info@cmrtrain.com)) us indicating the scale, kit name and part number and we will send you a replacement.

Please note that parts of the kit have been painted gray in the assembly photos so that new parts can easily be seen and identified. This is only for ease of identifying parts and seeing them clearly in the photos. We recommend gluing all parts together prior to painting unless otherwise noted. If the parts are glued together after painting the painted area should be scraped or sanded to remove the paint and expose the plastic.

Pre-production models were used in these instructions, your parts may vary slightly.

You will need the following items to assemble your model: Hobby knife, fine sand paper, file, paint (see "Painting Your Model"), razor saw, paint brushes, glue (see "Gluing Acrylic"), modeling putty.

## About the Kit

Our kit is based on an Art Deco style depot built in 1934 by the AT&SF. It was serviced by the Texas Chief line. Our model is not intended to be an exact replica but rather a very good representation. The station has a main building that served as a ticket office and waiting room. There is also an annex on the side for REA or freight.

The model includes blank walls without the Santa Fe lettering engraved on them so if you want to make it something else like a library, theater or government office you can do so.

Parts are labeled in the instructions inside parentheses. Parts with an engraved letter on them should always be facing up during construction unless noted.

Some parts have engraved details on them. Be sure that these are facing out or up (unless otherwise noted) when gluing the parts together. It is easy to install these backwards by mistake.



## **Adhesives**

### *Gluing Acrylic*

Always glue acrylic in a well-ventilated area, and read the glue manufacturer's label for instructions.

We recommend using Scalecoat brand "Probond," Plastruct brand "Bondene Solvent Cement" or "Plastic Weld Cement." Most hobby shops carry these products. Or they may be ordered directly from the manufacturer.

Acrylic must be glued together using a solvent that will melt the two edges and literally fuse them together. To do this, place the two pieces to be joined together and run a bead of solvent down the edge. Capillary action will suck the solvent into the joint and after several seconds the pieces will be fused. After only a few minutes the pieces will be strong enough to work with. The bond will be completely dry within twenty-four hours using the above-mentioned products.

Solvent can be dispensed two ways.

Typically the solvent comes in a small bottle with a brush in the lid. The brush allows you to dispense a drop or two of solvent at a time.

You may want to use a polyethylene bottle or syringe with a blunt needle dispenser. This allows larger amounts of solvent to be dispensed quickly and cleanly. Be sure the bottle you are using is approved for the solvent you are using or you may melt through it. These bottles may be purchased from CMR.

### *Cyanoacrylate (CA) Super Glue*

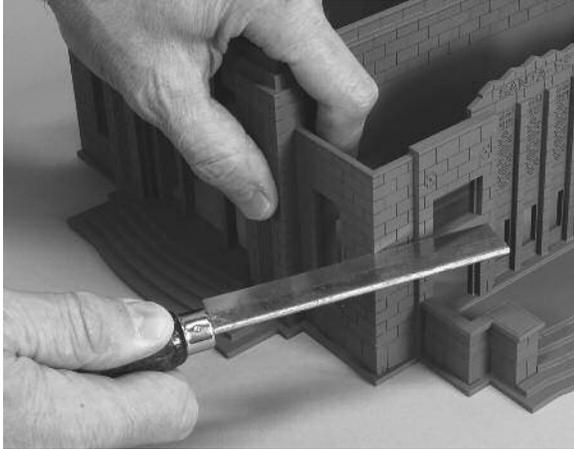
Parts that are not plastic or are painted prior to gluing must be glued together using a non solvent based glue. This means the parts are held together by the glue and not the process of fusing or welding them together with solvent. For this we recommend using CA where noted in the instructions.

### *Craft Glue*

Some parts are easier to glue using craft glue such as "Sobo." We use craft glue to stick previously painted parts together when we want a little working time.

## Preparing Your Model for Painting

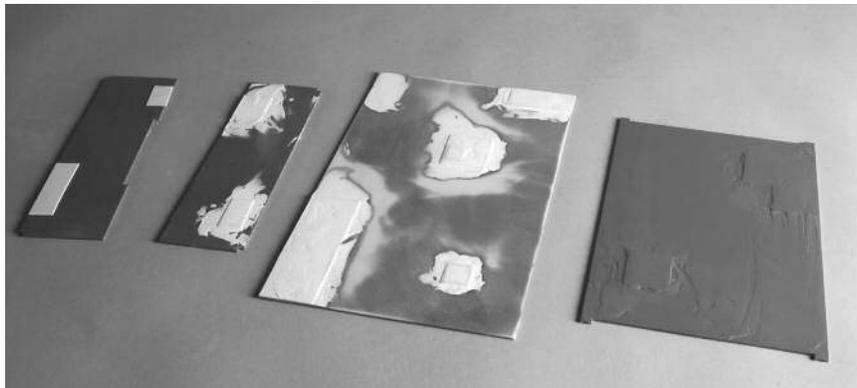
We recommend lightly sanding all parts to remove the raised edge created during the laser cutting process with 300 grit sandpaper on a block or using a palm sander for larger parts. In order to hide the seams we recommend using “hobbyist putty” such as Squadron modeling putty. Do this in a very well-ventilated area. Apply the putty over the seams and allow to dry overnight. Once the putty has dried, use a sanding block with 300 or higher grit sand paper and sand smooth. You may need to apply a second coat of putty and sand again.



You may choose to “wrap” the engraved lines around the corners with a small triangular jewelers file or a razor saw.

Often times you do not see flaws until after you have primed. In this case let the primer completely dry and repeat the process of putty, sanding and cleaning up the engraved lines. Then spot prime the areas you have worked on. Be careful not to apply too much paint so as not to fill in the engraved details.

If the building has flat roofs we like to make these look a bit used by adding some patches. Cut squares of .010 or .020 styrene and glue them to the roof parts. Then apply modeling putty over the patches and even over the entire roof using a small putty knife. Allow this to dry and then sand back to almost flat. This creates a very realistic looking tar or rubber roof. Prime and paint black. You can do this all prior to installing the roof on the building.



## **Painting Your Model**

We assembled all the wall parts into their units prior to painting. Once assembled the units were primed with Krylon Gray Spray Primer. Then they were top coated with acrylic hobby paints. We painted the stone a neutral buff and then hand painted various stones slightly different colors. We painted the base layer of stones a dark gray. Then we weathered the structure with a mixture of dry brushing, washes and airbrushing. We weathered it fairly heavy, as the original is, with lots of soot, grime and water damage.

The window frames were primed with Krylon Gray Spray Primer. Then top coated with Krylon Metallic Silver spray paint. The doors were then hand painted brown with acrylic hobby paints.

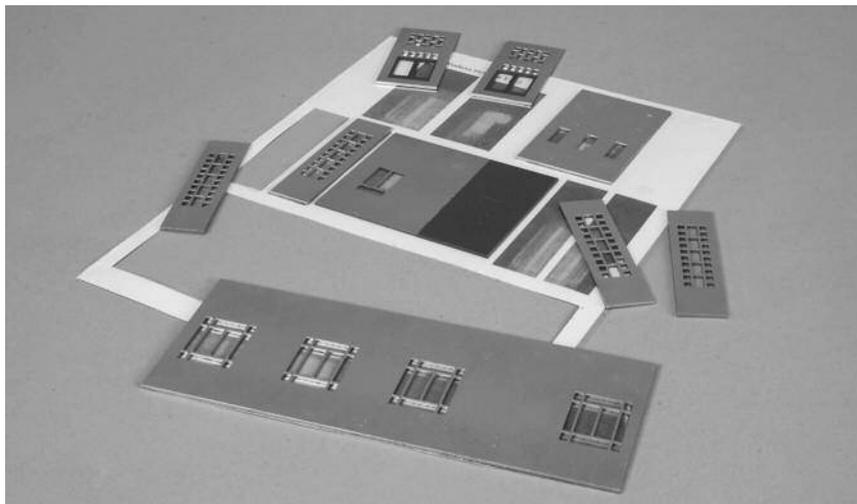
The roof parts were primed with Krylon Gray Spray Primer. Then top coated with flat black acrylic hobby paints.

## **Window Glass**

There are printed window shades included with your kit. These are designed to be laminated with the included acetate sheets then glued to the acrylic window frames prior to installing in your model.

Prime and paint the window frames. Lightly spray glue the window shade pages on the printed side with spray mount and apply a sheet of acetate to them. Press in place. We used 3M Spray Mount part number 6065 which is available at craft and office supply stores. Glue these to the back of the window frames using super glue (CA). The engraved side of the window frame should be facing out.

It is recommended to lightly spray the back of the window shade pages with a clear sealer such as matte spray. This will keep the paper from buckling due to changes in humidity.



## Assembly of the Depot

There are two units to this structure. The main station and the annex. Parts for the main station are labeled with an (A) and parts for the annex with a (B). We will begin with construction of the station and then move on to the annex.

Note that we have labeled one side as the “Street Side” and the other as the “Track Side” for reference. The building gets moved around in the figures so this should help with orientation. The base (A) is also labeled with these references.

Lay part (A) on your work surface with the engraved letters facing up. Insert the tabs on parts (A-1) x2, (A-2) and (A-3) into the slots in the Base (A) and glue in place. Glue the walls to each other as well. Make sure the engraving is facing out on all the parts. Check that all the tabs are seated properly and that the assembly is square. See Figures 1 and 2

On the Street Side glue part (A-4) flush on the bottom and centered left to right on part (A-1). Glue parts (A-5) x2 on either side. Make sure the engraving is facing out on all the parts. Be sure the parts are square and the corner is tight.

On the track side glue part (A-4) flush on the bottom and centered left to right on part (A-1). Glue parts (A-6) x2 on either side. Make sure the engraving is facing out on all the parts. Be sure the parts are square and the corner is tight. See Figure 3

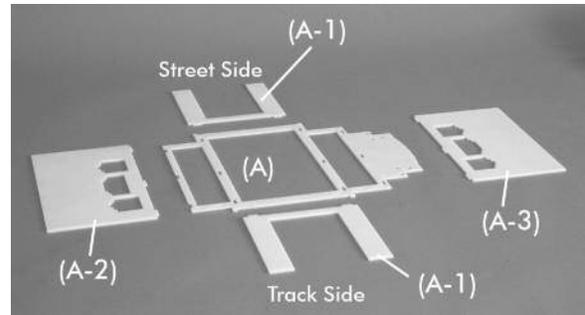


Figure 1

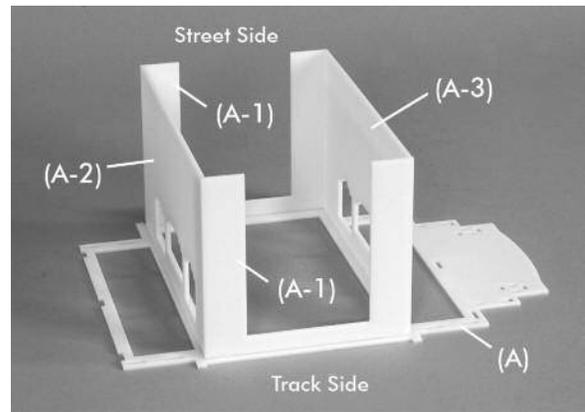


Figure 2

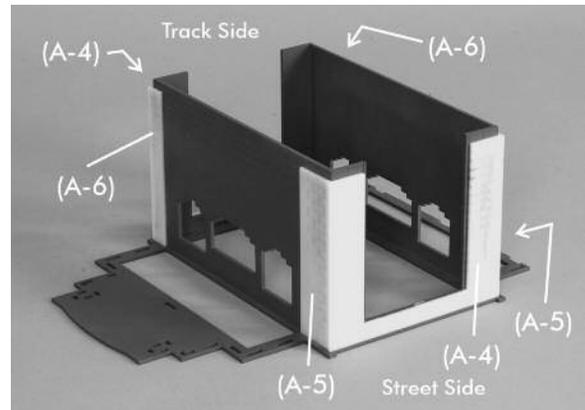


Figure 3

Glue part (A-7) x2 behind part (A-1) flush on the bottom and centered left to right. Do this on both the street and track side of the model. Glue parts (A-9) and (A-10) on either side. These parts should fit between the parts (A-7). There is a little engraving across the tops of these parts, be sure it is facing out. Be sure the parts are square.

Note, if you break the skinny columns off of part (A-7) do not panic. We did too. Set them aside and wait until the next step and then glue them back in place.

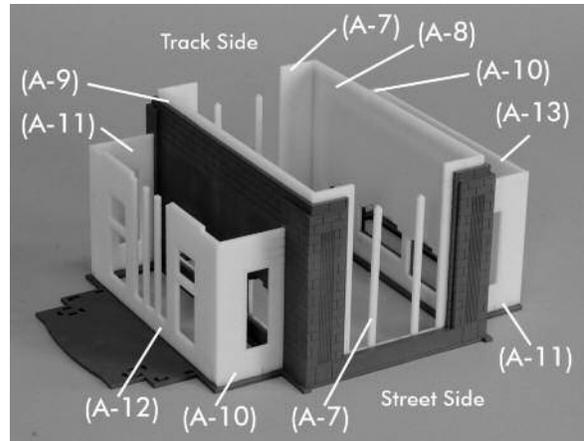


Figure 4

Glue parts (A-10), (A-11) and (A-12) in place using the tabs and slots as guides. Be sure all the parts are square. You might want to use the roof part (A-28) to check that the assembly is square at the top.

Glue parts (A-10), (A-11) and (A-13) in place using the tabs and slots as guides. Be sure all the parts are square. You might want to use the roof part (A-27) to check that the assembly is square at the top. See Figure 4

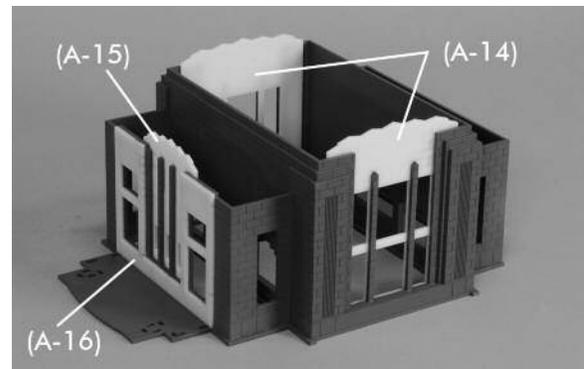


Figure 5

Glue parts (A-14) x2 as shown. There are two sets of these parts, one with the Santa-Fe engraving and one blank. You can use which ever you prefer.

Glue part (A-15) as shown. There are two sets of this part, one with the Santa Fe engraving and one blank. Glue part (A-16) to the side of the building as shown. See Figure 5

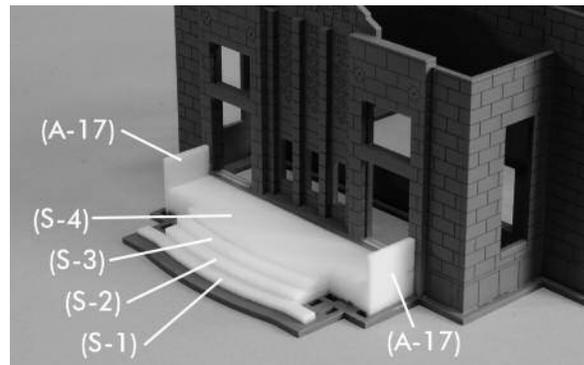


Figure 6

Glue the steps (S-1) thru (S-4) in ascending order. They should all be flush against the building and on the sides. Glue parts (A-17) into the slots on the Base (A) and on either side of the steps to help keep the steps flush. See Figure 6

Glue parts (S-17) and (S-18) x3 in place as shown in the figure. Do the same for the other side of the stairs as well. Make sure the engraving is facing out on all the parts.

Glue the steps (S-5) thru (S-9) in ascending order. They should all be flush against the building and centered side to side. Make a second set and glue onto the other side of the structure.

See Figure 7

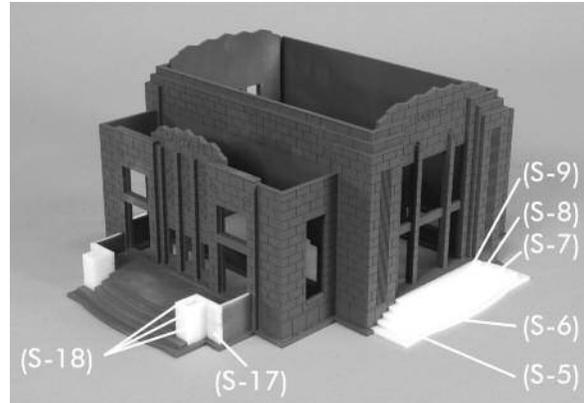


Figure 7

Glue the wall caps (A-19) and (A-20) on top of the short walls located on either side of the steps. See Figure 8

The main part of the depot is now completed. Clean up the assembly, see “Preparing Your Model for Painting.” Then set aside while you build the annex.

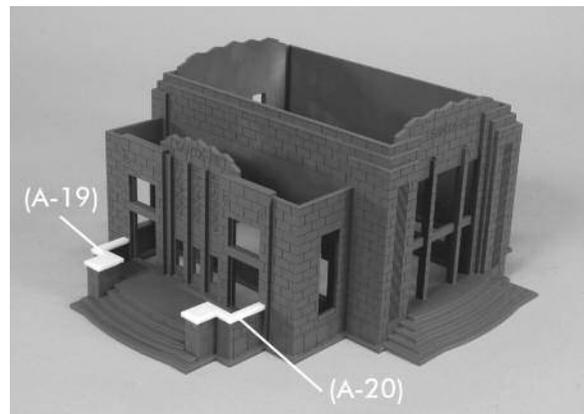


Figure 8

## Assembly of the Annex

Lay part (B) on your work surface with the engraved letters facing up. Insert the tabs on parts (B-1), (B-2), (B-3) and (B-4) into the slots in the Base (B) and glue in place. Glue the walls to each other as well. Make sure the engraving is facing out on all the parts. Check that all the tabs are seated properly and that the assembly is square. See Figure 9

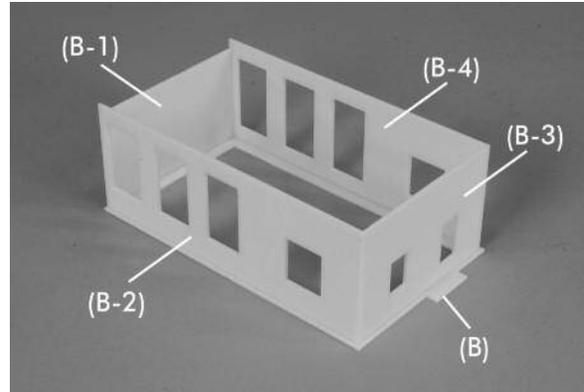


Figure 9

Glue parts (B-6) and (B-7) behind the walls (B-2) and (B-4) as shown. The walls should sit flush on the bottom and against the end wall (B-1).

Glue the wall parts (B-5) x 4 in place as shown.

Stack and glue the steps (S-10) thru (S-13) in place as shown. When the glue is set fill and sand the sides so they are perfectly smooth. See Figures 10 & 11

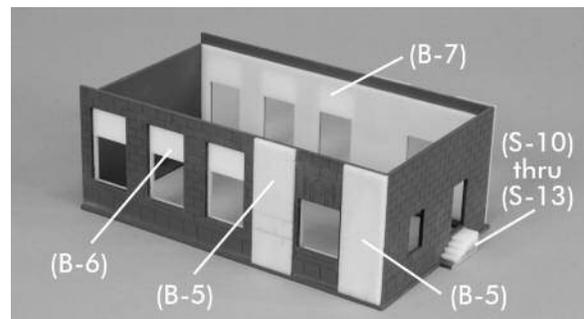


Figure 10

The main part of the annex is now completed. Clean up the assembly, see “Preparing Your Model for Painting.” Then set aside while you build the loading dock.

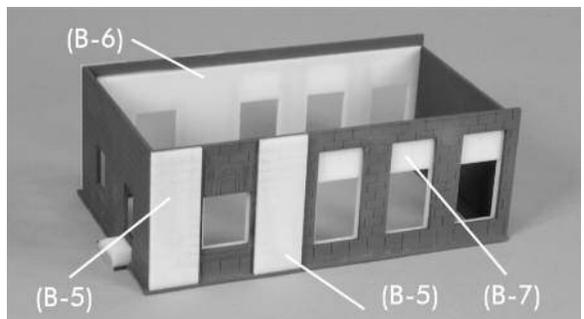
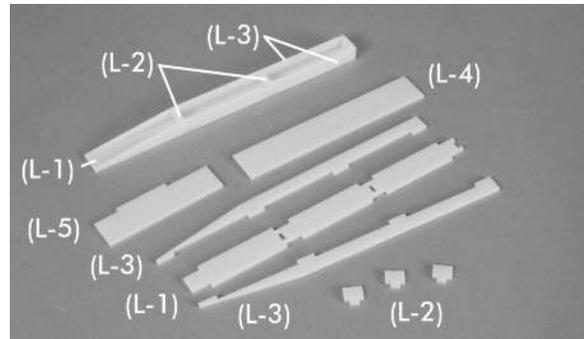


Figure 11

## Assembly of the Loading Dock

Lay part (L-1) on your work surface. Insert the tabs on parts (L-2) x3, into the slots in the (L-1) and glue in place. Glue the side walls (L-3) in place using the tabs and slots as guides and parts (L-2) x3 to keep it all square. When dry, fill and sand the seams to make it all smooth and square.



Glue the loading dock base assembly to the annex. *Figure 12*

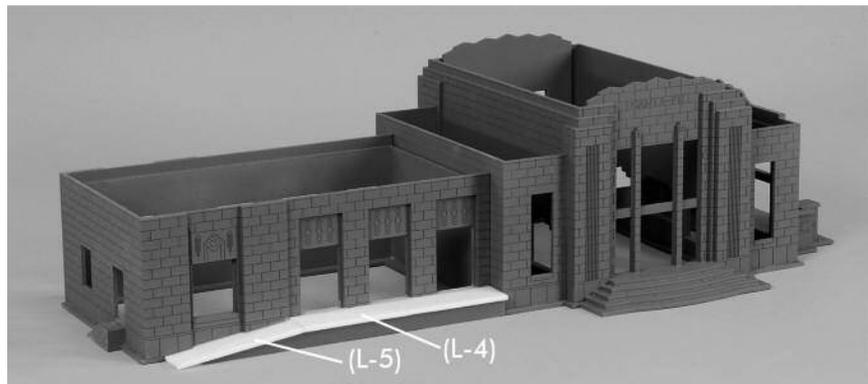
You are gluing it to the edge of the Base (B). You are NOT gluing it to the walls. There will be a gap between the dock and the wall. The right side of the assembly should be flush with the end wall of the annex.



Glue part (L-3) in place. The long tab inserts into the space in the wall of the annex. The part should be flush against the wall. You may need to file it a bit to get it to fit perfectly. Glue part (L-4) in place on top of the loading dock base and against the wall. Fill any seams and clean up the model.

*Figure 13*

See Figures 13 & 14



*Figure 14*

## Final Assembly of the Building

The station and annex are now completed. You can glue the two assemblies together or leave them separate. Clean up the assembly, see “Preparing Your Model for Painting.” Paint the assemblies, see “Painting Your Model.” Your model should now look something like the photos below. Note the heavy weathering along the top of the building. See Figures 15 and 16



*Figure 15*



*Figure 16*

Prime and paint the windows. See “Painting Your Model” and “Window Glass.” Install the assembled windows and doors behind the walls using super glue (CA).  
See Figures 17 & 18

Awnings are included if you wish to use them. We did not use the awnings as we felt they blocked the view of the building.

There are two short awnings each one made with one part (A-29) and (A-30). And one long awning made with part (A-31) and (A-32). Glue the parts together so that the ends with the notches are flush and the notches align. See Figure 19

Test fit and then glue the awnings in place. You may need to open the notches up where they meet the wall with a file to make it fit. There is wire included with your kit. You can use this to support the awnings. Cut it so that it fits between the holes on the awning and in the walls of the building. See Figure 20

Your building is finished and ready to install on your layout. You may add lights and other details. We thank you for purchasing this kit from CMR and hope that you have enjoyed building it. Be sure to visit our website to see our other kits at [cmrtrain.com](http://cmrtrain.com).



Figure 17



Figure 18

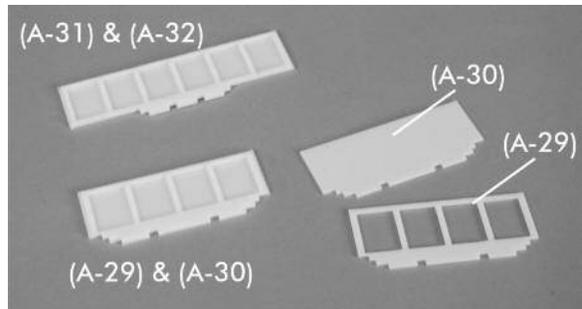
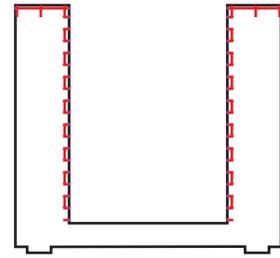
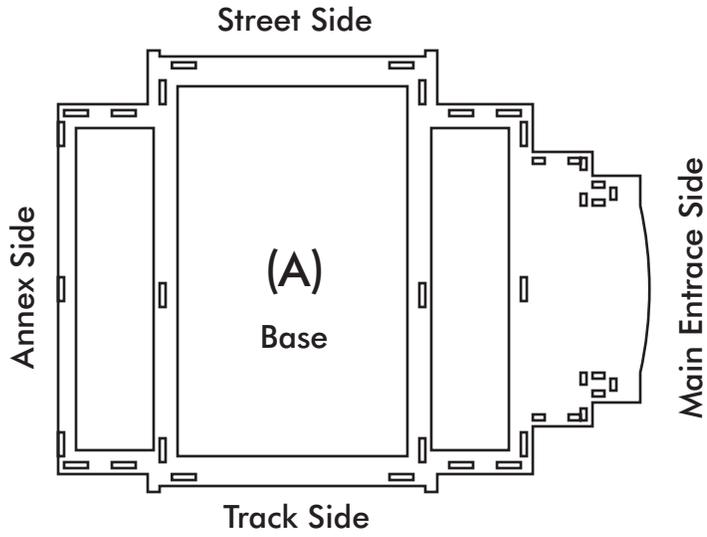


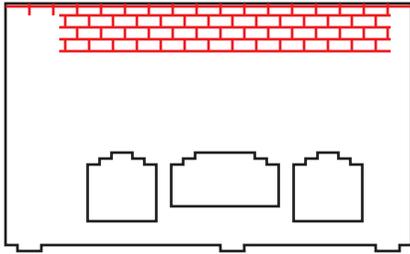
Figure 19



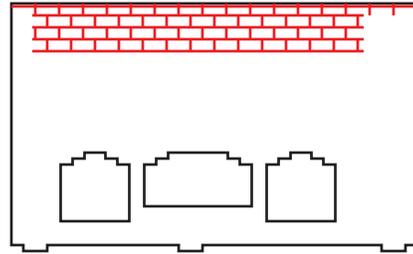
Figure 20



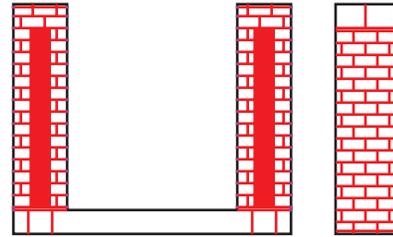
(A-1) x2



(A-2)



(A-3)



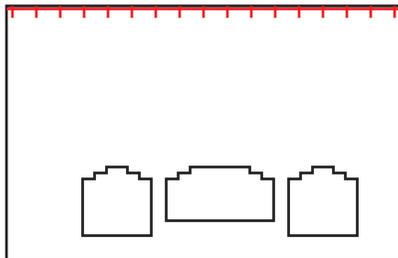
(A-4) x2



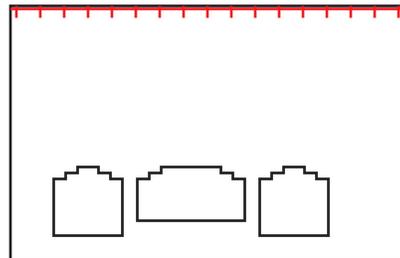
(A-5) x2



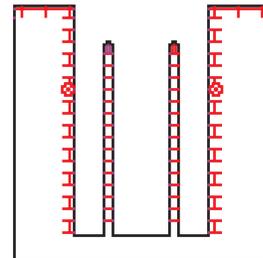
(A-6) x2



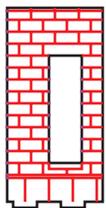
(A-8)



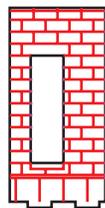
(A-9)



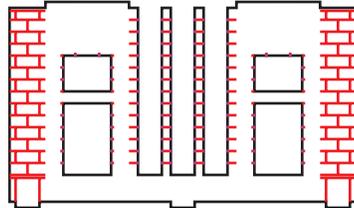
(A-7) x2



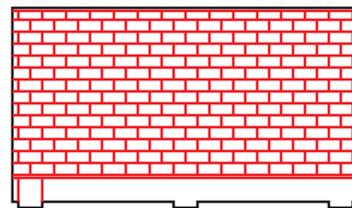
(A-10) x2



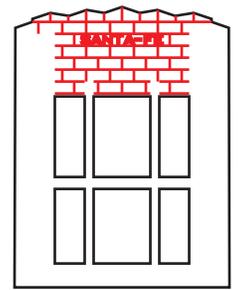
(A-11) x2



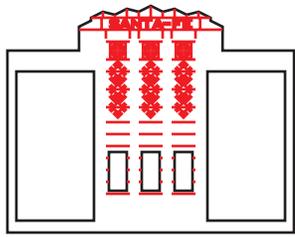
(A-12)



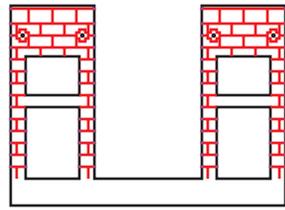
(A-13)



(A-14) x2



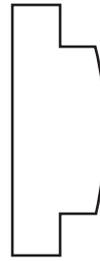
(A-15)



(A-16)



(S-1)



(S-2)



(S-3)



(S-4)

Steps



(S-5)



(S-6)



(S-7)



(S-8)



(S-9)

Steps  
2 sets total



(A-17) x4



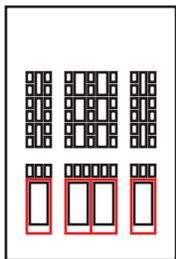
(A-18) x6



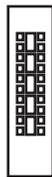
(A-19)



(A-20)



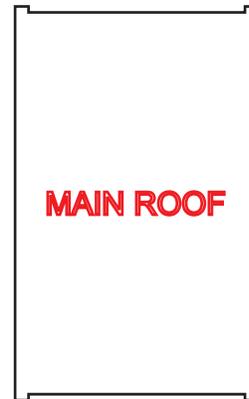
(A-22) X2



(A-23) X4



(A-27)



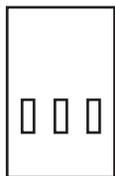
MAIN ROOF

(A-26)

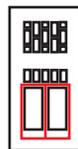
Roofs



(A-28)

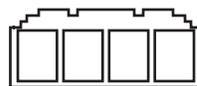


(A-24)

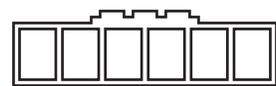


(A-25) X4

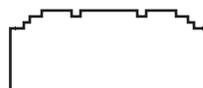
Window Frames



(A-29) x2



(A-31)

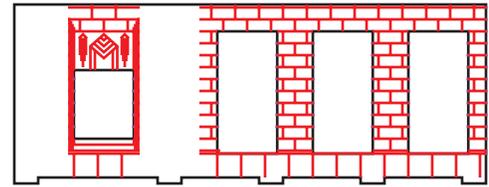
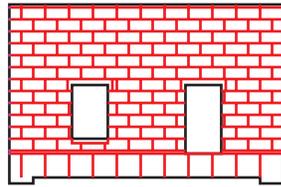
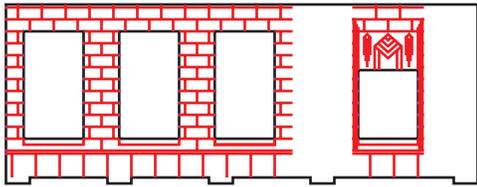
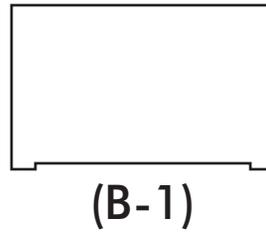
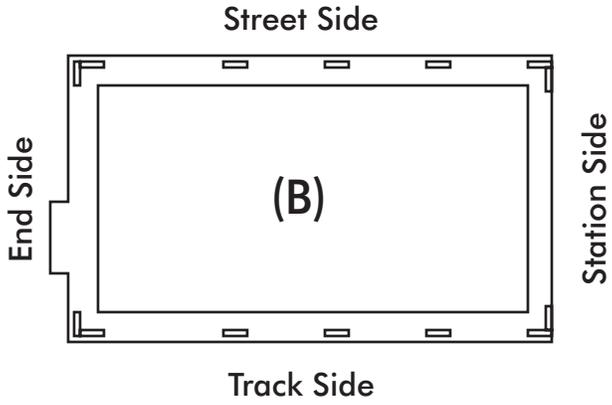


(A-30) x2



(A-32)

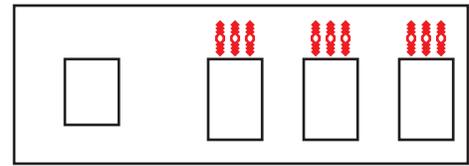
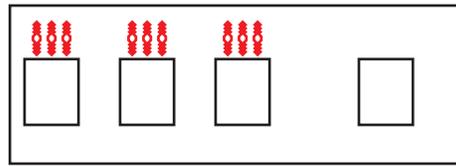
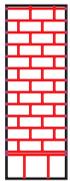
Awnings



(B-2)

(B-3)

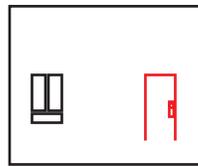
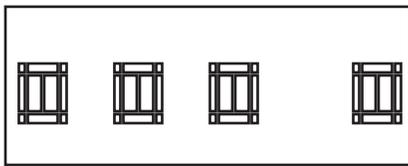
(B-4)



(B-5) x4

(B-6)

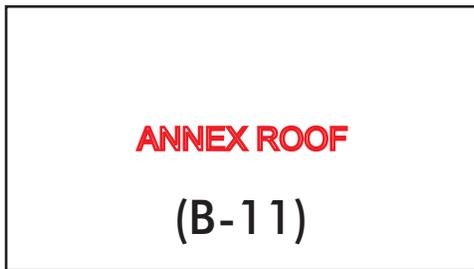
(B-7)



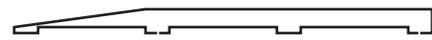
(B-8)

(B-9)

(B-10)



(L-2) x3



(L-3) x2



(L-4)

(L-5)

