

When coal was king, it was in demand for industrial and domestic use as well as for locomotive fuel. Anthracite, a slower burning hard coal was great for home heating furnaces and many coal dealers made it available. These coal supply yards took on several distinct appearances. One type used various bins below track level and coal trucks were loaded by moveable conveyors; another type used huge concrete silos or wooden bunkers which enabled trucks to be loaded easily by gravity. The J. Harry Jones Coal Company (once was a real coal dealer in Allentown, Pa) consisted of a large wooden bunker perched on top of a reenforced concrete foundation. Coal was dumped into a cavity beneath the track and carried into the bunker bins by a hidden conveyor. This prototype makes a fine compact model which doesn't take up much room and provides another source of revenue for your hopper cars.

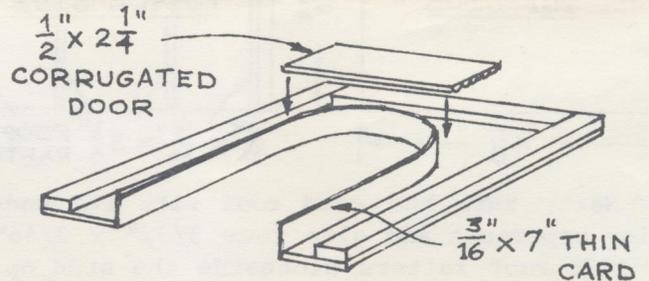
Before beginning construction, sort out and identify all the parts, visualizing where and how they are used by reading through the instructions and checking dimensions on the drawings, etc.. Most of the wood and card parts have been cut to size for you wherever possible and may only require a bit of sanding or trimming. A fine tooth Zona saw and fingernail emery board are good tools to use for this. Many parts are referred to by dimension so have a good ruler handy. To prevent gluing parts fast to your work surface cover it with a piece of wax paper and tape it securely. Spring type clothespins are handy to clamp parts together until glue dries.

COAL BUNKER FOUNDATION

Begin assembly by gluing $1/8" \times 1/4" \times 3 1/2"$ reinforcing strips $1/8"$ side down and flush with the inside top edge of both of the $3 1/2" \times 9"$ card stock foundation side walls. Cut out the arched truck door opening where marked on the one card stock end wall ($3" \times$

$3 1/2"$) and then glue $1/8" \times 1/4" \times 3 1/2"$ corner reenforcing strips flush with the edges of both card end walls, keeping the $1/4"$ side against the card stock. Next, glue $1/8" \times 1/4" \times 2 1/2"$ reenforcing strips across the top edge. Use spring type clothespins for clamps to hold these strips until glue dries. See Sketches.

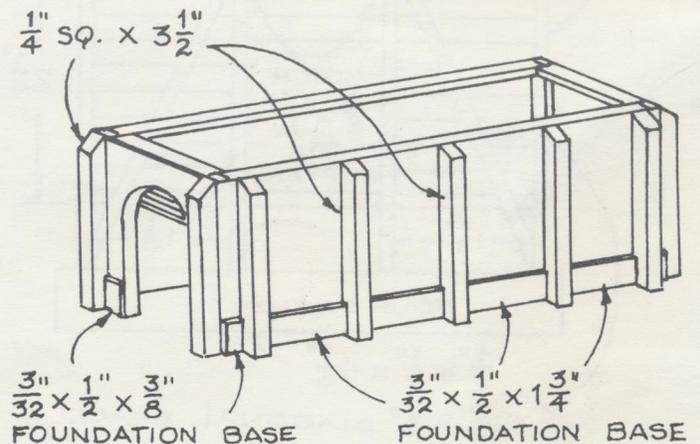
Using the thin $3/16" \times 7"$ cardstock furnished, glue this strip around the inside of the arched door opening, keeping the edge flush with the outside edge of the card stock end wall. This can best be done by placing the end wall flat on wax paper while gluing the strip around the opening. See Sketch. Now paint the $1/2" \times 2 1/4"$ corrugated piece provided an aluminum color. After this is dry, glue it to the top of the arched truck door opening on the inside. This will simulate a steel roll up door.



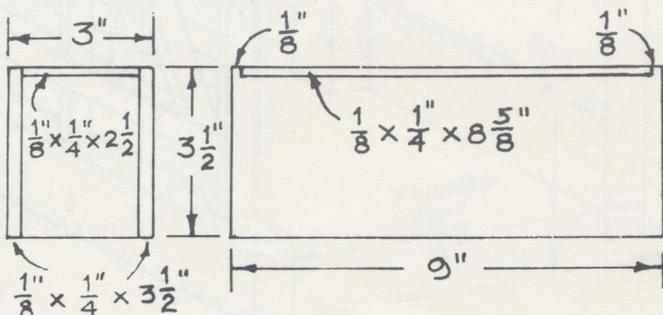
When all the inside reenforcing has dried, glue all four walls together by overlapping the end walls with the side walls. Keep the bottom edges flat on your work surface and square the four corners. If you have no square, use the corner of this paper. While the foundation is drying, cut a 45 degree taper on one end of each $1/4" \text{ sq.} \times 3 1/2"$ foundation column. After cutting one, use it as a pattern to mark the rest. A zona or X-acto saw will do this job quickly and easily.

Glue one of these upright reenforcings flush with the outside edge of each side of both end walls. See Sketch.

FOUNDATION REENFORCING COLUMN



MAKE TWO OF EACH

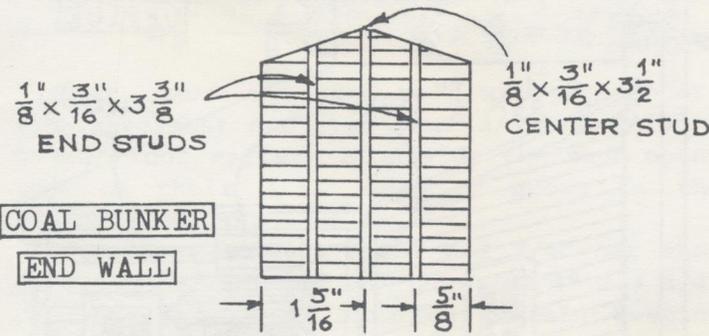


Then glue $\frac{3}{32}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ " foundation base pieces across the bottom edge of the end wall with the arched truck door opening. Complete gluing foundation base pieces and reinforcing columns in place along each side wall as shown. They should fit exactly. Be sure to keep the $\frac{1}{4}$ " sq. upright reinforcing columns vertical. Your bunker foundation should now look like that in the sketch. Paint it Floquil cement color inside and out and set it aside to dry.

COAL BUNKER

Locate the two $\frac{3}{16}$ " scribed sheath pieces precut to 3 " x $8\frac{1}{2}$ " and the two pieces pre-cut to $2\frac{5}{8}$ " x $3\frac{1}{2}$ ". These are the coal bunker sides and ends which must be braced.

Cut off the roof taper on both end pieces where marked and glue a $\frac{1}{8}$ " x $\frac{3}{16}$ " x $3\frac{1}{2}$ " coal bunker stud in place in the center of each end wall on the scribed side. Glue $\frac{1}{8}$ " x $\frac{3}{16}$ " x $3\frac{3}{8}$ " studs $\frac{5}{8}$ " in from both side edges of each end wall. When dry, sand the top of the studs to the same taper as the end wall.

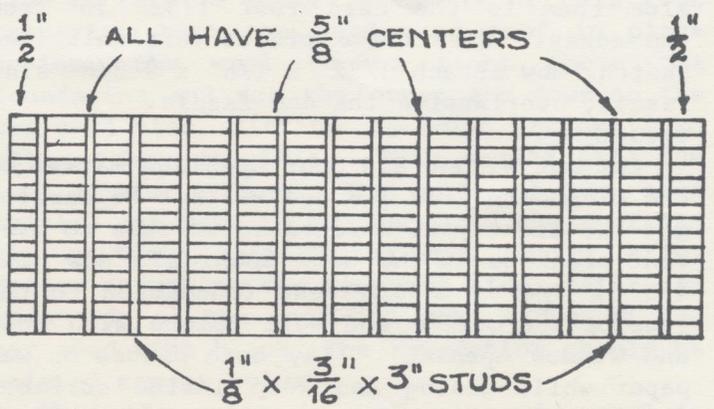


Mark off stud locations on both bunker side walls as shown in the sketch. Glue the $\frac{1}{8}$ " x $\frac{3}{16}$ " x 3 " studs on these centers keeping the ends flush with the side wall edges. Paint these four assemblies flat black inside and out. When the paint is dry, glue the side walls and end walls together by overlapping the end walls. Set aside until glue dries enough to handle.

While waiting, sand the top reinforced edge of the coal bunker foundation smooth. glue the coal bunker assembly to the top of the foundation, squaring it and centering it in place so all its edges are even. Glue $\frac{3}{16}$ " sq. x 3 " coal bunker corner studs in place on all four corners as shown in the sketch. Use a little glue at the top corner to hold it upright. When the corner studs are dry, measure $1\frac{3}{16}$ " and $2\frac{3}{8}$ " from the bottom of the coal bunker on both ends to locate the lower edge of the end braces. Center them on the ends and glue them in place. Make sure they are horizontal. Now the $\frac{3}{16}$ " sq. x $9\frac{3}{8}$ " side braces can be glued in place against the bottom of the end

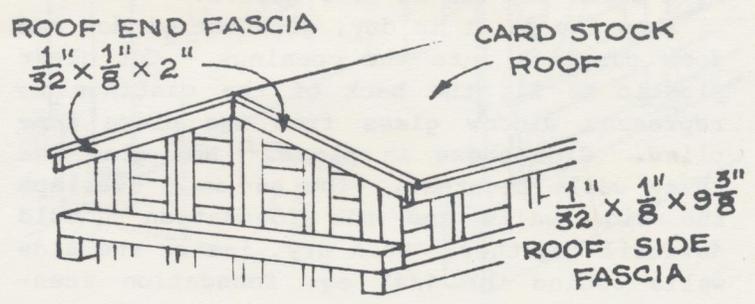
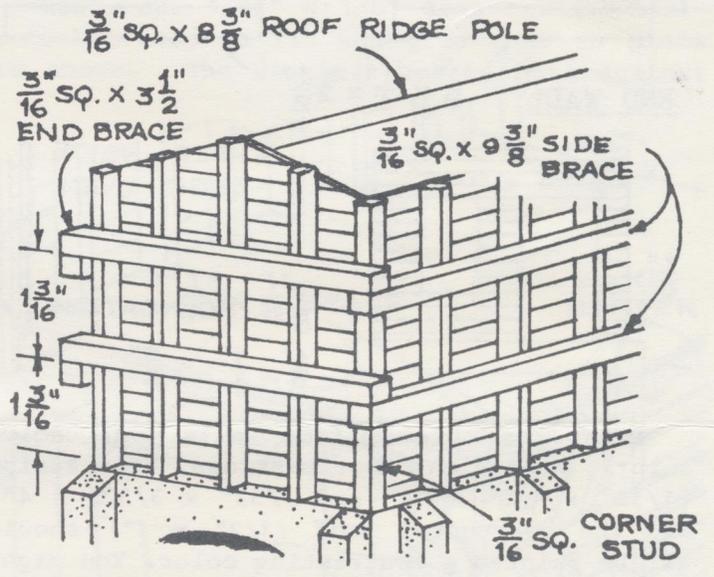
braces. See sketch.

COAL BUNKER SIDE WALL



COAL BUNKER ROOF

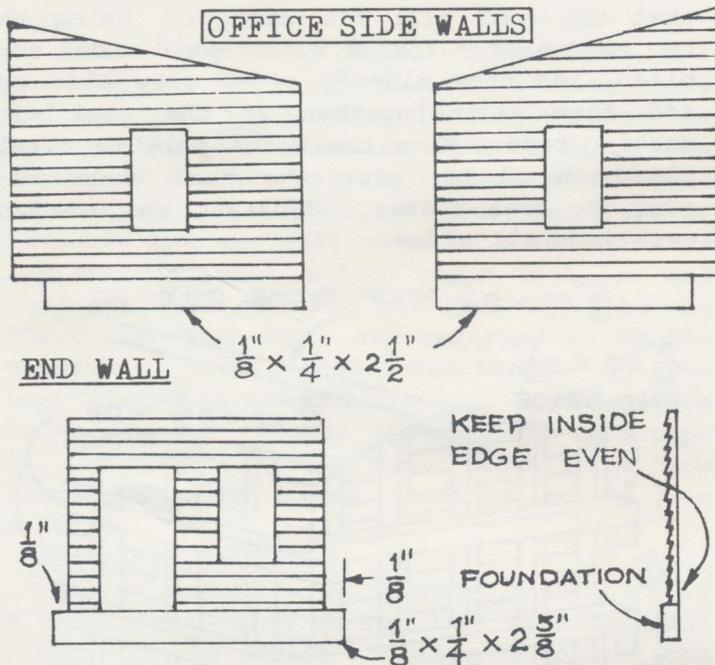
Glue $\frac{3}{16}$ " sq. x $8\frac{3}{8}$ " roof ridge pole across the coal bunker attaching it at the end peaks. See sketch. Sand the tops of all the side wall studs to the roof taper making sure they don't project above the ends so that the roof will fit nicely. Using the two pieces of $1\frac{7}{8}$ " x $9\frac{1}{2}$ " card stock supplied, lay them side by side, grey side up, and tape them together at the seam with masking tape. When the ridge pole is firmly glued in place, glue the card stock roof over the coal bunker, adjusting the overhang evenly on all sides.



When this is dry, cut and fit four $1/32''$ x $1/8''$ x $2''$ roof end fascia pieces to the roof end overhang. When a proper fit is obtained, glue them to the card roof $1/32''$ in from the edges. Keep these pieces vertical. See sketch. Now attach $3/32''$ x $1/8''$ x $9\ 3/8''$ side fascia, overlapping the end fascia.

OFFICE

Cut out window and door openings marked on the clapboard side and end walls. Be careful and cut lightly with repeated strokes to prevent breakage at the door opening. Now glue $1/8''$ x $1/4''$ x $2\ 5/8''$ end foundation to the edge of the office end wall (piece with door and window opening). Lay both pieces on wax paper while gluing and keep inside surfaces flush. Center the foundation, leaving $1/8''$ project past the wall on each end. Now glue $1/8''$ x $1/4''$ x $2\ 1/2''$ foundation to each side wall keeping it flush with the ends as shown. You should have a right hand and left hand side wall. See sketch.



Paint the three office walls your choice color. Window and door castings, trim strips ($1/32''$ x $1/8''$ x $10''$ and $1/32''$ x $3/32''$ x $4''$) and the corrugated roof ($1/2''$ x $1''$) should all be painted a contrasting color. You might use yellow and brown, light and dark green, or a cream and tan as your colors.

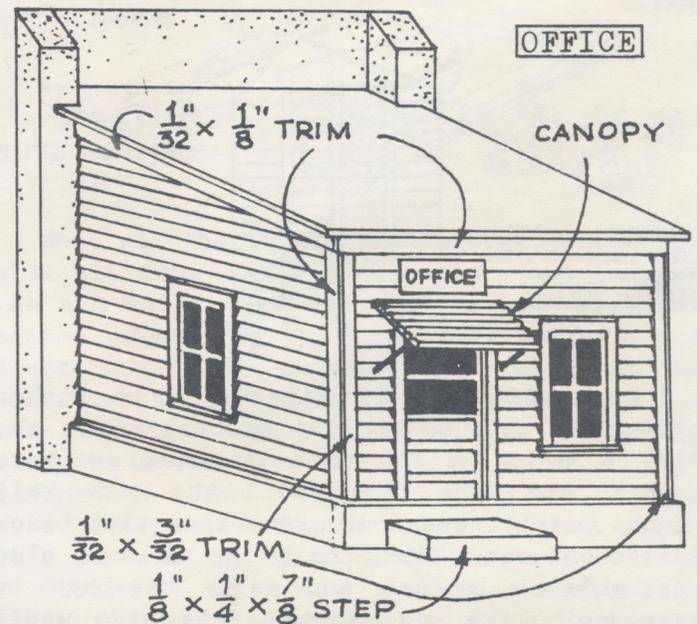
When the paint is dry, glue the window and door castings into the openings. Cut clear plastic to fit the back of the castings to represent window glass from the piece supplied. Glue these in place. Now glue the three walls together. The end wall overlaps the side walls and the foundation should dovetail together. When dry, insert the side walls behind the $1/4''$ sq. foundation reen-

forcing columns of the coal bunker foundation end wall and glue it in place. See the sketch. Office foundation should butt against the reinforcing column and both foundations should be even at the base.

Next, with the building flat on wax paper, glue $1/8''$ x $1/4''$ x $7/8''$ office step in place against the foundation centering it beneath the doorway.

OFFICE CANOPY AND ROOF

Now we are ready to fasten the $1/2''$ x $1''$ corrugated canopy above the office doorway. Glue this piece above the door frame about $1/16''$ or so. In line with the edges of this roof, and $3/8''$ below, drill a #74 hole on each side of the door through the clapboard. Cut the heads off two straight pins provided and insert them into these holes, bending them upward until they touch the canopy. Put a dab of glue on these ends to secure them. See sketch. Now cut out the office sign and glue above the corrugated canopy roof.



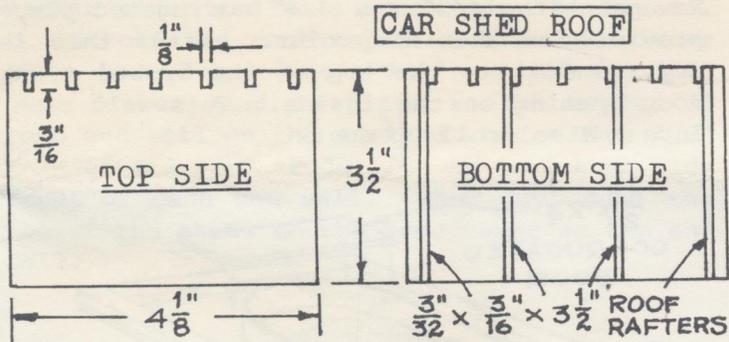
ROOF AND TRIM

Notch out the corners of one end of the $2\ 7/8''$ x $3''$ cardstock office roof so it will slide in between the upright reinforcing columns at the rear of the coal bunker foundation. Glue the roof in place when you have a good fit. Take one of the $1/32''$ x $1/8''$ x $10''$ trim (painted your trim color) strips supplied, lay it up under the card roof against the clapboard siding and cut it to fit. Do this on all three sides of the office building, overlapping the side trim with the end trim. See sketch. Now fit and glue a $1/32''$ x $3/32''$ trim strip at each edge of the end wall keeping it flush with the edge. Then cut, fit and glue a $1/32''$ x $1/8''$ trim strip along each side edge, overlapping the other

trim strip to form a neat corner trim. See sketch.

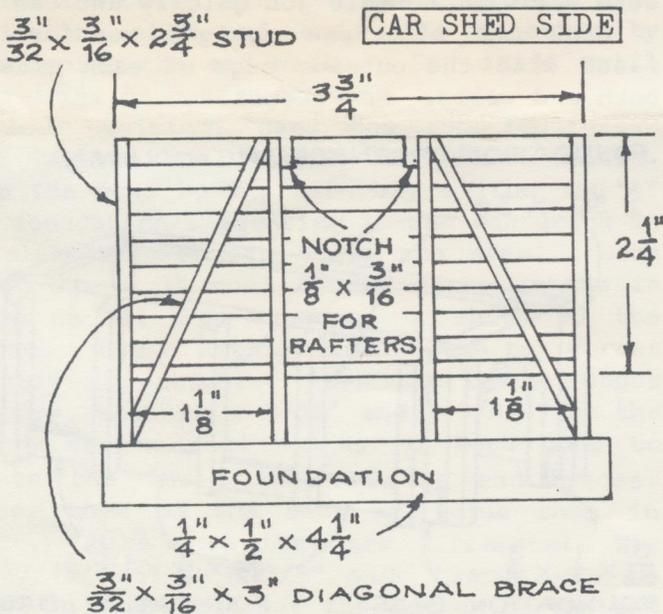
HOPPER CAR SHED

Using the 3 1/2" x 4 1/8" card stock supplied, lay the long edge of the card against the bottom of the coal bunker where it contacts the bunker foundation and mark each coal bunker stud location on this card with a pencil. See the large drawing for location of car shed roof. It should be centered over the middle and last vertical foundation reinforcing column. After marking the studs, measure 3/16" inward from the roof edge and make a line. Cut out these notches. See Sketch.



Next, turn the card roof with its underside uppermost and glue four 3/32" x 3/16" x 3 1/2" roof rafters alongside the stud openings on their 3/32" edge as shown in the sketch. Set aside to dry.

Glue four 3/32" x 3/16" x 2 3/4" car shed side studs in place on the 2 1/4" x 3 3/4" car shed side (1/8" scribed sheath) keeping one end flush as shown. When dry, glue the projecting ends of these studs to the 1/4" x 1/2" x 4 1/4" foundation, centering them on its length. Next, trim and glue the 3/32" x 3/16" x 3" diagonal braces in place where shown.

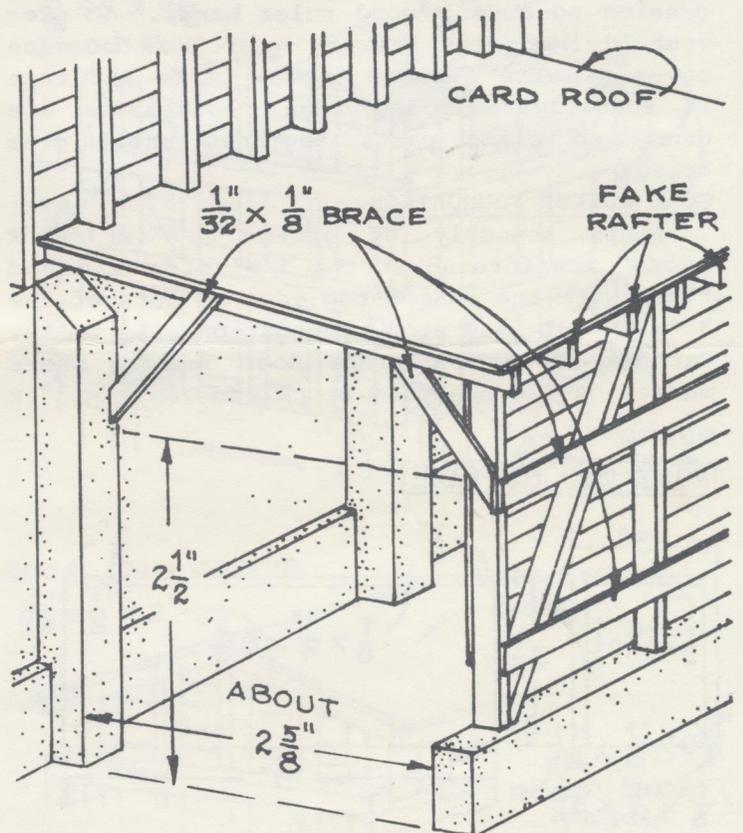


Then check your card roof to see where the center two rafters will be located above the shed side, and notch out the top of the shed side to receive them. When all of this fits properly, butt the card shed roof in place against the coal bunker right above the foundation and set the other end down on the car shed side, fitting the roof rafters into the notches provided. This should give the roof a nice slope. The ends of the roof rafters may have to be sanded so the roof can fit up tight against the coal bunker side. Before attaching the roof and side, paint the underside of the roof and both sides of the car shed flat black. The foundation should be painted cement color.

When the paint is dry, glue the roof in place leaving a 1/8" overhang over the car shed side. Be sure the car shed side is vertical.

As soon as glue has set, cut five fake roof rafters from the 3/32" x 3/16" x 6" stripwood provided and glue them in place beneath the 1/8" roof overhang which extends out over the car shed side. Two fit in equidistant between the first two car shed side studs; one between the center two studs; and the other two between the end two studs. See Sketch. These fake roof rafter ends must be cut so they are vertical when glued in place.

Next, cut 1/32" x 1/8" diagonal and horizontal braces to fit and glue them in place as shown. The diagonal braces butt against



the foundation reinforcement columns, and both sides should be kept as even as possible to present a good appearance.

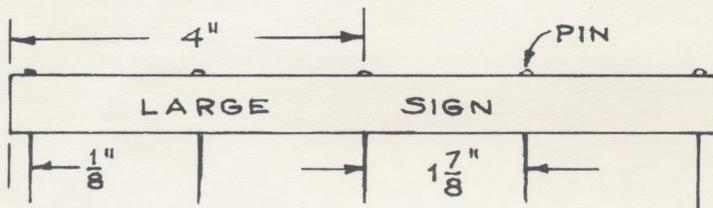
ROOFING

The three roofs must be covered with "roofing" paper. For this we use 3/4" wide masking tape (not furnished). Begin at the lower edge of the roof with one strip keeping the tape flush with the roof edge. Lay successive strips across the card roof, overlapping the preceding one by 1/4". Do not run all of them all the way across, but make breaks in various rows and overlap these breaks by 1/16" to represent ends of rolls. Trim off the edges with a scissor. When you reach the peak on one side, start at the bottom of the other side and continue upward until you reach the top. Then lay a 1/2" wide cap strip across the peak. Paint the roofing Floquil Grimy Black.

LARGE SIGN

Cut out the two J. Harry Jones Coal Company signs from the sheet with the large drawing. Paste them on both sides of the 1/2" x 8" card strip supplied, with white glue.

Using five straight pins supplied, insert them through the card stock being careful to keep them centered so they won't come through the sign. Insert one 1/3" from each end, one in the center, and the other two equidistant between the end and center pins. See Sketch. Center your sign along the coal bunker roof



peak and tap each pin to make a mark in the roof. Now drill #74 holes in the 3/16" sq. ridge pole beneath the roof, tap the pins into these holes until the sign is 1/8" above the roof peak. Straighten the sign so it is even.

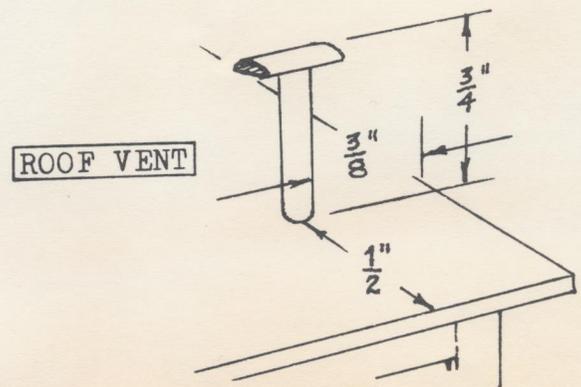
SIDE LADDER

Cut the first five rungs from one end of the HO brass ladder supplied. Use an old scissor or side cutter. File off any part of these rungs that may protrude. Lay your ladder along the front corner of the coal bunker foundation assembly so that the edge of your ladder is flush with the corner. See the large drawing. Keep the bottom of the ladder (part with rungs) flush with the bottom edge of foundation. Now make three marks directly under the center of the bottom rung, the ninth rung, and the seventeenth

rung. Insert straight pins at these marks leaving them protrude 3/16". If the pins enter the reinforcing wood strip beneath, drill with a #74 drill. Set the ladder in place and glue or solder (we prefer to solder) the pin heads to the center of the ladder rungs. Glue the ladder to the two 3/16" sq. side braces on the coal bunker where they touch. Be sure your ladder is vertical. Your ladder should now be attached with the rungless points projecting above the edge of the roof. Bend these ends into a "U" shape so the ends touch the roof. Keep these ends as even as you can.

OFFICE ROOF VENT

Using the 1 1/2" length of 1/16" dowel provided, cut off a 1/4" piece and carefully split it in half lengthways to make the vent cover. See Sketch. Glue the remaining piece of dowel to the flat side of this vent cover and let it dry. Drill a #48 hole in the office roof as located where shown in the sketch. Insert and glue the roof vent in place. Paint it black or aluminum.



PAINTING AND WEATHERING

Touch up any areas still not painted such as the car shed braces, roof fascia, bunker side braces, ladder, etc.. Your foundation should be dirty and streaked because coal is far from a clean substance. An easy method of streaking is by using a black pastel crayon. All streaks should be vertical as gravity dictates where the water runs. Make downward streaks and rub downward with your finger to soften the pastel line.

A pit should be made where your track goes through the car shed. The coal was dumped into this pit and an underground conveyor carried the coal inside and up into the various bins. A coal truck or two should be helpful to make your coal dealer business more realistic. Trucks backed inside to load.

We hope you enjoyed construction of this kit. If you are interested in other S Scale kits, send 75¢ for our photographically illustrated catalog and price list. Your money will be refunded with your first order of \$5.00 or more.

J. HARRY JONES COAL COMPANY

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OFFICE

