



HO Structure Kit **MODERN GROCERY WAREHOUSE**

933-4105

Thanks for purchasing this Cornerstone kit. All parts are styrene plastic, so use compatible glue and paint to finish your model. You may find it easier to assemble and paint some larger parts as subassemblies, while smaller details can be painted on the sprue and touched up after installation. **PLEASE NOTE:** This kit includes optional parts to build your choice of three different sidewalls, and four different end walls! While the instructions cover the basic assembly, the walls are individual panels like the prototypes, and are interchangeable to simplify customizing your model if desired. Please take a few minutes to read these instructions and study the drawings before beginning and follow the appropriate steps. Some optional parts are included for customizing; any unused parts can be kept for future projects or discarded as desired. You can also use fewer parts to make a smaller structure, or combine additional kits (each sold separately) for a bigger building. You may also use the working SceneMaster Modern Wall Light 3-Pack (#949-4318, sold separately) in place of the nonworking light fixtures (57). For ease of assembly, you may wish to have these additional kits on hand before starting

The post-WWII years brought sweeping changes to every aspect of the grocery industry all across America. While the grocery store had long been a fixture of the business district (along with tiny forerunners of today's convenience stores in some city neighborhoods), the selection was limited to staples such as flour and sugar, along with canned and commercially prepared foods. Meat, fruit, baked goods and similar items had to be purchased separately from specialty stores. But as customers relocated to new suburbs, storeowners made the move as well, and the self-service "supermarket" with its all-in one selection quickly became a cornerstone of shopping centers. Although larger than downtown locations, space was still limited, which made them more reliant than ever on their distributors. Big changes were coming to this end of the industry as well: older facilities in land-locked downtown locations were not only farther away from their customers adding time and transportation costs, but were all-but impossible to update to handle recent advances such as palletized shipments. Bigger and better facilities were needed, and newly developed industrial parks offered the required space with more convenient access to rail and road transport. While the idea of building with precast concrete panels had been around for decades, "tip-up" construction (so called as panels were lifted or tipped into position) caught fire in the early 1950s, and was widely used for these new warehouse/distribution facilities. These designs proved ideal for the grocery industry, providing a clean, dry interior with plenty of easy access for cross-dock operations, where dry goods were received from both railroads and trucks, then quickly sorted and reloaded for local deliveries. As frozen and fresh foods became increasingly popular a second tip-up building equipped as a cold storage facility was added to the complex. Many of these older buildings are still going strong today, often as part of larger chains serving stores within a radius of about 250 miles (420k). Your new model can easily be one of the busiest rail-served industries on your layout, and a larger operation can be built with the Modern Cold Storage Warehouse (#933-4069), available separately. Additional figures, vehicles, scenery and more can be added to bring your scene to life. See your local hobby shop, check out the latest Model Railroad Reference Book, or visit us on line at walthers.com.

PLEASE READ BEFORE STARTING...

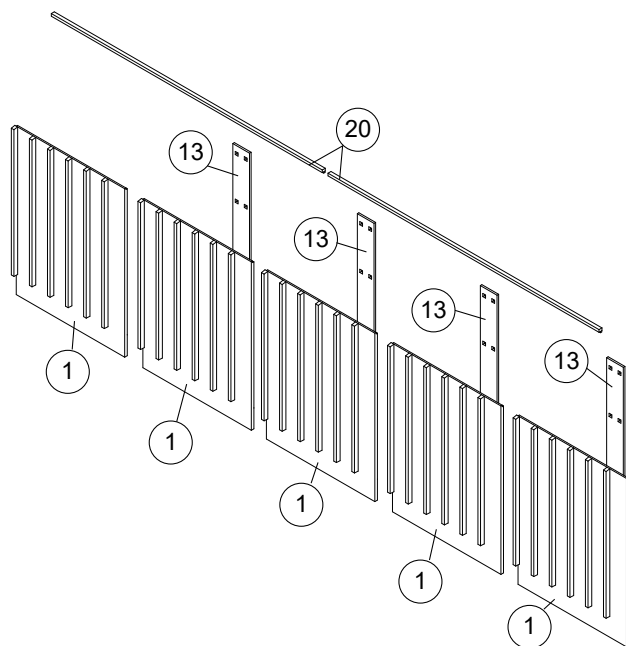
These instructions show just one of many possible ways your kit can be assembled, and may differ from the box photo! Like the prototypes, walls, doors and windows can be arranged as desired and optional parts for three styles of sidewalls and four different end wall assemblies are provided to create a unique model for your railroad. The accompanying drawings show each of these wall assemblies from the front; working from left to right remove parts only as need - identify each panel prior to removal and assembly, as many look similar but are not identical. If you're planning a custom design, before gluing any parts, lay walls face up to determine where to place windows and doors, and determine an assembly sequence that works best for you. All wall panels are glued together on the back using molded locator pins and separate connector plates as shown. A long raised ridge is molded at the bottom to align with the base, a shorter ridge at the top to support the roof, and corner walls have a third raised ridge along the outside edge. When assembling individual wall sections, work on a flat surface and allow parts to dry.

Parts to build all of the following wall assemblies are included in this kit, but each is optional: choose the style/s you like best - refer to the sketches marked **BEFORE FINAL ASSEMBLY** for some suggested arrangements and assemble as follows:

1) PLAIN SIDEWALL - Assembly #1

1) Walls of this type are typically used for structures with interior rail access - use this optional wall with either Pull-Through End Walls (7, 8). Align Large Plain Side Panels (5x 1) side-by-side as shown: align pins with openings in Large Connectors (4x 13) and glue where parts meet. Wall Caps (2x 20) will be installed in step 13.

Wall Caps (2x 20) are L-shaped in cross section; align the thin edge on the inside so the larger edge rests on top of the wall assemblies and glue in place as shown.

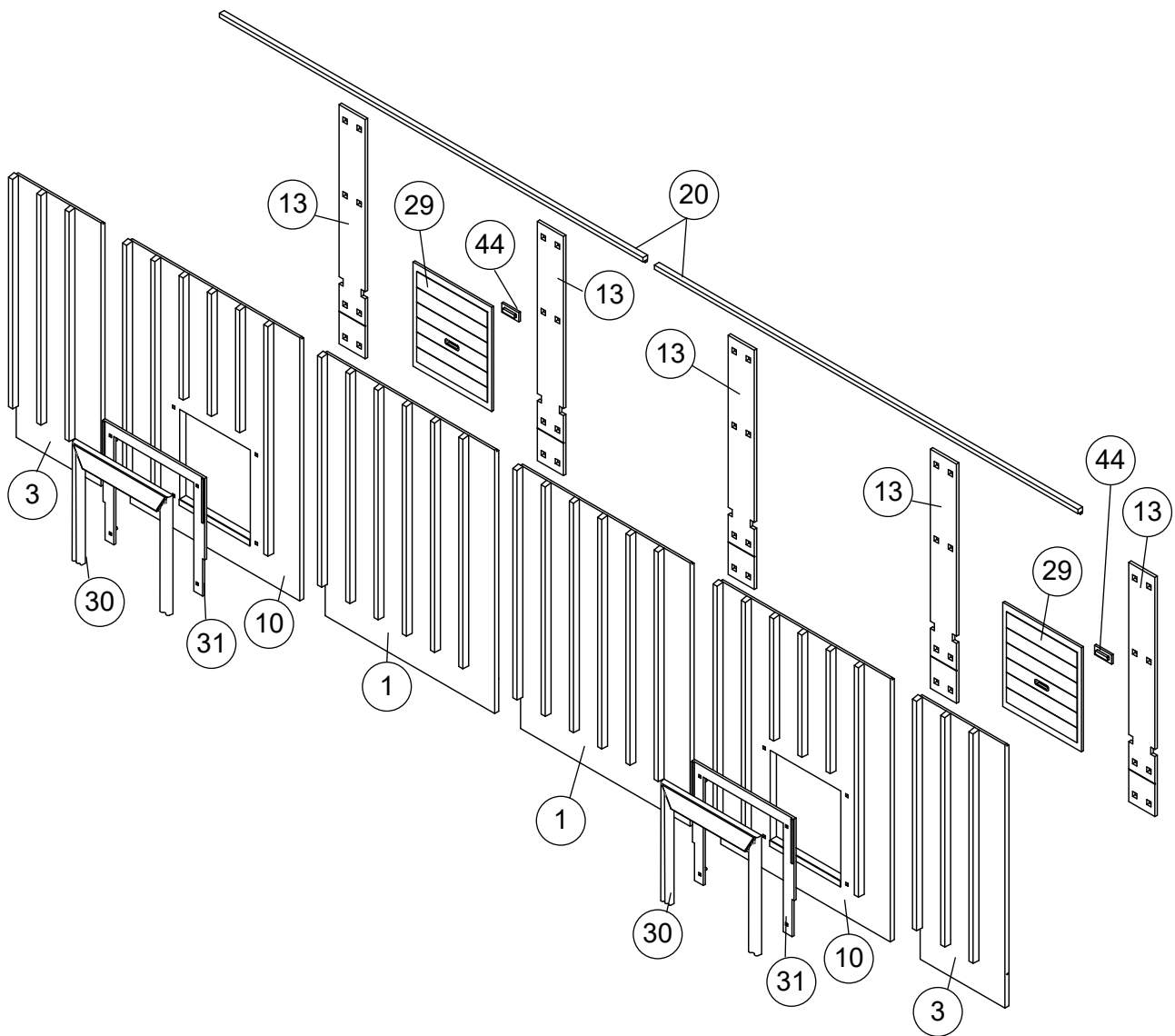


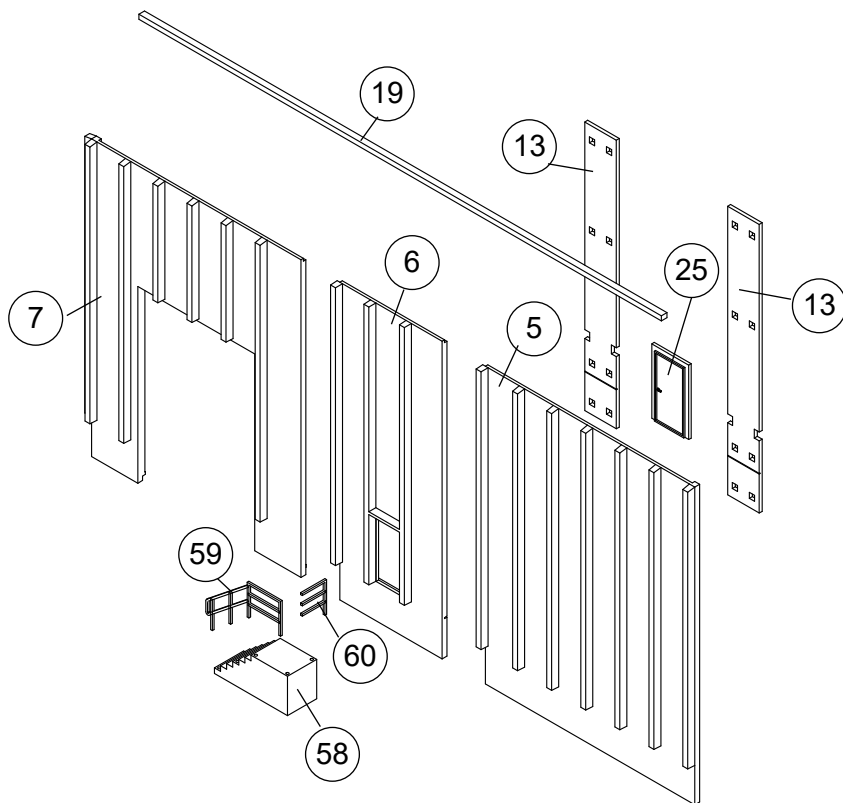
2) RAIL CAR DOCK WALL - Assembly #2

2A) From left to right, align Small Single Panel Wall (3) with first Rail Dock Door Panel (10), Large Plain Panels (2x 1), second Rail Dock Door Panel 10, and Small Single Panel Wall (3) as shown, and glue together using Large Connectors (5x 13).

2B) 2B) PLEASE NOTE: Rail Dock Doors (2x 29) can be left off to model an open door: for a closed door, glue Rail Dock Door Glass (2x 44) into openings and glue completed doors in place on back of both Dock Door Panels.

2C) Align pins on backs of Weather Bellows/Seal Base (2x 31) with mounting points on edges of both Dock Door Panels and glue in place. Glue Exterior Bellows/Seal (2x 30) to outside of Base. Wall Caps (2x 20) will be installed in step 13.





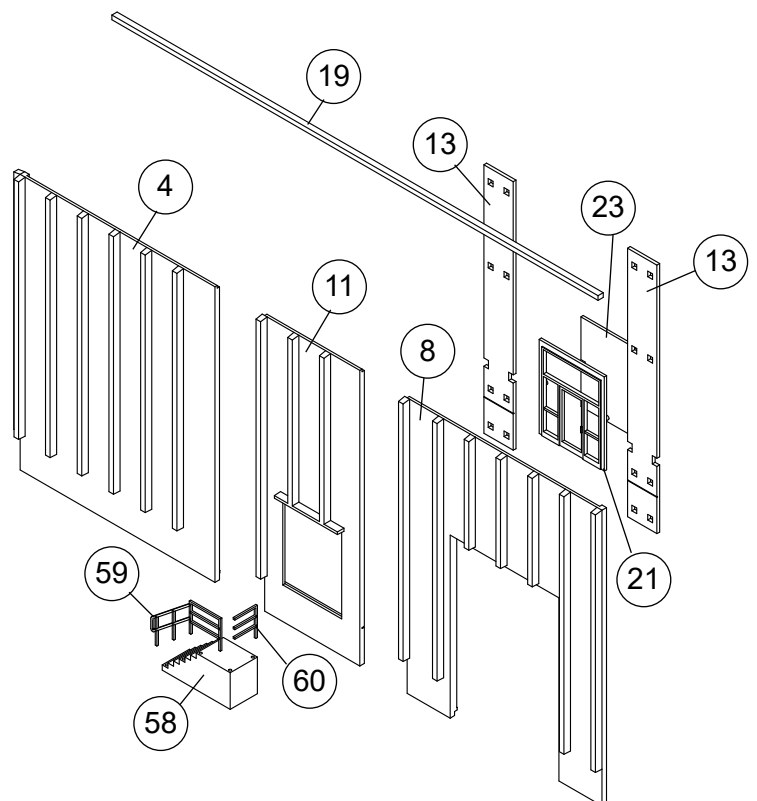
3) END WALLS W/RAIL CAR DOORS - Assembly 3 & 4: PLEASE NOTE: Parts are included to build your choice of a Left (7) or Right (8) Pull-Through Corner End Wall typical of many prototypes, but as shown in step 11, you can also install both walls (one at each end) for full access. Raised ridges on one edge of Pull-Through Corner Wall Panels, and Large Plain Corner Walls (4, 5) are the outside edges.

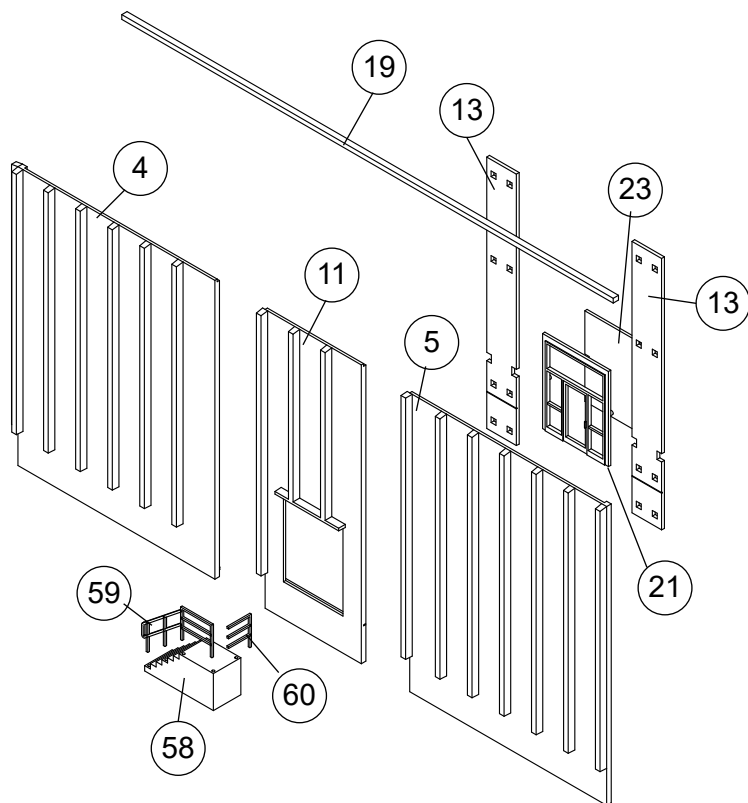
3A) Left Rail Car Door

From left to right: align Left (7) Pull-Through End Wall, Single Panel Entry Wall (6) and Large Plain Right Corner Wall (5) as shown, and glue together using Large Connectors (2x 13). Glue Entry Door (25) to opening as shown. Glue Large Handrail (59) to mounting points in top of Small Stairway (58). Glue End Railing (60) as shown in mounting point and on inside edge of Large Hand-rail. Align completed steps with Door and glue to wall where parts meet.

3B) Right Rail Car Door

From right to left: align Right (8) Pull-Through End Wall, Single Office Wall (11) and Large Plain Left Corner Wall (4) as shown, and glue together using Large Connectors (2x 13). Glue Entry Door (21) to opening as shown. Glue Entry Door Glass (23) to back of Entry Door. Glue Large Handrail (59) to mounting points in top of Small Stairway (58). Glue End Railing (60) as shown in mounting point and on inside edge of Large Handrail. Align completed steps with Door and glue to wall where parts meet. Wall Caps (2x 20) will be installed in step 13.





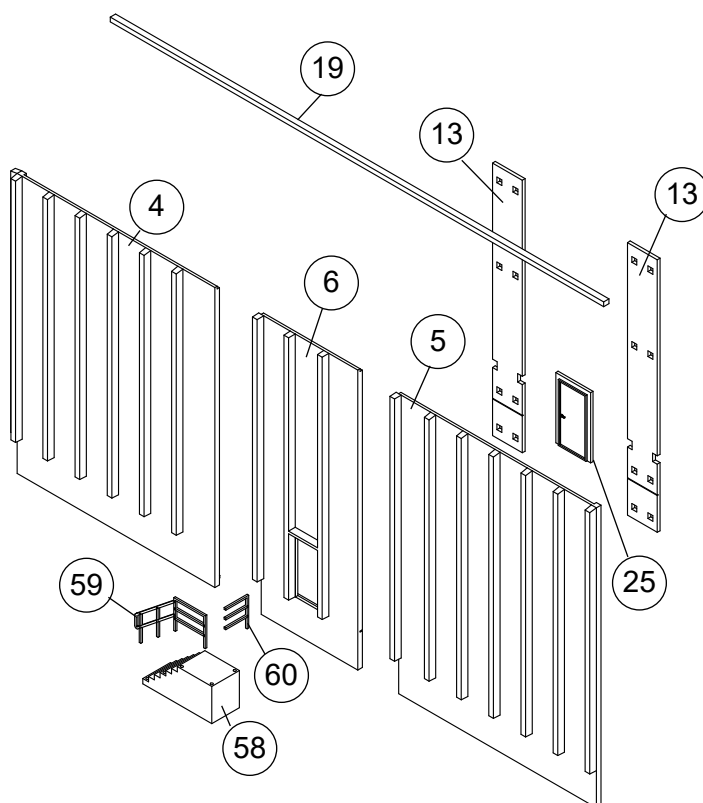
4) STANDARD END WALLS - Assembly #5 & #6
PLEASE NOTE: Raised ridges on one edge Large Plain Corner Walls (4, 5) are the outside edges.

4A) Office Entry

From right to left: align Large Plain Left Corner Wall (4), Single Office Wall (11) and Large Plain Right Corner Wall (5) as shown, and glue together using Large Connectors (2x 13). Glue Glass Entry Door (21) and Office Window (43) to openings as shown. Glue Glass (2x 24) to back of Door and Window. Glue Large Handrail (59) to mounting points in top of Small Stairway (58). Glue End Railing (60) as shown in mounting point and on inside edge of Large Handrail. Align completed steps with Door and glue to wall where parts meet. Wall Caps (2x 20) will be installed in step 13.

4B) Single Entry/Exit

From right to left: align Large Plain Left Corner Wall (4), Single Panel Entry Wall (6) and Large Plain Right Corner Wall (5) as shown, and glue together using Large Connectors (2x 13). Glue Entry Door (25) to opening as shown. Glue Large Handrail (59) to mounting points in top of Small Stairway (58). Glue End Railing (60) as shown in mounting point and on inside edge of Large Handrail. Align completed steps with Door and glue to wall where parts meet. Wall Caps (2x 20) will be installed in step 13.



TRUCK DOCK & OFFICE WALL - Assembly #7

PLEASE NOTE: Two sizes of truck docks are provided - see step #6 - to model up to eight Trailer Docks and four Van Docks. You can build your structure with up to eight docks in all, using the four Dock Walls (9) provided; this sketch shows a smaller installation with two of each dock type.

5) To assemble as shown: from right to left, align first and second Dock Walls (2x 2), Back-In Dock Wall (9; if used, make a suitable ramp from foam (not included) for the final installation), Large Plain Panel Wall (1) and Double Office Wall (12) as shown, and glue together using Large Connectors (4x 13).

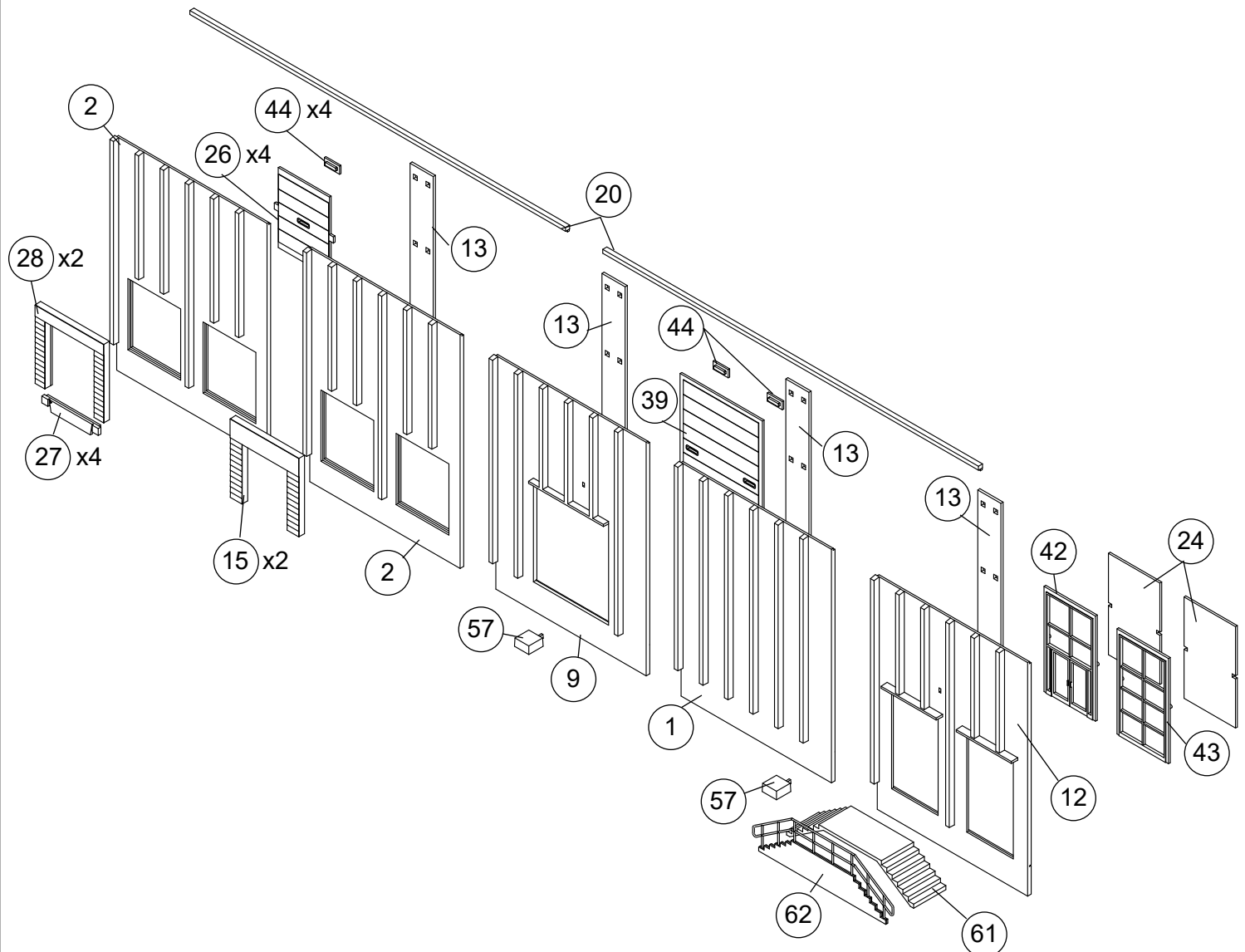
6) For larger Trailer Docks shown on first panel, glue Weather Bellows/Seals (28) to front of Dock Walls; align pins on Bumpers (27) with door openings and glue in place. For the smaller Van Dock shown on second panel (suitable for most box-type delivery trucks), glue part #15 to front of openings in Dock Walls. Both styles use Truck Dock Doors (26), however these can be left off to model an open door. For a closed door, glue Door Glass (44) to back of each Dock Door and glue completed Door in place on back of panels.

7) PLEASE NOTE: Overhead Back-in Door (39) can be left off to model an open door: for a closed door, Door Glass (2x 44) into openings and glue completed doors in place on back of both Dock Door Panels. Glue completed door to opening in Back-In Dock Wall (9). You may use the working SceneMaster Modern Wall Light 3-Pack (#949-4318, sold separately) in place of the Nonworking Light Fixtures (2x 57); insert Lights into small, square openings on Wall #9 and #12 as shown and secure or glue in place as desired.

8) Glue Side Entry Door (42) and Side Office Window (43) to Center Side Wall (12); align openings in Small Office Glass (2x 24) over pins in Door and Window, and glue in place.

9) Glue Large Stairway Exterior Panel 62) to outside edge of Stairs (61). Align with Door and glue to Wall where parts meet.

10) PLEASE NOTE: If you wish, SceneMaster Modern Wall Light 3-Pack (#949-4318, sold separately) may be used in place of the nonworking light fixtures (57). Glue lights of your choice to square openings in Wall #9 and #12 as shown.



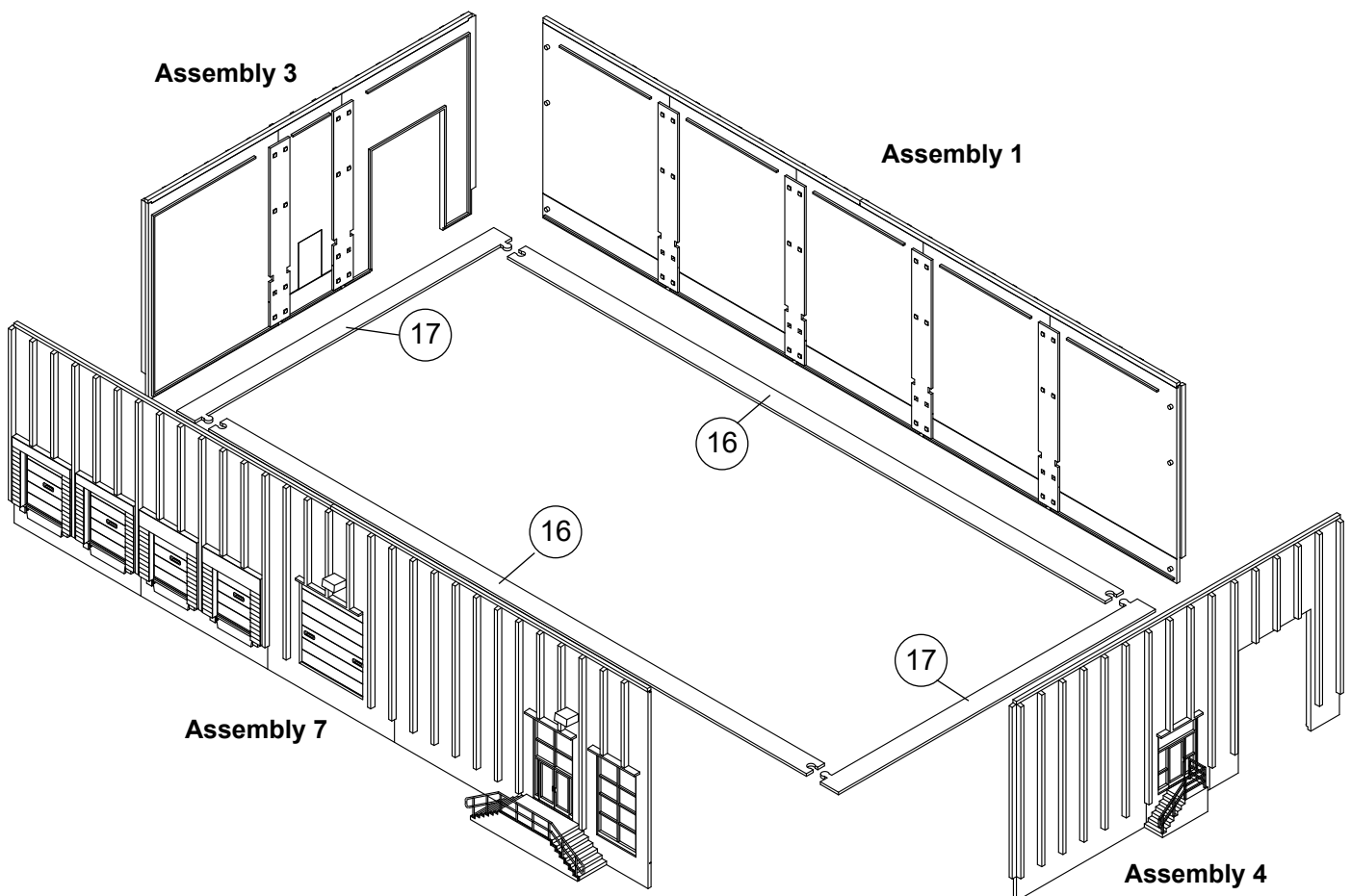
BASE SECTIONS

11) The base is designed for easy modification, however some cutting and splicing will be needed for a longer or shorter design. Align corner tabs and slots and glue where Long (2x 16) and Short (2x 17) Base Sections meet.

12) PLEASE NOTE: The following sketches show how various Wall Assemblies can be mixed and matched, however all attach to the Base the same way. Using raised ridges on lower edges of completed wall assemblies, carefully align and support walls: glue to Base and at inside corners where parts meet.

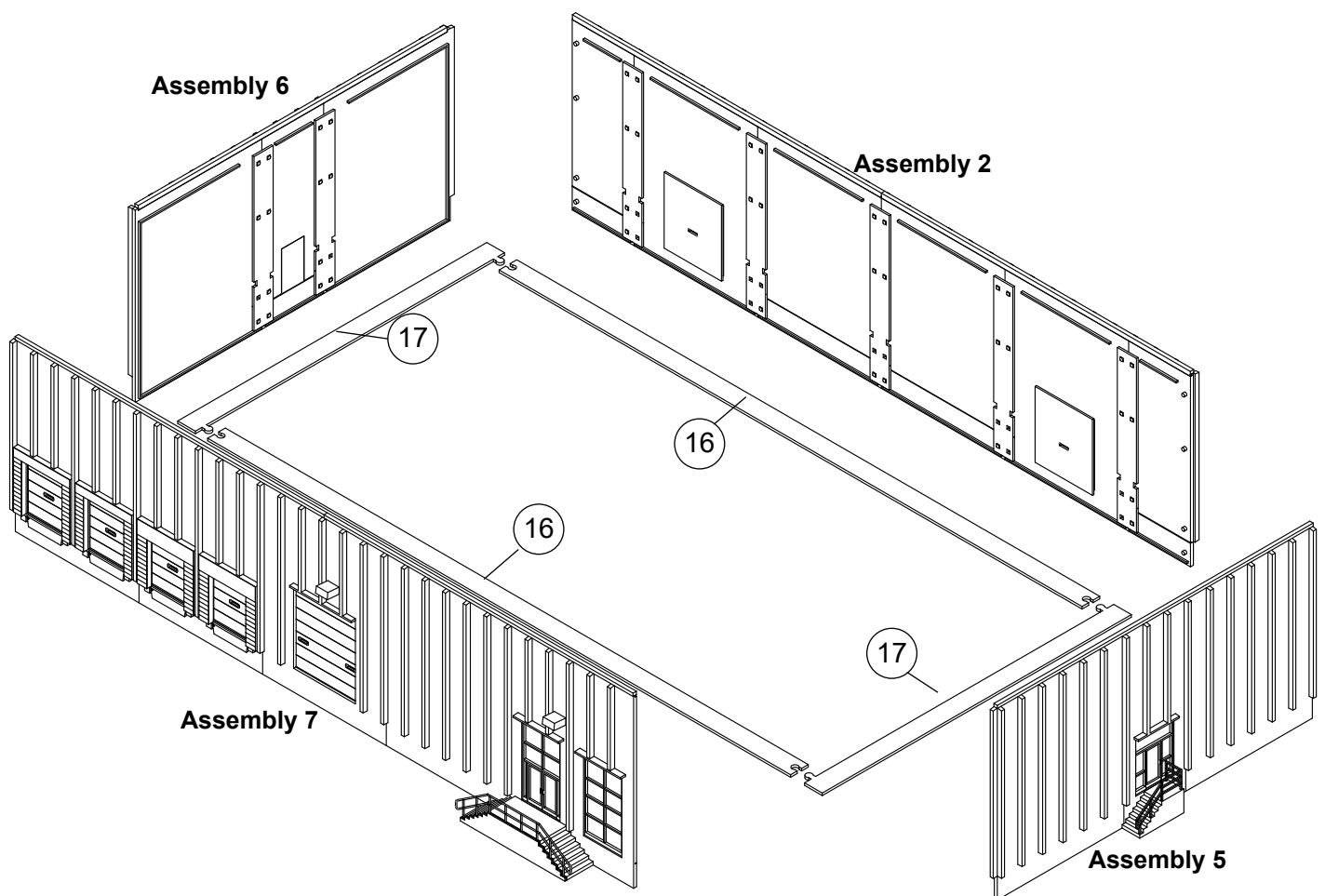
BEFORE FINAL ASSEMBLY... Rail Car Doors

This sketch shows a suggested arrangement of walls for a structure with pull-through rail car doors at both ends; many prototypes are built with just a single door of this type, and you can install walls with the door on the left or right of the structure as needed. A plain wall is typically built alongside this area.



BEFORE FINAL ASSEMBLY... Truck & Rail Car Docks

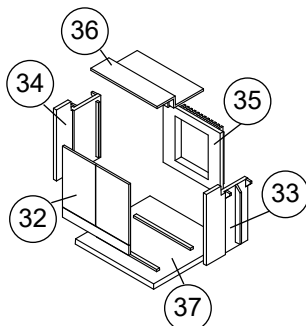
This sketch shows a suggested arrangement of walls for a structure with outside receiving/shipping docks for both rail and truck service.



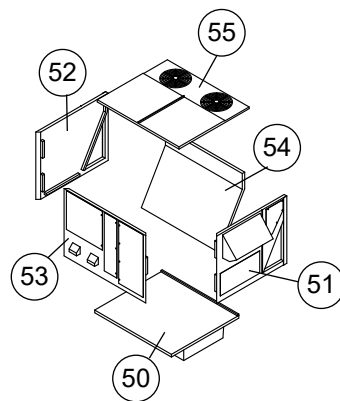
13) Pad-Mounted Transformer Cabinet: Using raised ridges on Base (37) to align Walls (32, 33, 34 & 35), glue to Base and at inside corners where parts meet as shown. Align inset area on underside of Top (36) with wall assembly and glue where parts meet.

14) Roof-Top AC Units - make four as follows: Note raised ridges on Front (53) and Side Walls (51, 52) are the bottom and rest on the Base (50). Align tabs and slots on Front and Side Walls, glue at inside corners where parts meet and to Base. Glue Rear Wall (54) below angled ridges on both sidewalls and to Base. Align inset area on underside of Top (55) with wall assembly and glue where parts meet.

TRANSFORMER CABINET



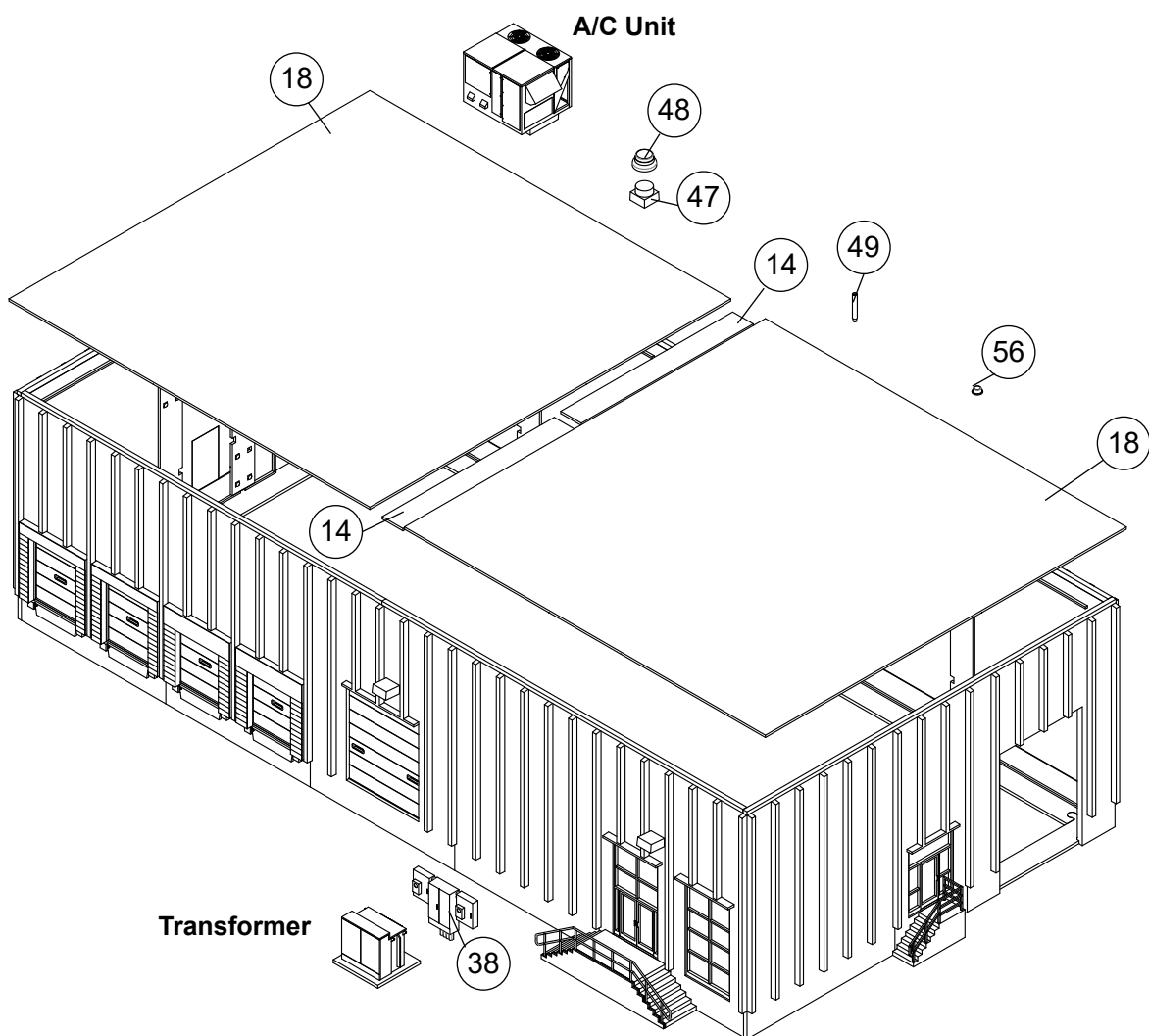
AC UNIT



ROOF

15) On a flat surface, connect Roof Halves (2x 18) by gluing Large Connectors (2x 13) on underside of each half as shown. Make sure assembled Roof is resting on raised ridges on wall panels and tops of Connectors: it may be glued or simply set in place if you wish to add floors, interior details or lighting (all sold separately). Finish assembly by gluing Large Vent Bases (4x 47) to Vents (4x 48), Soil Pipes (4x 49) and Roof Drains (6x 56) at any point on the Roof.

16) Electrical Cabinet with Meters (38): Glue Clear (2x 46) Meter Covers to raised round areas on meter details. The finished Electrical Cabinet can be installed on any wall with the Transformer alongside or some distance away; depending on your final location, you may wish to add Protective Posts to alert drivers using the Walther's SceneMaster Safety & Security Posts (#949-4148) or parts from the Cornerstone Security Details Kit (#933-4074), both sold separately.



SIGNS

17) To mount signs, simply cut the desired image and, using a small drop of white glue on the back, glue it in place on the structure.