



HO Structure Kit

MILWAUKEE EVERETT STREET STATION & TRAIN SHED

933-2946

Thanks for purchasing this Cornerstone kit. All parts are styrene plastic, so use compatible glue and paint to assemble and finish your model. Please take a few minutes to read these instructions and study the drawings before starting. You may find it easier to assemble some parts as subassemblies before painting, while smaller parts can be painted on the sprues for ease of handling and touched-up after installation. PLEASE NOTE: The station clock tower may be assembled in either the as-built or post-1953 shortened versions; choose one and follow the appropriate steps. Unused parts may be kept for future projects or discarded as desired. The Train Shed is designed so that several kits (#933-2984, each sold separately) can be combined to build a longer shed if desired.

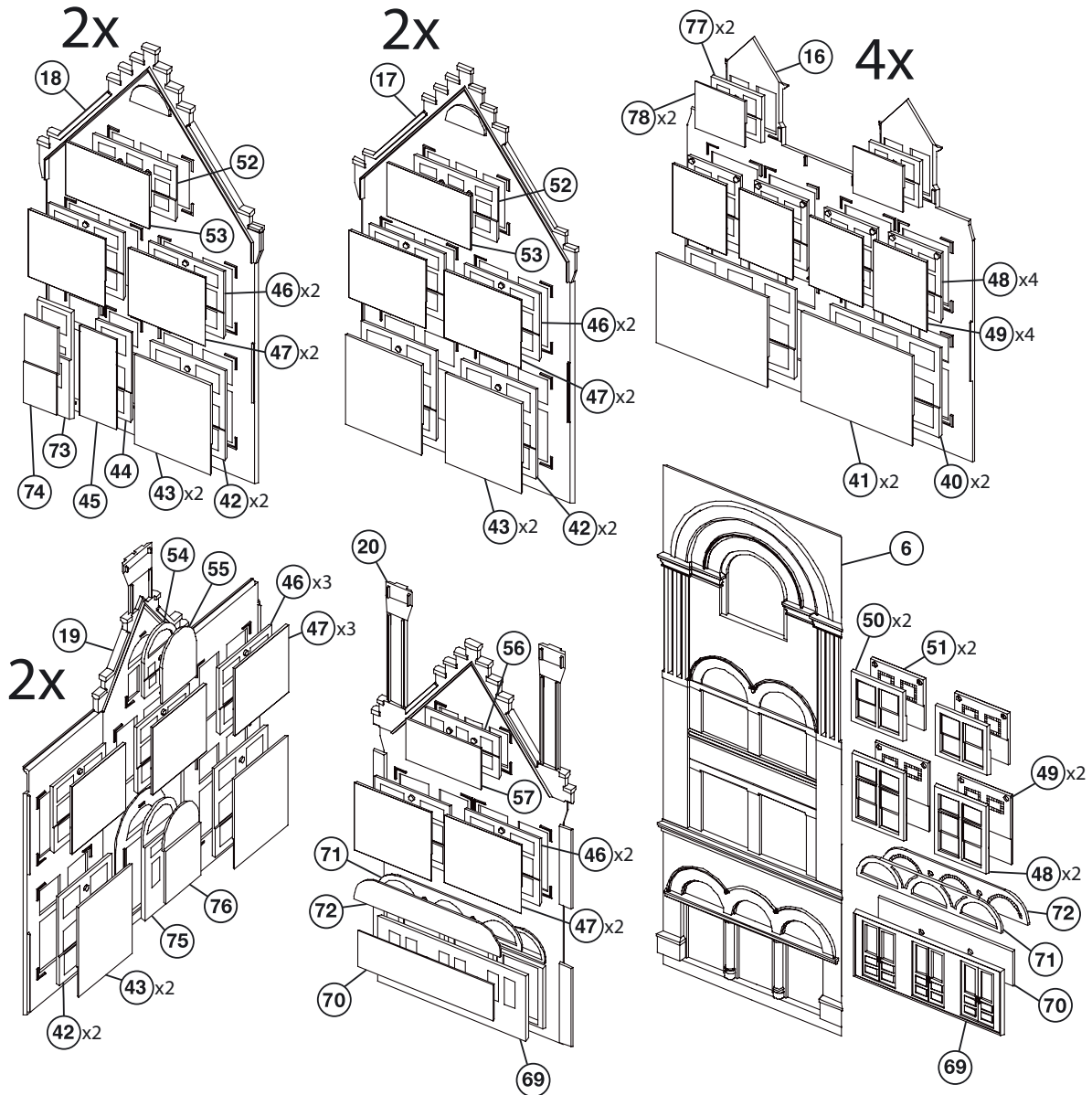
As the city of Milwaukee grew rapidly in the mid-19th century, several regional short lines serving the city were consolidated into what would become the Milwaukee Road. As part of this ongoing expansion, the company built its first large downtown station in 1866 on Reed Street (today South Second). Typical of the times, this "union station" also hosted trains of the Wisconsin Central (operating over the Milwaukee on trackage rights) and the Milwaukee and Northern. As grand as this station was, by 1886 the railroad had outgrown it and began construction of an even larger facility on West Everett Street between North Second and North Fourth Street, the very heart of downtown. Designed by Edward Townsend Mix in the modern Gothic style, the imposing three-story building stretched some 321 feet (97.8m) long overall and incorporated Gothic Revival, Queen Anne and Romanesque Revival elements. Embracing all of the elaborate decoration so popular in the Victorian Era its combination of solid red brick, heavy masonry arches and other stonework projected strength and power to travelers. But the railroad was also a key part of the entire community, a point driven home by the station's signature clock tower dominating the city skyline – at 160' (48.7m) tall it was one of the largest in the US at the time – with two each 11' (3.3m) and 9' (2.7m) diameter illuminated electric clock faces visible for miles, a reminder of how critical railroads and standard time were to daily living. The interior of the structure was no less impressive and modern, designed to best handle large numbers of travelers. One of the key elements was the then-new concept of the 30 x 65' central concourse, allowing for fast and easy movement in and out of the station. The main ticket kiosk was located in the center, with a central window as well as two additional windows offering direct access from the ladies' and gentlemen's waiting rooms on the right of the central hall. The left or eastern side of the main floor housed a formal dining room operated in conjunction with a hotel on the second floor above, as well as a lunch counter, divided by the telegraph office and parcel room. The west wing of the second floor housed the offices of various train dispatchers, with most facing the park across the street. At the far west end of the first floor was the baggage room, equipped with an elevator to the second floor where baggage was stored until claimed. The west end of the second and third floors were specially appointed and equipped for the needs of newly arrived emigrants. Completed at a cost of \$500,000 in 1886, the structure housed its own electric light plant and steam boilers in the basement, the last word in modern amenities. To speed service, five new tracks were installed at street level on the south side of the building, creating a "through" or "side" station where trains could arrive and depart without extra switching or reverse movements. Passengers were protected from the weather by an equally impressive train shed, measuring 600' (182.8m) long by 100' (30.4m) wide. What little land remained alongside the station didn't stay empty for long, as a large express facility and turntable were constructed on the west end, with a separate powerhouse and later a Terminal Railway Post Office on the east. As Second and Fourth Streets were some of the busiest in the city, the Milwaukee completed the station complex with a two-story octagonal crossing tower at each end, providing the watchmen with a better view of approaching traffic and trains. Outside, the station remained largely unchanged until the early 1950s, when failing structural supports required lowering the clock tower, with the iconic clock faces reinstalled just above the roofline of the main building. By the 1960s, Everett Street (and the nearby Chicago & North Western station dating from the same era) was clearly showing its age. Plans were drawn for a brand-new Milwaukee Union Station intended to serve both railroads, which opened in 1965. Within a week, the now closed Everett Street station was severely damaged by fire, and razed a year later. One of the iconic clock faces had been removed before the fire, and today is displayed at the Betty Brinn Children's Museum in downtown Milwaukee. A Milwaukee landmark from 1886 to 1965, your new model shares many design elements with similar stations in medium and large American cities that served for decades. A perfect addition to any steam- or diesel-era layout, it can be the focal point of operations and the Train Shed can easily be expanded with the matching kit (#933-2949, sold separately). See your dealer, check out the latest Walthers Model Railroad Reference book or visit walthers.com for a wide range of passenger cars, figures, vehicles and accessories to set the scene.

WINDOWS AND DOORS

All windows are glued in place to the back of each wall, inside the raised L-shaped corner ridges. When installing glass, you may wish to use white glue to prevent damaging the clear plastic.

1) Side Walls (19) – make two: Glue Windows (42, 54) to first floor and glue Window Glass (2 x 43) to backs. Glue Side Door (75) in place; note that Door Glass (76) is offset at the top, align as shown and glue to back of Door. Glue Windows (3x 46) to openings on second floor and Window Glass (3x 47) to backs. Glue Arched Window (54) to opening on third floor, and Arched Window Glass (55) to back. Repeat for second Side Wall.

2) Left End Walls (17) – make two: Glue first floor Windows (2x 42) in place, and Window Glass (2x 43) to backs. Glue second floor windows (2x 46) in place and Window Glass (2x 47) to backs. Glue third floor Window (52) in place, and Window Glass (53) to back. Repeat for second Left End Wall.

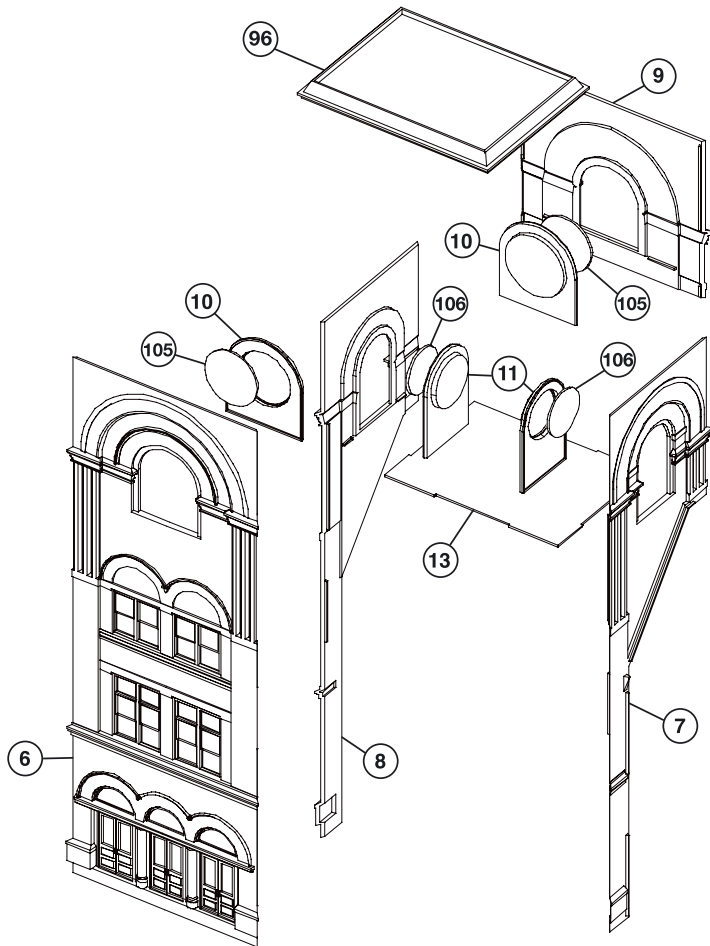


3) Right End Walls (18) – make two: Glue first floor large Window (42) in place, and Window Glass (43) to back. Glue first floor small Window (42) in place, and Window Glass (45) to back. Glue Door (73) in place; note that Door Glass (74) is offset at the top, align as shown and glue to back of Door. Glue second floor windows (2x 46) in place and Window Glass (2x 47) to backs. Glue third floor Window (52) in place, and Window Glass (53) to back. Repeat for second Right End Wall.

4) Center Walls (16) – make four: Glue large first floor Windows (2x 40) in place and large Window Glass (2x 43) to backs. Glue second floor Windows (4x 48) in place and Glass (4x 49) to backs. Glue third floor Windows (2x 77) in place and Glass (2x 78) to backs. Repeat for three remaining Center Walls.

5) Front Entrance Wall (6): Glue Entry Doors (69) in place, and Door Glass (70) to back. Glue Arched Entry Window (71) in place, and Arched Entry Glass (72) to back. Glue second floor Windows (2x 48) in place and Glass (2x 49) to backs. Glue third floor Windows (2x 50) in place and Glass (2x 51) to backs.

Short Tower



CLOCK TOWER - PLEASE NOTE: The clock tower can be assembled in either the tall as-built (1886 -1953) or shortened (1953 - 1965) versions; choose one and follow the appropriate steps below.

6) Modified Short Tower

6A) PLEASE NOTE: For a custom structure, you may wish to leave off the clock faces and glass covers. Glue Large Clock Inserts (2x 10) to backs of Front (6) and Rear (9) Tower Walls. Glue Small Clock Inserts (2x 11) to backs of Right (7) and Left (8) Side Walls.

6B) Cut out printed clock faces; using a drop of white glue, attach two large faces to front of Large Inserts (2x 10) and two small faces to front of Small Inserts (2x 11). Note that all four glass covers have a slight taper, which fits into the front of each insert; glue Large Glass Covers (2x 105) to Large Inserts, and Small Glass Covers (2x 106) to Small inserts.

6C) Use tabs and slots on backs to align parts and glue Right (7) and Left (8) Side Walls to back of Front Wall (6). Note inset areas on all four edges of Tower Floor (13) fit over the raised ridges of each opening, the longer outside edges rest on top of the raised ridges. Align as shown and glue in place.

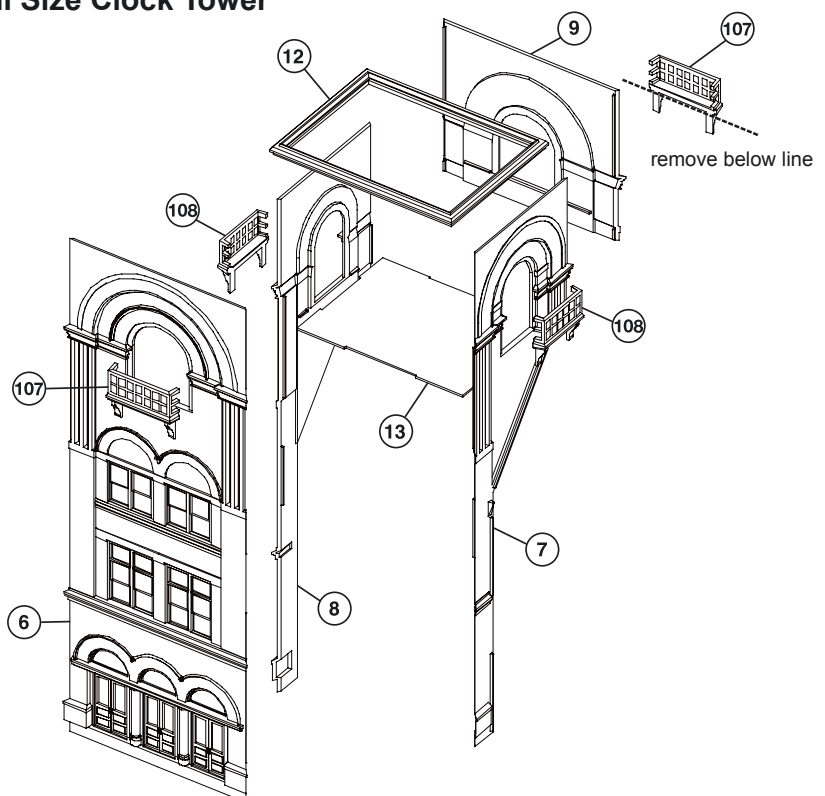
6D) Align edges of Rear Tower Wall (9) with tops of Side Walls and glue where parts meet. Align Short Tower Roof (96) with tops of Short Tower Wall assembly and glue in place; set the tower aside.

Full Size Clock Tower

7) As-Built Tall Tower

7A) Use tabs and slots on backs to align parts and glue Right (7) and Left (8) Side Walls to back of Front Wall (6). Note inset areas on all four edges of Tower Floor (13) fit over the raised ridges of each opening, the longer outside edges rest on top of the raised ridges. Align as shown and glue in place.

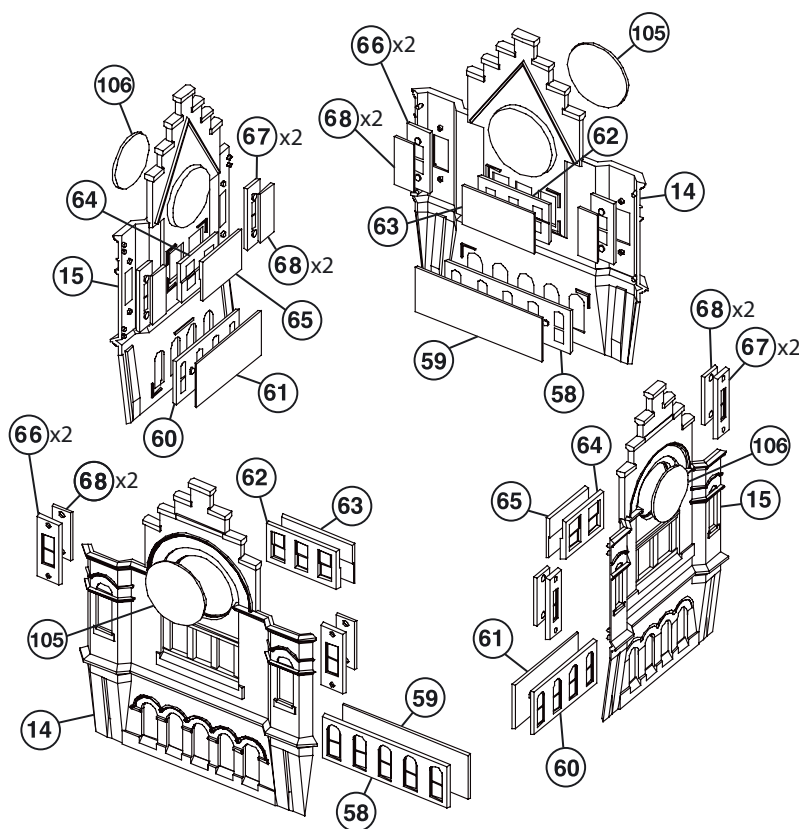
7B) PLEASE NOTE: Carefully remove the braces from the lower edge of Rear Balcony Railing (107); align with bottom of opening in Rear Tower Wall and glue in place. Align lower edge of Balcony Side Railings (2x 108) with bottom of openings in Side Tower Walls and glue where parts meet. Align Clock Support (12) as shown, and glue to top of Tall Tower Wall assembly. Set aside for now.

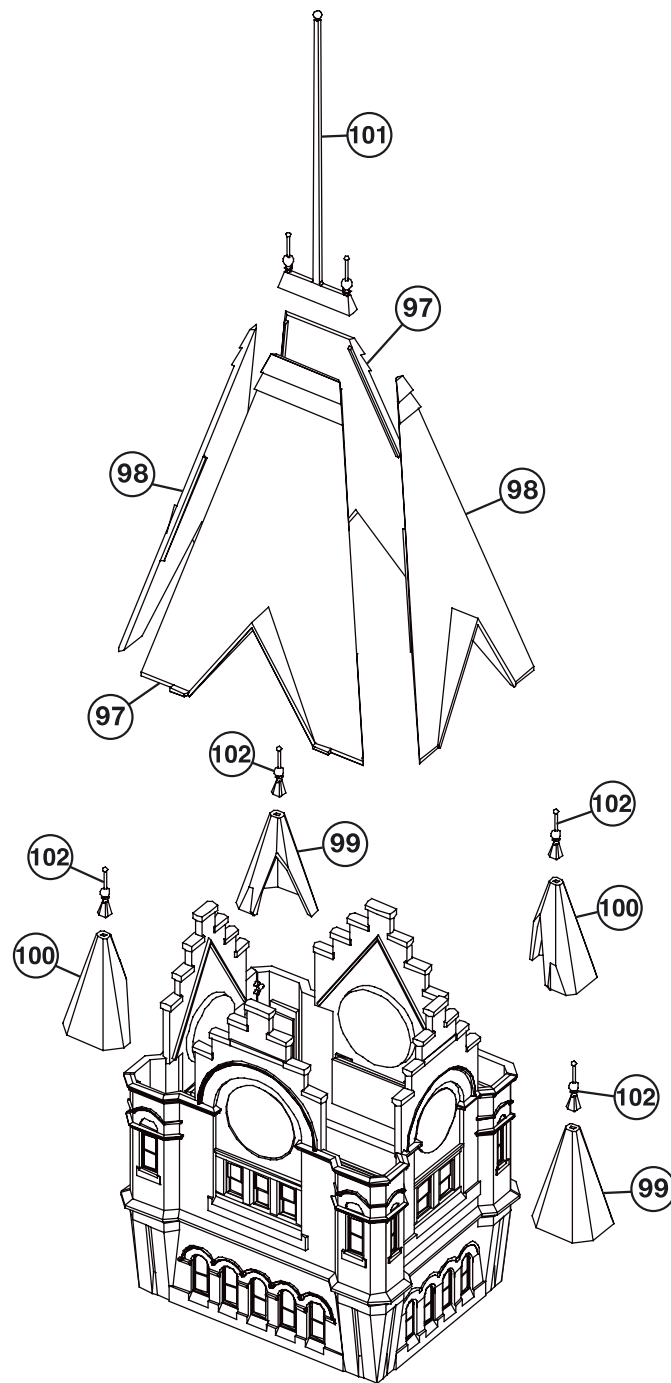


7C) Front and Rear Tall Clock Walls (14) – make two; Glue Arched Window (58) and Arched Window Glass (59) together and to lowest level as shown. Align openings on Single Pane Windows (2x 66) and Glass (2x 68) with pins on walls and glue together as shown. Glue Three-Pane Clock Window (62) and Glass (63) together and to center opening as shown.

7D) Left and Right Side Clock Walls (15) – make two; Glue Arched Window (60) and Arched Window Glass (61) together and to lowest level as shown. Align openings on Single Pane Windows (2x 66) and Glass (2x 68) with pins on walls and glue together as shown. Glue Two-Pane Clock Window (64) and Glass (65) together and to center opening as shown.

7E) Cut out printed clock faces; using a drop of white glue, attach two large faces to insert areas on Front and Rear Walls and two small faces to inset areas on Left and Right Side Walls. Note that all four glass covers have a slight taper, which fits into the front of each opening; glue Large Glass Covers (2x 105) to Large Walls, and Small Glass Covers (2x 106) to Small Side Walls.





7F) Align parts and glue Right and Left Side Walls to back of Front and Rear Clock Walls.

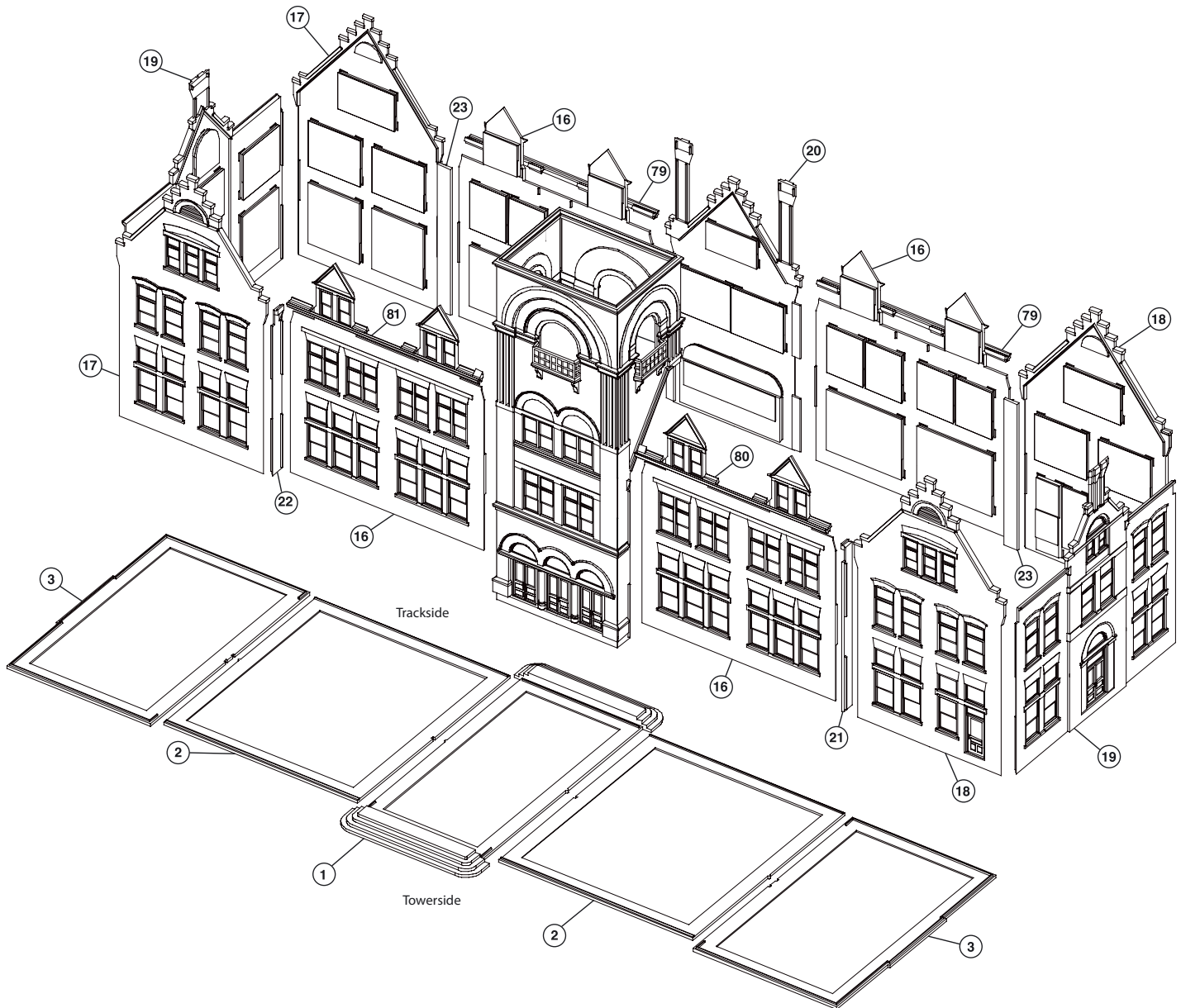
7G) Use raised ridges on backs to align parts and glue Front and Rear (2x 97) and Left and Right (2x 98) Spire Roof sections together. Note the raised ridges on the backs of each wall assembly; align the lower edges of the Spire Roof with these ridges and glue where parts meet. Glue Turret Roofs (99, 100) as shown. Insert pins on bottom of Turret Finials (4x 102) to openings in Turret Roofs and glue where parts meet. Spire Crest (101) will be installed in Step X.

BASE ASSEMBLY

PLEASE NOTE: Before starting, note the correct alignment of the tabs and mounting points on each of the five Base sections; the finished base assembly will be flush on the back or track side, while both Ends (2x 3) extend slightly outward from the Main (1) and Center (2x 2) Bases on the front or street side. Also note the correct alignment of the Main Base (1) with the two ridges beside the front stairs facing forward as shown. Work on a flat surface.

8) Align tabs on edge of Main Base with inset on Center Bases (2x 2) as shown and glue where parts meet.

9) PLEASE NOTE: End Bases (2x 3) have two insets; align the top inset with the tab on Center Bases (2x 2) as shown and glue where parts meet. Allow completed base assembly to dry before proceeding.



MAIN BUILDING

10) Trackside Wall (rear as shown) from right; use tabs and slots on back of Right End (19), and Right Trackside Wall (18) and raised ridges on Base (3, 2) to align parts; glue at inside corners and where parts meet. Glue Trackside Walls (16, 20, 16 and 17) as shown together and to Base; reinforce the joint between Walls 16 and 18, and 16 and 17 by gluing Wall Joiners (2x 23) overlapping the seam. Glue Rear Gutters (2x 79) to Trackside Walls (2x 16).

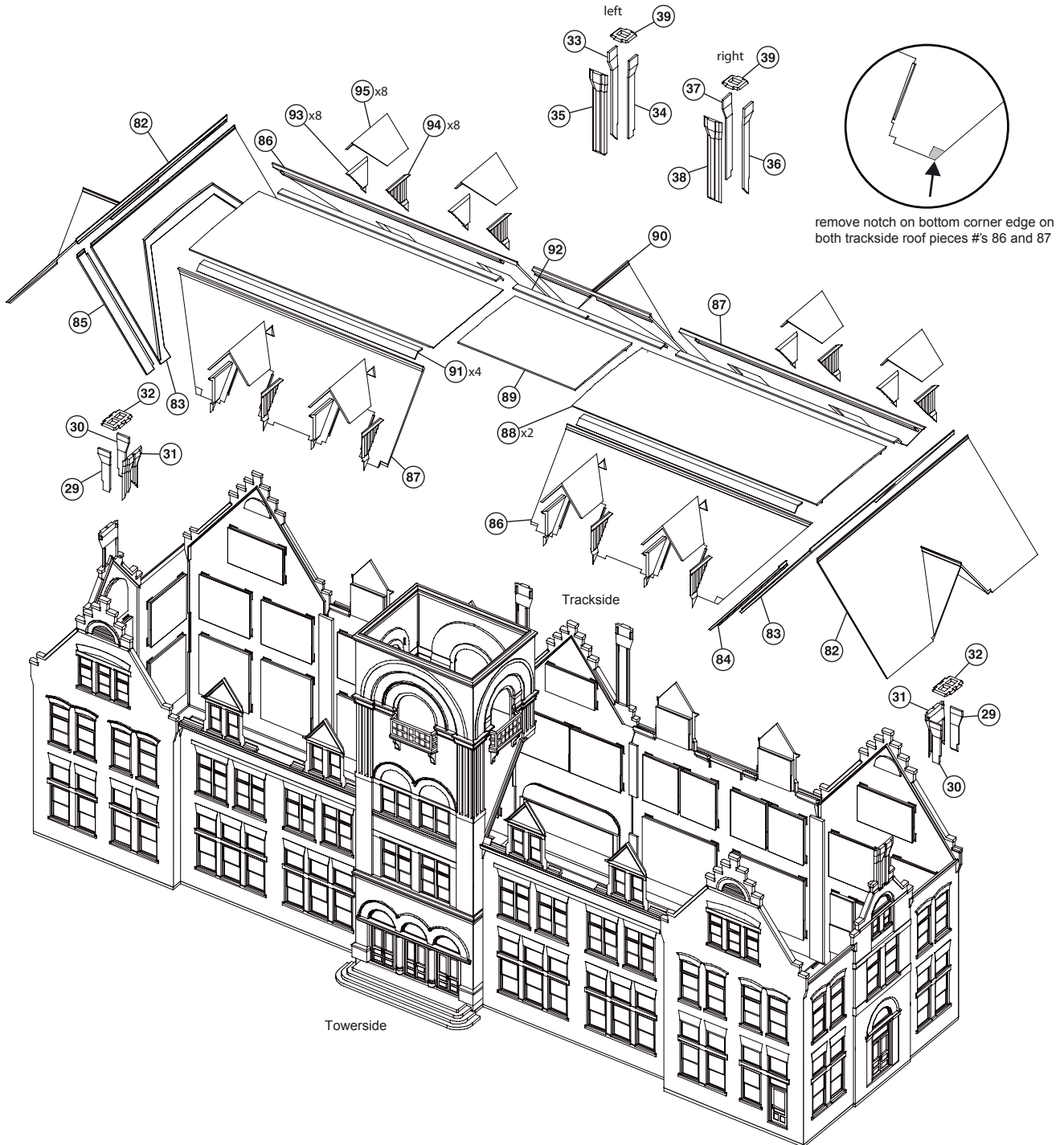
11) Street Side Wall (front as shown) from right; Glue Right Wall Return (21) to Right Front Corner Wall (18), and glue Left Wall Return (22) to Left Front Corner Wall (17) as shown. Align parts with raised ridges on Base (3, 2) and glue together. Align Wall Return with left and right edges of Front Center Walls (2x 16), and raised ridges on Base and glue where parts meet. Glue Right Front (80) and Left Front (81) Gutters to Front Walls (2x 16). Align either Short or Tall Clock Tower assembly with edges of Walls (2x 16) and Base (1) and glue where parts meet.

12) Glue Right (84) and Left (85) Inner Roof Add-ons to front edge of Inner Roofs (2x 83) as shown. Align tabs and slots and glue Inner Roofs to Outer Roofs (2x 82).

Make sure these assemblies are resting on raised ridges on inside of walls, and glue in place on both end walls.

13) Glue Center Roof Support (92) to underside of Center Flat Roof (89). Align edges with Center Flat Roof, and glue Trackside Center Roof (90) to Center Support (92). Test fit this assembly above the ridges on the center wall section and the clock tower: align with edges of tower and glue where parts meet.

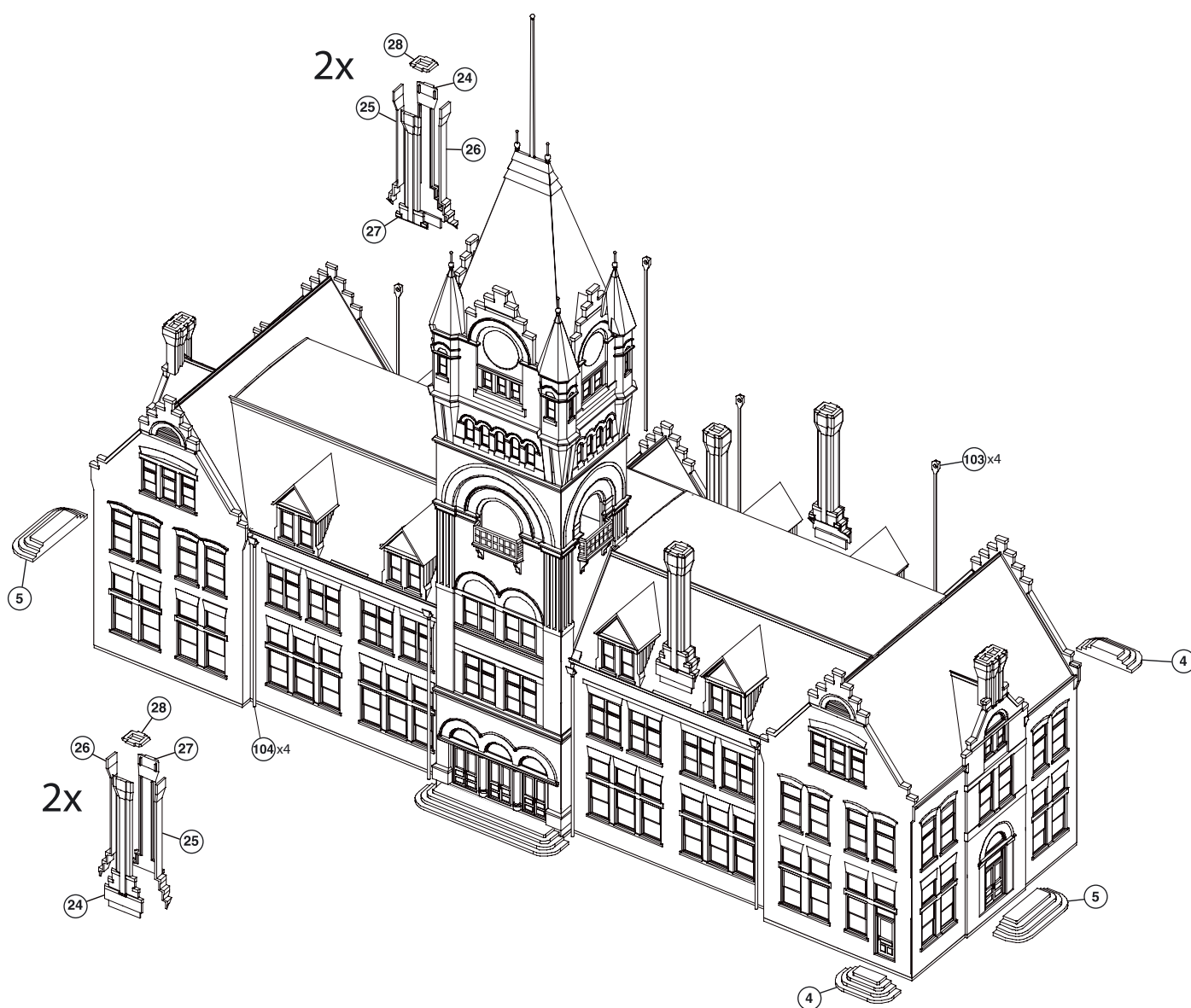
14) PLEASE NOTE: Remove notch in bottom corner of Trackside Left (86) and Right (87) Slope Roofs - see insert illustration. Glue Roof Supports (4x 91) underneath the Street side (2x 86) and Trackside (2x 87) Slope Roofs. Align these assemblies on the ridge of the Inner Roofs, raised ridge on Tower Sides and on top of Gutters and glue in place. Glue slightly curved ends of Flat Roofs (2x 88) to Inner Roofs (2x 83) as shown and to Roof Supports.



19. Align inside edges with raised ridges on Slope Roofs and glue Left (8x 93) and Right (8x 94) Dormer Sides (93, 94) as shown. Complete assembly by gluing Dormer Roofs (8x 95) to tops of Dormers.

20) Assemble two End Chimneys from parts 29, 30, 31 32 as shown; glue finished assemblies to raised ridges on backs of chimneys molded on end walls.

21) Assemble Left (parts 33, 34, 35, 39) and Right (parts 36, 37, 38, 39) Center Trackside Small Chimneys as shown; glue finished assemblies to raised ridges on backs of chimneys molded on Trackside Center Wall.



22) Assemble four Large Chimneys (parts 24, 25, 26, 27, 28, as shown; glue two finished Large Chimneys to mounting points on Front and Trackside Sloped Roofs, between Dormers.

23) PLEASE NOTE: Measure and trim two Trackside Downspouts (103) to fit rear steps on Center Base. Glue all four Trackside Downspouts and Street Side Downspouts (4x 104) over joints between walls and under gutters.

23) Center Large (2x 5) and Small (2x 4) under end wall doorways as shown, and glue in place.

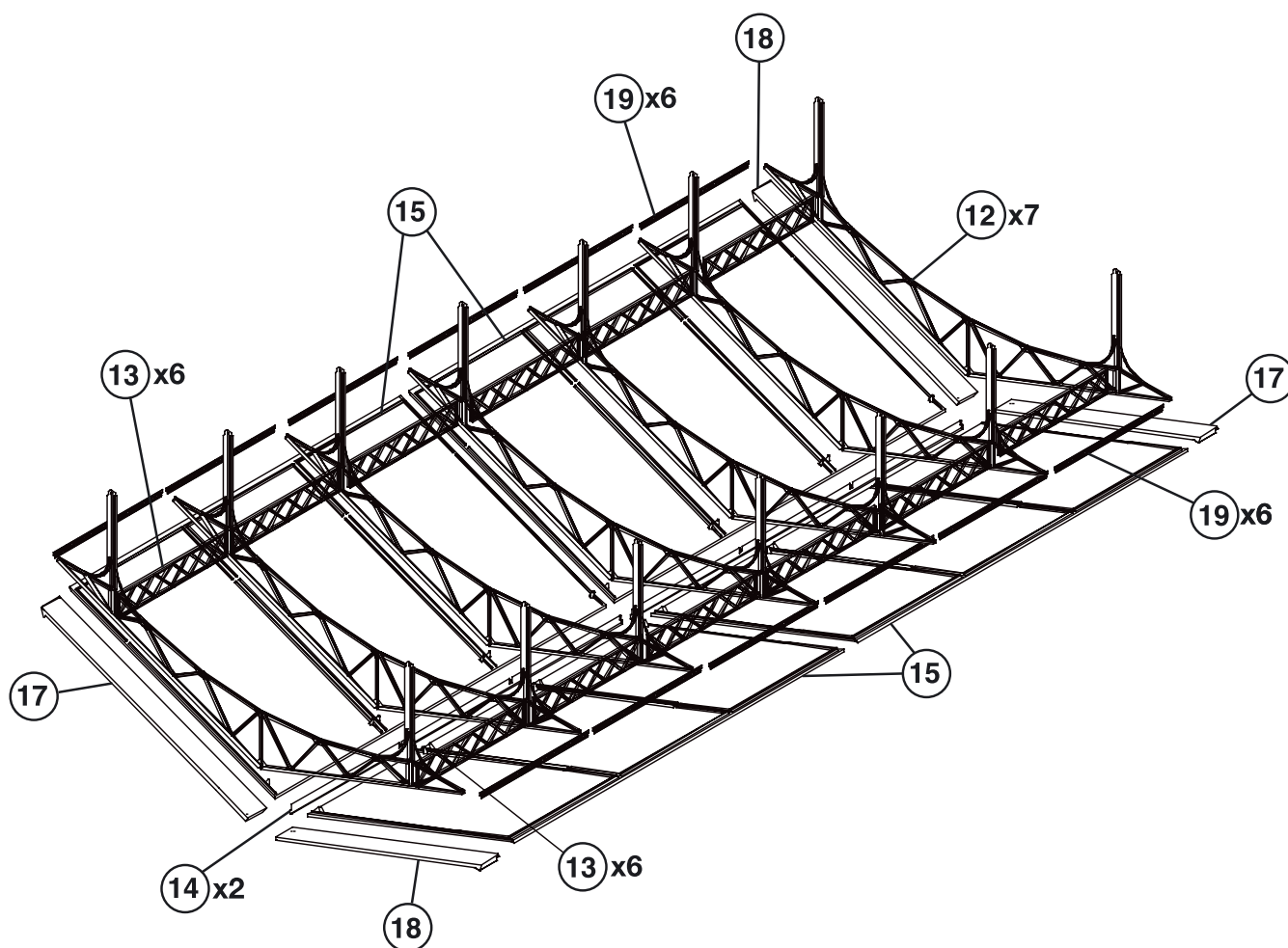
TRAIN SHED

All parts are styrene plastic, so use only compatible cement and paint to assemble your model. Please take a few minutes to read these instructions and study the drawings before starting construction. If you wish to paint your model, you may find it easier to build and paint major parts as subassemblies. This structure is designed so that several kits (#933-2949, each sold separately) can be combined to build a longer shed if desired. For planning purposes, you may wish to have these on hand before starting construction.

PLEASE NOTE: The illustrations in each step show construction of a single kit. If you are building a longer structure, please follow the written instructions provided.

Standard Structure:

1) Glue Main Roof Sections (2x 15) together. Glue End Roof Panels (2x 17, 2x 18) to both ends of the Main Roof.



Longer Structure:

Glue Main Roof Sections (2x 15) together. Glue one set of End Roof Panels (17, 18) to one end of this assembly. Glue the Main Roof to the opposite end; repeat as needed. Glue End Roof Panels (17, 2x 18) to the last section of your extended Main Roof.

All Versions:

2) Glue Center Beams (2x 14) to the inside peak of the Main Roof.

3) Note the ridges on the underside of the Main Roof, and glue a Main Support (7x 12) between each pair of ridges.

4) Glue the Main Braces (12x 13; 6 per side) between the Supports.

5) Glue End Braces (12x 19; 6 per side) between each pair of Supports and to the main Roof.

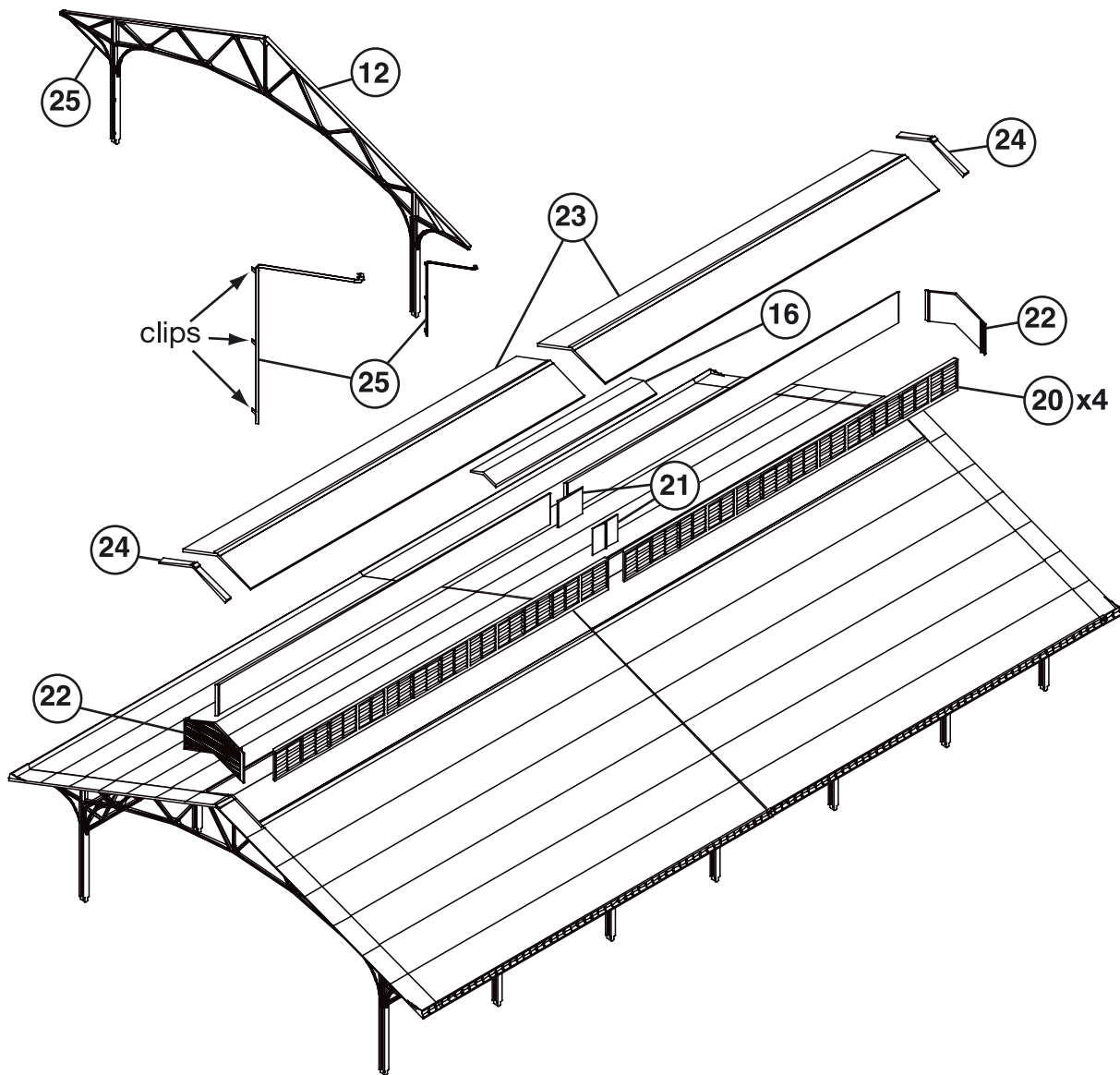
6) Note the three clips on one side of each Downspout (6x 25) are the gluing points. Before gluing, test fit each Downspout (6x 25). Trim the top if needed so that it's even with the bottom of the support I-beam, so that the structure will sit correctly on the platform mounting pads. Glue a Downspout to the left and right outside edge of the second, fourth and sixth support I-beams.

7) Clerestory

Glue Splice Plates (16, 21) to overlap inside seams as shown for a stronger joint between parts.

7A) Standard Structure:

Glue Clerestory Wall Splice Plate (2x 21) between Clerestory Walls (4x 20). Glue Clerestory Ends (2x 22) to ends of Clerestory Walls. Glue Clerestory Wall assembly to Main Roof as shown. Glue Clerestory Roof Splice Plate (16) between Clerestory Roof (2x 23) sections. Glue Clerestory Roof Extensions (2x 24) to ends of Clerestory Roof. Glue completed Clerestory Roof assembly to Clerestory Walls.



7B) Longer Structure:

Glue Clerestory Wall Splice Plates (21) between each pair of Clerestory Walls (20). Glue a Clerestory End (22) to one end of a Clerestory Wall. Glue first sections of Clerestory Wall assemblies to Main Roofs as shown, repeat as needed. Glue first Clerestory Roof assemblies to Clerestory Walls, repeat as needed. Glue Clerestory End (22) to last section of Clerestory Wall. Glue Clerestory Roof Splice Plates (16) between Clerestory Roofs (23). Glue Clerestory Roofs to Clerestory Walls, repeating as needed. Glue Clerestory Roof Extensions (2x 24) to ends of completed Clerestory Roof.

8) Side Platforms

Glue Outside Splice Plates (11) to overlap seams below Outside Platforms as shown for a stronger joint between parts.

Standard Structure:

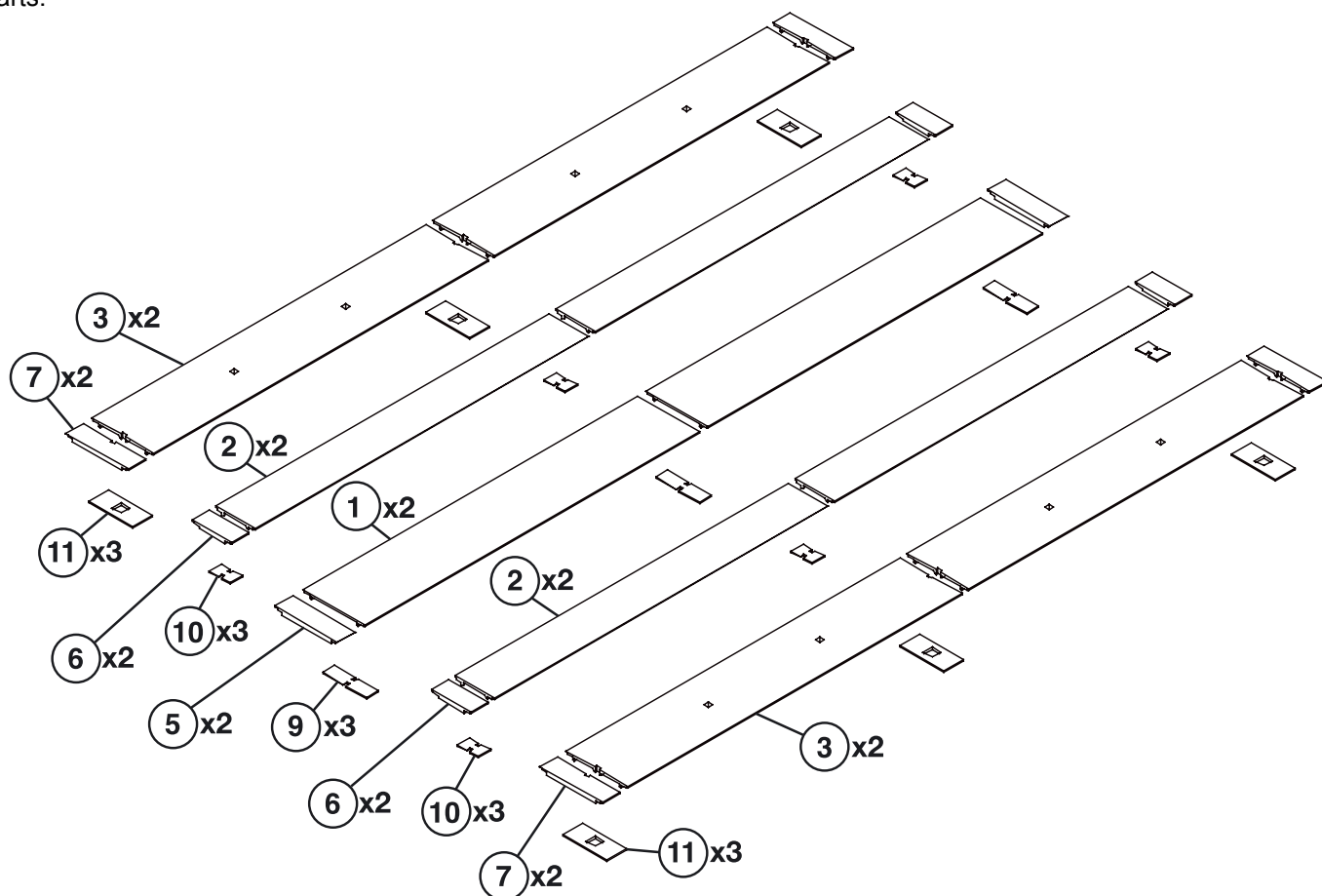
Glue Outside Platform Splice Plate (2x 11, one each side) between ends of each pair of Outside Platforms (4x 3; two per side). Glue Outside Platform Ends (4x 7: two per pad) to both ends of each Outside Platform.

Longer Structure:

Glue an Outside Platform Splice Plate (11) between each pair of Outside Platforms (3; two per pad) and repeat as needed. Glue Outside Platforms Ends (7: two per pad) to both ends of completed Outside Platforms.

9) Inside Platforms

Glue Inside Platform Splice Plates (3) to overlap seams below Inside Platforms as shown for a stronger joint between parts.



Standard Structure:

Glue Inside Platform Splice Plate (2x 3, one each side) between ends of each pair of Inside Platforms (4x 2; two per side). Glue Inside Platform Ends (4x 6: two per pad) to both ends of each Inside Platform.

Longer Structure:

Glue Inside Platform Splice Plate (3) between ends of each pair of Inside Platforms (2; two per side) and repeat as needed. Glue Inside Platform Ends (4x 6: two per pad) to both ends of completed Inside Platforms.

10) Center Platform

Glue Inside Platform Splice Plate (9) to overlap seams below Center Platform as shown for a stronger joint between parts.

Standard Structure:

Glue Center Platform Splice Plate (9) between ends of Center Platforms (2x 1). Glue Center Platform Ends (2x 5) to both ends of Center Platform.

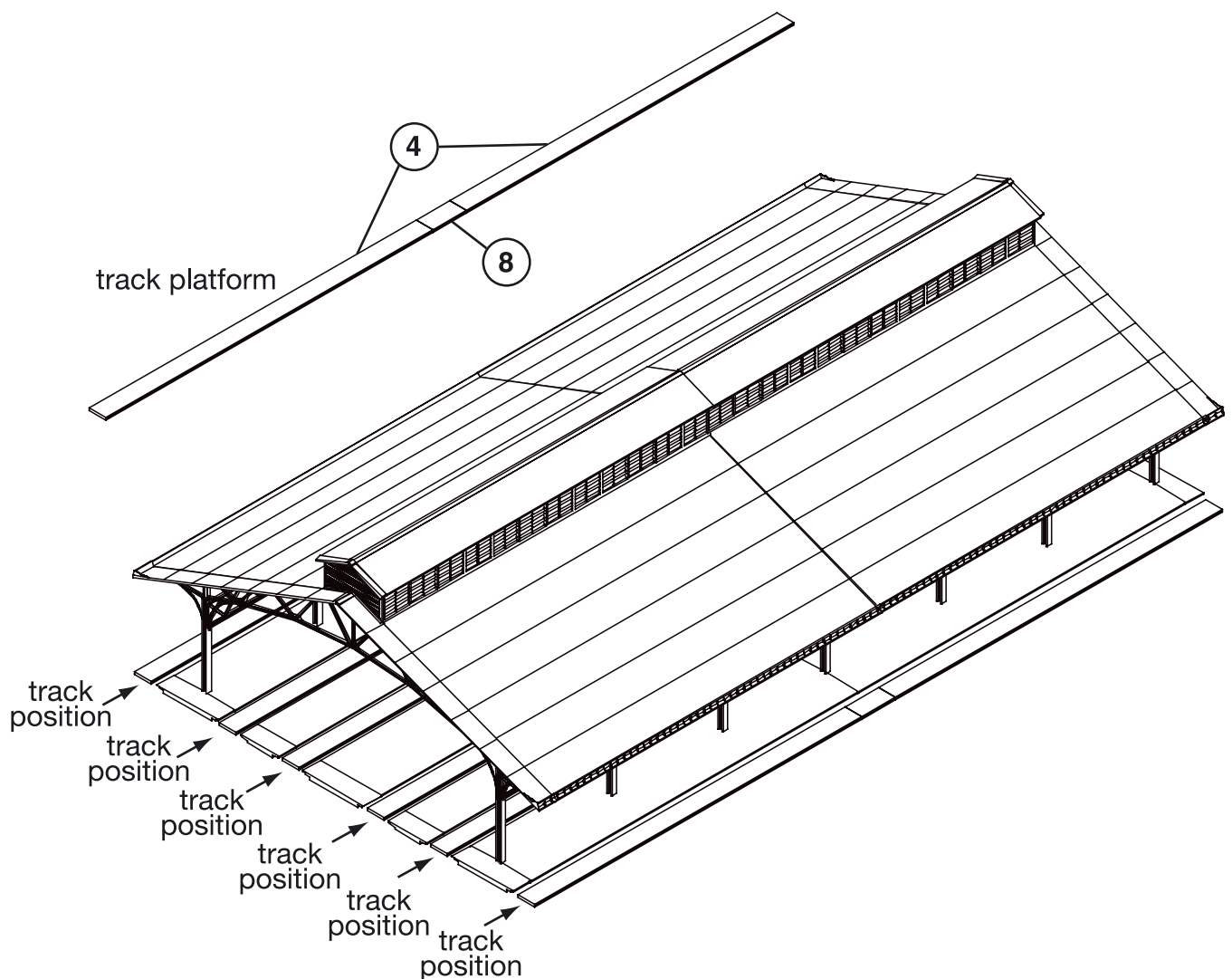
Longer Structure:

Glue Center Platform Splice Plates (9) between ends of each Center Platform (2x 1) and repeat as needed. Glue Center Platform Ends (2x 5) to both ends of completed Center Platform.

10) Select a location for your model. Use the platform assemblies to temporarily align four lengths of track, each slightly longer than your platforms. Make sure the edges of all Platforms are tight against the rails. Place the Center Platform between the inside rails of the two middle tracks. Place each Inside Platform against the outside rails. Place each Side Platform on the next outside rail. Be sure the ends of all Platforms align with each other.

11) **DO NOT GLUE!** Test fit the completed Shed assembly in the openings in the Side Platforms - adjust as needed so the shed sits squarely with the columns in the openings.

Test your tracks for proper operation then secure the tracks and Platforms to your layout. An additional track can now be added along the outside of both Side Platforms as shown. Glue Track Center Platforms (12x 4) to Pad (6 x 8) and place between the rails; repeat as needed for a longer structure. Set - do not glue - the completed Shed in the Platform openings so it can be removed for track cleaning and other future maintenance.



SIGNS

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.