



N Structure Kit

URBAN UNDERPASS RETAINING WALLS

933-3882

Thanks for purchasing this Cornerstone kit. Please take a few minutes to read these instructions and study the drawings before starting construction. All parts are styrene plastic, so use compatible paint and glue to finish and assemble your model. PLEASE NOTE: These instructions and drawings show a basic assembly and the flexible design allows you to easily combine additional kits to build a longer structure. As a result, no bridge deck is included, but can easily be made from .125" (3.1mm) styrene sheet, available at most hobby shops. The Bridge Abutment (#2) and Wing Wall (#4) shown with the Large and Small Retaining Wall assembly is not included, but you can use parts from either the Urban Steel Overpass (#933-3871), sold separately. For ease of planning and assembly, you may wish to have these items on hand before starting construction.

As railroad fever swept America in the 19th century, city fathers quickly granted easements to bring rail service into the heart of established business and industrial areas. Tracks often crossed or were built directly down the busiest streets and as rail traffic increased, so did the numbers of pedestrians and horse-drawn vehicles. Things got worse as automobiles chugged onto the scene and railroads and cities were soon looking for easy solutions to a complex problem. New construction materials and machinery soon brought overpasses to residential, suburban and industrial areas. These allowed the streets to remain in place, although the right-of-way was lowered, while railroads would "pass over" them on a new bridge, which came to be known as an "overpass," directly above. But in cities that wanted to eliminate grade crossings entirely, tracks were often rebuilt on elevated right-of-ways, many supported by long stretches of poured concrete retaining walls with matching concrete or steel overpasses about every 400' to 800' (121.9 to 243.8m) apart for through streets. In many locations this also required new or remodeled station buildings and platforms with stairways leading to and from the ground floor, or the sidewalks below (some station buildings were also refitted with elevators to simplify moving baggage). Many of these durable elevated lines are still in daily use, but have been updated to handle taller vehicles and heavier road and rail traffic. Others have been refurbished as part of hiking and biking trails. For more ideas and additional products to complete your scene, see your participating hobby dealer, check out the latest Walthers Model Railroad Reference Book or visit us online at walthers.com.

LARGE RETAINING WALLS

PLEASE NOTE: To build your model as shown, you'll need a Bridge Abutment (#2, not included in this kit) from the Urban Steel Overpass (#933-3871), sold separately. For a narrower installation Cross Braces (24) and Large End Wall (21) have molded cut lines at both ends; remove one or both if desired.

1) Align the V-shaped edges of the Large Connectors (26) along the inside angled end of a Large Retaining Wall as shown. Glue at inside edges where parts meet, make sure parts are straight, and allow to dry.

2) If using Bridge Abutment (#2; not included), align angled edges on Walls and glue at inside corners where parts meet. Glue remaining end of each Connector to angled end of a Large Retaining Wall (20). Align inside edge of Cross Brace (24) between the end of the Connector and raised ridge on inside end of each Retaining Wall, and glue where parts meet. Repeat this assembly as needed to the final wall section; in place of a Cross Brace there, align angled edges on Large End Wall (21) with last Large Wall sections and glue at inside corners where parts meet.

3) Because the model can be built in various ways, no bridge deck is included. For each pair of standard Large Retaining Walls, cut a piece of styrene sheet (not included) 4-3/4 x 3 x .125" (12 x 7.6 x 0.3cm). Test fit each section, and adjust as needed. While the decks are hidden by ballast on the prototype, you may wish to paint each piece a suitable concrete color before final installation. Once each section fits to your liking with no signs of bowing or warping, align the decks on the raised ridges of the various walls as shown and glue along the inside edges.

FINAL ASSEMBLY

4) This is a good point to test-fit your model on your layout, and temporarily align your track (sold separately) on the bridge deck – as the model depicts a ballasted deck bridge, standard track sections can be used – and to your approach tracks. Glue Exterior Railings (4x 25) along top edge of each Retaining Wall if desired. The deck can be detailed with ballast, figures and other details as desired, all sold separately.

SHORT RETAINING WALLS

1) PLEASE NOTE: Bridge Abutments (2) and Wing Walls (4) are not included in this kit; this sketch shows how those parts from the Urban Steel Overpass (#933-3871) sold separately, can be combined with the Short Walls (22), Connectors (27) and Braces (23) included in this kit. Please refer to the specific instructions in the Overpass for more assembly information.

2) Align the V-shaped edges of the Connectors (27) along the inside angled end of a Short Retaining Wall as shown. Glue at inside edges where parts meet, make sure parts are straight, and allow to dry. For additional support, glue an Angle Brace (23) behind each Connector. Repeat this assembly as needed to the final wall section.

