Engineering Trace · Measurement brief

Castle Clinton

Measure the exterior before pricing restoration. The restoration drawing and city model support a measurable exterior comparison. Each area below describes an outer outline and includes the courtyard inside that outline.

Measured quantities

Measured item	Quantity	Measurement basis
Drawing outline	2,413.726 m²	Area enclosed by the traced outside wall.
City outline	2,766.722 m²	Area inside the city exterior boundary on the same outer-envelope basis.
Outline agreement	87.2%	Shared area divided by combined area after alignment. This measures plan fit.
Concealed structure and reinforcement	Unmeasured	The reviewed evidence does not establish material build-ups, steel sizes or spacing.

Estimating decision

Use the model for exterior comparison. Commission a measured condition survey before seeking a restoration price.

A restoration BOQ needs the repair extents, masonry build-ups, specifications and field measurements. The exterior areas alone cannot establish payable masonry volumes or steel quantities.

Source and scope

The 2020 National Park Service restoration plan supplies the traced outline and a 20-foot graphic scale. New York City's building footprint and 2014 exterior model provide independent comparison geometry.

Read the full Castle Clinton study and measurement basis