

THE MAKING OF HUDSON YARDS

UNDERSTANDING THE “PLATFORM”

To complete Hudson Yards, two “platforms” must be constructed to bridge over 30 active Long Island Rail Road train tracks. Finished buildings will extend through the platform and rise above, with caissons drilled deep into bedrock between the rail lines to support the structures.

“PODIUM” BASE STRUCTURE

Location and construction of columns supporting this building—home to a collection of shops and restaurants on its lower floors—must be coordinated with tunnels, tracks and LIRR facilities, which will remain active through construction.

10 HUDSON YARDS FOUNDATION SYSTEM: DRILLED CAISSONS

This tower is the only building being constructed completely on terra firma—and not on the platform.

“PODIUM” STRUCTURE: UPPER TRUSSES

Tall trusses support hung sections of this building, which connects 10 Hudson Yards and 30 Hudson Yards, and will house a collection of shops and restaurants on multiple floors.

30 HUDSON YARDS

Columns and other support structures land between the rail lines—and are placed to avoid underground utilities—while trusses supporting the tower’s south face span the tracks.

STRUCTURE OVER THE YARDS

Trusses must bridge over this narrow section of the rail yard.

BUILDABLE AREAS

Due to the location of tracks, underground tunnels and utilities, only 38% of the site can be used to support structures.

UNDERGROUND INFRASTRUCTURE

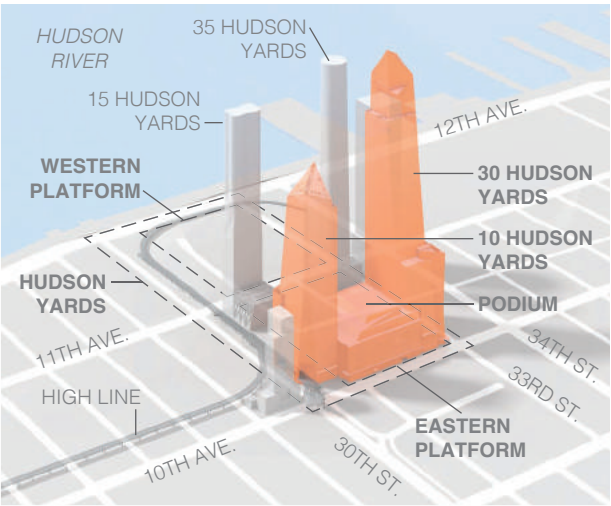
NORTH RIVER TUNNELS
EMPIRE LINE TUNNEL
FUTURE GATEWAY TUNNELS

SITE: 570,000 SF (13 ACRES)

11TH AVENUE
EASTERN RAIL YARD PLATFORM

LONG ISLAND RAILROAD TRACKS:
23,000 SF (5.5 ACRES) 42% OF SITE

NO. 7 TRAIN STATION
34TH STREET



Glossary

10 Hudson Yards. A 52-story (1.8 million square foot) office tower on the corner of 10th Avenue and West 30th Street that will house the world headquarters of Coach, Inc. and the North American HQ’s of L’Oréal USA and SAP.

30 Hudson Yards. A 90-story office tower (2.6 million square feet) on the corner of 10th Avenue and West 33rd Street. At 1,296 feet, the tower, headquarters for Time Warner, Inc., will be the second-tallest office building in New York City.

Caisson. A large-diameter pipe drilled into rock and filled with concrete. At Hudson Yards, more than 300 caissons will be installed to support buildings and the platform.

Eastern Rail Yard Platform. A 10-acre deck being built above Hudson Yards. It will support six acres of open space, four towers, a culture center and 1 million square feet of shops and restaurants.

Empire Line. Amtrak rail line that runs along Manhattan’s west side, linking Penn Station to Albany.

Gateway Project. Amtrak’s plan to build two new rail tunnels under the Hudson River to connect Penn Station and the Northeast Corridor. A concrete shell has been installed below Hudson Yards to secure a path for the tunnels.

Hudson Yards. The 28-acre rail yard—framed by West 30th Street to the south, West 33rd Street to the north, 10th Avenue to the east and 12th Avenue to the west—where LIRR trains are “parked” between runs. The yard also includes an indoor maintenance shop, 12-car-long cleaning platform and various employee-support facilities.

LIRR. Long Island Rail Road commuter system, North America’s busiest. It transports 350,000 riders daily.

No. 7 Subway Extension. A 1.5-mile extension to the Flushing (Queens) line, moving its final stop from Times Square to Hudson Yards. The project opened in September 2015 and will be able to accommodate more than 42,000 commuters during peak times.

North River Tunnels. Built in 1904 as part of the original Pennsylvania Station project, today these two passages funnel 445 trains and more than 600,000 riders daily.

Truss. A structural system of beams, bars or rods that support a roof or bridge.

HUDSON
YARDS