21st Century Infrastructure for a 21st Century City



- 1. History + Background
- 2. Objectives / Program
- 3. Challenges
- 4. Design Solution / Process
- 5. Conclusion



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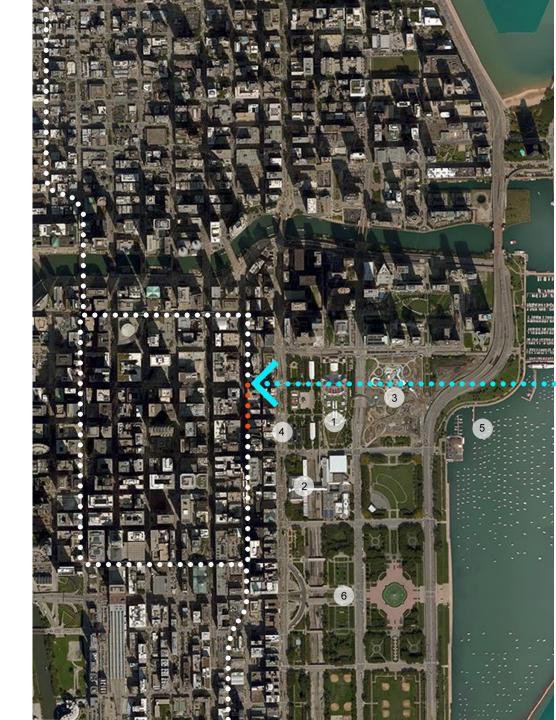




The CTA system weaves through Chicago and connects the neighborhoods of the City

- 2nd largest public transit agency in US
- 8 routes
- 1.6 million daily riders
- 220+ miles of track
- 145 stations
- Elevated, At Grade, Below Grade





Chicago Loop Aerial with CTA Elevated Train Route (left) Orange indicates extent of Washington/Wabash Station

Chicago Millennium Park Aerial Detail (below) Blue indicates path from Station to Park





- Michigan Avenue
 Millennium Park

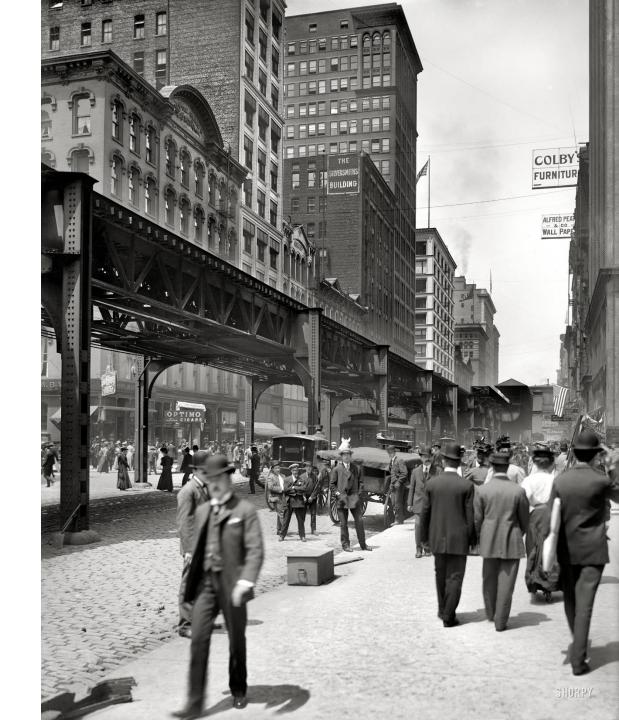
- Art Institute of Chicago
 Maggie Daley Park
 Lake Michigan
 Grant Park / Buckingham Fountain











WASHINGTON AVENUE TODAY Jeweler's Row









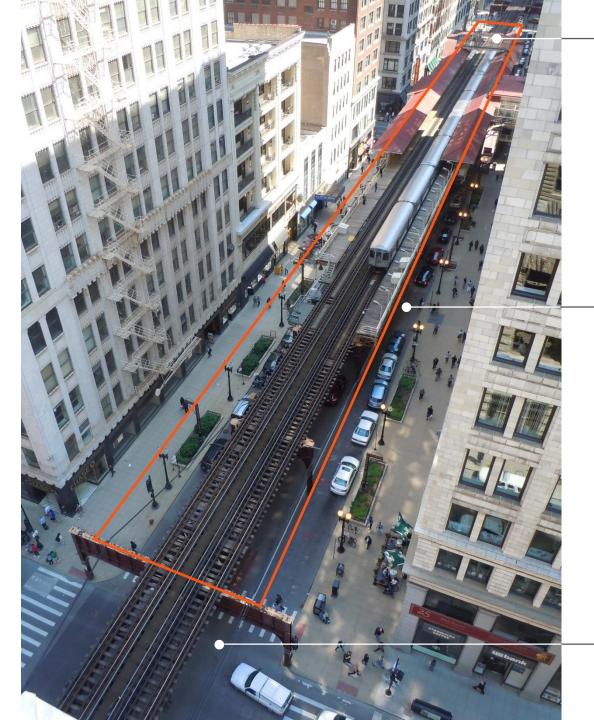
Randolph Street Station







PROJECT AREA



Washington Blvd

Wabash Ave

- Madison St





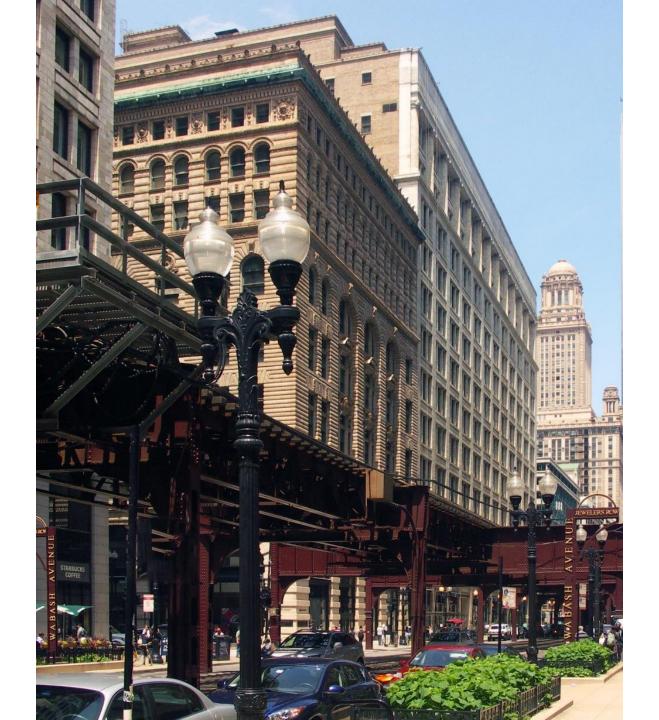
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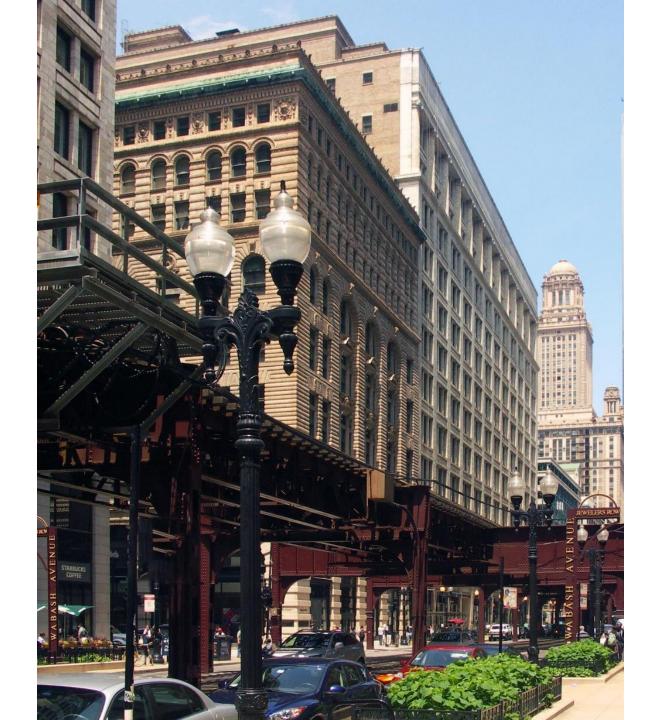
- Replace Madison and Randolph Stations
- Complete Accessibility
- Passenger comfort, safety, and security
- Efficiency, safety, reliability of operations





- Minimize alterations to historic track structure
- No impact to adjacent historic buildings
- Open views to Millennium Park and historic buildings
- Increase clearances over Randolph and Madison





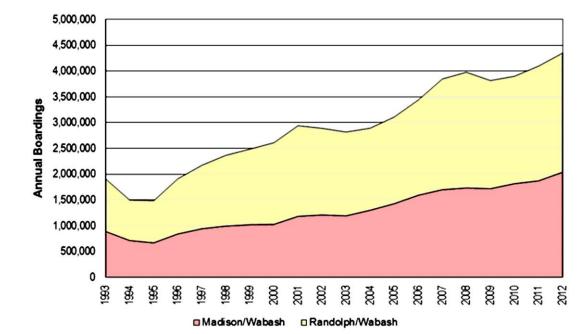
- Support neighboring businesses and institutions
- Improve the viability and visibility of public transit
- Support long-term viability of Loop Elevated for generations to come





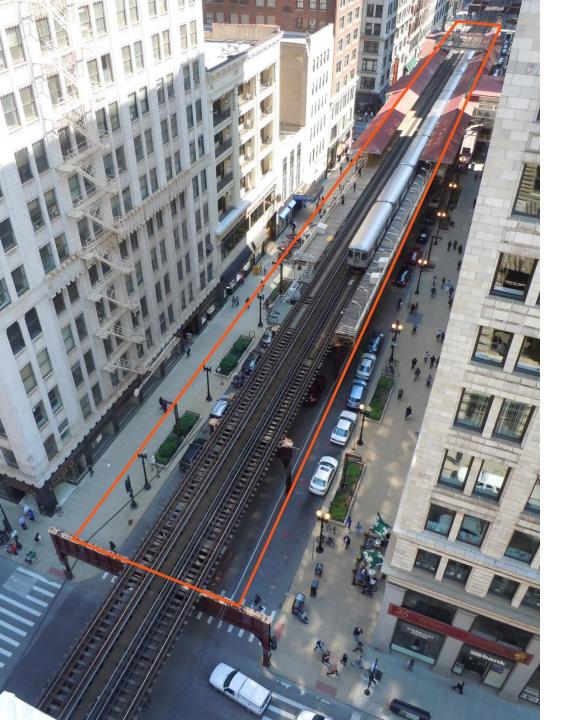








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EXISTING SITE CONSTRAINTS

MAINTENANCE OF OPERATIONS

- CTA Trains
- Pedestrians
- Vehicles
- Businesses





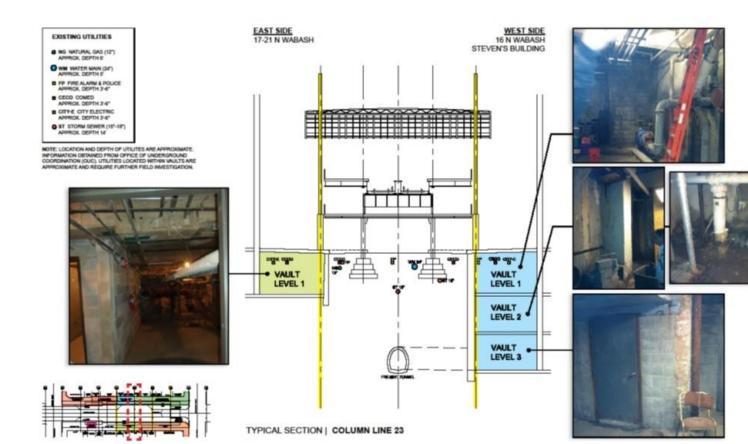
EXISTING HISTORIC STRUCTURE

- Steel
- Foundations







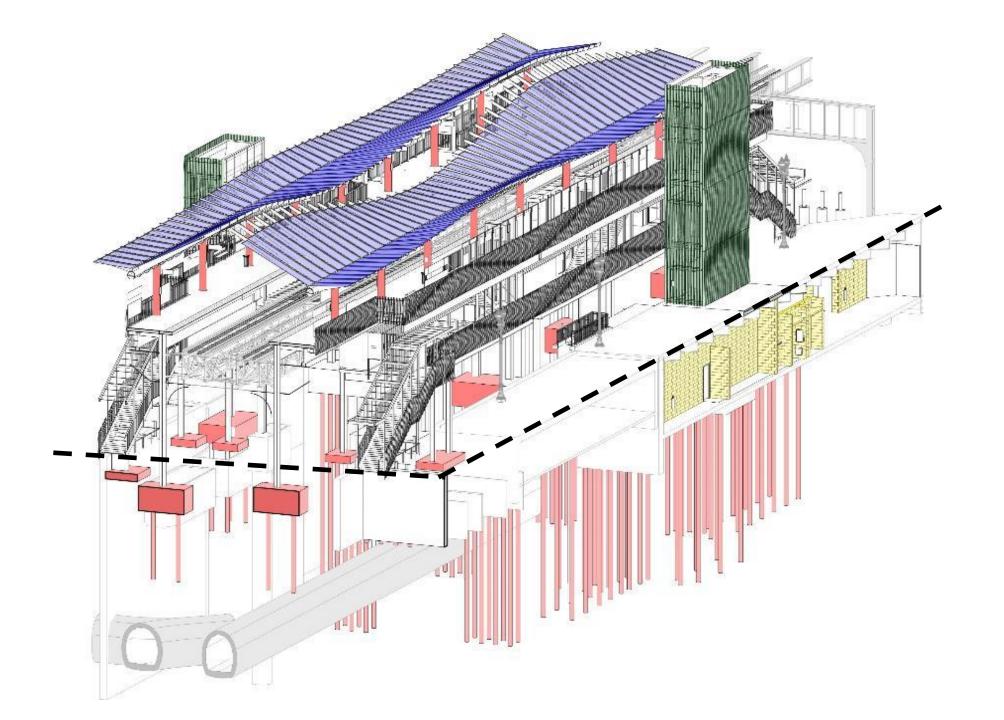


UNDERGROUND CONDITIONS

- Public Utilities
- Private Utilities
- Freight Tunnels
- Vaulted Sidewalks
- Poor Soils







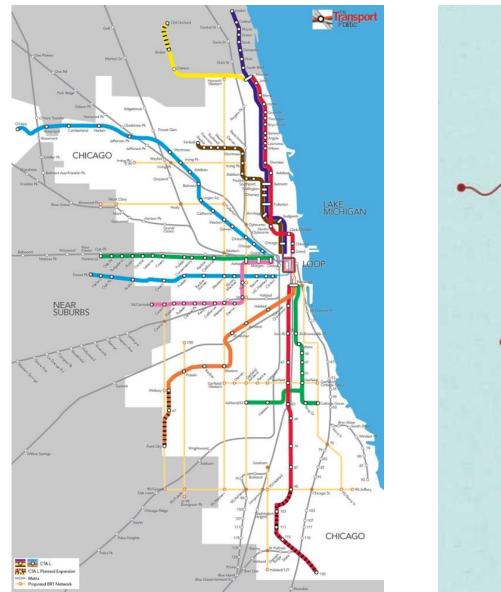
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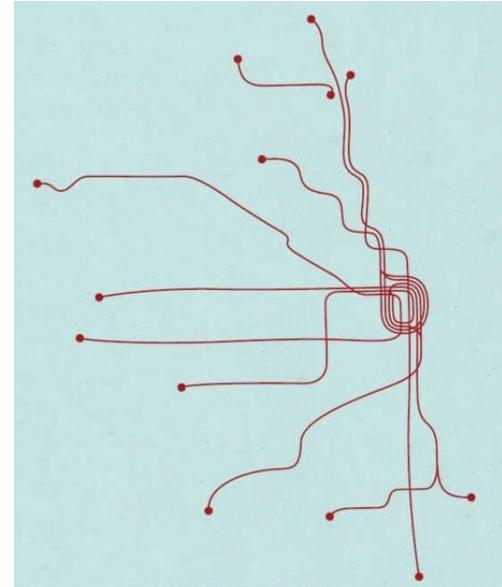
CONSTRUCTABLE / DURABLE / MAINTAINABLE / REPLACEABLE





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The thread that weaves the "City of Neighborhoods" together





The concept of **MOVEMENT** is at the heart of the transit system; connecting people, neighborhoods and historic landmarks



This new iconic station is a **GATEWAY**

*exp

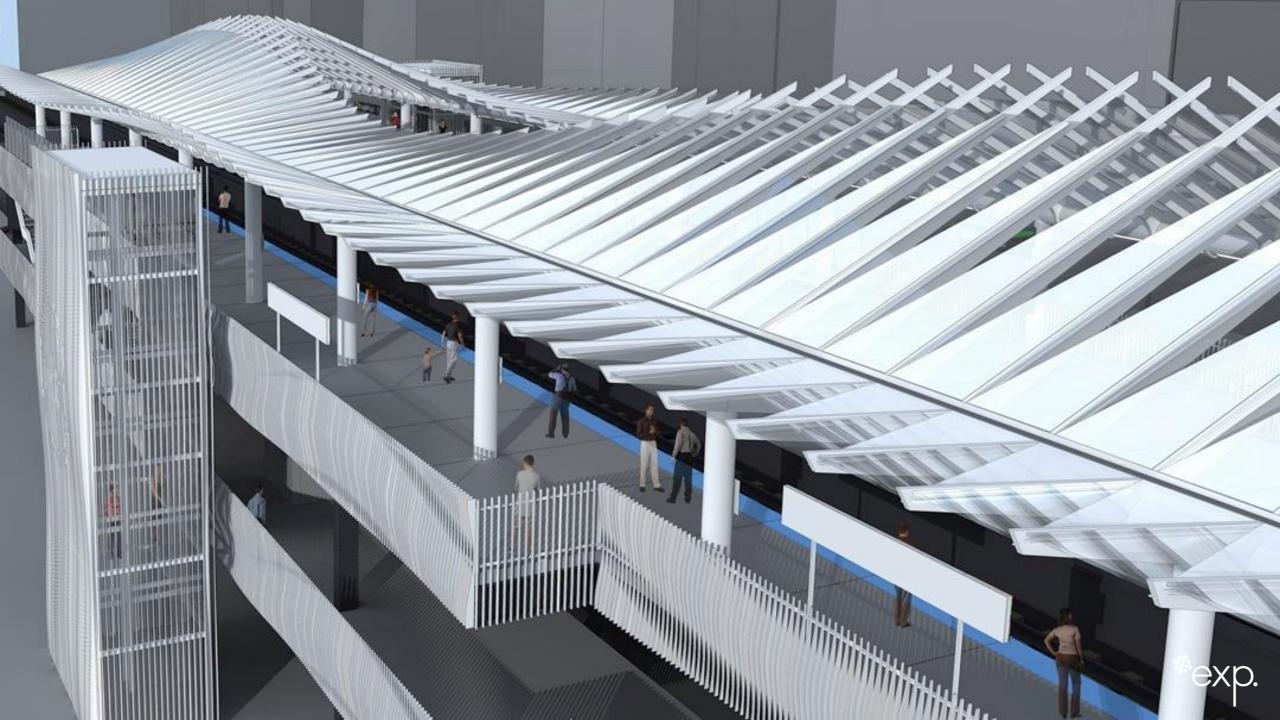
for Millennium Park and many of Chicago's attractions; a transition between the urban grid, the Park, and the Lake; a juxtaposition of **rigid** and **organic forms**.











Chicago Department of Buildings Friends of Wabash Mayor's Office Chicago Transit

Local Business Owners

Authority

Loop Alliance

CTA Operations Chicago Department of Transportation

ComEd

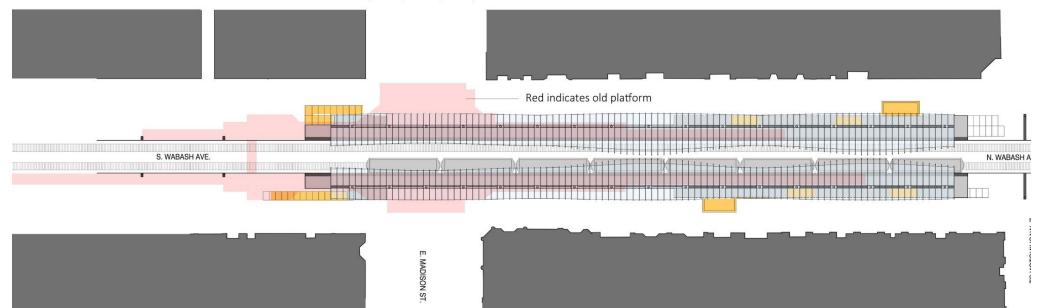
Chicago Board of Underground

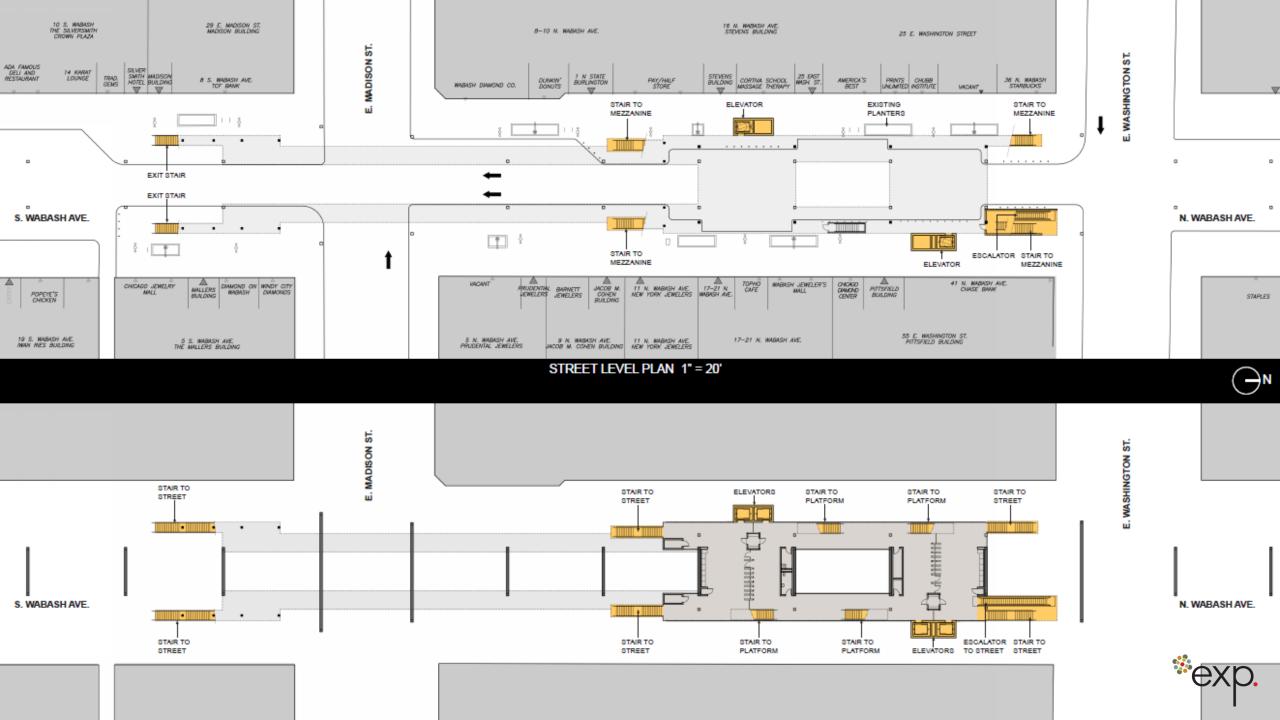
Private Utilities

NOT IN MY BACKYARD

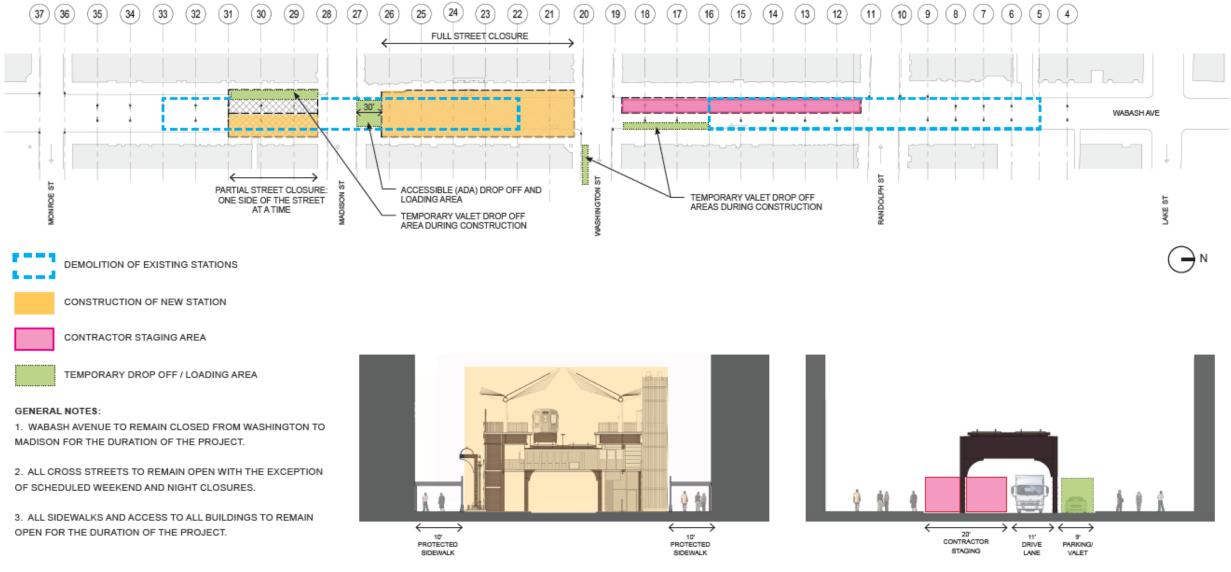


Wabash Avenue West Elevation / Section (above) + Plan (below)





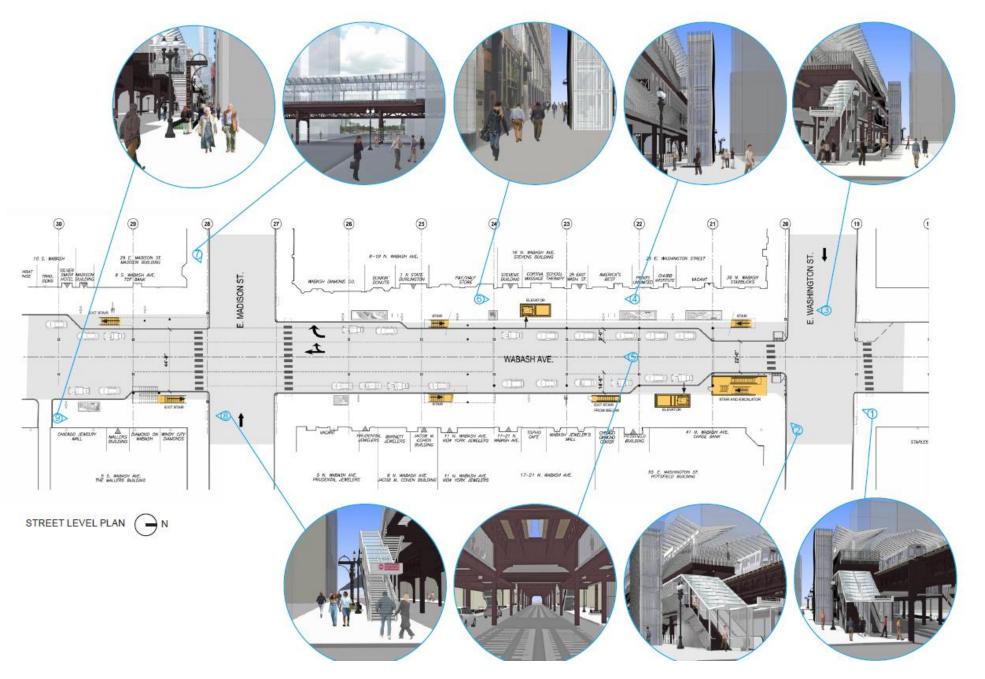
CONSTRUCTION PHASING



SECTION: FULL CLOSURE FOR CONSTRUCTION

SECTION: PARTIAL CLOSURE FOR STAGING





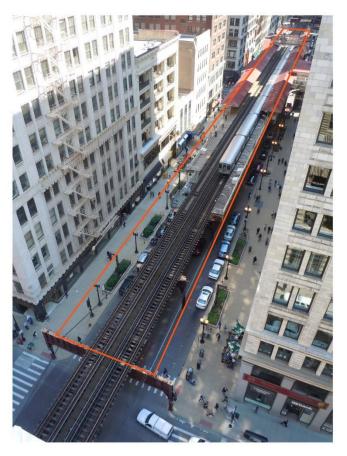
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Sidewall

<u>*</u>



Birdseye view indicating scope before (above) and after (right).







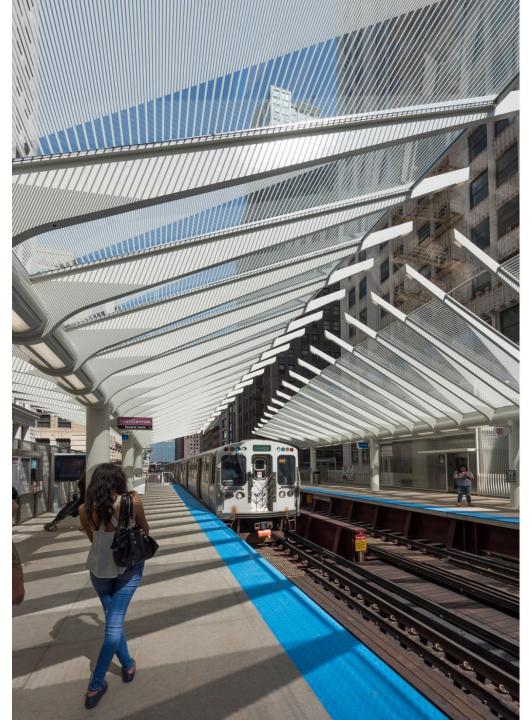




View from below (street) and above (buildings)

100.7



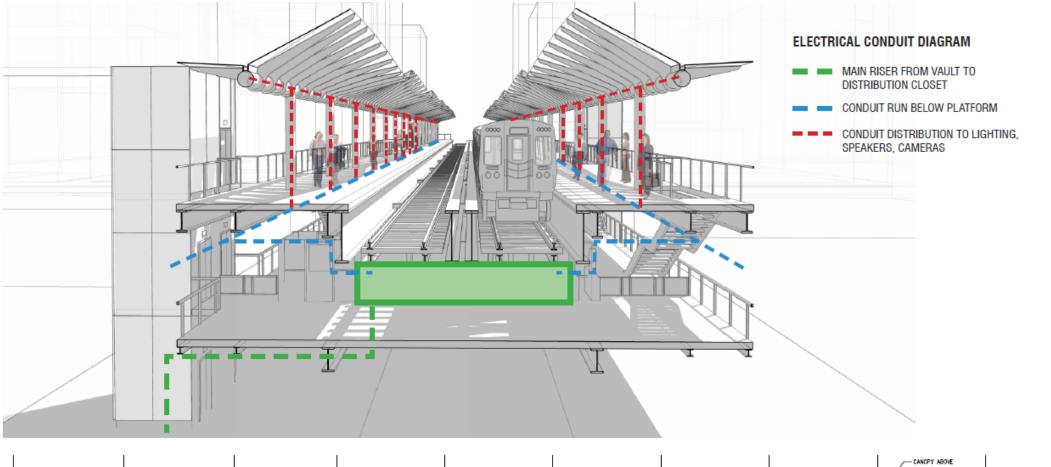


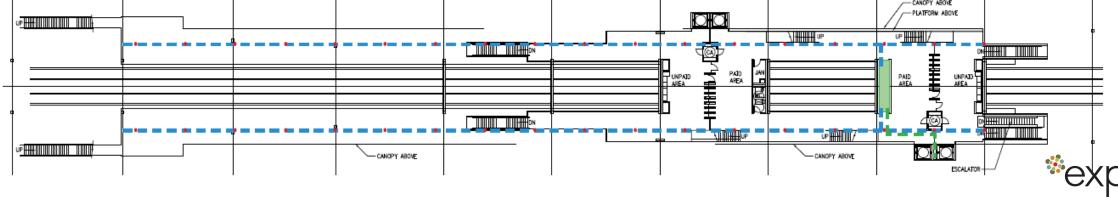












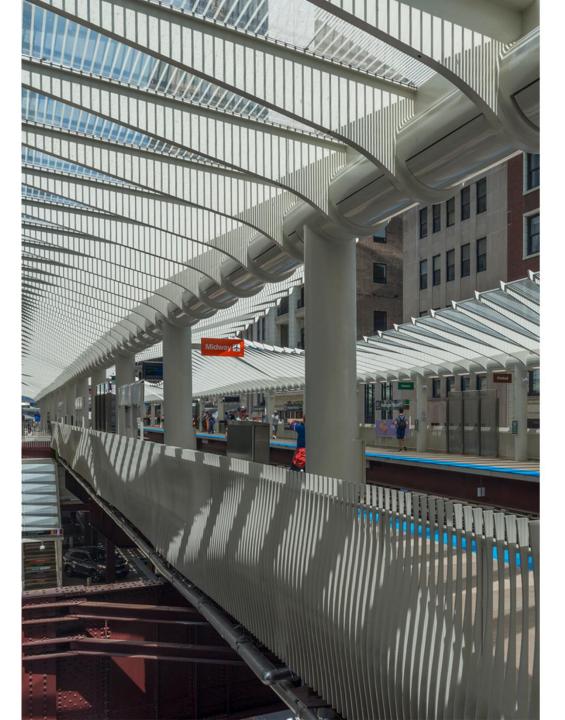
CONSTRUCTABILITY







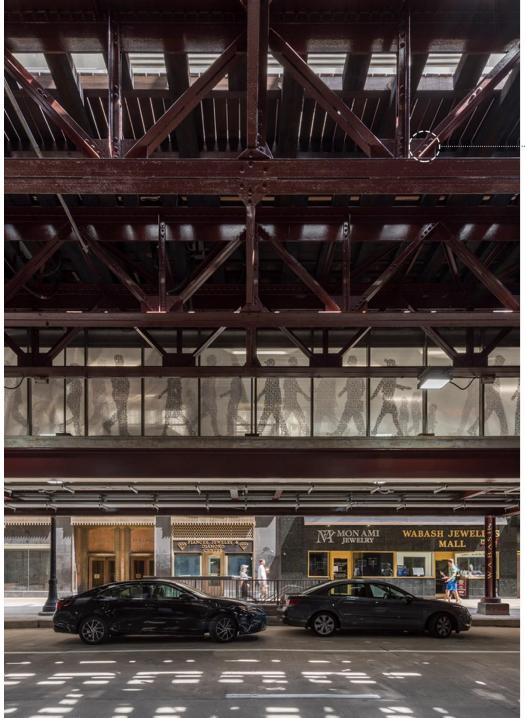






Railing + precast platform mockup (right) and finished project (left)







The mezzanine is animated with a light-filtering honeycomb glass mural composed of 1-1/2" round medalions representing each of the stations connected on the transit lines. The size corresponds to that of the rivet heads of the historic bent structure..



Mezzanine walkway from street (left) and mezzanine (right)





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"The new CTA station at Washington and Wabash represents the best of Chicago's heritage of architectural innovation and ingenuity while creating modern amenities for the thousands of travelers who utilize it every day."

Mayor Rahm Emanuel

"With the unveiling of this design, tens of thousands of Chicagoans who take the El downtown every day can look forward to less congestion and a cleaner, greener, state-of-the-art platform..." Senator Dick Durbin (D-IL)

"Modernizing our transit infrastructure is a key component of maintaining Chicago's status as an economic engine and tourism hub."

Senator Mark Kirk (R-III)

"This modern, bright and spacious rail station is another important step toward our goal of enhancing public transit options throughout the city. We are delighted to have partnered with CDOT to create this fully accessible, architecturally significant new station that will serve Chicago and its visitors for decades to come."

"This is a crucial investment that will pay dividends for many years..."

Forest Claypool, former CTA President



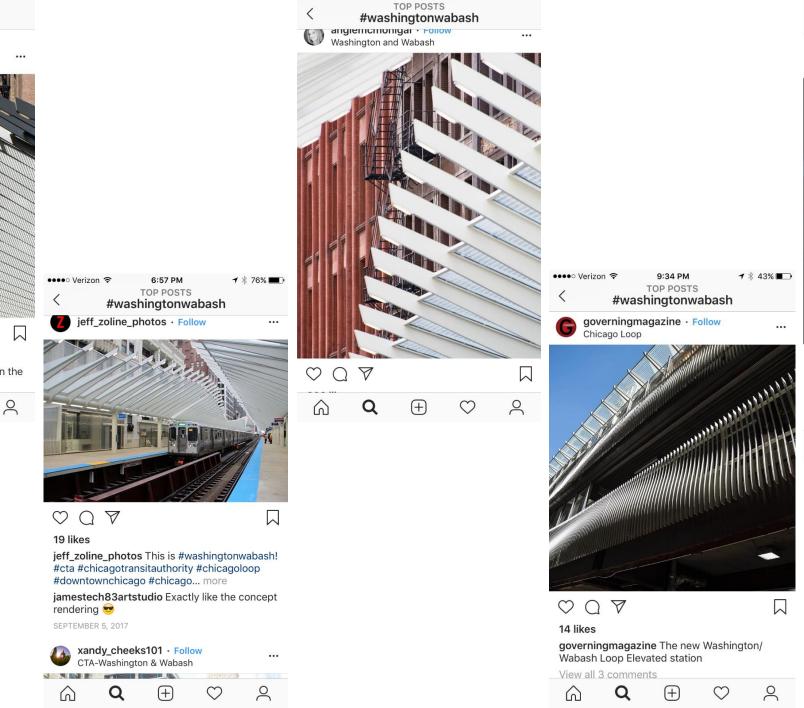
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lynda_myszkowski Chicagohenge 2017 - the new Washington / Wabash CTA "L" station... moro

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