

Designers Lighting Forum

Heritage Light: *History Illuminated*

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18 March 2025



LEDucation.org

Credit(s) earned on completion of this course will be reported to **AIA CES** for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



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Learning Objectives

At the end of this course, participants will be able to:

1. Examine the architectural and civic context of a historic or heritage building.
2. Analyze the architectural hierarchy with respect to the areas to be illuminated.
3. Gain familiarity with important variables that affect visual understanding.
4. Consider the importance of memory in design, respecting heritage.
5. Understand how advancements in LED technology have transformed heritage lighting.





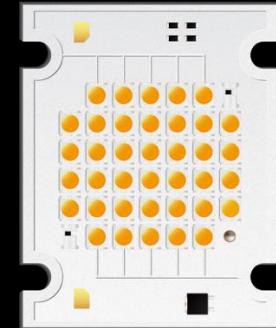
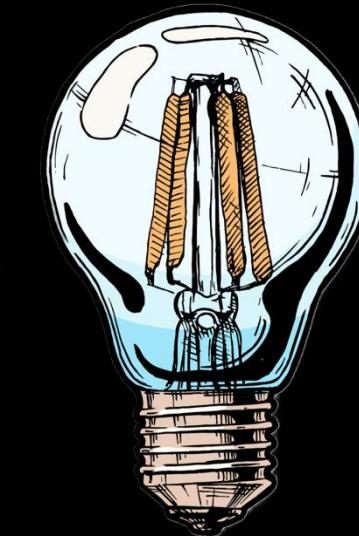
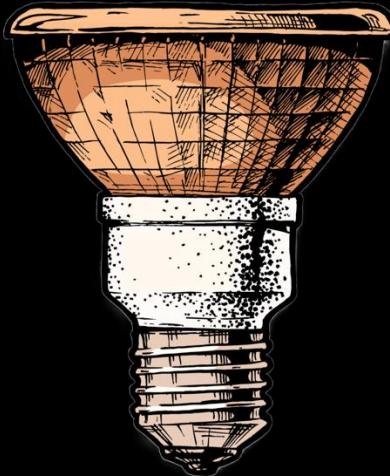
The City of New York 1893
New York, New York



New York City Present Day
New York, New York



New York City Present Day
New York, New York



FIRE ← ----- → FUTURE



PAST ← ----- → FUTURE

KEY

1 – Park Avenue Armory

2 – Carnegie Hall

3 – The Palace Theatre

4 – NYPL Rose Reading Room

5 – Grand Central

6 – Central Synagogue

7 – Ford Foundation

8 – WTC



New York City



Grand Central 1913
New York, New York



Grand Central 1930
New York, New York



Grand Central
New York, New York



The New York Public Library Rose Main Reading Room 1924
New York, New York



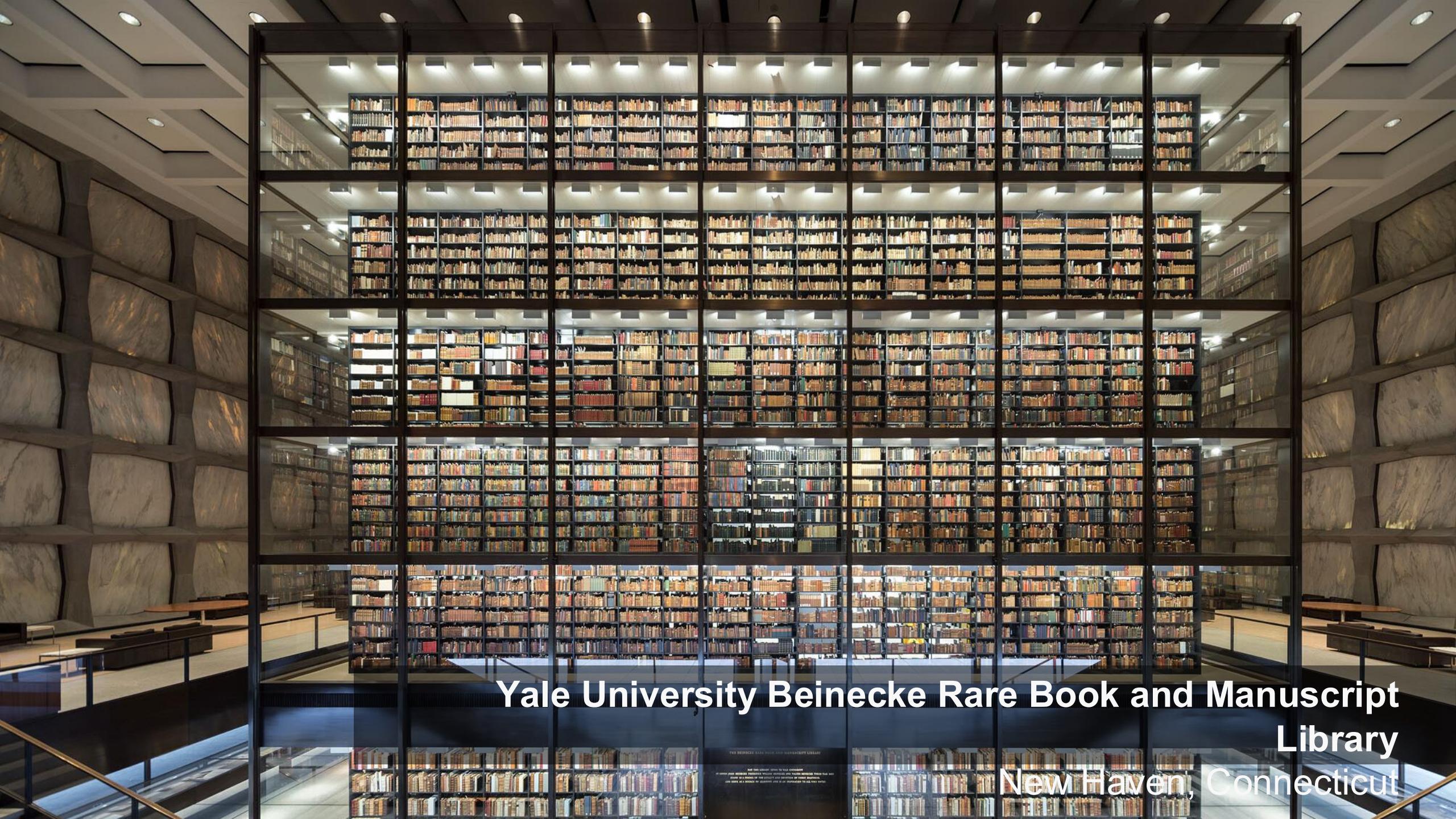
The New York Public Library Rose Main Reading Room
New York, New York



The New York Public Library Rose Main Reading Room
New York, New York



Yale University Beinecke Rare Book and Manuscript Library 1963
New Haven, Connecticut



Yale University Beinecke Rare Book and Manuscript Library
New Haven, Connecticut



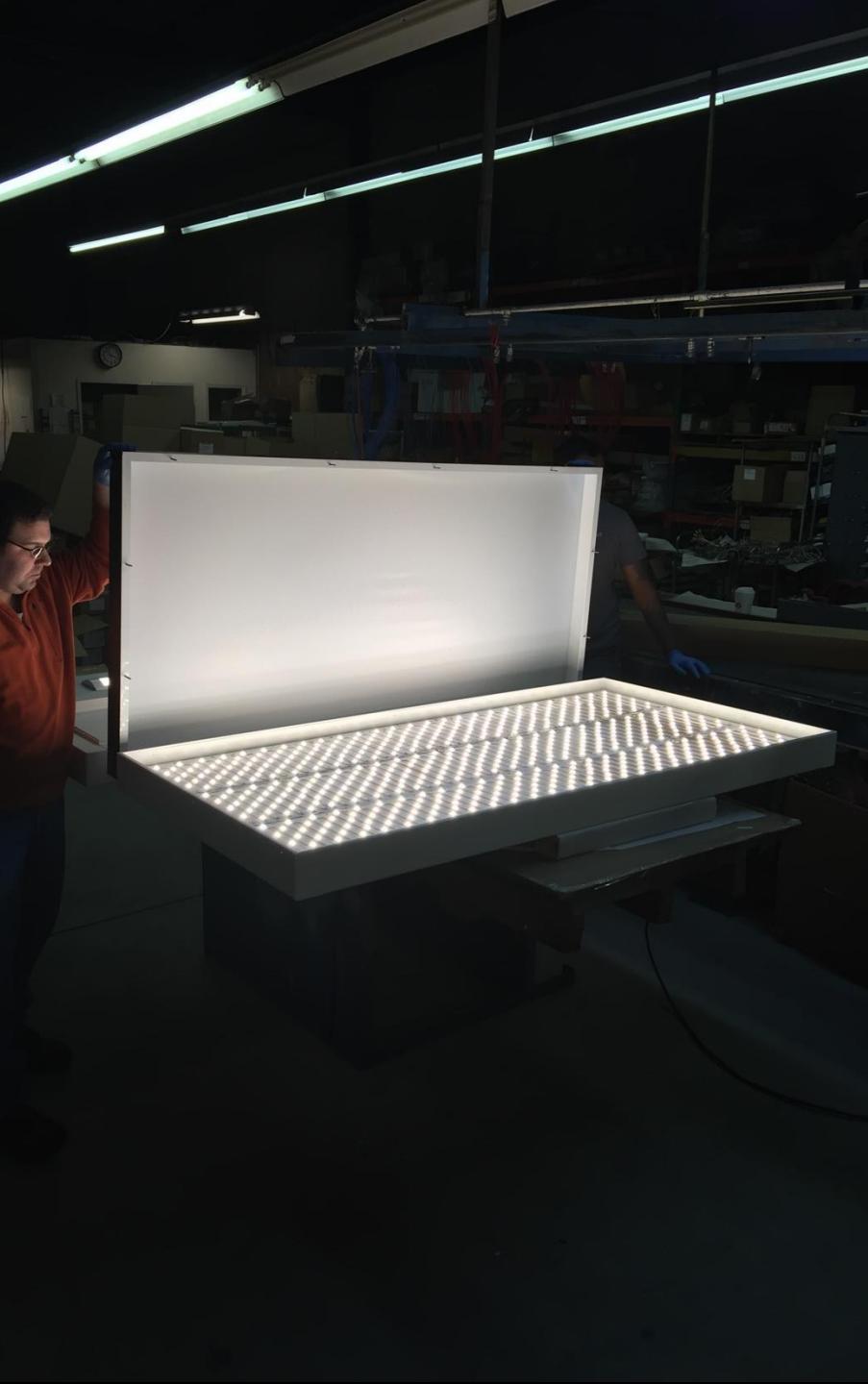
Ford Foundation 1968
New York, New York



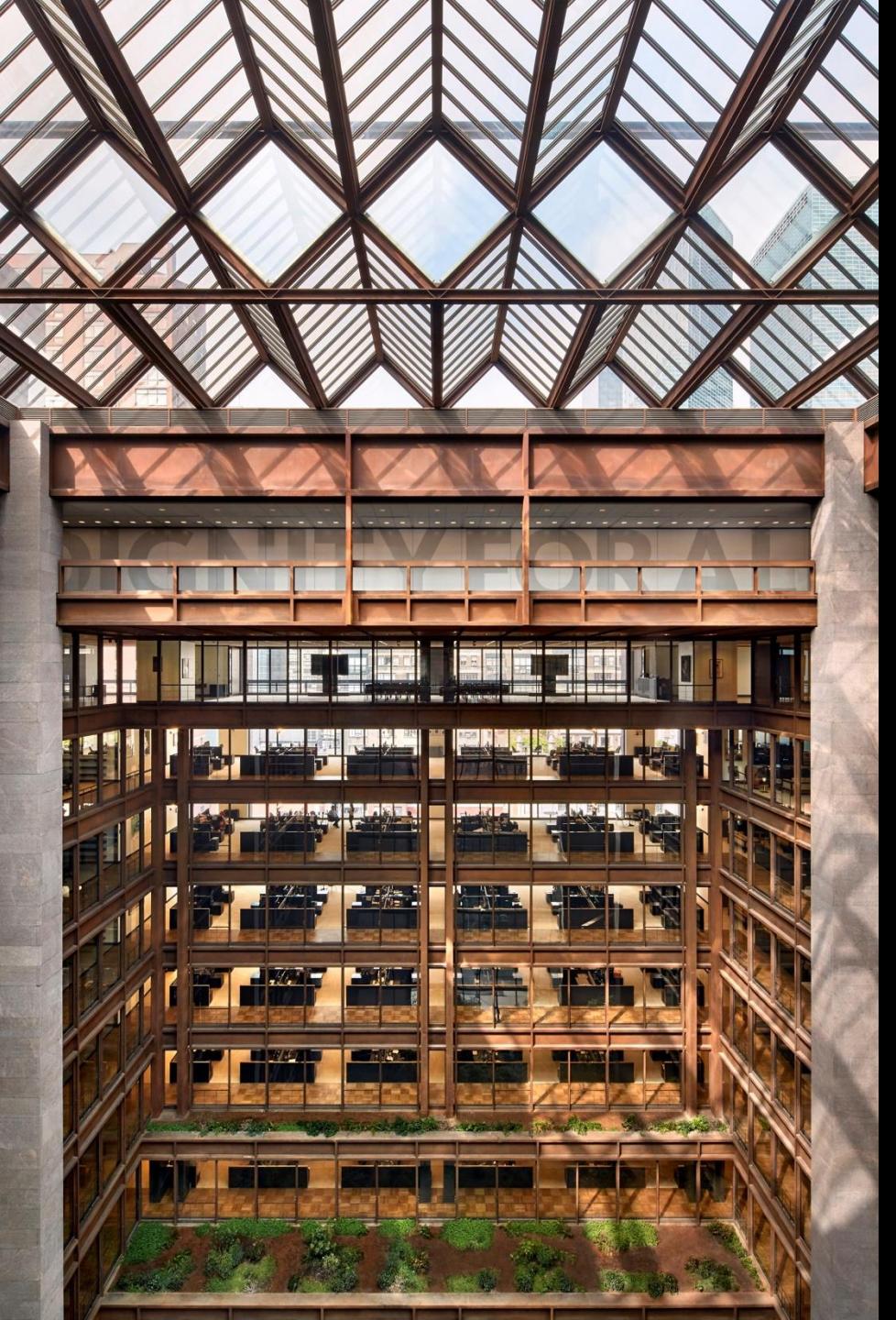
Ford Foundation 1968
New York, New York



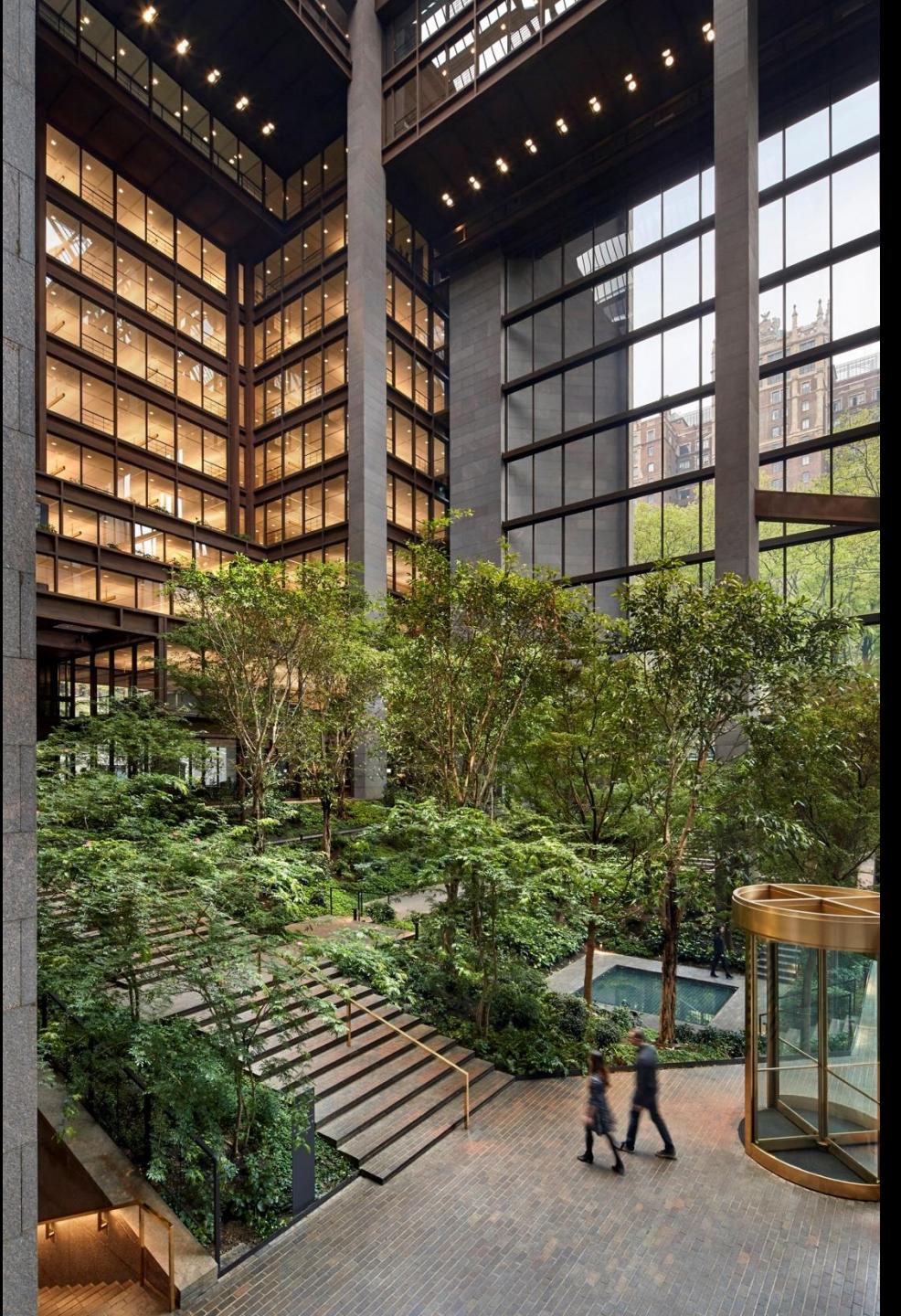
Ford Foundation
New York, New York



Ford Foundation
New York, New York



Ford Foundation
New York, New York



Ford Foundation
New York, New York

A photograph of a modern urban garden. The scene is filled with various trees and greenery. In the foreground, there's a rectangular pool made of dark tiles. To the right, a large glass wall offers a view of a city street with blurred lights from passing vehicles. Stairs and walkways made of light-colored stone lead through the garden. The overall atmosphere is one of a well-maintained, contemporary outdoor space.

Ford Foundation
New York, New York



Palace Theatre 1920 / 2024
New York, New York



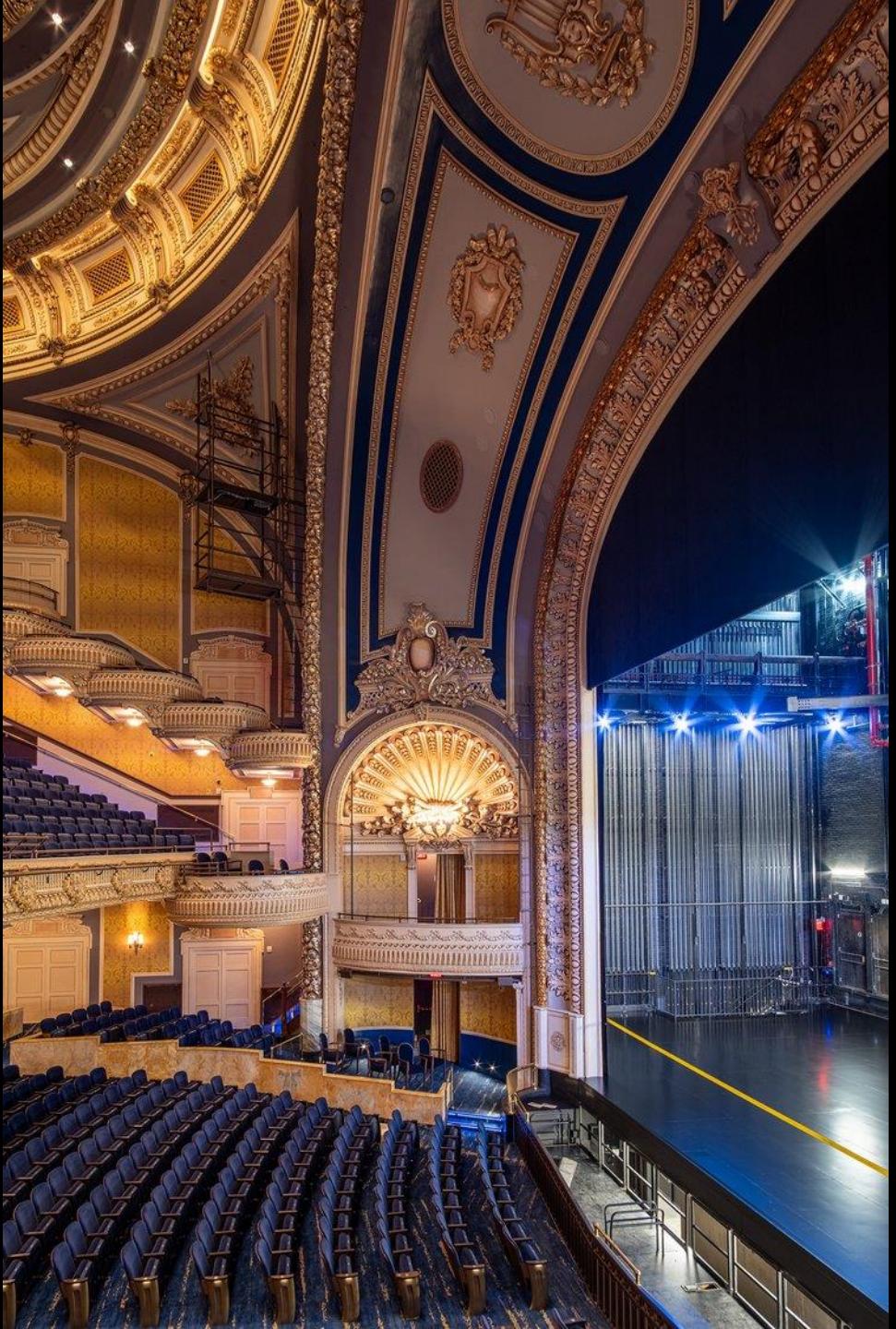
Palace Theatre
New York, New York



Palace Theatre
New York, New York



Palace Theatre
New York, New York



Palace Theatre
New York, New York



Palace Theatre
New York, New York



Palace Theatre
New York, New York



Palace Theatre
New York, New York



Palace Theatre
New York, New York



Carnegie Hall 1947
New York, New York



Carnegie Hall
New York, New York



Park Avenue Armory 1901
New York, New York

SEVENTH REGIMENT ARMORY, NEW YORK

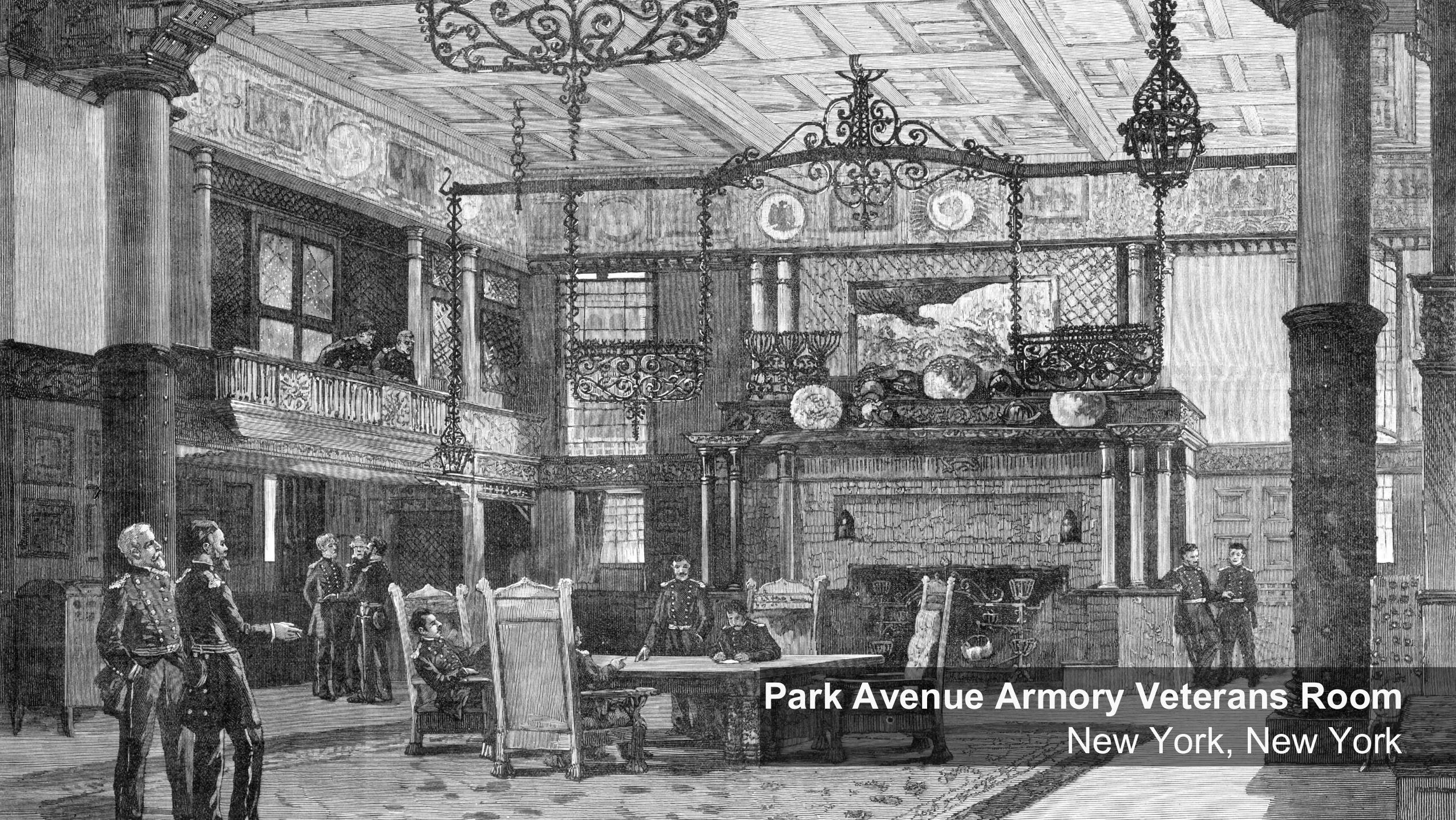


Park Avenue Armory
New York, New York



Park Avenue Armory Veterans Room
New York, New York

VETERANS ROOM.



Park Avenue Armory Veterans Room
New York, New York



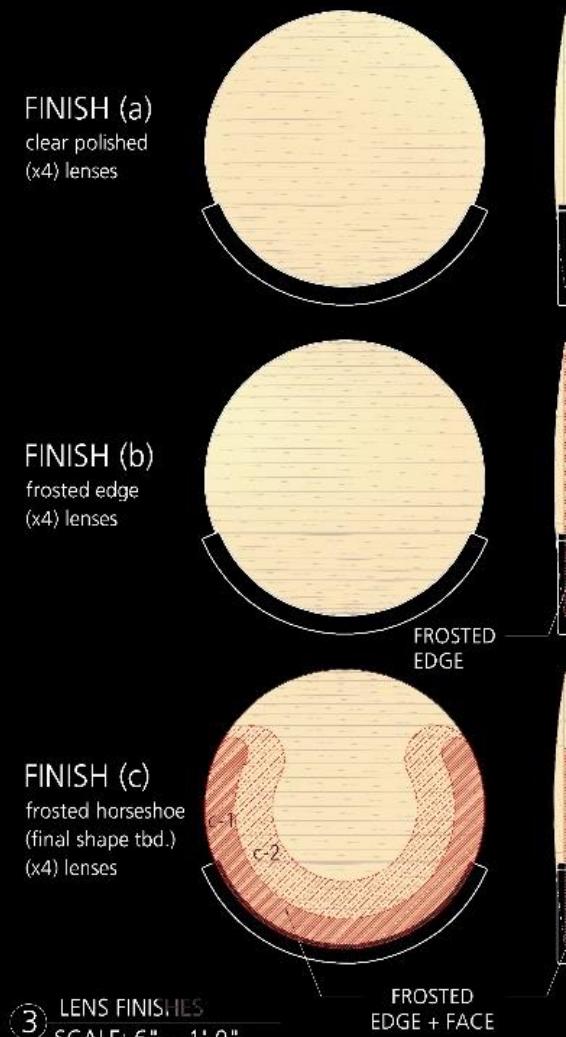
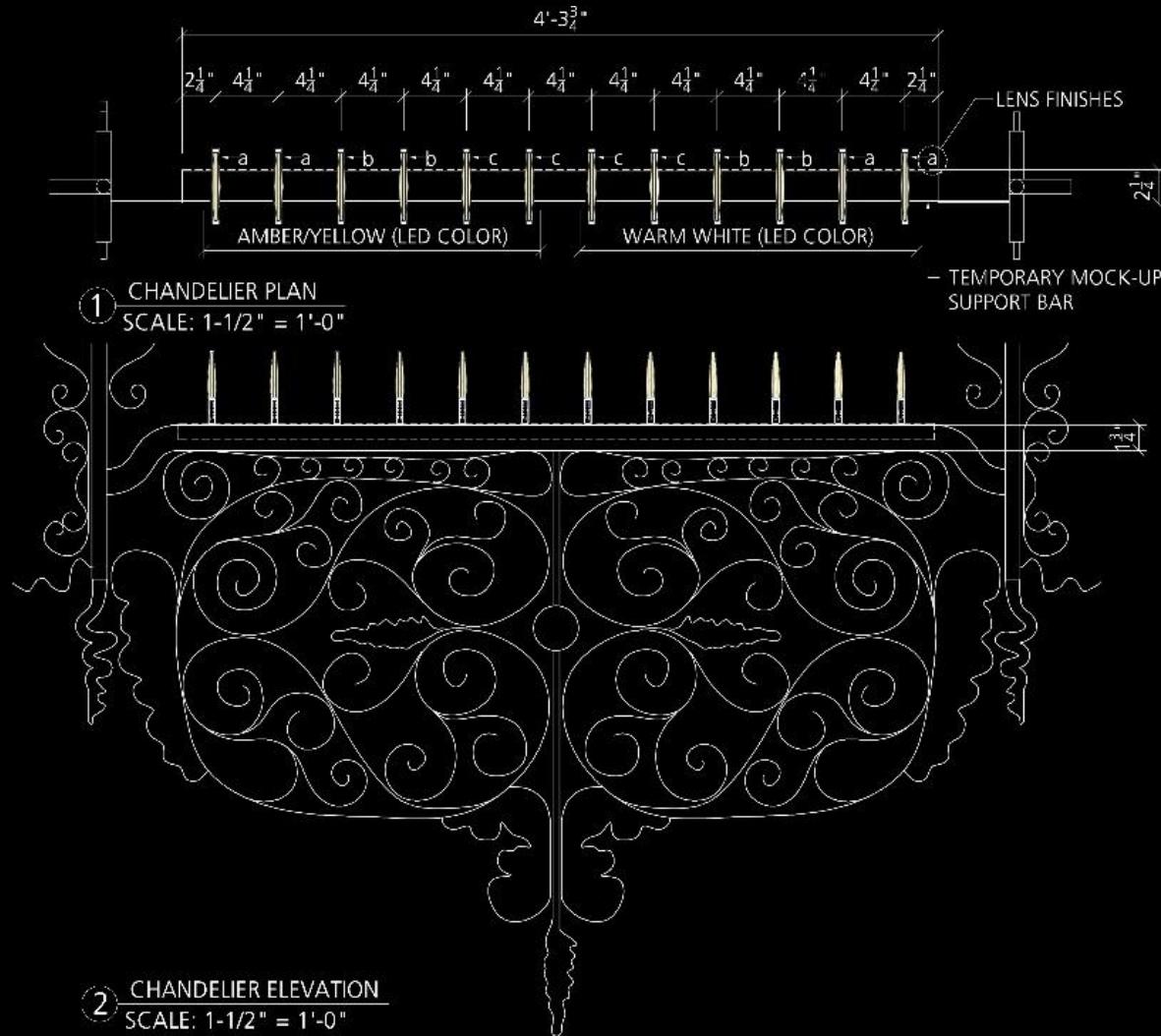
Park Avenue Armory Veterans Room
New York, New York



Park Avenue Armory Veterans Room
New York, New York

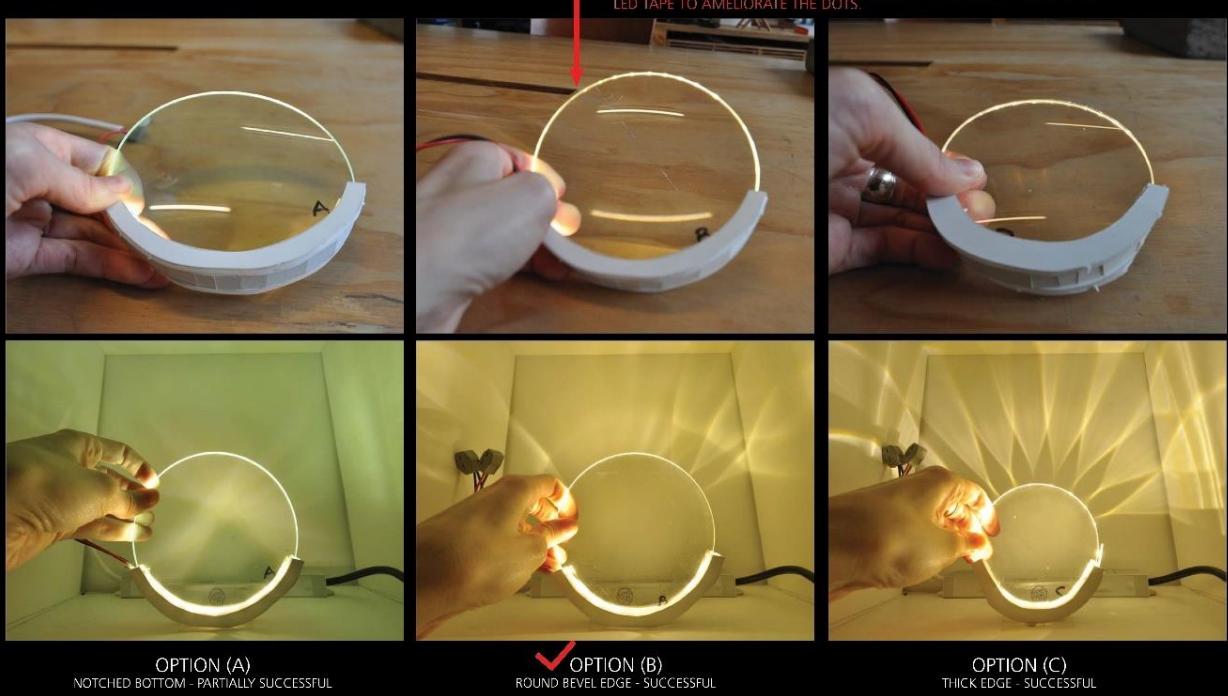


Park Avenue Armory Veterans Room
New York, New York

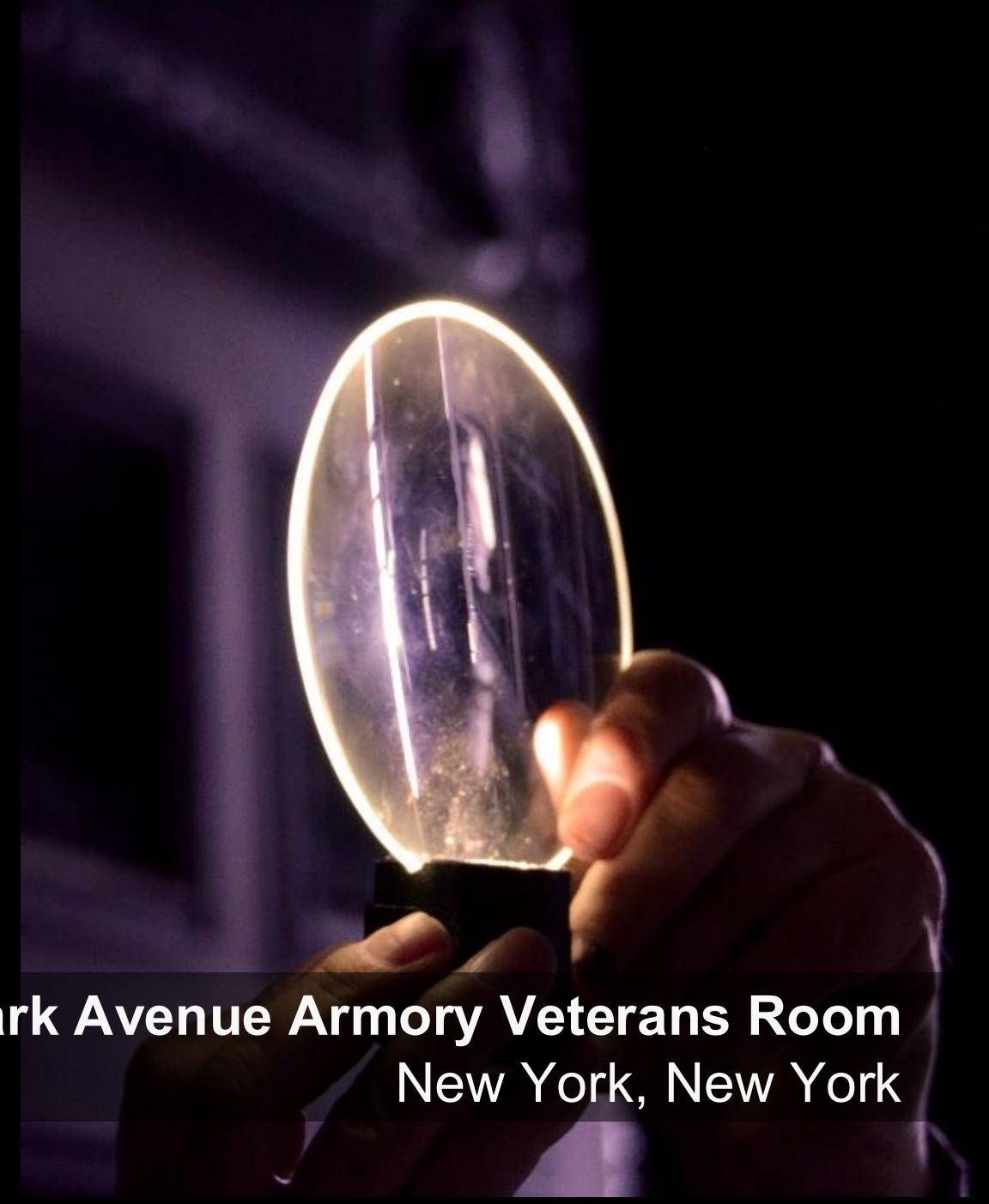


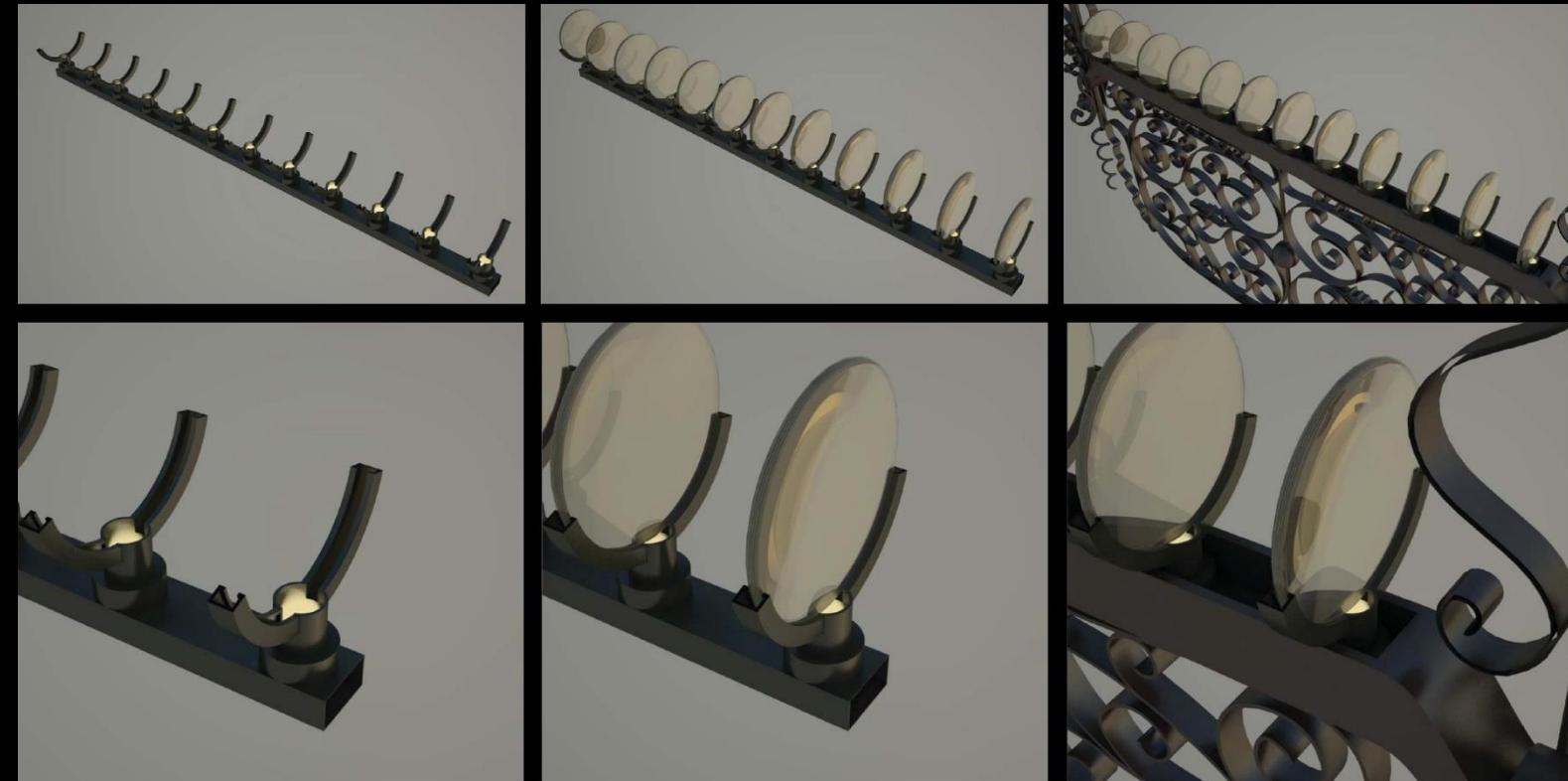
Park Avenue Armory Veterans Room

New York, New York



Park Avenue Armory Veterans Room
New York, New York

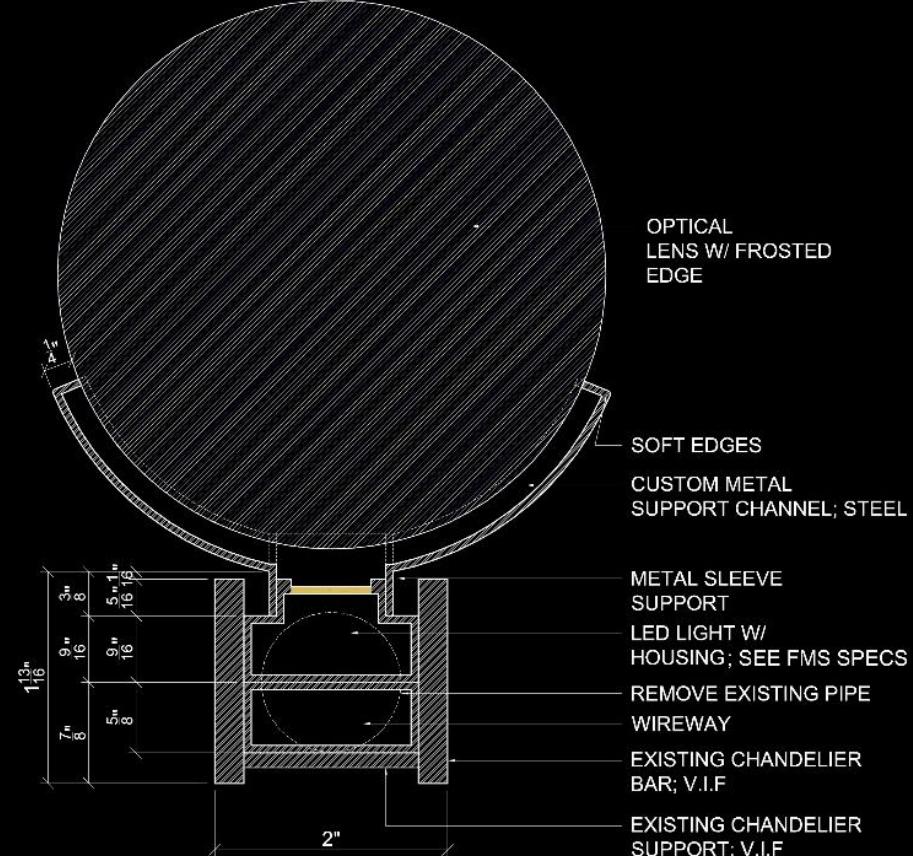




STEP 1
METAL HOUSING & LED LIGHTING

STEP 2
METAL HOUSING & LED LIGHTING + LENSES

STEP 3
METAL HOUSING & LED LIGHTING + LENSES + CHANDELIER



**Park Avenue Armory Veterans Room
New York, New York**



Park Avenue Armory Veterans Room
New York, New York

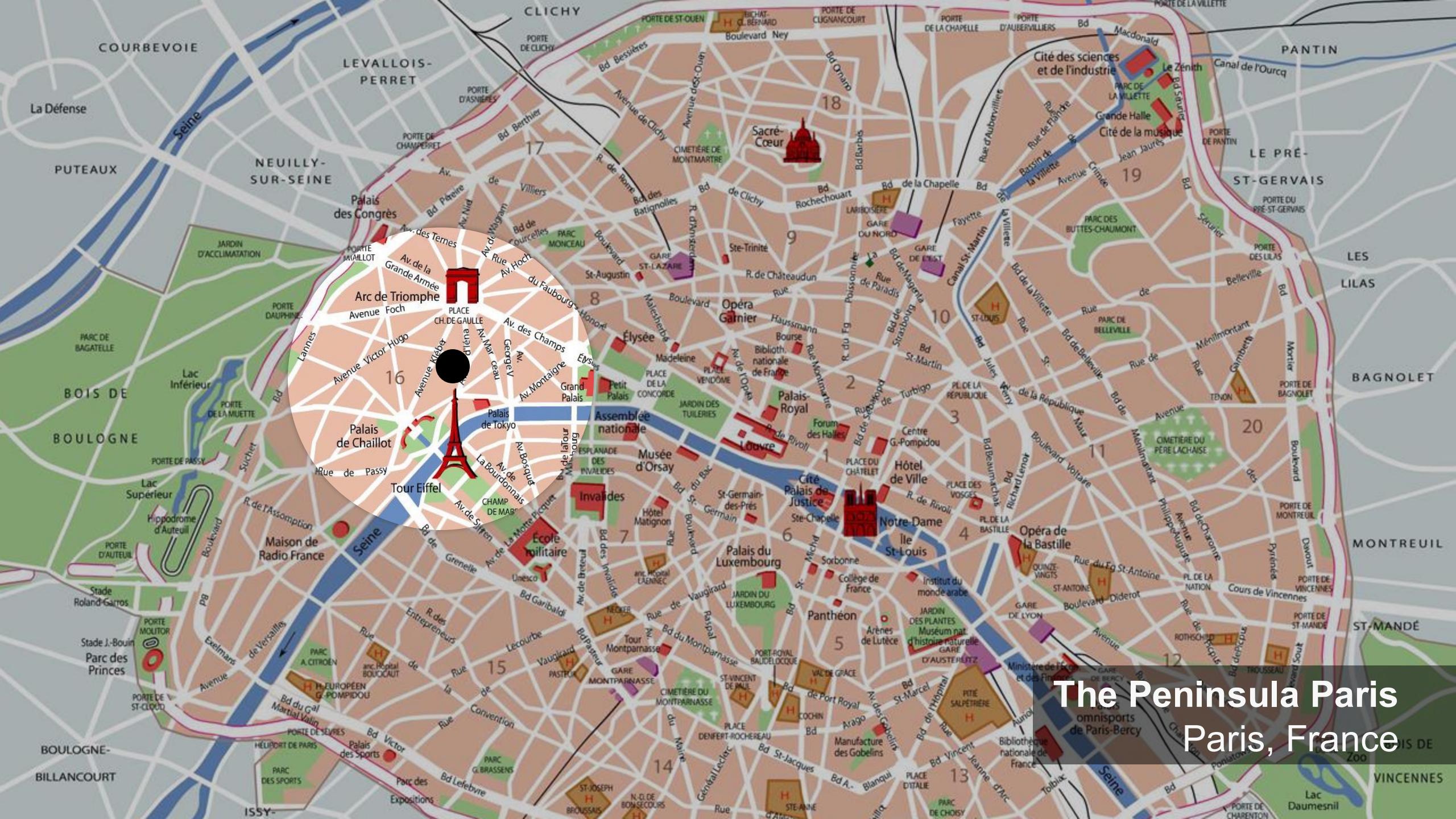


Park Avenue Armory Veterans Room
New York, New York





Park Avenue Armory Veterans Room
New York, New York



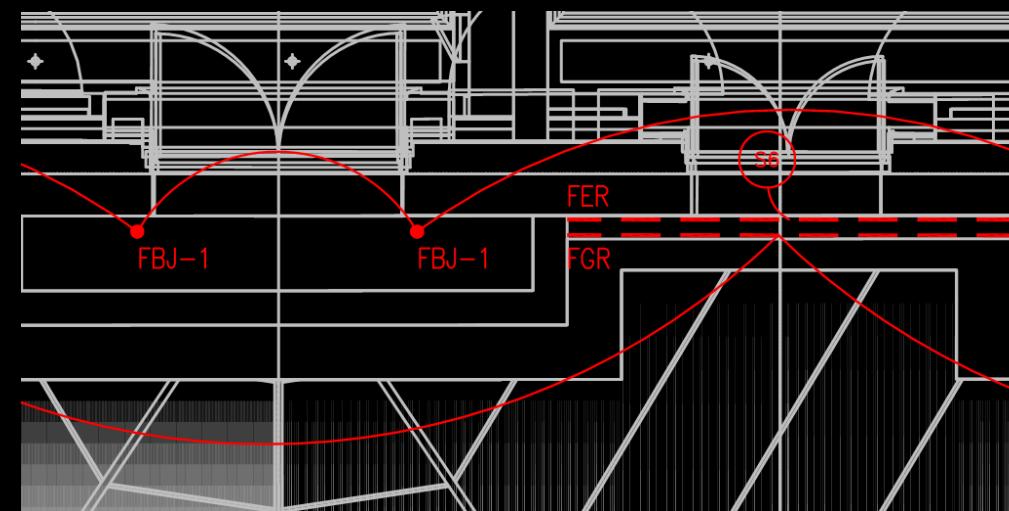
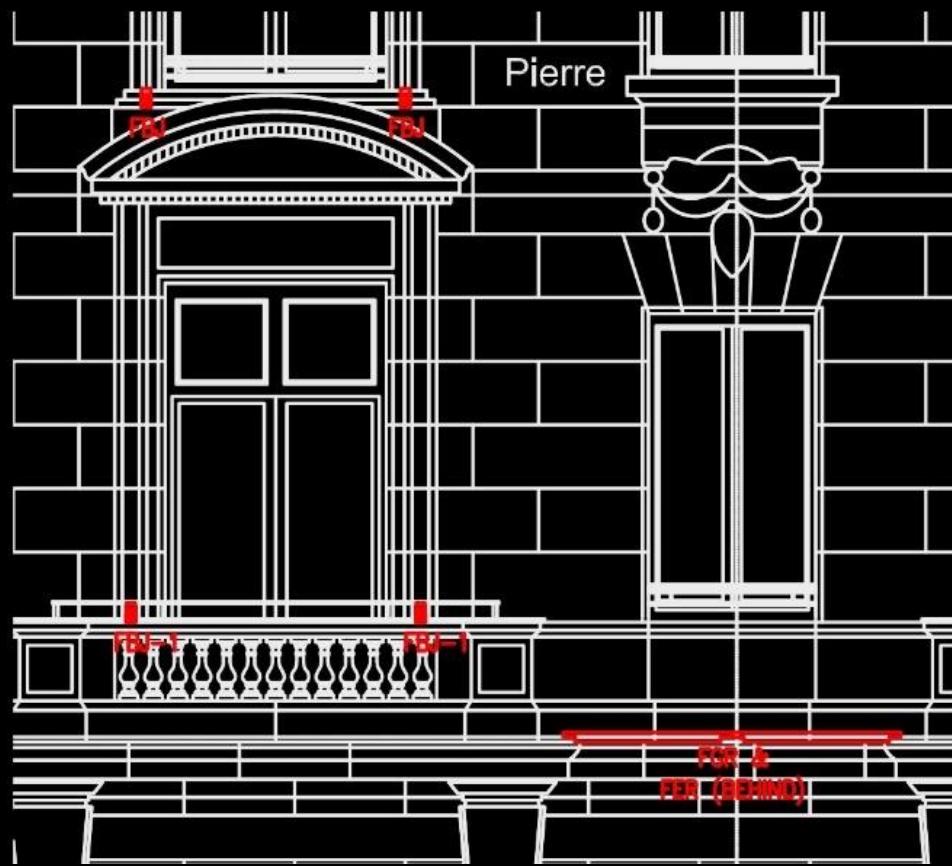
The Peninsula Paris
Paris, France



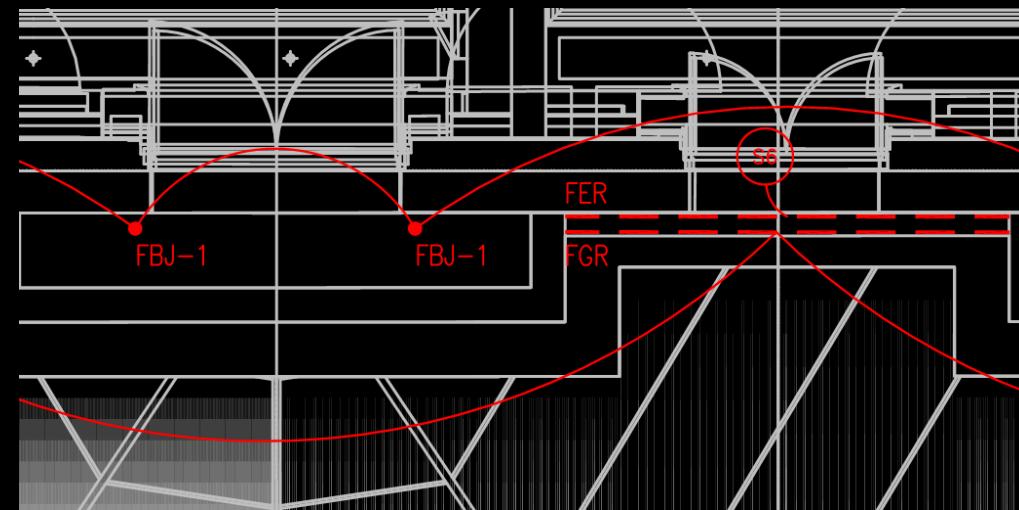
The Peninsula Paris 1908
Paris, France



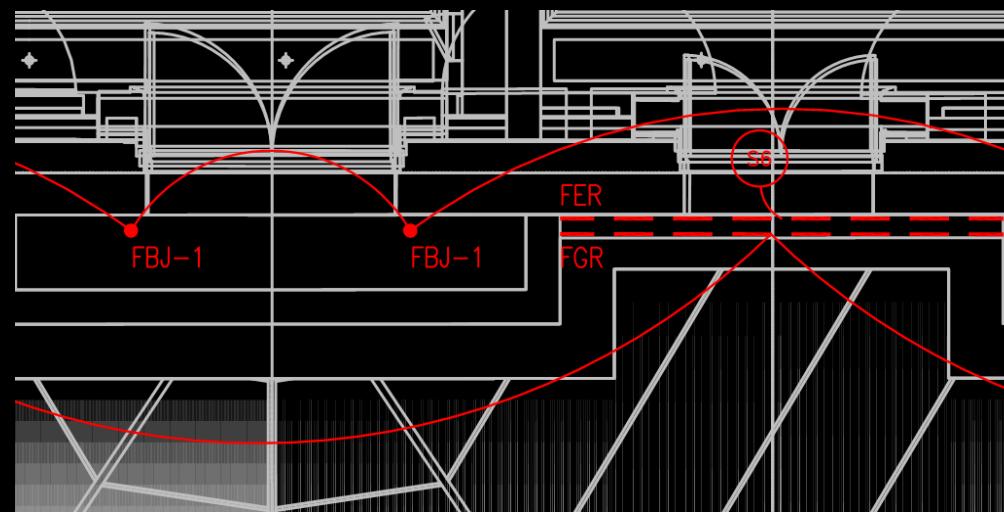
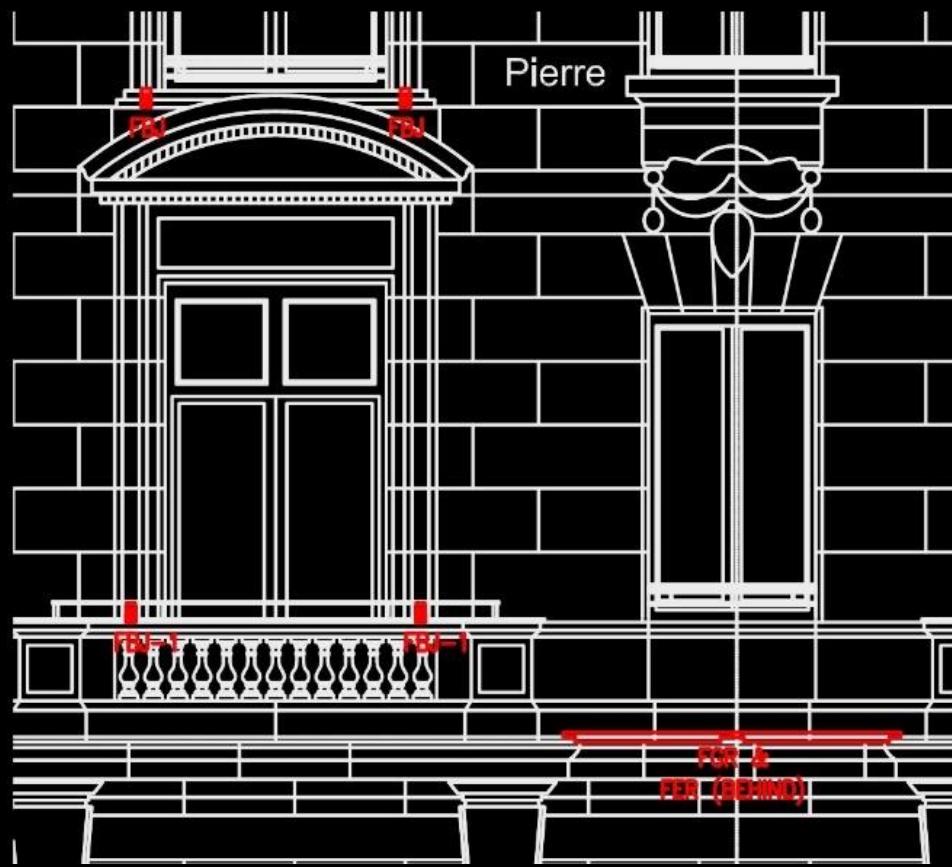
The Peninsula Paris
Paris, France



The Peninsula Paris
Paris, France



The Peninsula Paris
Paris, France



The Peninsula Paris
Paris, France



The Peninsula Paris
Paris, France



The Peninsula Paris
Paris, France



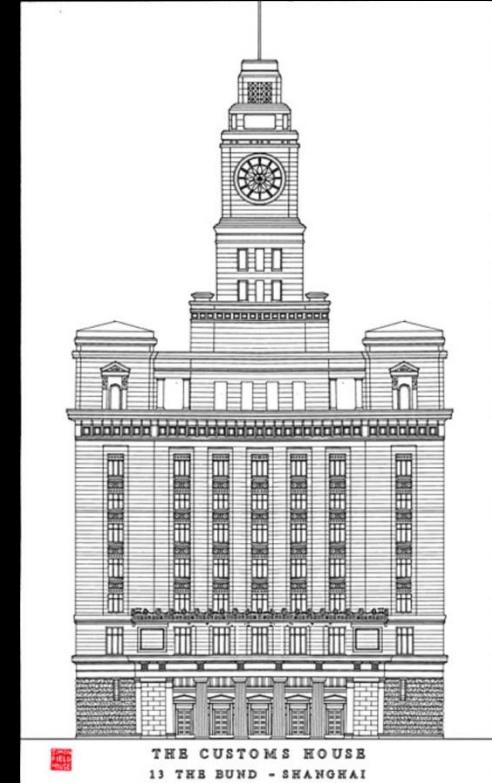
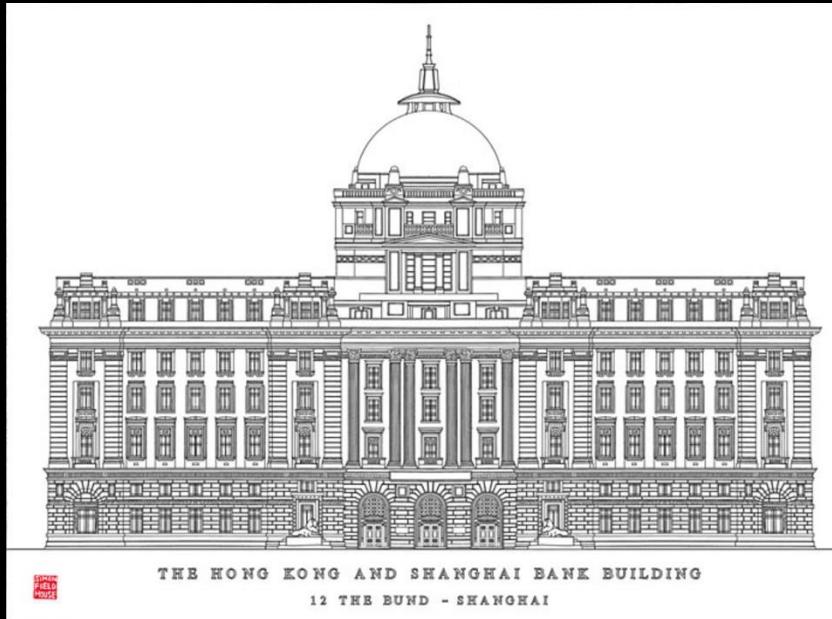


The Bund 1927
Shanghai, China



THE BUND - SHANGHAI

SIMON FIELDHOUSE 2008



The Bund
Shanghai, China



The Bund
Shanghai, China



The Bund
Shanghai, China



The Bund
Shanghai, China



The Bund
Shanghai, China



The Bund
Shanghai, China



The Bund
Shanghai, China





National World War I Memorial
Washington, DC



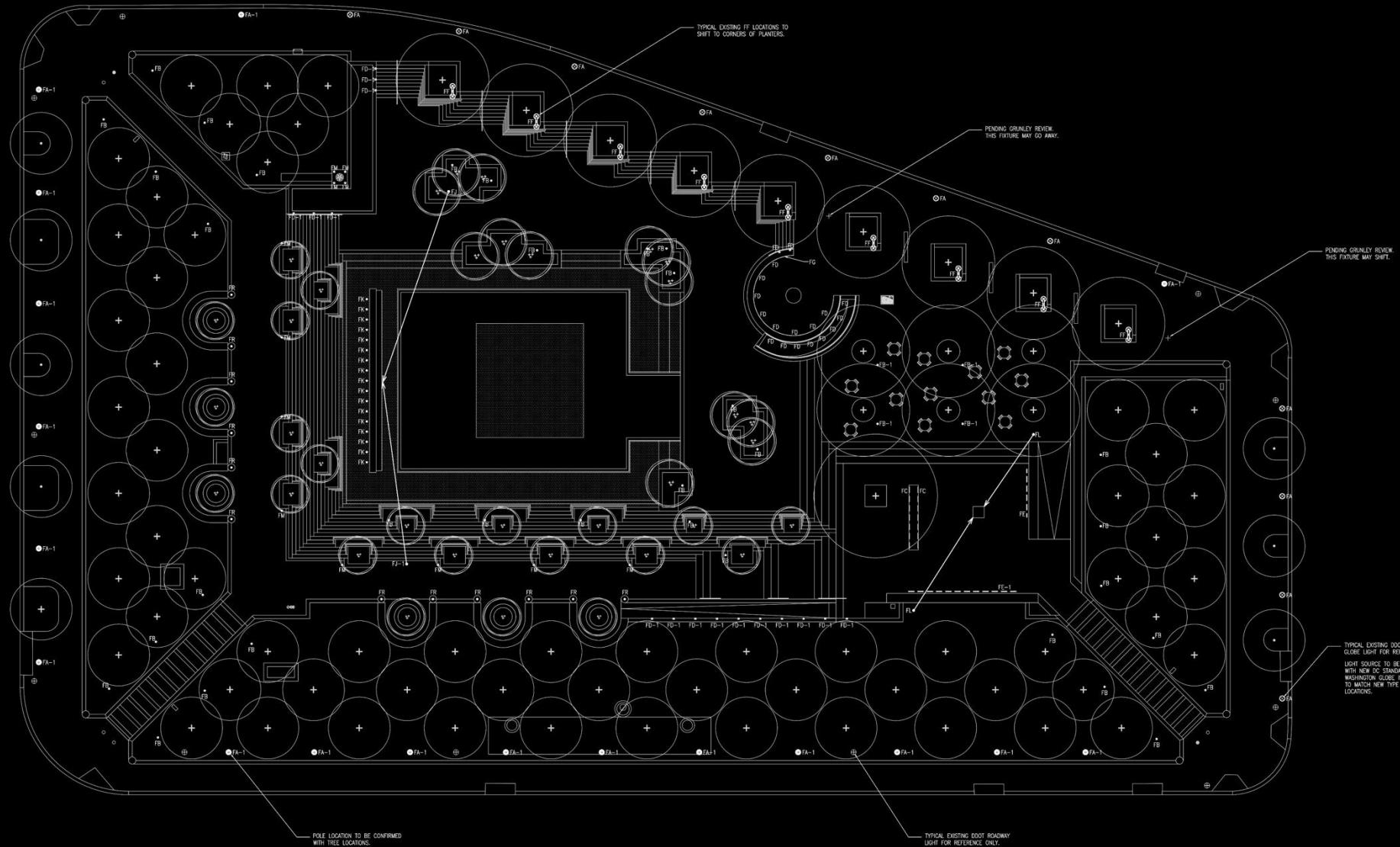
National World War I Memorial
Washington, DC



National World War I Memorial
Artist: Sabin Howard
Washington, DC



National World War I Memorial
Washington, DC



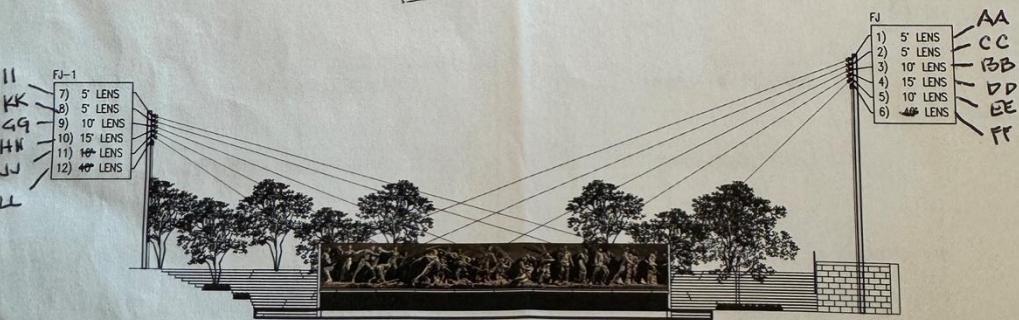
National World War I Memorial
Washington, DC

Type FJ Aiming Angle Chart

Lighting Location Number	Horizontal Rotation	Vertical Tilt (0° at Straight Down)
AA 1) 5° LENS	166° W	70°
CC 2) 5° LENS	165° W	68°
BB 3) 10° LENS	161° W	63°
DD 4) 15° LENS	156° W	58°
EE 5) 10° LENS	147° W	47°
FF 6) 40° LENS 5°	161° W	0°

Type FJ-1 Aiming Angle Chart

Lighting Location Number	Horizontal Rotation	Vertical Tilt (0° at Straight Down)
II 7) 5° LENS	5° W	75°
KK 8) 5° LENS	6° W	74°
GG 9) 10° LENS 5°	8° W	70°
HH 10) 15° LENS 5°	11° W	65°
JJ 11) 10° LENS 15°	14° W	58°
KK 12) 40° LENS 5°	8° W	0°



1 TYPE FJ AND FJ-1 PRELIMINARY AIMING DIAGRAM
NOT TO SCALE

Type

FJ
Series



National World War I Memorial
Washington, DC



National World War I Memorial
Washington, DC



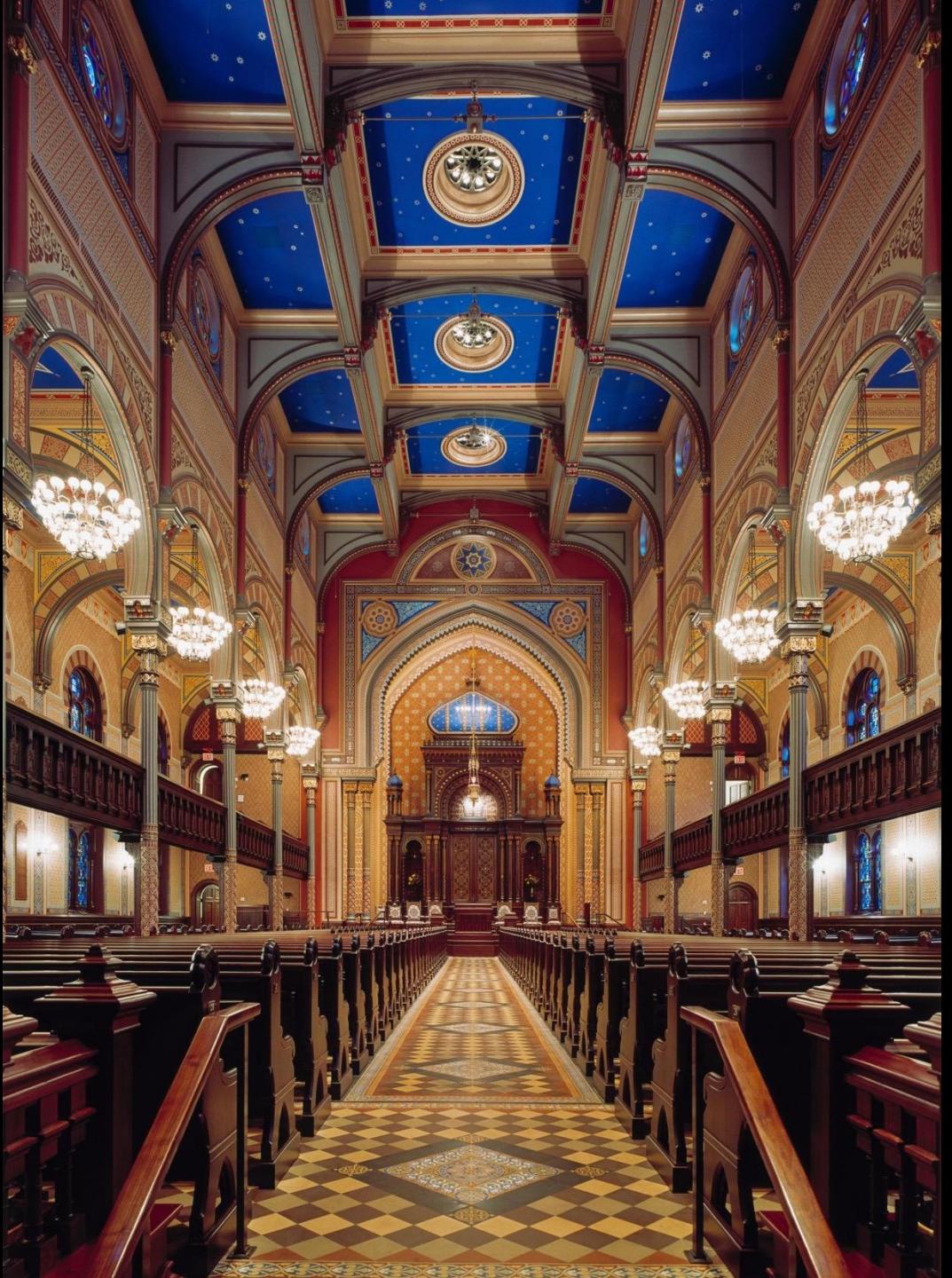
National World War I Memorial
Washington, DC



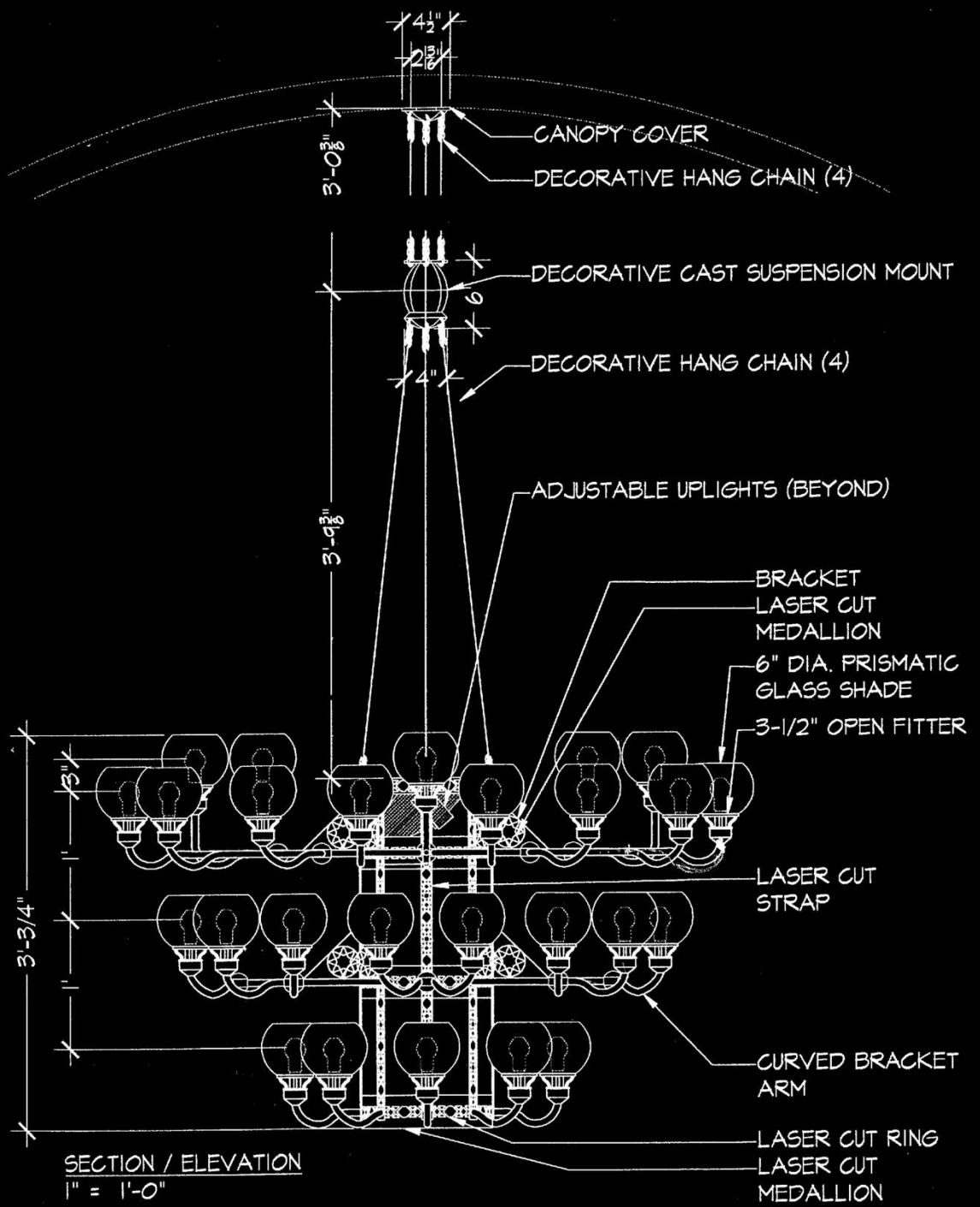
How Do You Honor a Building's Heritage When It's Gone?



Central Synagogue Fire 1998
New York, New York



Central Synagogue
New York, New York

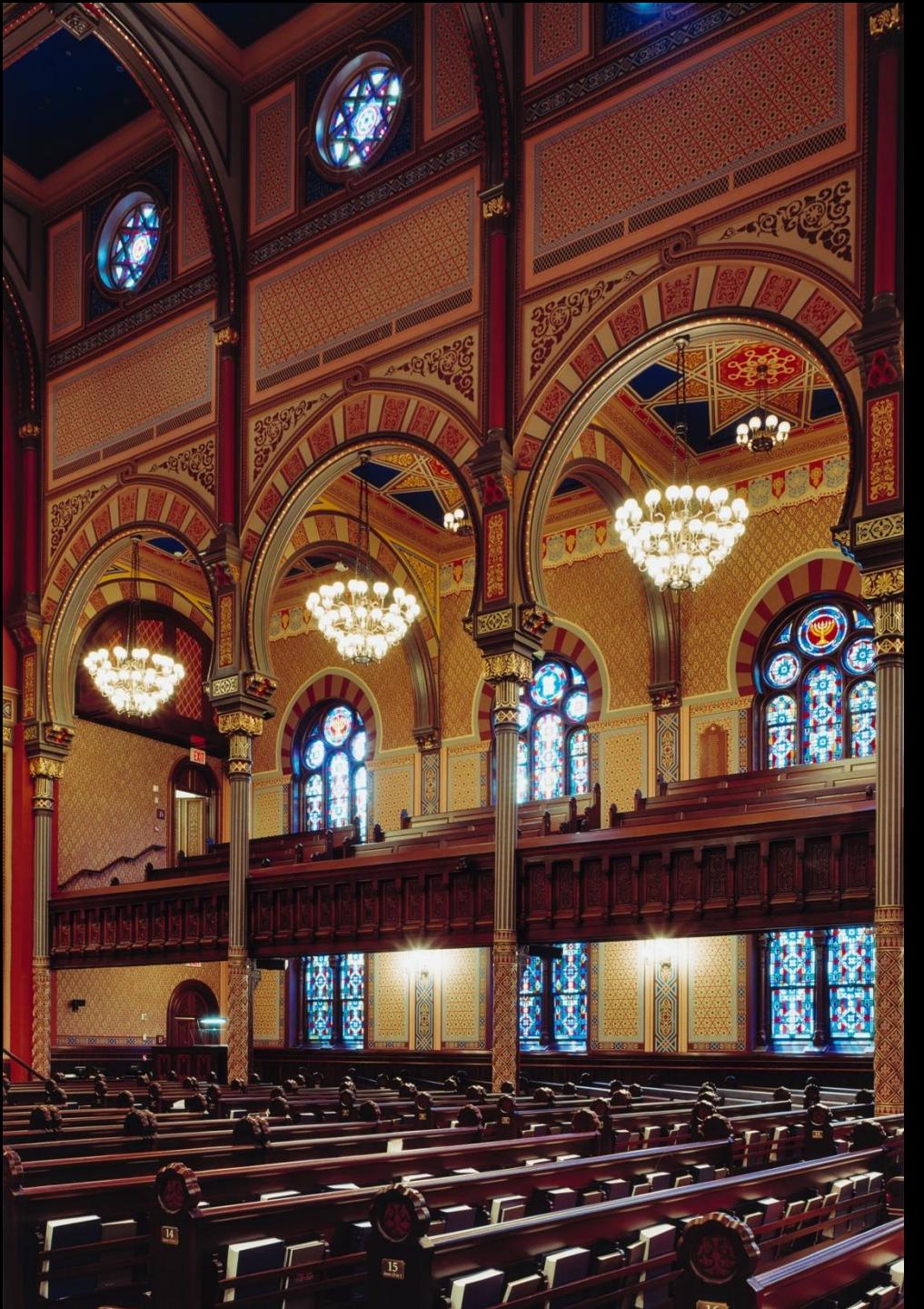


Central Synagogue

New York, New York



Central Synagogue
New York, New York



Central Synagogue
New York, New York



Central Synagogue
New York, New York



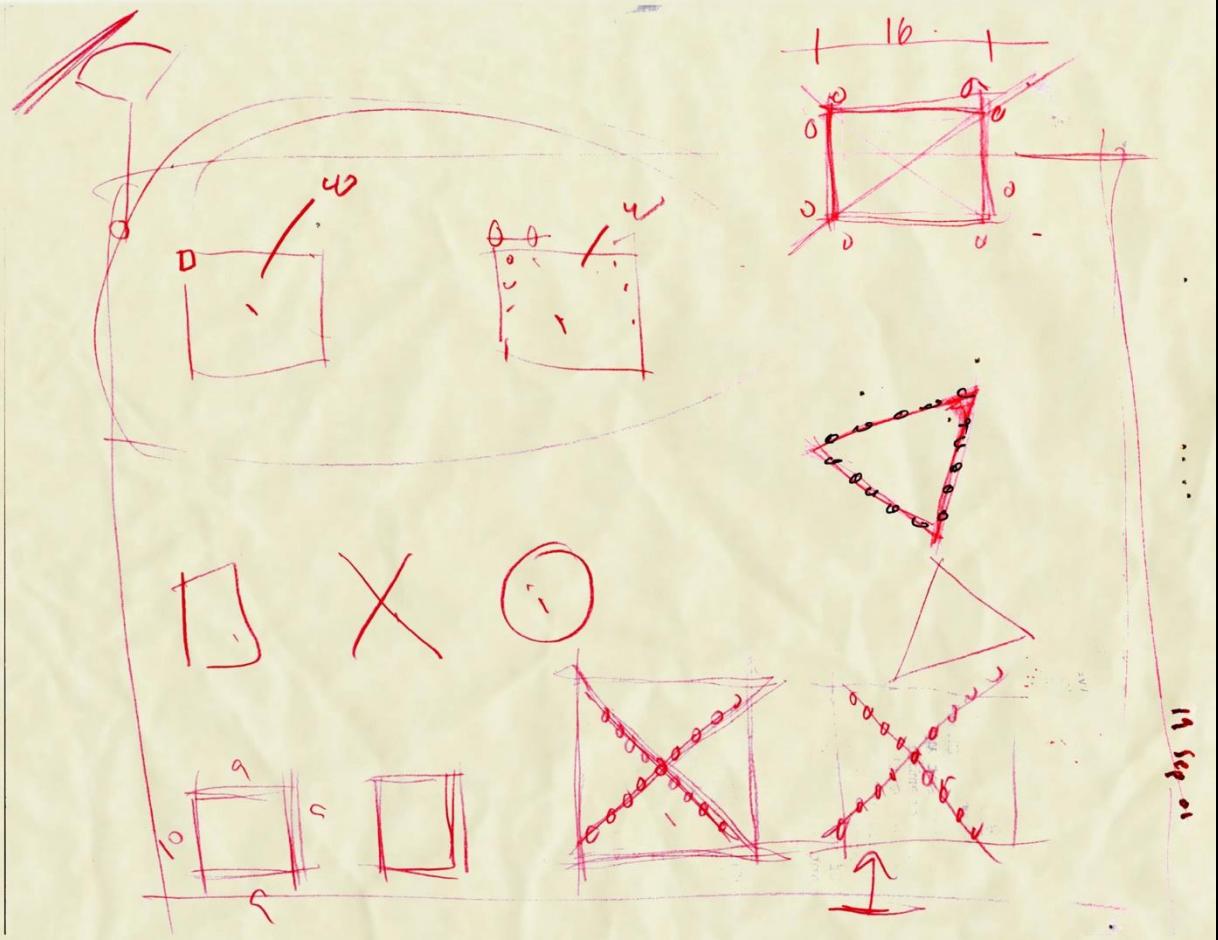
World Trade Towers mid-1970s
New York, New York



World Trade Towers 2001
New York, New York



**Tribute in Light Artist Rendering
New York Times, 23 September 2001
New York, New York**



50 FT
OVERALL

RADIANT REMEMBRANCE >

BRILLIANT BEACONS
Each 7,000-watt bulb is nested in a curved reflector that bounces light directly upward.

POWER UP
The estimated \$10,000 worth of electricity required to power all the searchlights will be donated, as were all other costs.

COLUMN CORE
The 44 searchlights arranged in each bank create a light column 50 feet square.

(CNN/GFX/AP/CREATIVE TIME/MUNICIPAL ART SOCIETY OF NEW YORK/I-CUBED)

A MILE HIGH
Visibility of the beams will vary with weather. On cloudy nights, for example, the light will illuminate particles and moisture and may be seen from up to 25 miles in any direction, projecting about a mile into the sky. The twin banks of lights are a block from Ground Zero.

NOT TO SCALE
Dimensions are Approximate

Tribute In Light
Lot 26 Parking
Layout sketch
Tentative
Version 2
9/3/01

Murray Street
North Bank Area
Fence 80'
290'
Entrance
Cash
South bank Area
Power area
Transformers & cable runs
110'
90'
105'

WORLD FINANCIAL CENTER
NORTH TOWER
SOUTH TOWER

Tribute in Light 2001
New York, New York



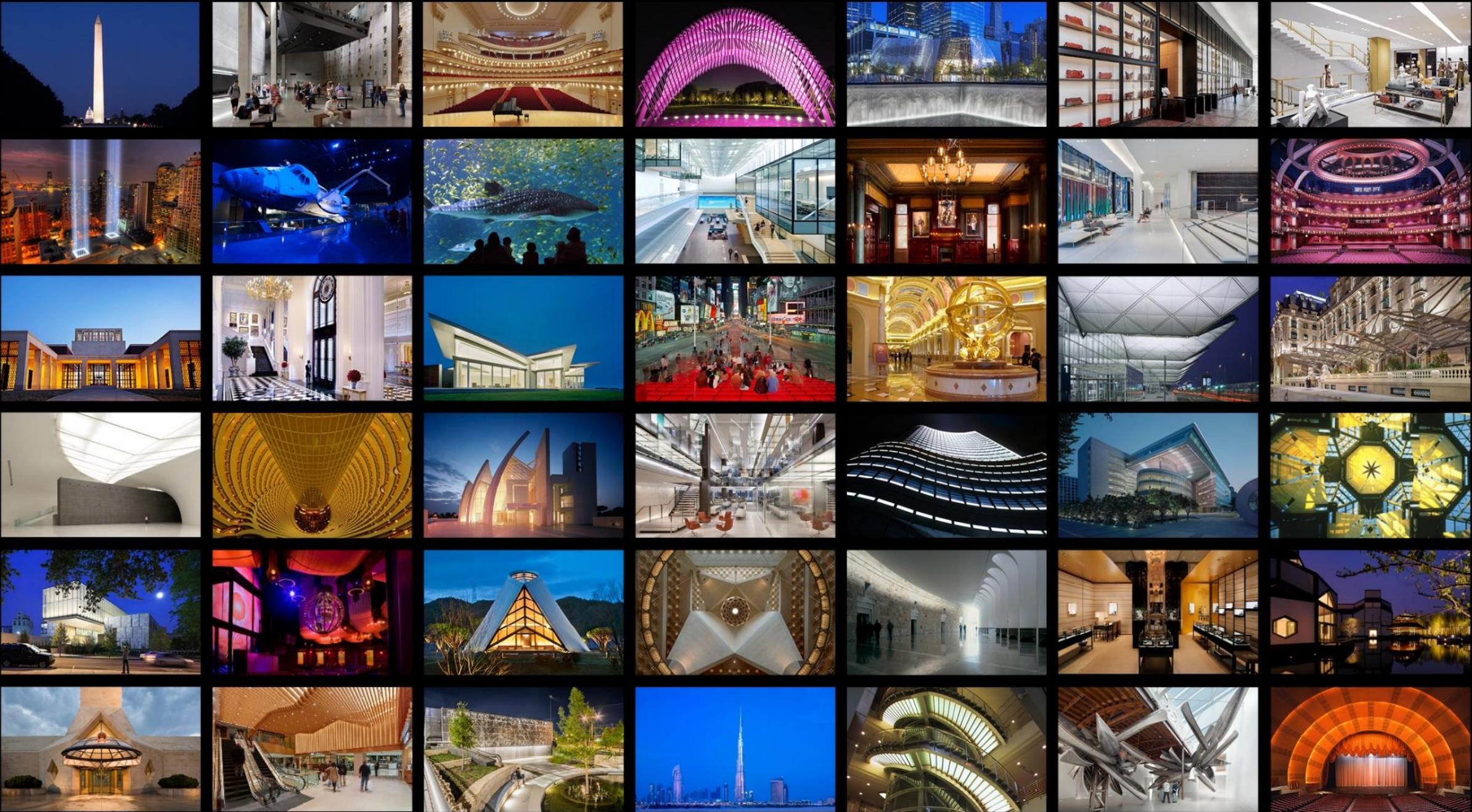
The National September 11 Memorial at the World Trade Center
New York, New York



Tribute in Light 2022
New York, New York



Tribute in Light 2023
New York, New York



This concludes The American Institute of Architects Continuing
Education Systems Course



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Thank you for attending!

Please scan the QR code to rate it and leave feedback.



Sutton South

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