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Washington Union Station

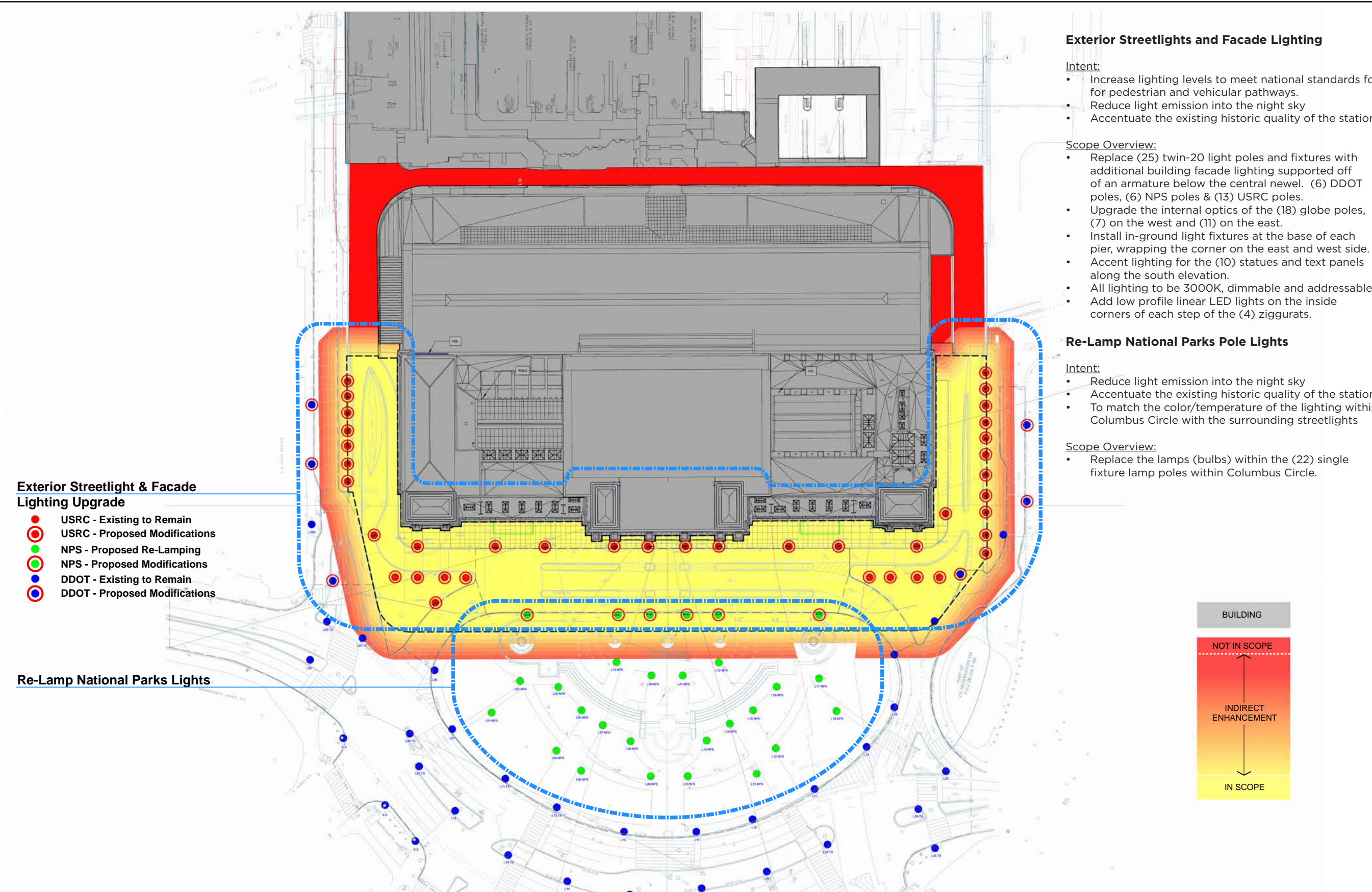
Lighting Upgrades



Union Station
REDEVELOPMENT CORPORATION

Concept Presentation To:
Commission of Fine Arts

September 18, 2025



Exterior Streetlight & Facade Lighting Upgrade

- USRC - Existing to Remain
- USRC - Proposed Modifications
- NPS - Proposed Re-Lamping
- NPS - Proposed Modifications
- DDOT - Existing to Remain
- DDOT - Proposed Modifications

Re-Lamp National Parks Lights

Exterior Streetlights and Facade Lighting

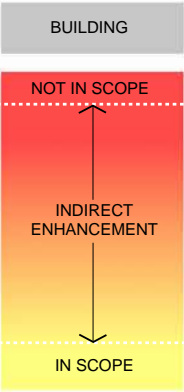
- Intent:
- Increase lighting levels to meet national standards for for pedestrian and vehicular pathways.
 - Reduce light emission into the night sky
 - Accentuate the existing historic quality of the station.

- Scope Overview:
- Replace (25) twin-20 light poles and fixtures with additional building facade lighting supported off of an armature below the central newel. (6) DDOT poles, (6) NPS poles & (13) USRC poles.
 - Upgrade the internal optics of the (18) globe poles, (7) on the west and (11) on the east.
 - Install in-ground light fixtures at the base of each pier, wrapping the corner on the east and west side.
 - Accent lighting for the (10) statues and text panels along the south elevation.
 - All lighting to be 3000K, dimmable and addressable.
 - Add low profile linear LED lights on the inside corners of each step of the (4) ziggurats.

Re-Lamp National Parks Pole Lights


- Intent:
- Reduce light emission into the night sky
 - Accentuate the existing historic quality of the station
 - To match the color/temperature of the lighting within Columbus Circle with the surrounding streetlights

- Scope Overview:
- Replace the lamps (bulbs) within the (22) single fixture lamp poles within Columbus Circle.



Washington Union Station

Lighting Upgrades

September 18, 2025
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LIGHTING DESIGNER
CLAUDE R. ENGLE LIGHTING CONSULTANT
STRUCTURAL ENGINEER
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Page Title
Lighting Scope
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001



Ground Level Plan

Front Entry and Colonnade

- Intent:
- Increase lighting levels to meet national standards for for pedestrian pathways.
 - Decrease glare and provide more indirect lighting.
 - Modernize the internal optics of the existing historic fixtures to accentuate the existing historic vaults.

- Scope Overview:
- Modernize the internal optics of all hanging sconces
 - Modernize the internal optics of dome lights.
 - Add low profile spots to illuminate escalator and door thresholds, housing to color match ceiling.
 - Add low profile linear LED fixtures on top surface of cornice at spring point of vault arches at the Carriage Porch, Main Entry and Executive entry. Fixture to be hidden from view.
 - Add spot lights to statues above main entry doors.
 - All lighting to be 3000K, dimmable and addressable.

Main Hall






- Intent:
- Increase lighting Levels to meet security requirements.
 - Decrease glare and provide indirect lighting.
 - Accentuate the Historic Interiors.

- Scope Overview:
- Replace lighting at spring point of plaster vault.
 - Add additional linear LEDs along cornice to light ceiling.
 - Add spot lights to light statues, entry and exit points along perimeter of space.
 - All lighting to be 3000K, dimmable and addressable.

Washington Union Station

Lighting Upgrades

September 18, 2025

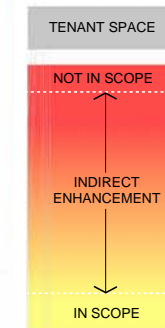
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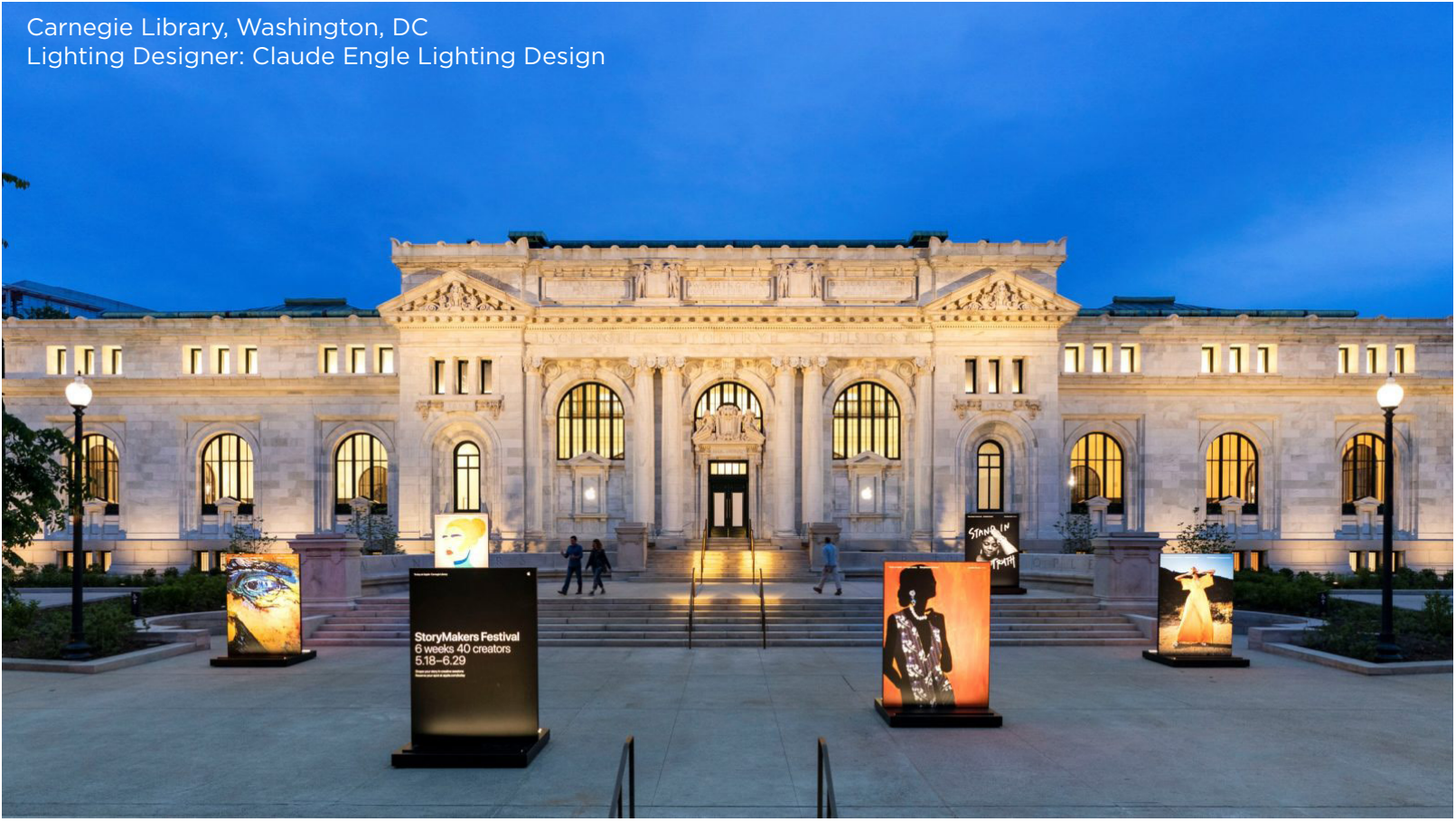
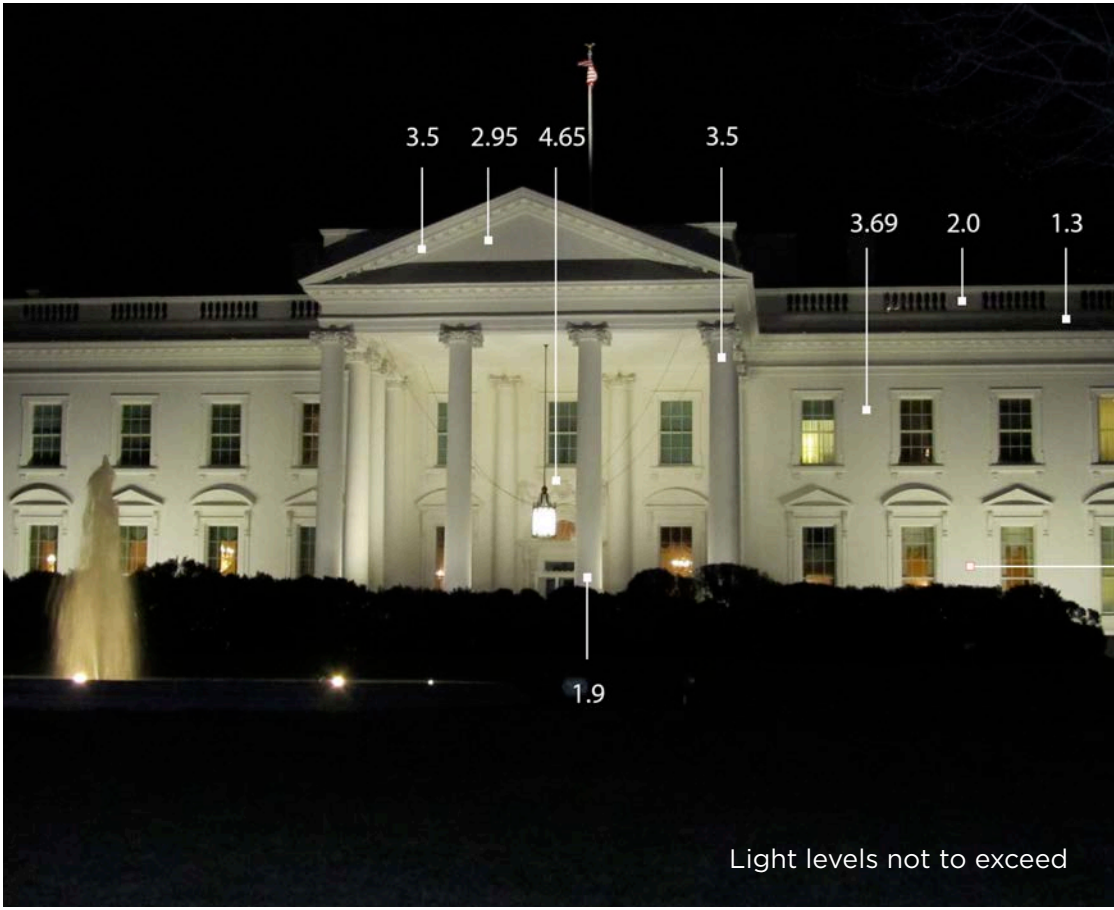
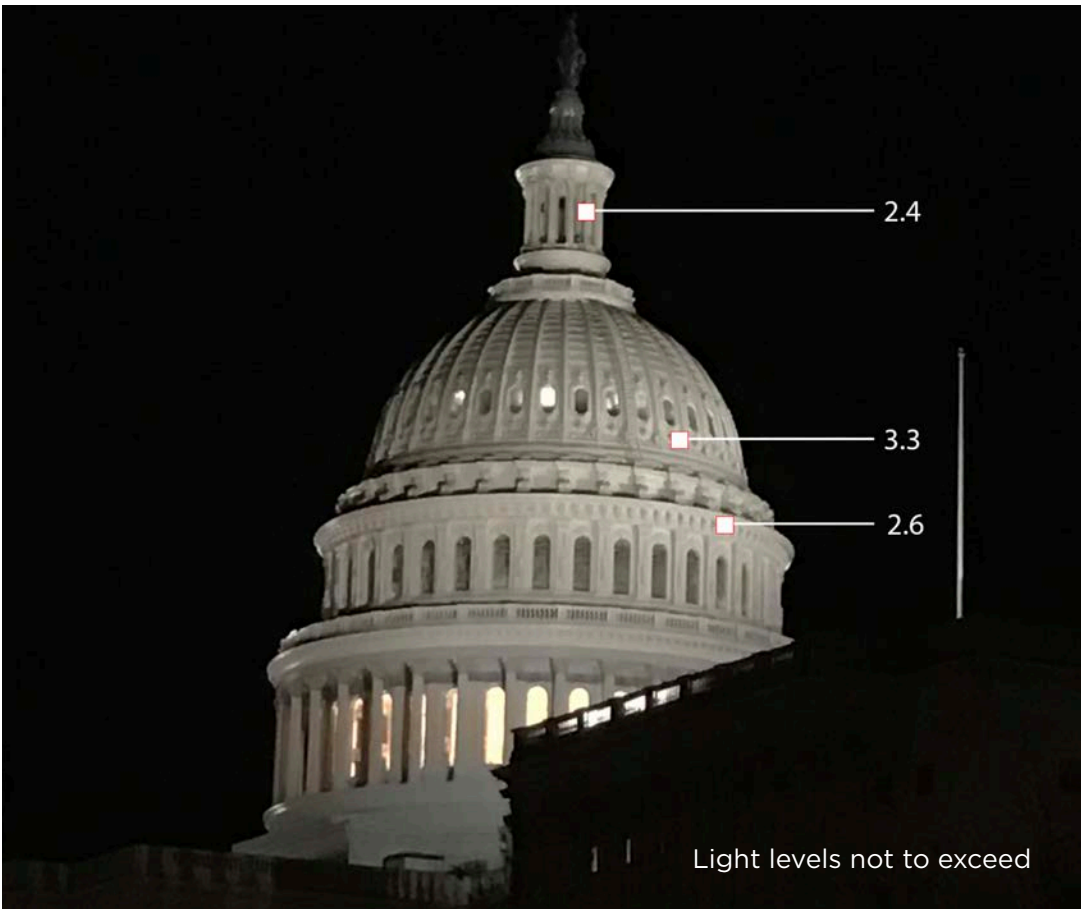
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Lighting Scope
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002



- Replace bank for linear lighting within the attic to a mesh LED over laylites.
- Replace spot lights along retail roof with linear LED to light plaster portion of ceiling.
- Add linear LED's along cornice to light plaster portion of ceiling.
- All lighting to be tunable white, dimmable and addressable.



003



Washington Union Station

Lighting Upgrades

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Precedent Images

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004



Our Approach:




When you see a building lit at night, you should be able to recognize it from what you saw that day. Accentuating dominate features, abstracts and distorts a building. Projecting crossing light onto the elevation respects the historic building form and detail.



**Washington
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Lighting Upgrades

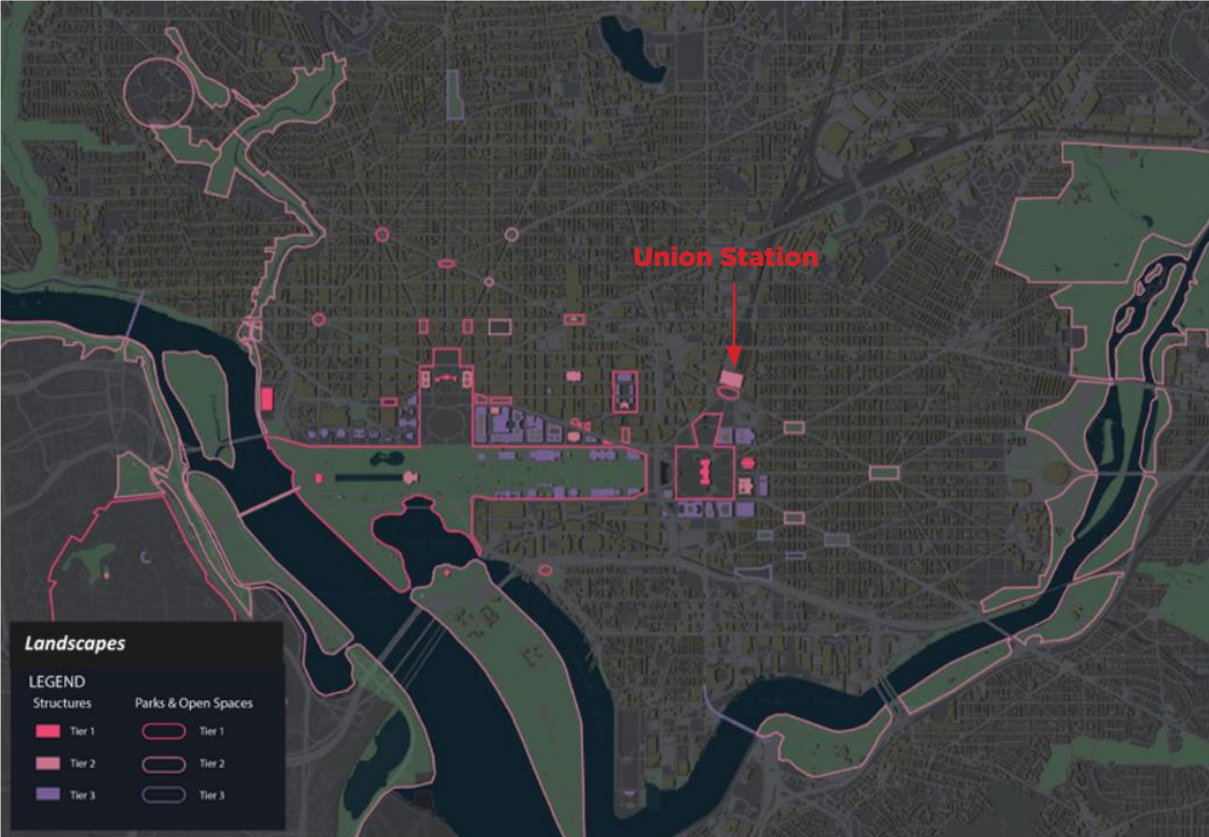
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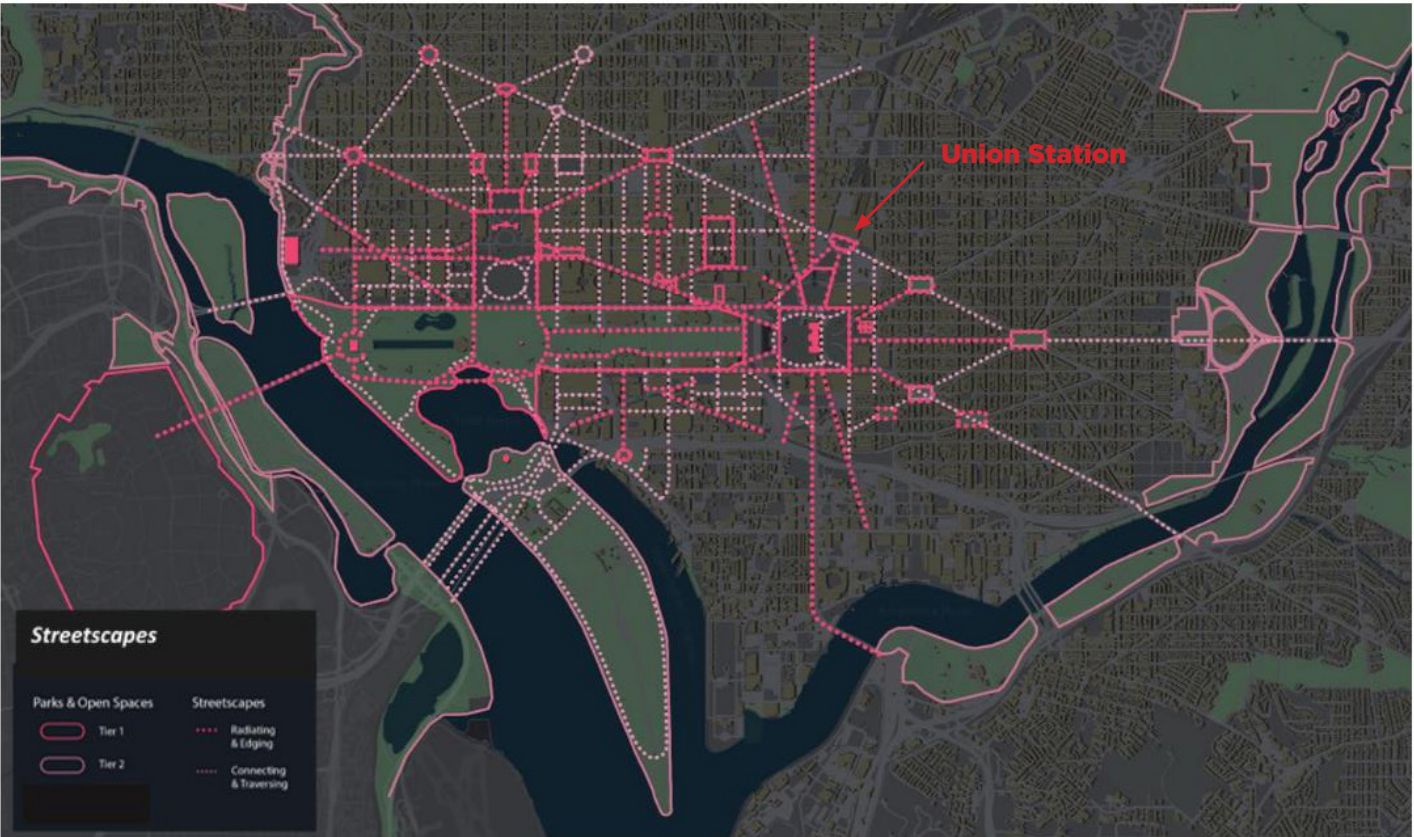
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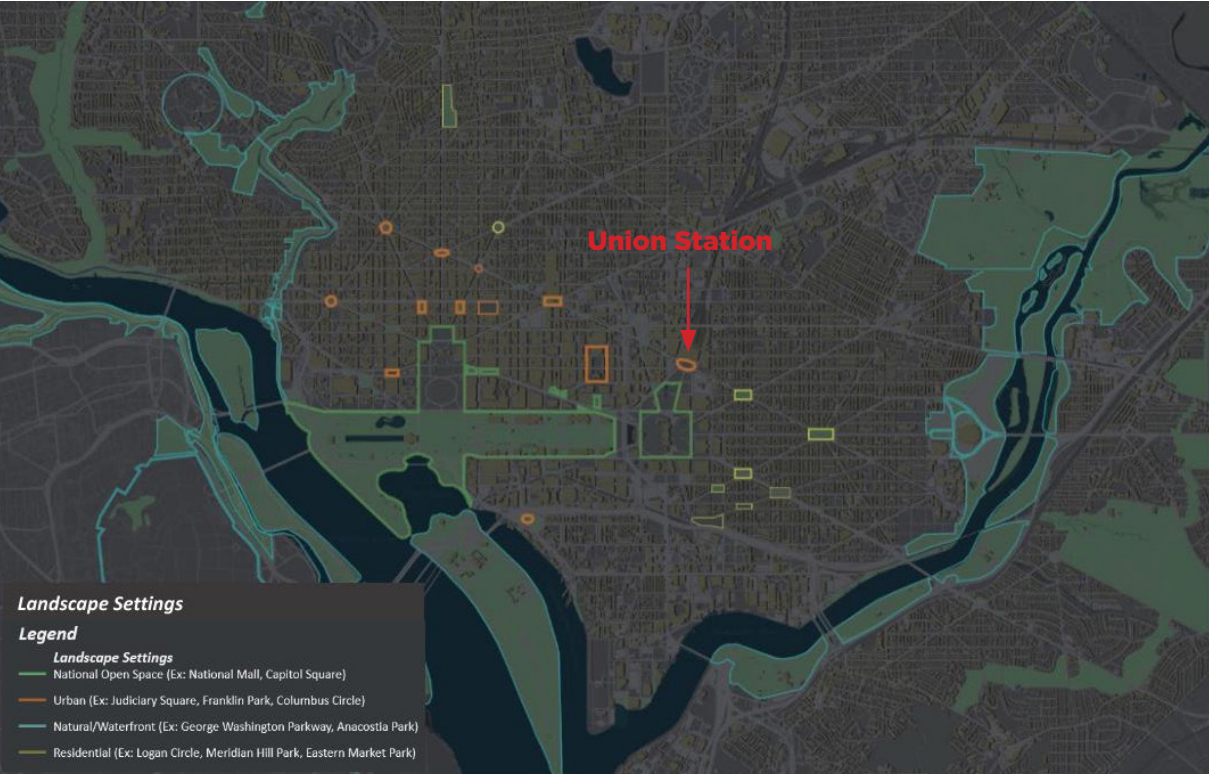
Building - Tier 2/Urban



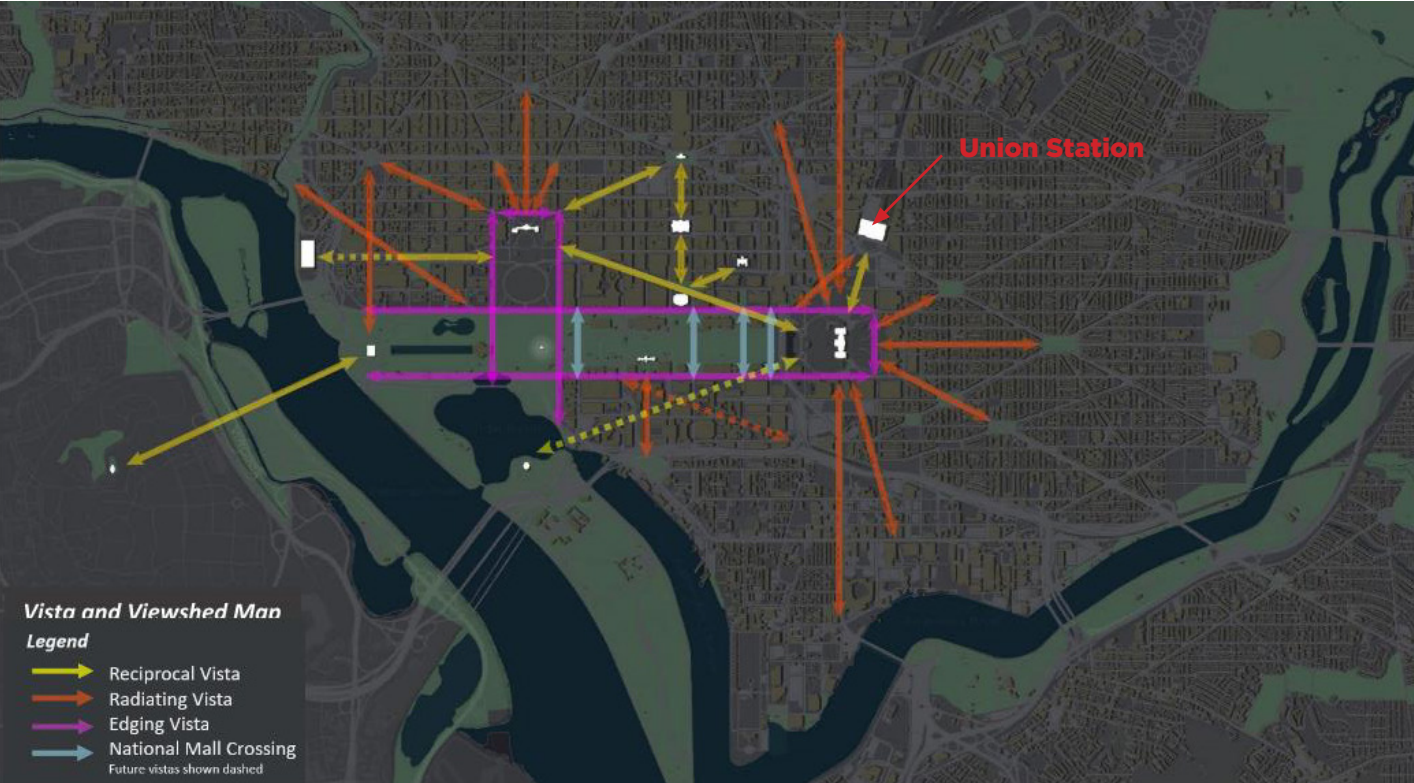
Streetscape - Tier 1/Urban






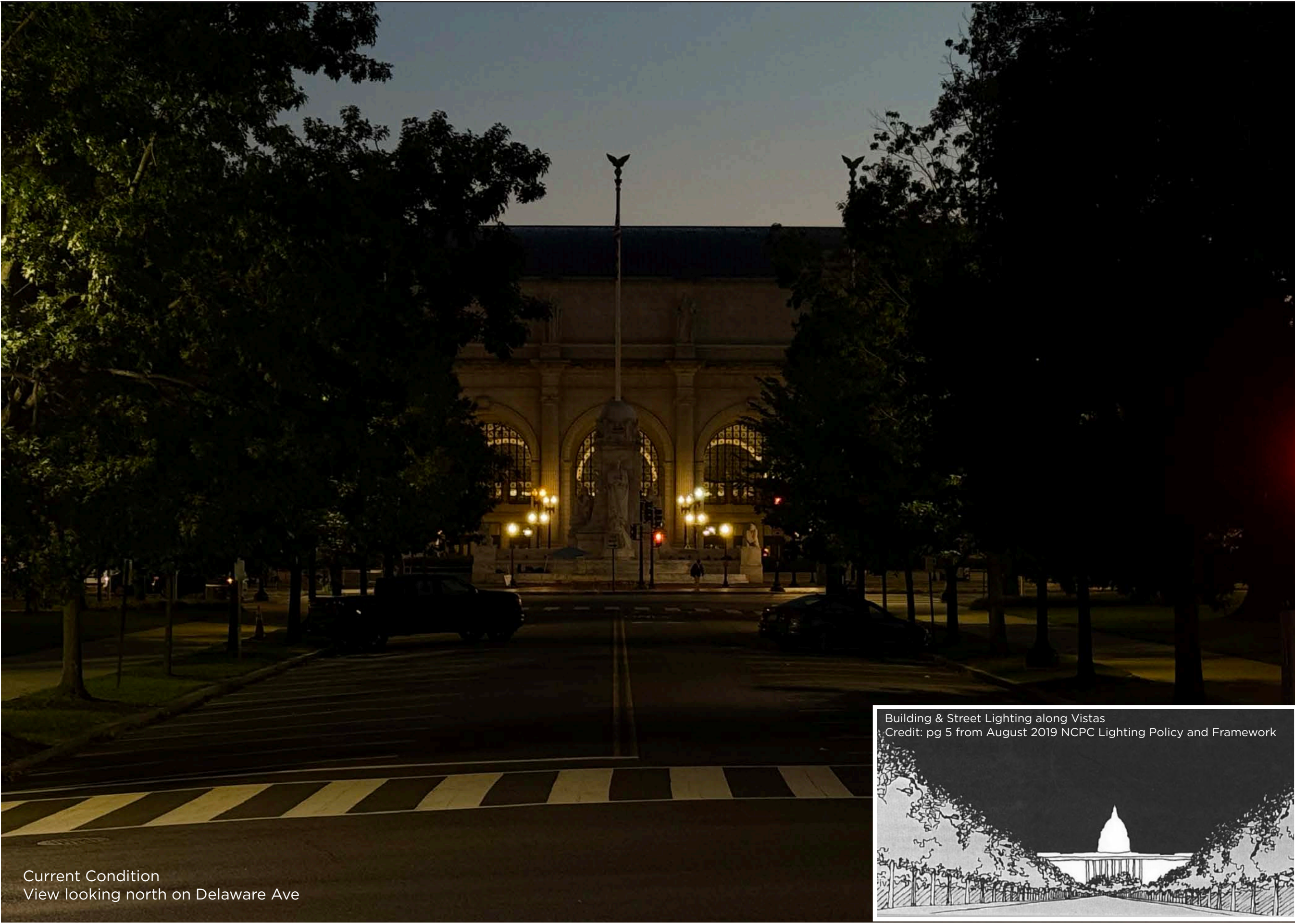
Columbus Circle - Urban



Vista/Viewshed - Reciprocal along Delaware Ave. Radiating along Louisiana Avenue



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September 18, 2025	
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NCPC Lighting Policy and Framework	
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Current Condition
View looking north on Delaware Ave

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Lighting Upgrades

September 18, 2025

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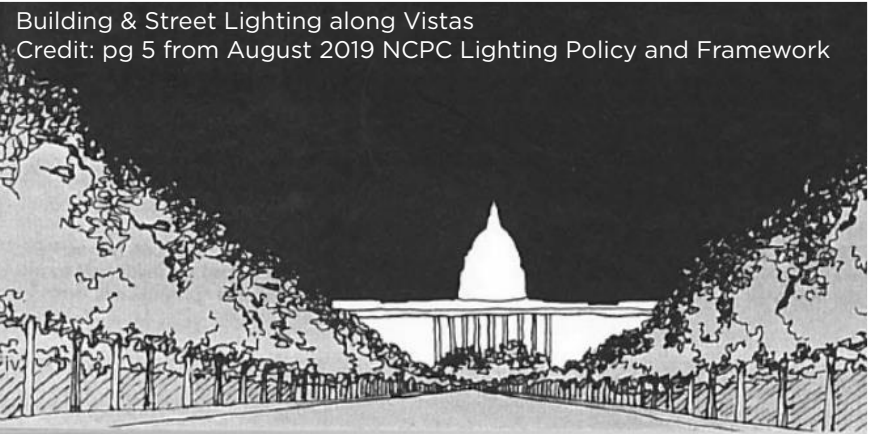
Page Title
Existing Vista

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007

Current Condition
View looking north on Delaware Ave






Proposed Lighting Upgrades
View looking north on Delaware Ave



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Existing & Proposed Side by Side
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“Connecting and Traversing”

Ref: NCPC Lighting Policy and Framework, p. 18
Ref: NCPC Monumental Core Streetscape Project: Lighting Policy and Framework, p . 33

Connecting View Looking East on F Street
Intersection of F St NW and 4th Street NW



Connecting View Looking East on F Street
Intersection of F St NW and New Jersey Ave NW



The majority of the building mass that is visible from F Street is the south facade, which will be lit under this proposal.

Legend

- Extent of west elevation of barrel vault visible from F Street
- Extent of Union Station's south facade visible from F Street

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Page Title <div>Connecting View Looking East on F Street</div>
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Washington Union Station

Lighting Upgrades

September 18, 2025

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Lighting Upgrades

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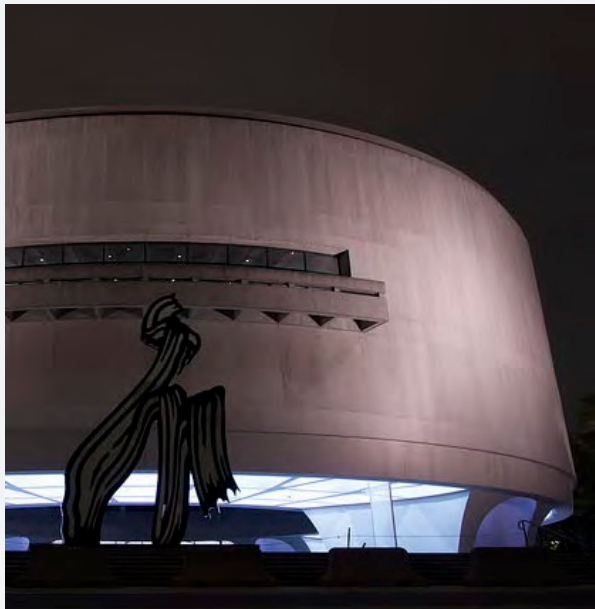
Proposed Lighting Upgrades

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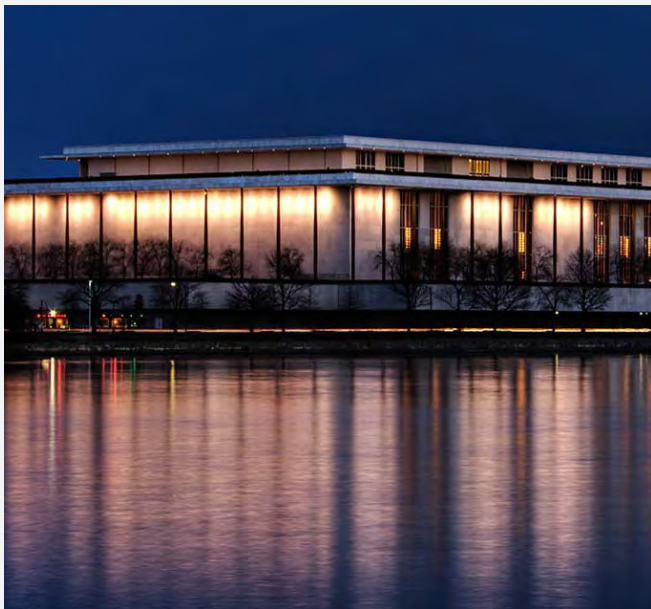
101

Structures

Building:
Hirshhorn
Museum



Building:
Kennedy
Center



Building:
White
House



Event:
Art
Installation
Duration:
apx 8
weeks



Event:
Honors
Ceremony
Duration:
apx 1 week



Event:
Marriage
Equality
Duration:
1-2 nights



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Lighting Upgrades

September 18, 2025

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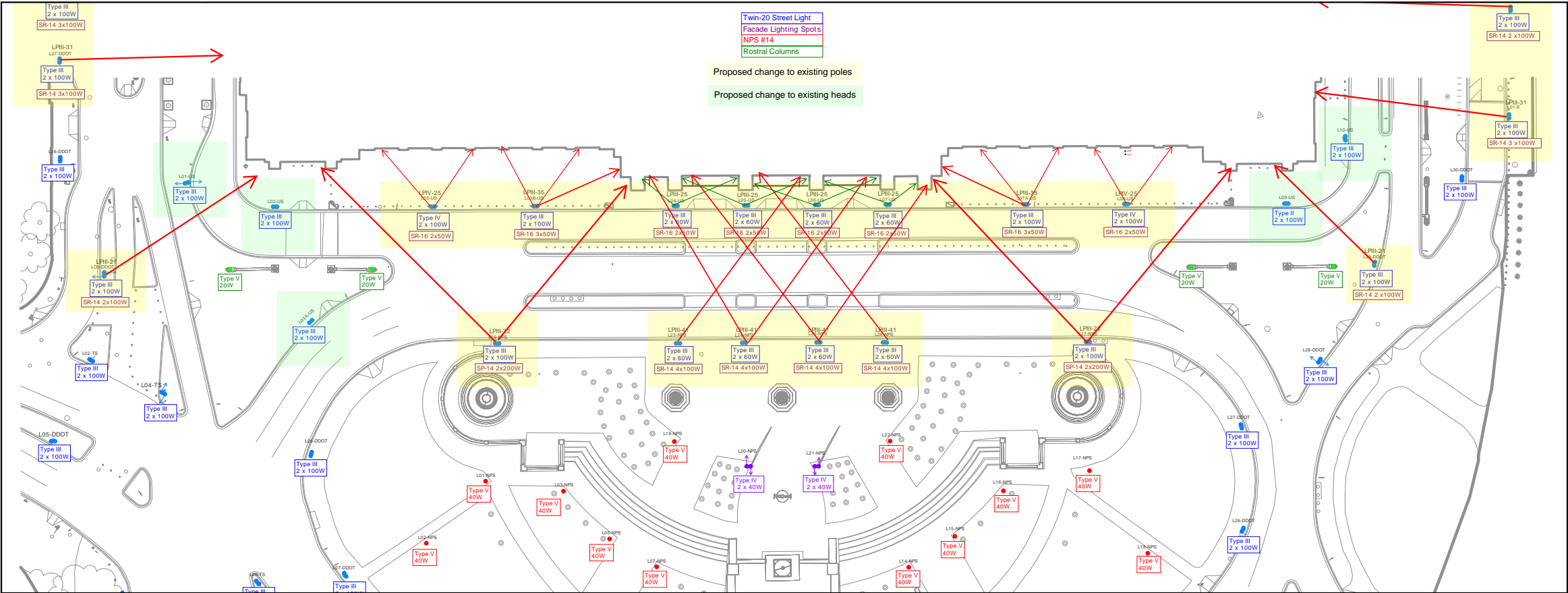
Page Title

**Columbus Plaza
Pole Lights**

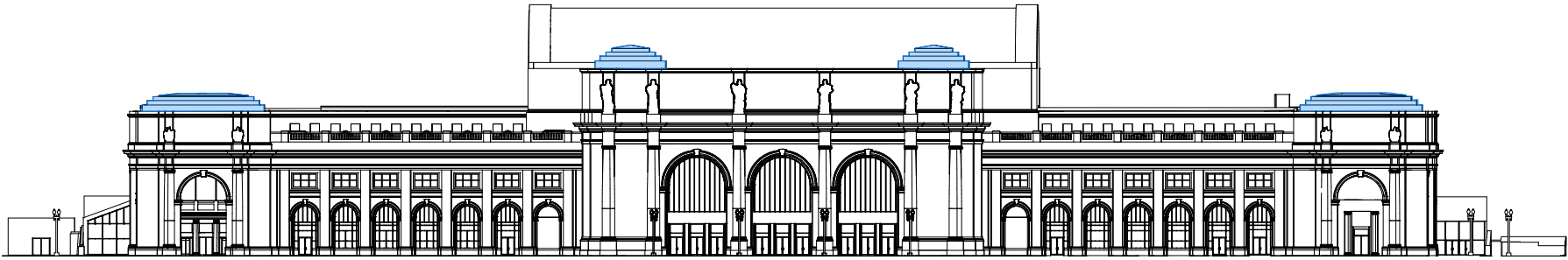
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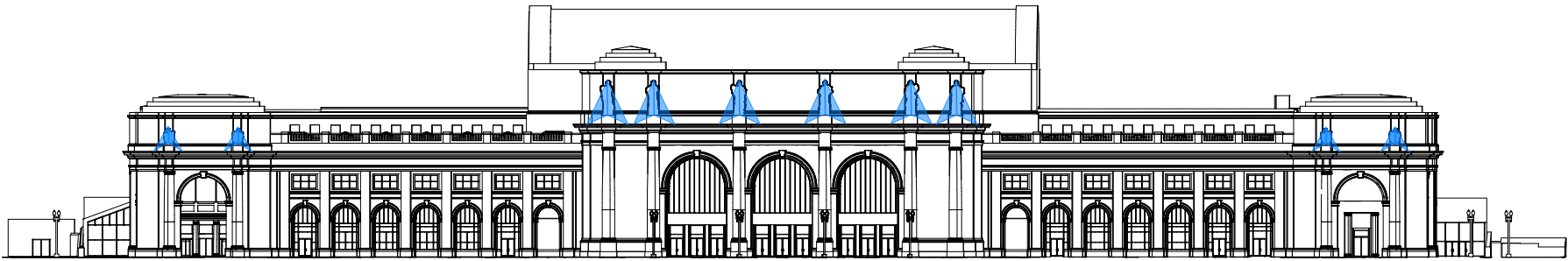
Columbus Circle Lighting Site Plan



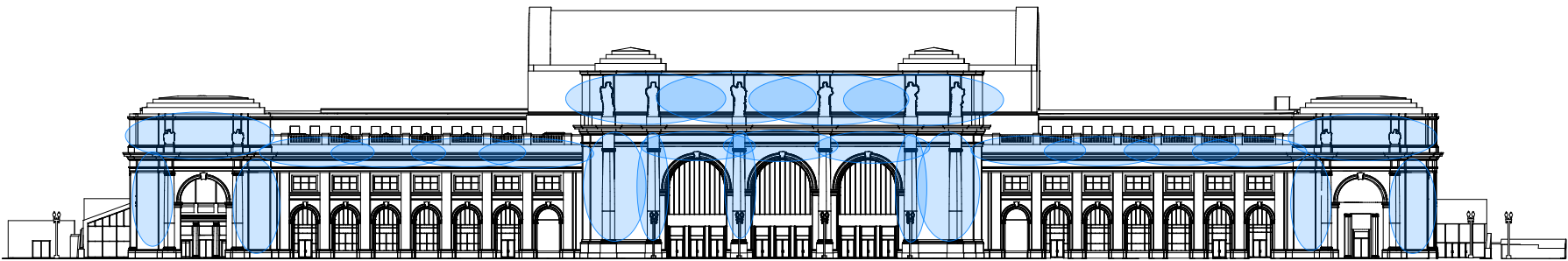
General Notes:
The lighting spread illustrated on the drawings represents the angle of the light spread and the aimed direction from the proposed optics.



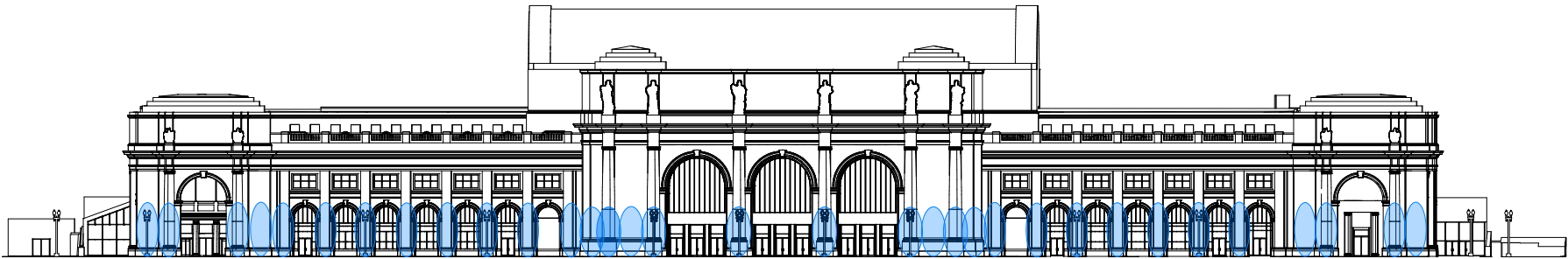
... **Ziggurat Lighting**



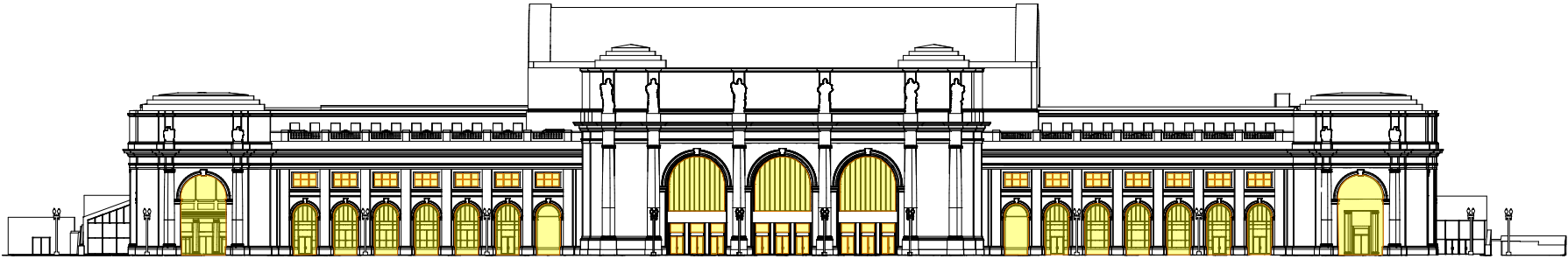
Statue Lighting



... **Facade Field Lighting**



... **Uplighting**



Interior Lighting / "Inner Glow"

Lighting Layers/Control Zones

Ziggurat Lighting

The vertical surfaces of the four corbeled tops are to be illuminated by thin LED linear fixtures tucked tight to the inside corners of the steps.

- 3000 K white
- dimmable between 7% & 100%
- Each ziggurat control by separate circuit

Statue Lighting

The 10 statues above the cornice line are to be illuminated by small LED spot fixtures hidden from an on-grade vantage point.

- 3000 K white
- dimmable between 7% & 100%
- the two west and east statues and the 6 center statues controlled on three separate circuits

Facade Field Lighting

This light is from 25 existing twin-20 streetlight poles, 13 from the station, 6 from NPS and 6 from DDOT. Lights will be aimed 12'-0" min. above grade to eliminate blinding light from people exiting the station.

- 3000 K white
- Each light is individually controlled
- dimmable between 5% & 100%
- the text relief between the statues will be illuminated by linear LED hidden behind the decoration beams, controlled by separate circuit and hidden from view

In-Ground Up-Lighting

To accentuate the piers between the arched openings and to ground the building when lite, single inground lights will be installed

- 3000 K white
- dimmable between 10% & 100%
- controlled on two separate circuits, east and west

Interior Lighting

It is intended the lighting from the interior space, seen through the glazed openings, to be the brightest, the Front colonnade being less bright, and the exterior facade to be less than the colonnade

- 3000 K white
- refer to colonnade and interior lighting plans for controls

Washington Union Station

Lighting Upgrades

September 18, 2025

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ARCHITECT



LIGHTING DESIGNER



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Front Facade Lighting Layers - Individual Layers

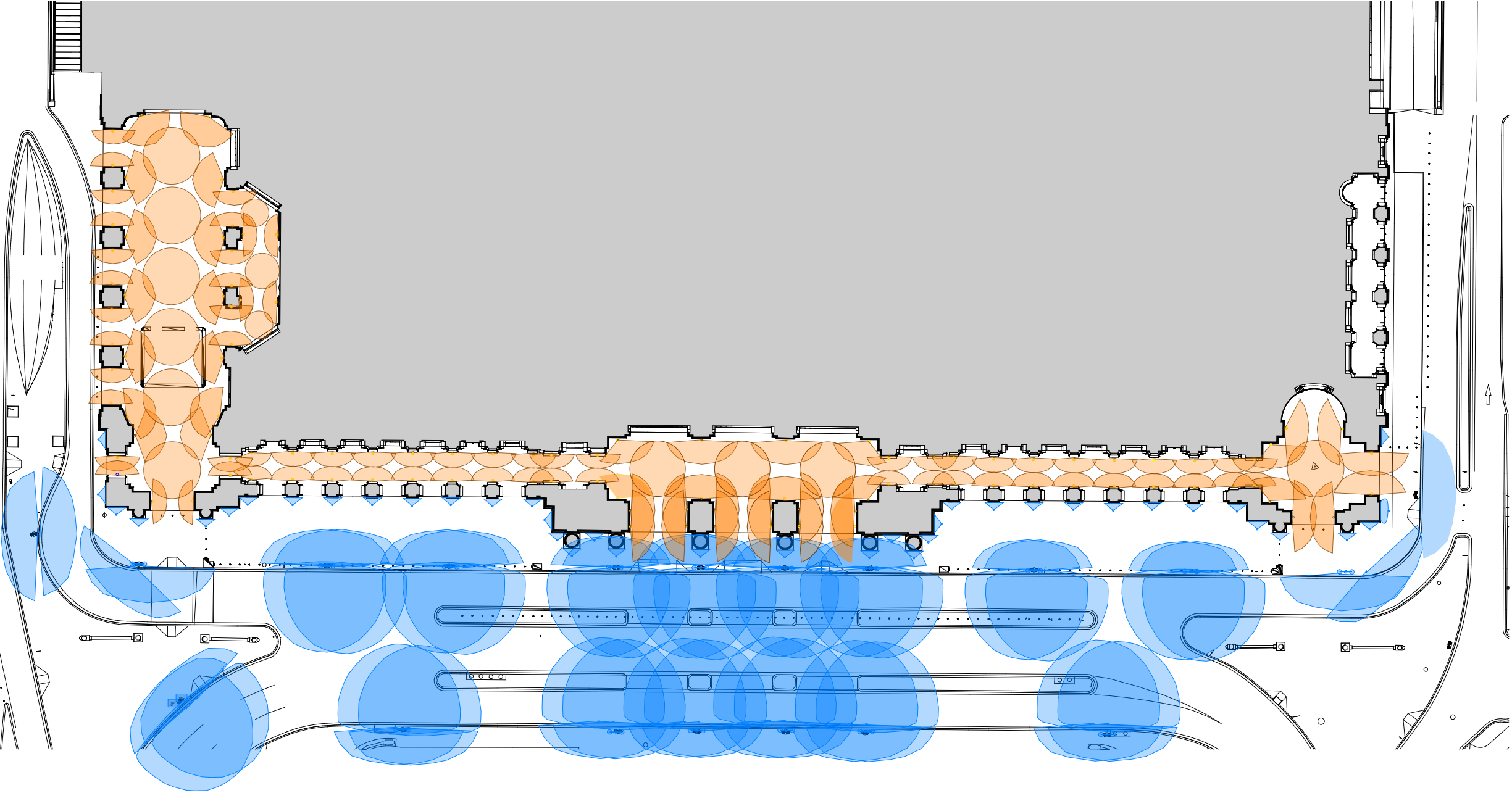
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Main Level Lighting Plan







General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

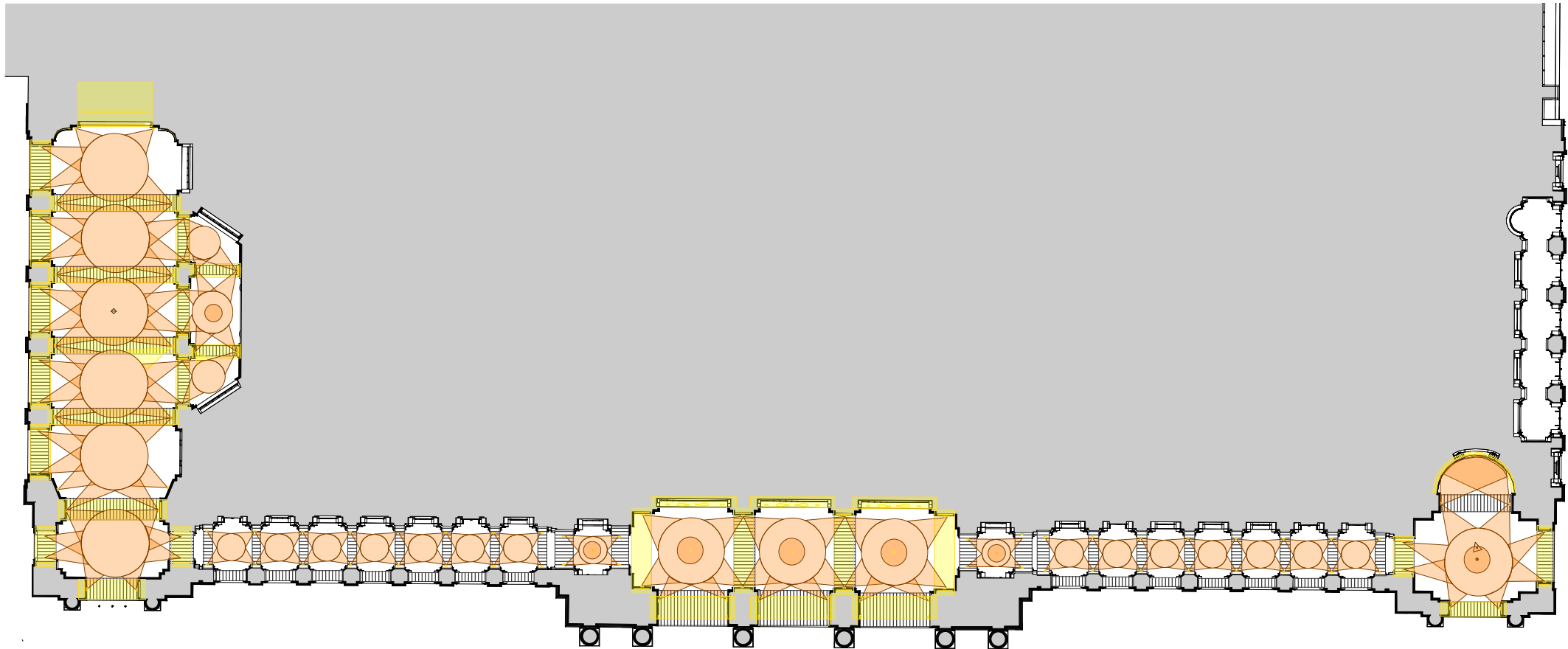
Legend

Light from existing lamp poles

Light from existing historic fixtures with new optics

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<div>Lighting Upgrades</div>
<div>September 18, 2025</div>
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<div>ARCHITECT</div> <div><div> ANTUNOVICH ASSOCIATES ARCHITECTURE PLANNING INTERIOR DESIGN</div></div>
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<div>Page Title</div> <div>Lighting Plan</div>
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Main Level Lighting Reflected Ceiling Plan



General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Legend

Light from new fixtures

Light from existing historic fixtures with new optics

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Page Title <div>Lighting RCP Taxiway & Colonnade</div>
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Existing Condition
Front Entry Portico

Washington Union Station

Lighting Upgrades

September 18, 2025

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Proposed Lighting Upgrades
Front Entry Portico

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Lighting Upgrades

September 18, 2025

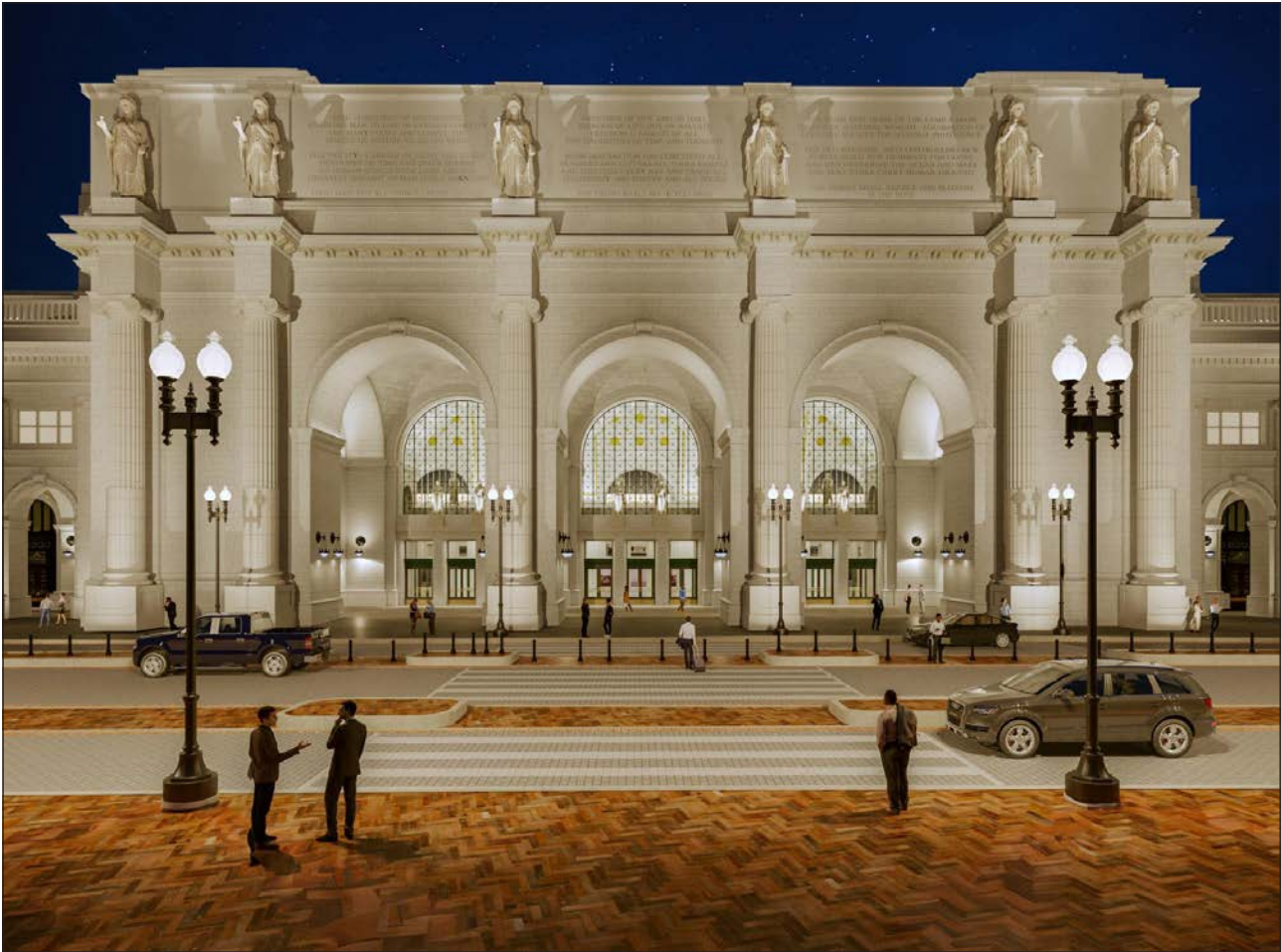
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Main Entrance Proposed Rendering
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Current Condition
Front Entry Portico



Existing Condition Photo

Proposed Lighting Upgrades
Front Entry Portico



Proposed Lighting Design

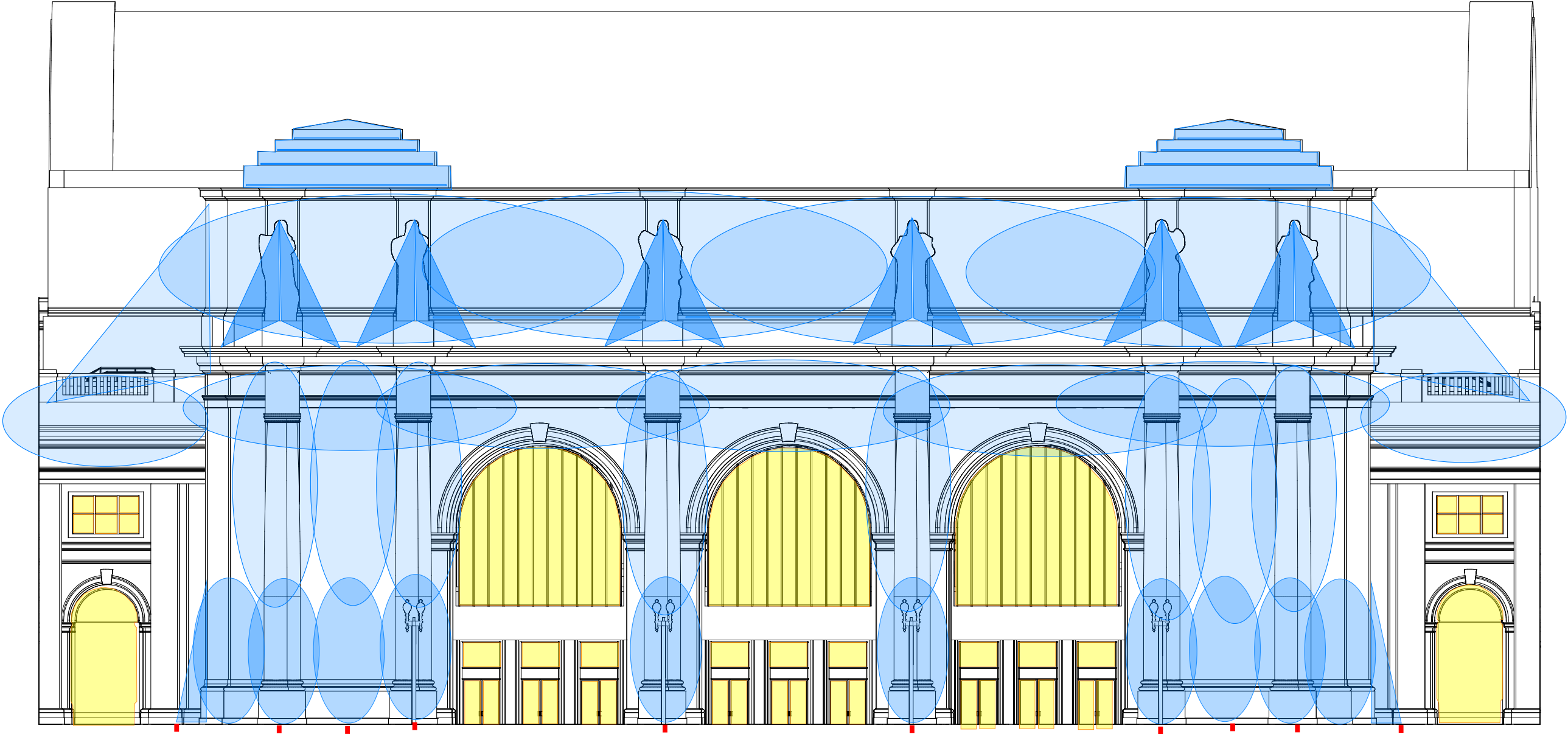
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Lighting Upgrades

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Main Entrance Existing & Proposed
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Partial South Elevation - Main Entry Portico



General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Legend

Light from interior visible from the exterior

Lighting on exterior bulding facade

Washington
Union Station

Lighting Upgrades

September 18, 2025

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Parital Elevation Main Entrance Light Layering
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Lighting Upgrades

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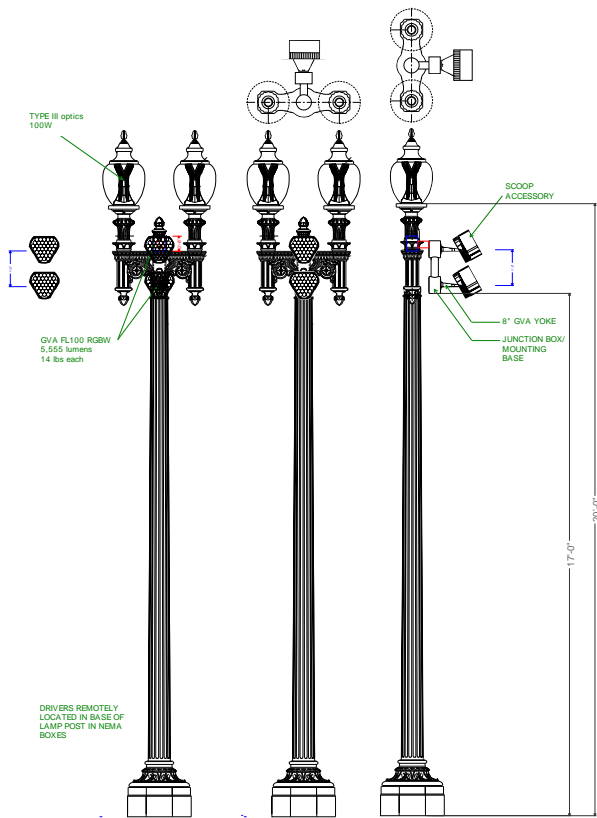
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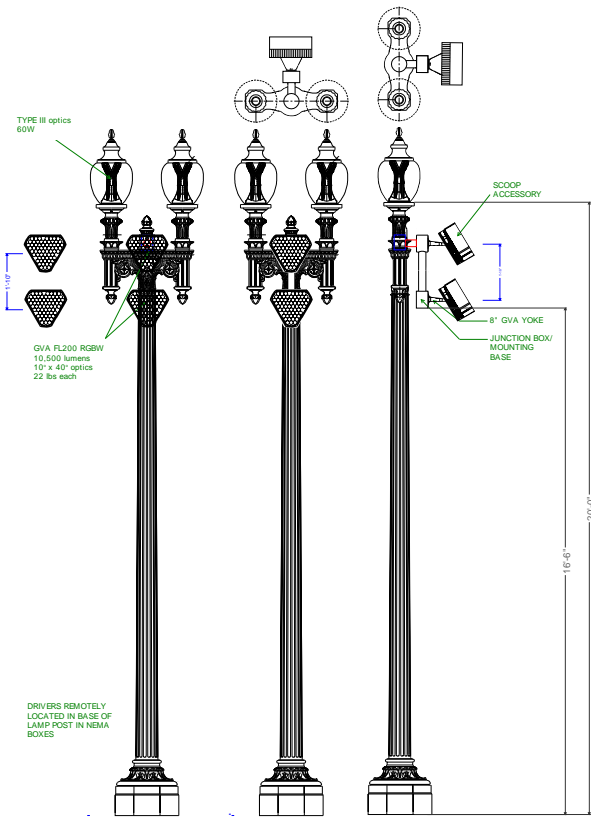
Facade Lighting
Lamp Poles

Page Number

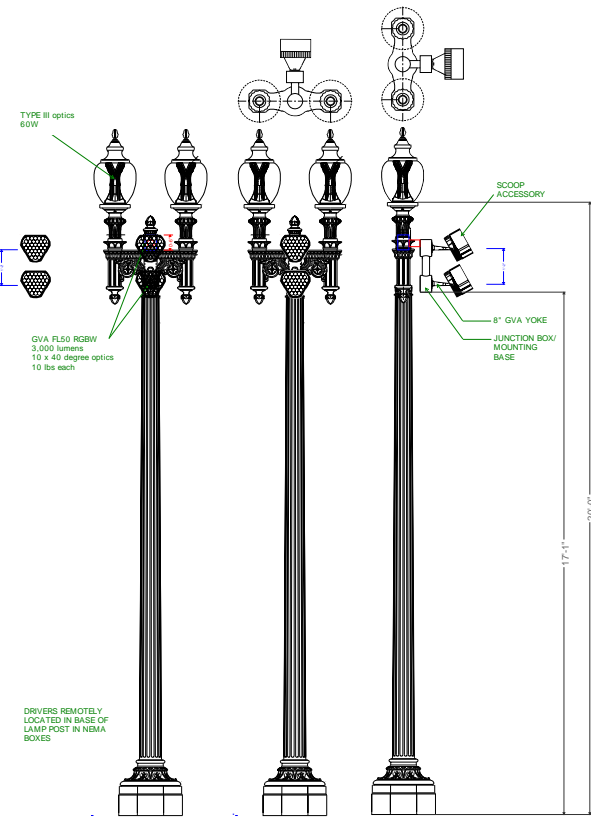
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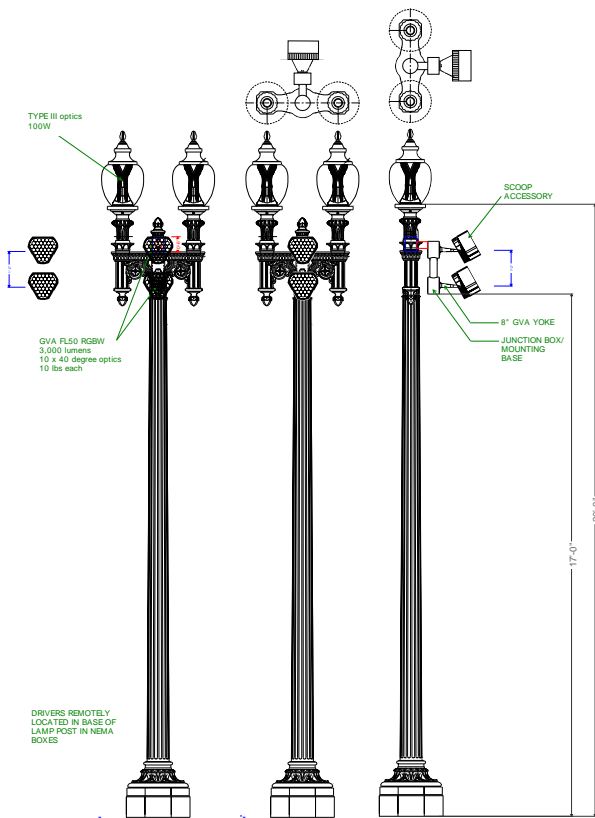
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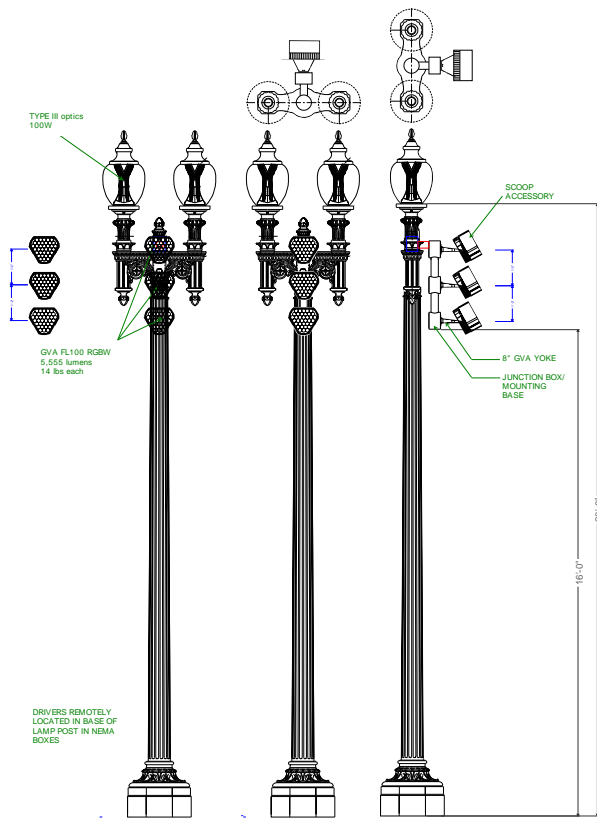
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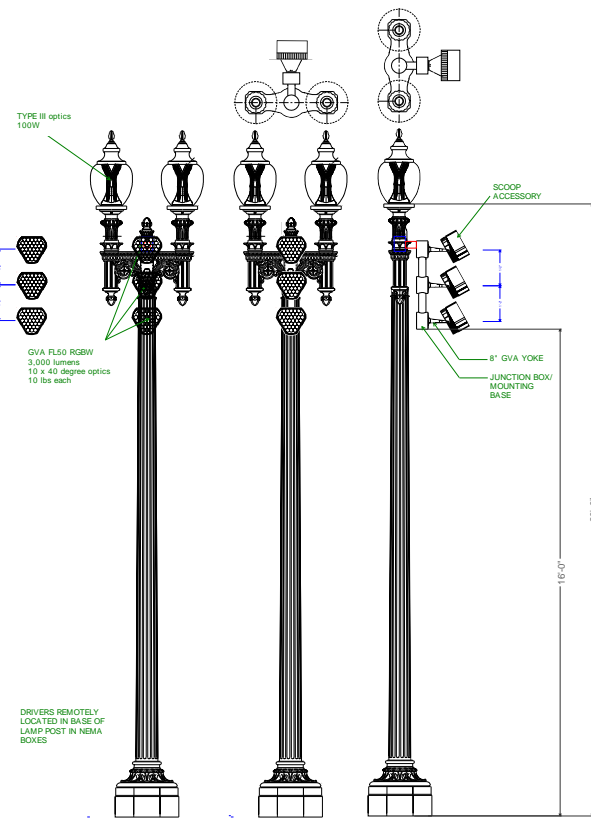
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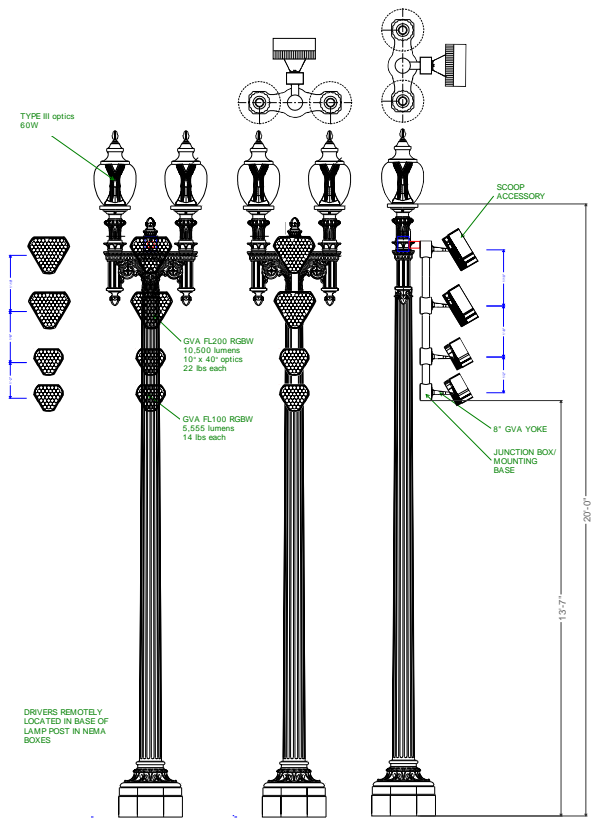
LPIV-25



LPIII-31



LPIII-35



LPIII-41

Union Station Facade Lighting On Lamp Poles

Most of the surrounding streetlights and globe lights are just having their light head replaced with a chip on board or COB LED light engine with the directional optics, low glare, and 3000K.

In the case of lamp posts where we need to mount facade lighting, the whole lamp post needs to be replaced so that it can be reinforced at the top where the central newel is lifted to accommodate the “mounting center hub”. The lamp source would also be upgraded to LED and outfitted with the right power and optics.



Existing Condition
Colonnade

Washington
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Lighting Upgrades

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Colonnade -
Existing

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Colonnade - Proposed Rendering

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A wide-angle, low-perspective shot of the interior of Grand Central Terminal. The image captures the grandeur of the space, dominated by the massive, vaulted stone ceiling. A large, circular skylight at the top center allows natural light to filter in. Below the ceiling, a series of large, arched windows with intricate, dark metal grilles are visible. The walls are constructed from light-colored stone blocks, and the floor is a smooth, polished surface. Warm, ambient lighting is provided by several wall-mounted sconces and a series of pendant lights hanging from the ceiling. In the distance, a few people can be seen walking through the terminal, adding a sense of scale to the vast space. The overall atmosphere is one of historical elegance and architectural grandeur.

A wide-angle photograph of the main concourse of Grand Central Terminal. The image captures the iconic vaulted ceiling with its repeating arches and circular skylights. On the left, the mezzanine level is visible, featuring white statues and a large, ornate glass and metal skylight. The ground floor is a spacious hall with high ceilings, supported by large columns. In the foreground, there are large glass doors and windows. The perspective leads the eye down the length of the terminal, where a few people can be seen walking in the distance.

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Washington
Union Station

Lighting Upgrades

September 18, 2025

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9/05/2025 - NCPC Submission
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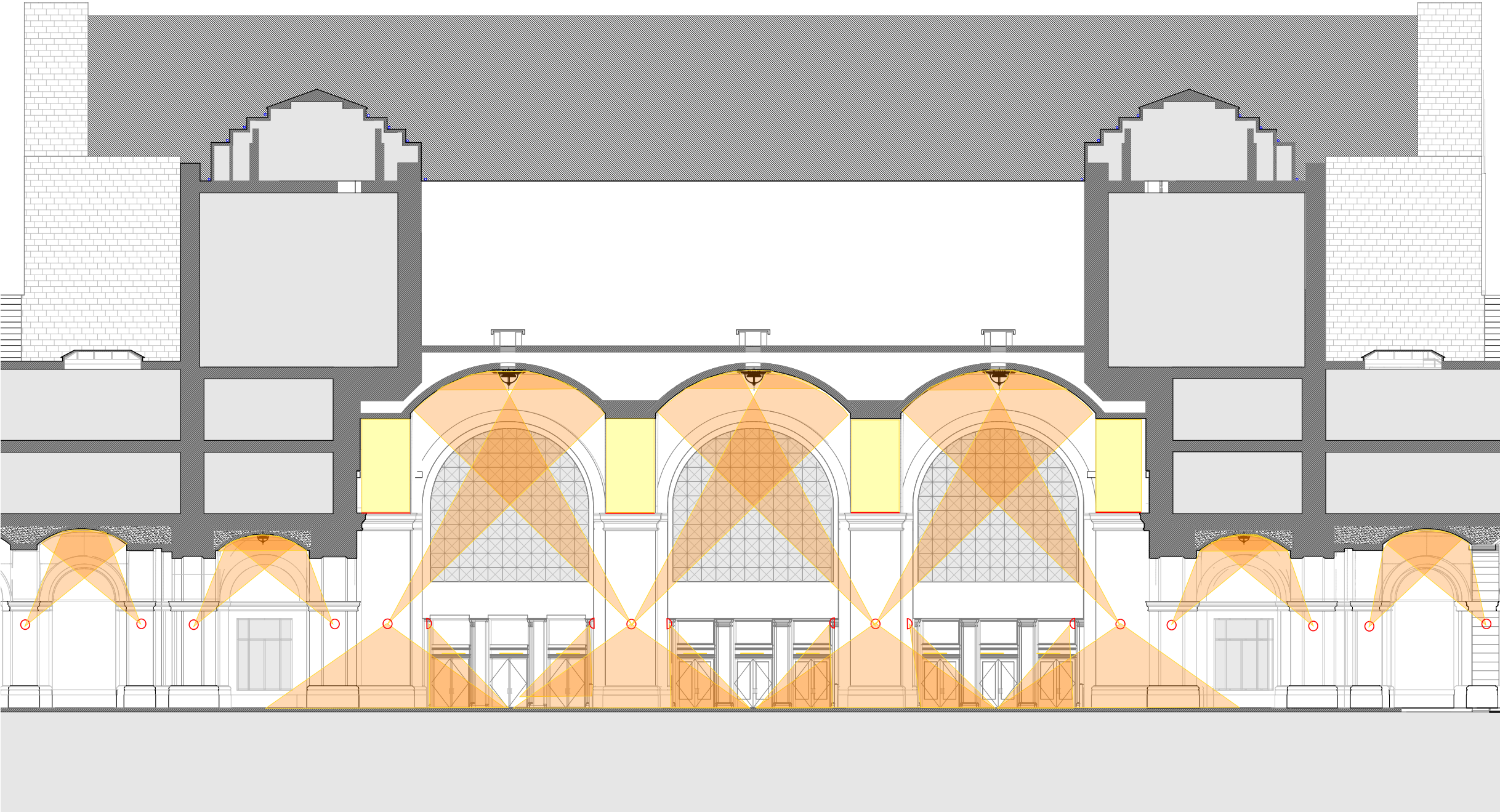
Page Title

**Lighting Section -
Main Entry Portico**

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Building Section - Main Entry Portico



General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

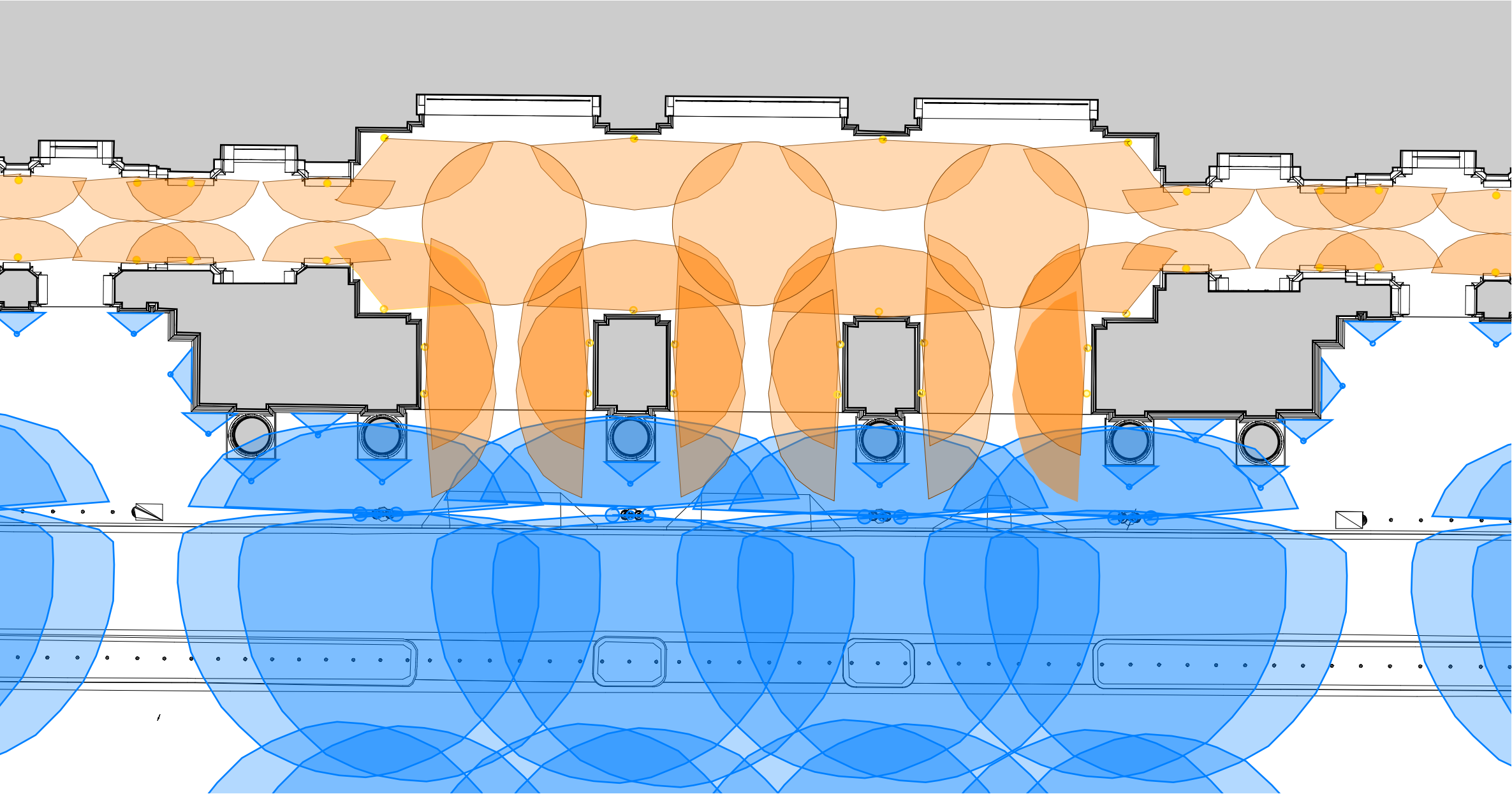
Legend

-  Light from new fixtures
-  Light from existing historic fixtures with new optics

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Partial Floor Plan - Main Entry Portico Lighting

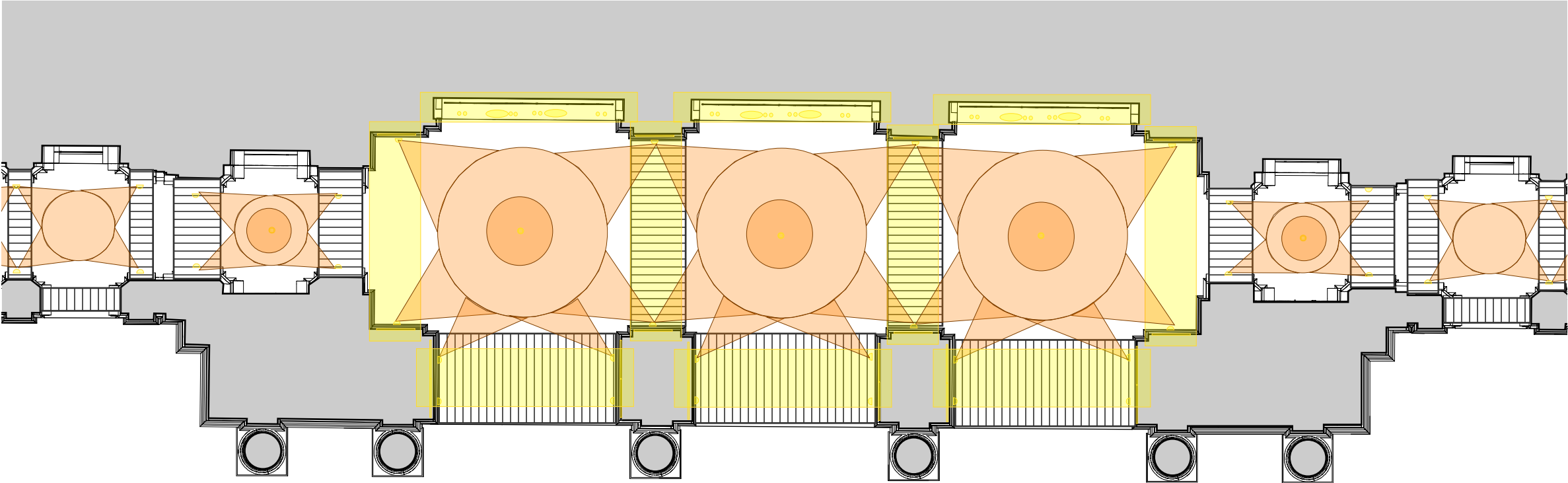


General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Legend

-  Light from existing lamp poles
-  Light from existing historic fixtures with new optics

Partial Reflected Ceiling Plan - Main Entry Portico Lighting







General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Legend

Light from new fixtures

Light from existing historic fixtures with new optics

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<div>CIVIL ENGINEER</div> <div><div> AMT LLC PROFESSIONAL ENGINEERS & LAND SURVEYORS</div></div>
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<div>Page Title</div> <div>Lighting RCP - Colonnade at Front Entrance</div>
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Historic Sconce



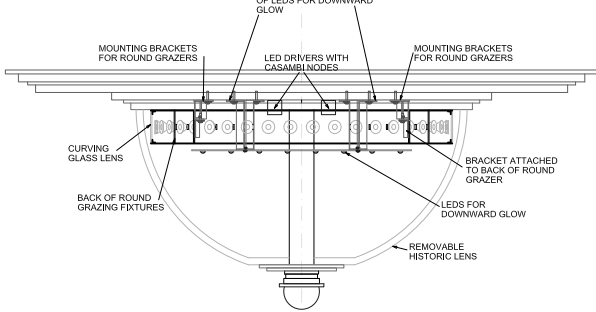
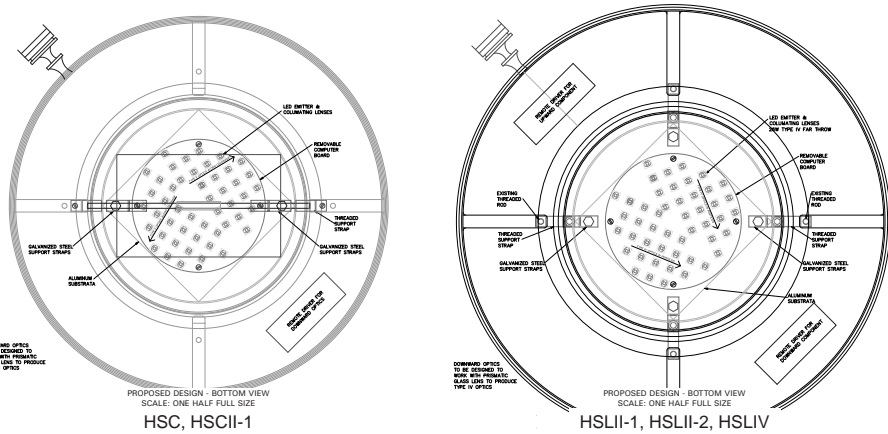
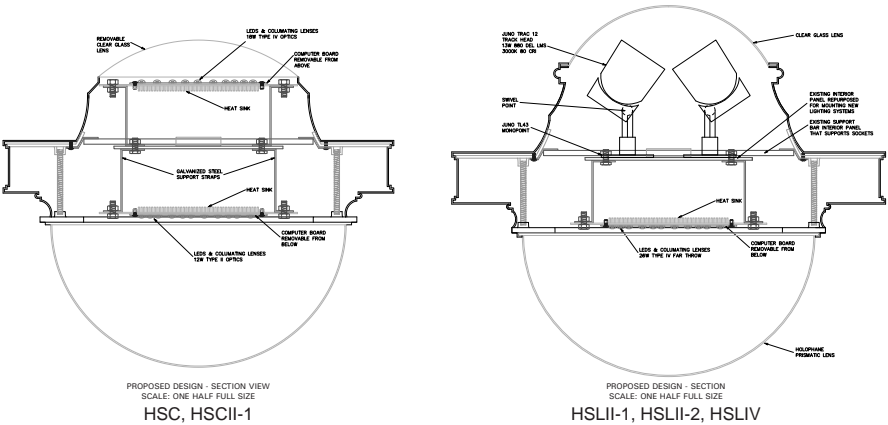
Historic Dome Light



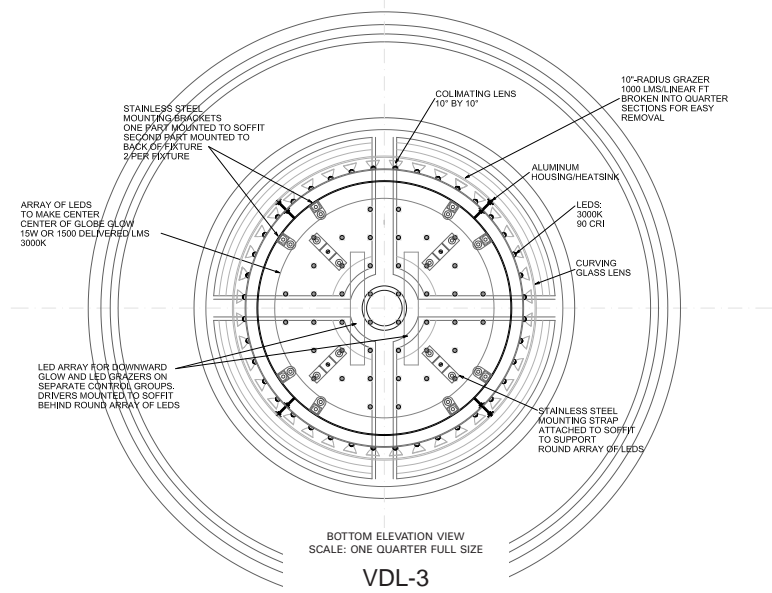
Rostral Lamp Posts along First Street



Dome Light Section Detail



Dome Light Plan Detail



Existing Historic Light Fixtures

There are (5) types of historic light fixtures in and around Union Station:

Dome Lights

Two Sizes, Large dome lights are located within the front entry portico, small dome lights are located at the Executive Entry and Carriage porch.

Hanging Sconces

Two Sizes, Large sconces are located within the front entry portico, small sconces are located throughout the remainder of the building.

Hanging Pendants (not shown)

Located within the East Hall

Globe streetlights

(7) along west side of station
(11) along east side of the station

Ceiling Fixtures (Jelly Jars) (Not Shown)

Single bulb fixtures within the ceilings of the vestibules and on the underside of the colonnade separating the East and West Halls from the Main Hall.

General Note:

All existing historic fixtures are to remain in their current location. All exterior casing, glass, brackets, chains, eschutcheons, etc composing the exterior appearance of the fixture will be maintained. The proposed modifications will be to remove the internal optics, from a previous retrofit in the 1980's, with LED optics to provide down and up lighting. All modifications to these lights can be completed without removal of the fixture.

The historic case iron globe light poles will need to be removed to have the rust removed, any necessary repair to the case iron, and be repainted. They will all be reinstalled in their current locations.

Washington
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Lighting Upgrades

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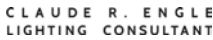
OWNER



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LIGHTING DESIGNER



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MEP & FP ENGINEERS



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Historic Light
Fixtures

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Existing Condition
Carriage Porch

Washington Union Station

Lighting Upgrades

September 18, 2025

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Carriage Porch - Existing
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Proposed Lighting Upgrades
Carriage Porch

Washington
Union Station

Lighting Upgrades

September 18, 2025

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Page Title
**Carriage Porch -
Proposed
Rendering**

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Current Condition
Carriage Porch



Existing Condition Photo

Proposed Lighting Upgrades
Carriage Porch



Proposed Lighting Design

Washington
Union Station

Lighting Upgrades

September 18, 2025

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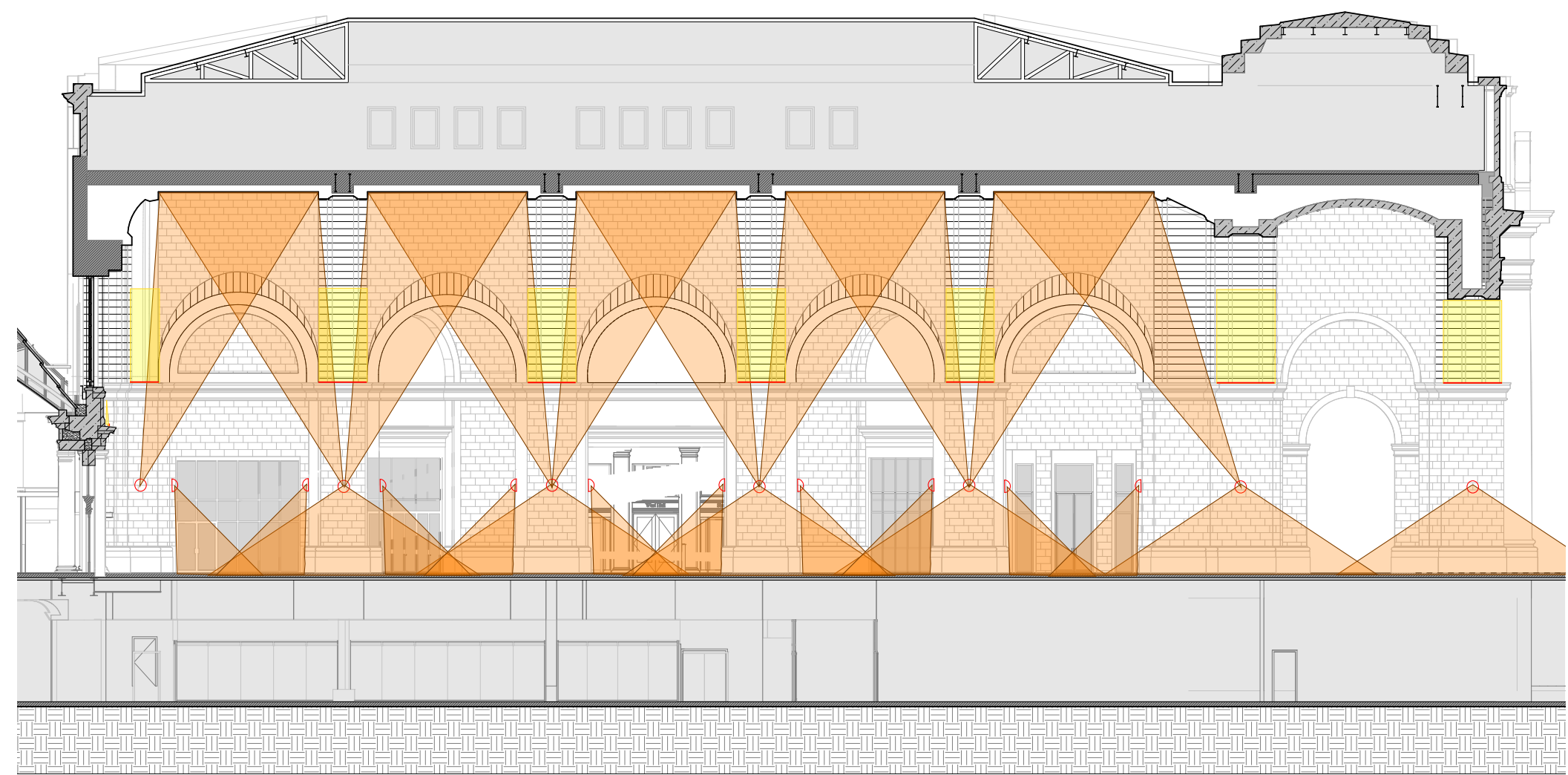
Page Title

Carriage Porch -
Existing &
Proposed

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Building Section - Carriage Porch



General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics

Legend

Light from new fixtures

Light from existing historic fixtures with new optics

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Page Title <div>Lighting Section Carriage Porch</div>
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Washington
Union Station

Lighting Upgrades

September 18, 2025

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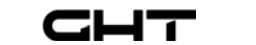
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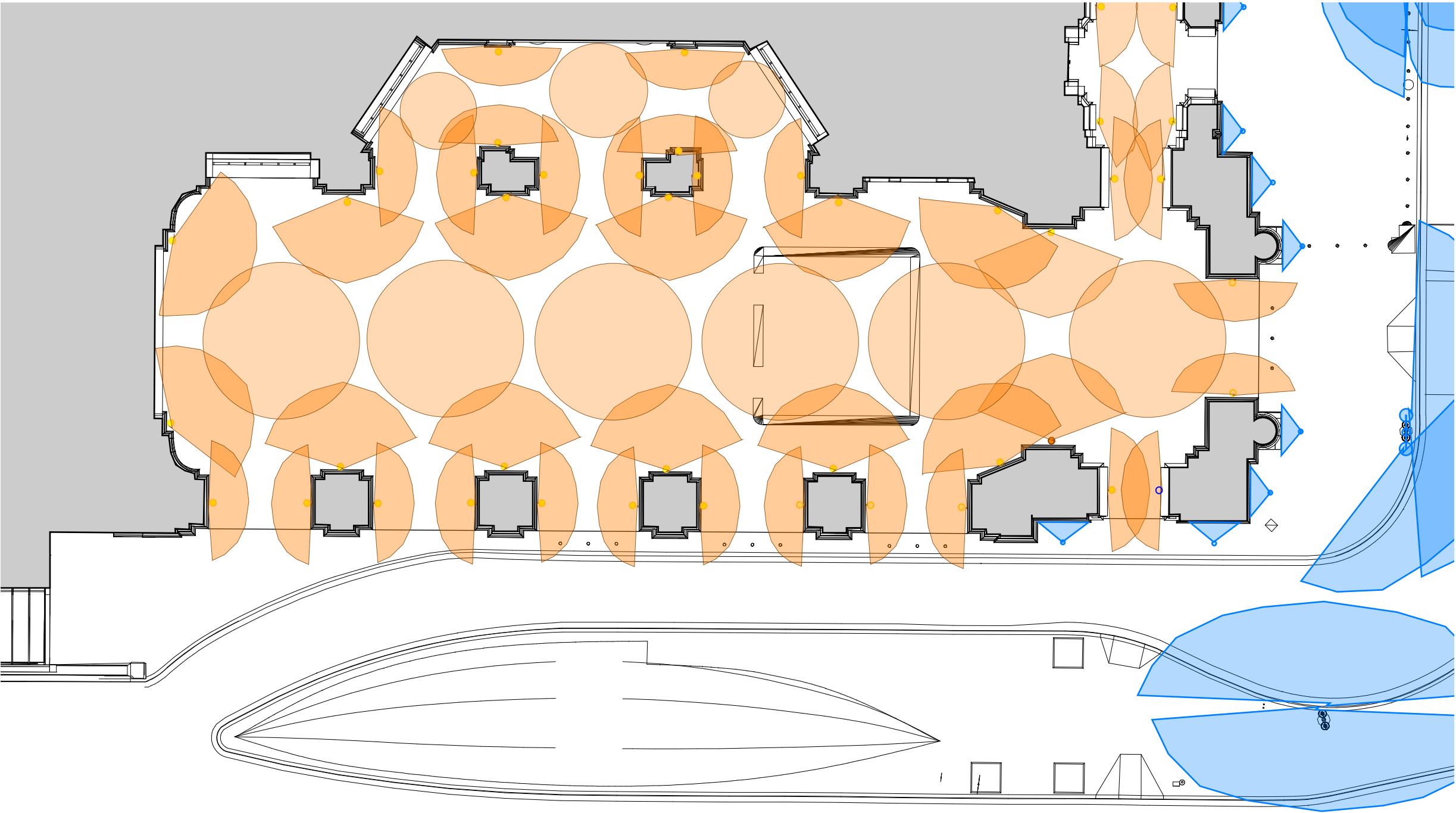
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Lighting Plan
Carriage Porch

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Partial Floor Plan - Carriage Porch

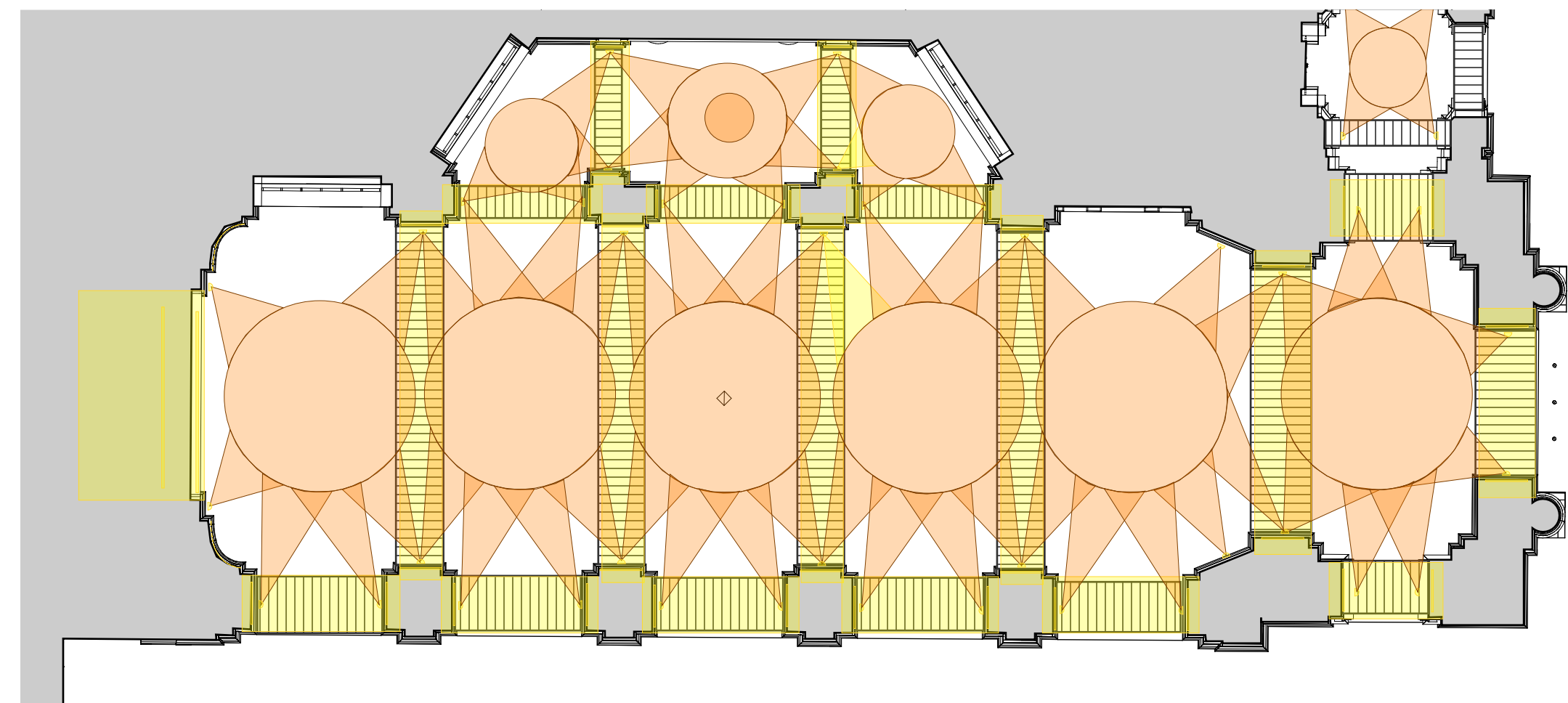


General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics

Legend

- Light from existing lamp poles
- Light from existing historic fixtures with new optics

Partial Reflected Ceiling Plan - Carriage Porch







General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics

Legend

Light from new fixtures

Light from existing historic fixtures with new optics

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Carriage Porch Lighting RCP
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Existing Condition
Main Hall

Washington Union Station

Lighting Upgrades

September 18, 2025

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Main Hall - Existing
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Proposed Lighting Upgrades
Main Hall

Washington
Union Station

Lighting Upgrades

September 18, 2025

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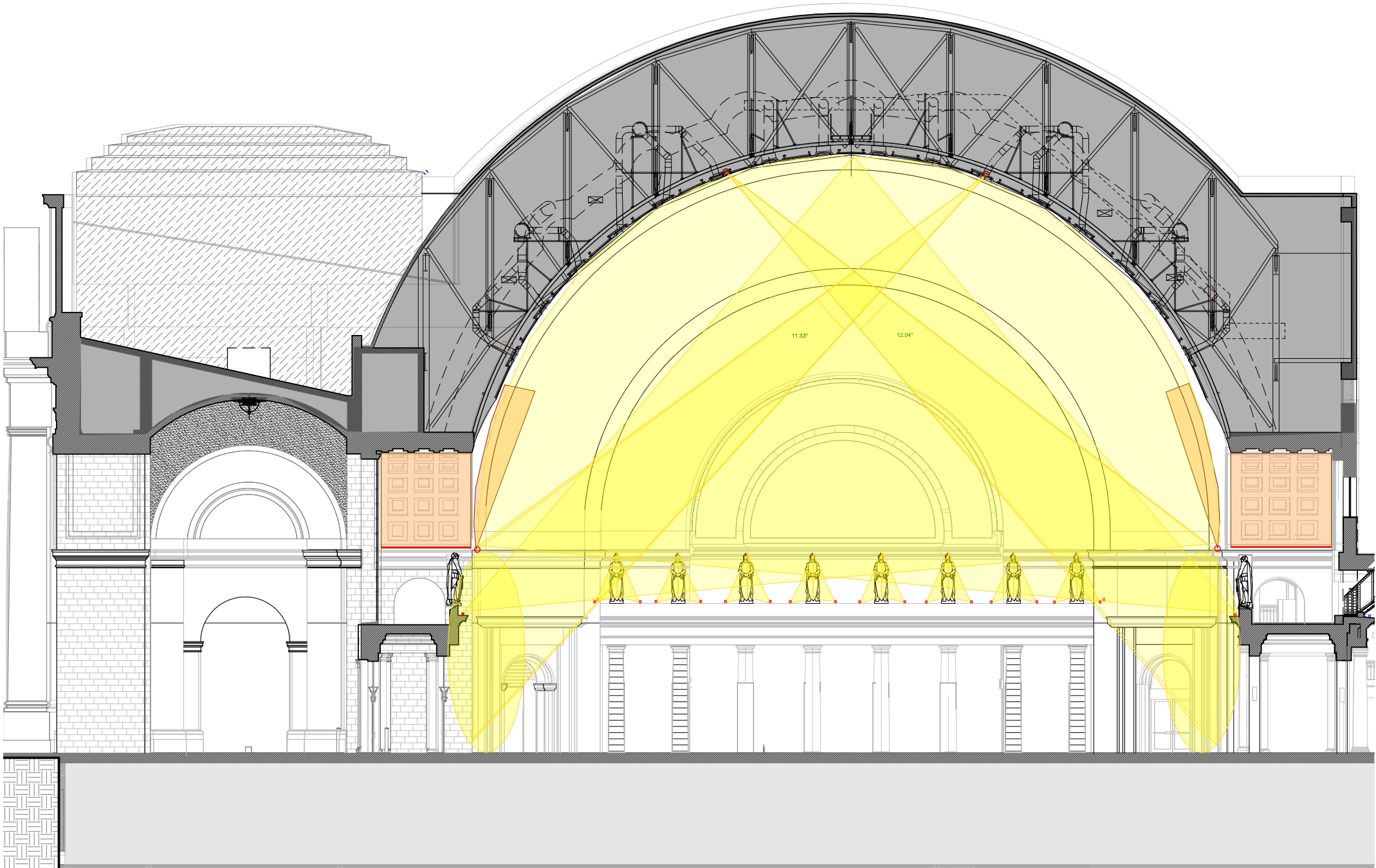
Existing Condition Photo

A wide-angle photograph of the interior of the National Congress Building in Beijing. The image captures a vast, grand hall with a high, vaulted ceiling. The ceiling is adorned with a repeating pattern of octagonal and circular motifs, some of which are illuminated from within, creating a warm, golden glow. The walls are also decorated with ornate architectural details, including arched niches and columns. The floor is highly polished and reflective, mirroring the ceiling and the people walking through the space. Several individuals are visible, providing a sense of scale to the enormous room. The overall atmosphere is one of elegance and grandeur, reflecting the building's role as a significant national institution.

Proposed Lighting Design

302

Building Section - Main Hall



General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics

Legend

Light from new fixtures

Light from new fixtures replacing existing modern fixtures in-situ

Washington
Union Station

Lighting Upgrades

September 18, 2025

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Lighting Section - Main Hall
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Existing Condition
West Hall

Washington Union Station

Lighting Upgrades

September 18, 2025

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**West Hall -
Existing**

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Proposed Lighting Upgrades
West Hall

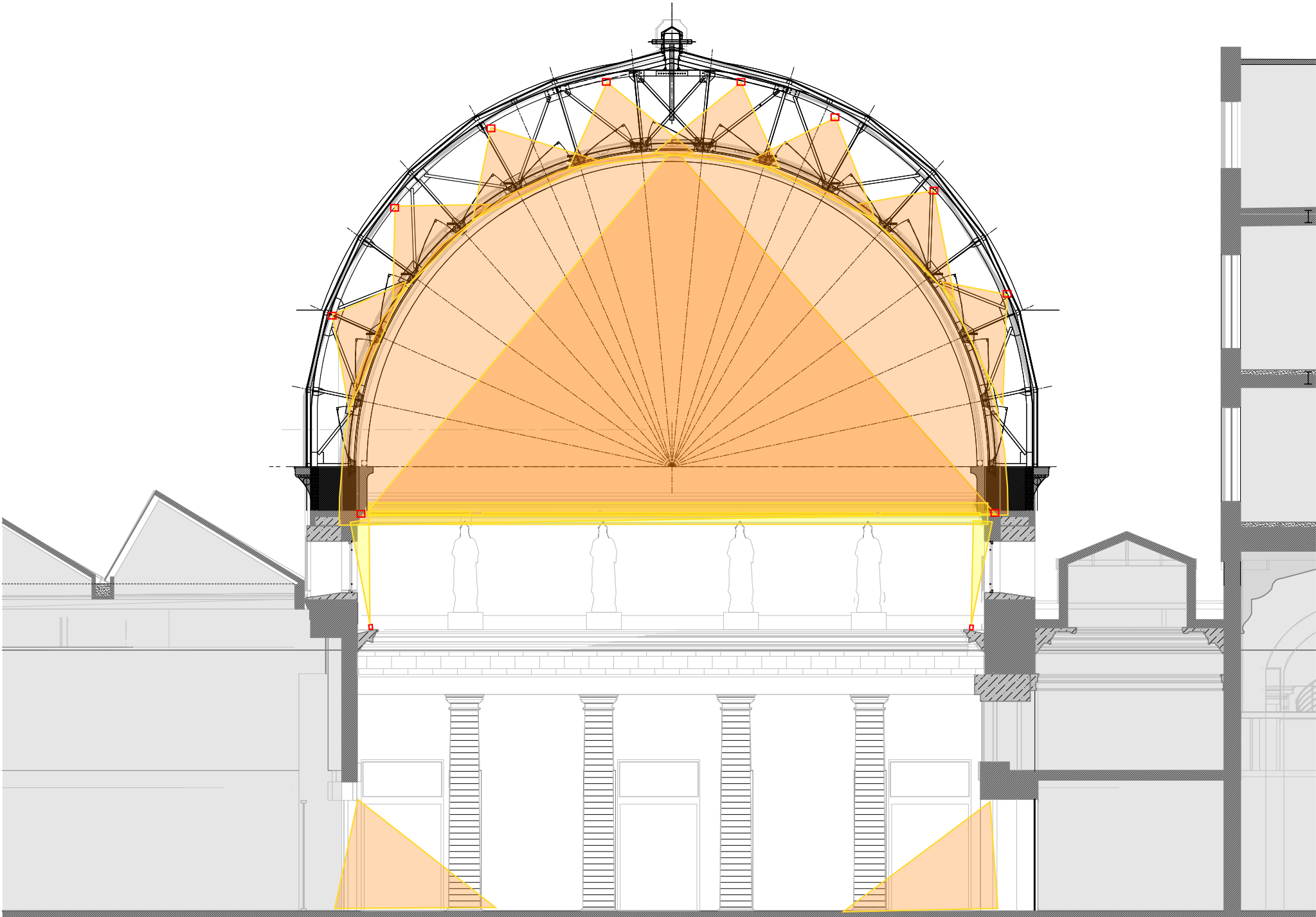
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Lighting Upgrades

September 18, 2025

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Building Section - West Hall



General Notes:
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Legend

Light from new fixtures

Light from new fixtures replacing existing modern fixtures in-situ

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Existing Condition
East Hall

Washington Union Station

Lighting Upgrades

September 18, 2025

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East Hall - Existing
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Washington Union Station

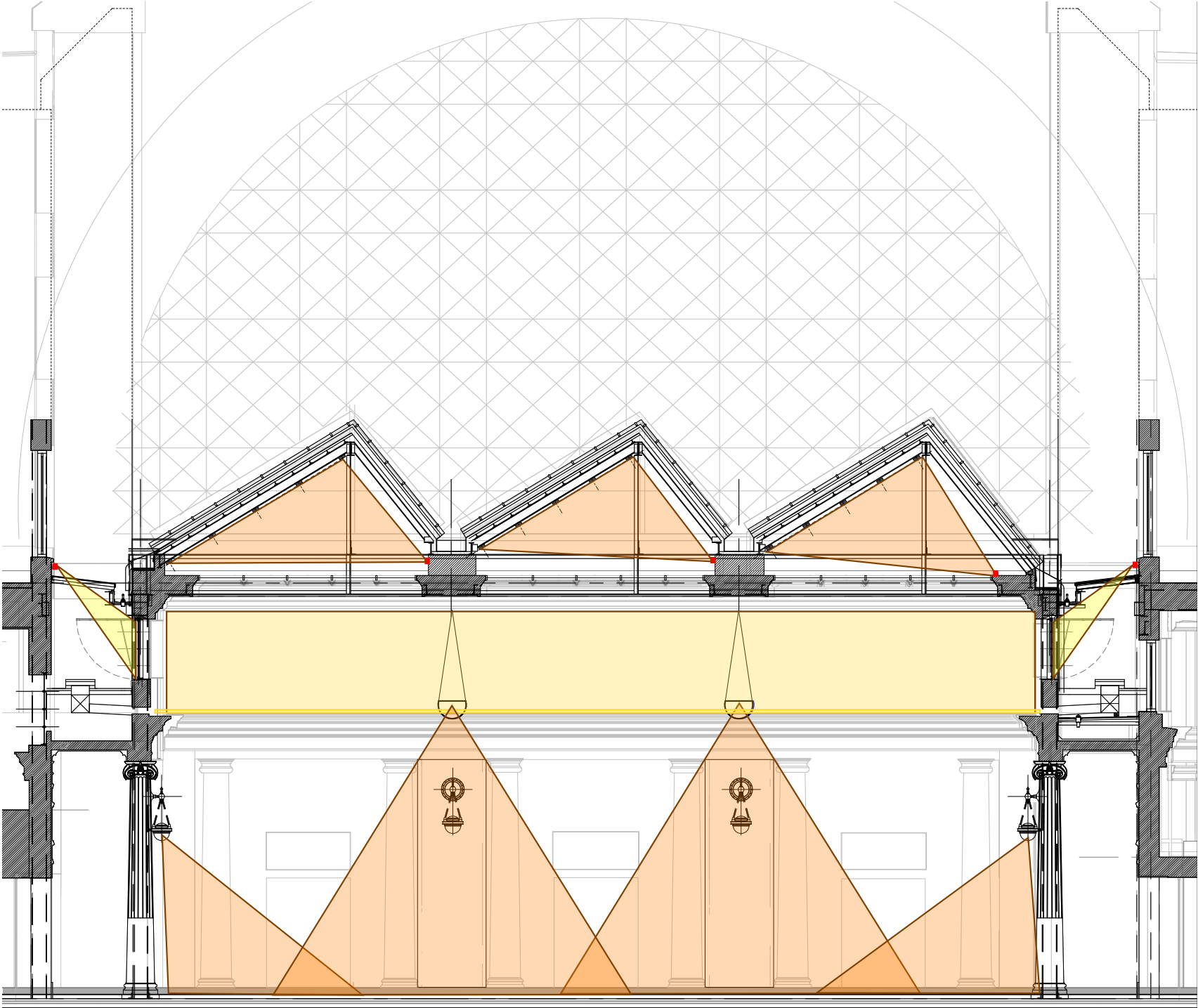
A wide-angle photograph of the interior of the Glasgow City Hall, showing a large, ornate hall with a high, coffered ceiling, multiple hanging lanterns, and a series of columns supporting the structure. The floor is polished and reflective.

Existing Condition Photo

Proposed Lighting Design

502

Building Section - East Hall



General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics

Legend

Light from new fixtures

Light from new fixtures replacing existing modern fixtures in-situ **or** Light from existing historic fixtures with new optics

Washington
Union Station

Lighting Upgrades

September 18, 2025

OWNER
 Union Station
REDEVELOPMENT CORPORATION

ARCHITECT
 ANTUNOVICH
ASSOCIATES
ARCHITECTURE PLANNING INTERIOR DESIGN

LIGHTING DESIGNER
CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER
 mcmullan
CONSULTING ENGINEERS

MEP & FP ENGINEERS
CHT

CIVIL ENGINEER
 AMT
LLC
PROFESSIONAL ENGINEERS & LAND SURVEYORS

Submissions
9/04/2025 - HPO Submission
9/04/2025 - CFA Submission
9/05/2025 - NCPC Submission
9/18/2025 - CFA Presentation

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Lighting Section -
East Hall

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Existing Condition
Retail Concourse

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<div>ARCHITECT</div> <div> ANTUNOVICH ASSOCIATES ARCHITECTURE PLANNING INTERIOR DESIGN</div>
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Proposed Lighting Upgrades
Retail Concourse

Washington Union Station

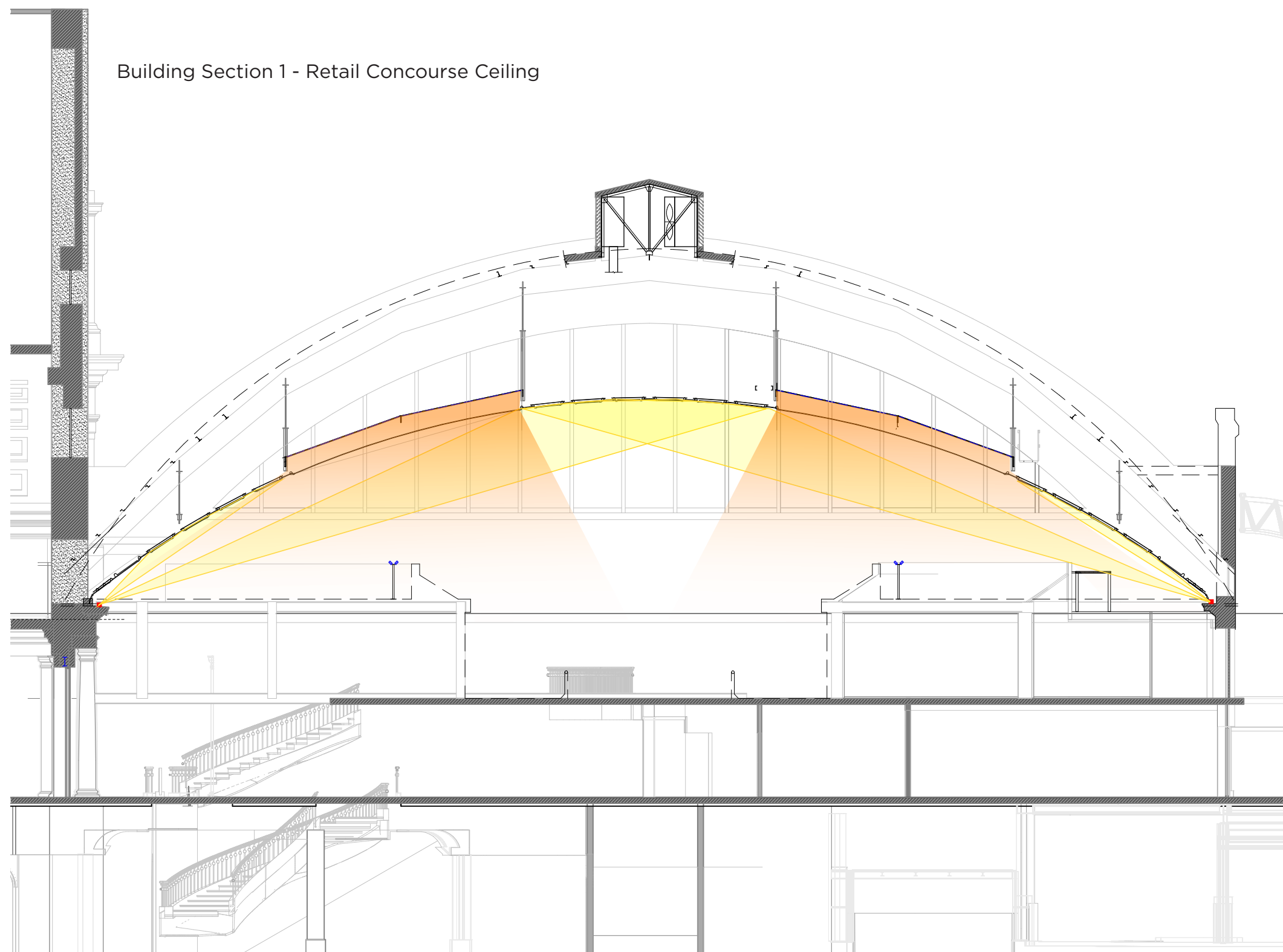
Lighting Upgrades

September 18, 2025

OWNER
 Union Station REDEVELOPMENT CORPORATION
ARCHITECT
 ANTUNOVICH ASSOCIATES ARCHITECTURE PLANNING INTERIOR DESIGN
LIGHTING DESIGNER
CLAUDE R. ENGLE LIGHTING CONSULTANT
STRUCTURAL ENGINEER
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Retail Concourse - Proposed Rendering
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A wide-angle photograph of the interior of Grand Central Terminal. The image captures the vast, vaulted glass and steel roof that allows natural light to flood the space. In the foreground, a curved walkway with a dark, ornate metal railing and a wooden handrail leads the eye into the atrium. The floor is highly polished, reflecting the light from the ceiling. Several people are seen walking through the space, providing a sense of scale. In the background, the iconic arched entrance to the main concourse is visible, along with other architectural details like the hexagonal skylight patterns on the left.

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Building Section 1 - Retail Concourse Ceiling

General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

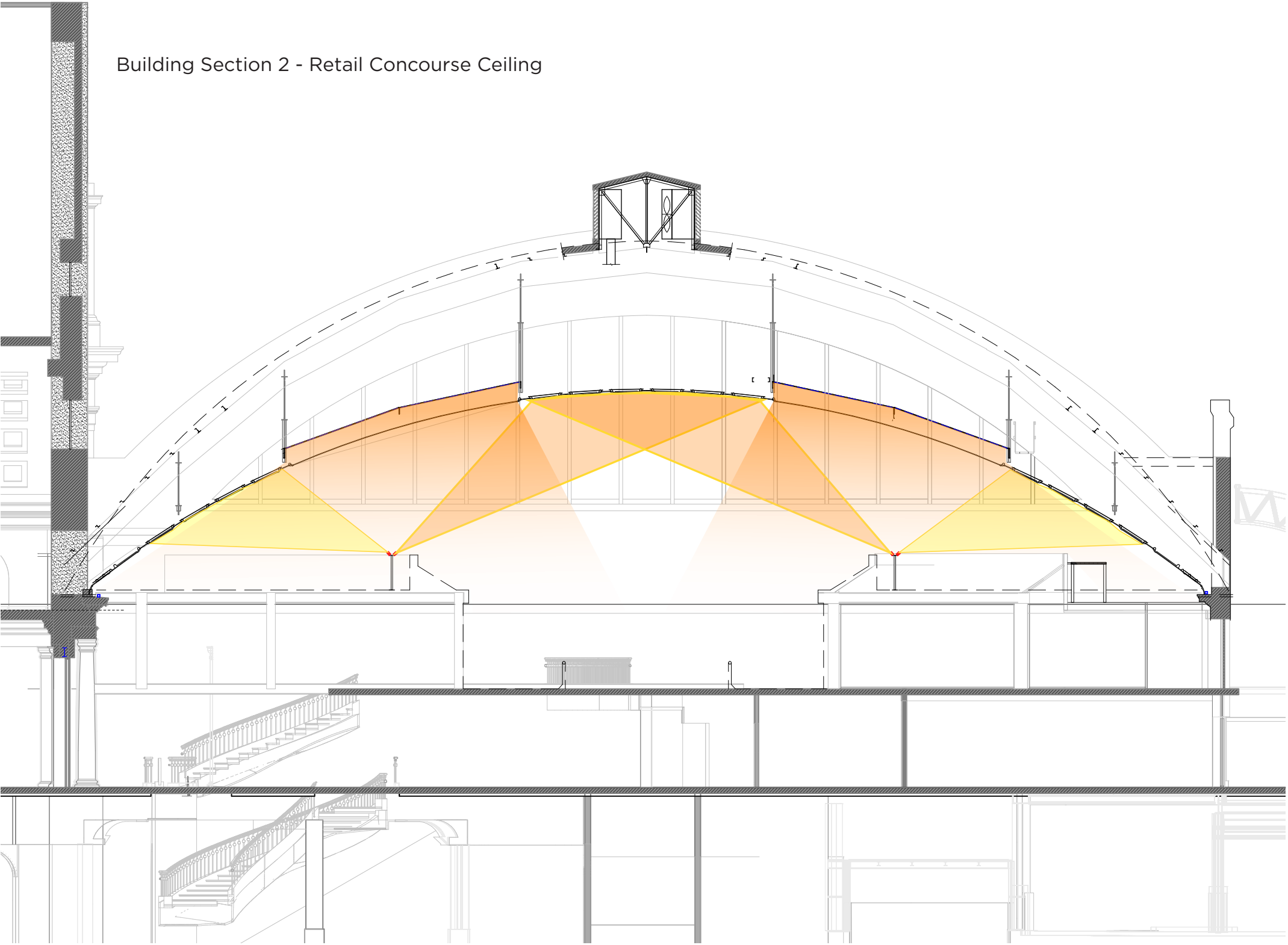
Lighting illustrated in this section is all locations where the original cornice at the spring point of the barrel vault is exposed.

Legend

Light from new fixtures

Light from new fixtures replacing existing modern fixtures in-situ

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LIGHTING DESIGNER <div>CLAUDE R. ENGLE LIGHTING CONSULTANT</div>
STRUCTURAL ENGINEER <div>mcmullan CONSULTING ENGINEERS</div>
MEP & FP ENGINEERS <div>CHT</div>
CIVIL ENGINEER <div>AMT LLC PROFESSIONAL ENGINEERS & SURVEYORS</div>
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Building Section 2 - Retail Concourse Ceiling






General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Lighting illustrated in this section is all locations where the 2nd level retail obscures the original cornice and spring point of the barrel vault.

Legend

Light from new fixtures

Light from new fixtures replacing existing modern fixtures in-situ

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Lighting Upgrades
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 mcmullan CONSULTING ENGINEERS
MEP & FP ENGINEERS
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Submissions
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Washington
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Lighting Upgrades

September 18, 2025

OWNER



ARCHITECT



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CLAUDE R. ENGLE
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STRUCTURAL ENGINEER



MEP & FP ENGINEERS



CIVIL ENGINEER



Submissions

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