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Washington Union Station

Lighting Upgrades



Union Station
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National Capital Planning Commission
Preliminary Review

September 5, 2025

Lighting Upgrades



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 **mcmullan**
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8/29/2025 - HPO

Lighting Scope

001

Intent:

- Increase lighting levels to meet national standards 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.

Intent:

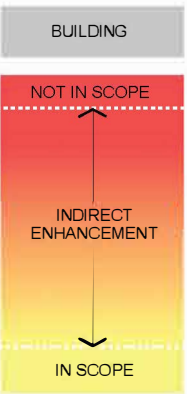
- Reduce light emission into the night sky
- Accentuate the existing historic quality of the station
- To match the color/temperature of the lighting within Columbus Circle with the surrounding streetlights

Scope Overview:

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

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

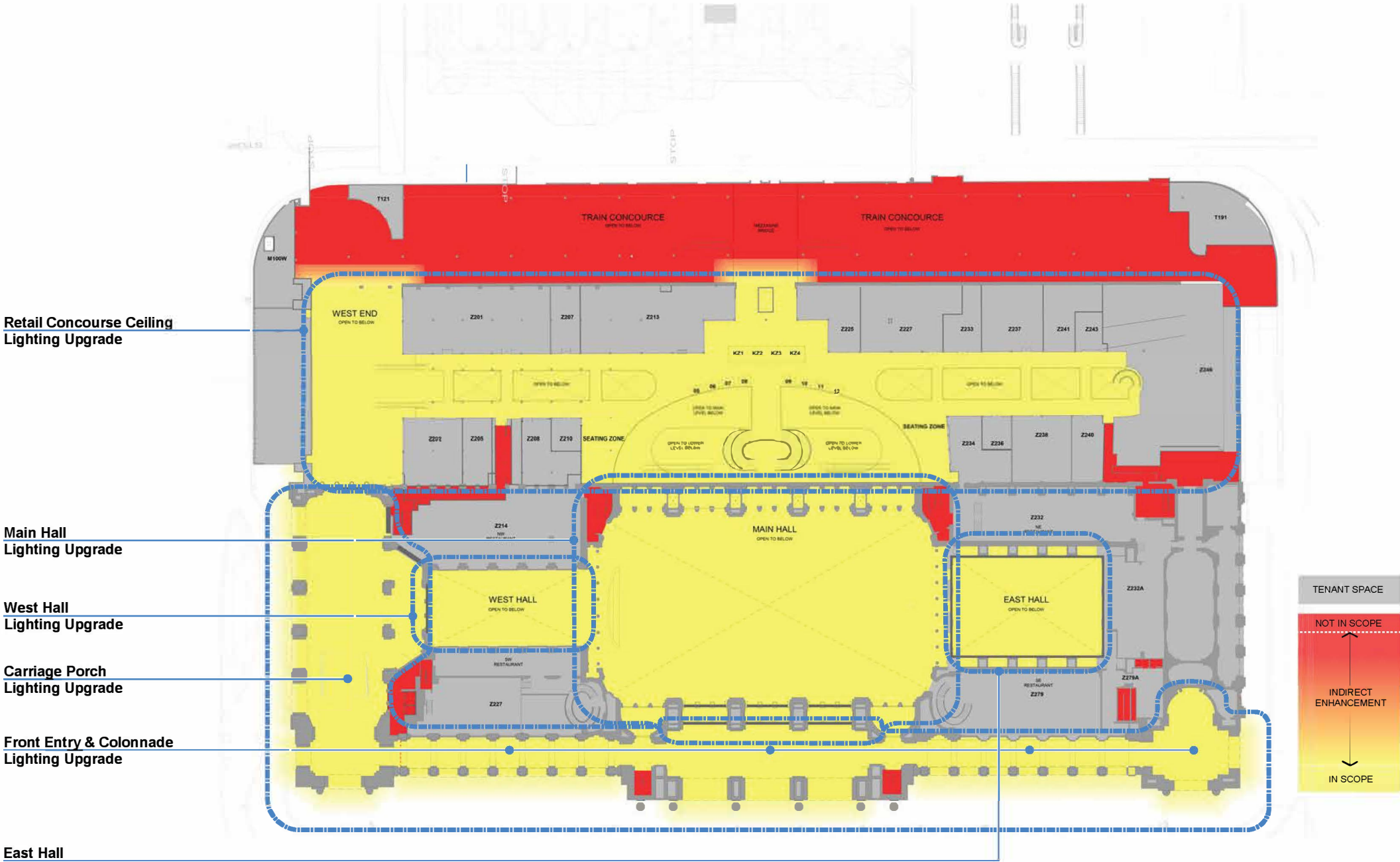
Site Plan



002

- 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.

Ground Level Plan



Retail Concourse Ceiling
Lighting Upgrade

Main Hall
Lighting Upgrade

West Hall
Lighting Upgrade

Carriage Porch
Lighting Upgrade

Front Entry & Colonnade
Lighting Upgrade

East Hall
Lighting Upgrade

Mezzanine Level Plan

West Hall

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

- Scope Overview:
- Replace linear lighting within glass skylight
 - Replace linear LEDs along cornice to light ceiling
 - Add linear LED's along cornice to light underside of ceiling
 - All lighting to be 3000K, dimmable and addressable.

East Hall

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

- Scope Overview:
- Replace linear lighting within sawtooth attic.
 - Replace linear LEDs along cornice to light ceiling.
 - Add linear LED's along cornice to light underside of ceiling.
 - Modernize internal optics of wall sconce and pendent fixtures.
 - All lighting to be tunable white, dimmable and addressable.

Retail Concourse

- Intent:
- Increase lighting Levels to meet security requirements.
 - Decrease glare and provide indirect lighting.
 - Reactivate existing glass laylites within plaster ceiling.

- Scope Overview:
- 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.

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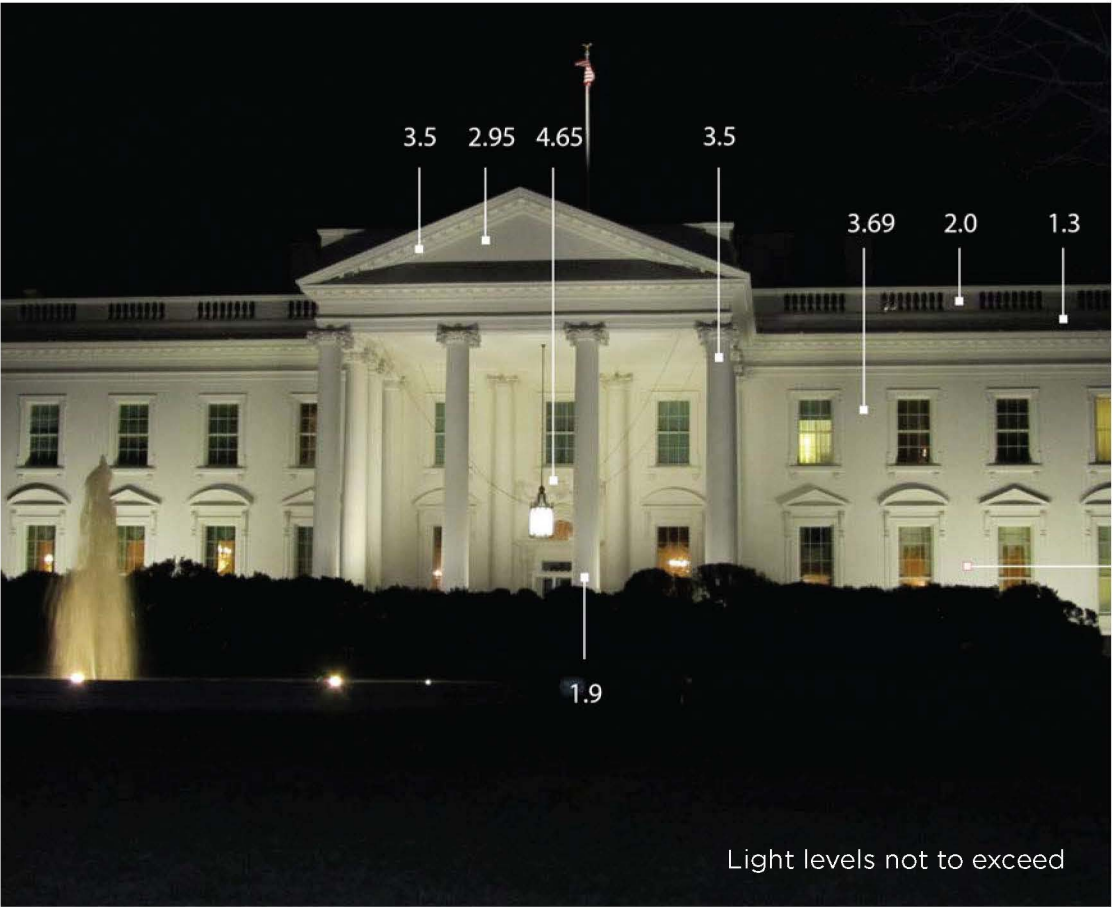
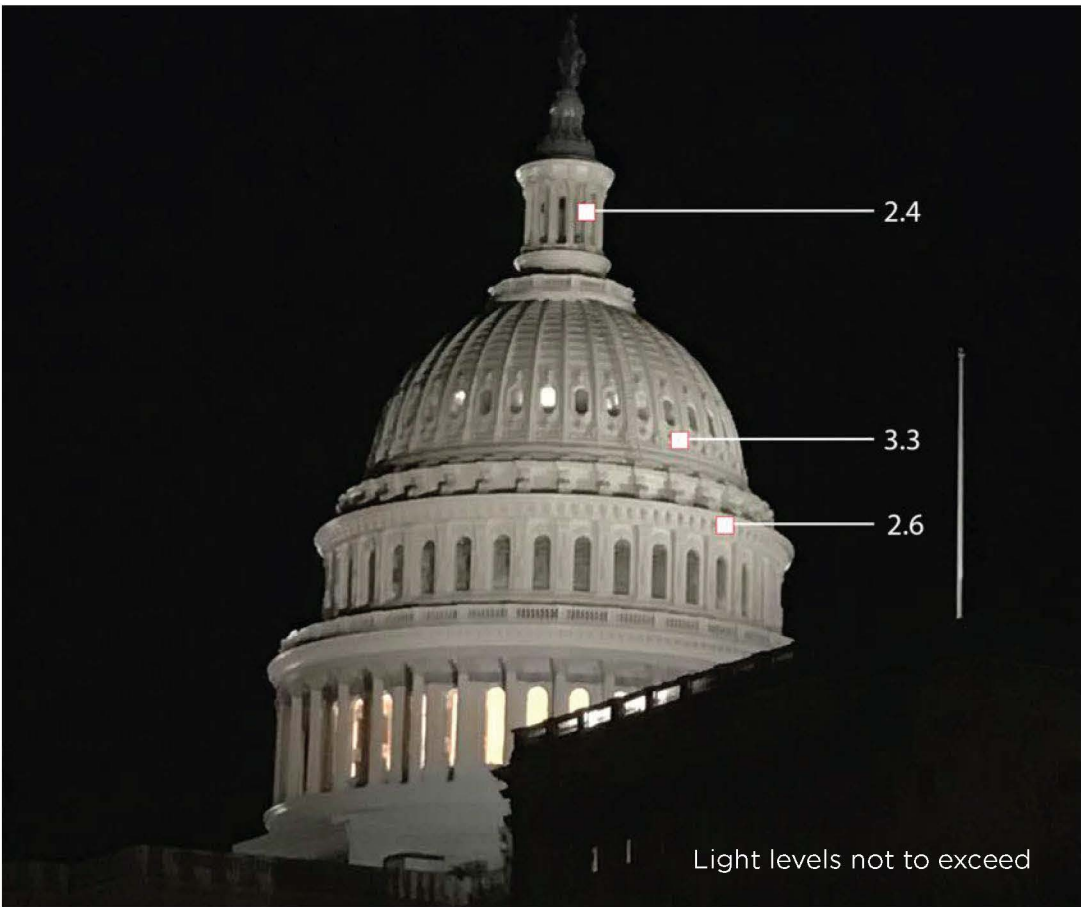
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Lighting Scope

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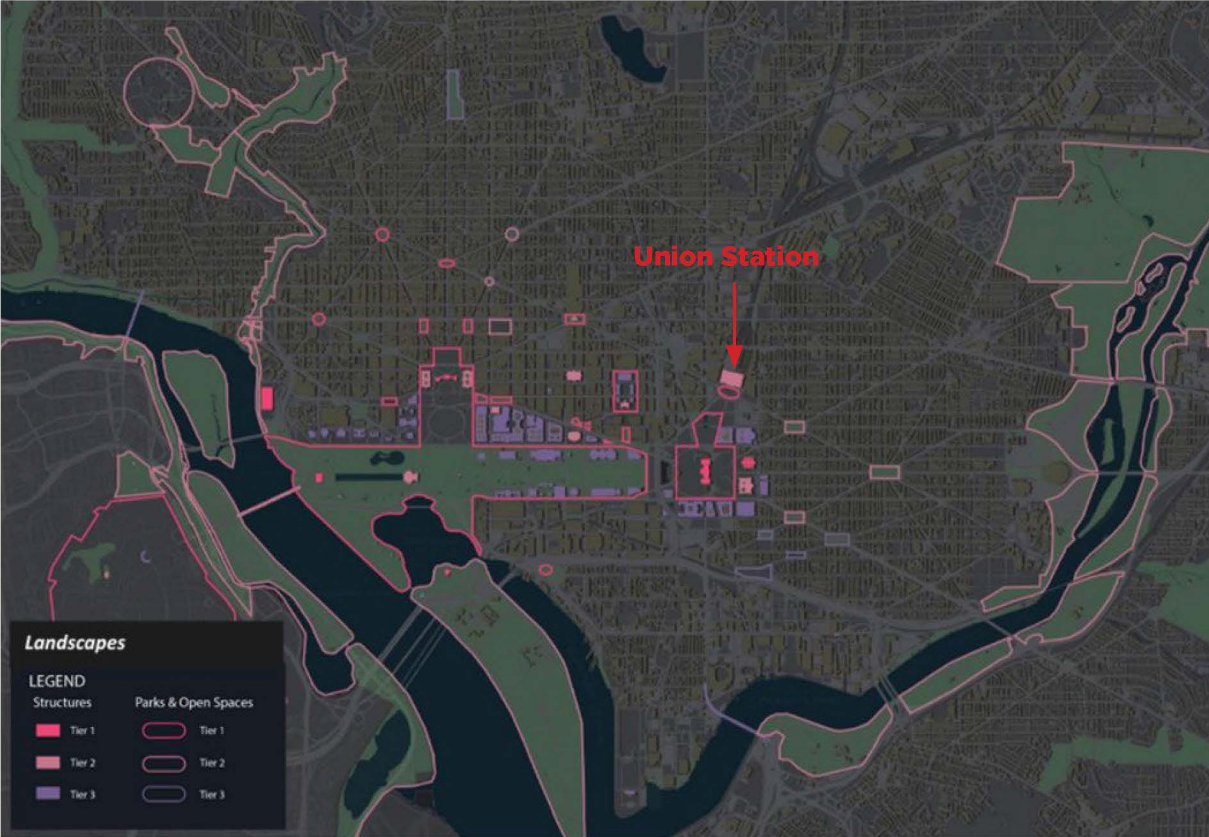
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Precedent Images

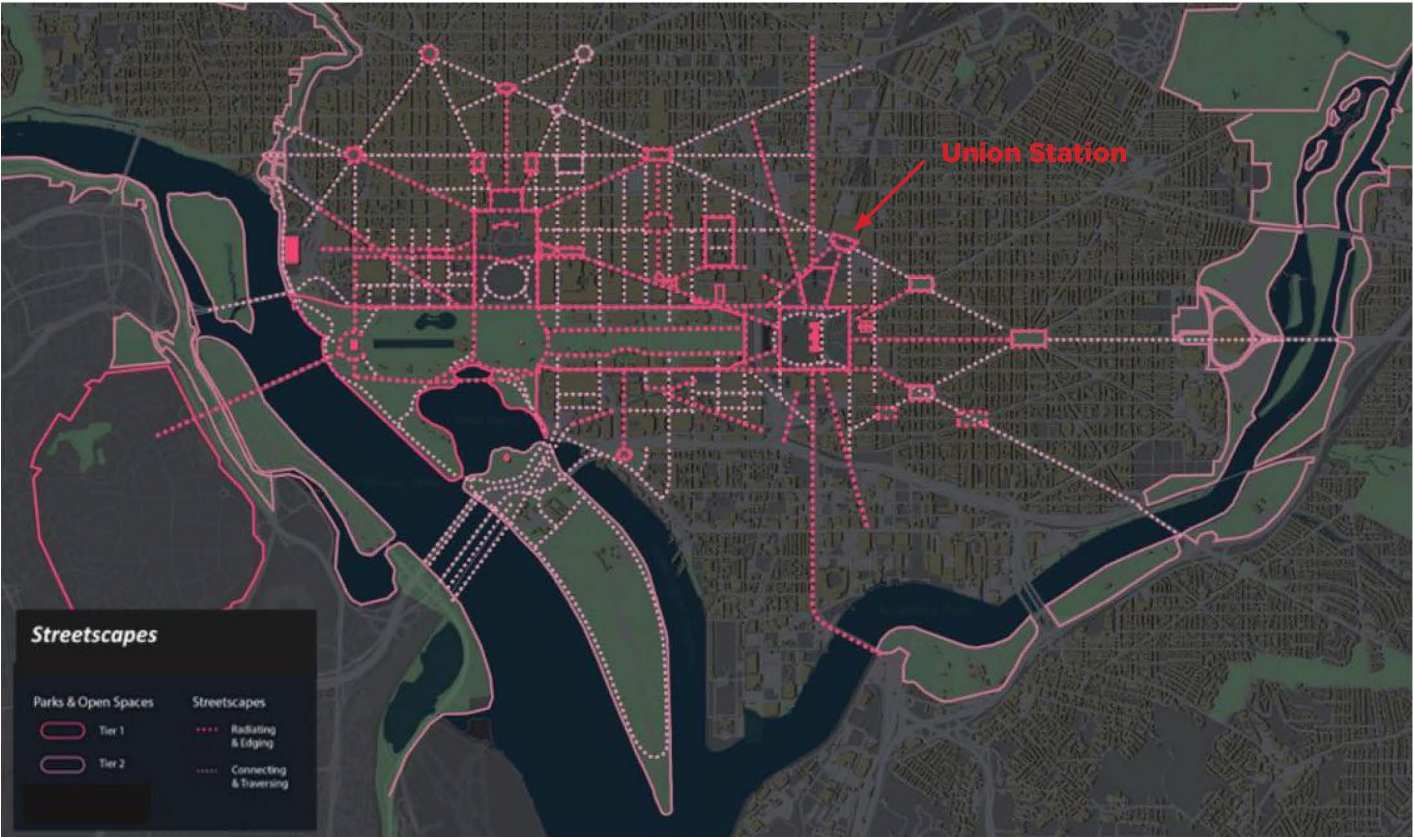
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Building - Tier 2/Urban



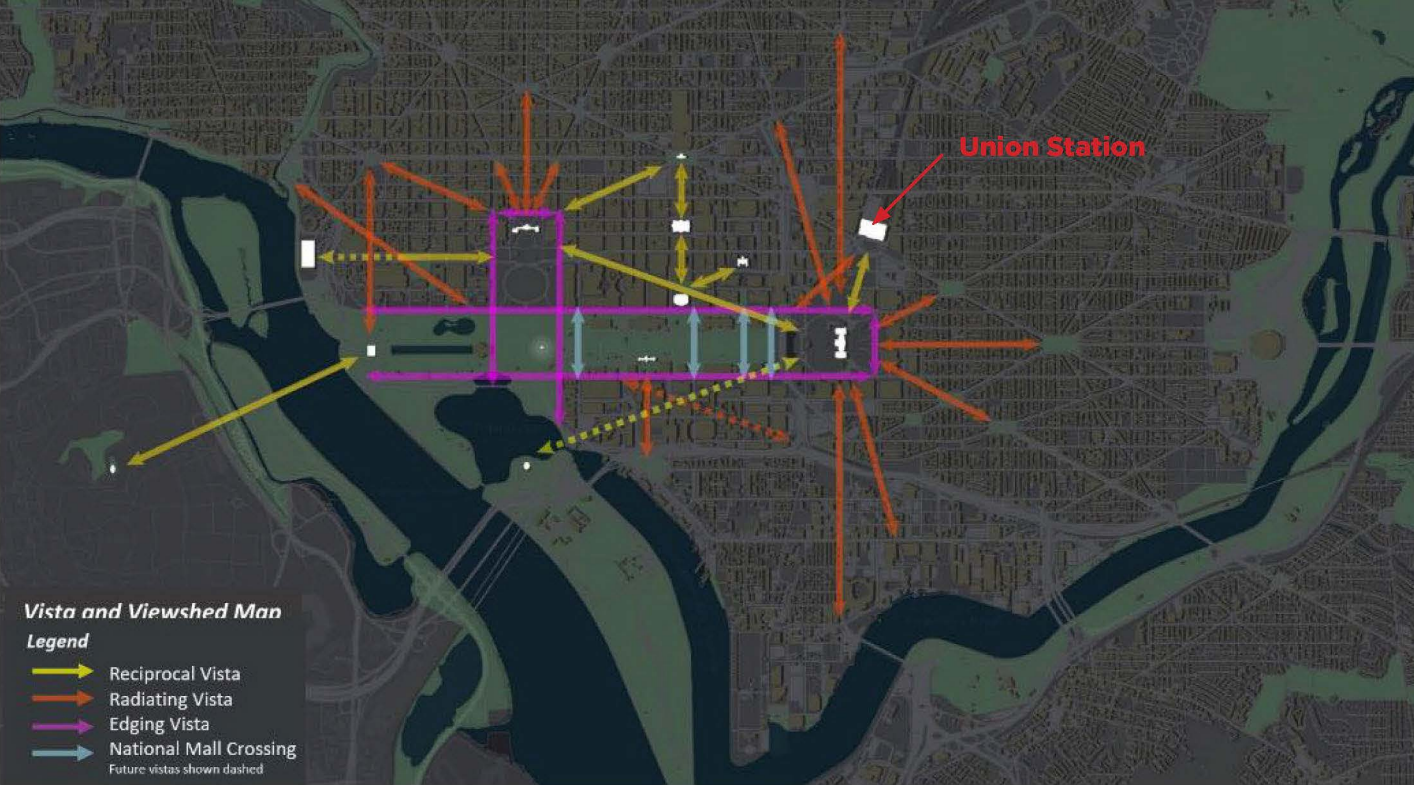
Streetscape - Tier 1/Urban



Columbus Circle - Urban



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



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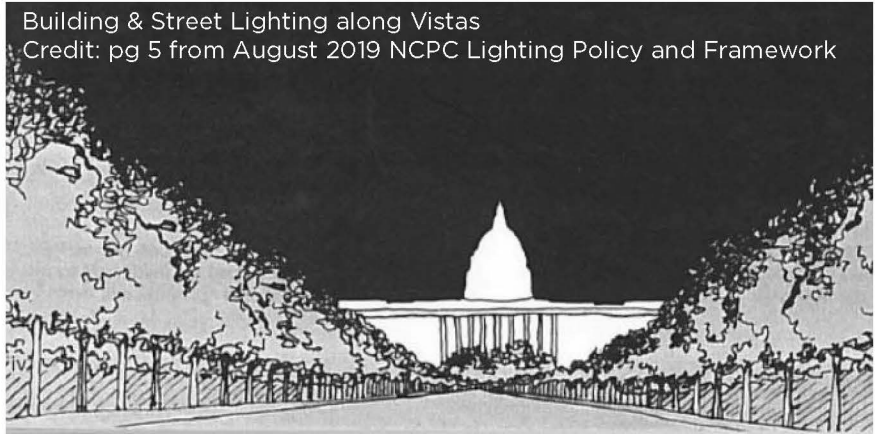
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NCPC Lighting Policy and Framework

Page Number

005



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Existing Vista

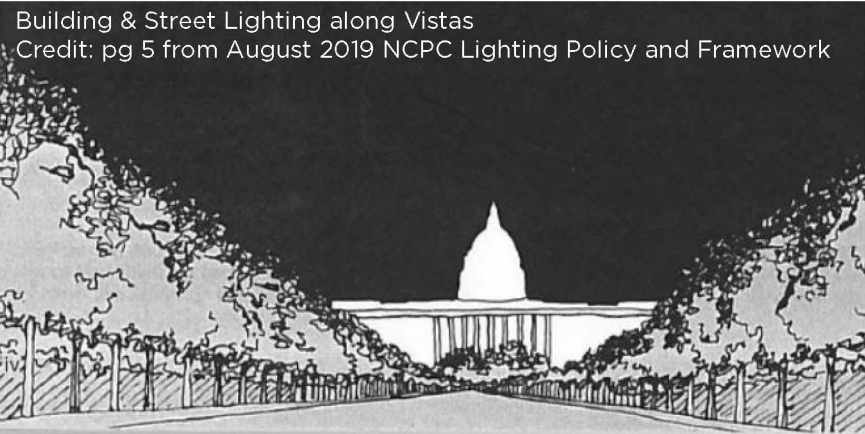
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Current Condition
View looking north on Delaware Ave



Proposed Lighting Upgrades
View looking north on Delaware Ave



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Existing & Proposed
Side by Side

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Current Condition

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Proposed Lighting Upgrades
View looking northwest on Massachusetts Ave

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Proposed Lighting
Upgrades

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Current Condition
View looking northwest on Massachusetts Ave



Existing Condition Photo

Proposed Lighting Upgrades
View looking northwest on Massachusetts Ave



Proposed Lighting Design

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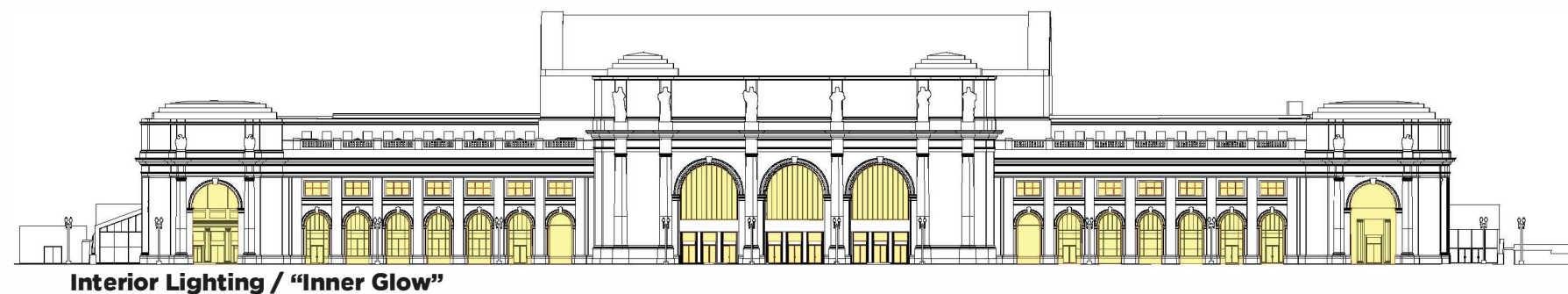
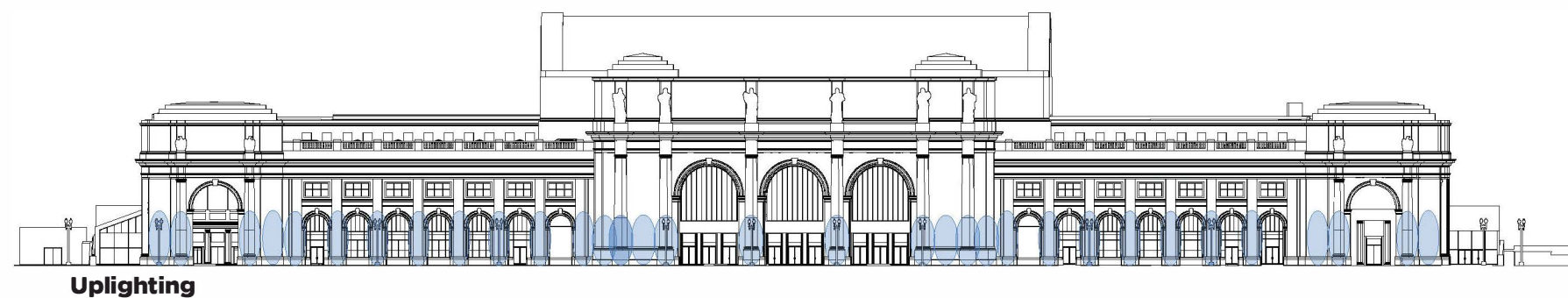
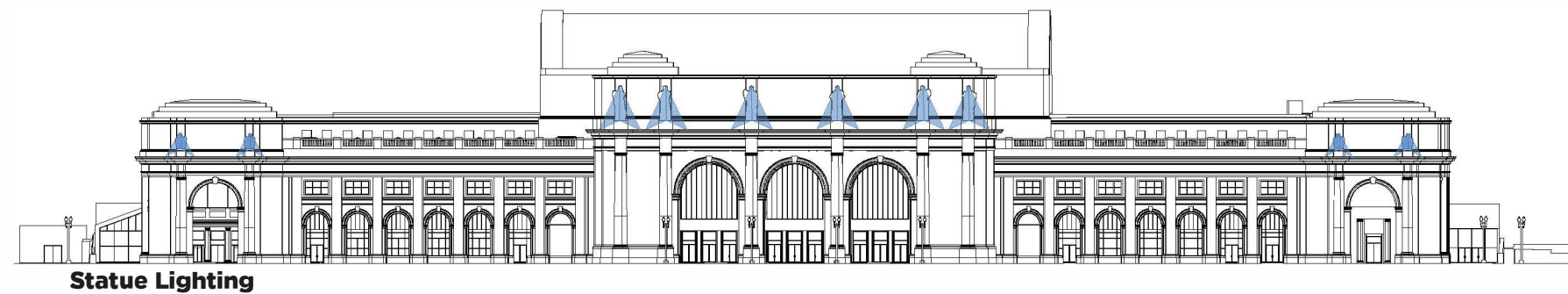
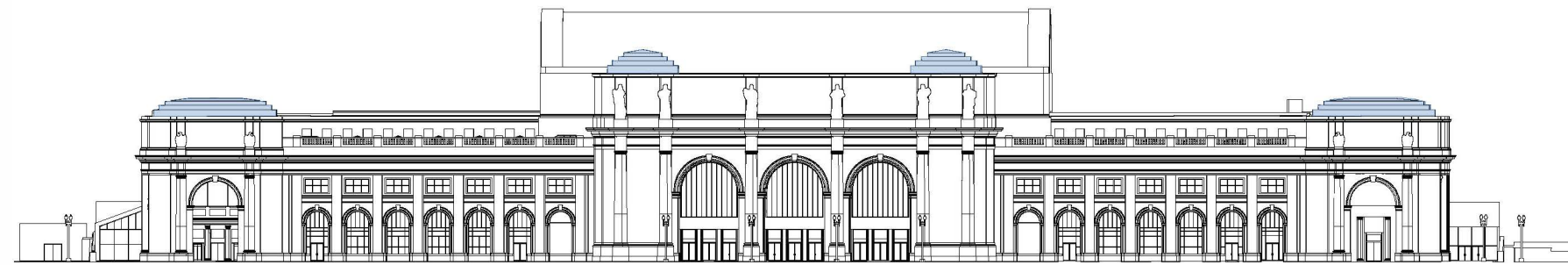
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Page Title

Existing & Proposed
Side by Side

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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

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

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Front Facade Lighting Layers - Individual Layers

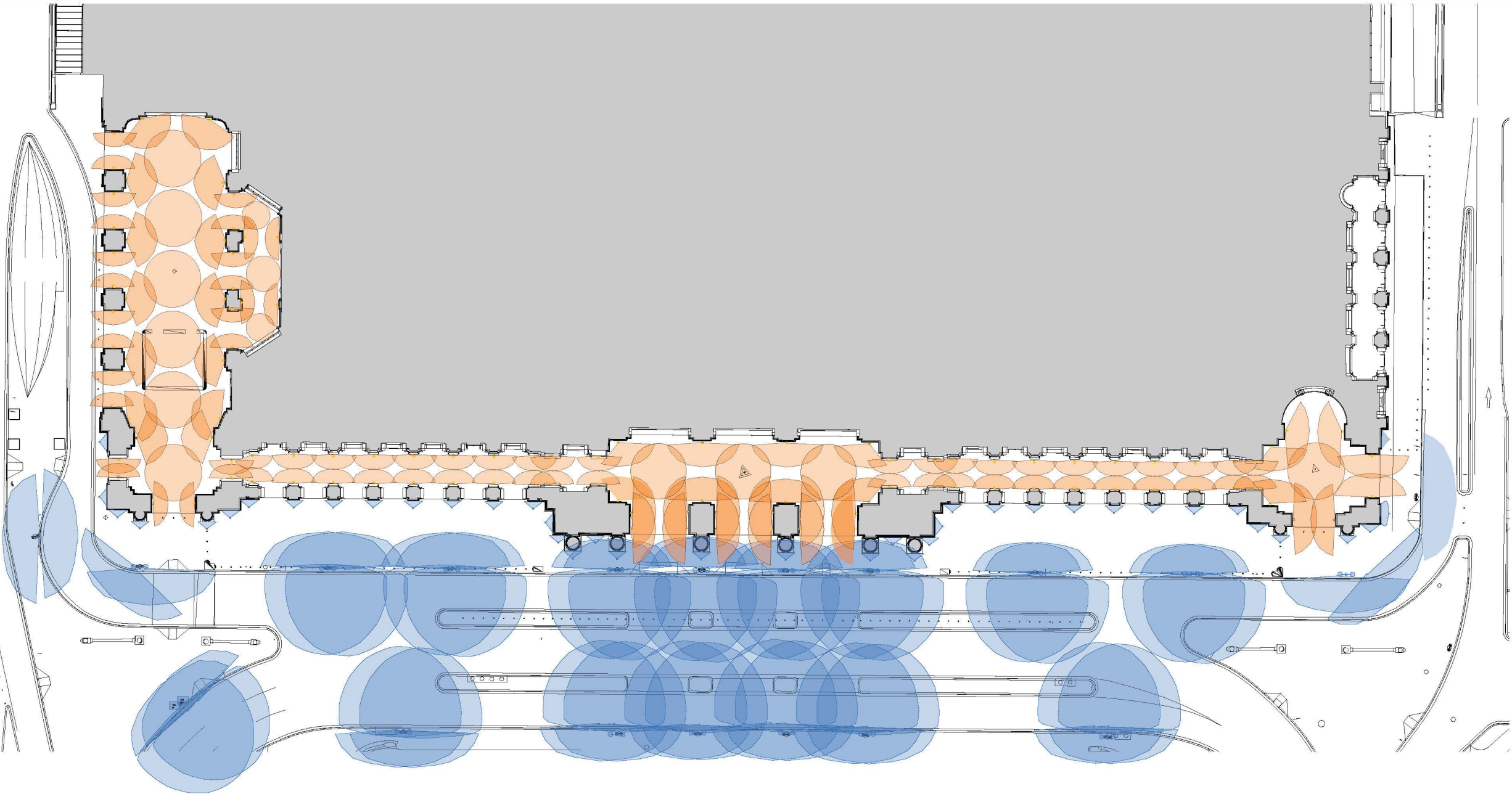
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Main Level Lighting Plan



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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Lighting Upgrades

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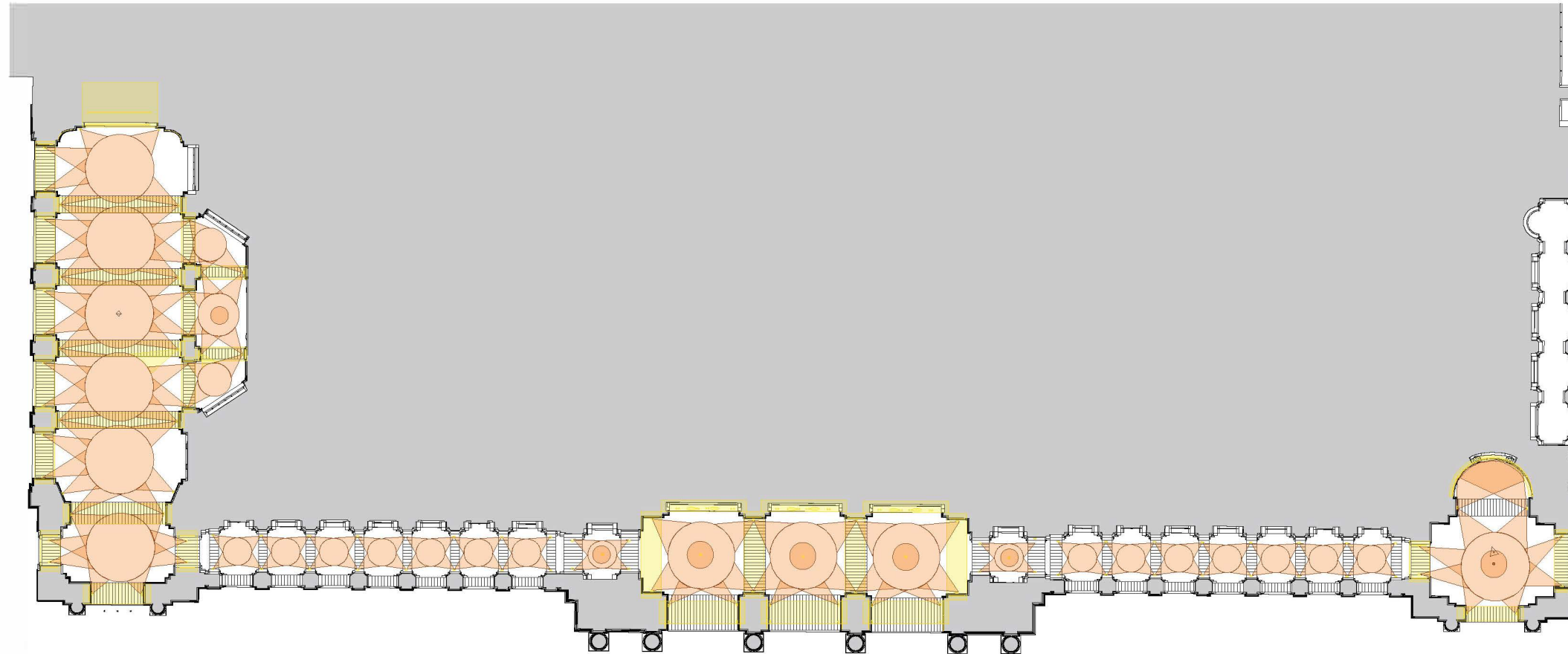
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Lighting Plan
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Main Level Lighting Reflected Ceiling Plan



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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Lighting RCP Taxiway & Colonnade

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**Main Entrance
Existing**

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Proposed Lighting Upgrades
Front Entry Portico

Washington Union Station

Lighting Upgrades

September 4, 2025

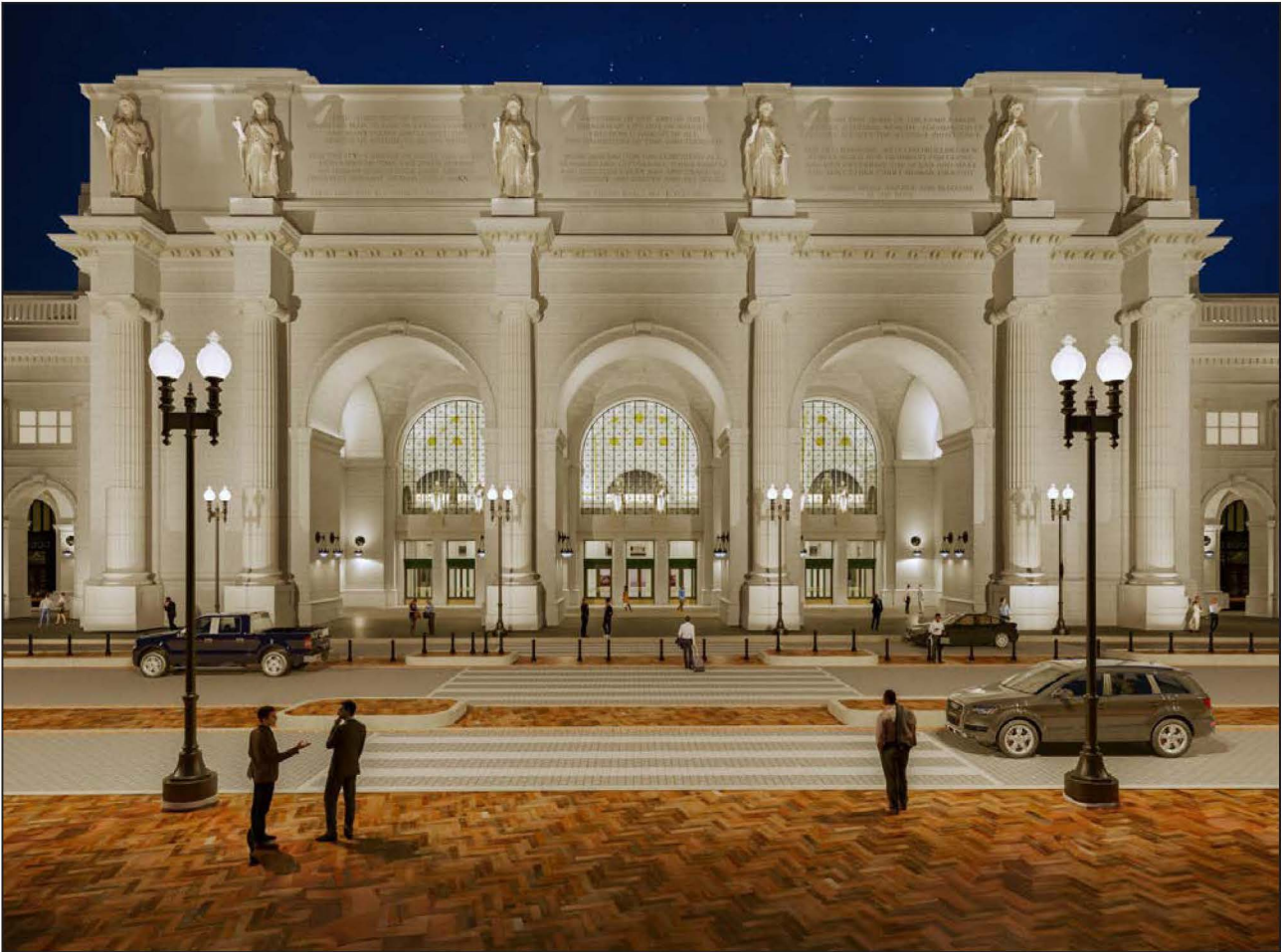
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Main Entrance Proposed Rendering
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Current Condition
Front Entry Portico



Existing Condition Photo

Proposed Lighting Upgrades
Front Entry Portico



Proposed Lighting Design

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Main Entrance
Existing &
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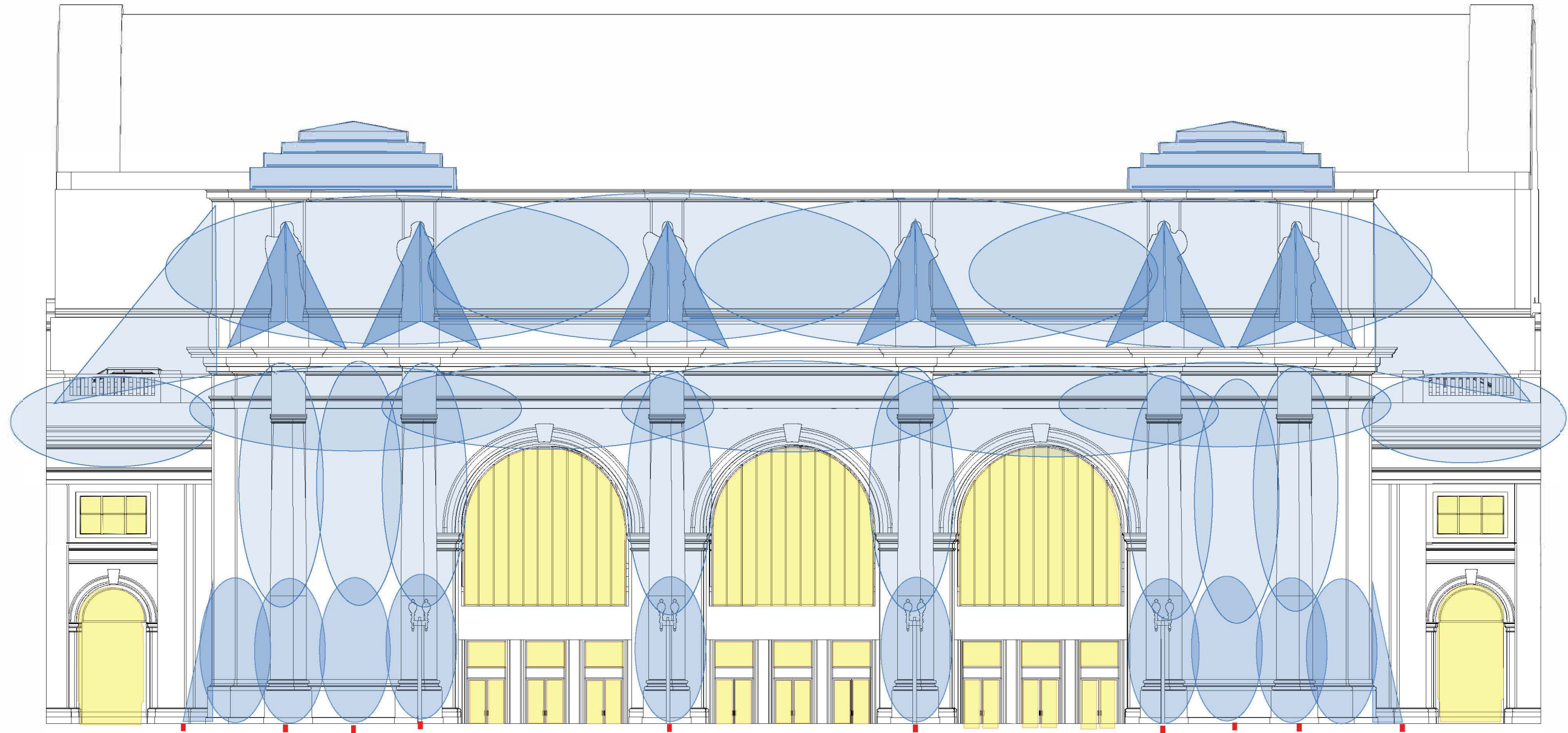
Page Title

**Partial Elevation
Main Entrance
Light Layering**

Page Number



111

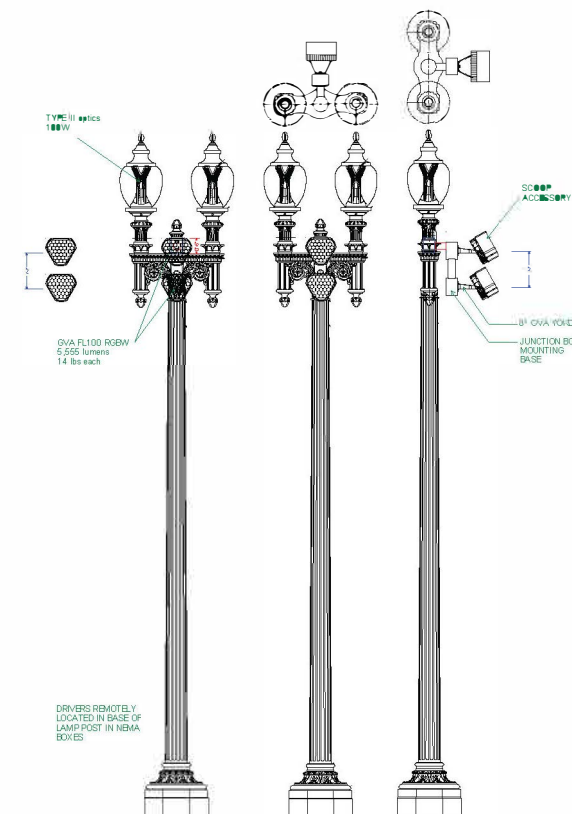
Partial South Elevation - Main Entry Portico



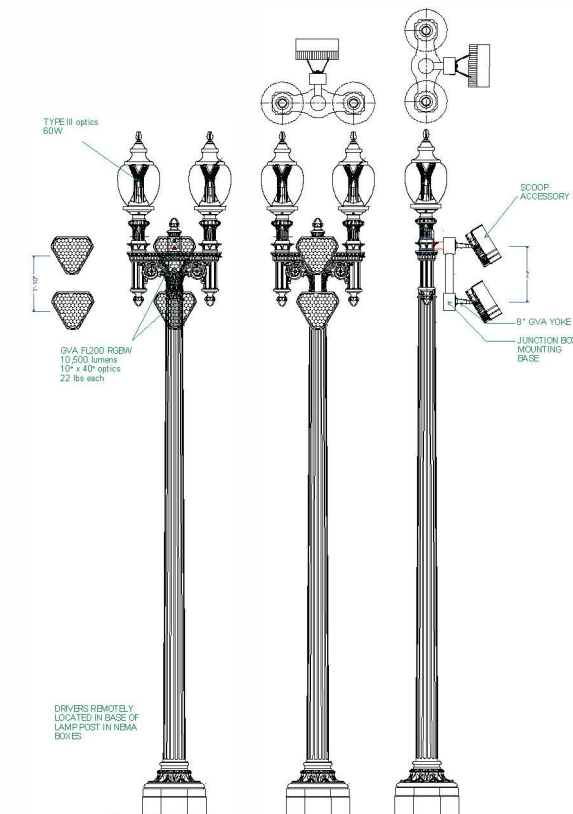
General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Legend

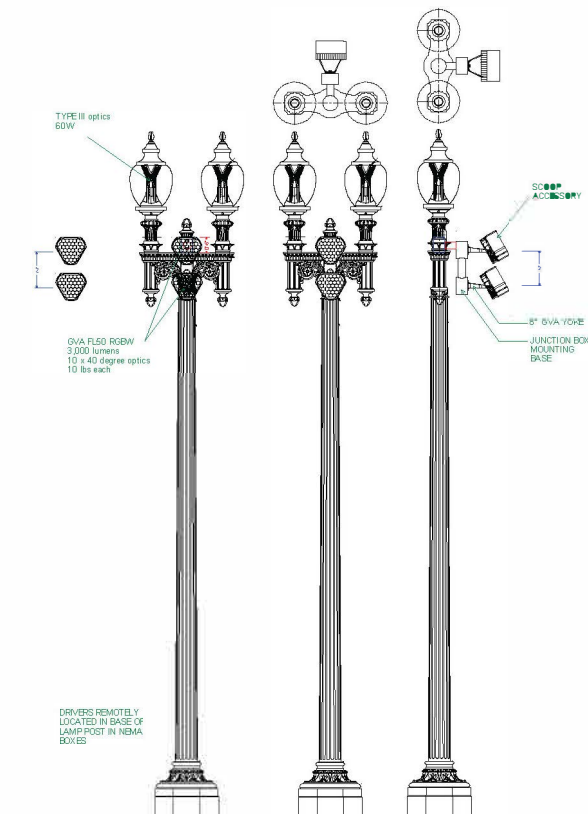
-  Light from interior visible from the exterior
-  Lighting on exterior bulding facade



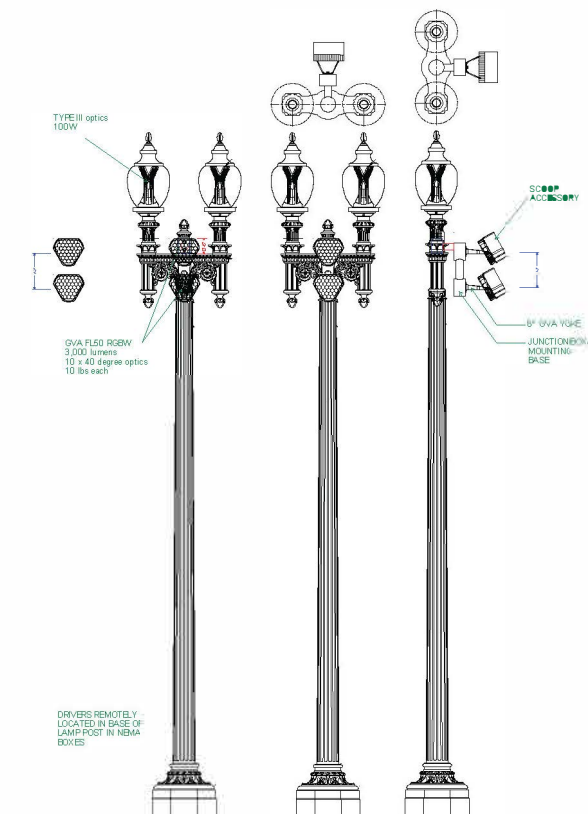
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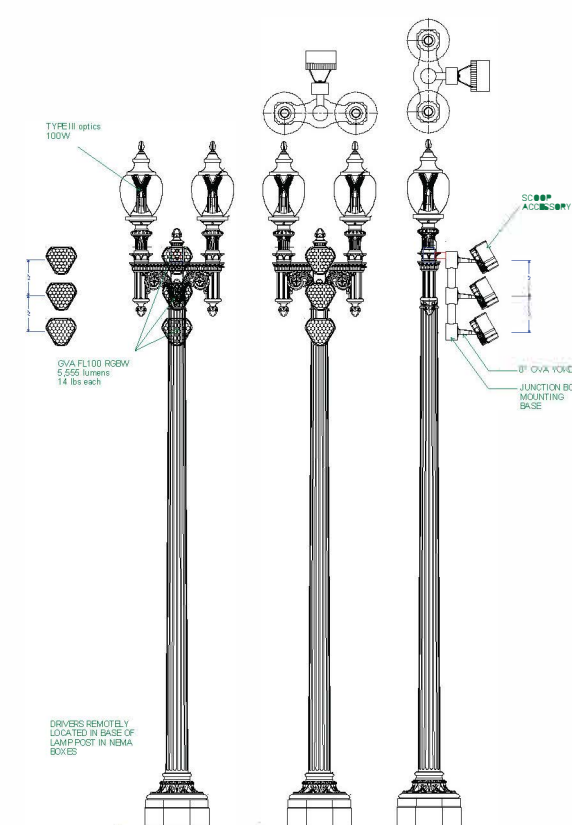
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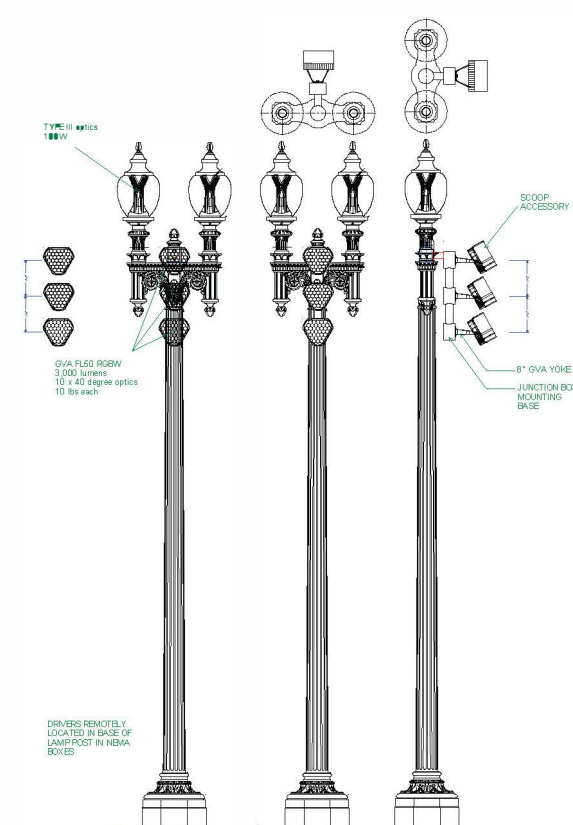
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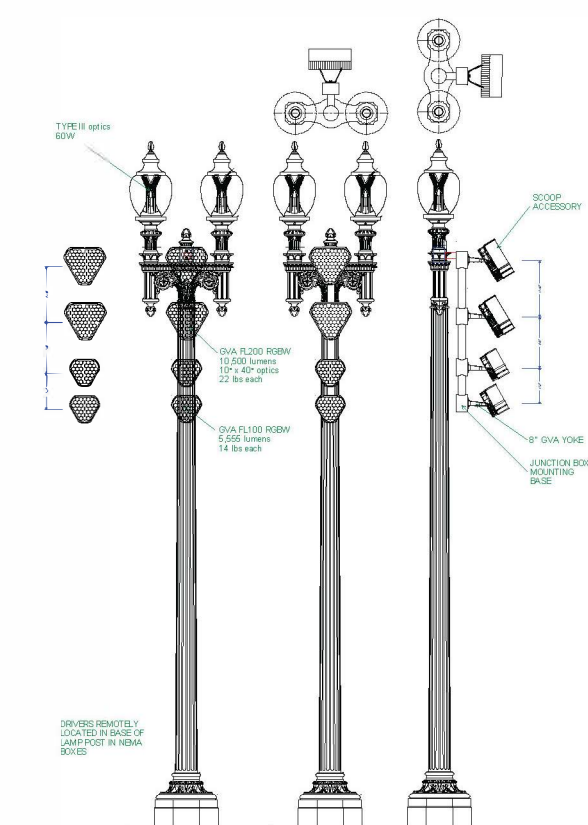
LPIV-25



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.

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Lighting Upgrades

September 4, 2025

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Facade Lighting Lamp Poles

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Proposed Lighting Upgrades
Colonnade

Washington Union Station

Lighting Upgrades

September 4, 2025

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Page Title
**Colonnade -
Proposed
Rendering**

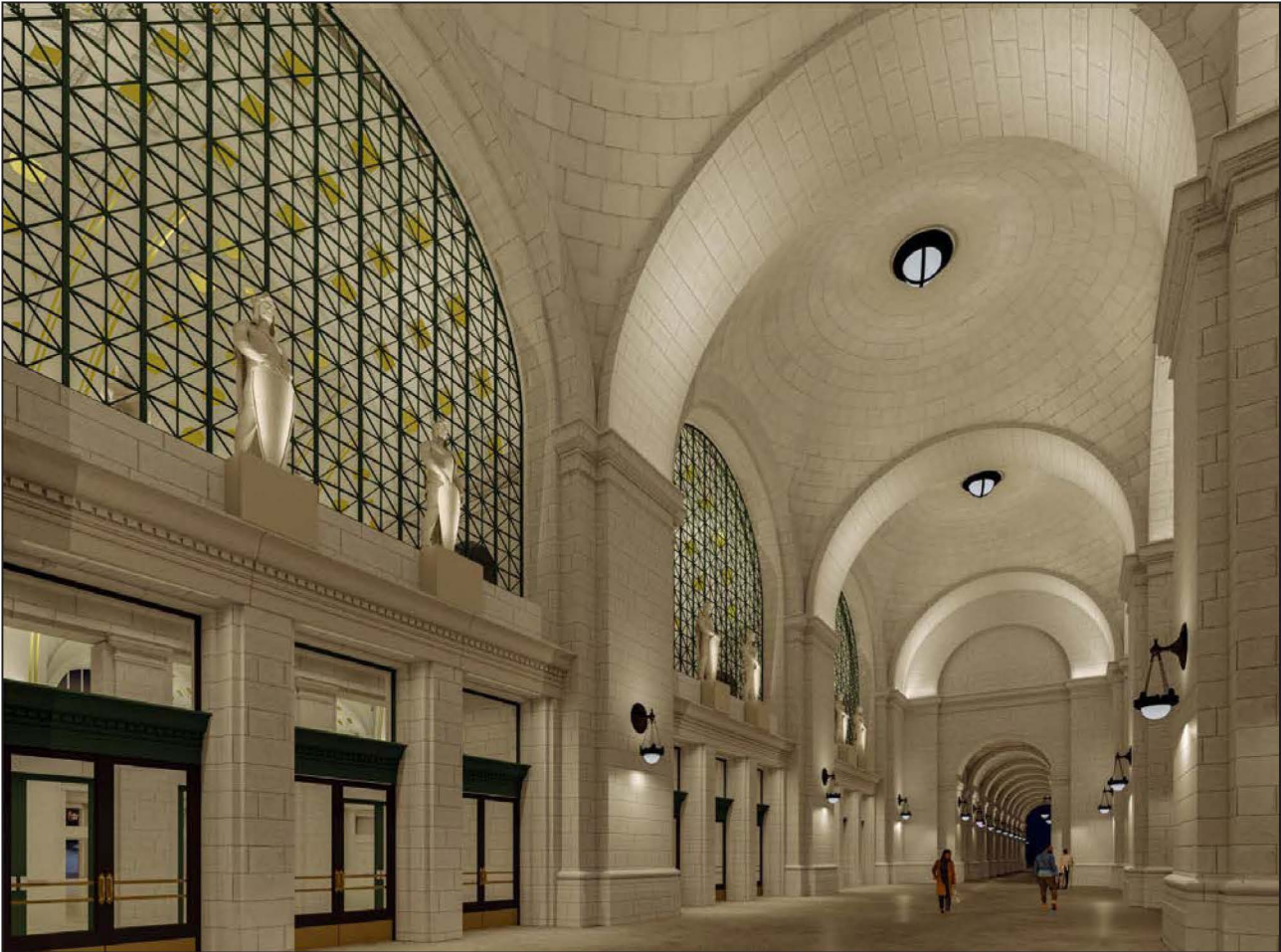
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Current Condition
Colonnade



Existing Condition Photo

Proposed Lighting Upgrades
Colonnade



Proposed Lighting Design

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Lighting Upgrades

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Colonnade -
Existing &
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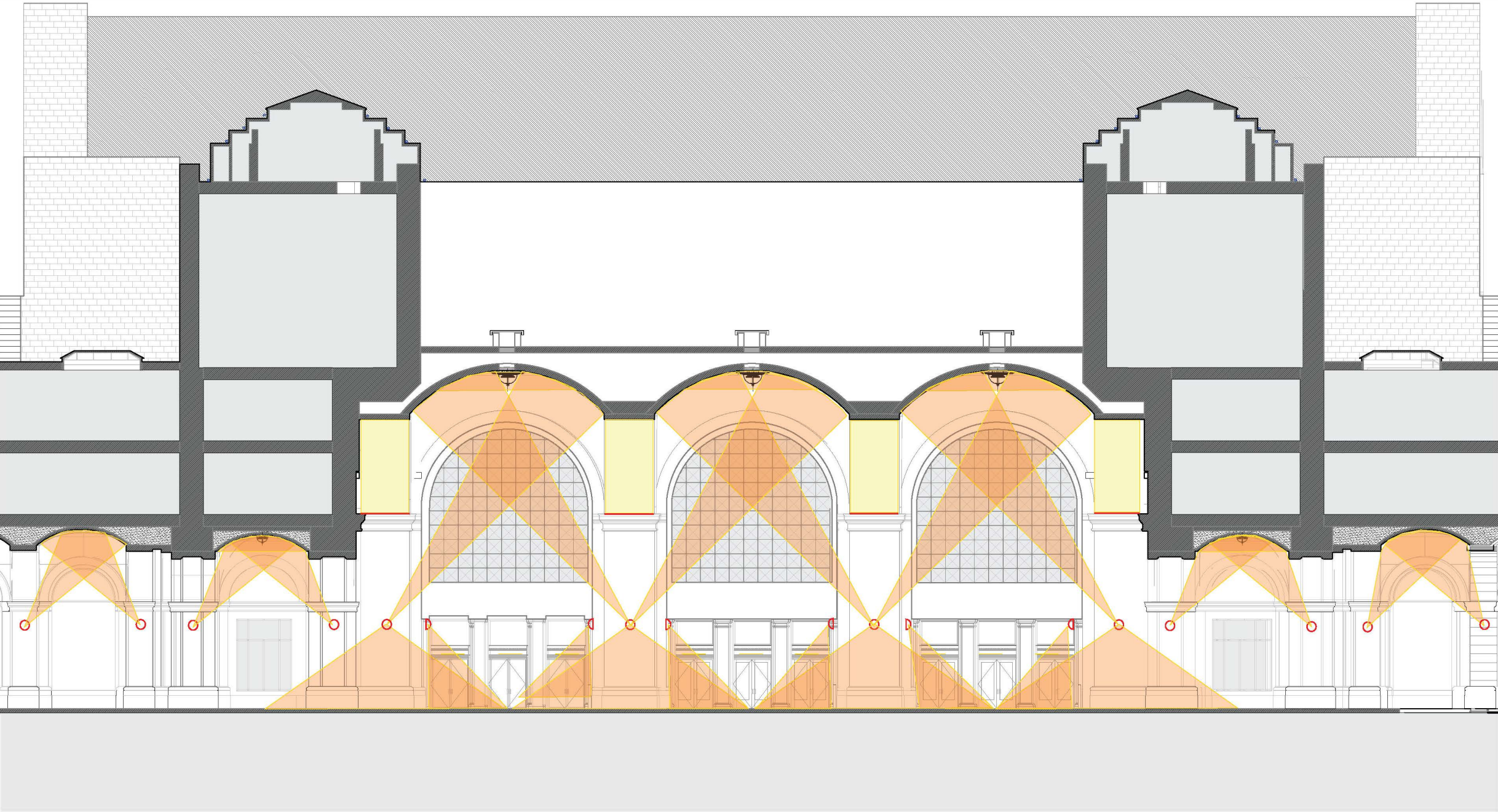
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Lighting Section -
Main Entry Portico

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Building Section - Main Entry Portico

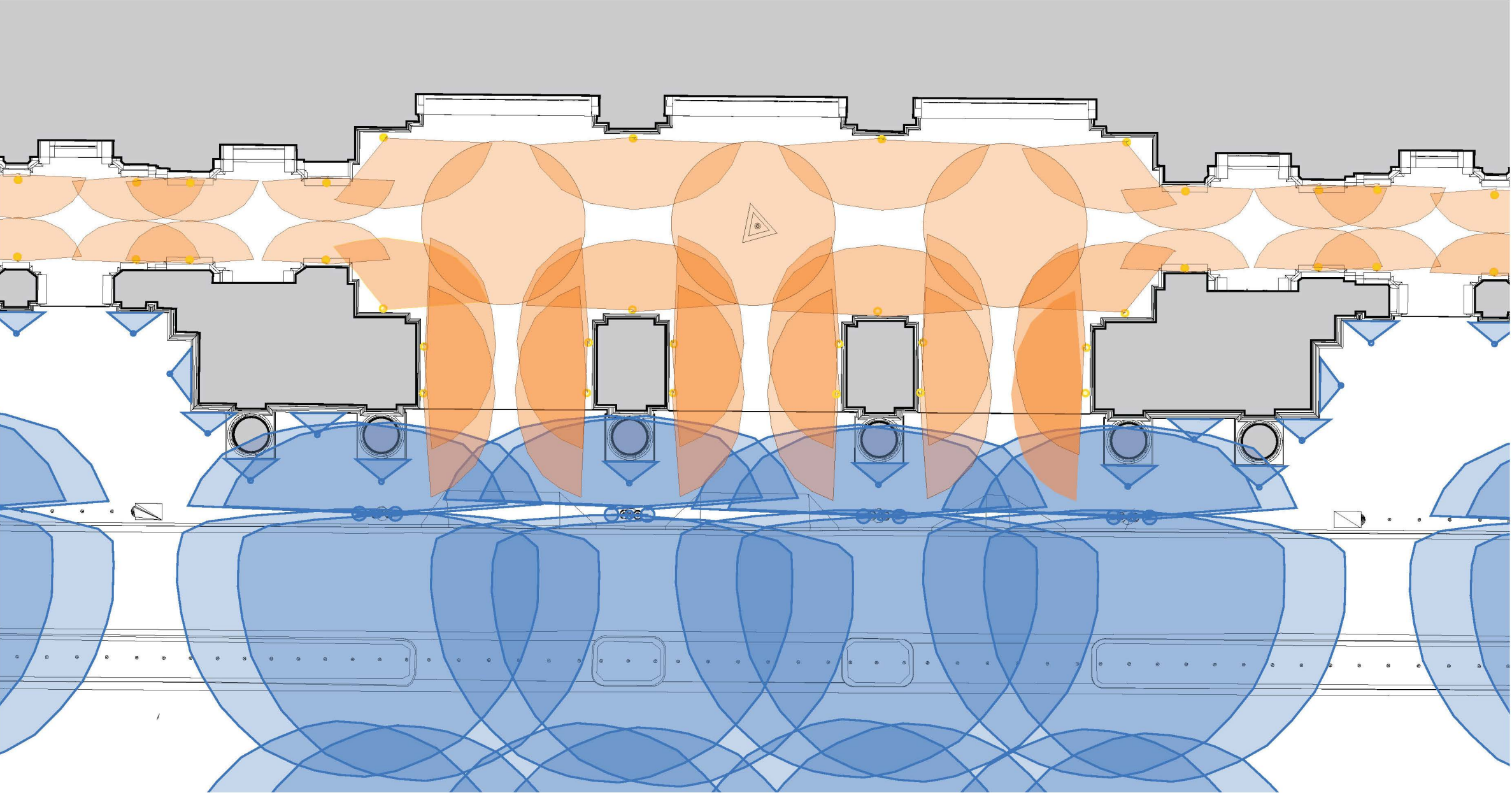


General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

Legend



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

Partial Floor Plan - Main Entry Portico Lighting

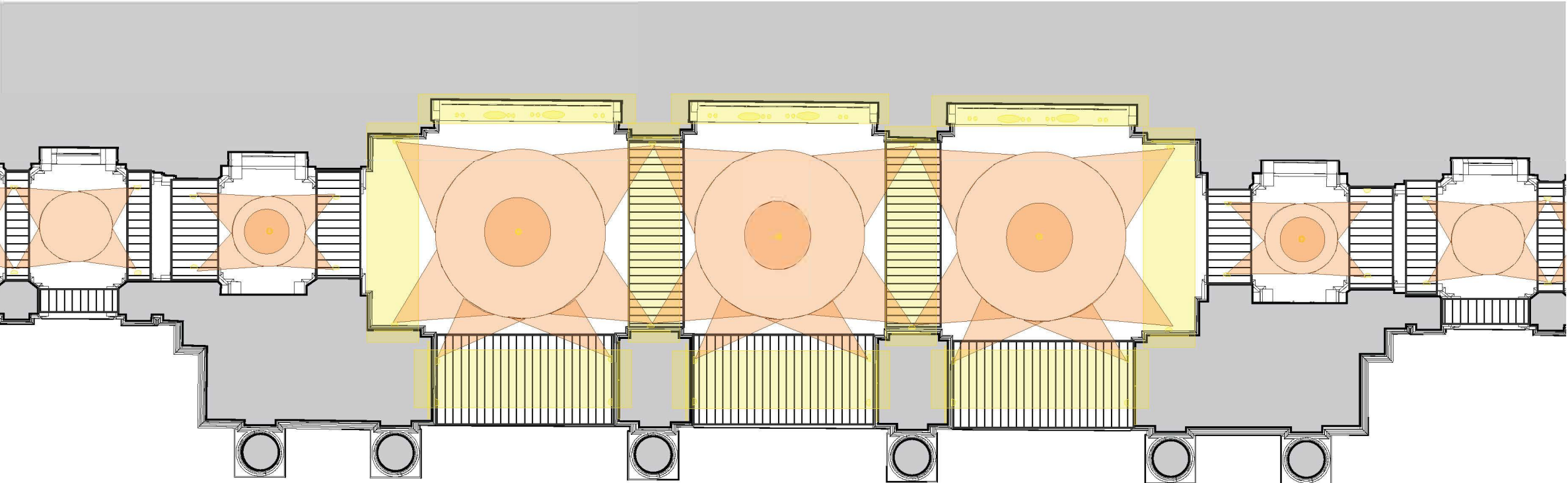


General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics.

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








Proposed Lighting Upgrades
Carriage Porch

Washington
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Lighting Upgrades

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Submissions
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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

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Carriage Porch -
Existing &
Proposed

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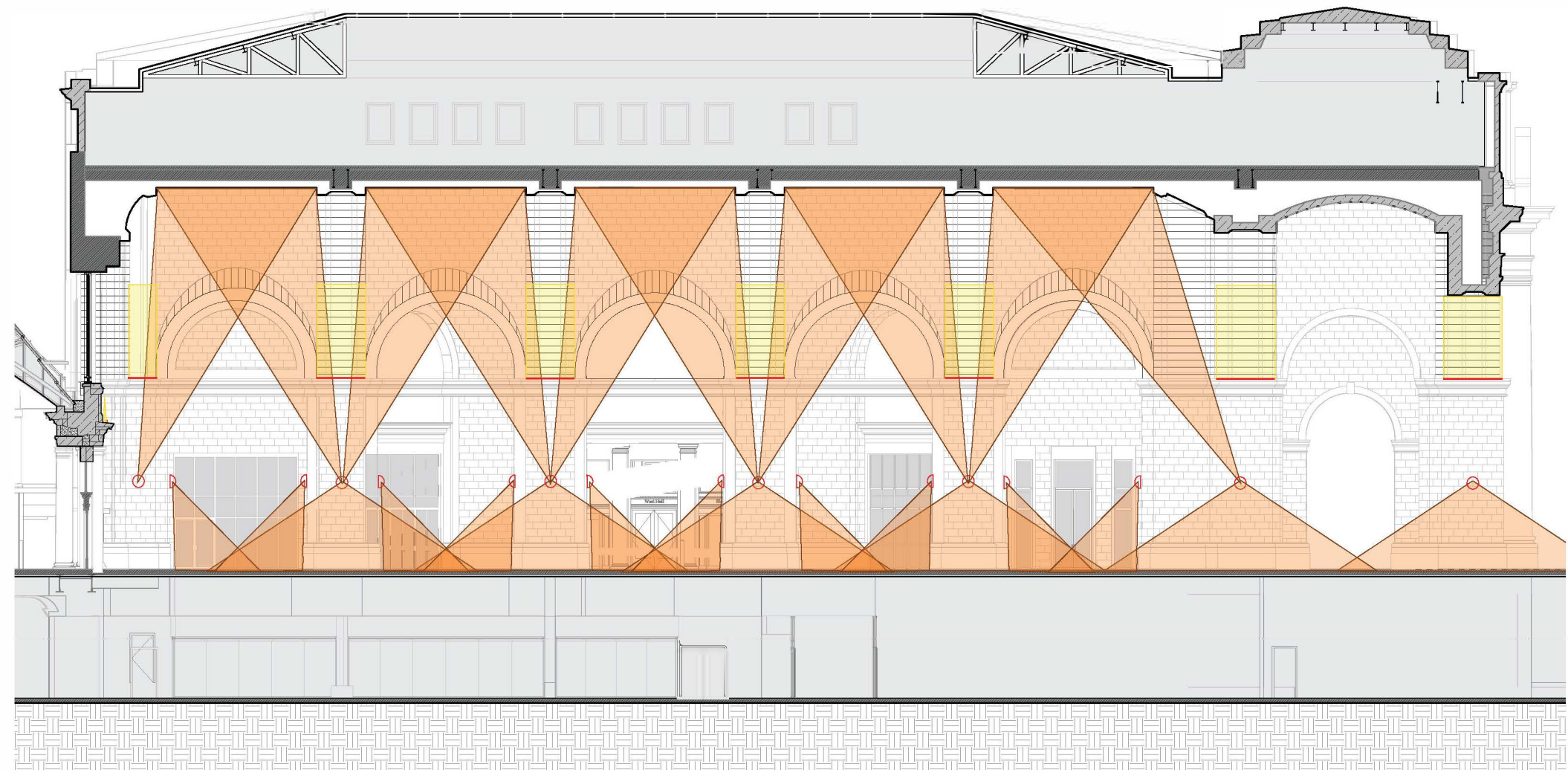
Page Title

Lighting Section
Carriage Porch

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Building Section - Carriage Porch

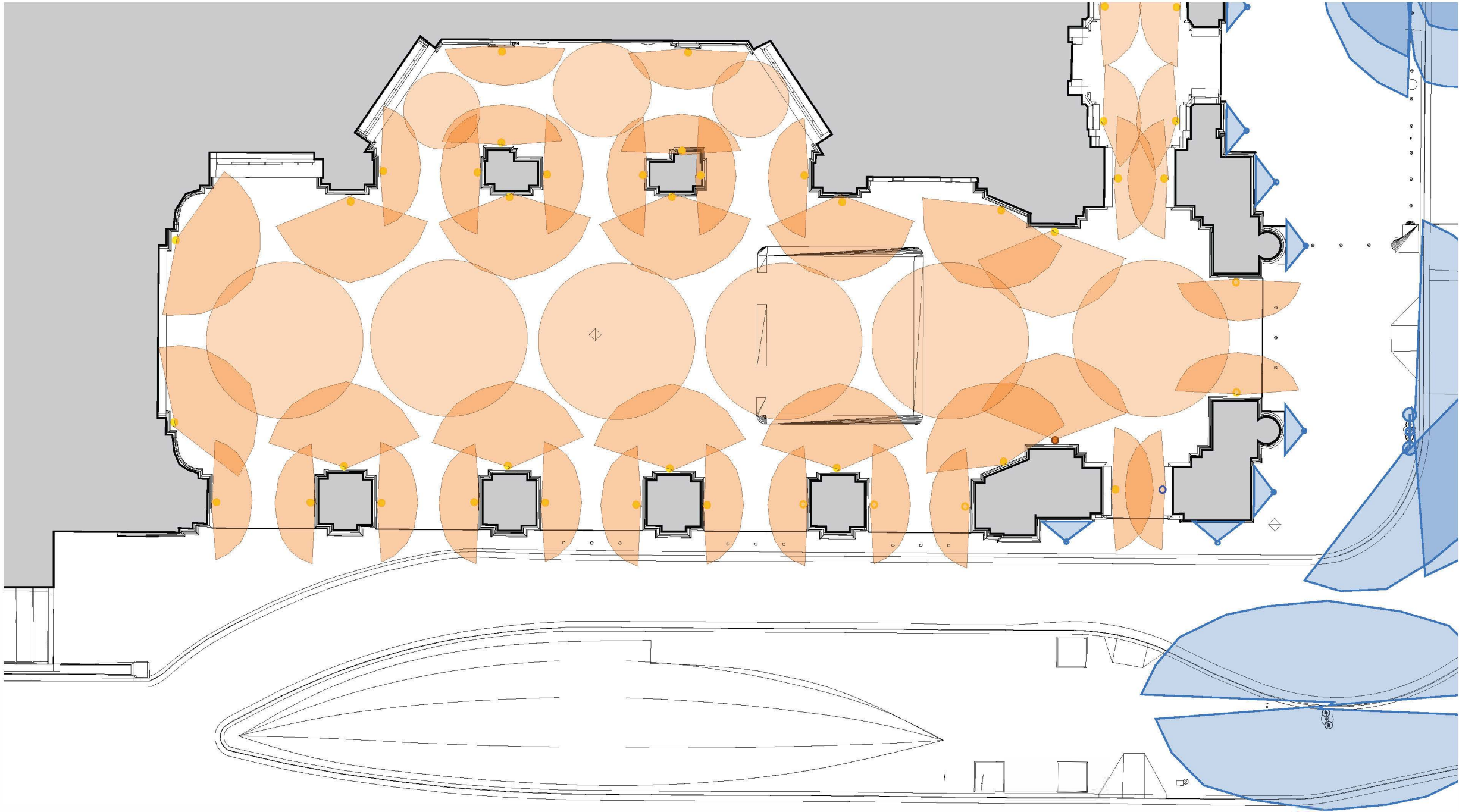


General Notes:
The lighting spread illustrated on the drawings represents the angle of the light and the aimed direction from the proposed optics

Legend

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

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

Washington Union Station
Lighting Upgrades
September 4, 2025
OWNER Union Station REDEVELOPMENT CORPORATION
ARCHITECT ANTUNOVICH ASSOCIATES ARCHITECTS PLANNERS INTERIOR DESIGNERS
LIGHTING DESIGNER CLAUDE R. ENGLE LIGHTING CONSULTANT
STRUCTURAL ENGINEER mcmullan CONSULTING ENGINEERS
MEP & FF ENGINEERS CHT
CIVIL ENGINEER AMT LLC
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Washington
Union Station

Lighting Upgrades

September 4, 2025

OWNER
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REDEVELOPMENT CORPORATION

ARCHITECT
 ANTUNOVICH
ASSOCIATES
ARCHITECTS PLLC

LIGHTING DESIGNER
CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER
 mcmullan
CONSULTING ENGINEERS

MEP & FP ENGINEERS
 CHT

CIVIL ENGINEER
 AMT
LLC

Submissions

8/29/2025 - HPO

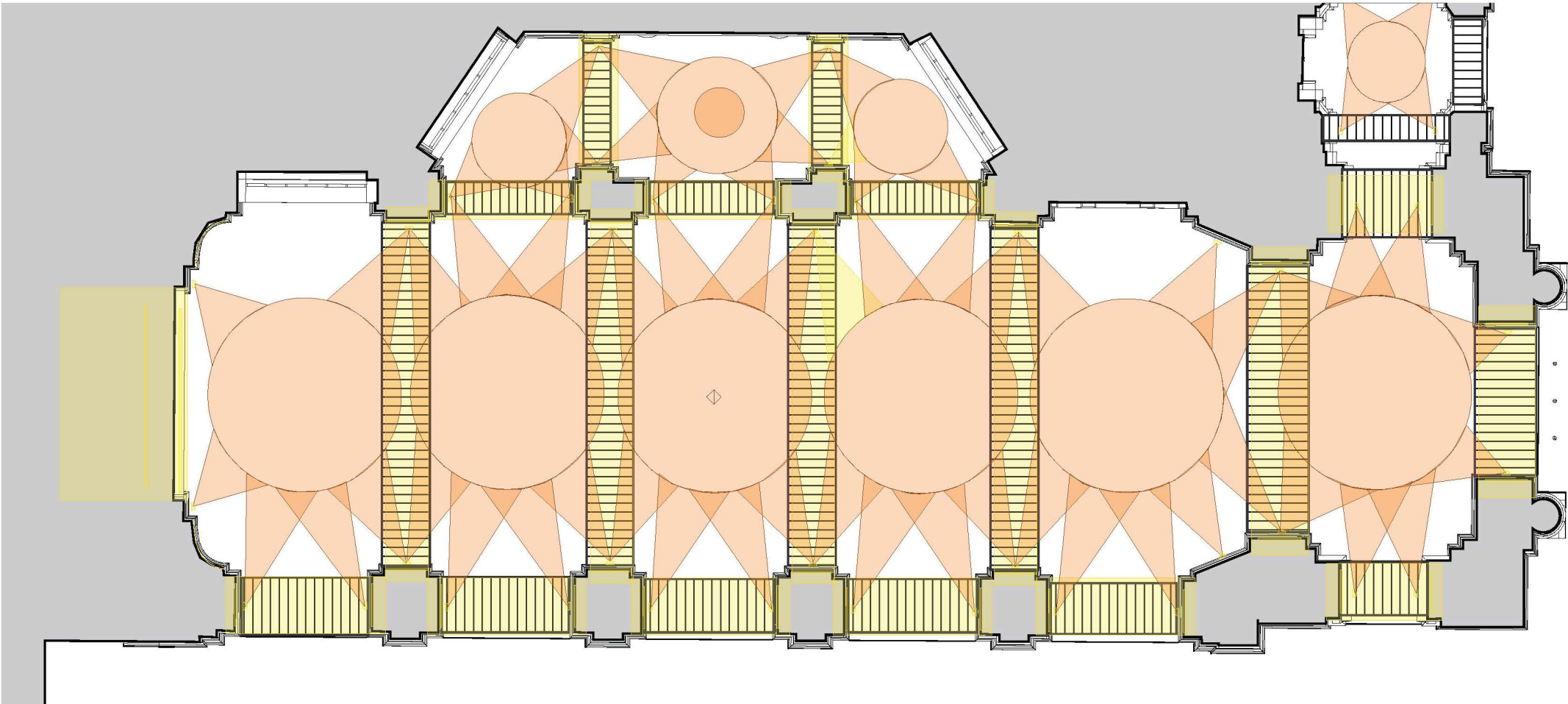
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**Carriage Porch
Lighting RCP**

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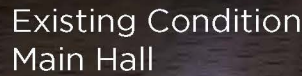
Partial Reflected Ceiling Plan - Carriage Porch



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



300



Proposed Lighting Upgrades
Main Hall

Washington
Union Station

Lighting Upgrades

September 4, 2025

OWNER
 Union Station
REDEVELOPMENT CORPORATION

ARCHITECT
 ANTUNOVICH
ASSOCIATES
ARCHITECTURE • INTERIORS • LANDSCAPE DESIGN

LIGHTING DESIGNER
CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER
 mcmullan
CONSULTING ENGINEERS

MEP & FF ENGINEERS
 CHT

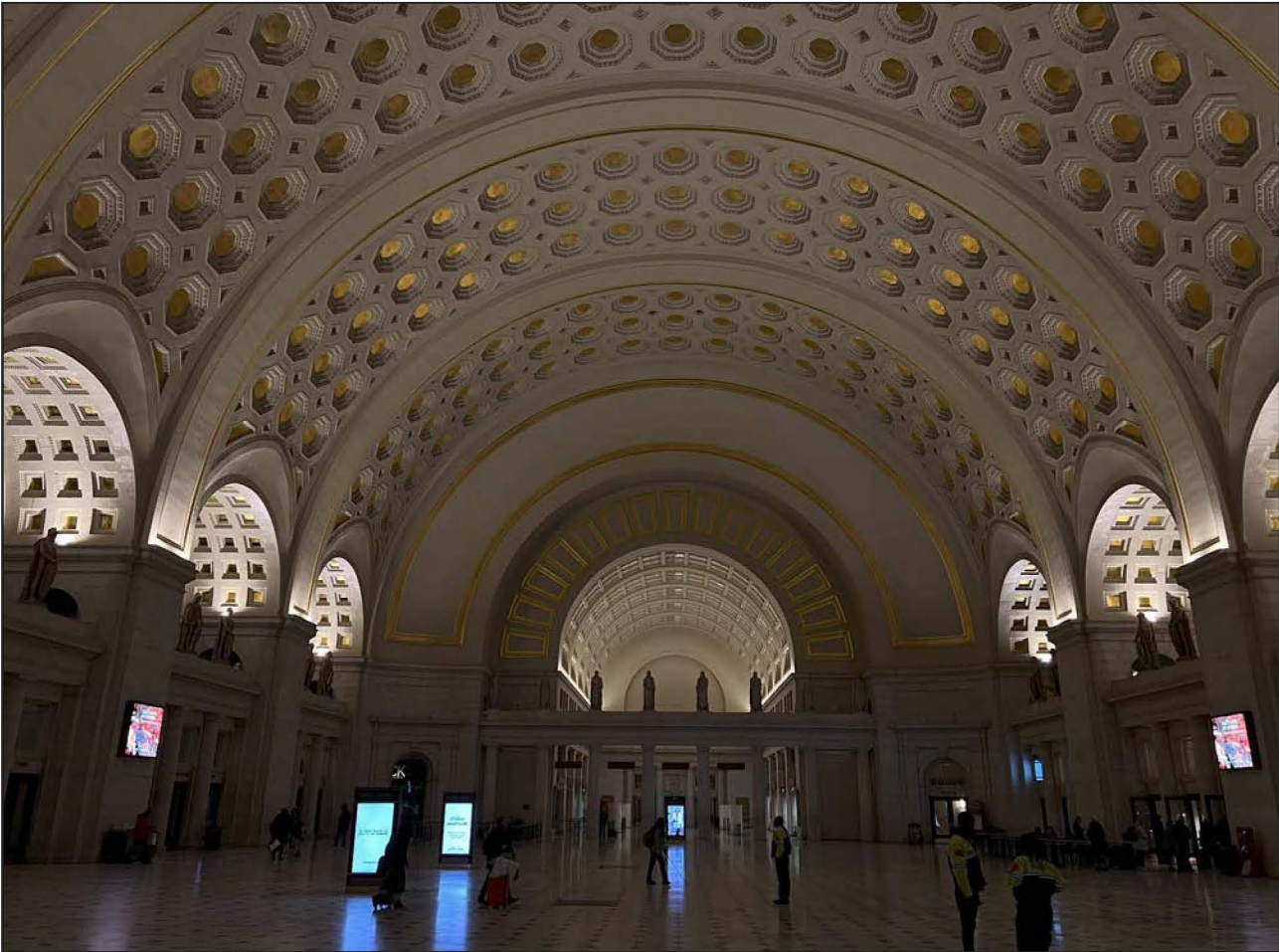
CIVIL ENGINEER
 AMT LLC
ARCHITECTURAL MODELING TECHNOLOGIES

Submissions
8/29/2025 - HPO

Page Title
**Main Hall -
Proposed
Rendering**

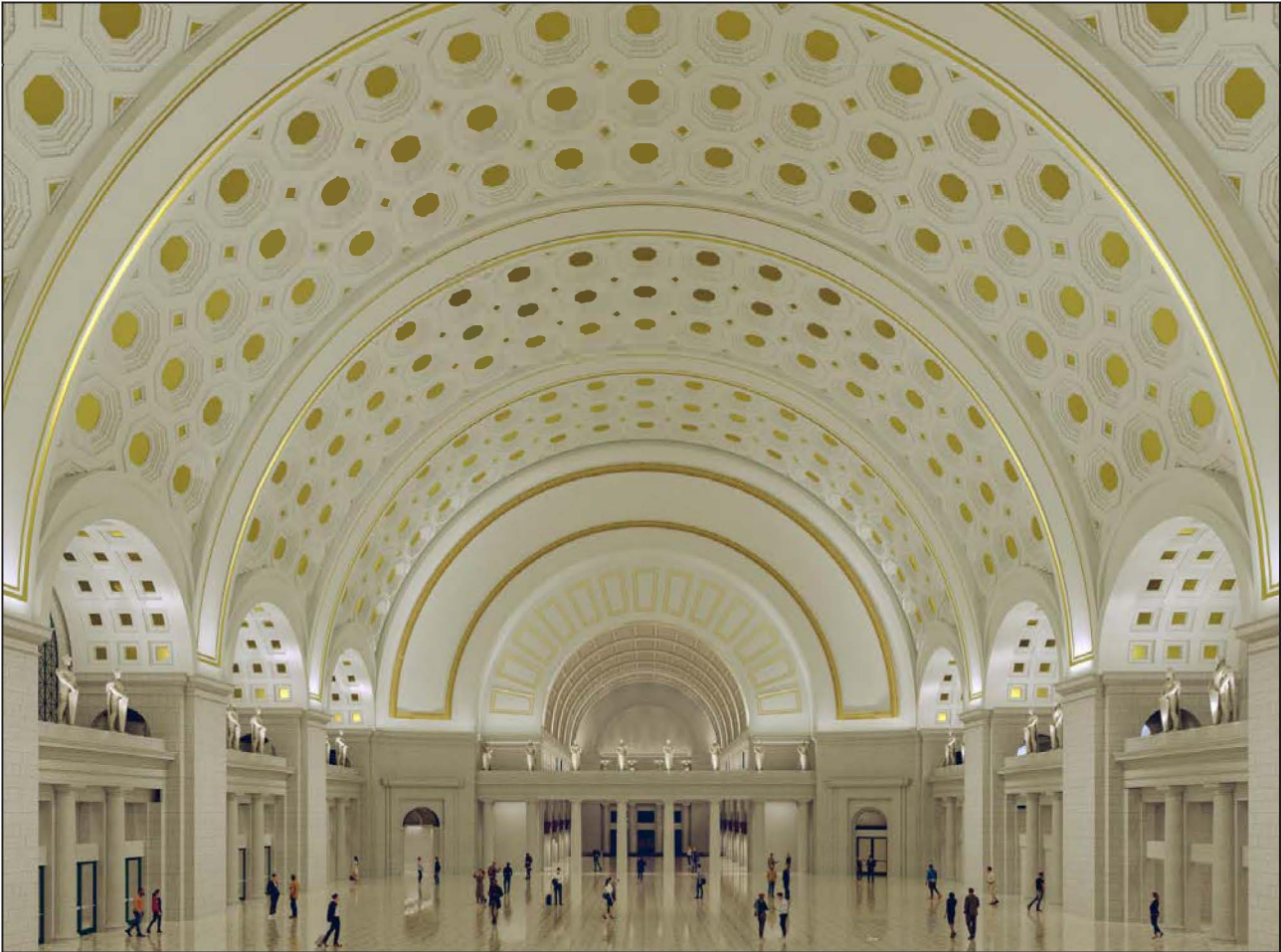
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301

Current Condition
Main Hall



Existing Condition Photo

Proposed Lighting Upgrades
Main Hall



Proposed Lighting Design

Washington
Union Station

Lighting Upgrades

September 4, 2025

OWNER



ARCHITECT



LIGHTING DESIGNER



STRUCTURAL ENGINEER



MEP & FF ENGINEERS



CIVIL ENGINEER



Submissions

8/29/2025 - HPO

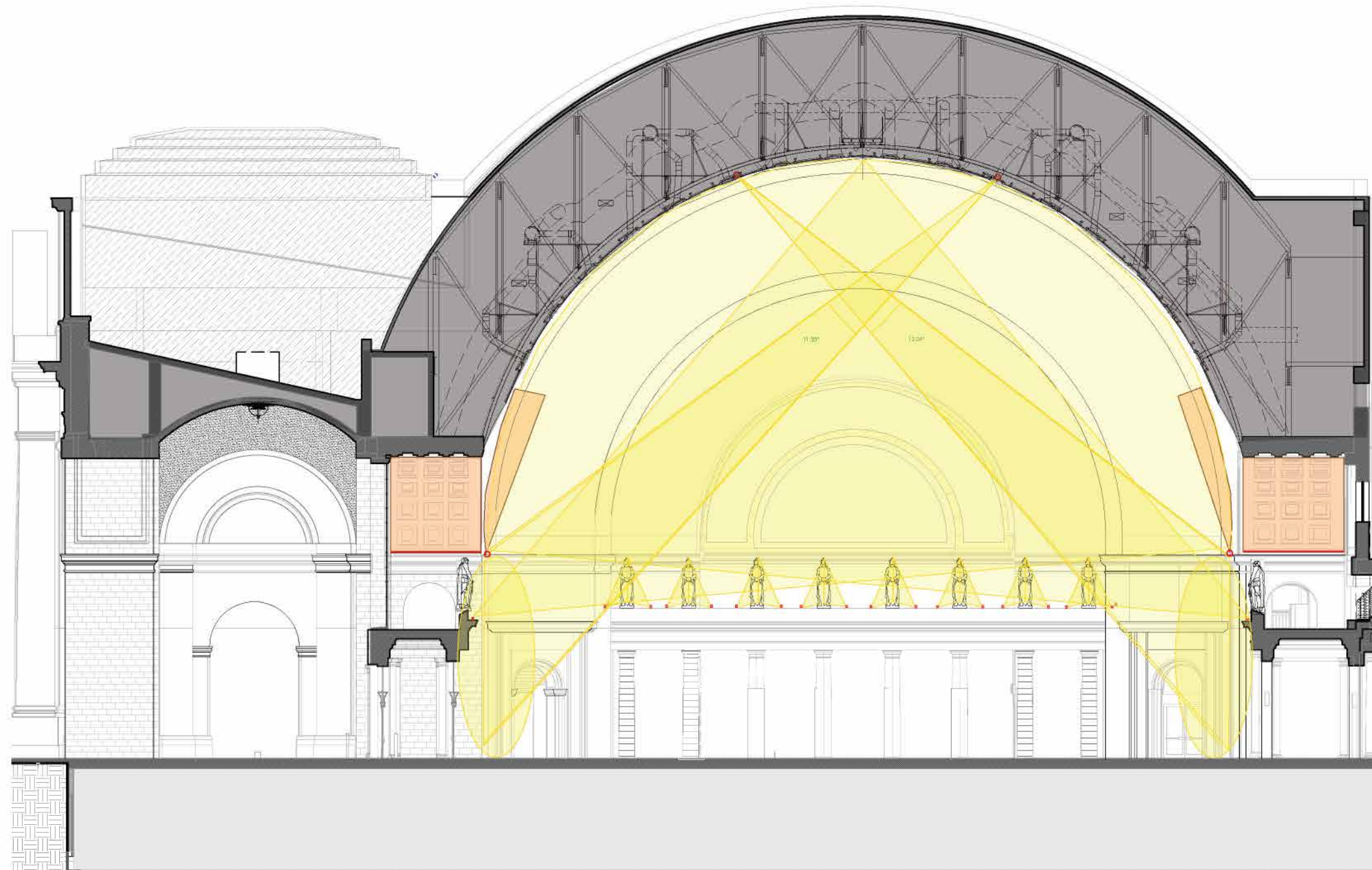
Page Title

Main Hall -
Existing &
Proposed

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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 4, 2025

OWNER



ARCHITECT



LIGHTING DESIGNER

CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER



MEP & FP ENGINEERS



CIVIL ENGINEER



Submissions

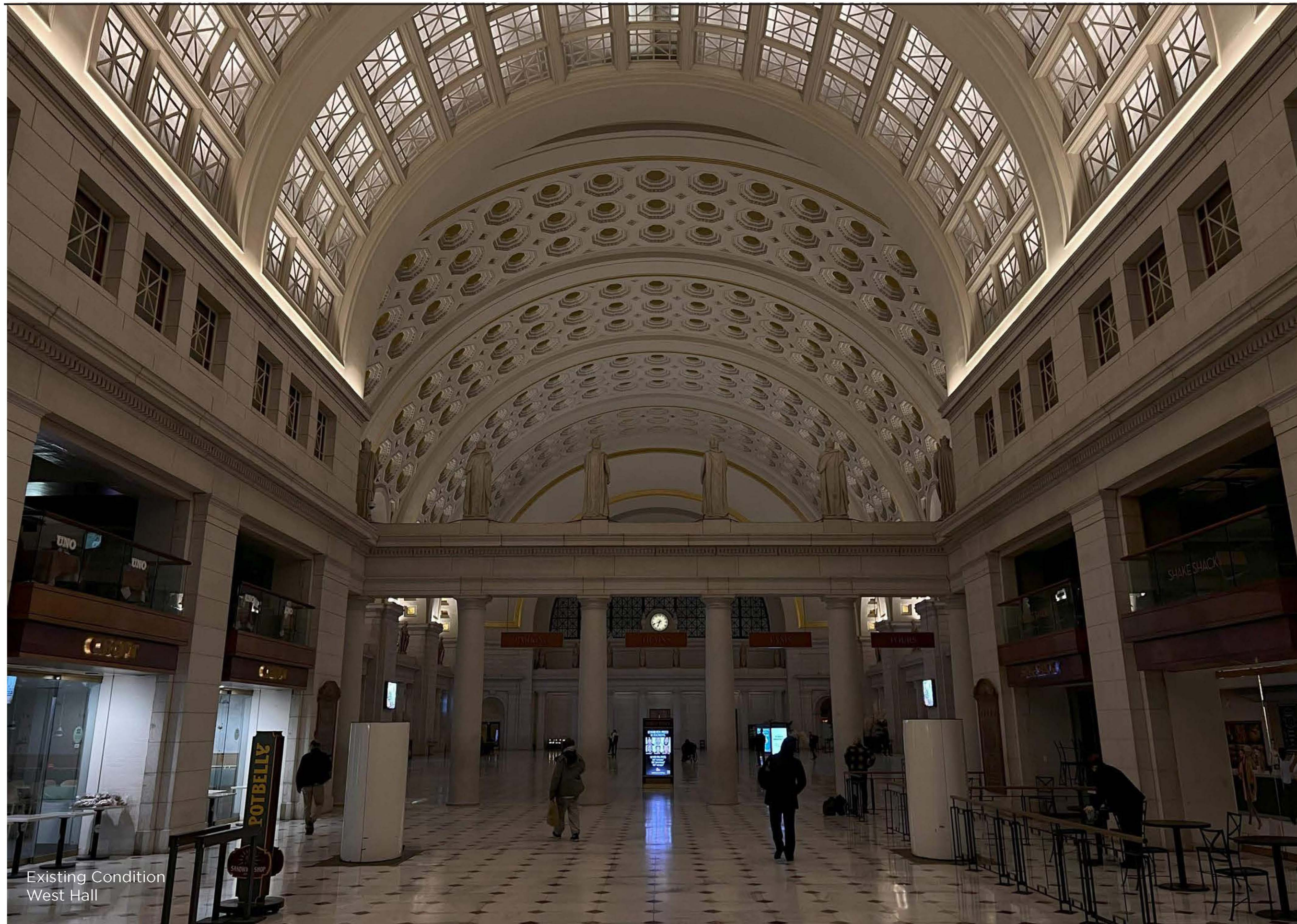
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Lighting Section - Main Hall

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Washington Union Station

September 4, 2025

WNEF



ARCHITECT



LIGHTING DESIGNER

CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER



MEP & FP ENGINEERS



CIVIL ENGINEER



Submissions

8/29/2025 - HPO

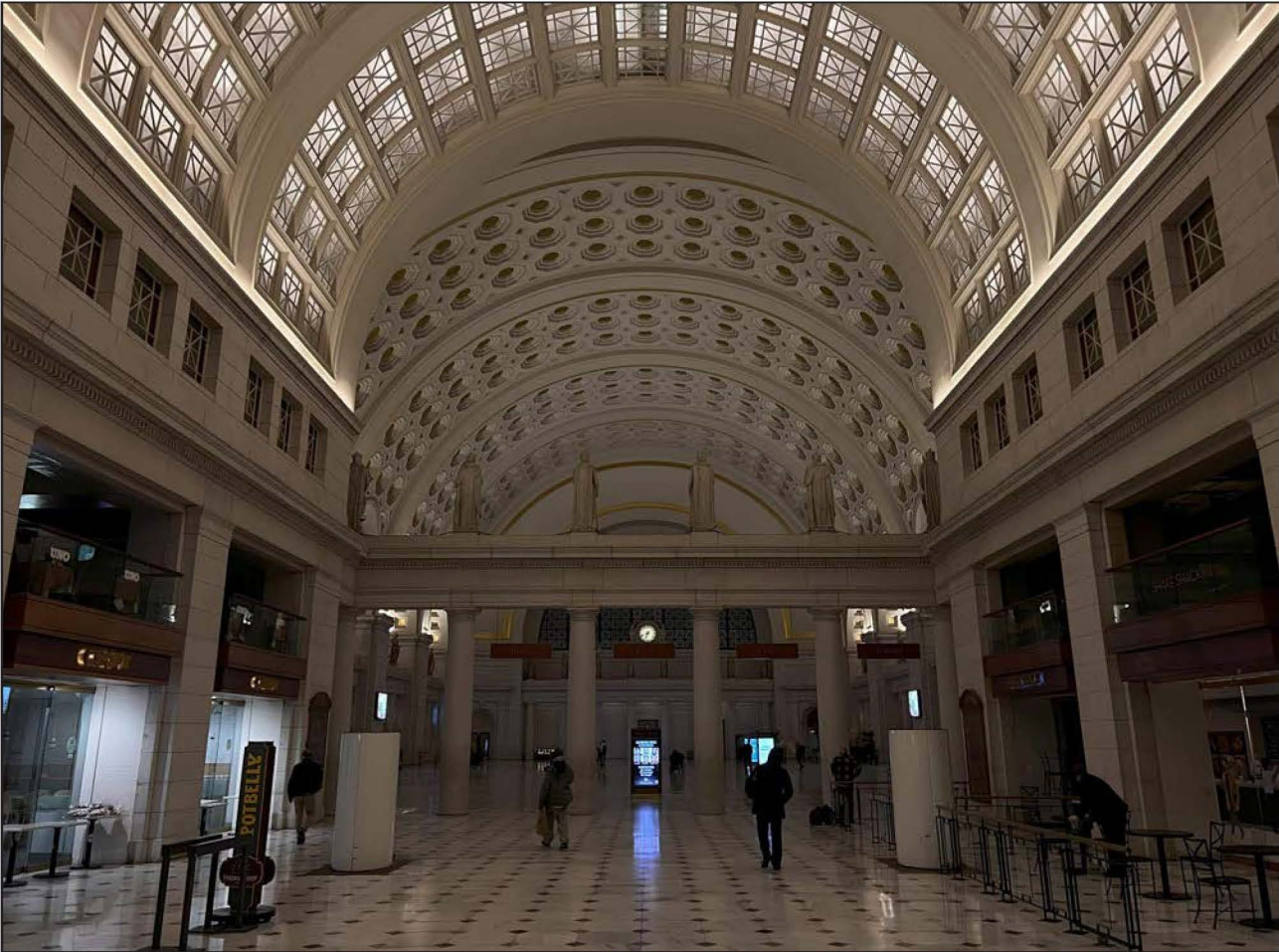
Page Title

West Hall - Existing

Page Number

400

Current Condition
West Hall







Existing Condition Photo

Proposed Lighting Upgrades
West Hall



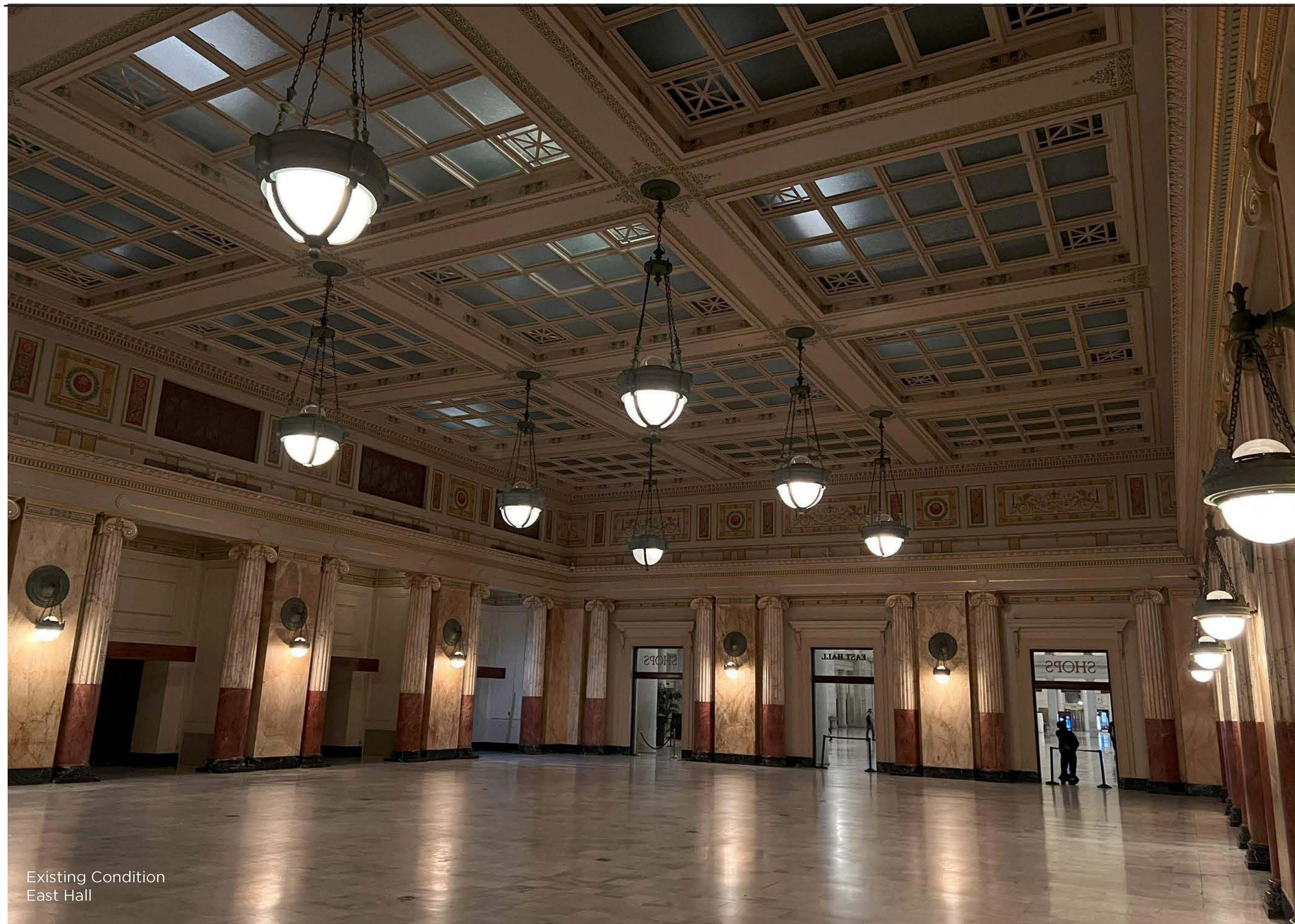
Proposed Lighting Design

<div>Washington Union Station</div> <div>Lighting Upgrades</div> <div>September 4, 2025</div>
<div>OWNER</div> <div><div> Union Station</div><div>REDEVELOPMENT CORPORATION</div></div>
<div>ARCHITECT</div> <div><div> ANTUNOVICH ASSOCIATES</div><div>ARCHITECTS • PLANNERS • INTERIOR DESIGNERS</div></div>
<div>LIGHTING DESIGNER</div> <div><div>CLAUDE R. ENGLE</div><div>LIGHTING CONSULTANT</div></div>
<div>STRUCTURAL ENGINEER</div> <div><div> mcmullan</div><div>CONSULTING ENGINEERS</div></div>
<div>MEP & FF ENGINEERS</div> <div><div>CHT</div></div>
<div>CIVIL ENGINEER</div> <div><div> AMT LLC</div><div>ARCHITECTS • PLANNERS • ENGINEERS</div></div>
<div>Submissions</div> <div>8/29/2025 - HPO</div> <div></div> <div></div> <div></div> <div></div> <div></div>
<div>Page Title</div> <div>West Hall - Existing & Proposed</div>
<div>Page Number</div> <div>402</div>

Legend

- Light from new fixtures
- Light from new fixtures replacing existing modern fixtures in-situ

403



Washington Union Station

September 4, 2025

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ARCHITECT



LIGHTING DESIGNER

CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER



MEP & FP ENGINEERS



CIVIL ENGINEER



Submissions

8/29/2025 - HPO

Page Title

East Hall - Existing

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Proposed Lighting Upgrades
East Hall

Washington
Union Station

Lighting Upgrades

September 4, 2025

OWNER
 Union Station
REDEVELOPMENT CORPORATION

ARCHITECT
 ANTUNOVICH
ASSOCIATES
ARCHITECTS PLLC

LIGHTING DESIGNER
CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER
 mcmullan
CONSULTING ENGINEERS

MEP & FF ENGINEERS
 CHT

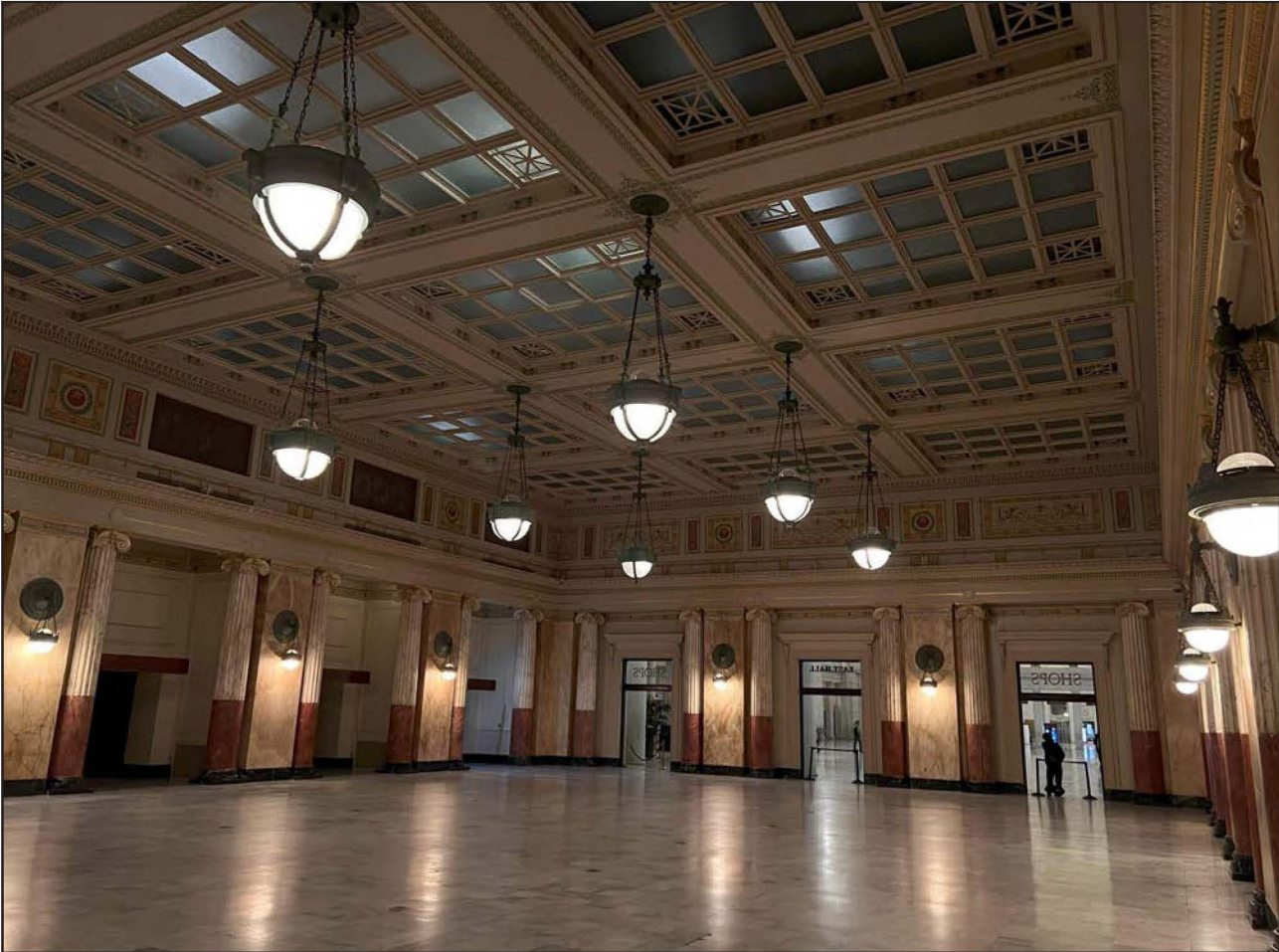
CIVIL ENGINEER
 AMT
LLC
PROFESSIONAL ENGINEERS & LAND SURVEYORS

Submissions
8/29/2025 - HPO

Page Title
**East Hall -
Proposed**

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501

Current Condition
East Hall



Existing Condition Photo

Proposed Lighting Upgrades
East Hall



Proposed Lighting Design

Washington
Union Station

Lighting Upgrades

September 4, 2025

OWNER



ARCHITECT



LIGHTING DESIGNER



STRUCTURAL ENGINEER



MEP & FF ENGINEERS



CIVIL ENGINEER



Submissions

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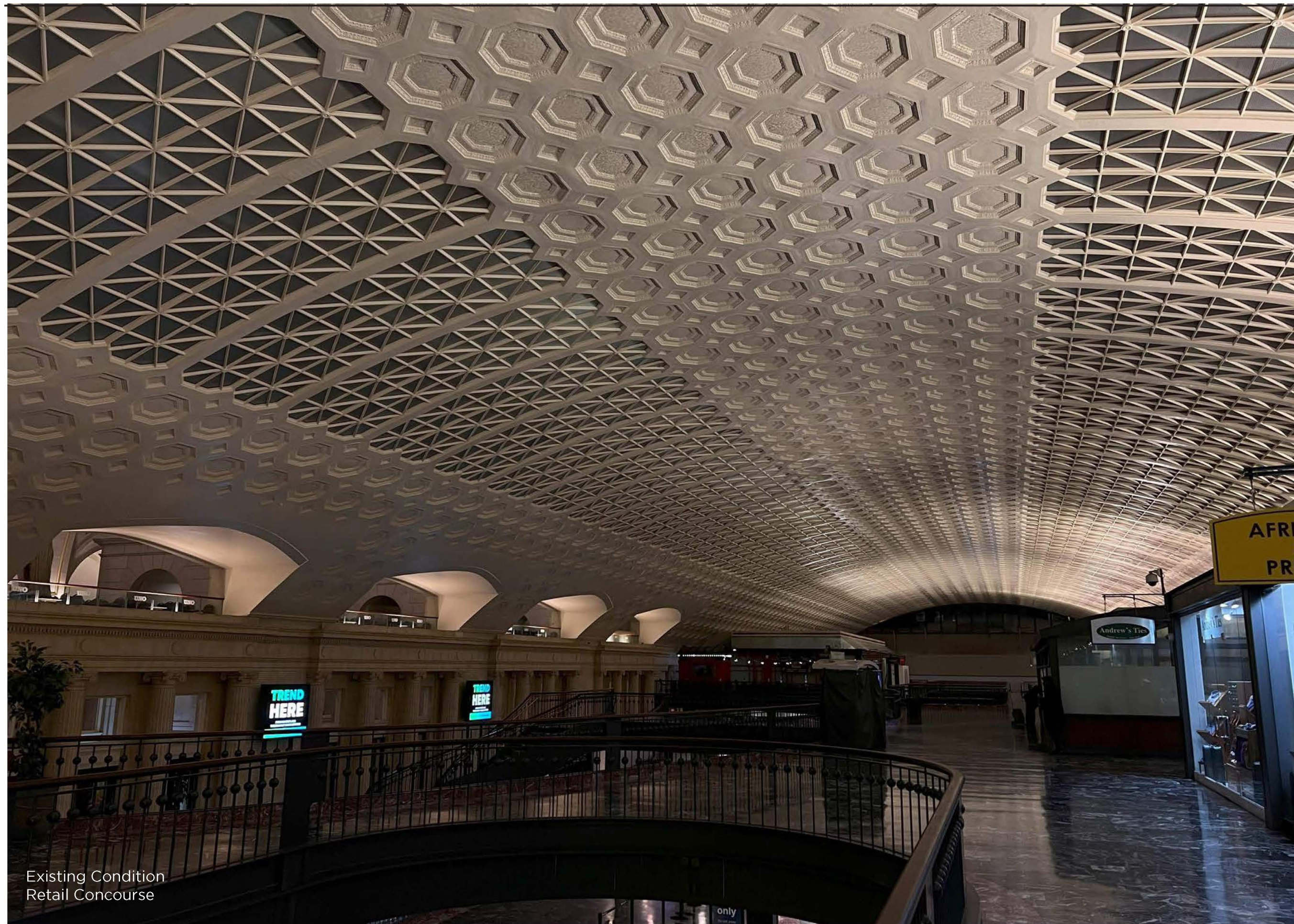
East Hall -
Existing &
Proposed

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



Washington Union Station

September 4, 2025

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ARCHITECT



CLAUDE R. ENGLE
LIGHTING CONSULTANT

STRUCTURAL ENGINEER



MEP & FP ENGINEERS



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Submissions

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Retail Concourse - Existing

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Proposed Lighting Upgrades
Retail Concourse

Washington Union Station

Lighting Upgrades

September 4, 2025

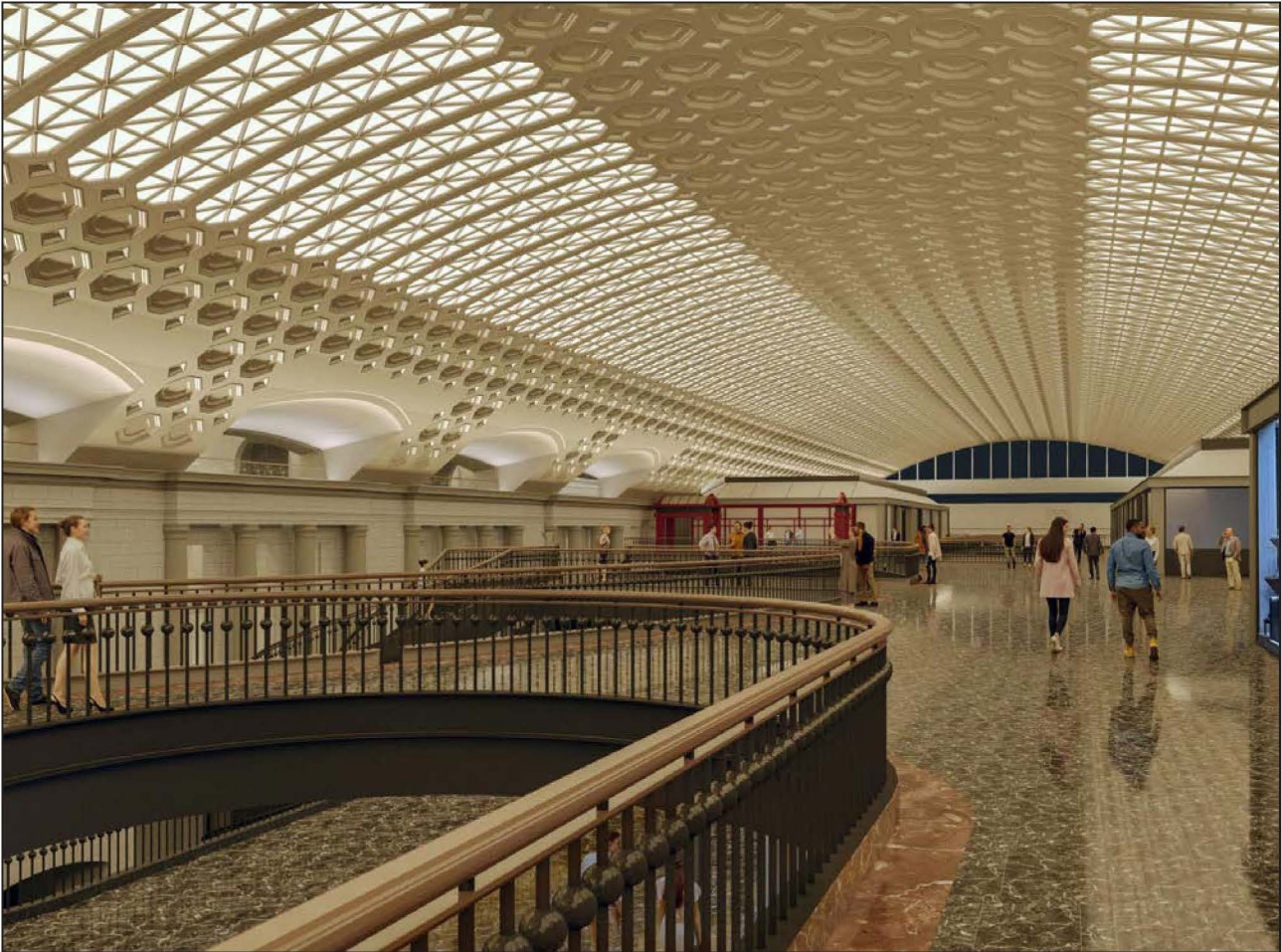
OWNER
 Union Station REDEVELOPMENT CORPORATION
ARCHITECT
 ANTUNOVICH ASSOCIATES ARCHITECTURE INTERIORS LANDSCAPE DESIGN
LIGHTING DESIGNER
CLAUDE R. ENGLE LIGHTING CONSULTANT
STRUCTURAL ENGINEER
 mcmullan CONSULTING ENGINEERS
MEP & FF ENGINEERS
 CHT
CIVIL ENGINEER
 AMT LLC ARCHITECTURAL MATERIALS TECHNOLOGY
Submissions
8/29/2025 - HPO
Page Title
Retail Concourse - Proposed Rendering
Page Number
601

Current Condition
Retail Concourse



Existing Condition Photo

Proposed Lighting Upgrades
Retail Concourse



Proposed Lighting Design

Washington
Union Station

Lighting Upgrades

September 4, 2025

OWNER



ARCHITECT



LIGHTING DESIGNER



STRUCTURAL ENGINEER



MEP & FP ENGINEERS



CIVIL ENGINEER



Submissions

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Retail Concourse -
Existing &
Proposed

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- Light from new fixtures
- Light from new fixtures replacing existing modern fixtures in-situ

604

- Light from new fixtures
- Light from new fixtures replacing existing modern fixtures in-situ