

Rehabilitation of the West 79th Street Rotunda Complex and West 79th Street Bridge Over Amtrak

Landmarks Preservation Commission
June 2019

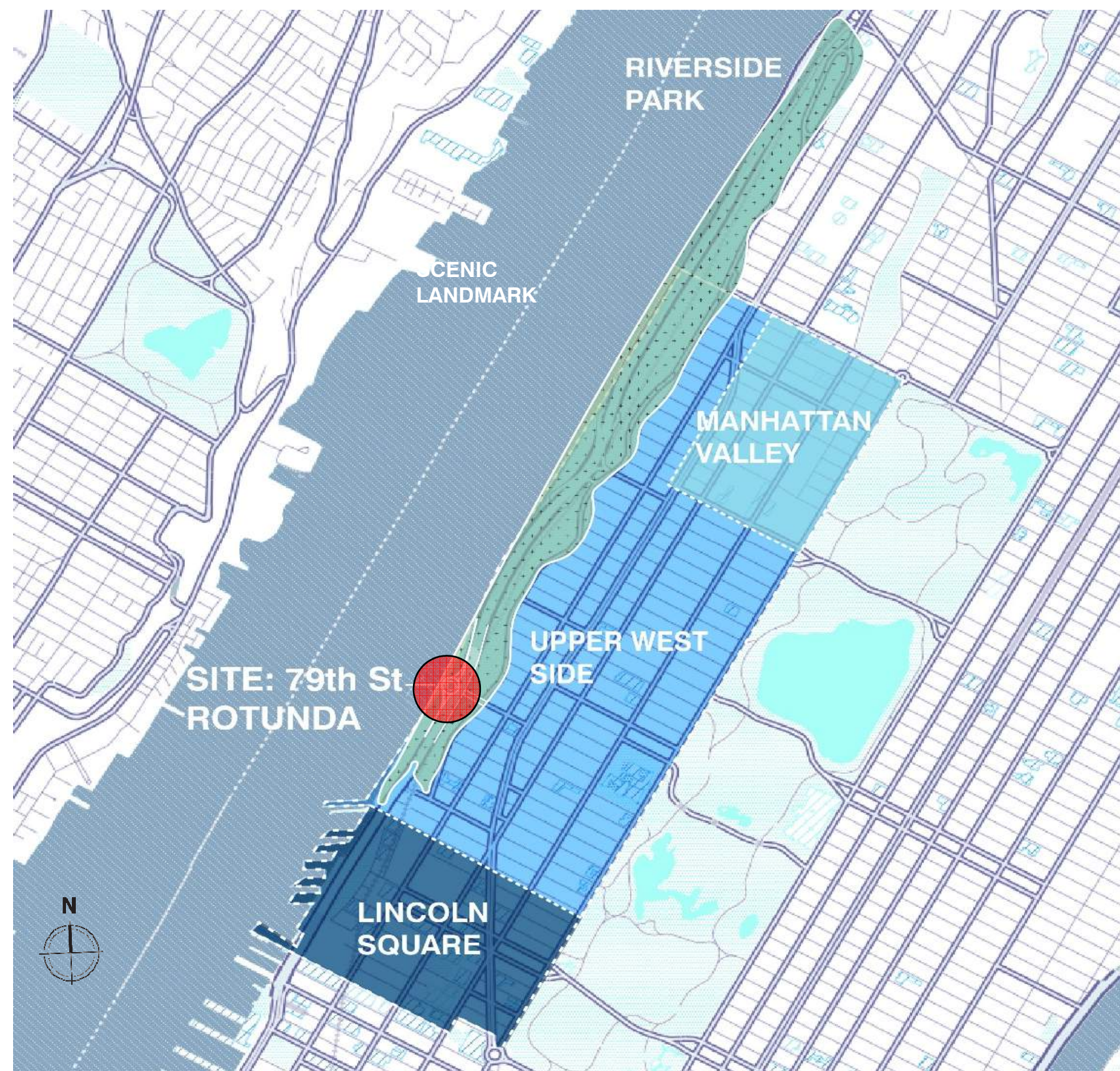
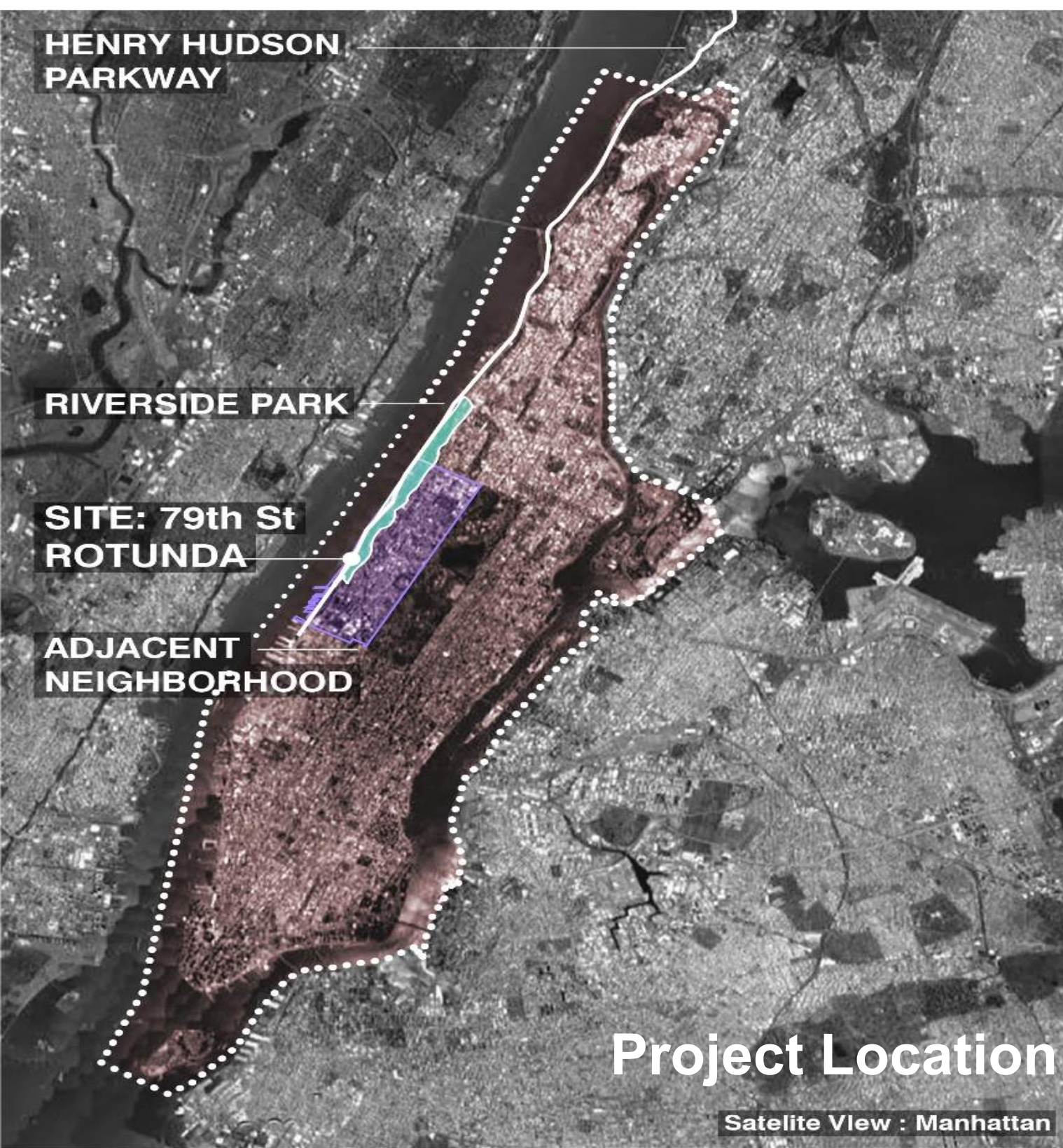


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Department of Parks and Recreation

Rehabilitation of the West 79th Street Rotunda
Complex And West 79th Street Bridge over Amtrak
June 2019

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Title



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Project
Location
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Project Background

Listed on the National Register of Historic Places and a contributing element to the Riverside Park/Riverside Drive Scenic Landmark, the West 79th Rotunda Complex is an essential element of Riverside Park and the local community. After over 80 years of use, the Rotunda Complex is in poor condition. This rehabilitation will restore and enhance the structure's place as a destination and serve as leap forward in New York City's drive to revitalize the waterfront.



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Project
Background
3

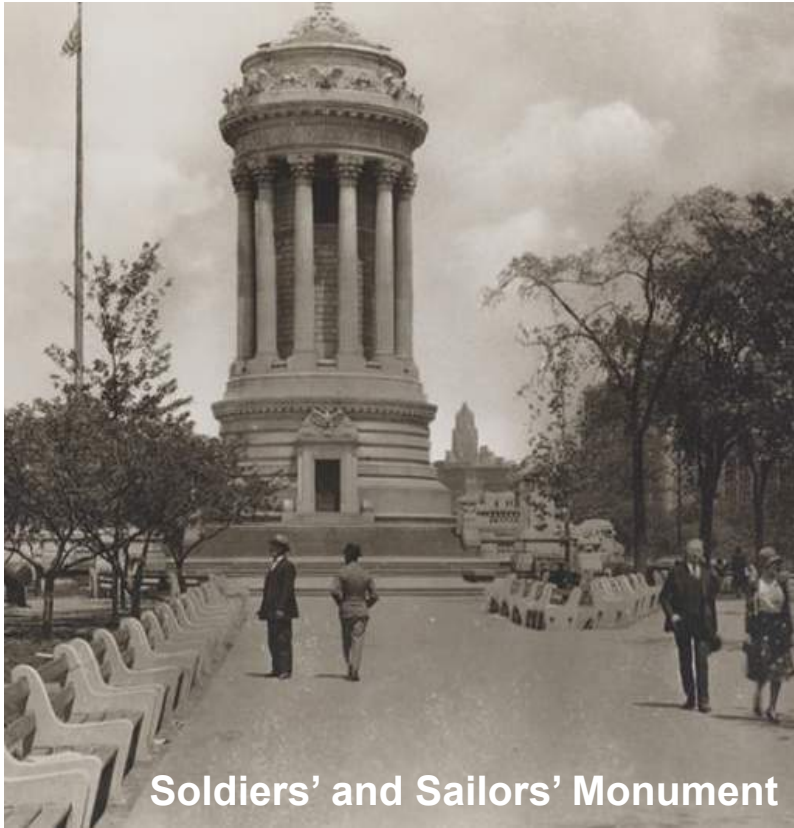
Riverside Park, a Scenic Landmark

Frederick Law Olmsted, co-designer of Central Park, was commissioned in 1873 and submitted a plan combining park and drive into a synthesized landscape which adhered to the general topographical contours of hill and dale. The result, stretching from West 72nd to 125th Streets, was a park with a grand, tree-lined boulevard, combined with an English-style rustic park with informally arranged trees and shrubs, contrasting natural enclosures, and open vistas. - NYCDPR

<https://www.nycgovparks.org/parks/riverside-park>



Grant's Tomb



Soldiers' and Sailors' Monument



Soccer Field



Boat Basin



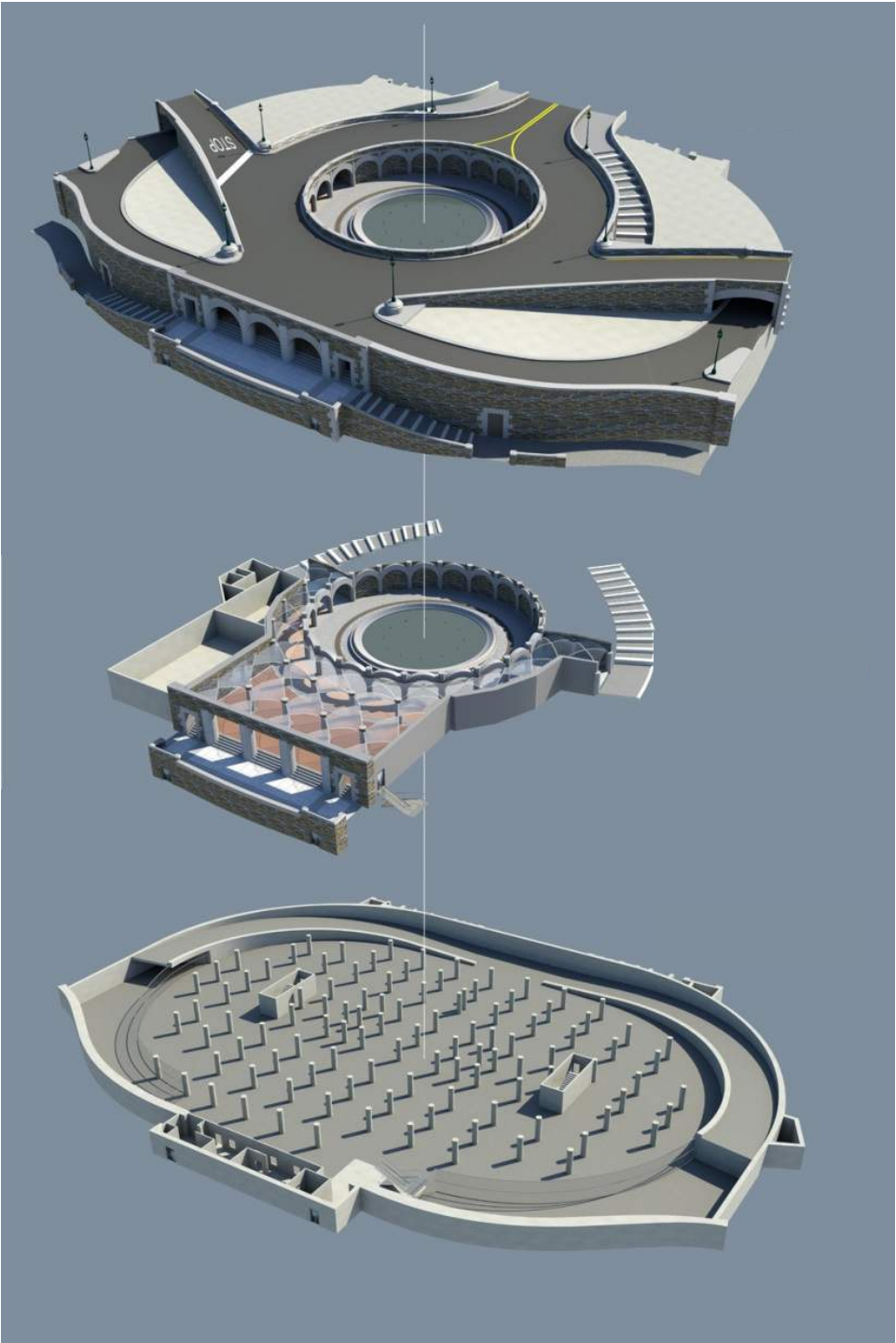
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Riverside Park
Scenic Landmark
4

Rotunda Structure



Traffic Circle Level

Pedestrian Plaza Level

Garage Level

Historic Photographs



Aerial photograph over Hudson River,
1937



Rotunda and stepped ramp, 1937



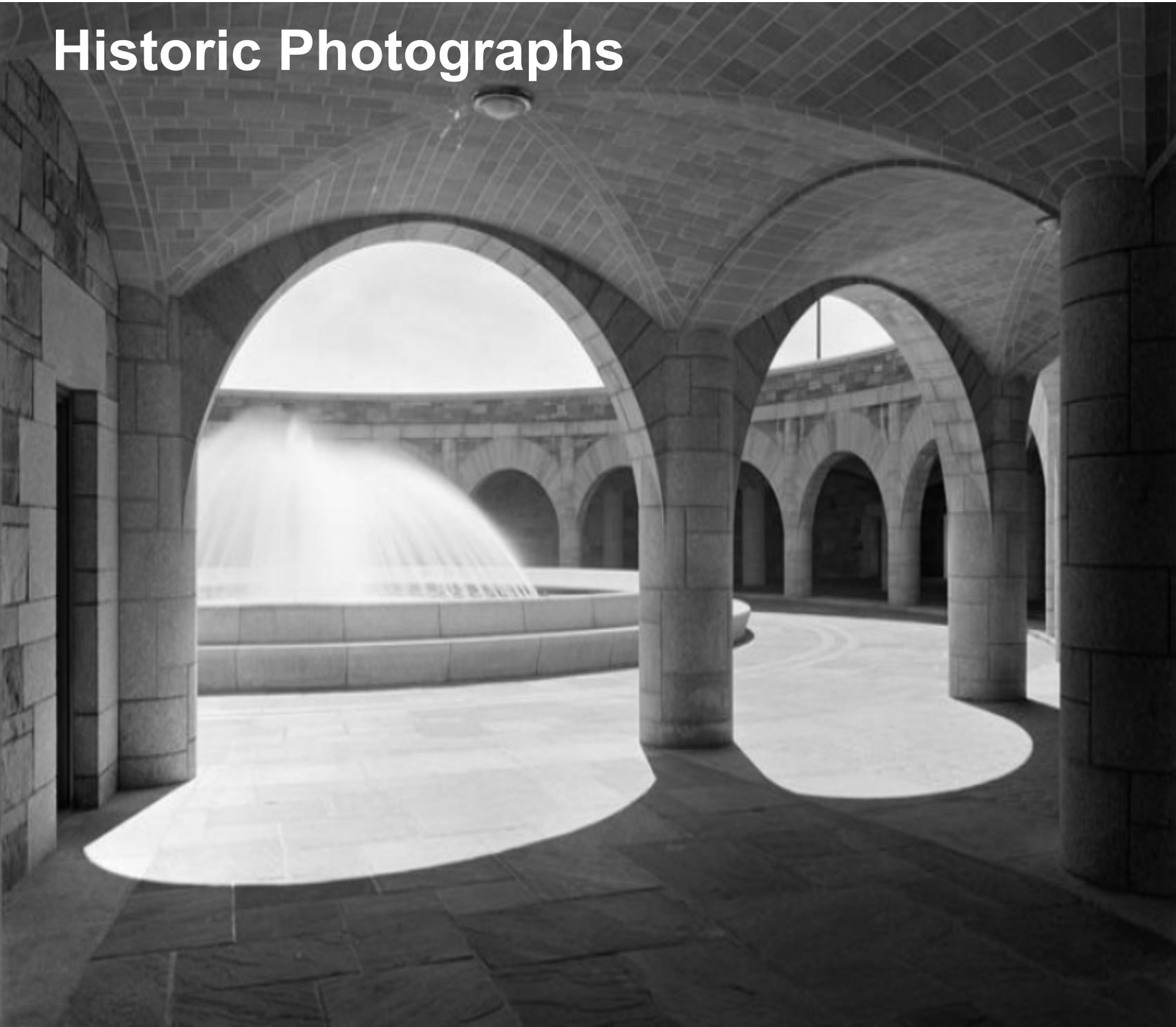
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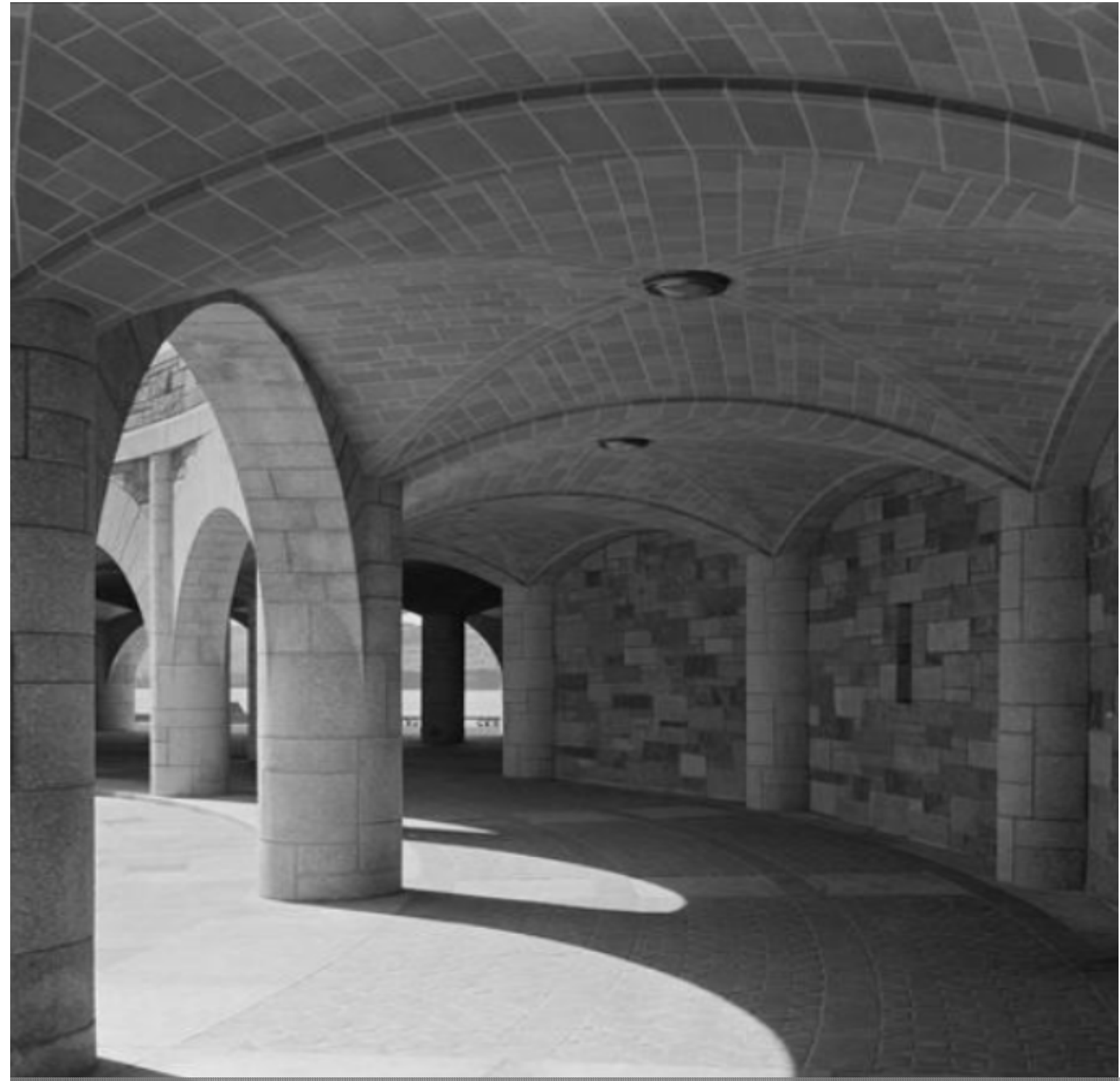
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Historic
Photographs
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Historic Photographs



Fountain and Guastavino ceilings, 1937



Arcade and Guastavino ceilings, 1937



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Historic
Photographs
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Historic Photographs



Traffic Circle to Plaza stepped ramp, 1937



Traffic rotunda and park, 1937



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Historic Photographs



Guastavino arches and fountain, 1937



Rotunda opening ceremony, 1937

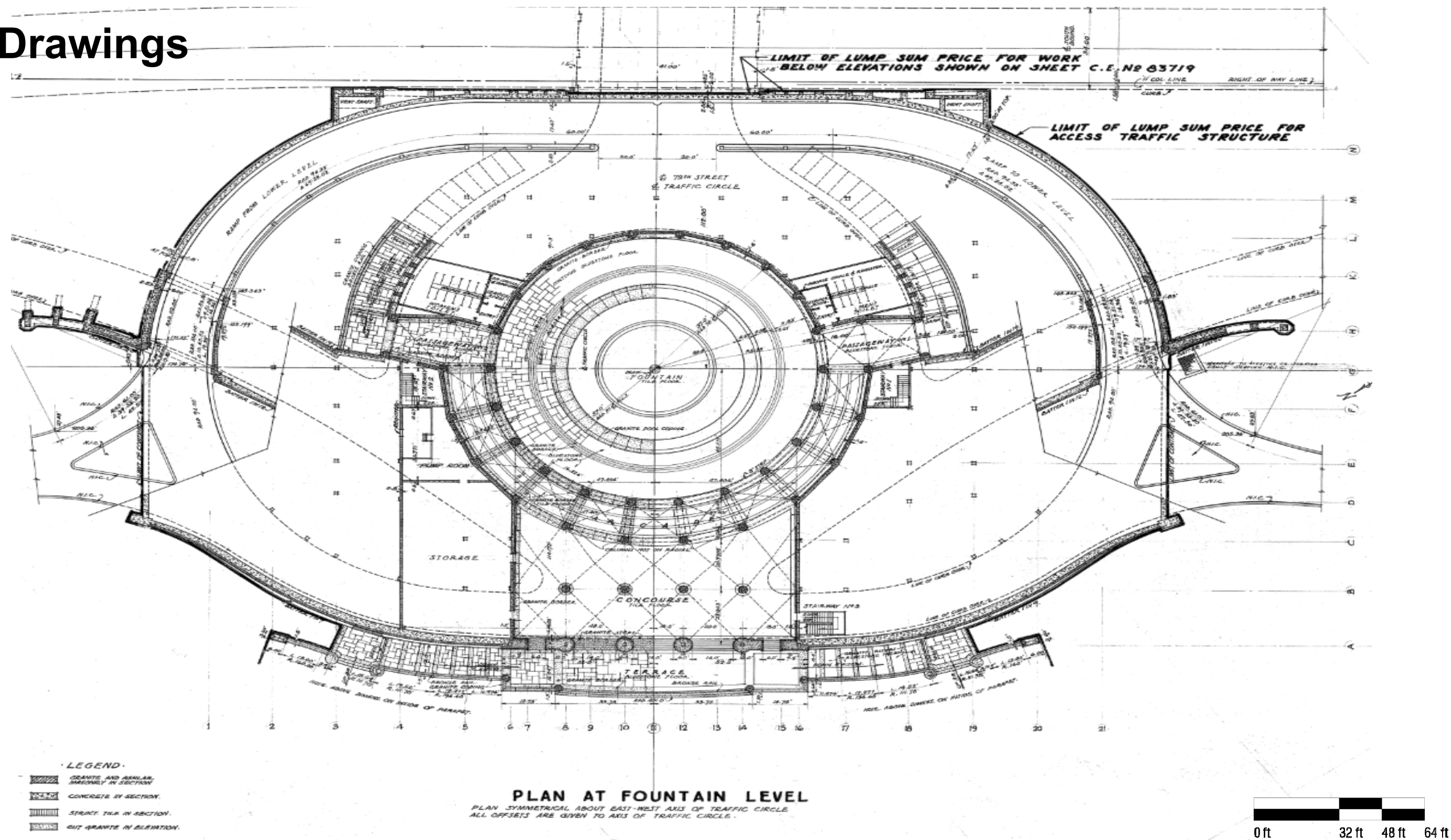


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Historic Drawings

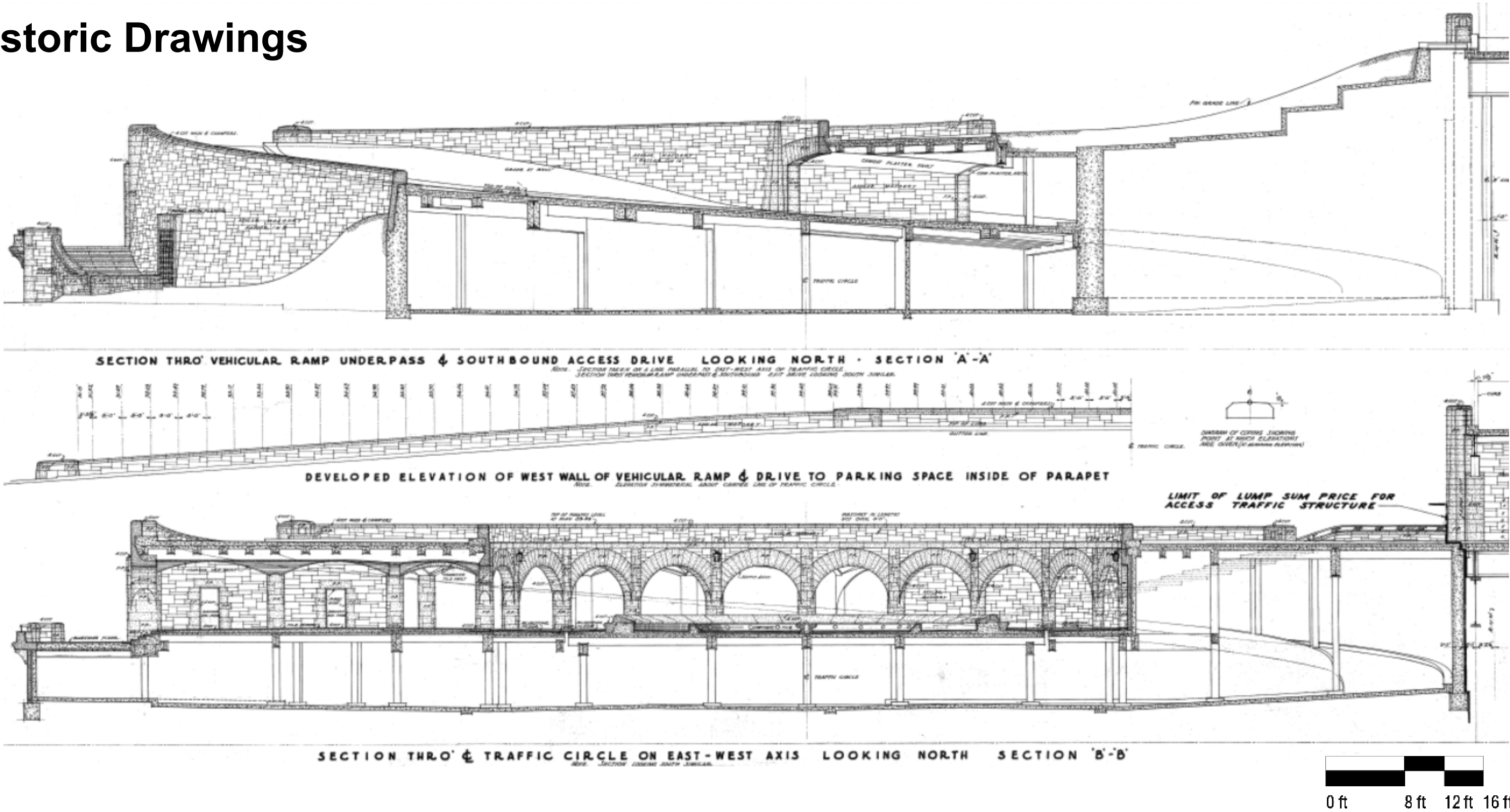


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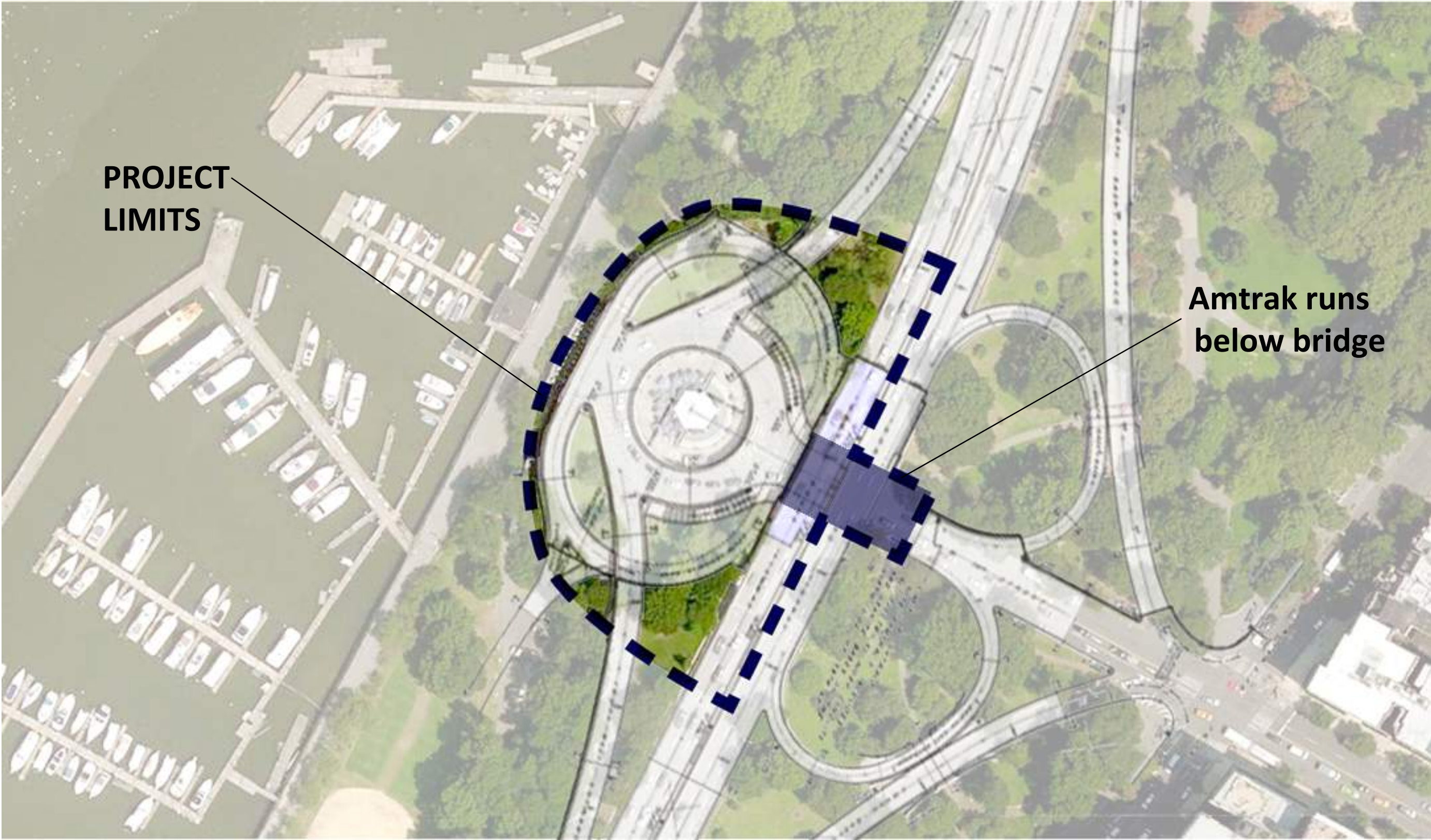
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Historic Drawings



Site Plan

NOTE:
Construction
Staging location to
be determined by the
Contractor. The
Contractor will be
required to present to
LPC for approval
during construction
phase.



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Design Approach

- The historically meaningful elements of the structure will be restored to match the original construction as close as is technically feasible.
- New elements will be designed to be elegant, minimal, and transparent, allowing the historic architecture to be appreciated and understood as originally intended.
- New elements to use materials and finishes that complement the materials and finishes seen throughout Riverside Park.



Original Fountain Turtle

Overview

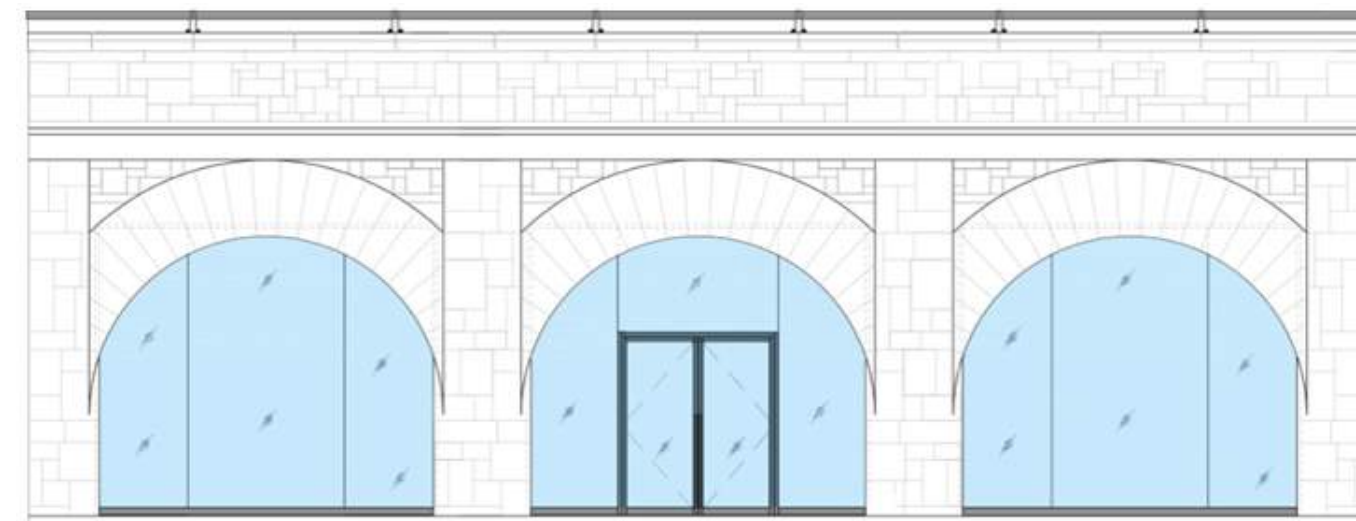
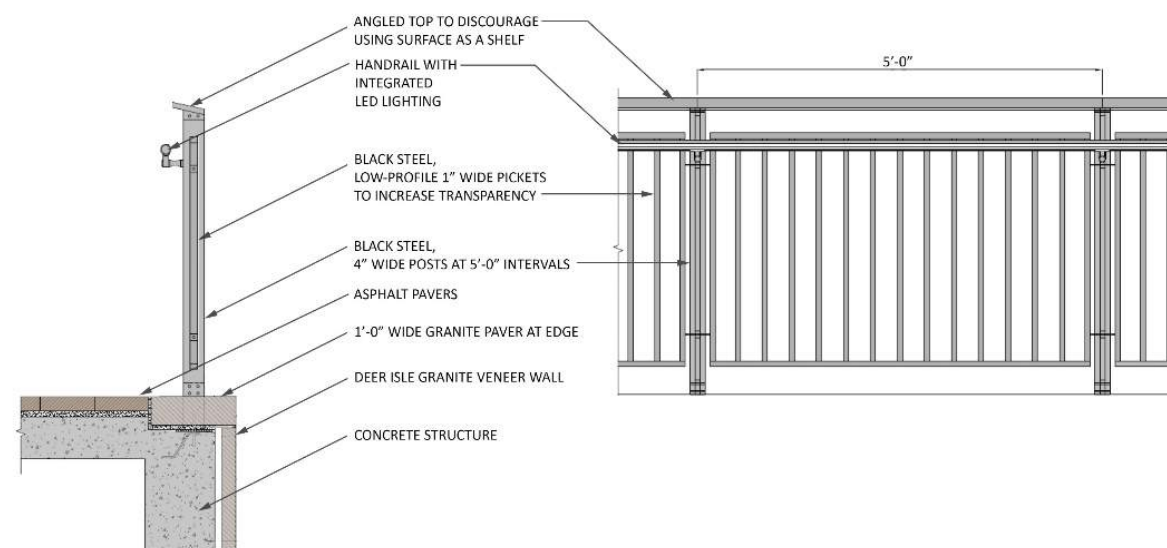


New Elements and Modifications

- NYCDPR office space and glass façade
- Expand concessionaire space / New door opening to concessionaire space
- Profile pedestrian plaza (eliminate 4" step) within rotunda to meet the adjacent elevation for ADA compliance
- Refurbish and upgrade accessible public restrooms
- Provide multiple accessible ramps for access from street level to Riverside Park.
- Relocate kitchen exhaust shaft

Historic Restoration Elements

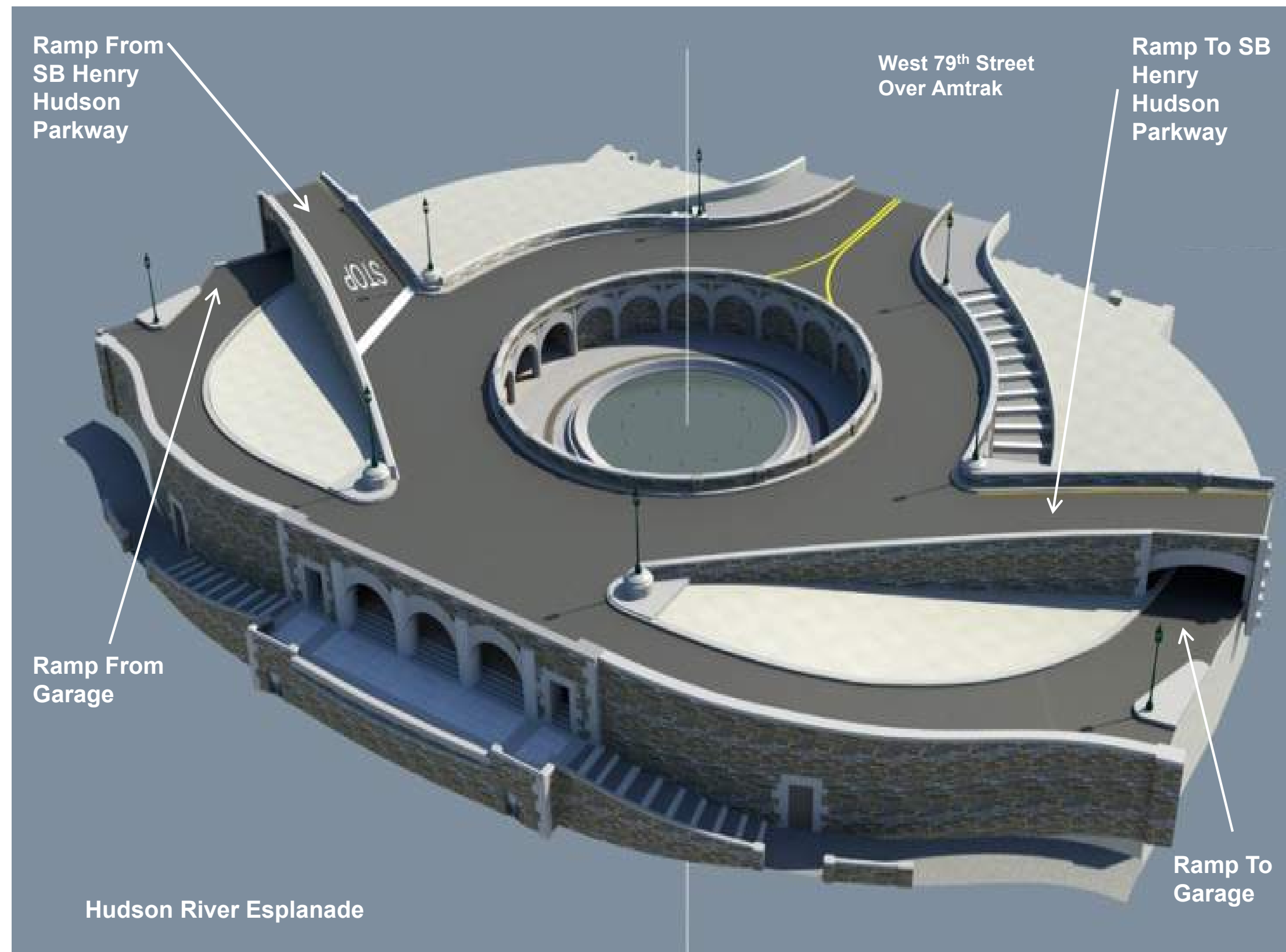
- Provide replica historic handrails on terrace and ramps
- Remove wooden stage and restore fountain
- Repair and restore existing masonry walls
- Restore exterior floor finishes
- Restore Guastavino ceilings and resolve water infiltration
- Provide replica historic lighting within the structure



Traffic Circle Level

Scope of Work

- New roadway concrete deck, steel beams, sidewalks, and approach roadway pavement
- Upgrade lighting for better roadway visibility
- Replace drainage to convey runoff off structure
- Restore stone masonry on existing walls and parapets
- Provide reinforced concrete barrier at traffic circle parapet and improve railing height for cyclists



Existing Conditions

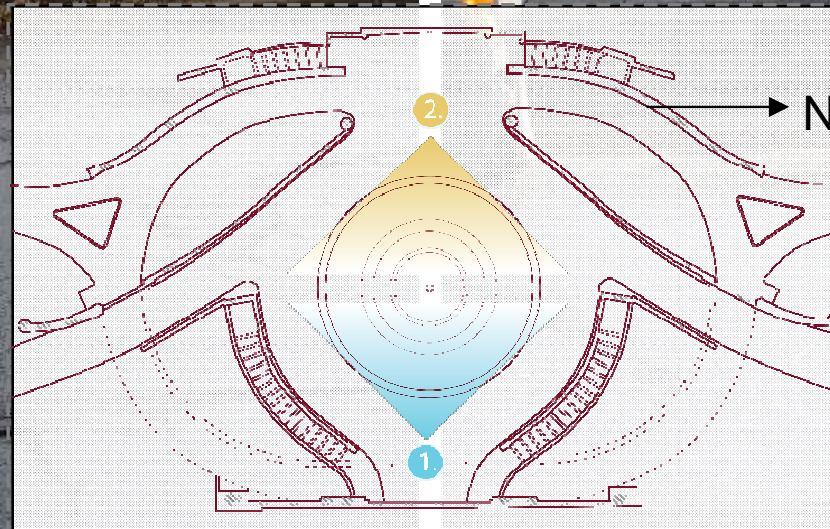
1.



Traffic Rotunda

- Restore parapet wall masonry
- Replace street lighting with NYCDOT *Historic Type F Luminaire and Pole*
- Repair Traffic Rotunda structure and surface
- Reinforced traffic circle parapet and improved railing height for cyclists

2.

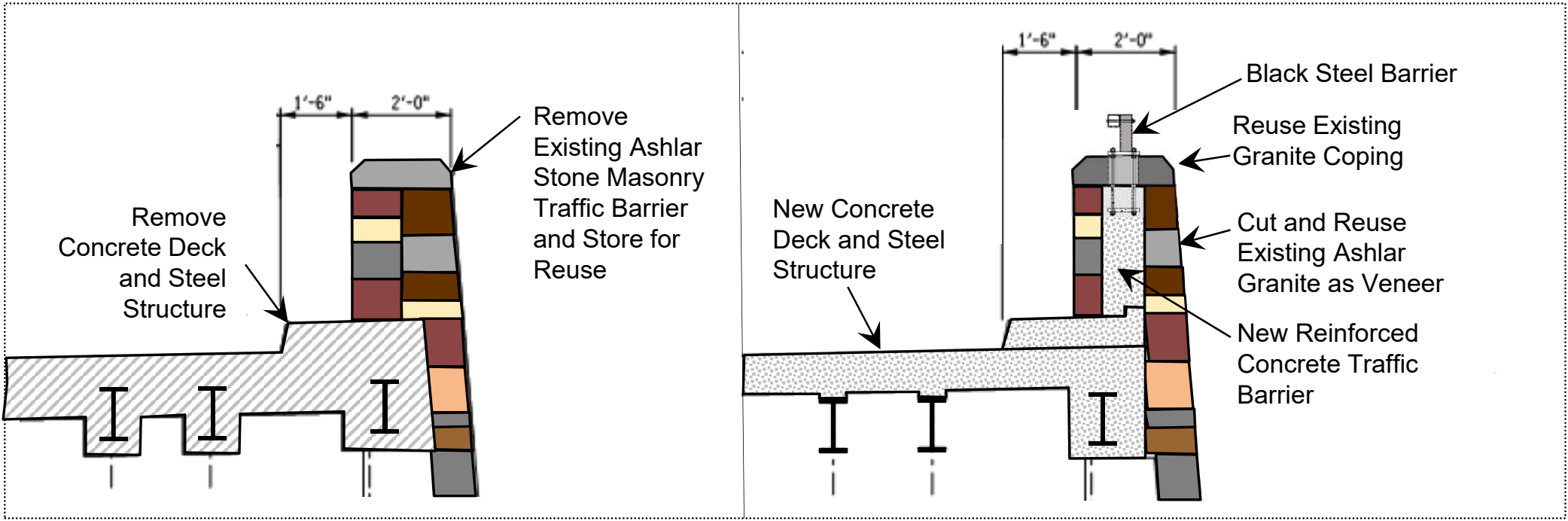


Geometric Design Improvements

- 18' Wide Traffic Circle Lane
- Maintains Operations of Large MTA Articulated Buses
- Improved Stopping Sight Distance at Henry Hudson Parkway Exit
- Encourages Reduced Travel Speeds in the Traffic Circle
- Provides Separation of Vehicles and Bicycles



Roadway Traffic Barrier Improvements

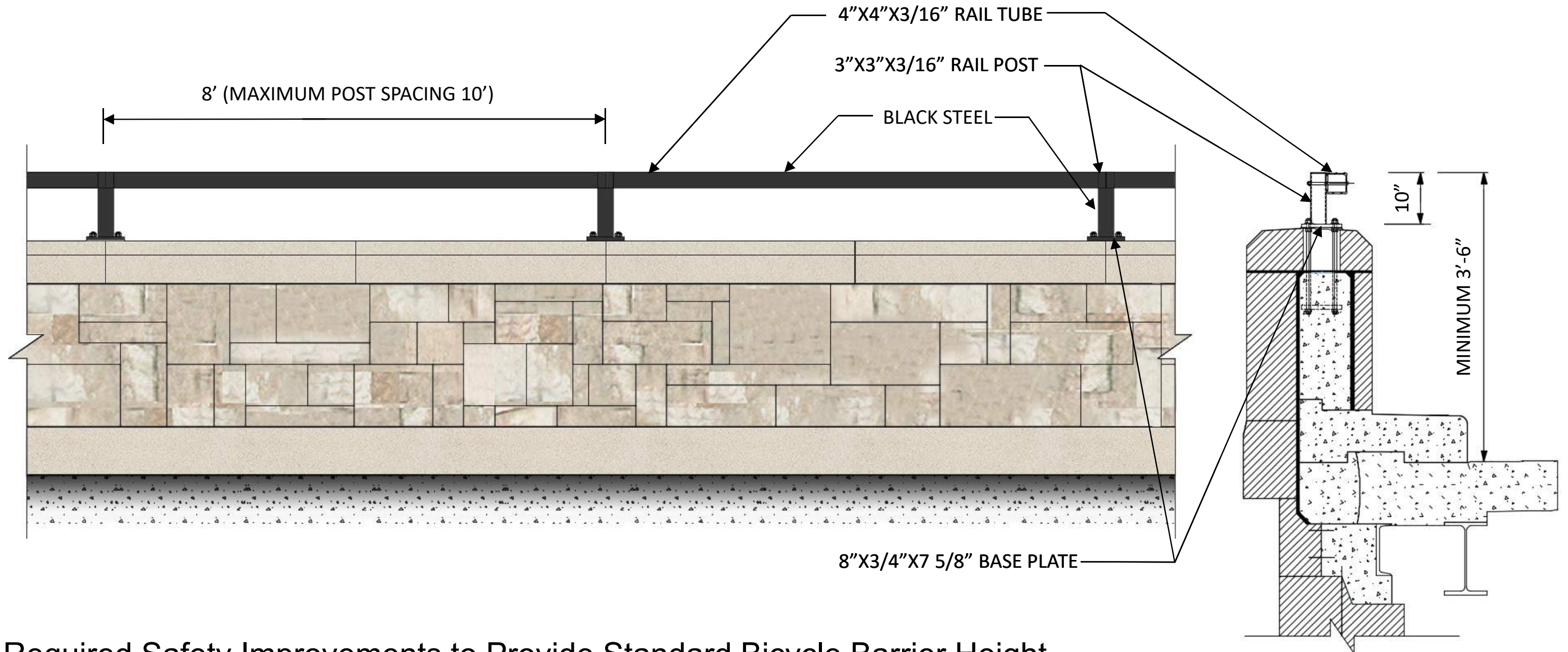


Existing Traffic Circle Light Post to be replaced with NYCDOT *Historic Type F Luminaire*



Existing Traffic Circle Barrier to be reinforced

Roadway Traffic Barrier Improvements



- Required Safety Improvements to Provide Standard Bicycle Barrier Height
- Must Meet NYSDOT Standard Detailing Requirements

Roadway Traffic Barrier Improvements



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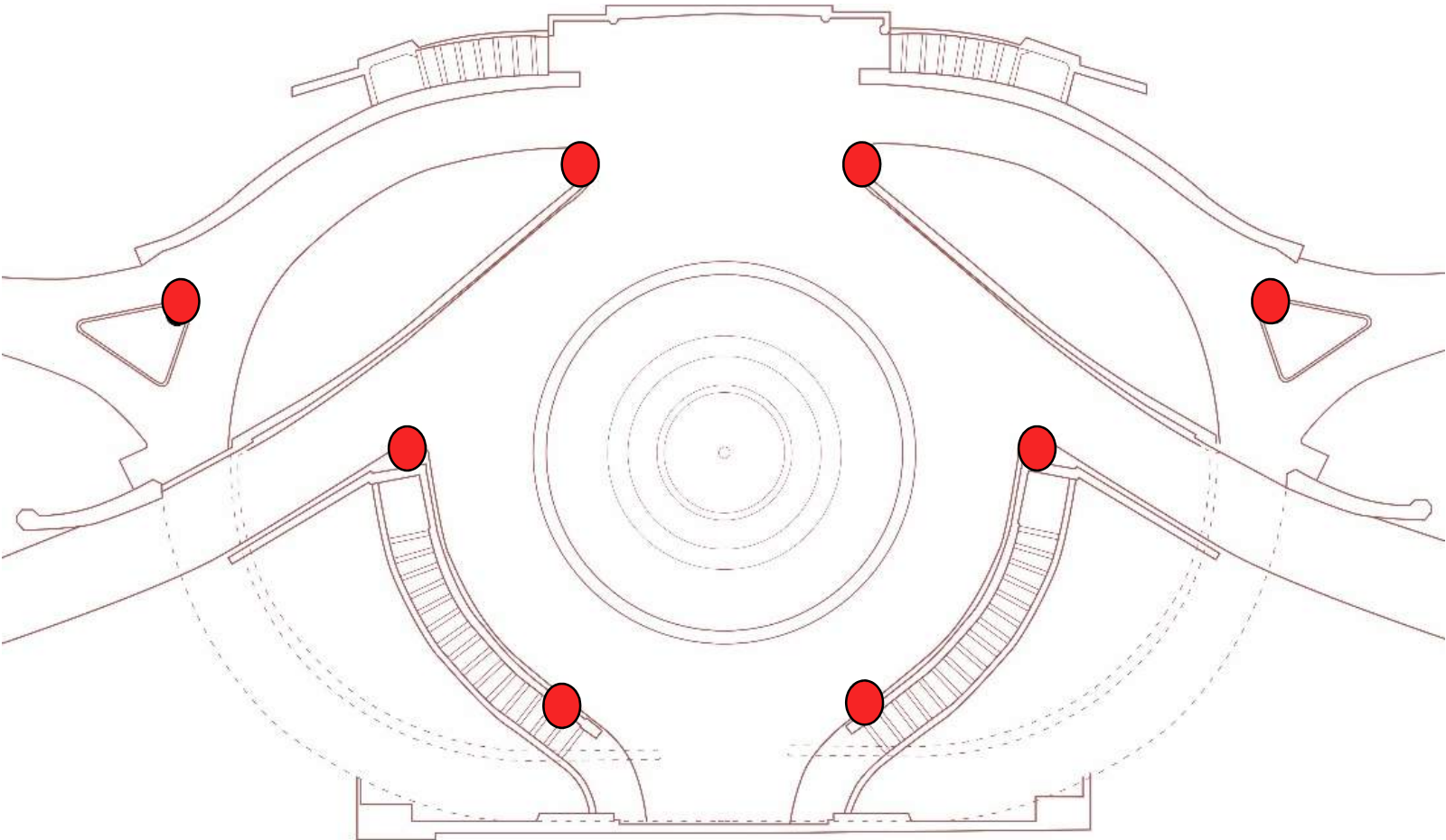
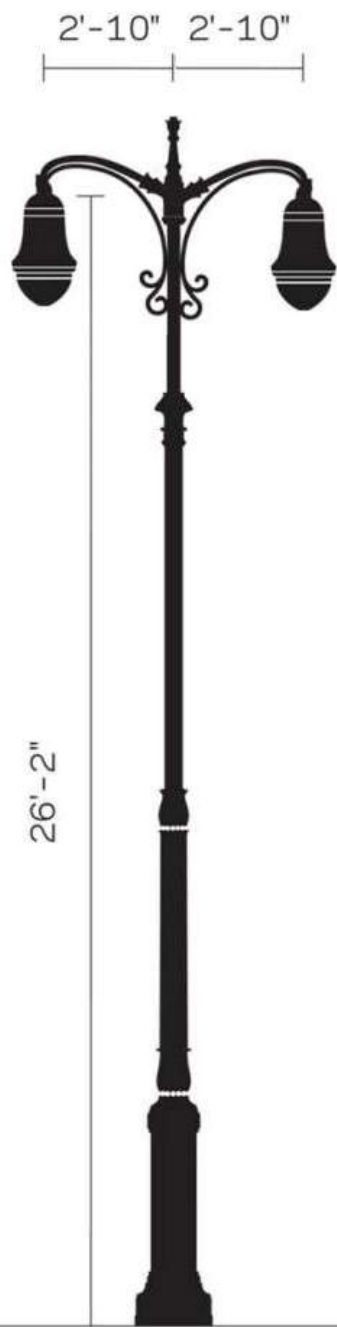
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Rotunda Barrier

Historic Type F Luminaire and Pole

Note: Although not a replication of the original light fixtures, the Type F Luminaire and Pole will be more representative of the era of the original structure



● Historic Type F Luminaire and Pole



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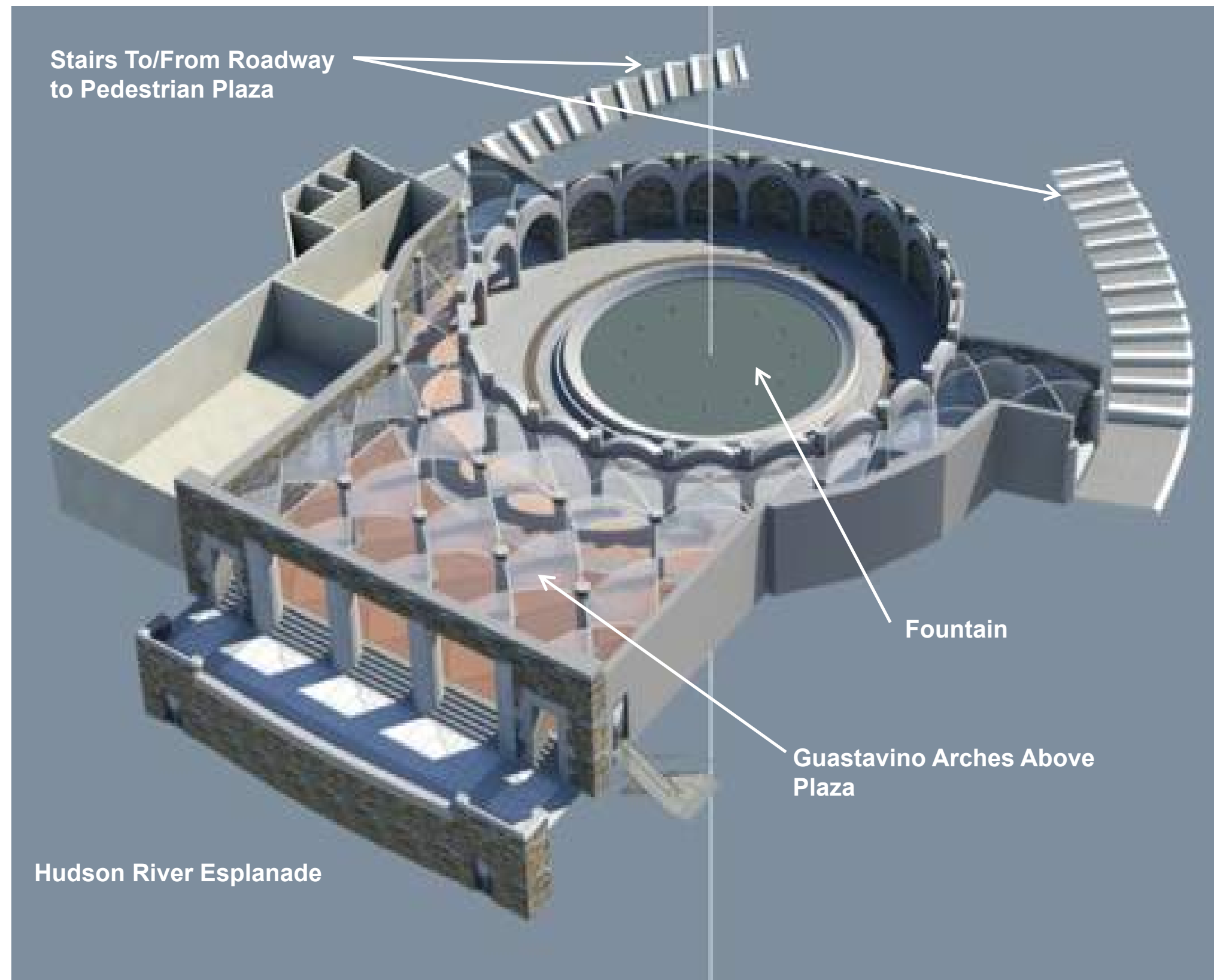
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Historic Type F
Luminaire and Pole

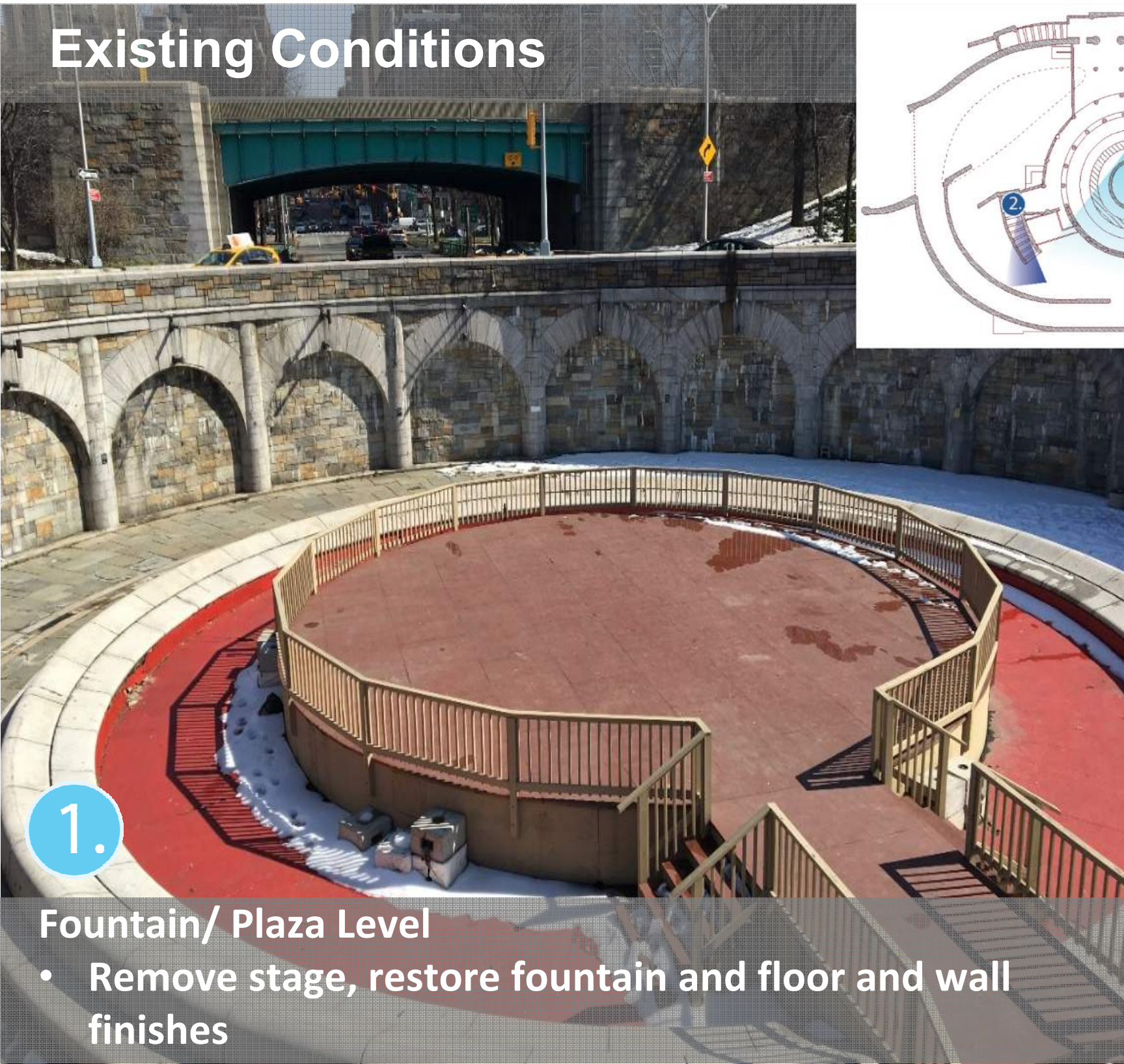
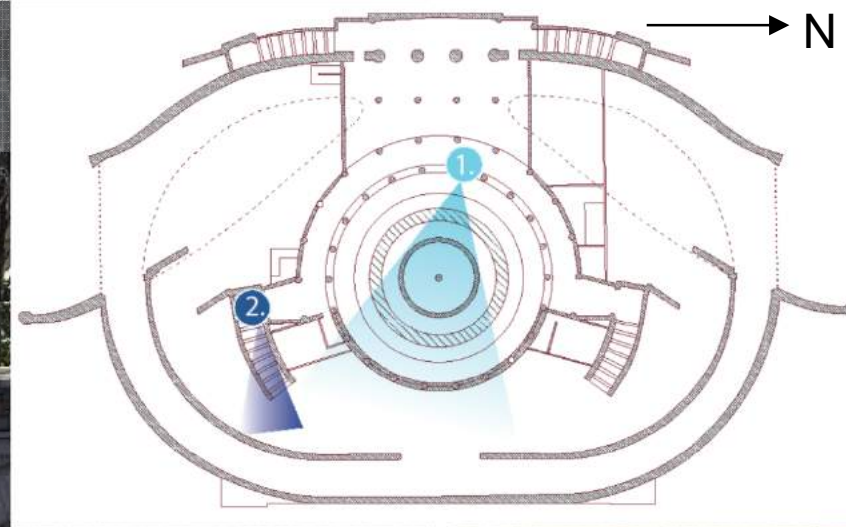
Pedestrian Plaza Level

Scope of Work

- New NYCDPR office space
- Expand concessionaire space / New door opening to concessionaire space
- Profile pedestrian plaza (eliminate 4" step) within rotunda to meet the adjacent elevation for ADA compliance
- Replace current modern iron handrails/guiderrails on terrace with replica historic handrails/guiderrails
- Restore fountain, existing masonry, and Guastavino ceilings
- Repair concrete deck and floor finishes
- Refurbish and upgrade public restrooms
- Restore historic lighting
- Upgrade drainage
- ADA compliant ramp
- Landscaping on North and South side of Rotunda
- ADA compliant ramp connecting pedestrian plaza to terrace level and from terrace level to esplanade level



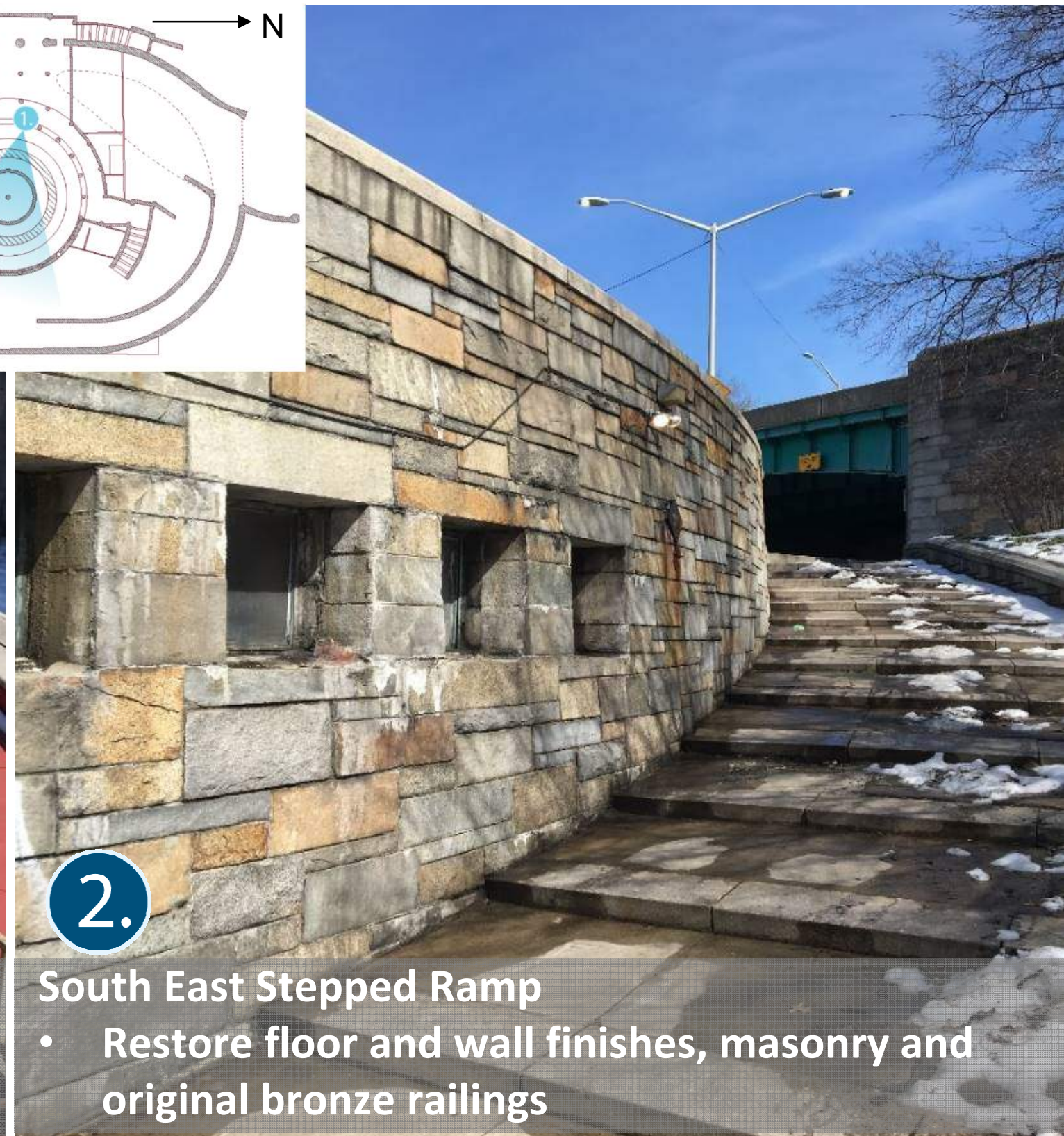
Existing Conditions



1.

Fountain/ Plaza Level

- Remove stage, restore fountain and floor and wall finishes



2.

South East Stepped Ramp

- Restore floor and wall finishes, masonry and original bronze railings



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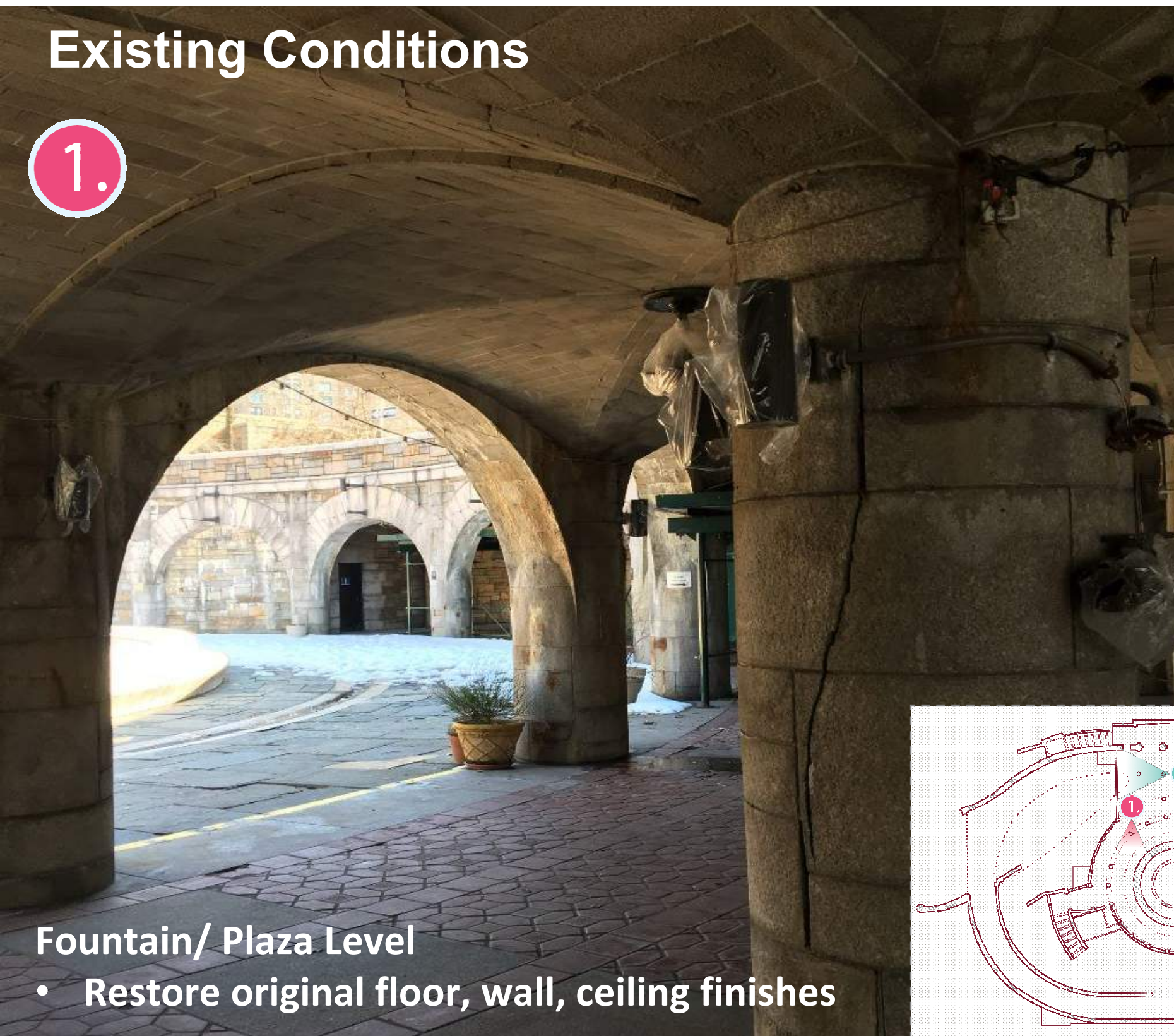
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Existing Conditions
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Existing Conditions

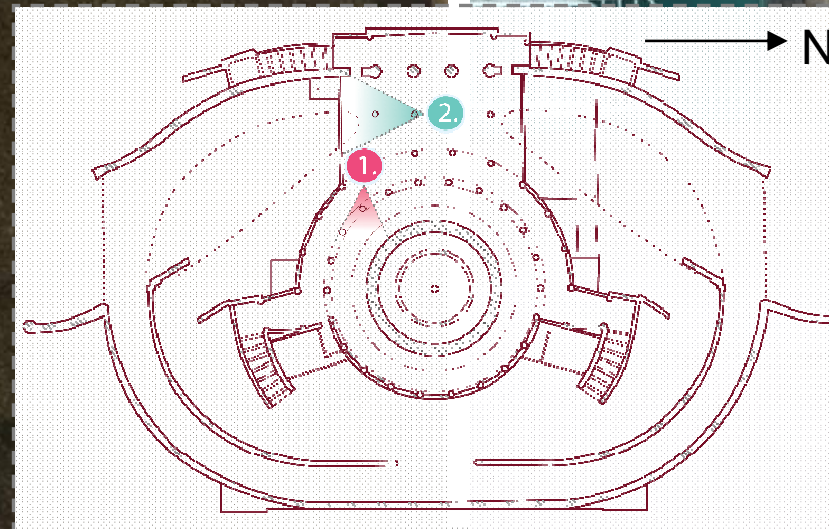
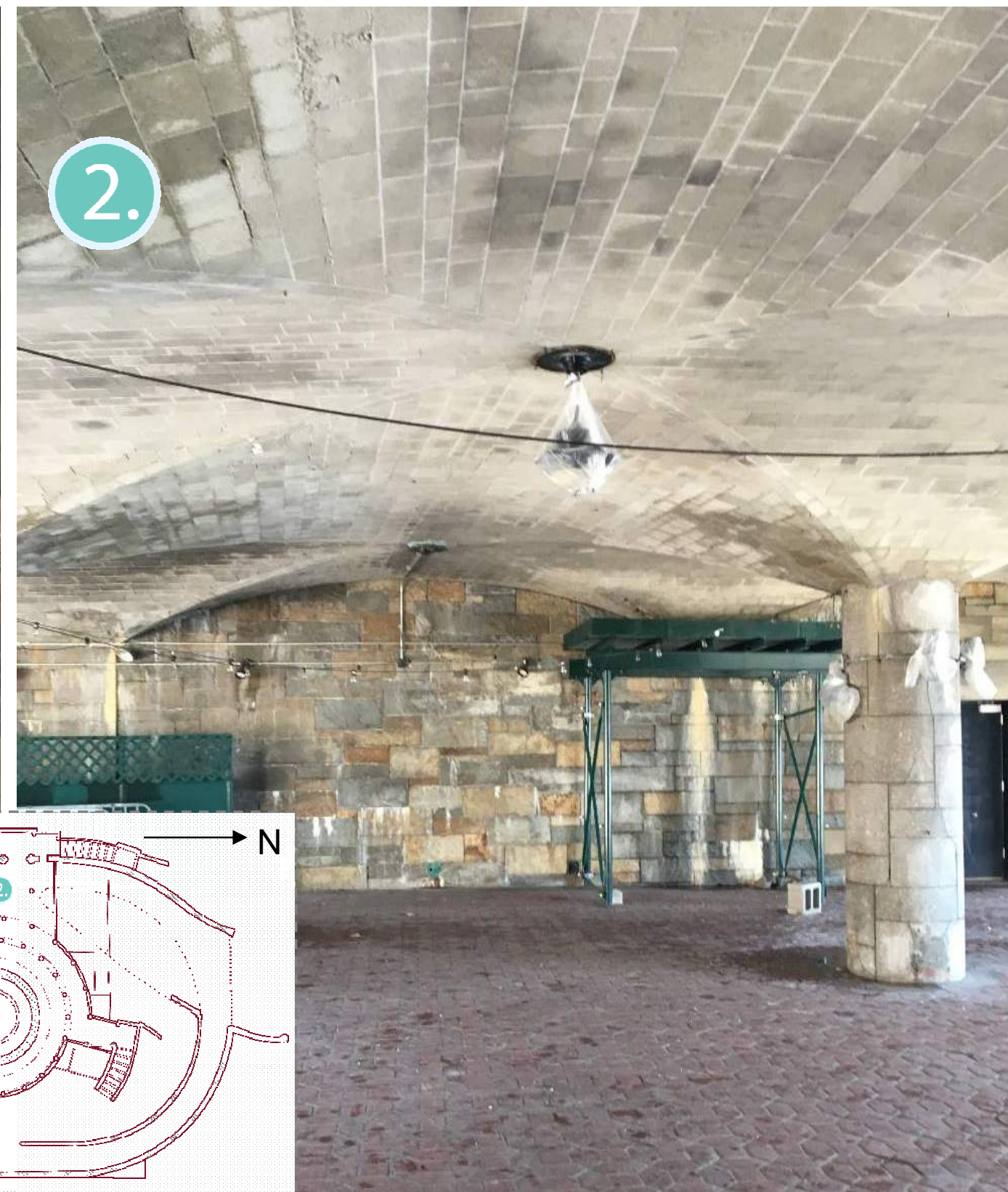
1.



Fountain/ Plaza Level

- Restore original floor, wall, ceiling finishes

2.



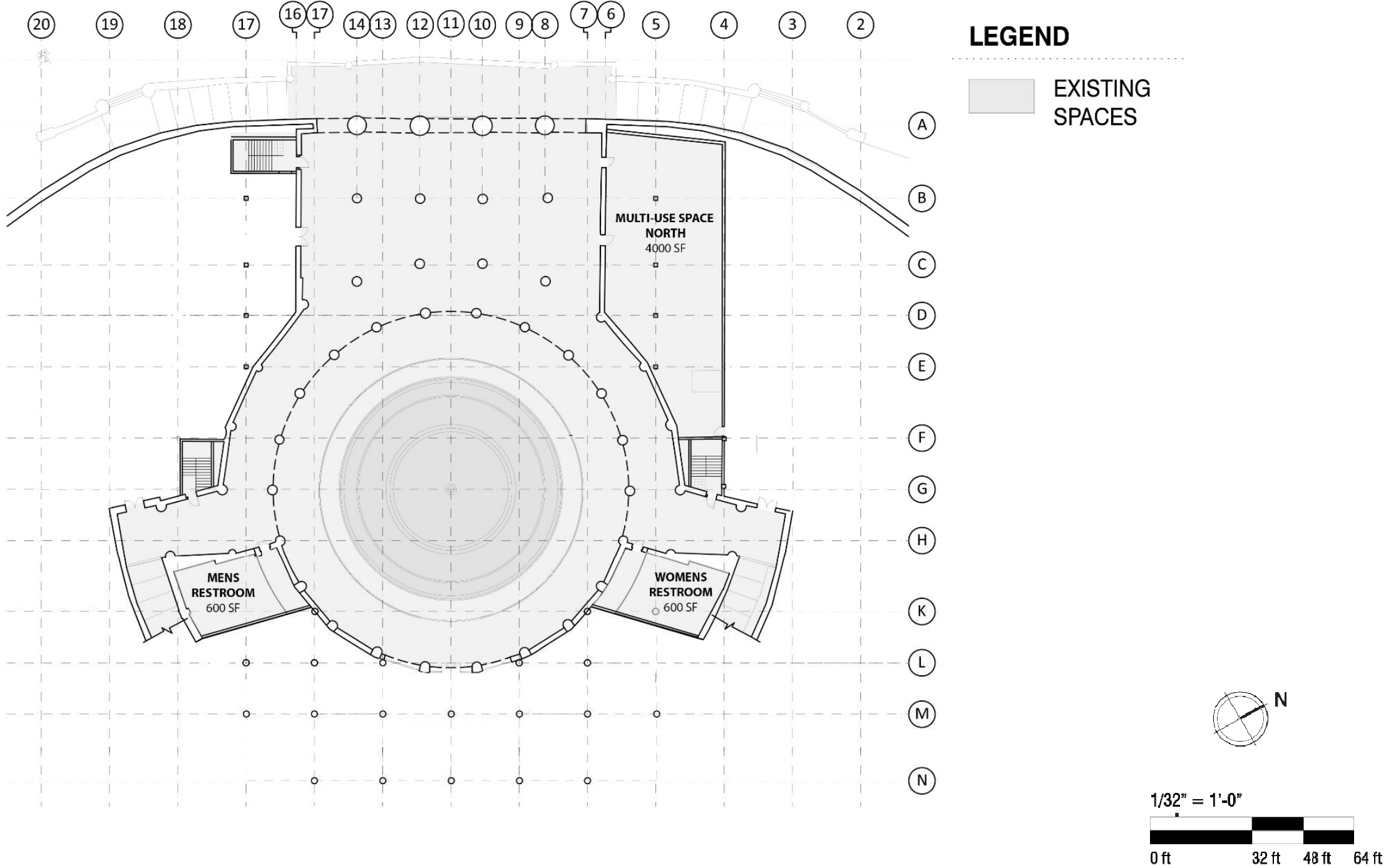
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Existing Plaza Plan



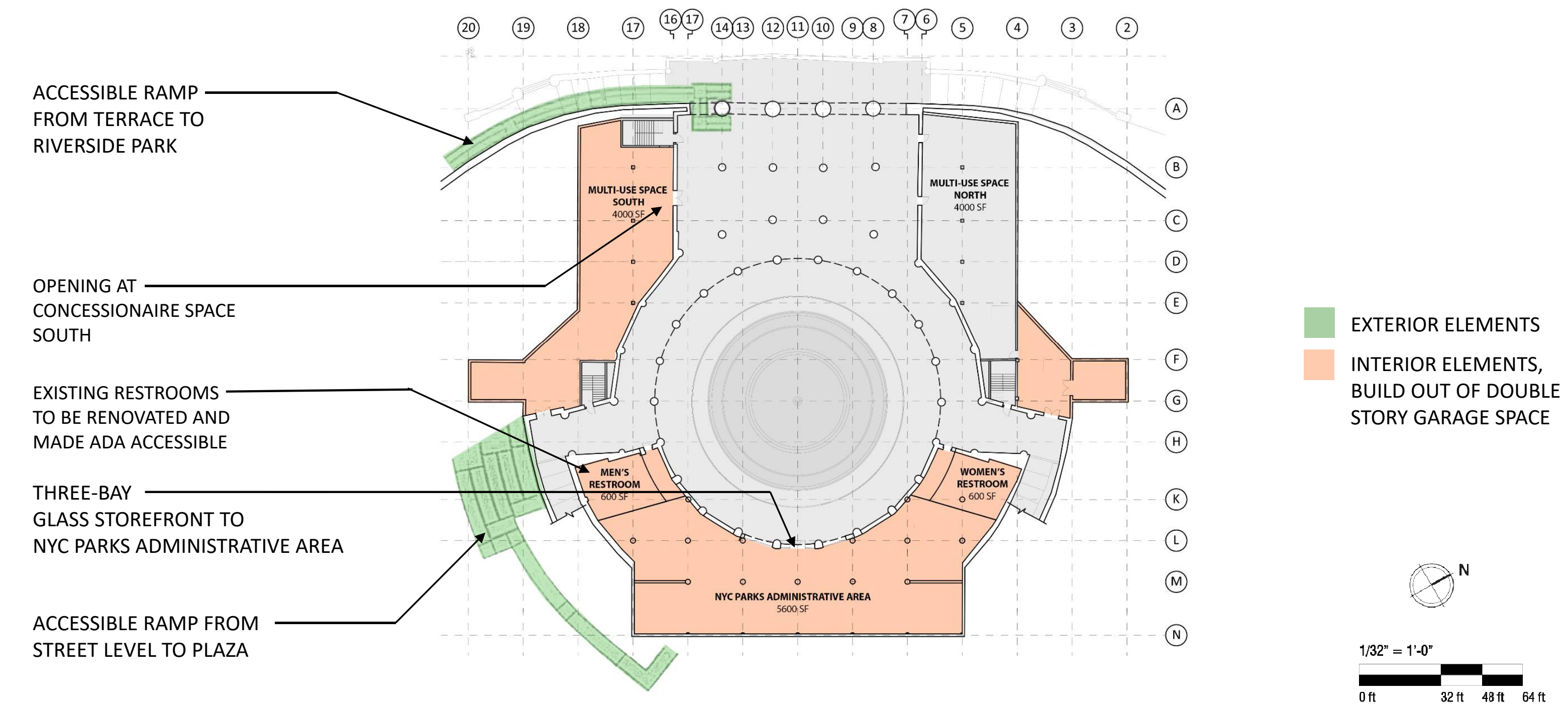
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Existing Plaza Plan

Proposed Plaza Plan Interventions



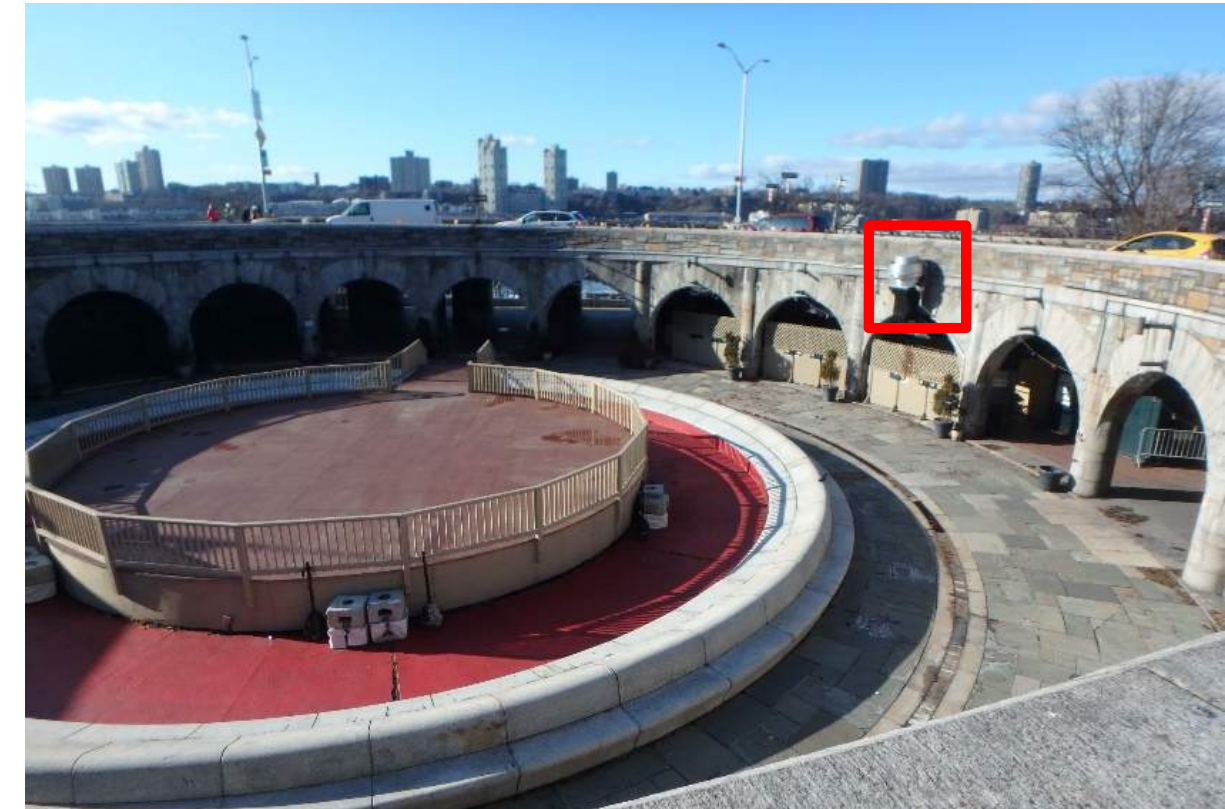
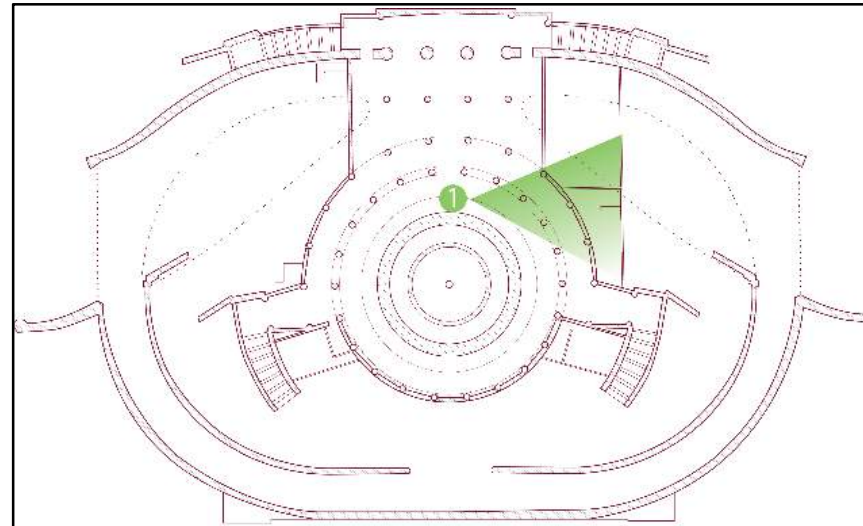
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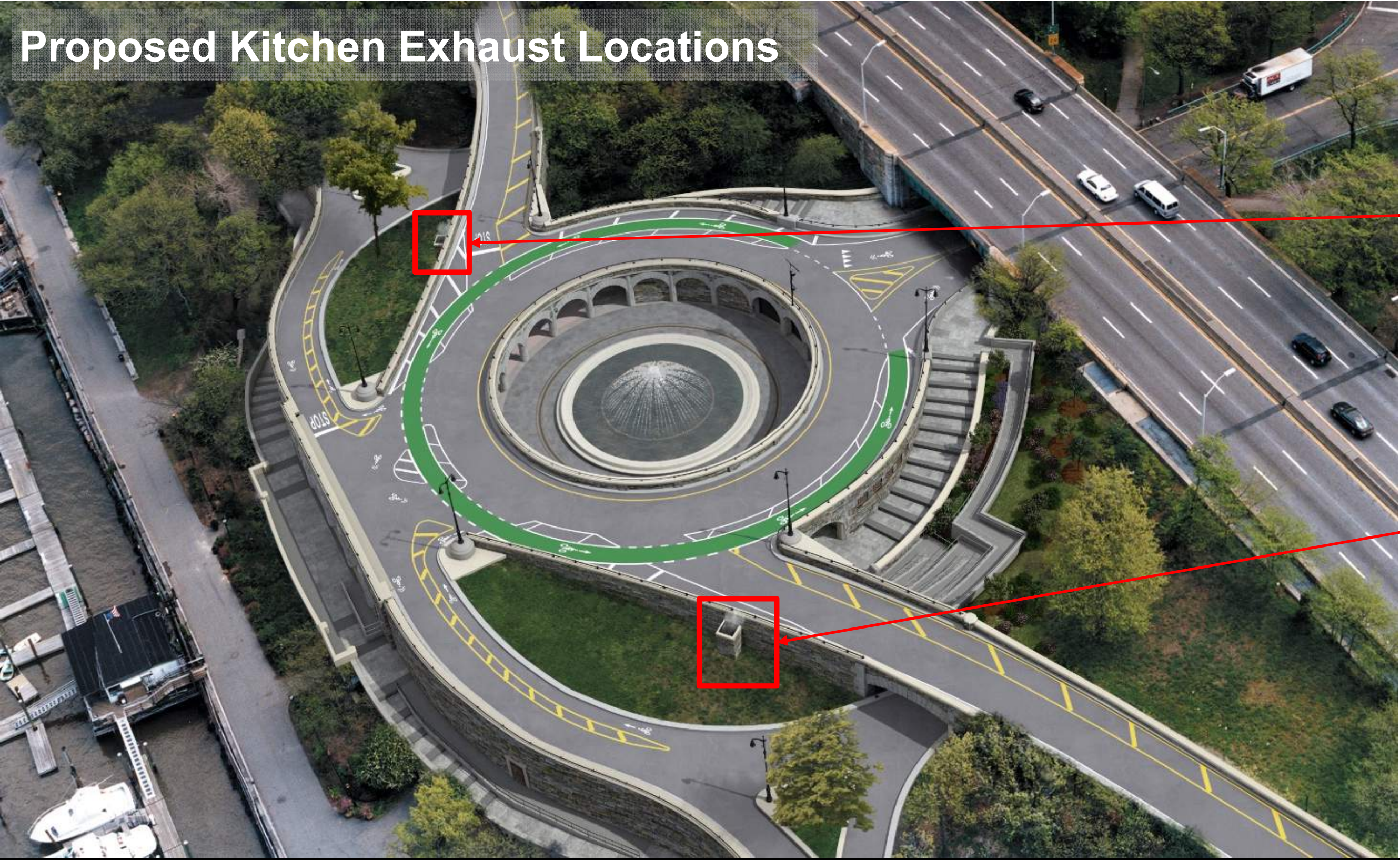
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Plaza Level Plan

Existing Kitchen Exhaust Location



Proposed Kitchen Exhaust Locations



PROPOSED
KITCHEN
EXHAUST
LOCATION 1

PROPOSED
KITCHEN
EXHAUST
LOCATION 2



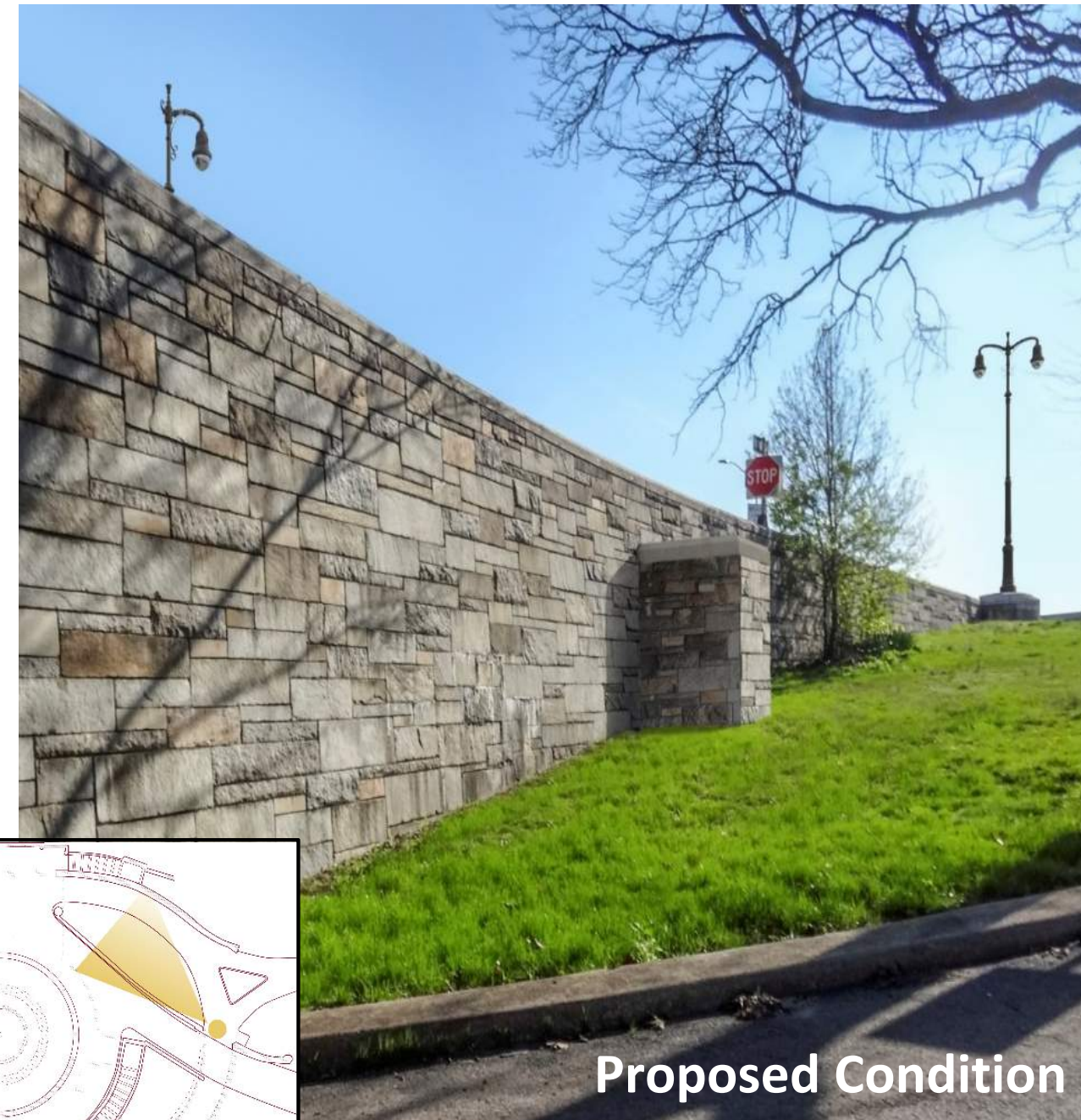
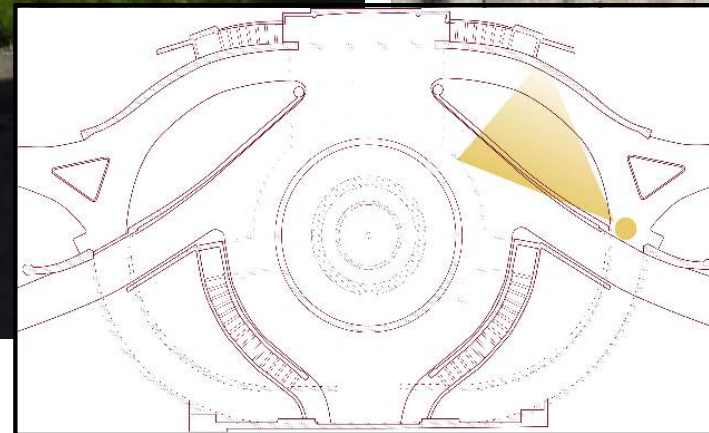
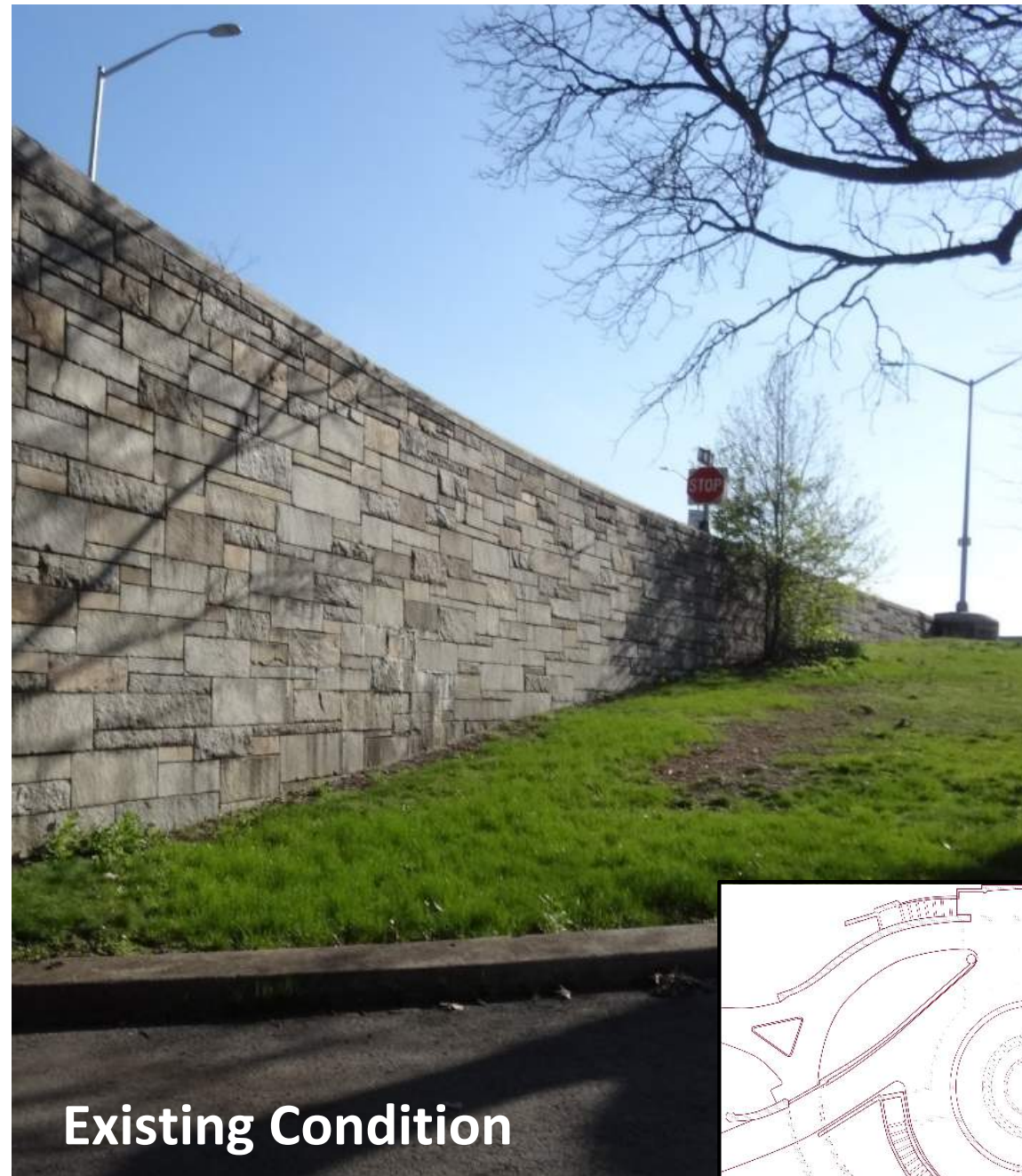
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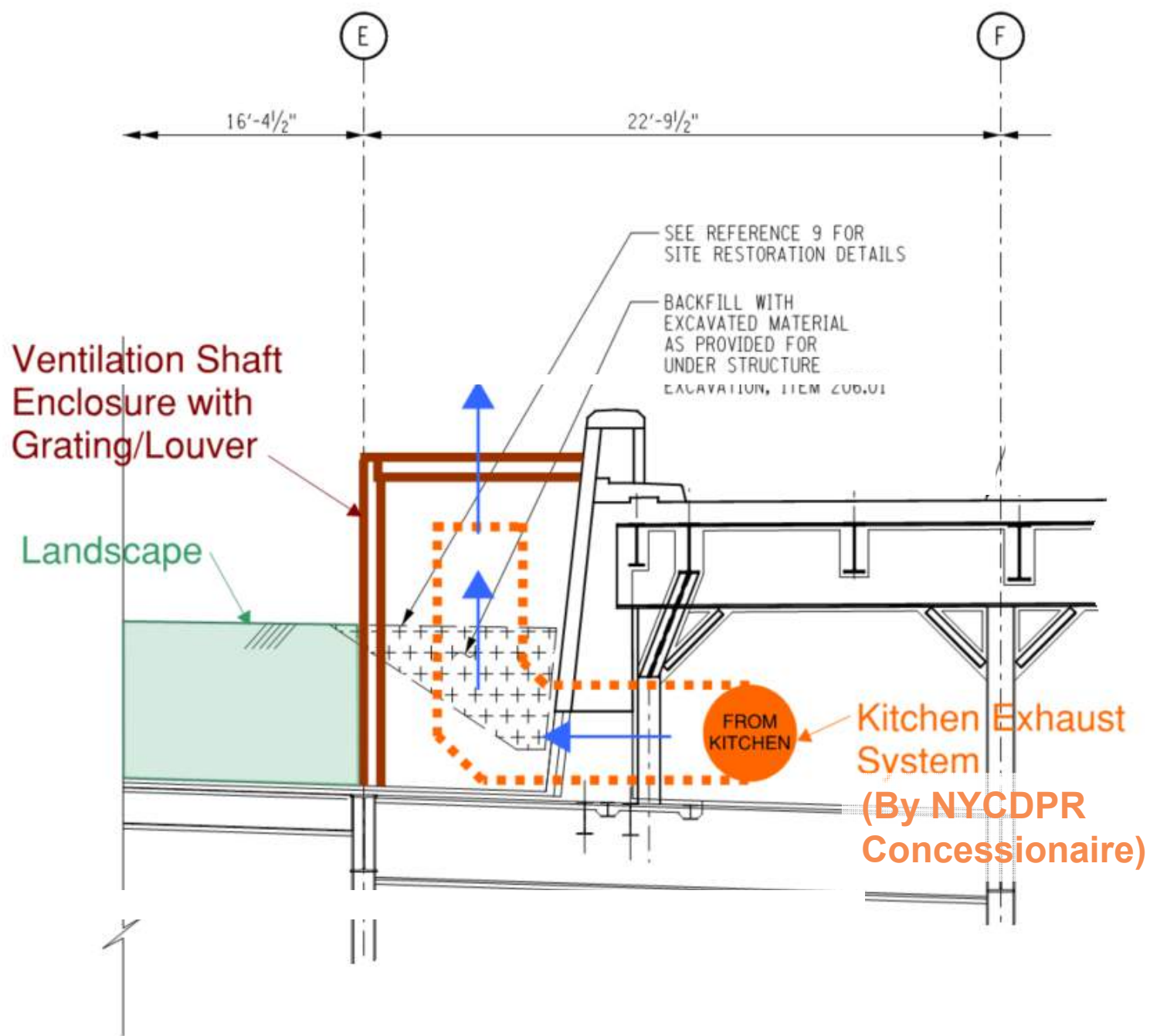
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Proposed Kitchen Exhaust Locations

- Designed for North and South NYCDPR Spaces to provide flexibility for NYCDPR Operations
- Maintains symmetry (same condition on opposite side)
- NYC Building Code Compliant
- Minimally invasive structural modifications
- Reuse of existing stonework to blend with existing structure
- This project will provide the shaft enclosure, NYCDPR's concessionaire to provide the internal ventilation system at a later date



Proposed Kitchen Exhaust Locations



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Proposed Kitchen
Exhaust Locations

Existing Southeast Stepped Ramp (Street to Plaza)



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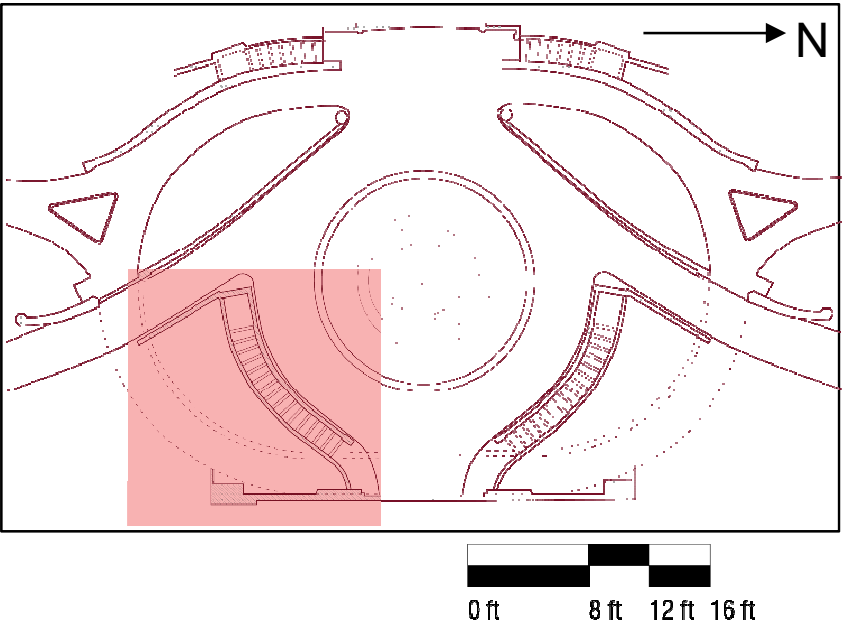
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Existing Southeast Stepped Ramp (Street to Plaza)



NOTES:

- 1. The south planting area was chosen for the location of an accessible ramp due to the existing accessible infrastructure located along the south side of West 79th Street.
- 2. Landscape and vegetation will be re-graded and restored to accommodate proposed accessible ramp.
- 3. Tree and shrub locations are based on survey information. All locations shall be field verified. Tree assessment to be coordinated with NYCDPR forestry to determine tree health and potential restitution costs.
- 4. Landscape Plan still in development, final plan to be approved by NYC Department of Parks and Recreation.



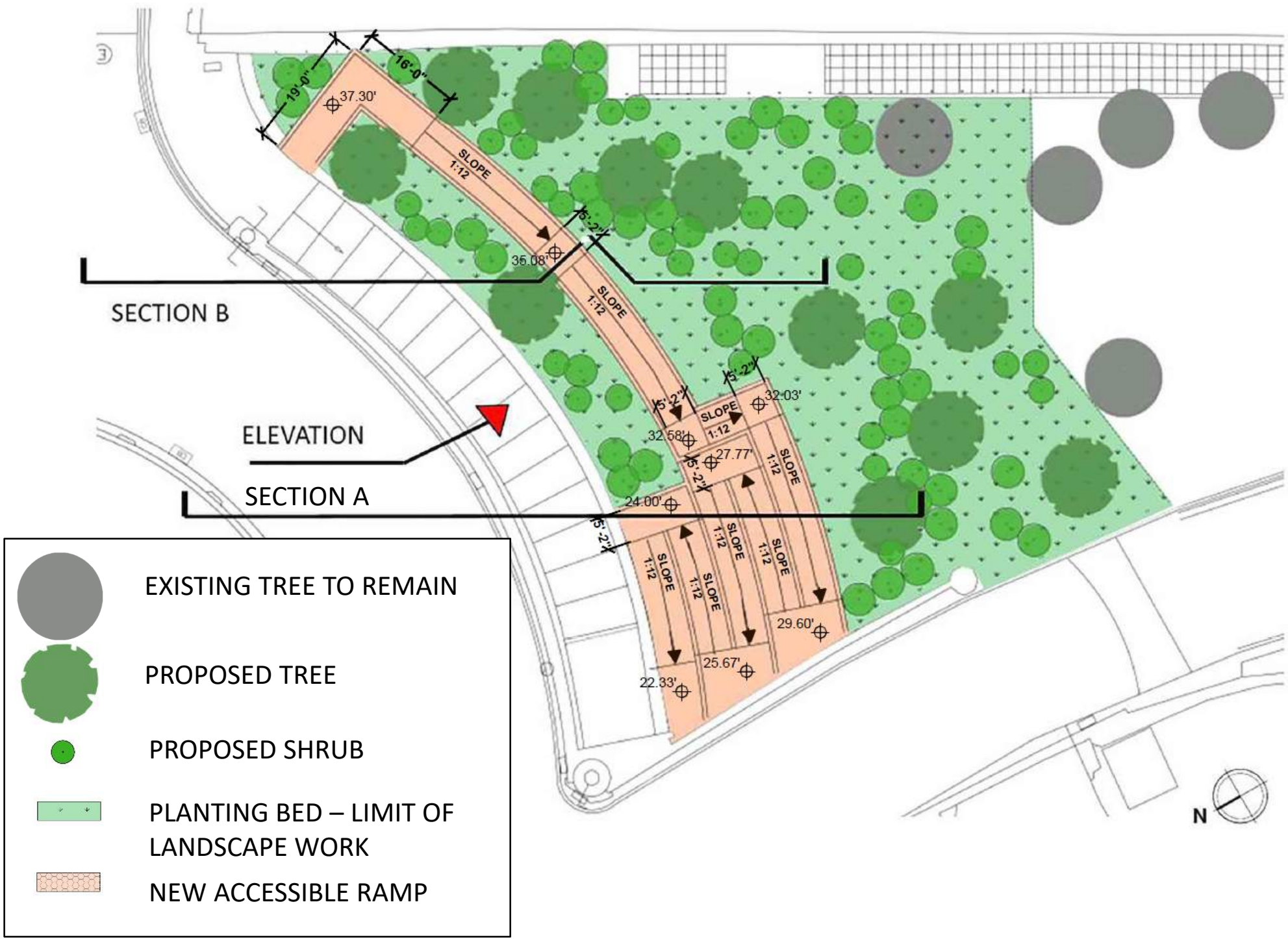
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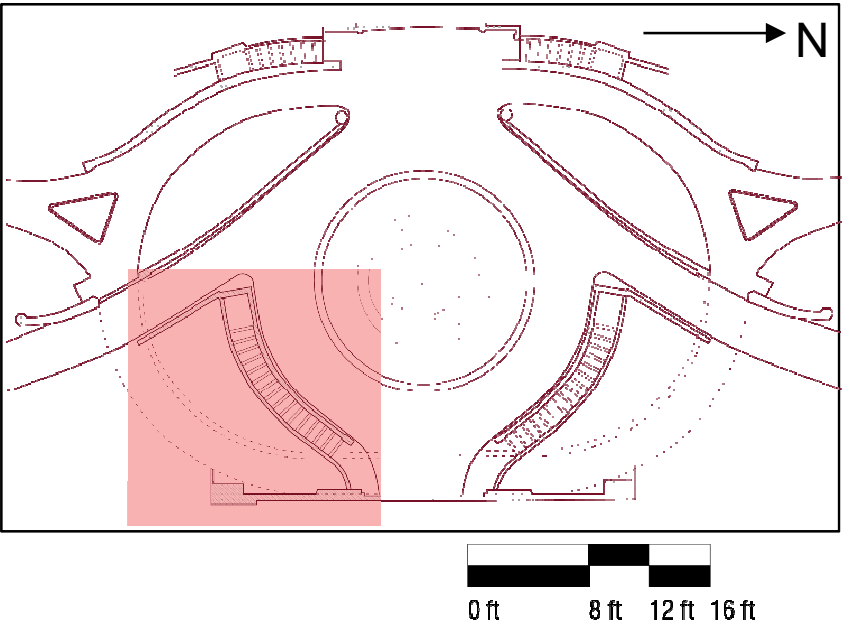
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Existing Southeast Stair
from Street to Plaza Level

Proposed Accessible Ramp Option (Street to Plaza) and Landscape Plan



- NOTES:**
1. The ramp design was carefully studied to provide accessibility with minimal impact to the historic design.
 2. Drainage and irrigation will be modified to accommodate proposed layout.
 3. Landscape Plan still in development, final plan to be approved by NYC Department of Parks and Recreation.



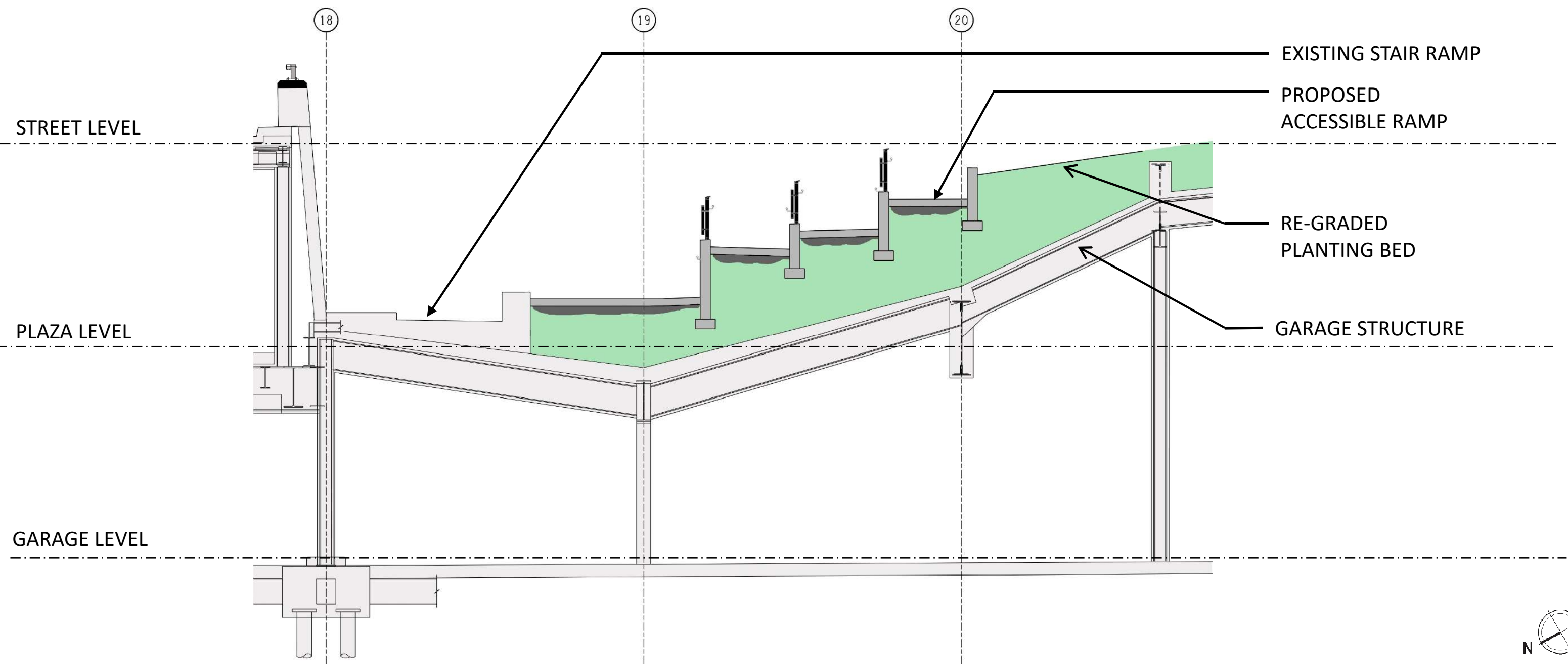
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Proposed Accessible Ramp (Street to Plaza) and Landscape

Section A

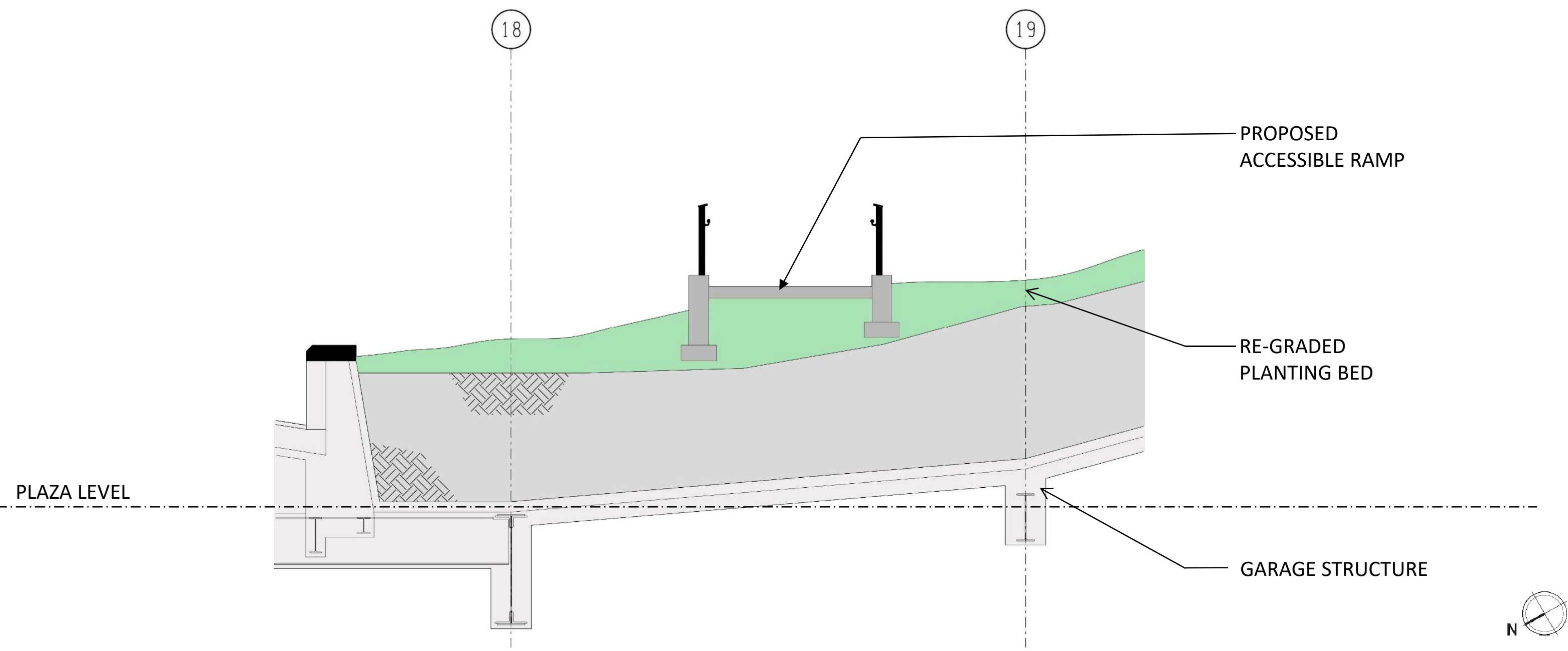


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Proposed Accessible Ramp (Street to Plaza) and Landscape Section B

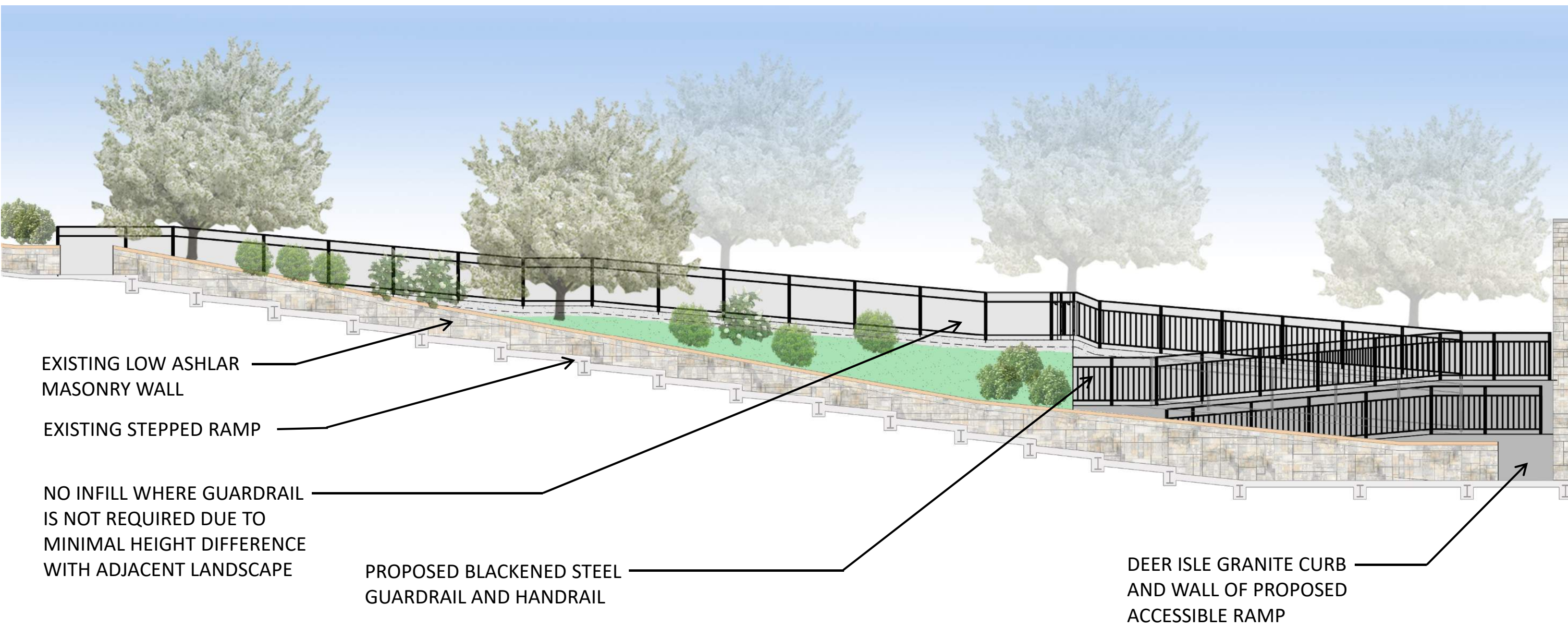


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Proposed Accessible Ramp (Street to Plaza) and Landscape Elevation

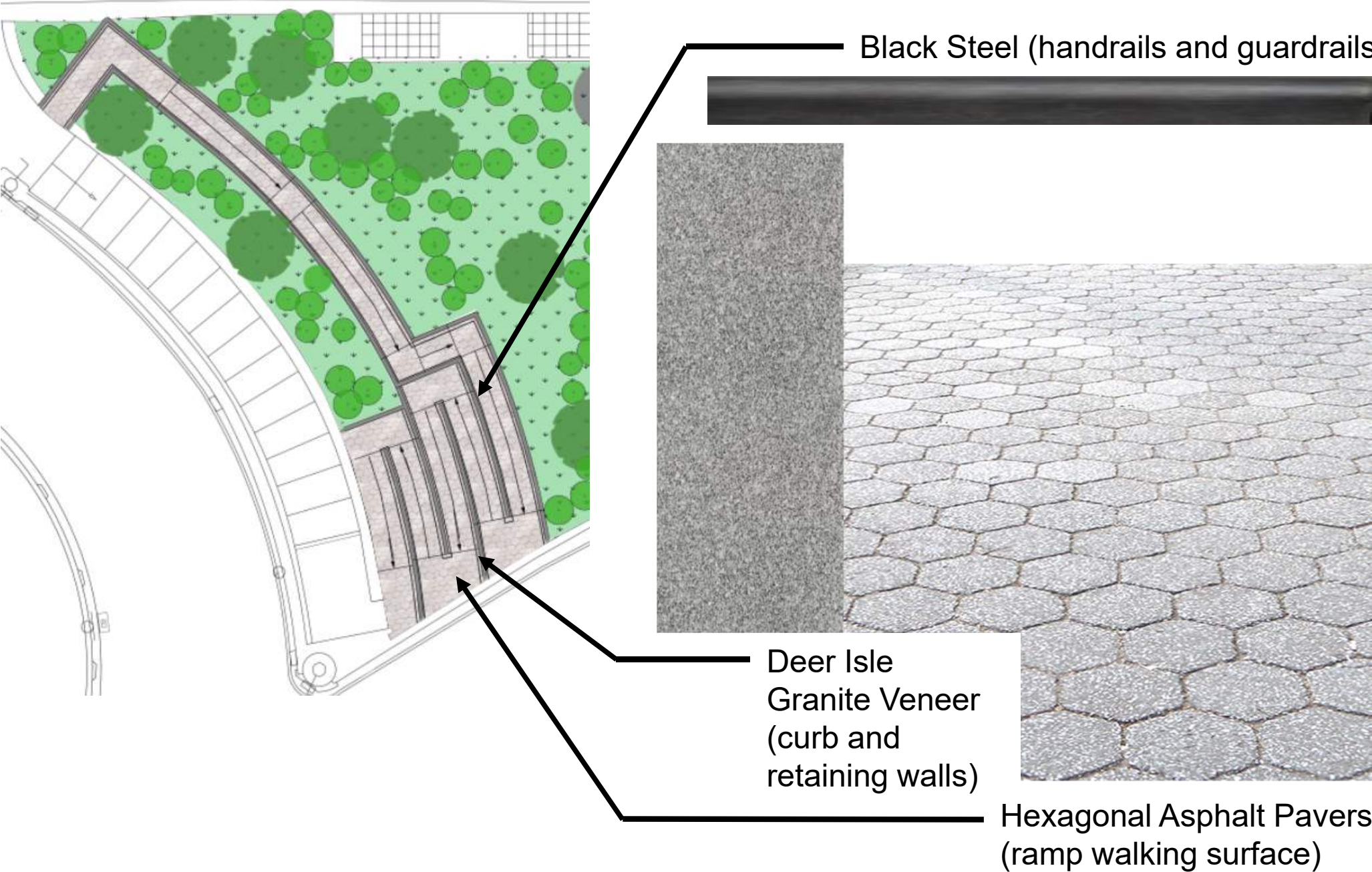


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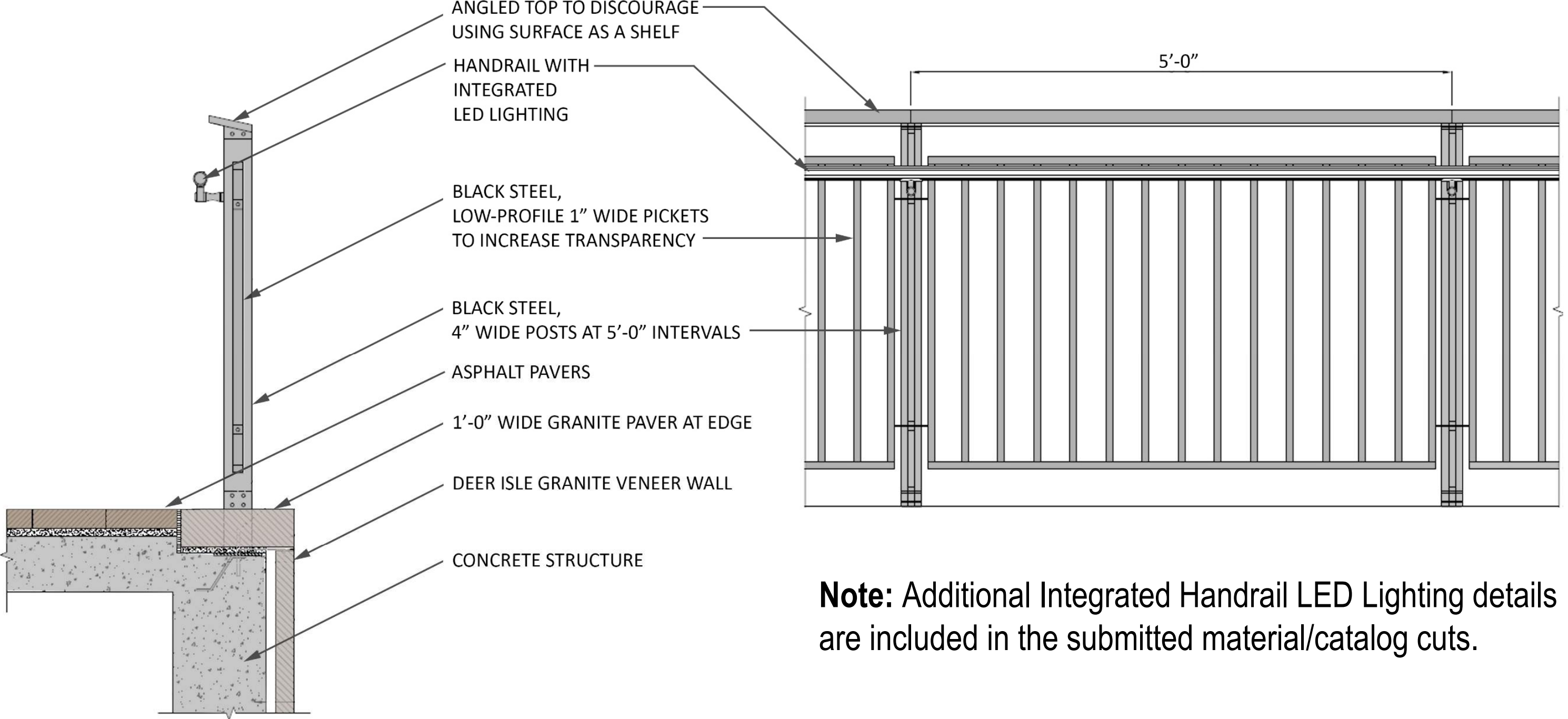
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New Materials Palette: Asphalt Pavers, Deer Isle Granite, Blackened Steel








Precedent image: Hexagonal Asphalt Pavers are commonly used in NYC Parks.

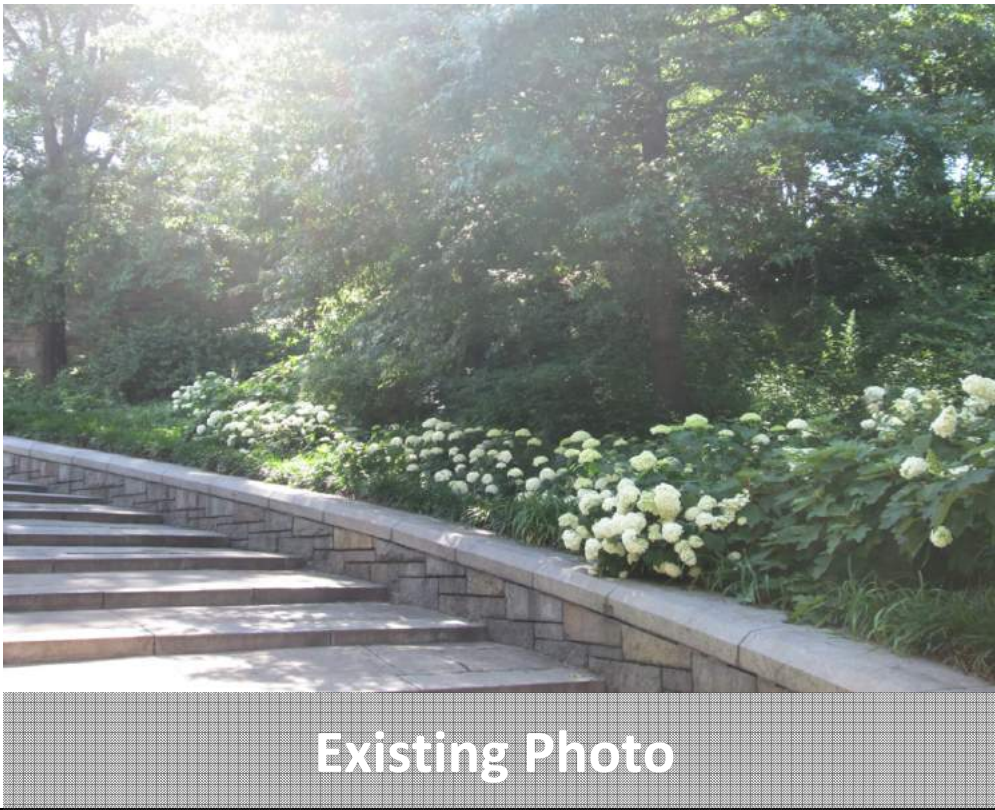
New Materials: Handrails and Guardrails







Proposed Plant Palette

The proposed accessible ramp will require re-grading and plant removal. A study of existing plant species located in this section of the structure will be utilized to determine the type and location of new plantings.

SHRUBS				
				
<i>Hydrangea arborescens</i> "Annabelle" Smooth Hydrangea 3' - 5' h, 4' - 6'w	<i>Hydrangea quercifolia</i> 'Snow queen' Oak Leaf Hydrangea 4' - 6' h, 5' - 6'w	<i>Viburnum carlesii</i> Koreanspice viburnum 4' - 6' h, 4' - 7' w	<i>Viburnum x rhytidophylloides</i> 'Alleghany' Lantanaphyllum viburnum 8' - 10' h, 8' - 10' w	<i>Ilex crenata</i> 'Helleri' Japanese holly 2' - 4' h, 3' -5' w



TREES			
			
<i>Gleditsia triacanthos</i> var. <i>inermis</i> Honey Locust 60' - 80' h, 60' - 80' w	<i>Quercus bicolor</i> Swamp White Oak 50' - 60' h, 50' - 60' w	<i>Quercus rubra</i> Red Oak 50' - 75' h, 50' - 75' w	<i>Malus x 'Snowdrift'</i> Snowdrift Crabapple 15' - 20' h, 15' - 20' w








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Proposed Plant Palette (continued)

PERENNIALS				
				
<i>Anemone Canadensis</i>	<i>Aquilegia Canadensis</i>	<i>Aster cordifolius</i>	<i>Aster divarcatius</i>	<i>Rudbeckia triloba</i>
Canadian anemone	Columbine	Blue wood aster	White wood aster	Three lobed coneflower
1' - 1.5' h, 1' - 1.5' w	2' - 3' h, 1' - 1.5' w	2' - 3' h, 2' - 3' w	2' - 3' h, 2' - 4' w	2' -3' h, 12' - 18' w

GROUNDCOVERS				
				
<i>Carex appalachica</i>	<i>Carex pennsylvanica</i>	<i>Heuchera Americana</i>	<i>Liriope muscari</i>	<i>Polystichum acrostichoides</i>
Appalachian sedge	Oak Sedge	Hairy alum root	Lilyturf	Christsmas fern
1 h, 8" w	1' h, 1' w	1.5' h, 1.5' w	1' - 1.5' h, 1' w	1' - 1.5' h, 1' - 1.5' w

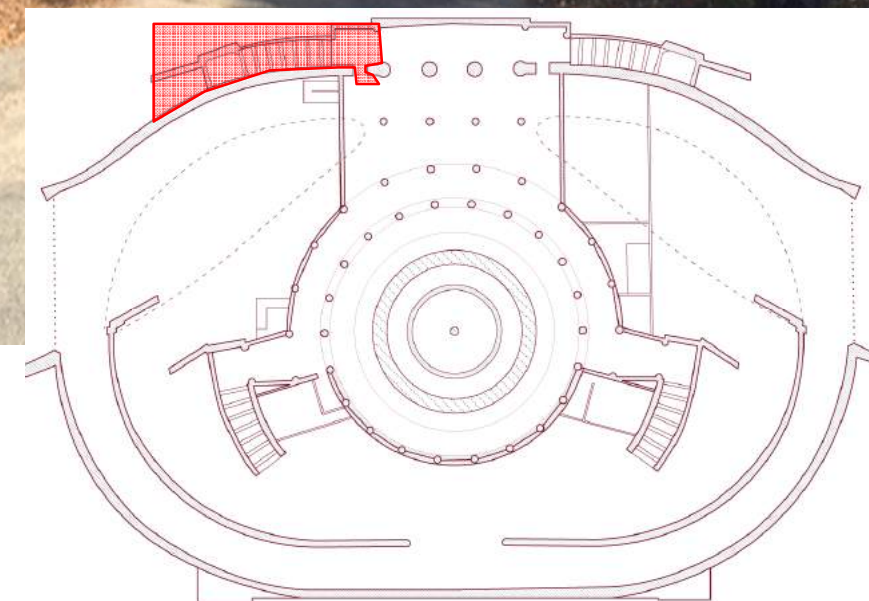
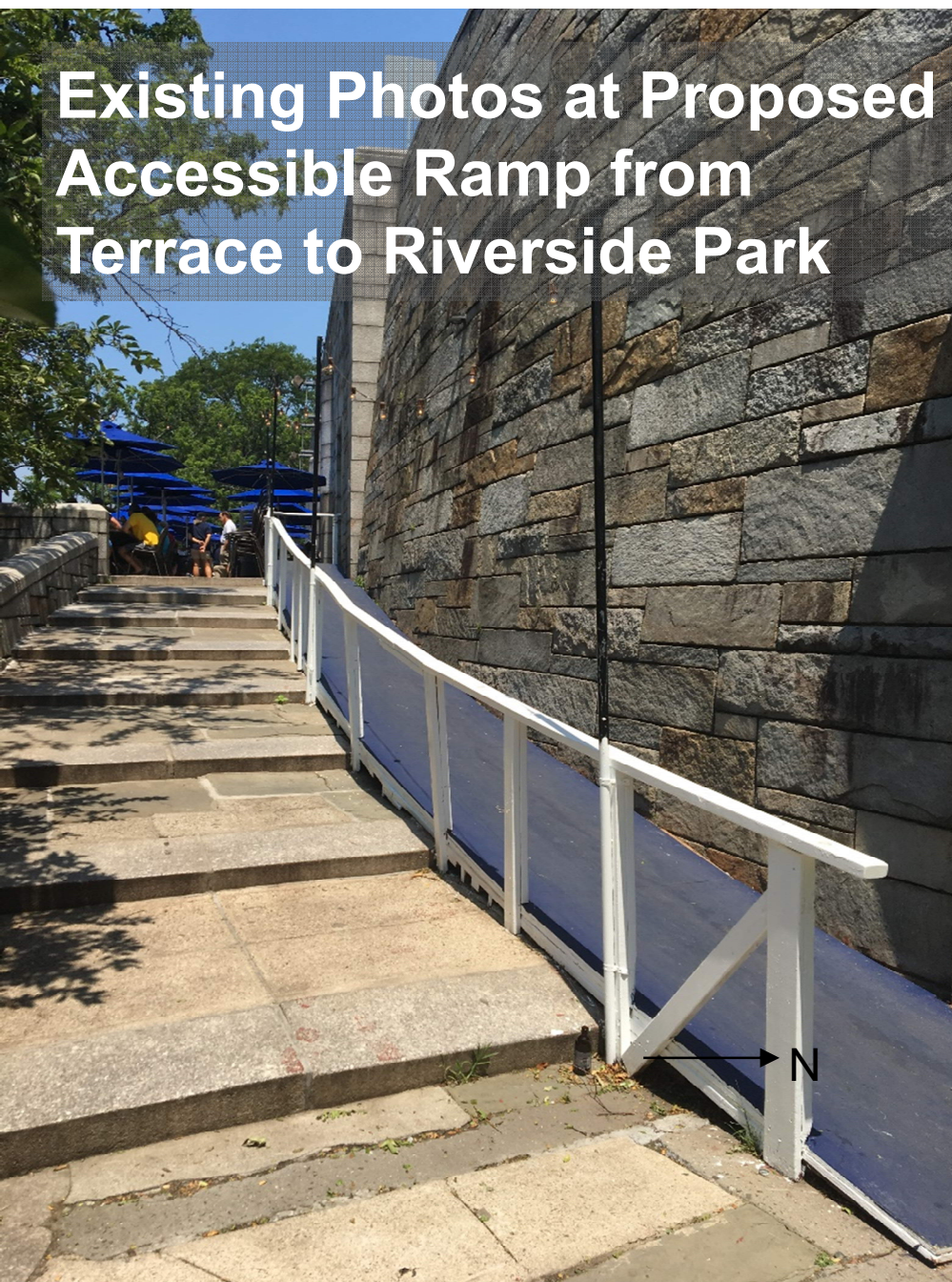


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Existing Photos at Proposed Accessible Ramp from Terrace to Riverside Park



Note: From the Hudson River Esplanade, existing trees will reduce visual impact of the new ramp on the historic structure.



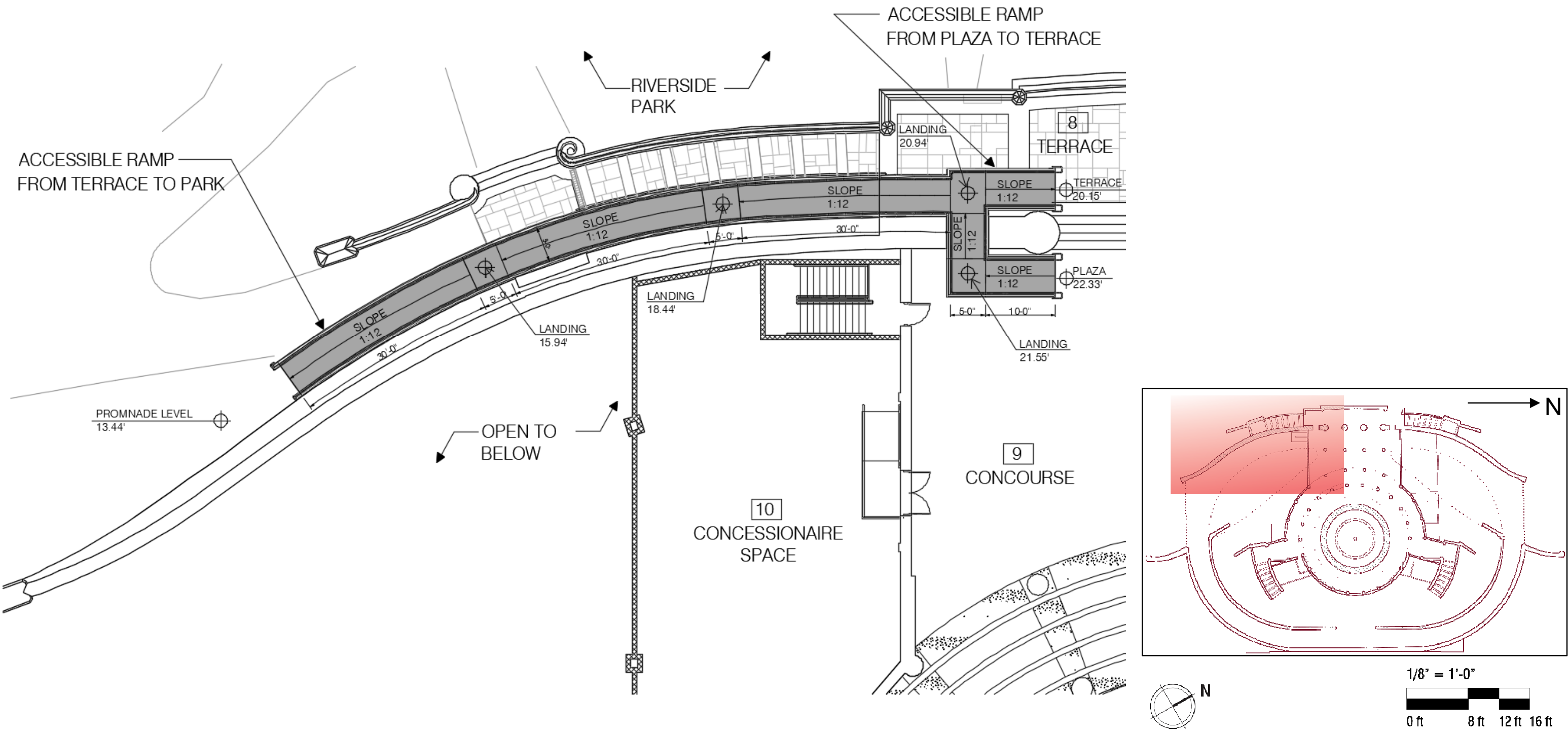
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Accessible Ramp from
Terrace to Riverside Park

Proposed Accessible Ramp from Terrace to Riverside Park



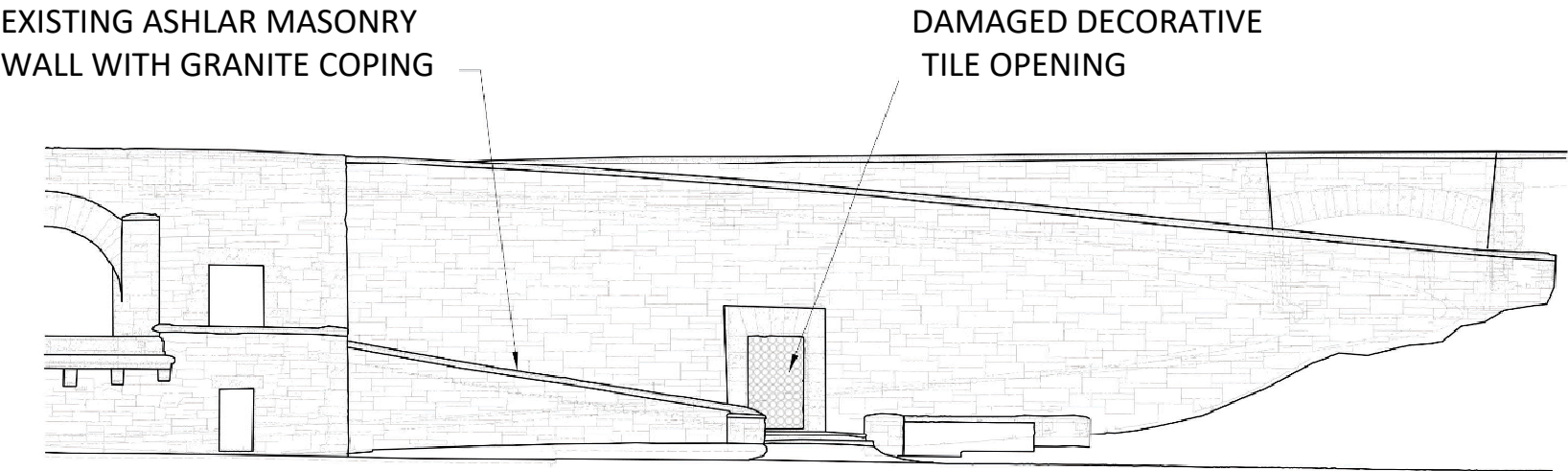
City of New York
Department of Transportation
Department of Parks and Recreation

Rehabilitation of the West 79th Street Rotunda
Complex And West 79th Street Bridge over Amtrak
June 2019

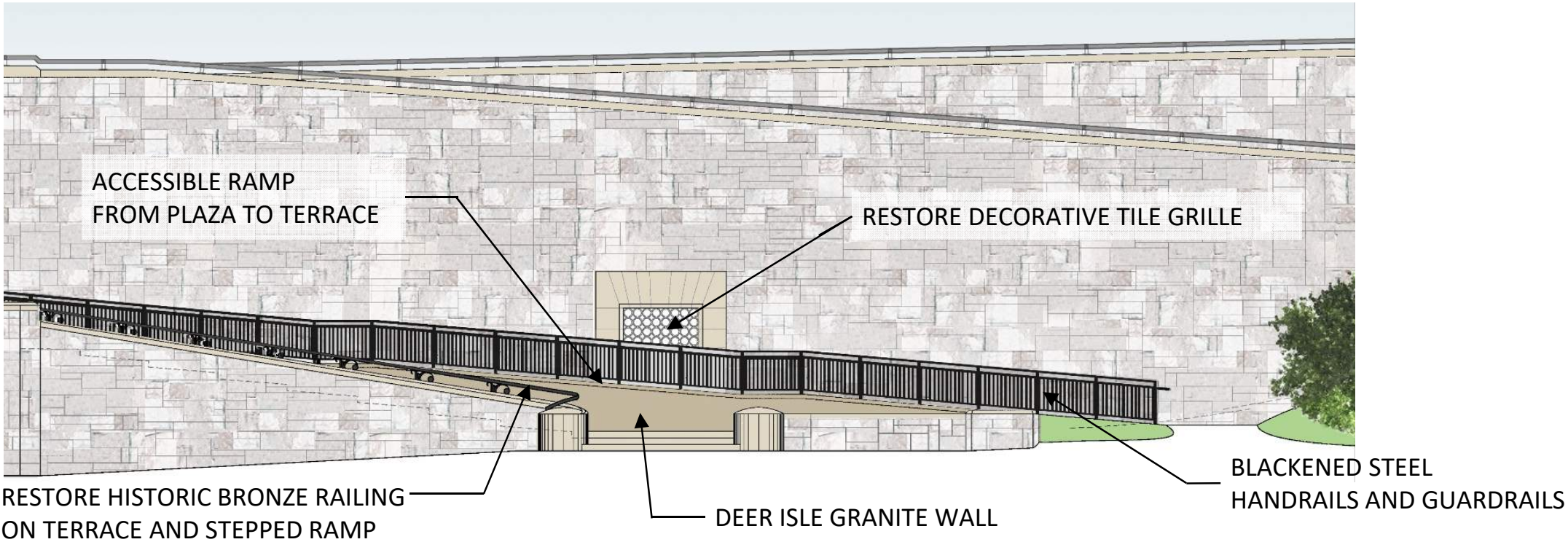
HDR|AECOM a Joint Venture

Ramp from Terrace
to Riverside Park

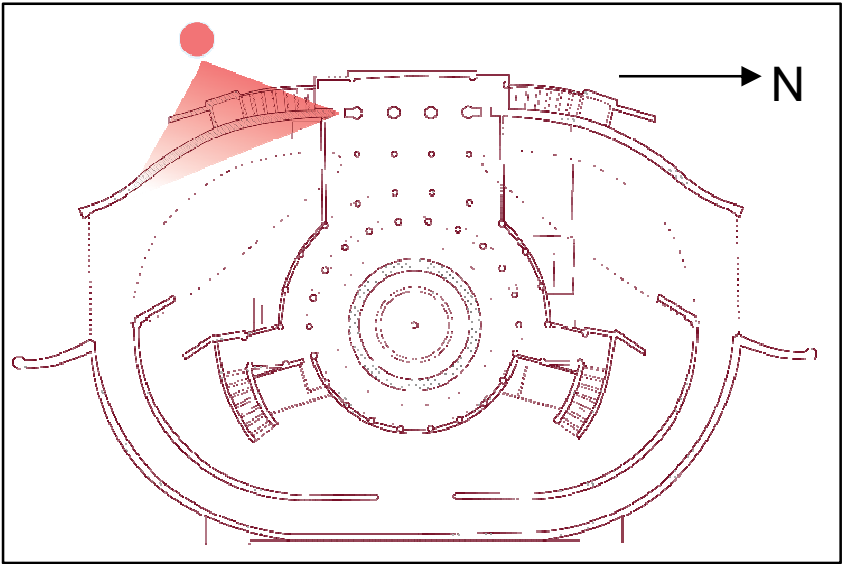
Accessible Ramp from Terrace to Riverside Park



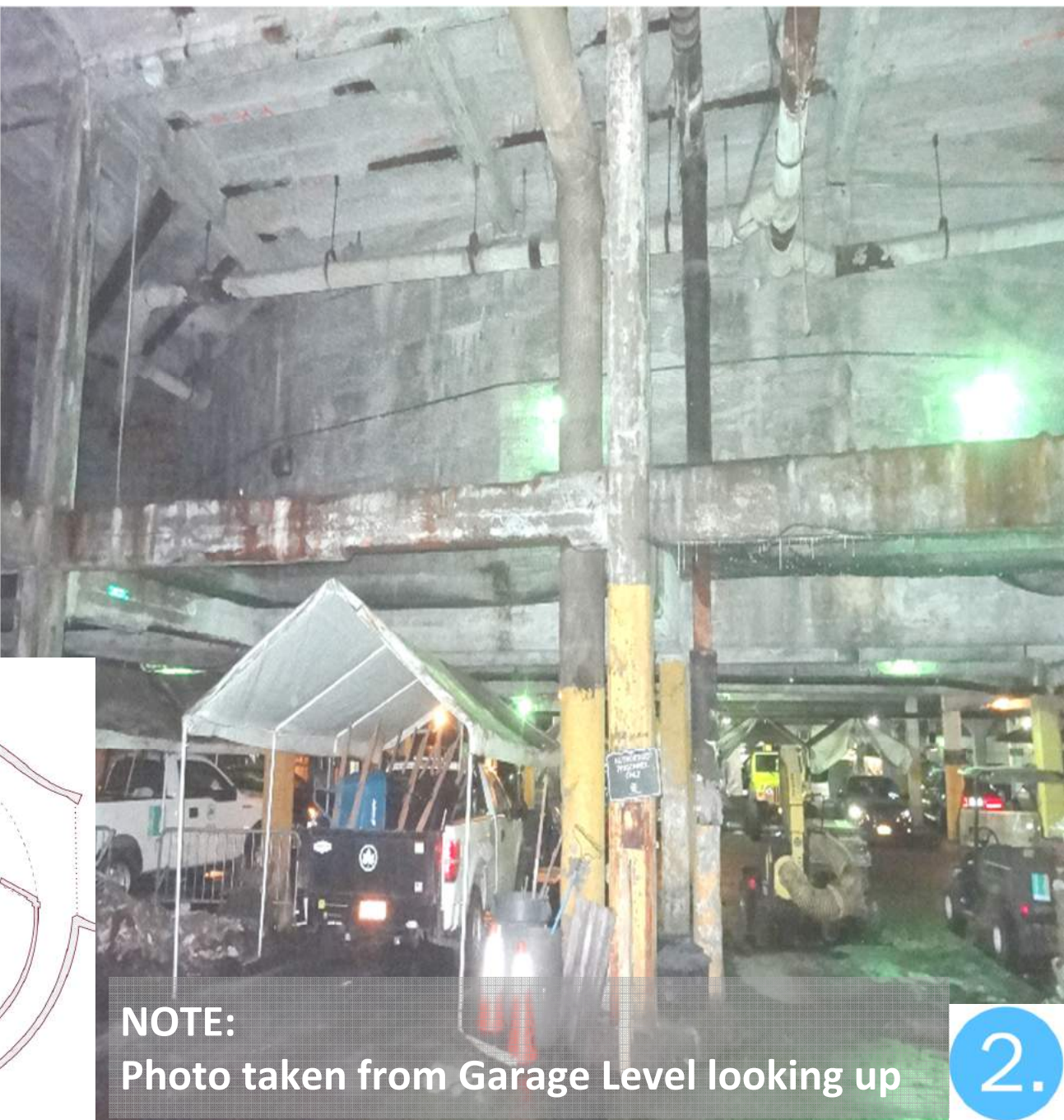
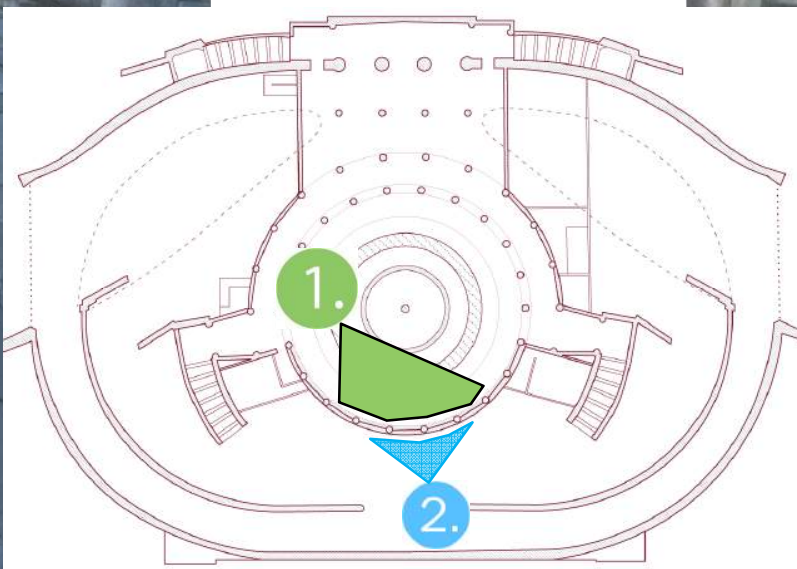
EXISTING ELEVATION



PROPOSED ELEVATION



Photos at Proposed NYC Parks Administrative Office Location

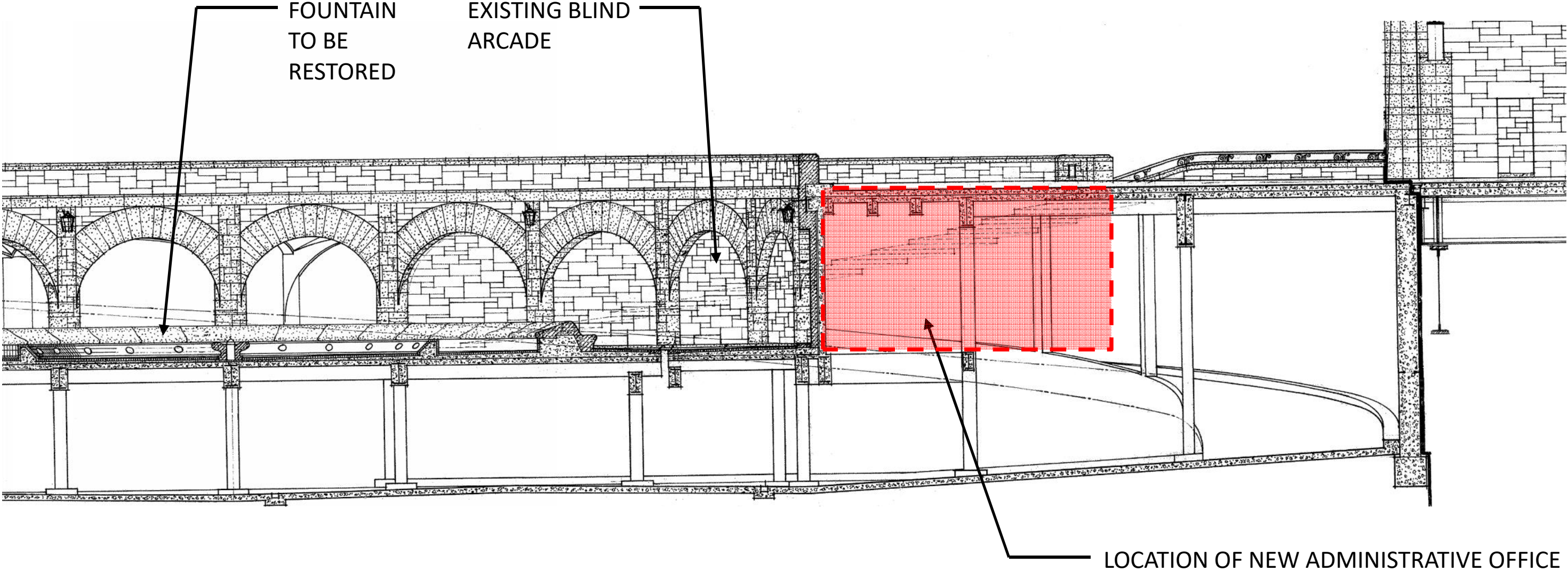


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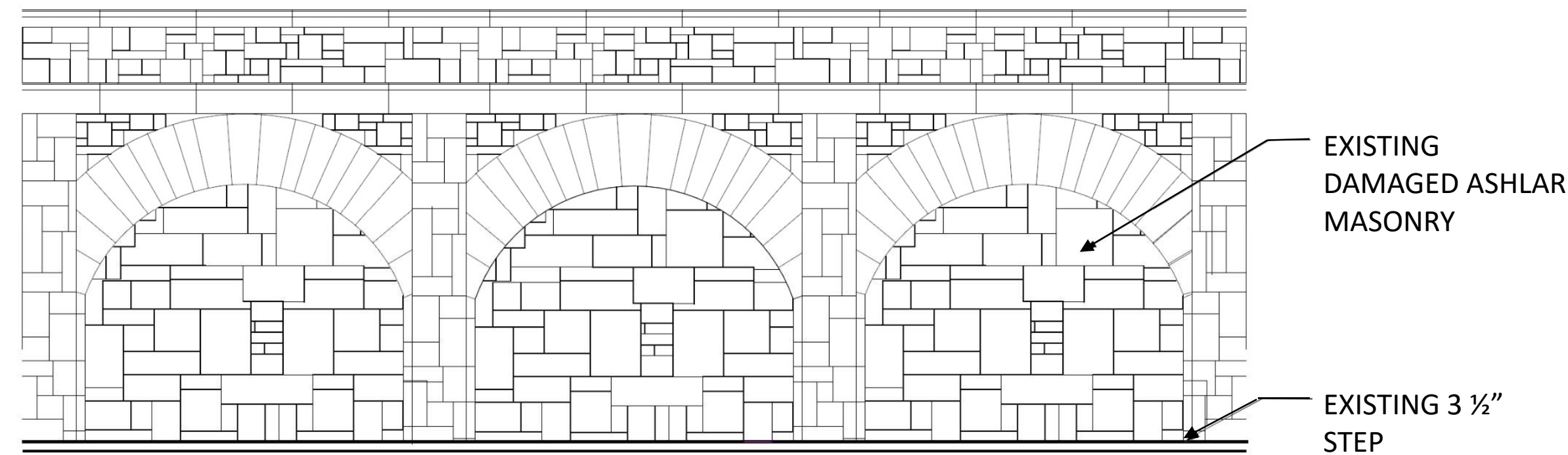
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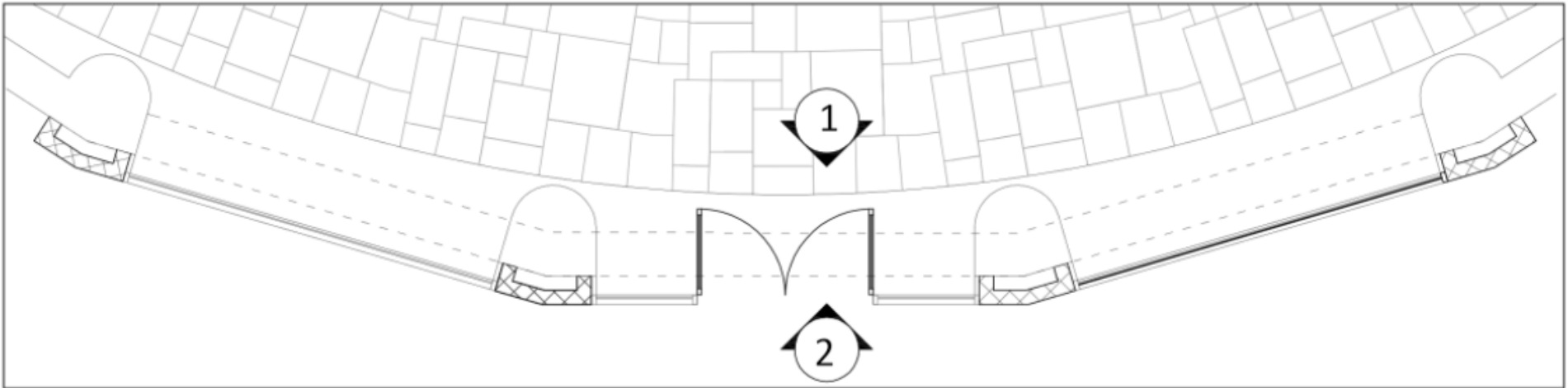
Proposed NYC Parks Administrative Office Location



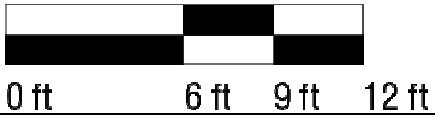
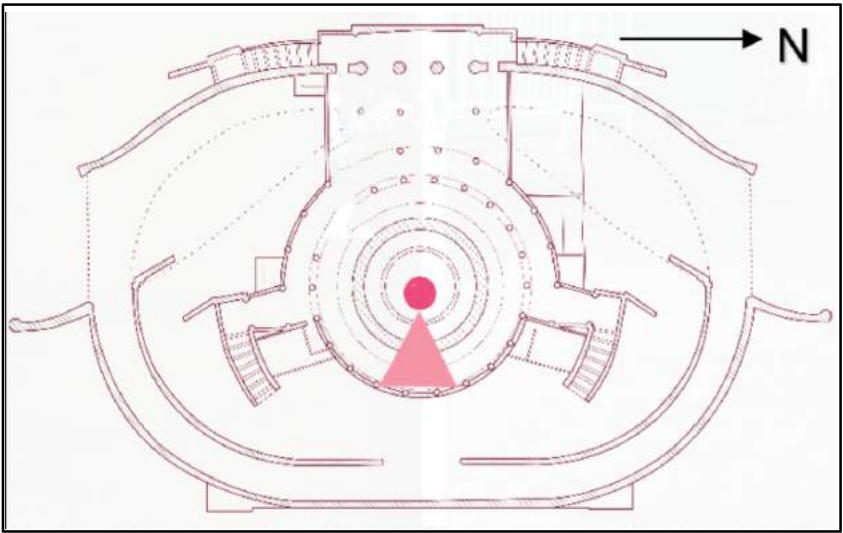
Proposed NYC Parks Administrative Office



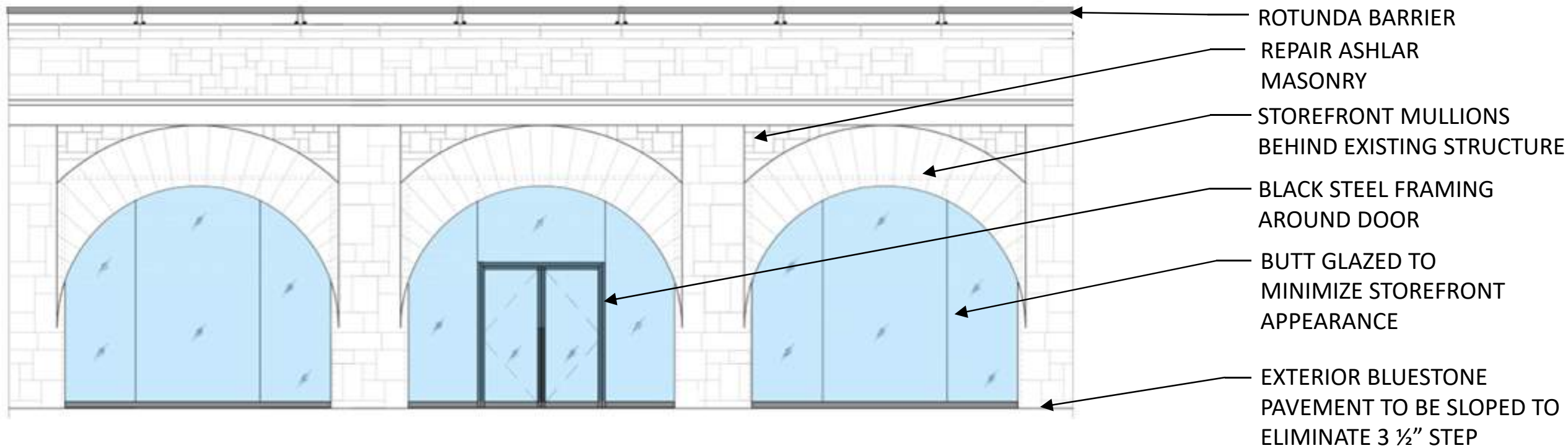
1 Existing Blind Arcade



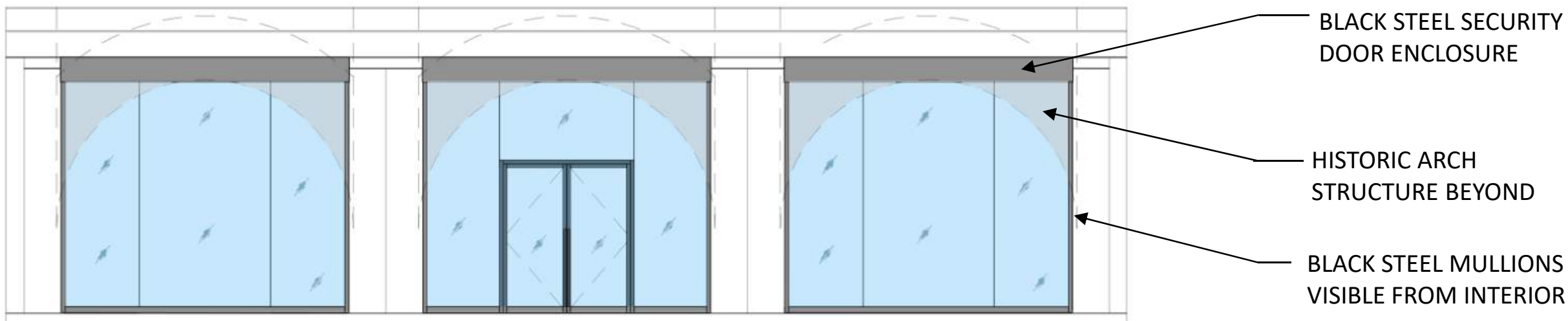
Proposed Plan (see next slide for proposed elevations)



Proposed NYC Parks Administrative Office (continued)

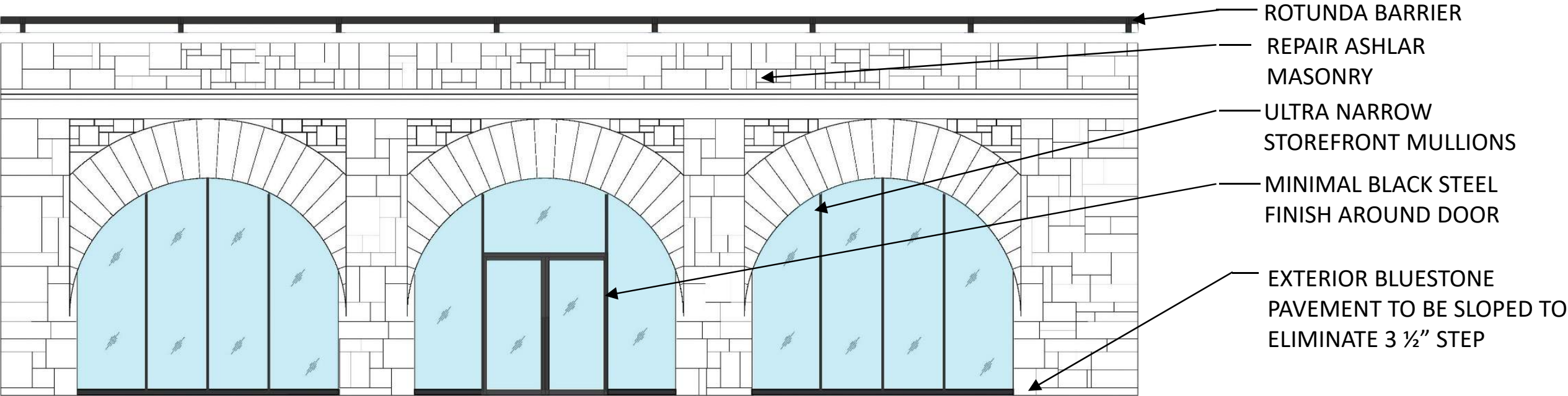


1 Proposed Administrative Office Storefront (view from exterior)



2 Proposed Administrative Office Storefront (view from interior)

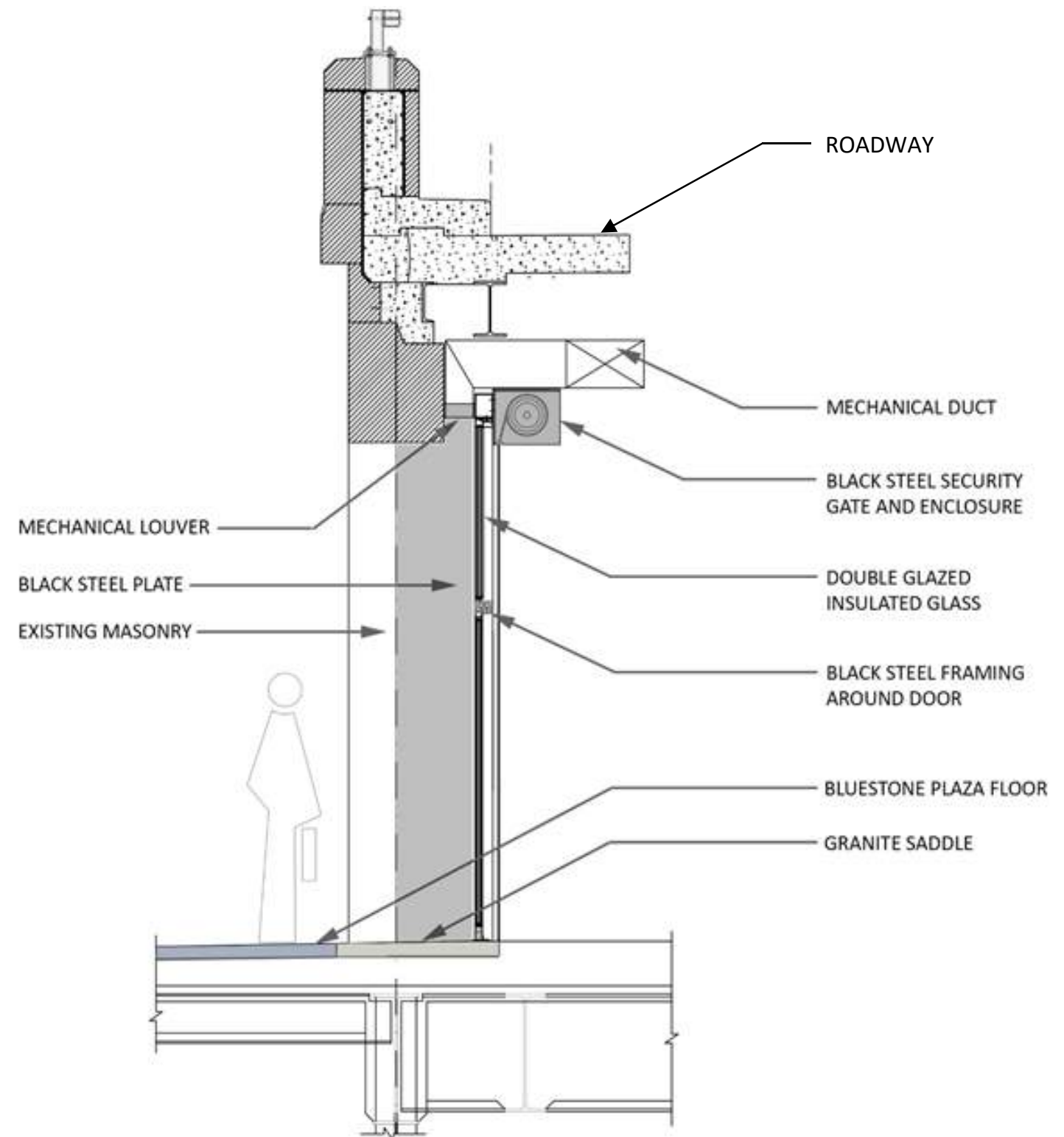
Proposed Alternate NYC Parks Administrative Office



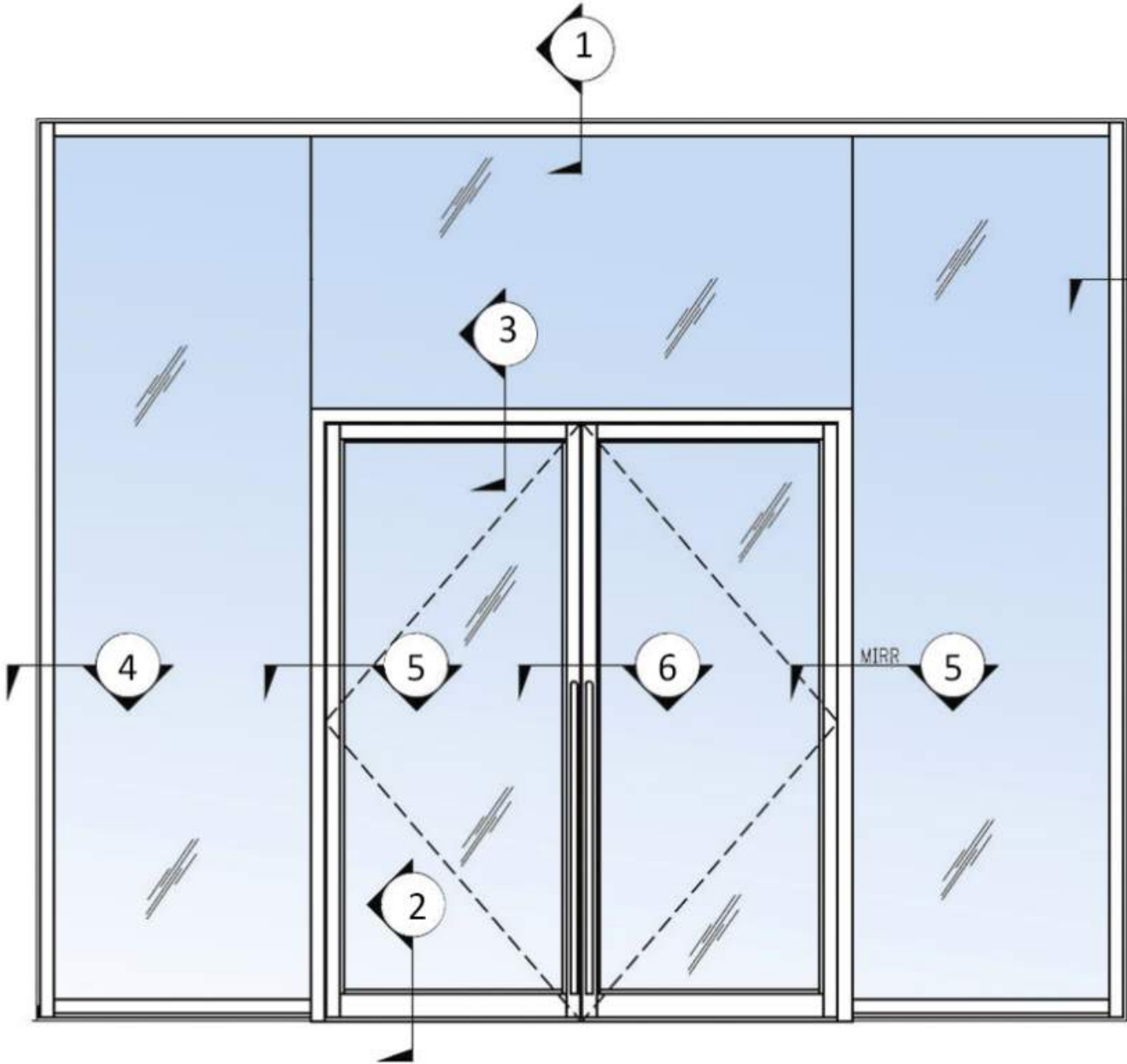
1 Proposed Administrative Office Storefront (view from exterior)

Proposed NYC Parks Administrative Office (continued)

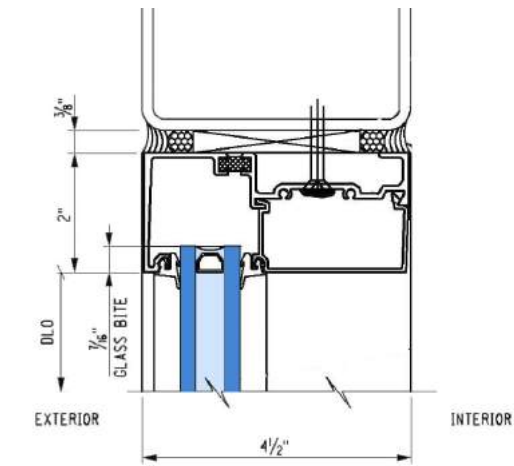
- The automated security gate is proposed behind the glass storefront in accordance with LPC guidelines.
- Mullions, louvers, and electrical devices located behind existing historic structure, obscured from view from the Plaza.



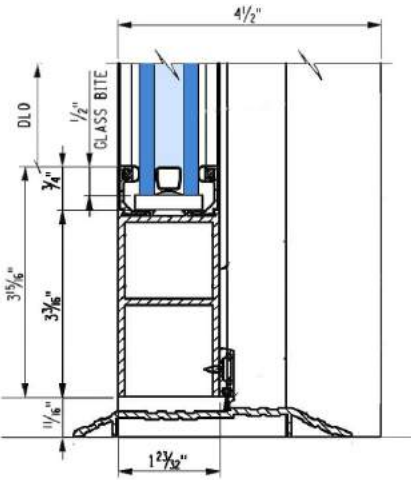
Proposed NYC Parks Administrative Office (continued)



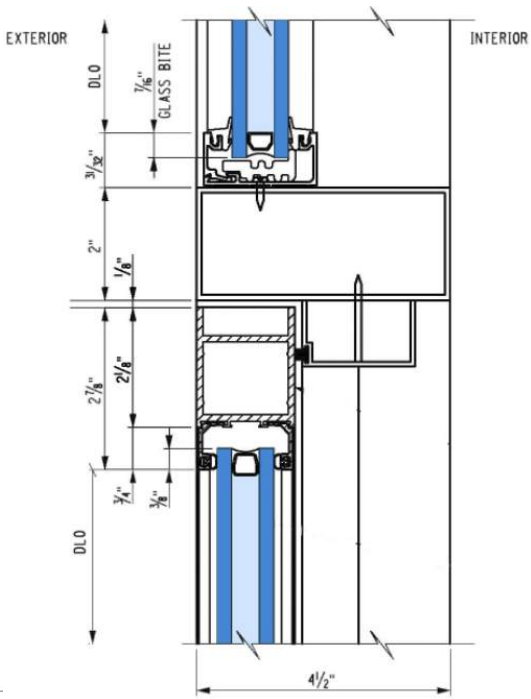
**Proposed Administrative Office Storefront
(view from interior)**



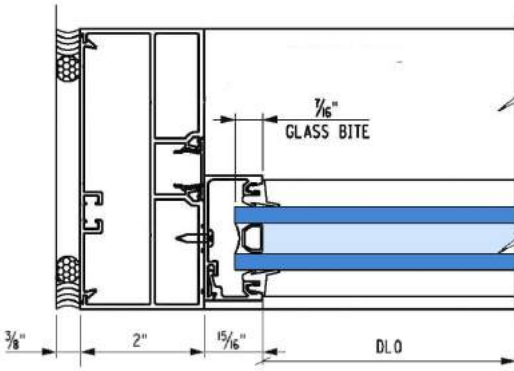
① STOREFRONT HEAD



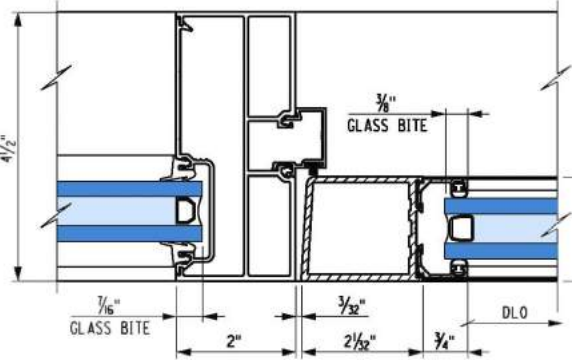
② DOOR SILL



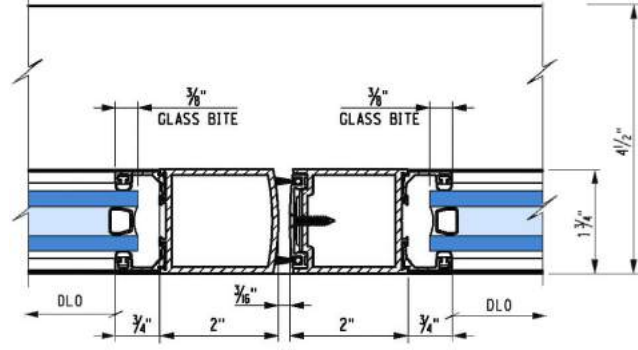
③ DOOR HEAD



④ AT VERTICAL



⑤ DOOR JAMB



⑥ MEETING STILES



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Section at NYC Parks
Administrative Office
Façade
50

Security Doors

SteelWeave Metal Mesh Grille

- Motor Operation
- Mesh provides transparency
- Aesthetic Trim
- Placed behind glass facade for minimal visual impact



Precedent for Storefront Replacement at Blind Arcade:

Restoration of 102nd Street Field House



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Precedent Restoration
of 102nd St Field House
52

NYC Parks Administrative Office and Fountain Level Restoration Rendering

Note:
Safety railing at traffic circle level
Is currently under development



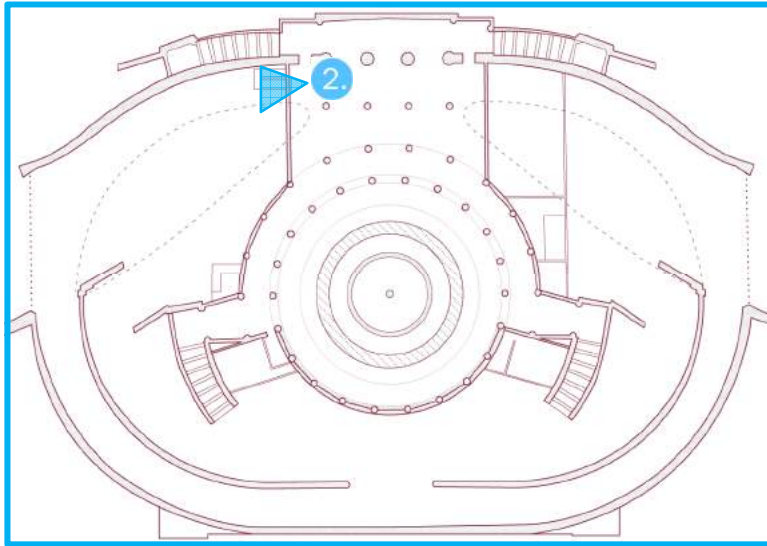
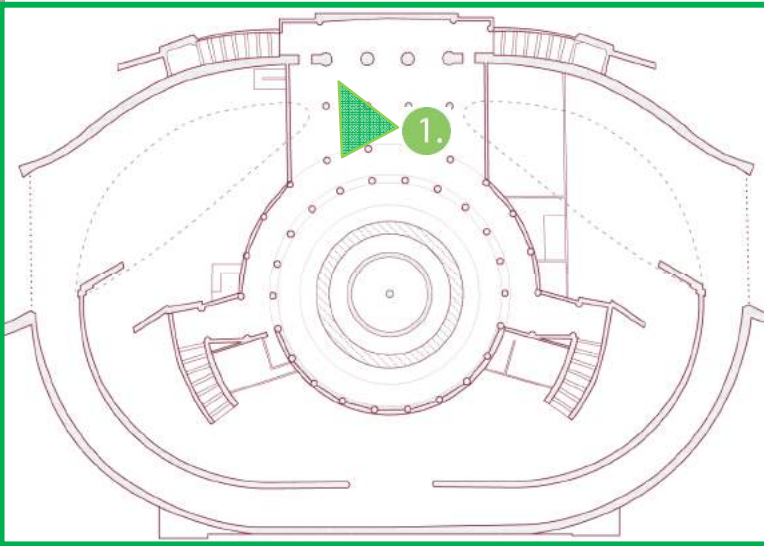
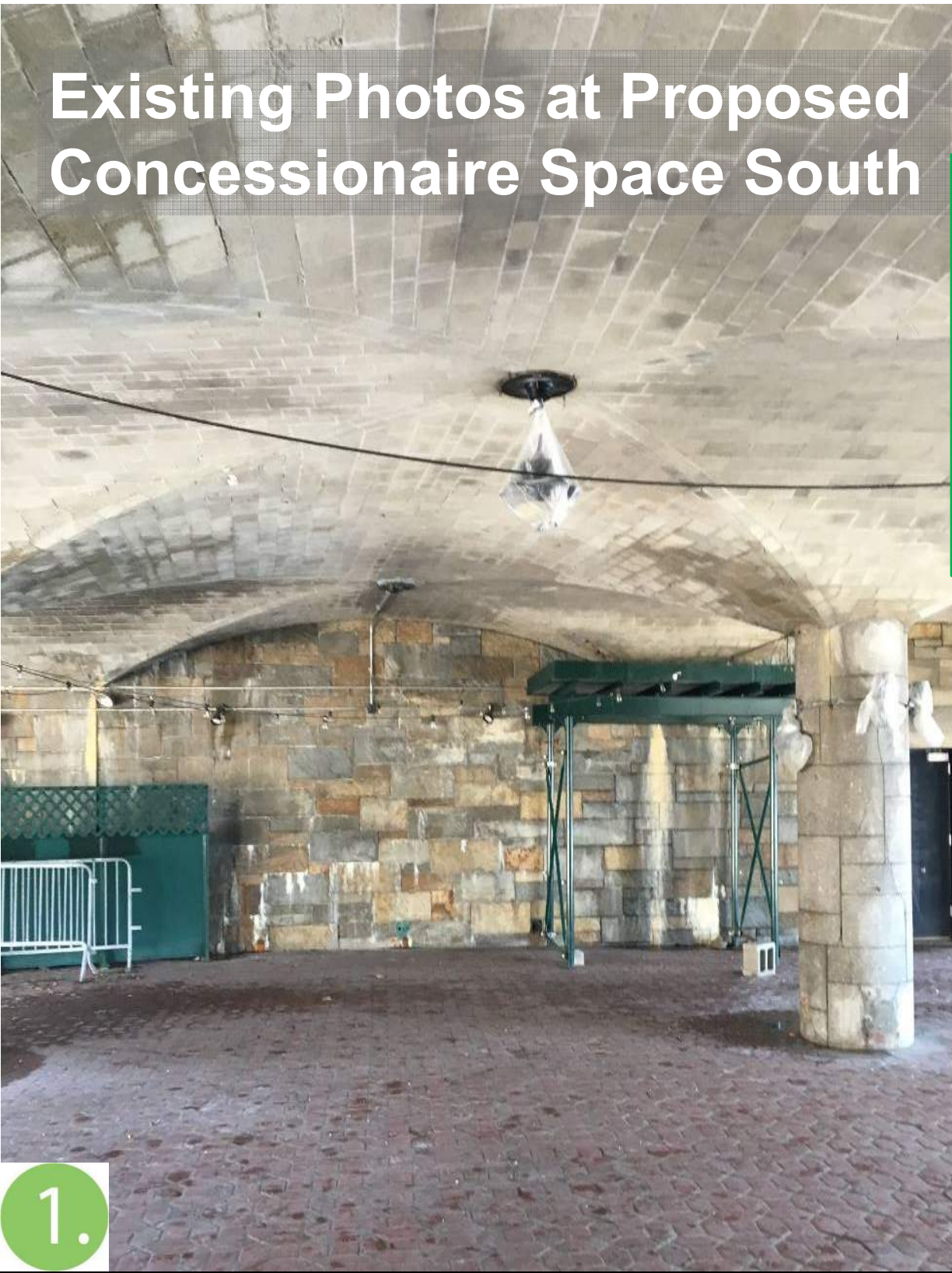
City of New York
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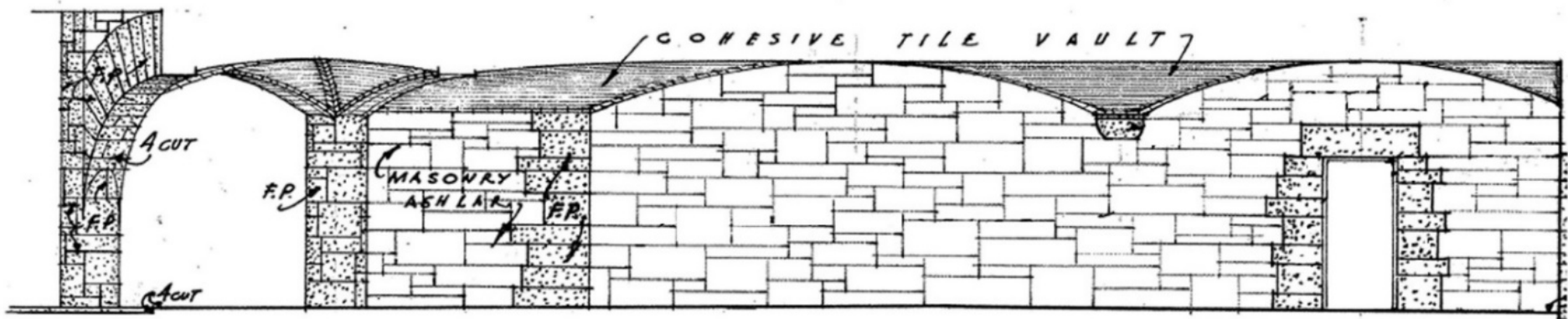
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NYC Parks Administrative
Office Façade Rendering

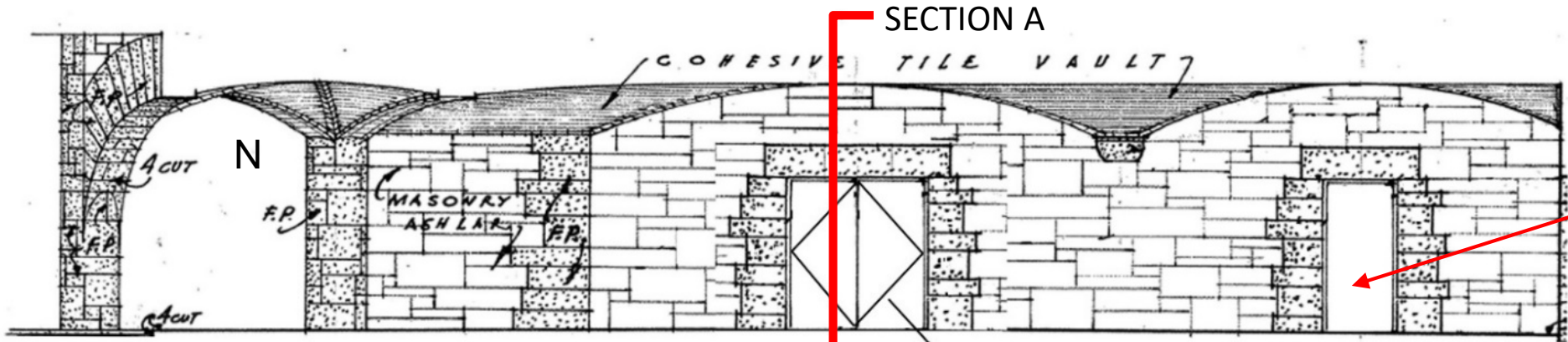
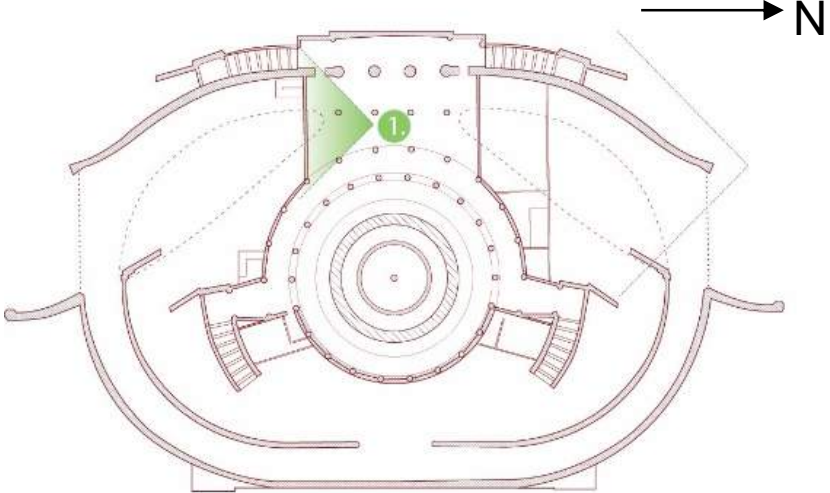
Existing Photos at Proposed Concessionaire Space South



Elevation at Proposed Concessionaire Space South

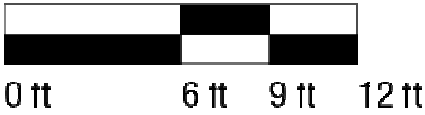
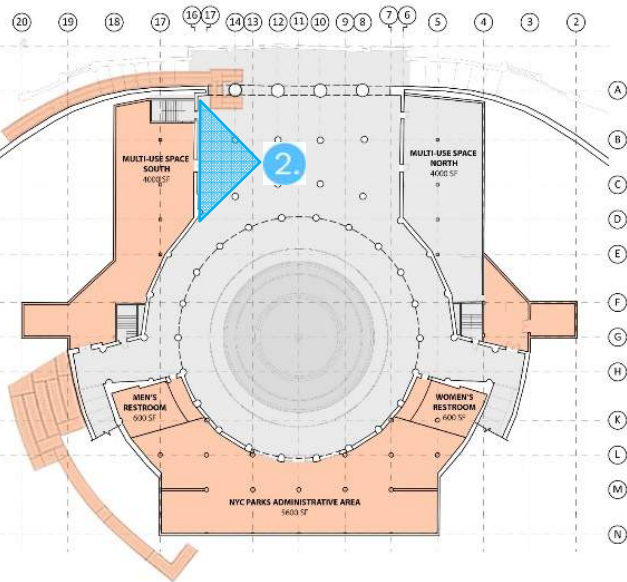


1. EXISTING ELEVATION



2. PROPOSED ELEVATION

PROPOSED DOUBLE DOOR TO CONCESSIONAIRE SPACE SOUTH. MATCH EXISTING BRONZE DOOR AND ADJACENT MASONRY

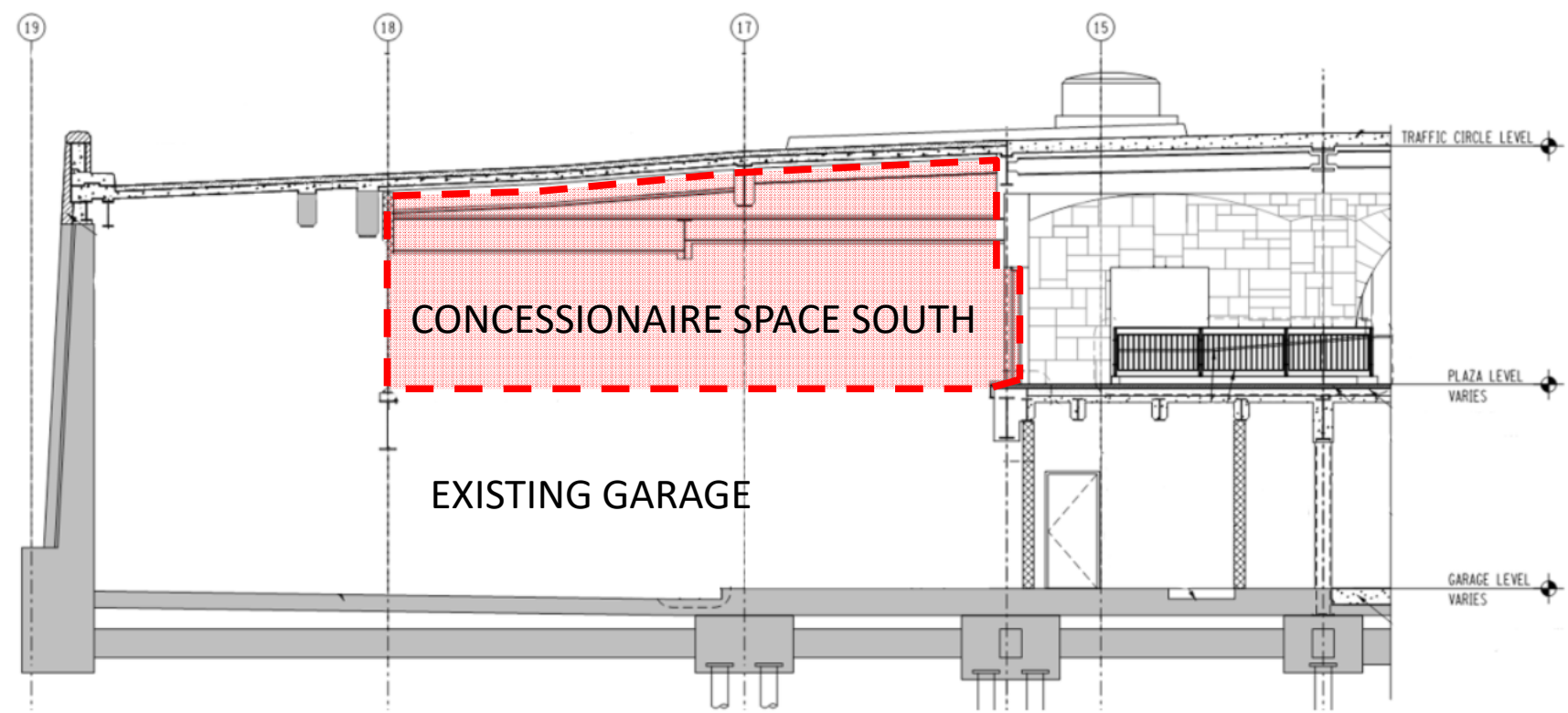


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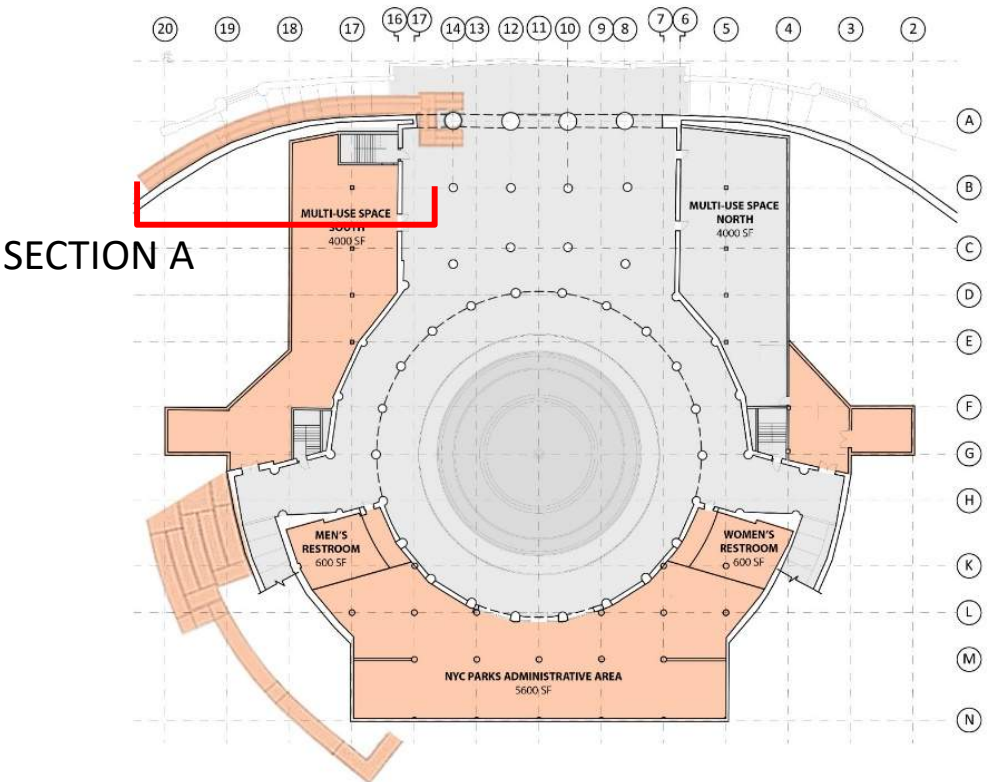
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Concessionaire Space South



SECTION A



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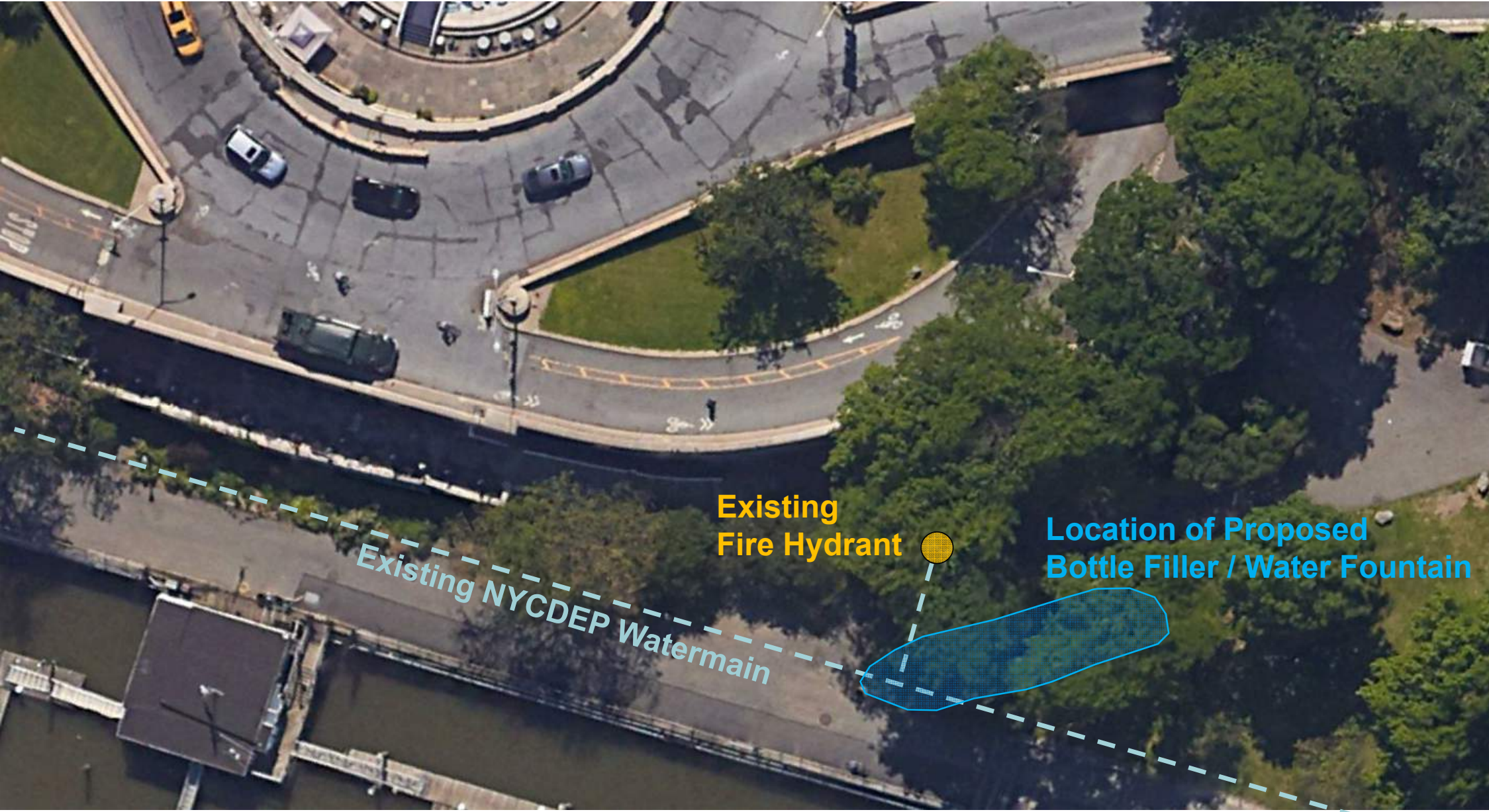
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Elevation at New
Concessionaire Spaces
56

Accessible Drinking Fountain/Bottle Filler

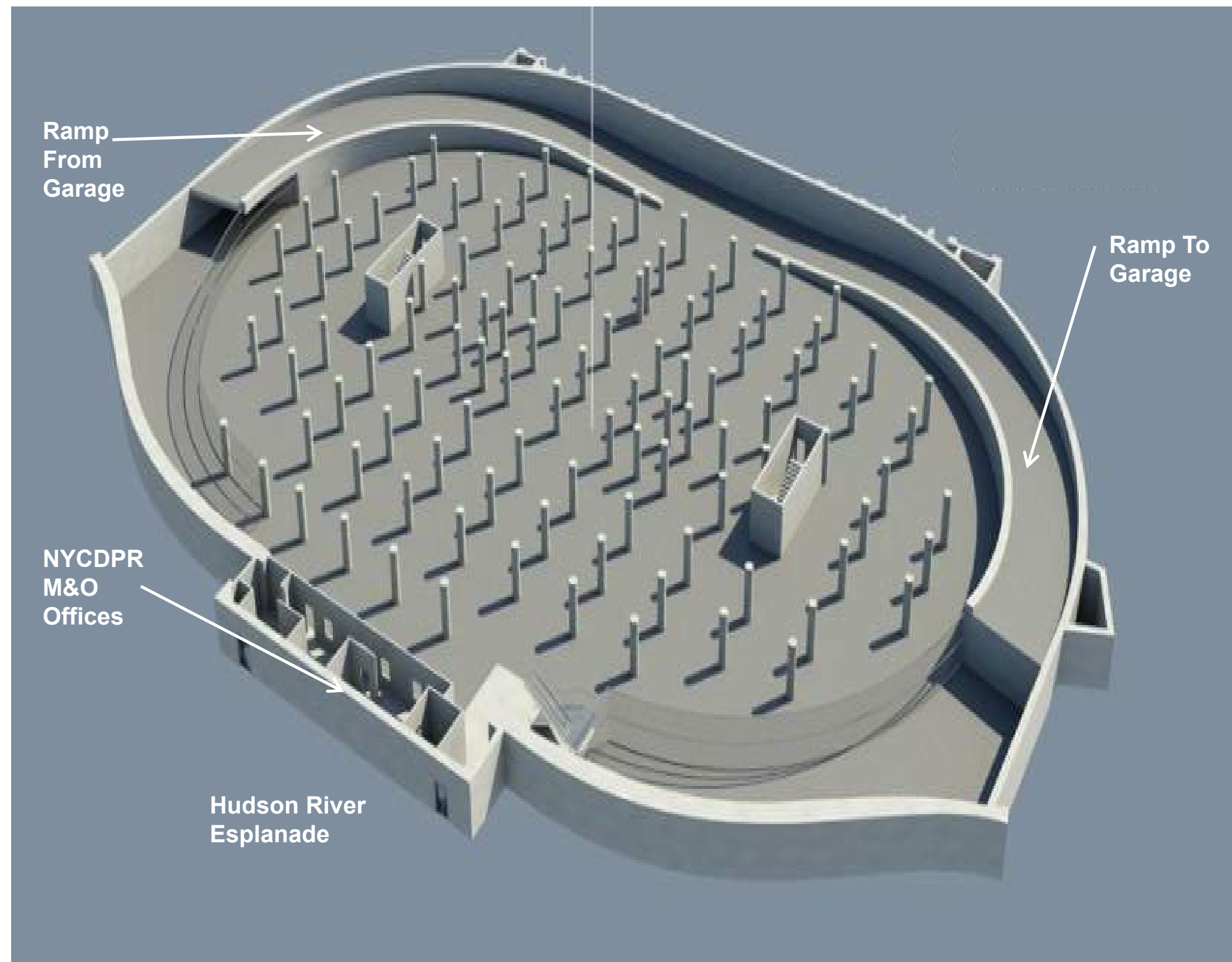
- NYCDPR Standard Details
- Conveniently Located Near Bike Path and Esplanade



Garage Level

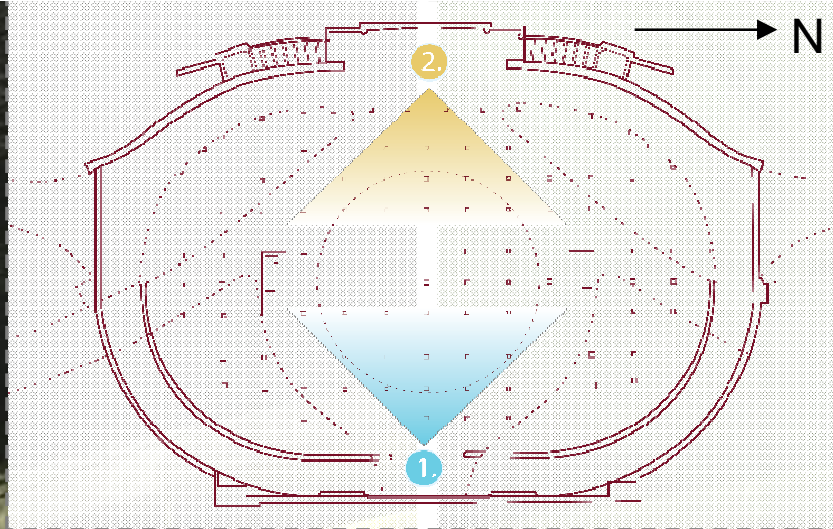
Scope of Work

- Expand NYCDPR Maintenance and Operations Office
- Repair concrete ramps
- Removal of existing concrete encasement to accommodate structural framing repairs and upgrades
- Replace all three stairs to pedestrian plaza
- Restore stone masonry on exterior
- Replace lighting and drainage systems
- Replace or repair mechanical, electrical, and plumbing elements



Existing Conditions

1.



Garage Level
Structure supporting the historic plaza and Rotunda levels above will also be rehabilitated to mitigate leaking, structural, and electrical issues.



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Aerial Rendering



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Conceptual Aerial
Rendering
60

Appendix 1

ADA Ramp Studies



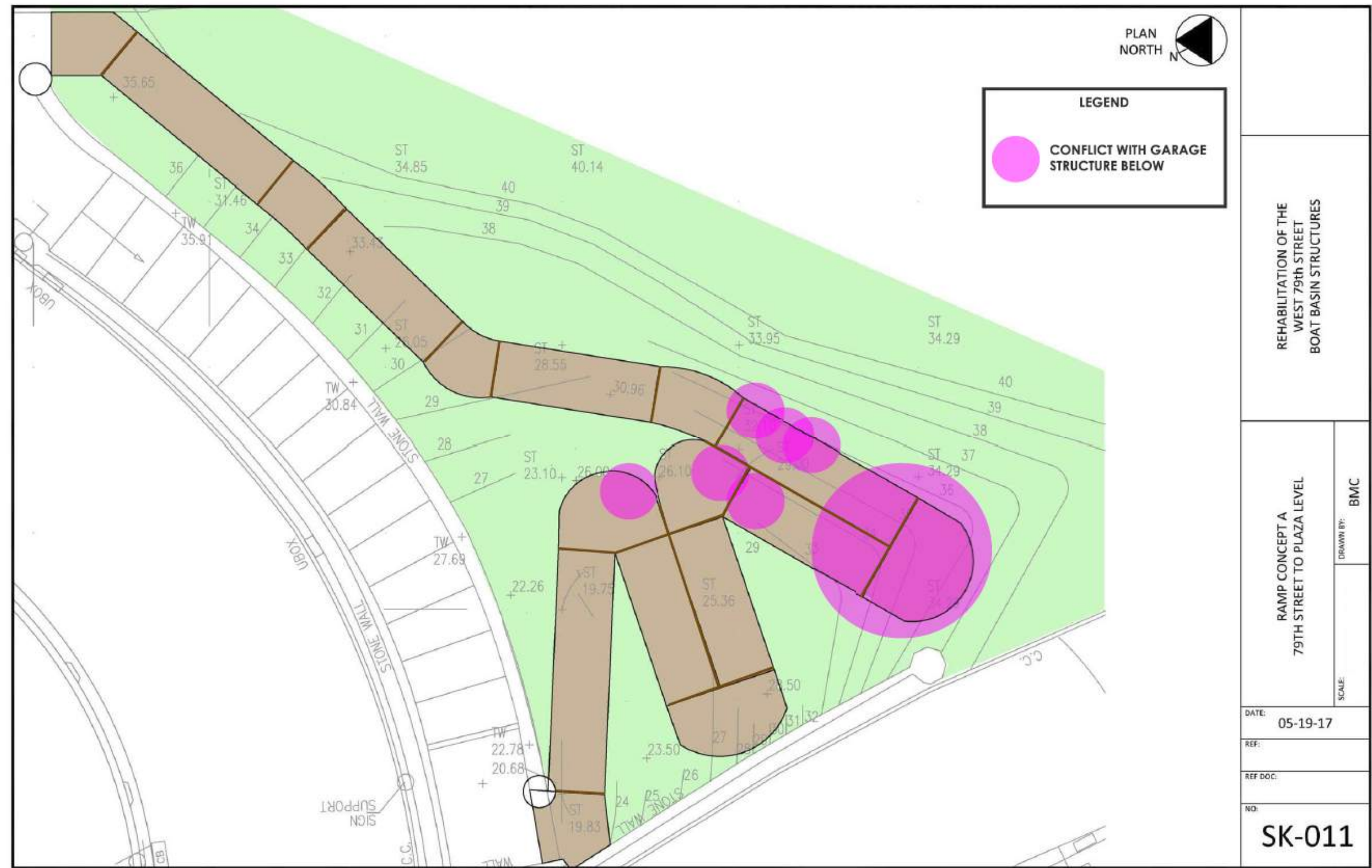
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Ramp Studies

Several ramp configuration designs were tested. Due to the conflicts with the garage roof structure directly below, these designs were not feasible.



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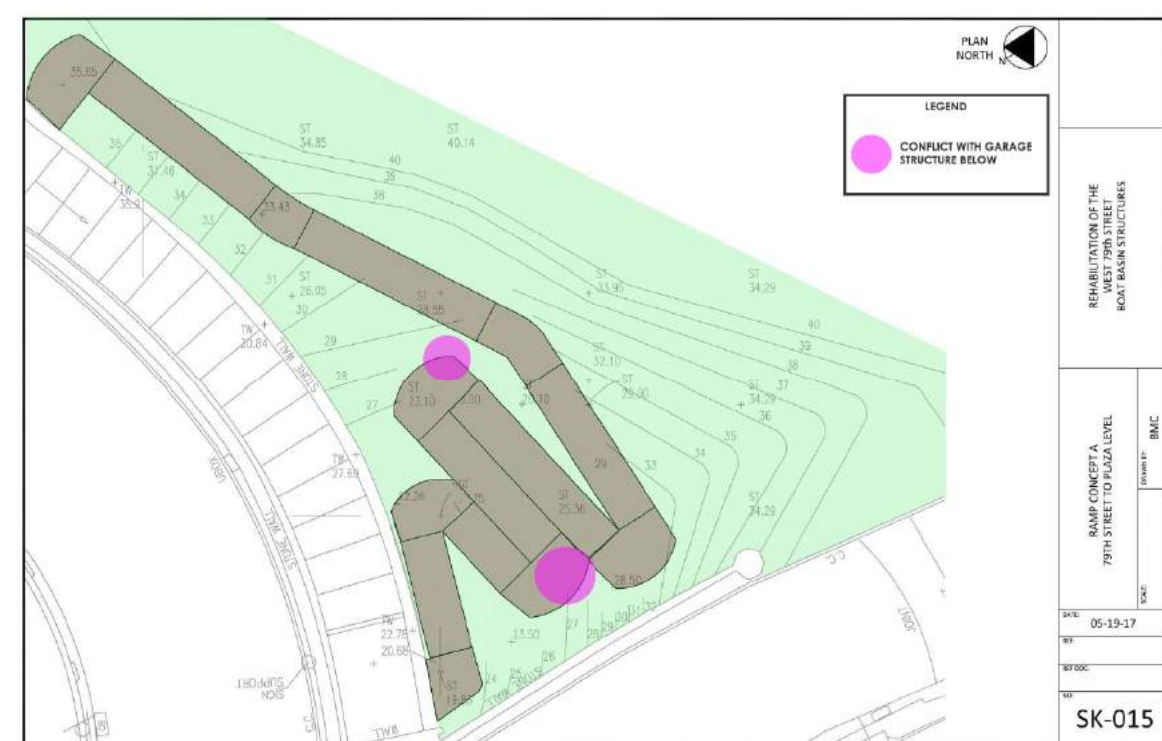
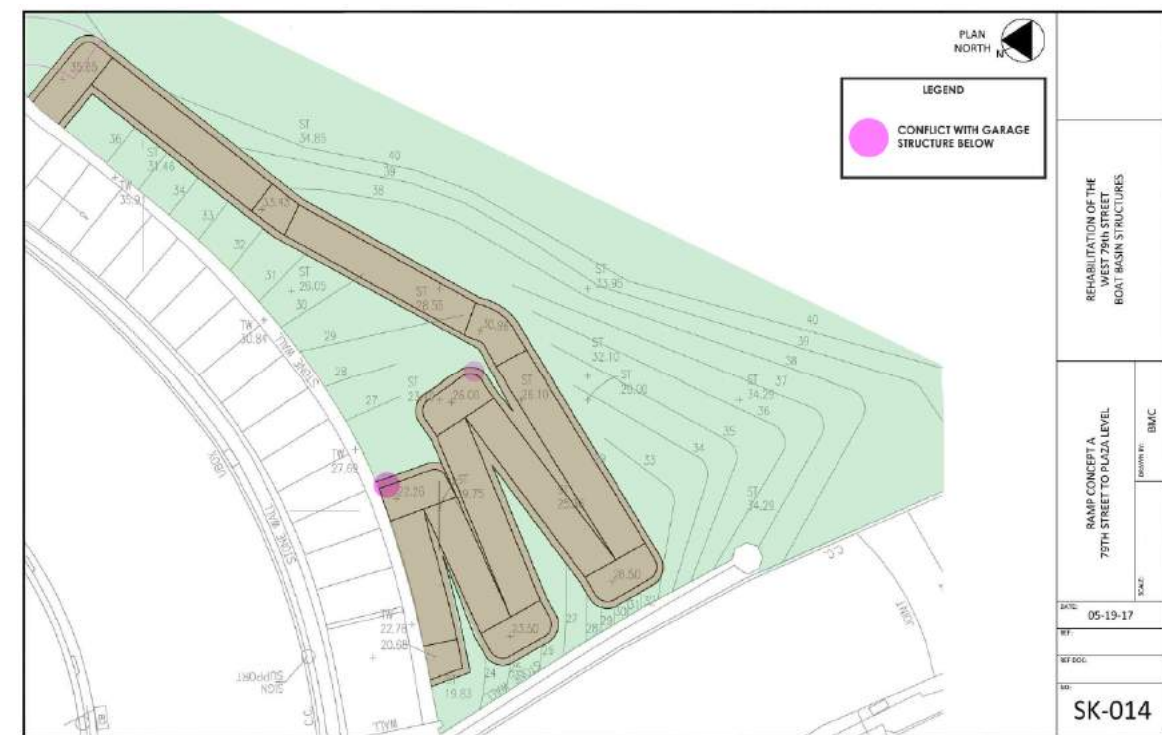
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Ramp Studies

Ramp Studies (continued)

Several ramp configuration designs were tested. Due to the conflicts with the garage roof structure directly below, these designs were not feasible.



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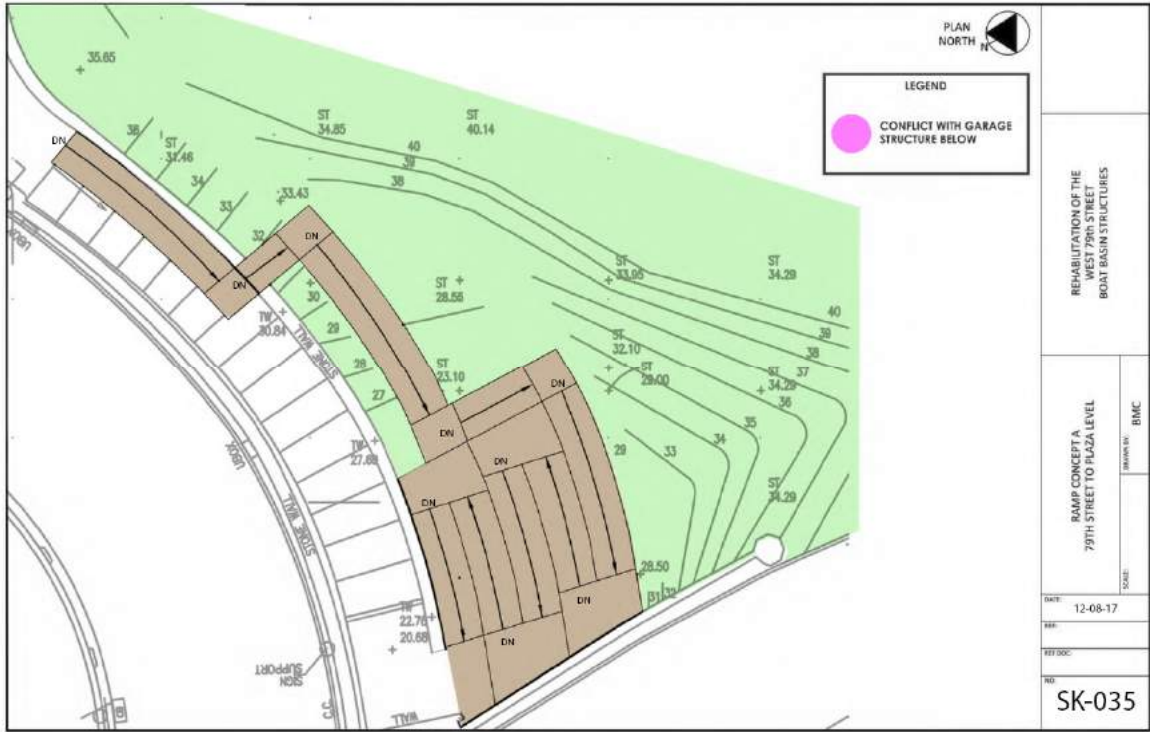
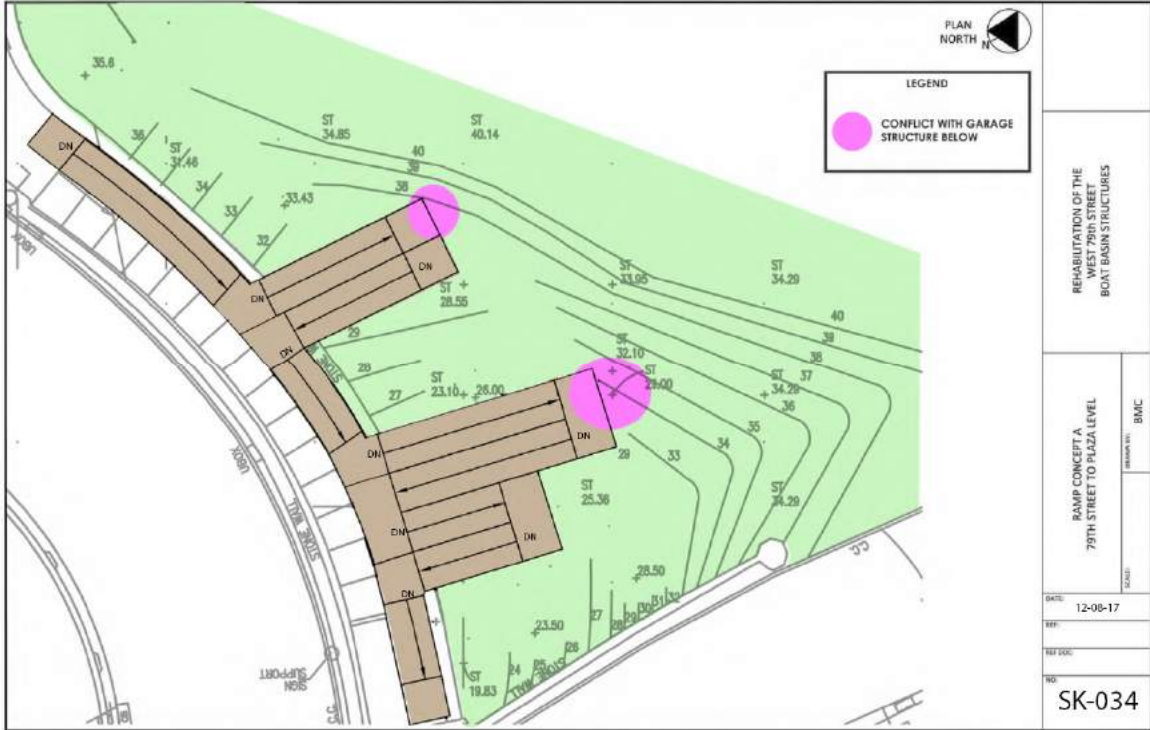
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Alternate Accessible Ramp
(Street to Plaza)
63

Ramp Studies (continued)

Several ramp configuration designs were tested. Due to the conflicts with the garage roof structure directly below, these designs were not feasible.



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Alternate Accessible Ramp
(Street to Plaza)
64

Appendix 2

Restoration Items



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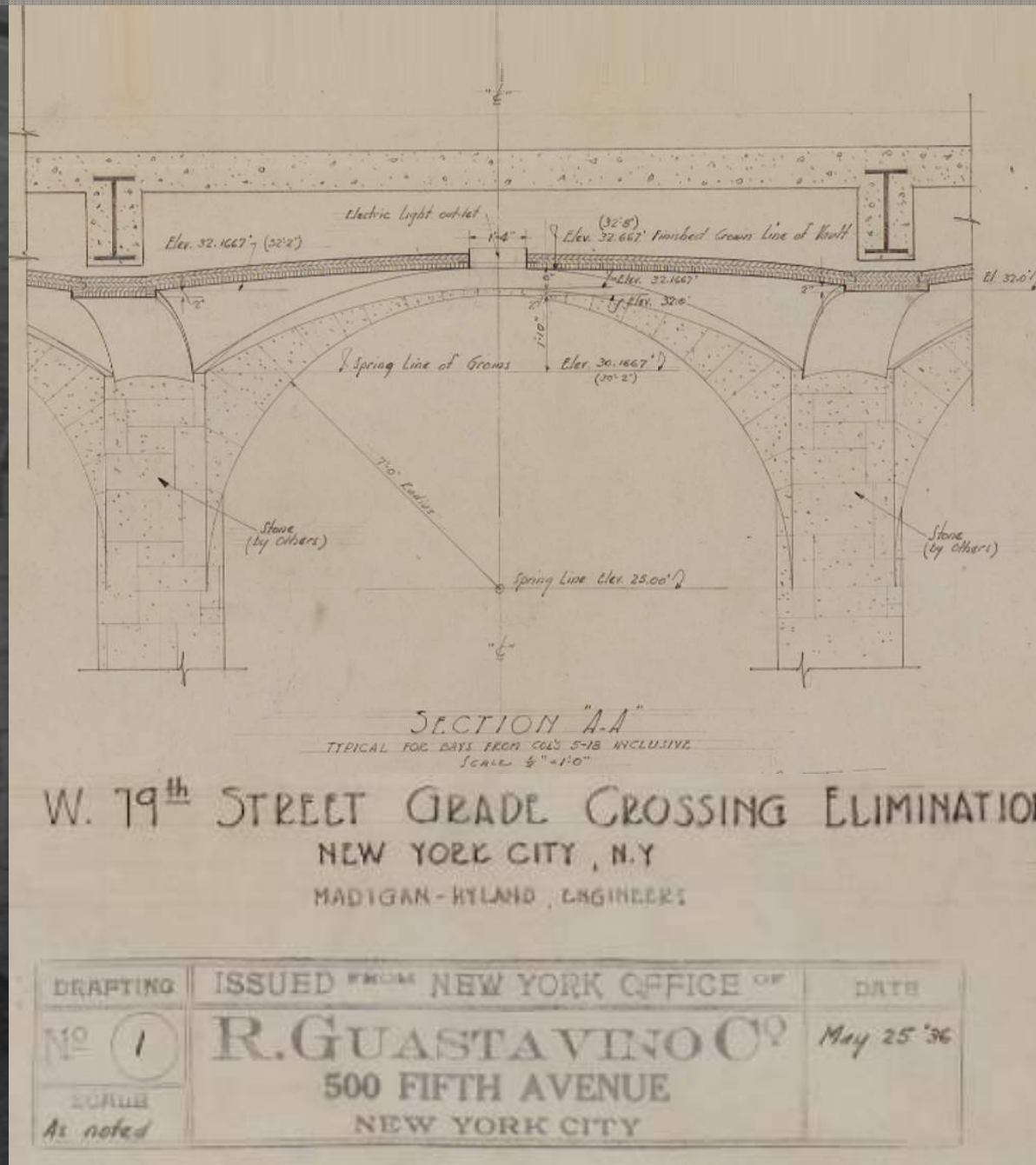
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Historic Features to be Restored: Guastavino Ceilings



Guastavino Ceilings, 1937



Shop Drawings, 1936

- Retain Historic Geometry and Method of Construction
- Field Investigations
 - Sampling/Testing of Materials
 - Visual Inspection
- Preliminary Structural Analysis
 - Historical Methods used by R. Guastavino Company and/or Finite Element Analysis
- Performance Specifications
 - Contractor/Engineer Qualifications
 - Replication of Tiles/Mortars
 - Waterproofing
 - Mock-Up/Load Testing

Note: Field Investigations Currently Ongoing



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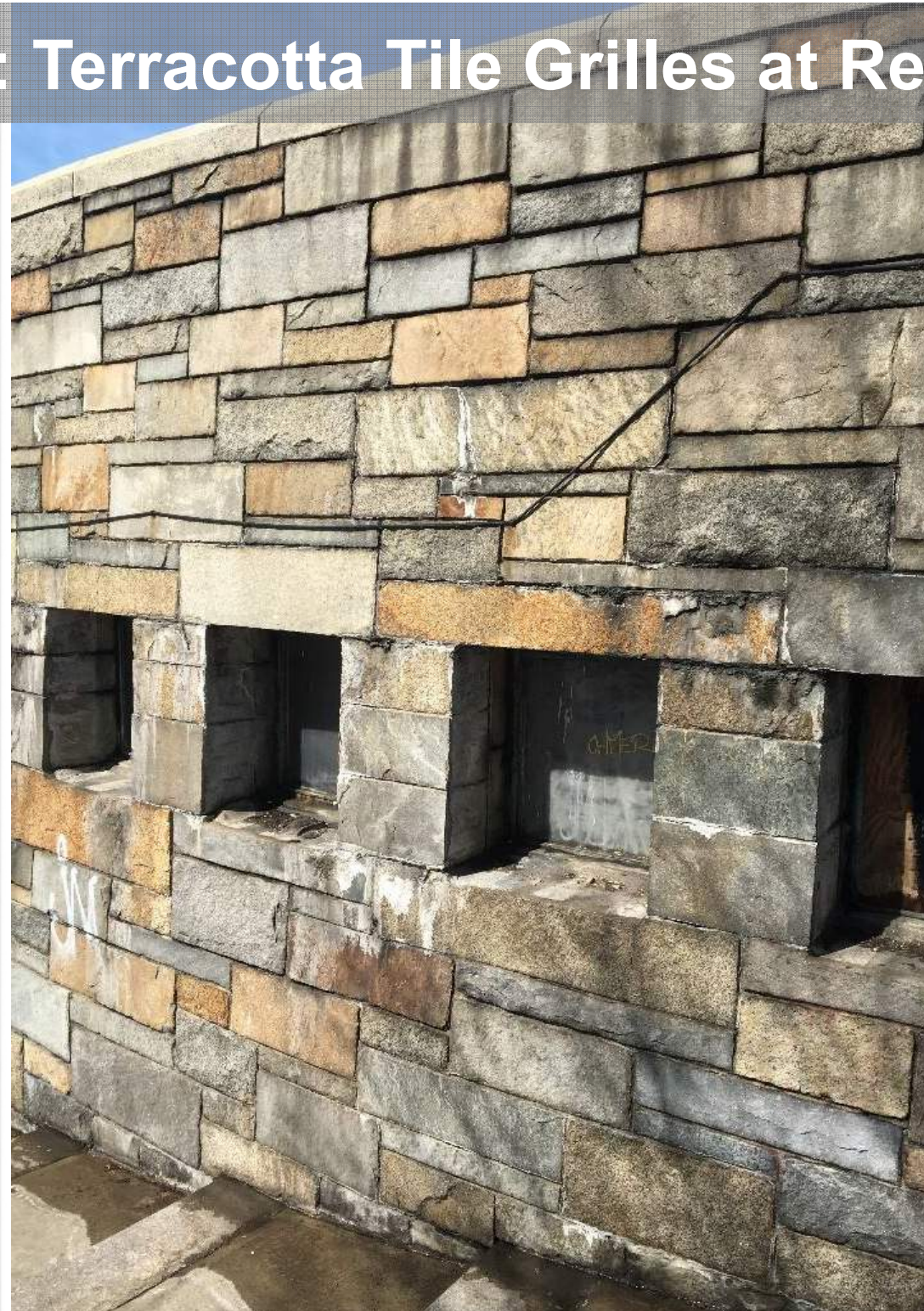
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Historic
Photographs
66

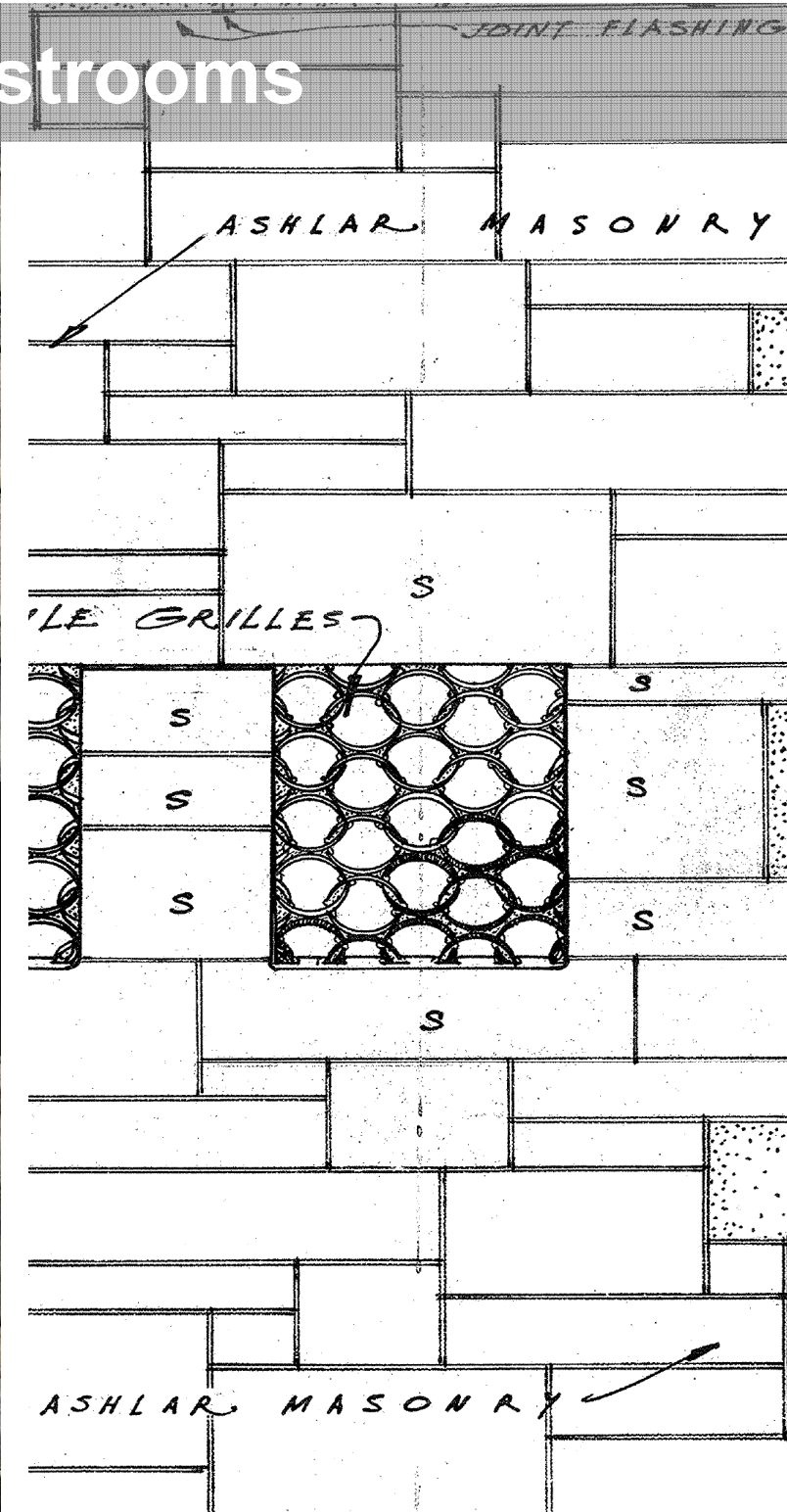
Historic Features to be Restored: Terracotta Tile Grilles at Restrooms



Tiled Grilles Window Opening 1937



Existing Condition



Elevation



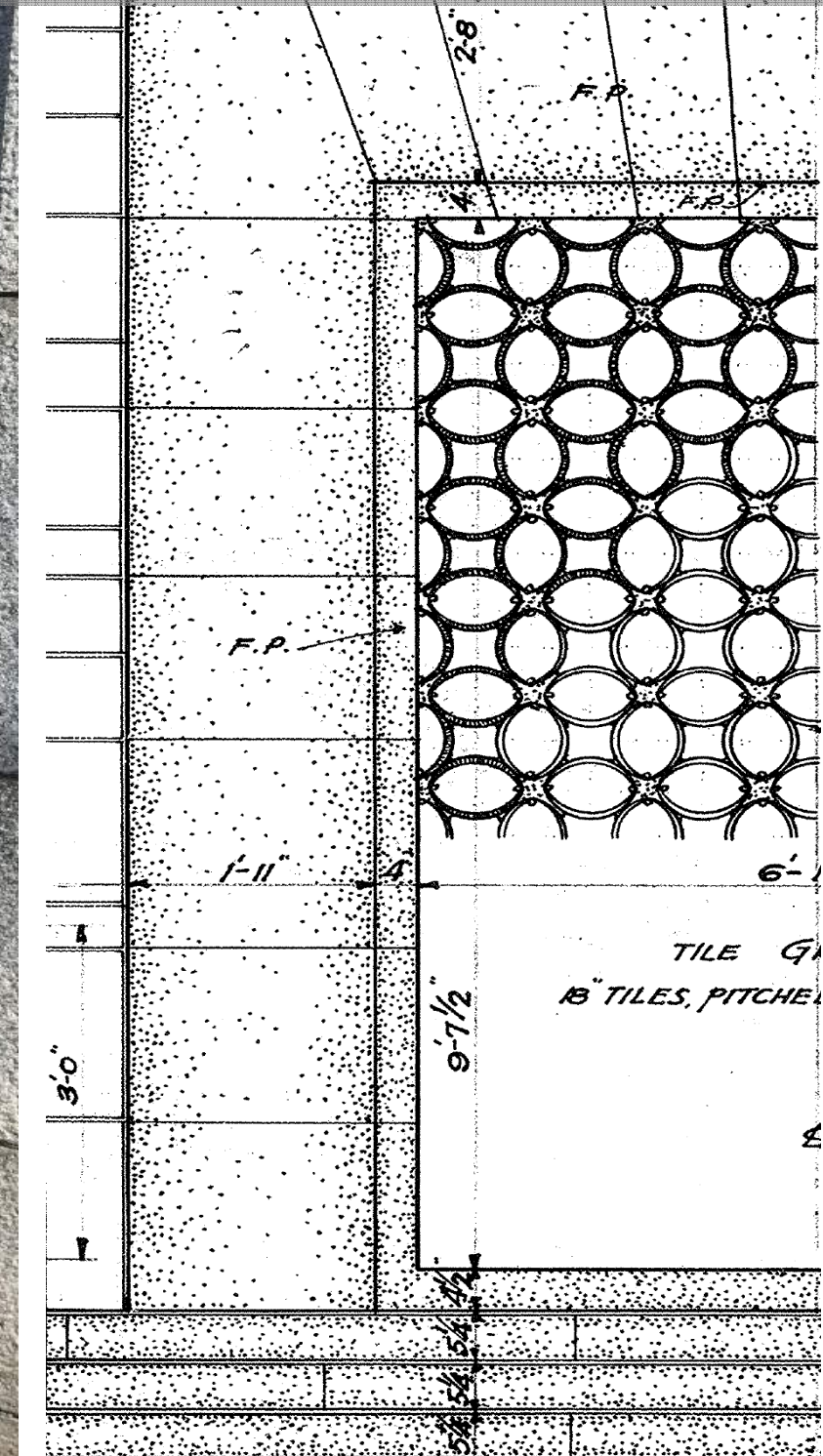
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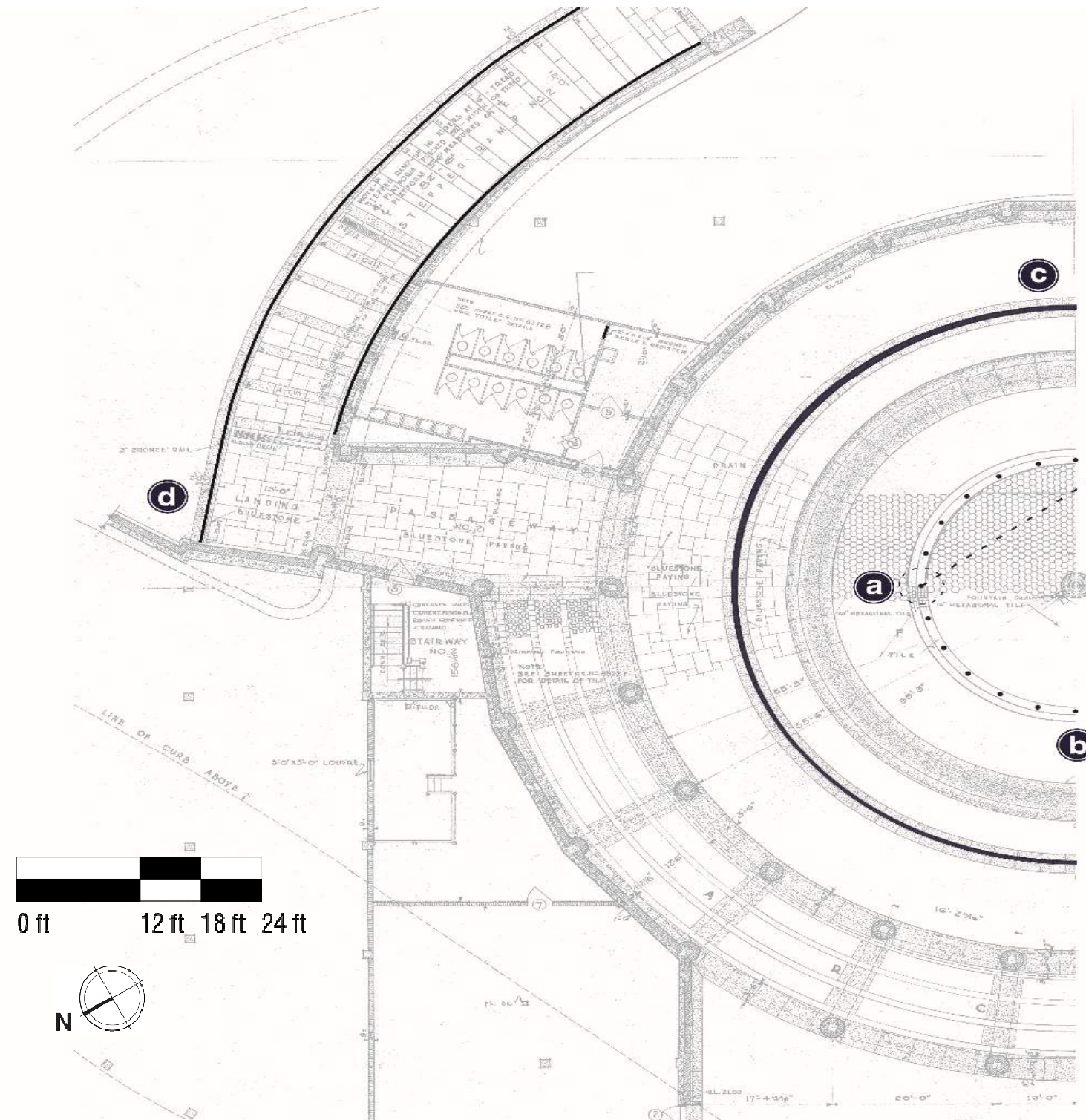
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Historic Elements
Terracotta Tile Grilles at
Restrooms
67

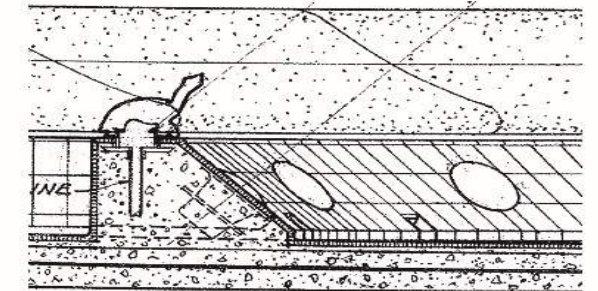
Historic Features to be Restored: Terracotta Tile Grilles at Vents



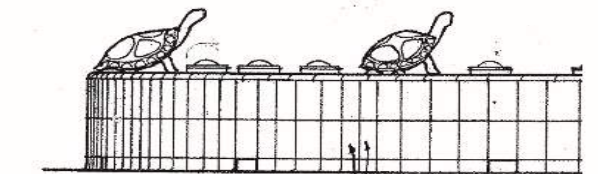
Historic Materials and Finishes to be Restored: Bronze



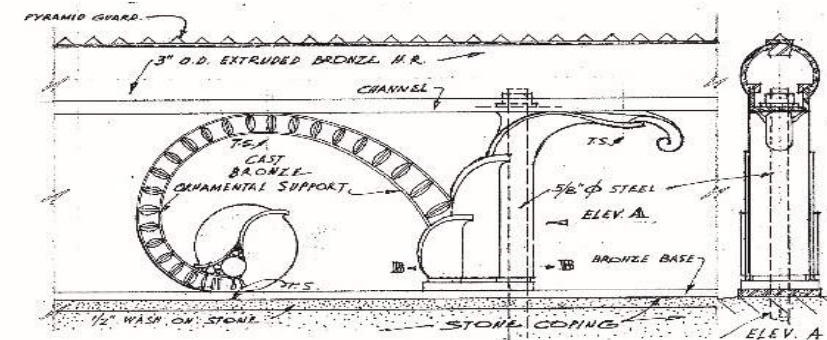
Fountain Turtle Sculpture



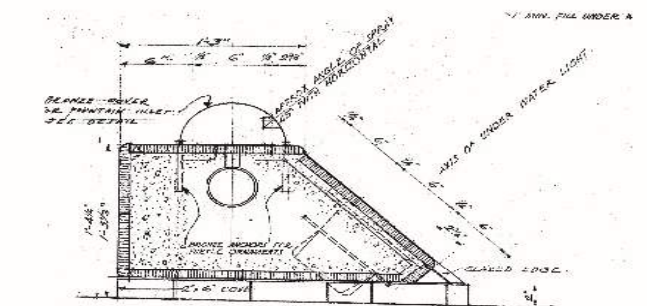
Turtle Sculpture Section



Turtle Sculpture Elevation



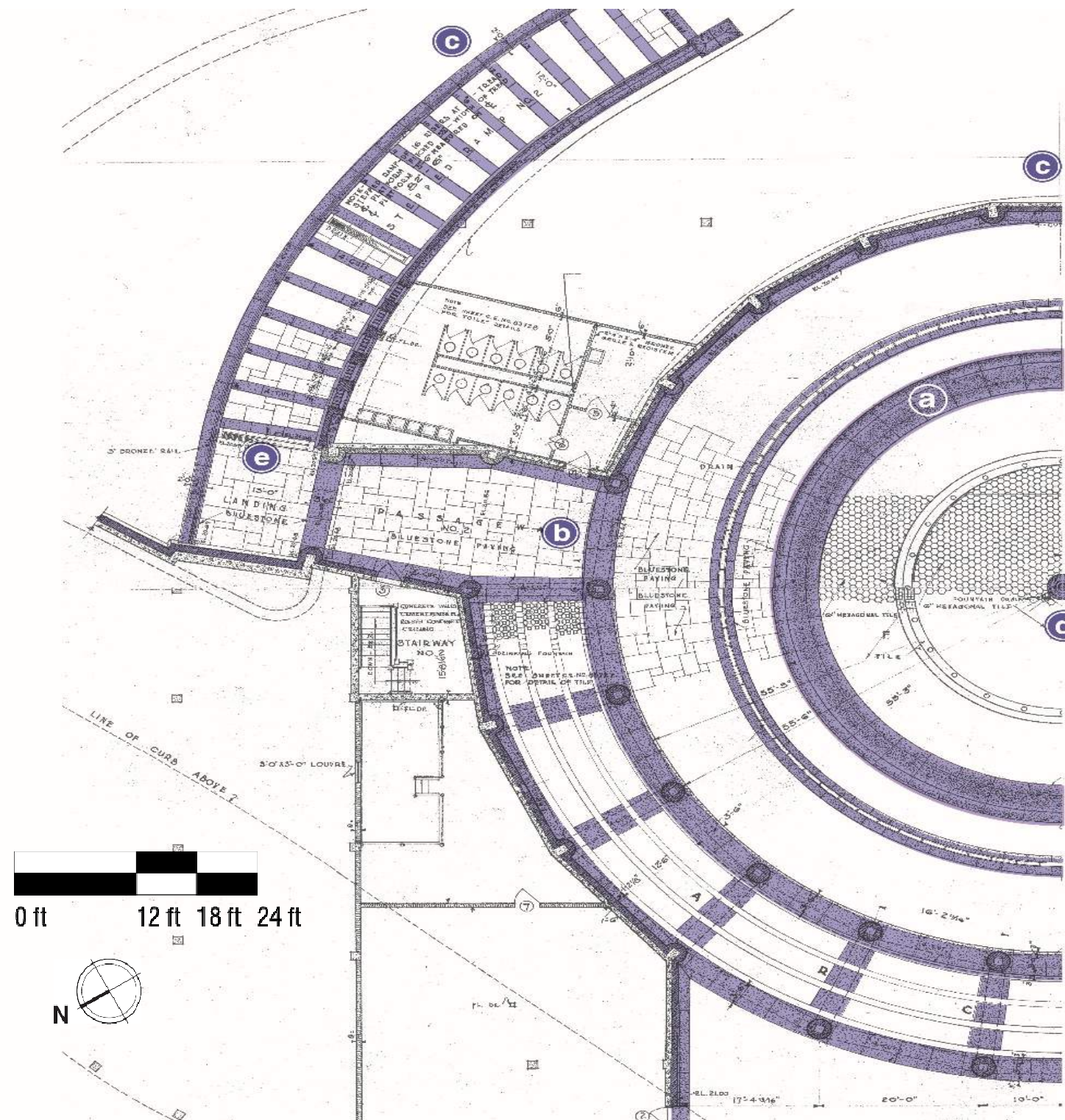
Elevation of Railing | Typical for Level Railing



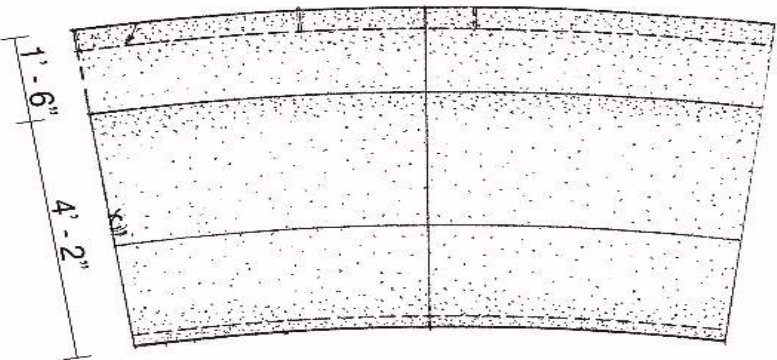
Bronze Cover For Fountain Inlets

- a) Turtle Sculptures** **b) Fountain Inlet Cap**
- c) Continuous Bronze Drain** **d) Bronze Railing**

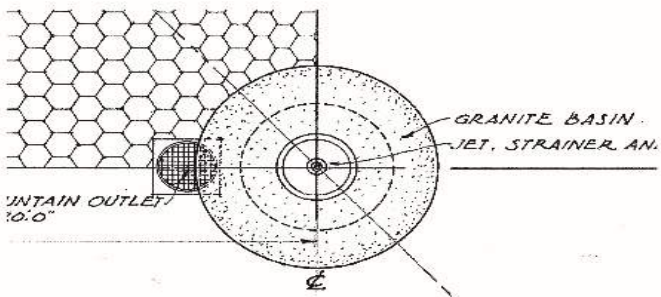
Historic Materials and Finishes to be Restored: Granite



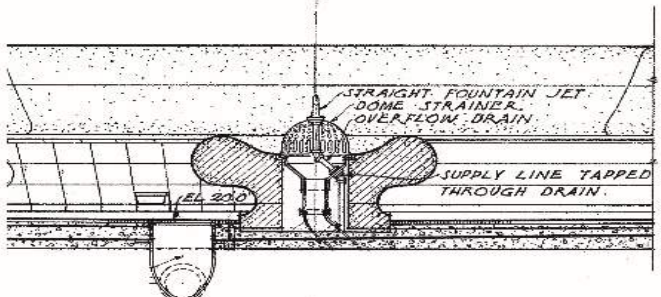
Granite Texture



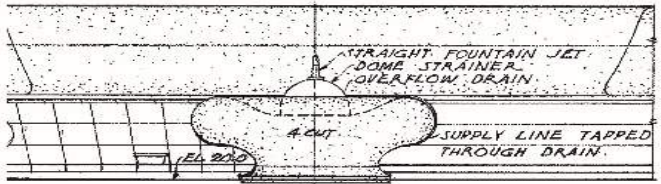
Granite Seat Pieces



Fountain Basin Plan



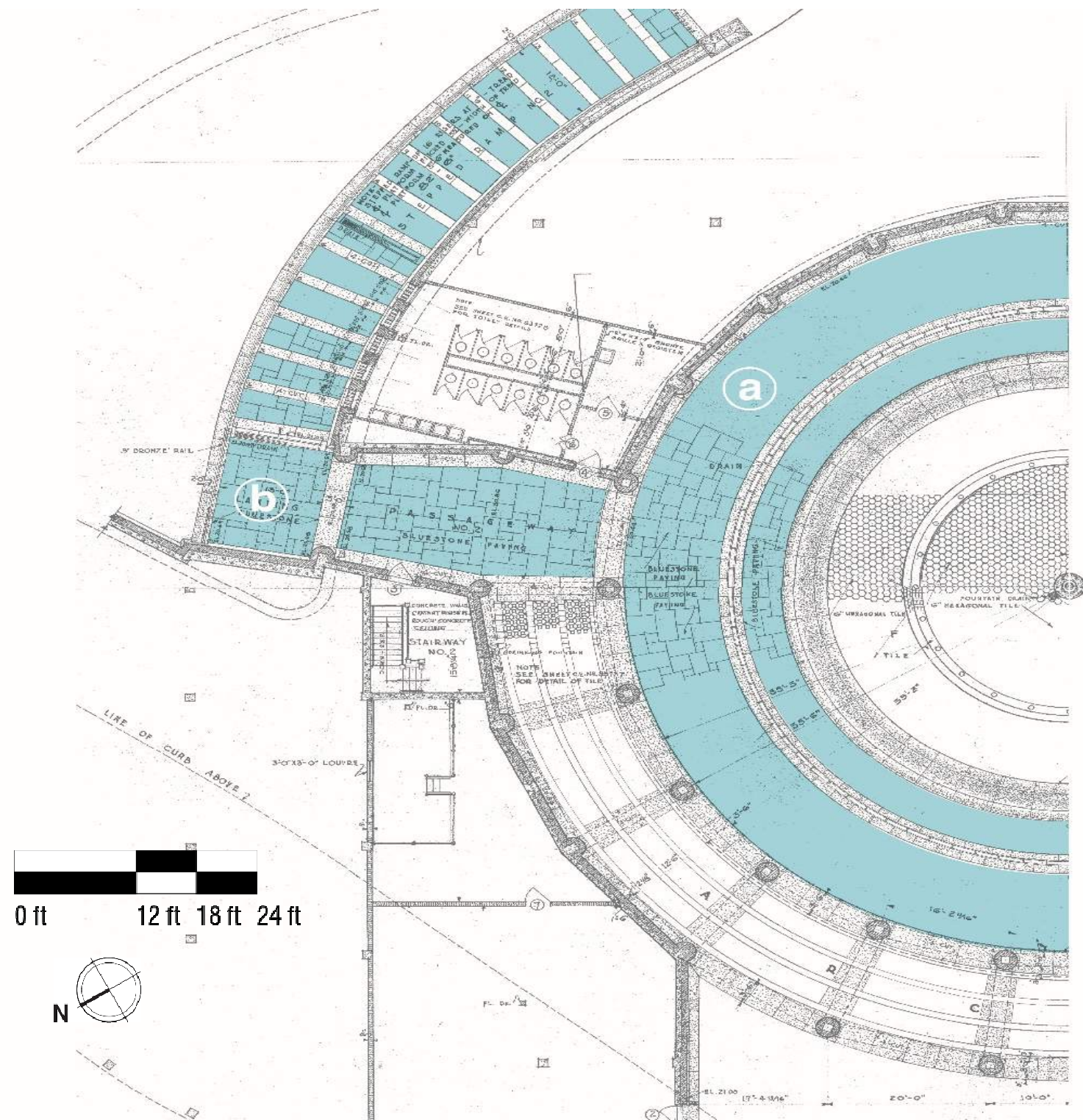
Fountain Basin Section



Fountain Basin Elevation

- a** Fountain Seating
- b** Paving
- c** Borders
- d** Spout Basin
- e** Rotunda Steps

Historic Materials and Finishes to be Restored: Bluestone



The proposed thermal bluestone aims to preserve historic appearance while providing an ADA accessible finish.

Note: All historic material to be salvaged and returned to NYC DPR for use in other locations.



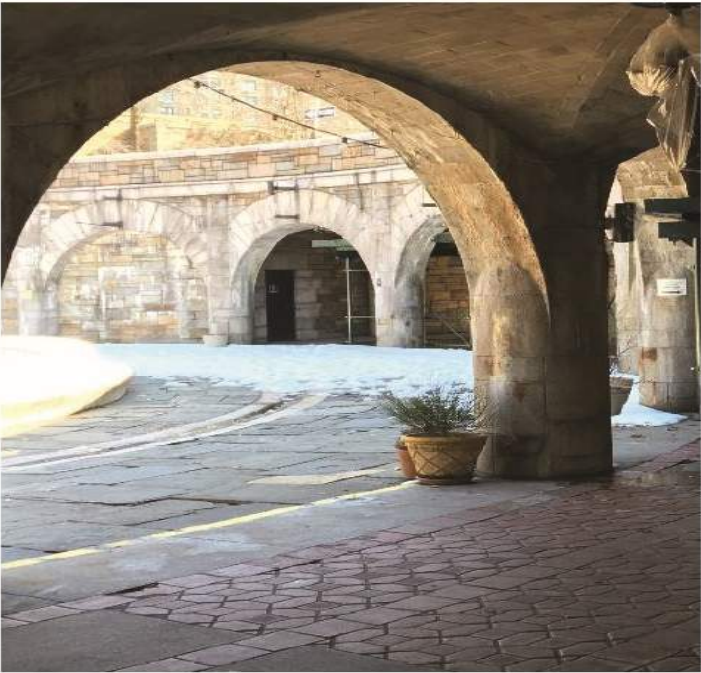
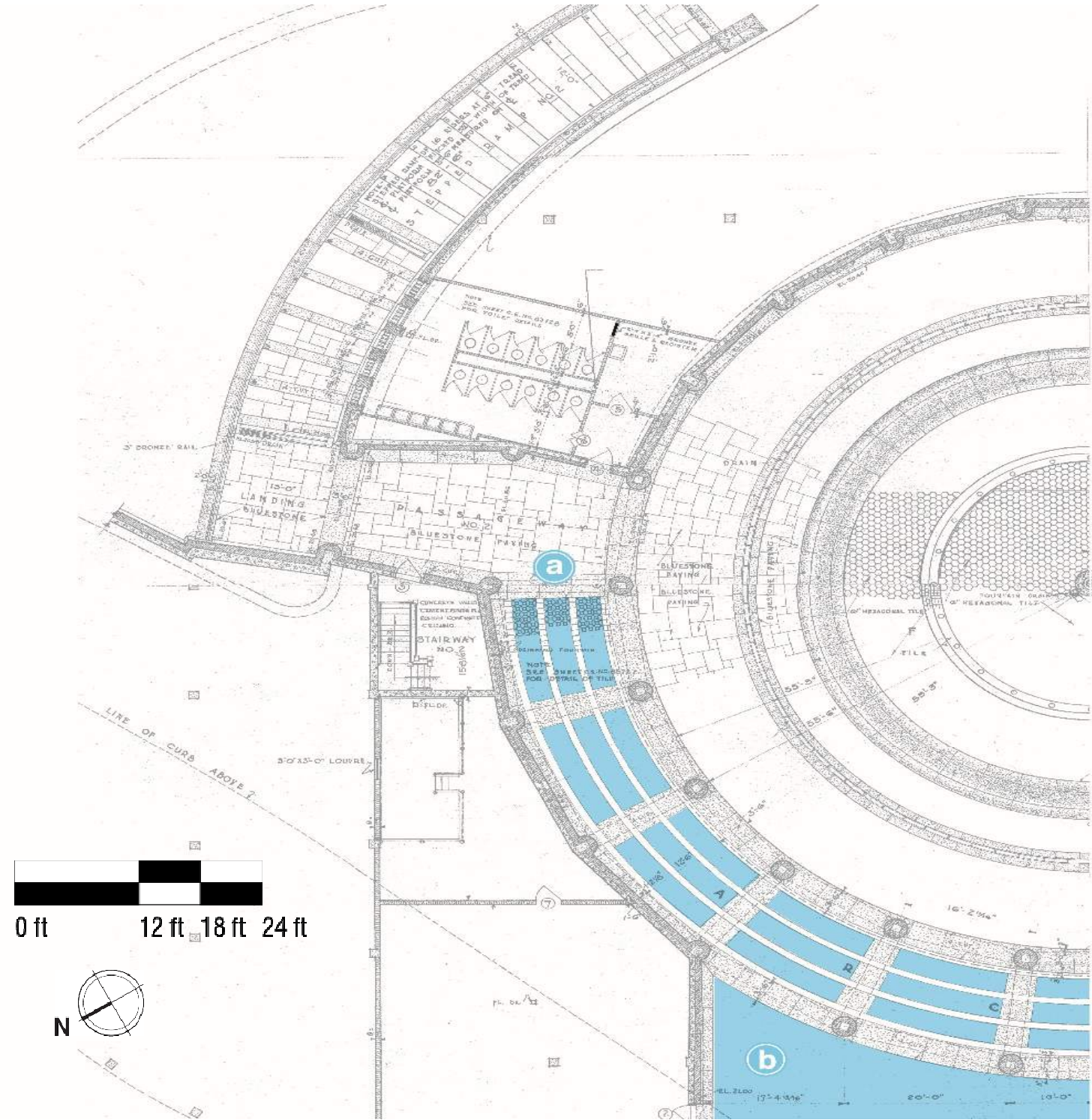
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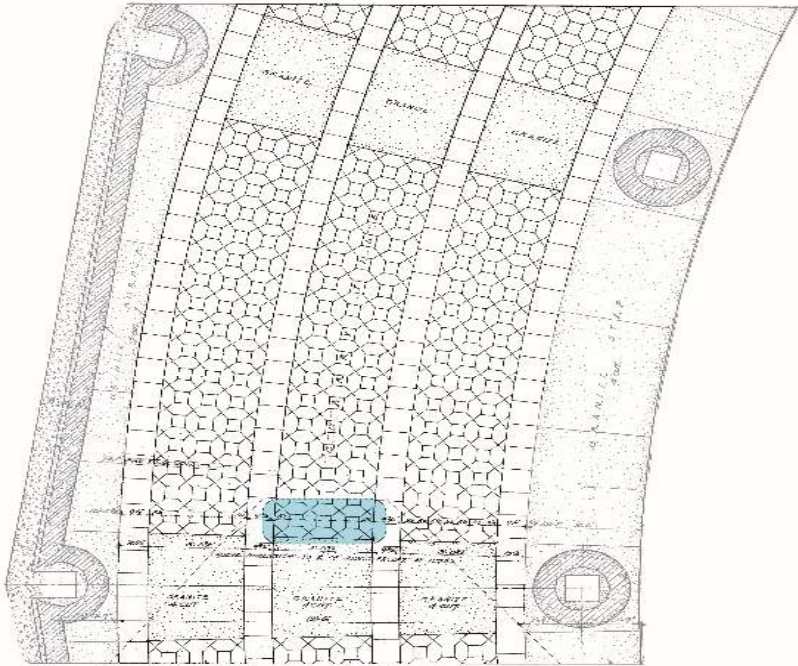
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Materials Selection
Bluestone

Historic Materials and Finishes to be Restored: Quarry Tile

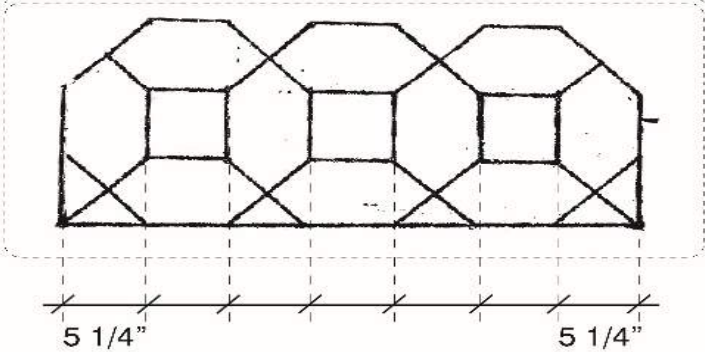


Terracotta Tile under Guastavino ceilings



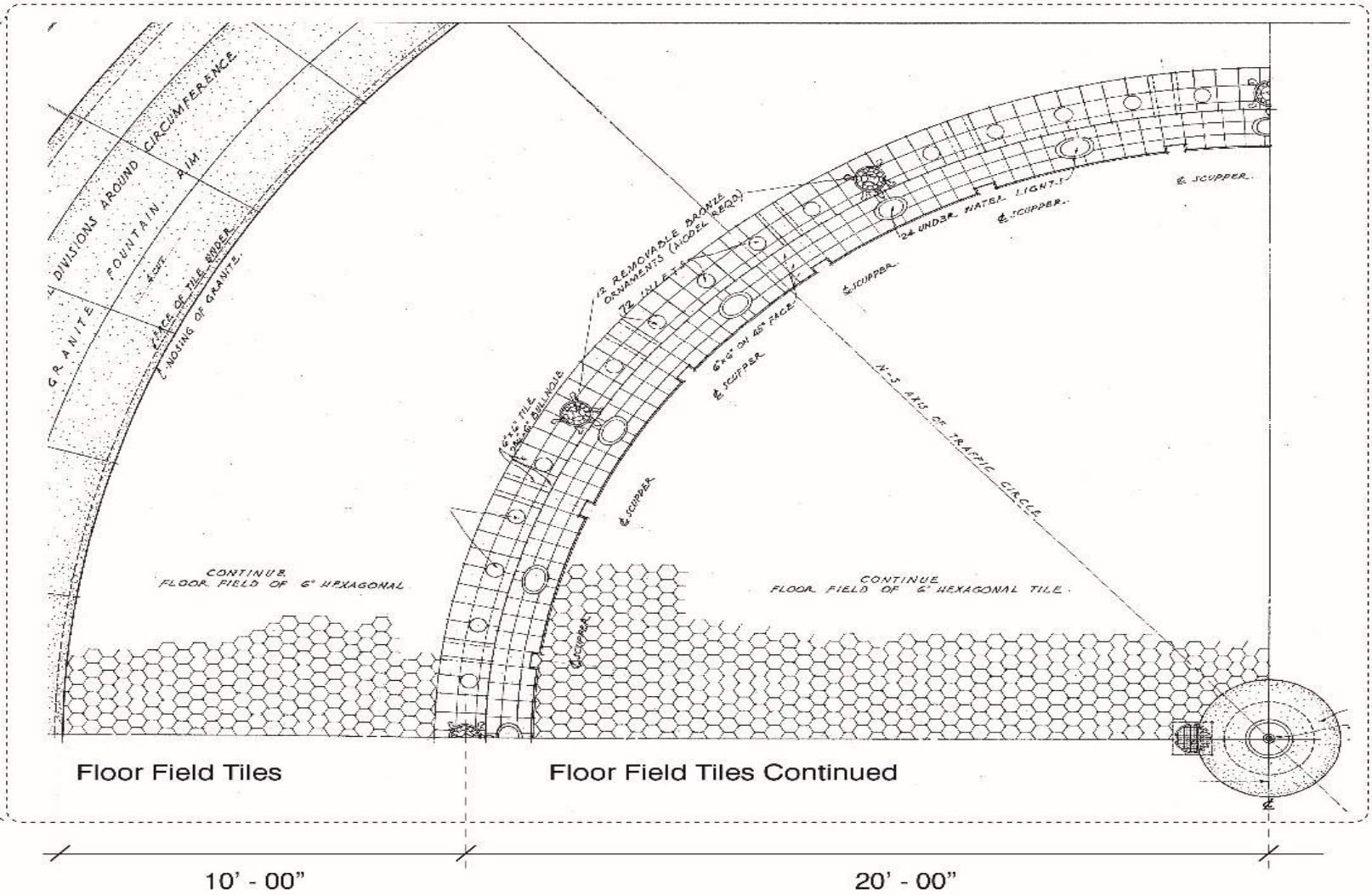
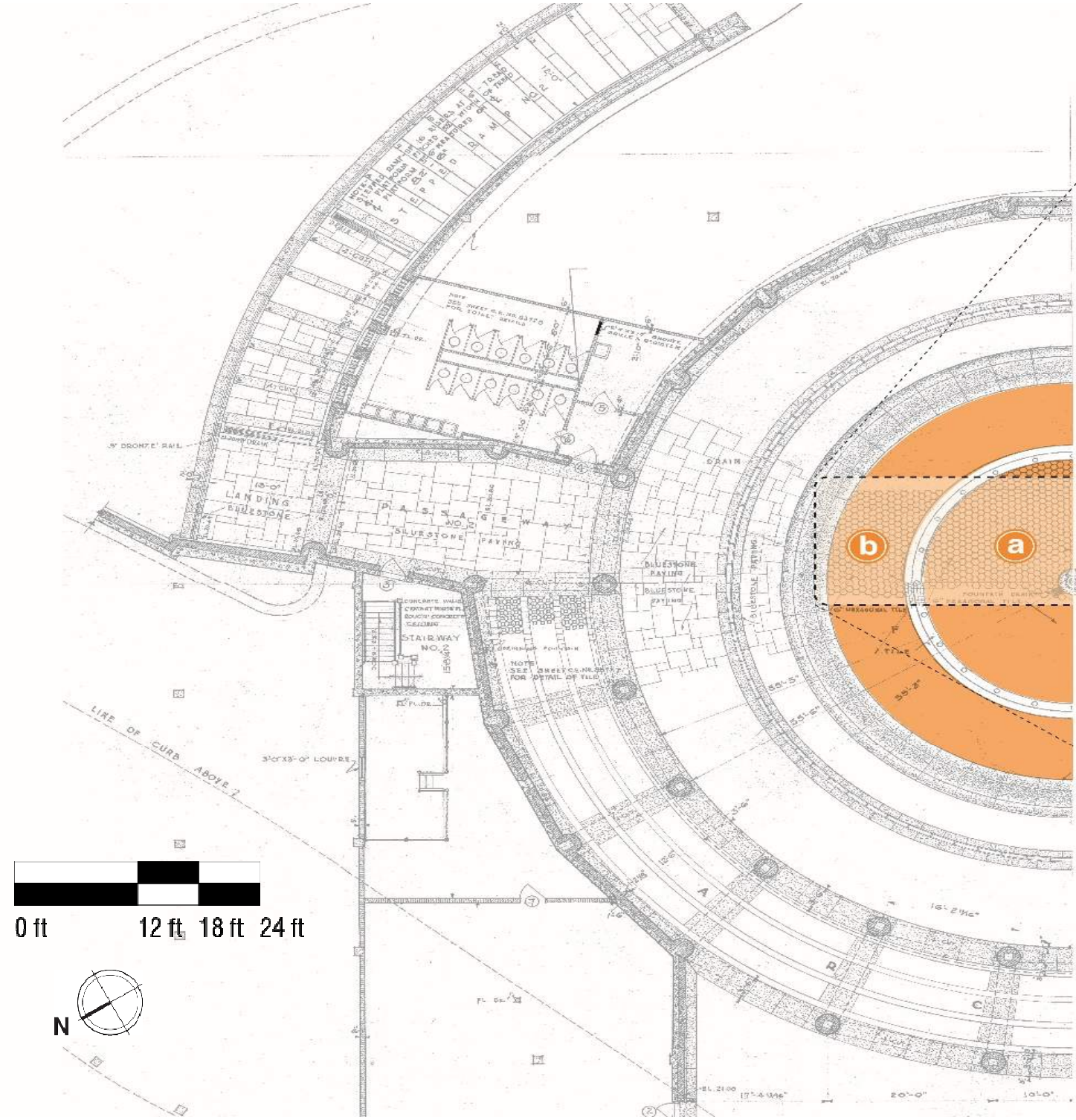
Terracotta Tile in Plan

Terracotta Quarry Tile Segment



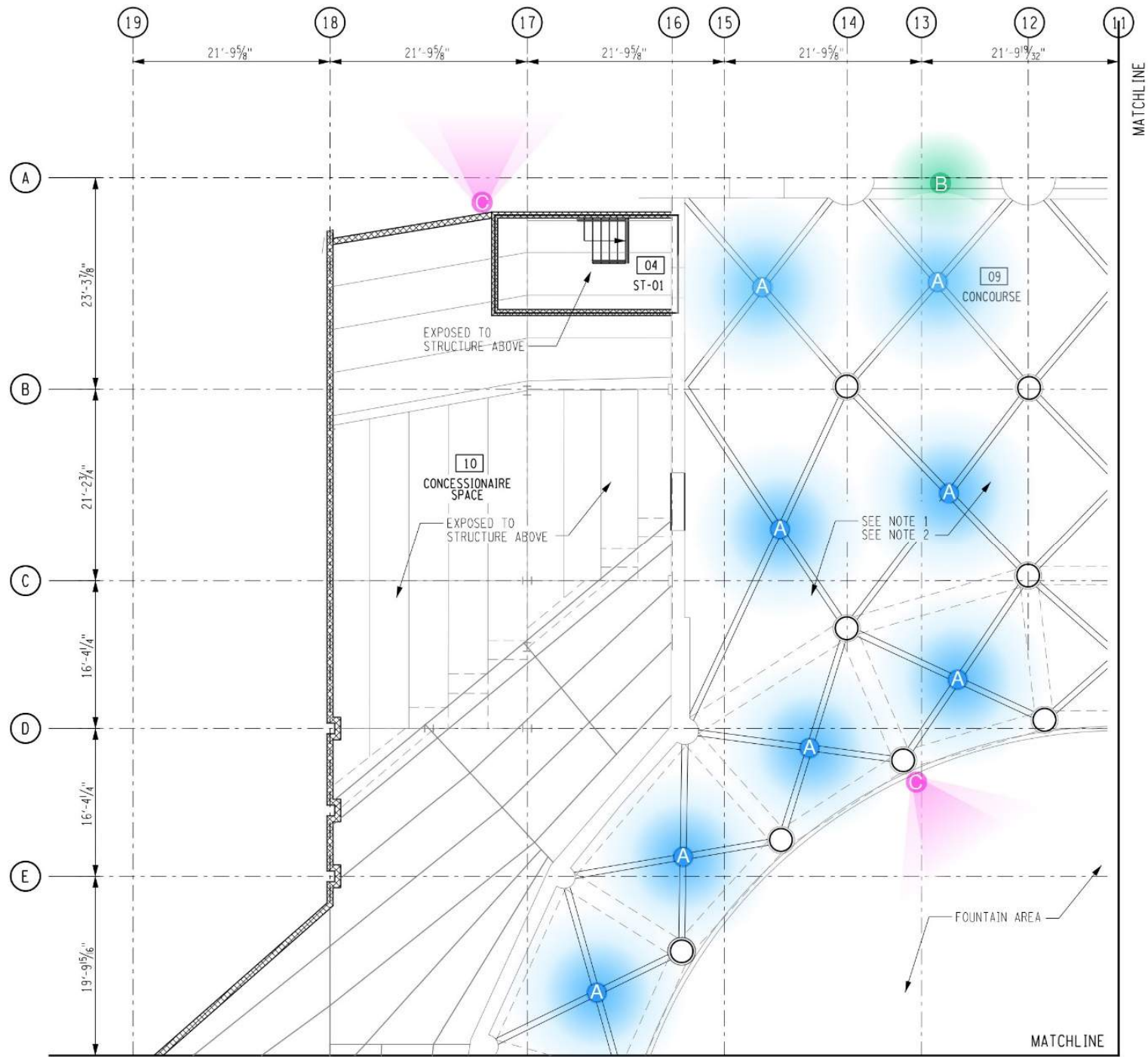
- a Quarry Tile**
- b Quarry Tile Continued**

Historic Materials and Finishes to be Restored: Hexagonal Field Stone



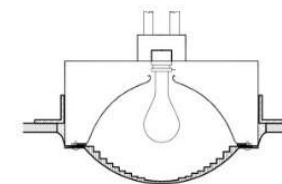
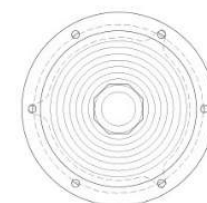
- a Hexagonal 6" Field Tile**
- b Field Tile Continued**

Historic Features to be Restored: Light Fixtures

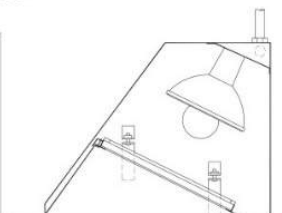
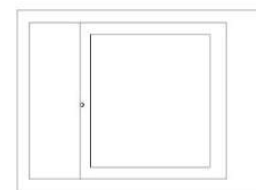


LEGEND

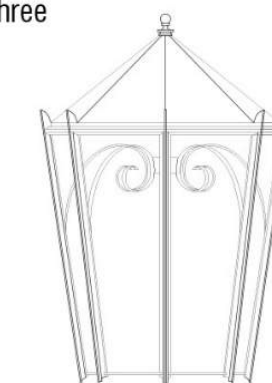
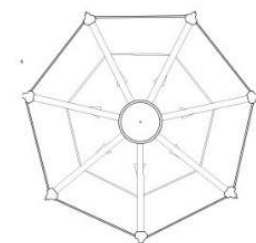
A Light Fixture Type One



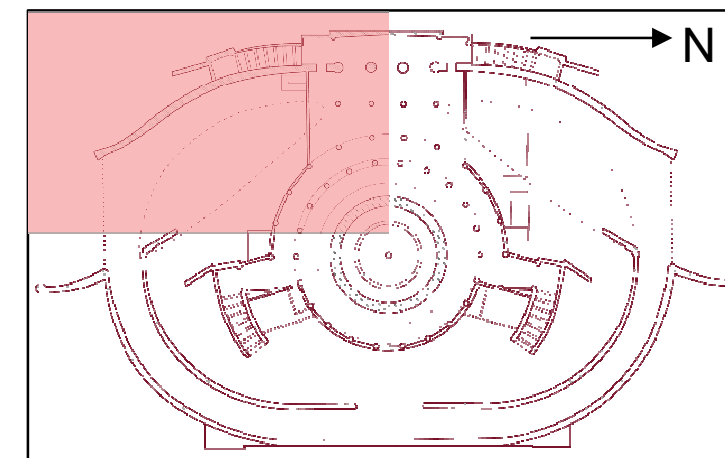
B Light Fixture Type Two



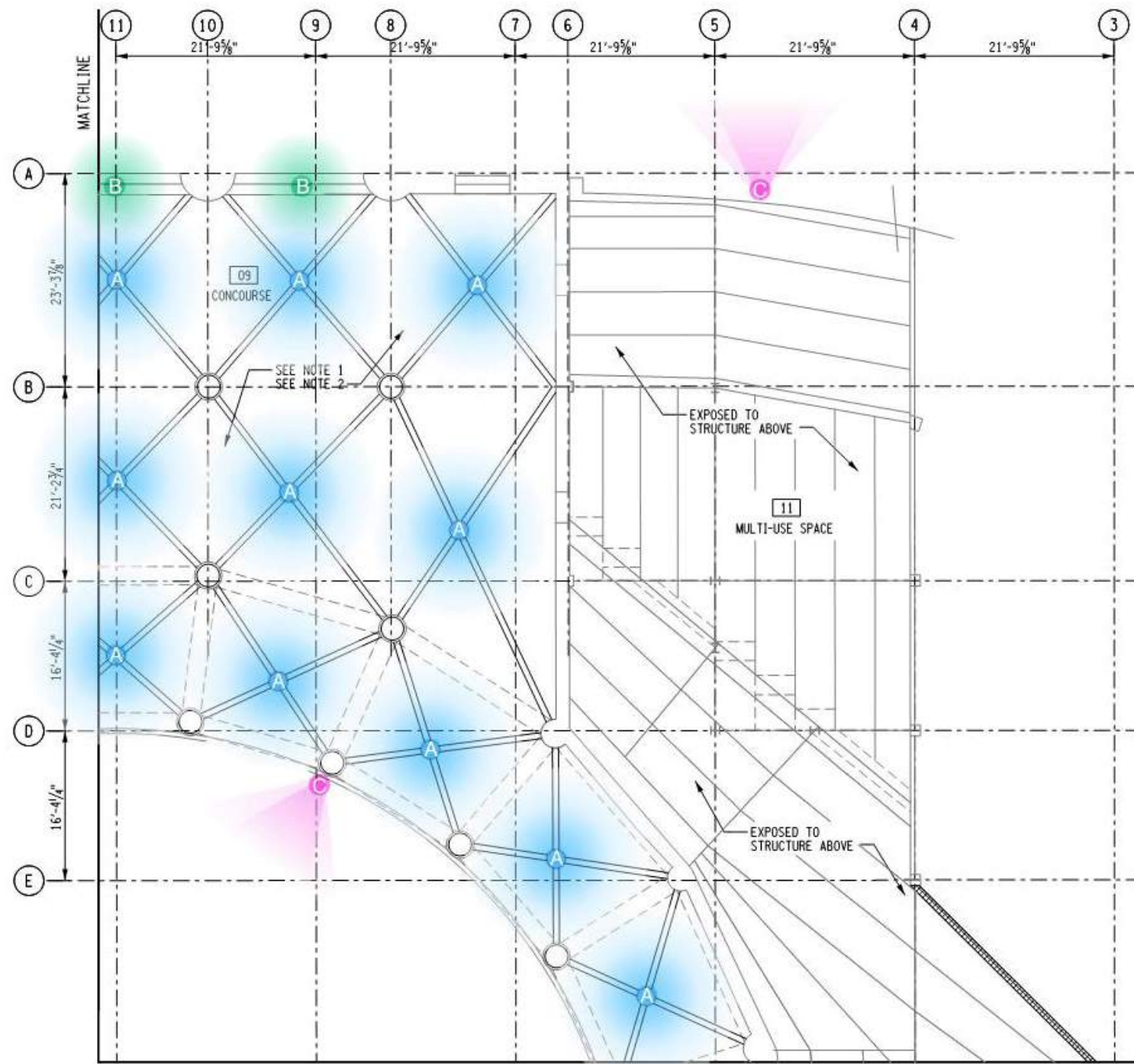
C Light Fixture Type Three



Note: Historic light fixtures are based on available information and will be reproduced by the Contractor using a performance specification in the Contract Documents.



Historic Features to be Restored: Light Fixtures



LEGEND

A

Light Fixture Type One

Reflective Plan Looking Up

Section

B

Light Fixture Type Two

Reflective Plan Looking Up

Section

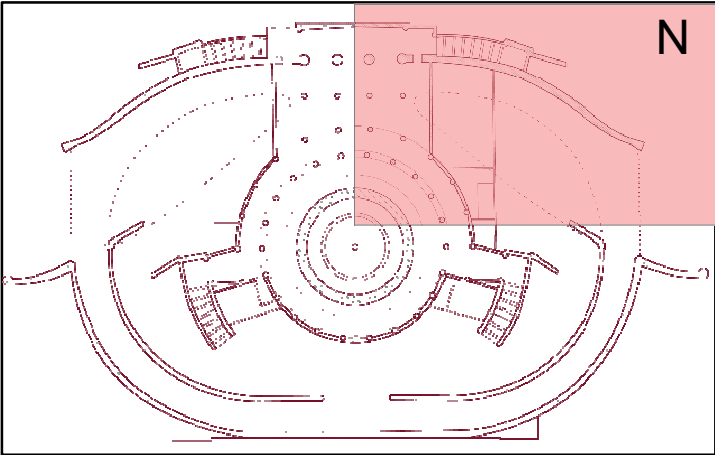
C

Light Fixture Type Three

Reflective Plan Looking Up

Elevation

Note: Historic light fixtures are based on available information and will be reproduced by the Contractor using a performance specification in the Contract Documents.

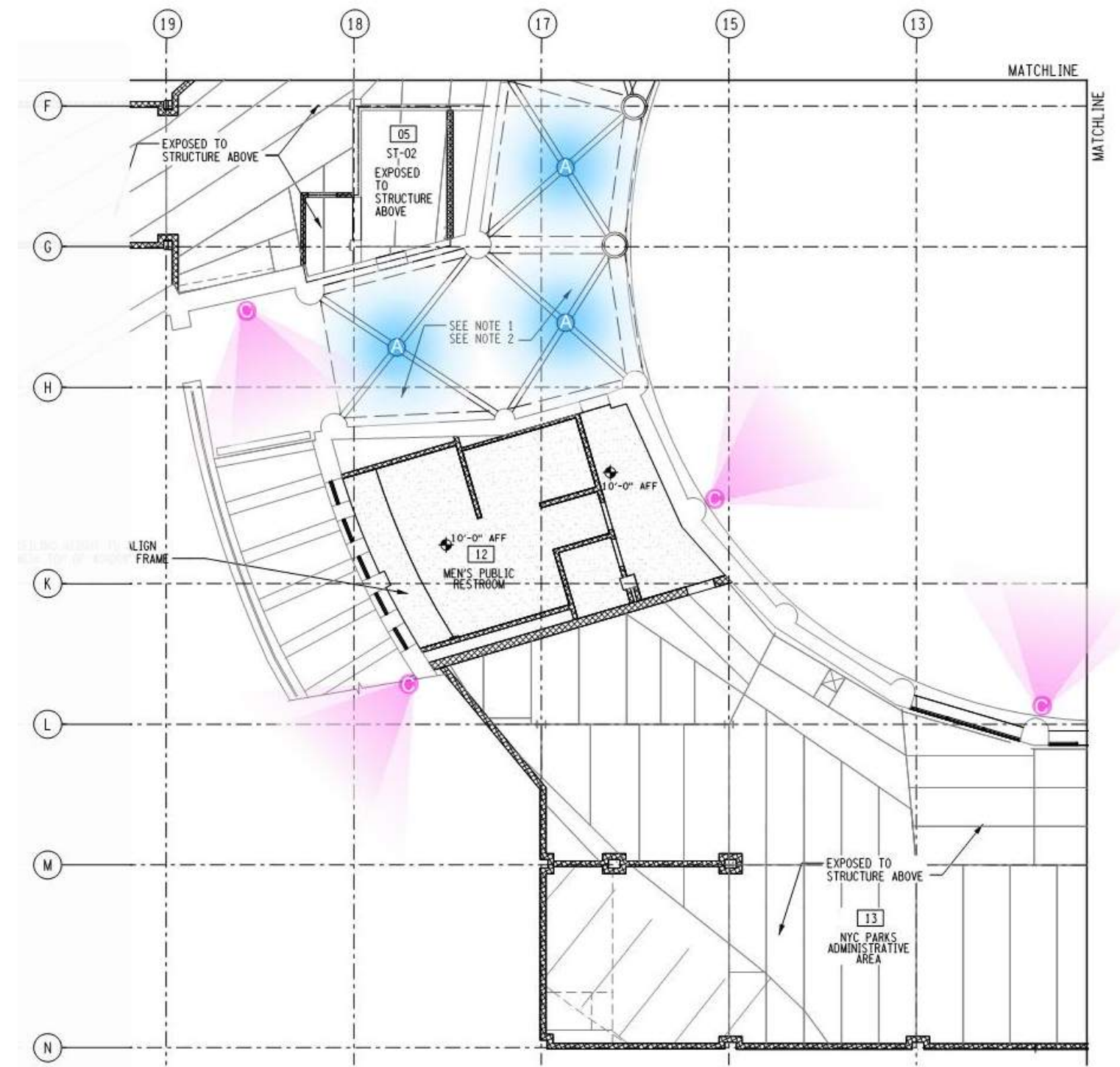


City of New York
Department of Transportation
Department of Parks and Recreation

Rehabilitation of the West 79th Street Rotunda
Complex And West 79th Street Bridge over Amtrak
June 2019

HDR|AECOM a Joint Venture

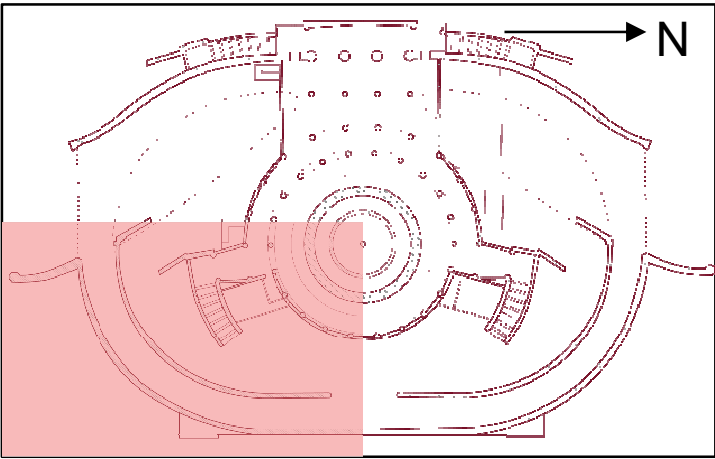
Historic Features to be Restored: Light Fixtures



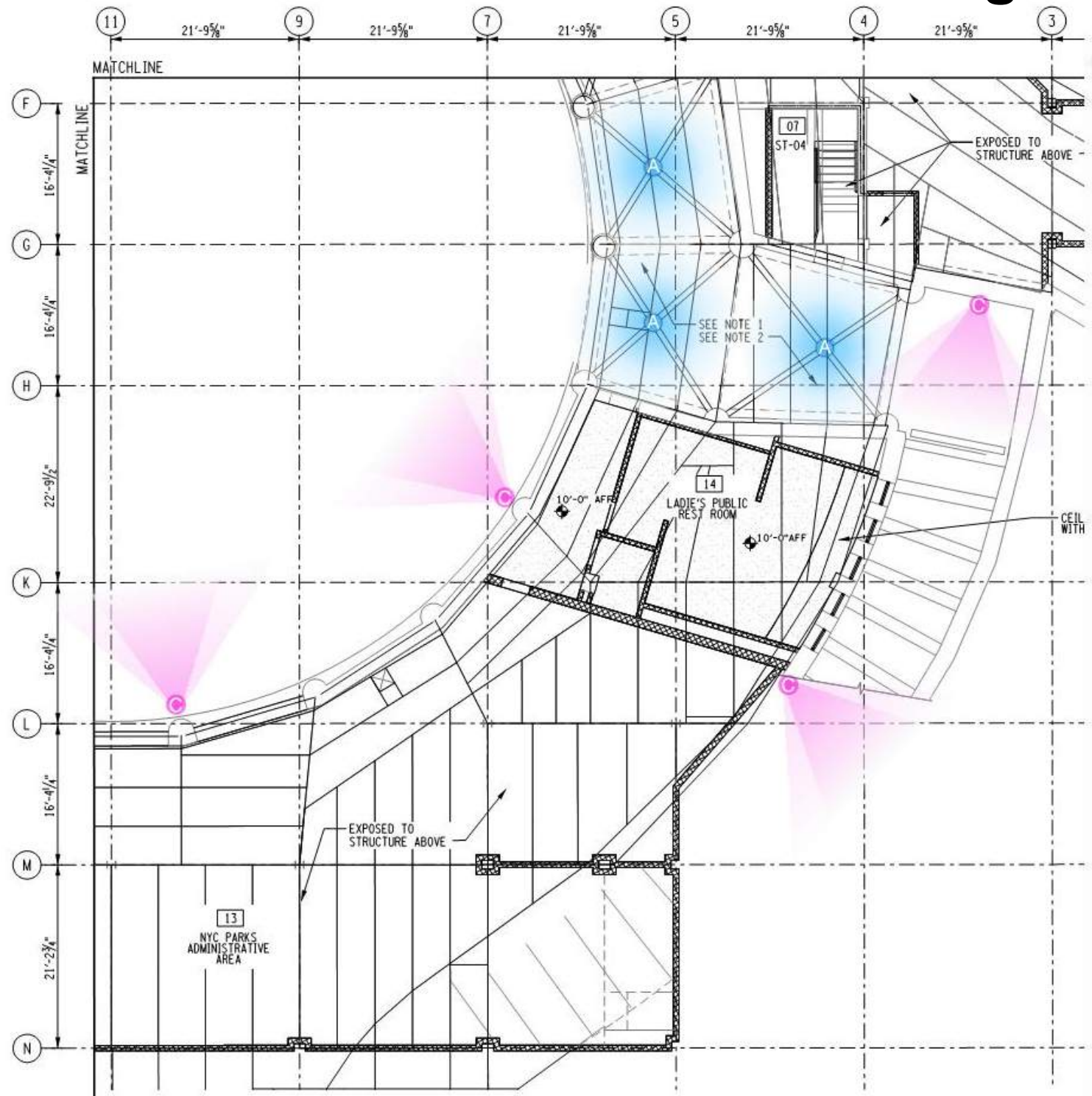
LEGEND

- A** Light Fixture Type One
Reflective Plan Looking Up
Section
- B** Light Fixture Type Two
Reflective Plan Looking Up
Section
- C** Light Fixture Type Three
Reflective Plan Looking Up
Elevation

Note: Historic light fixtures are based on available information and will be reproduced by the Contractor using a performance specification in the Contract Documents.



Historic Features to be Restored: Light Fixtures



LEGEND

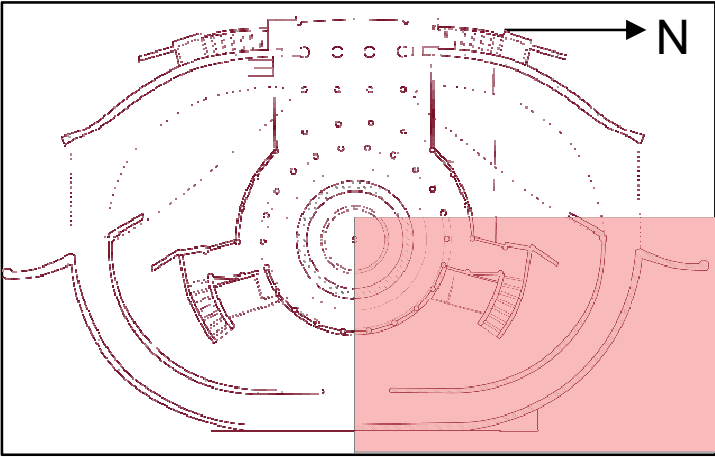
- A** Light Fixture Type One

Reflective Plan Looking Up Section
- B** Light Fixture Type Two

Reflective Plan Looking Up Section
- C** Light Fixture Type Three

Reflective Plan Looking Up Elevation

Note: Historic light fixtures are based on available information and will be reproduced by the Contractor using a performance specification in the Contract Documents.



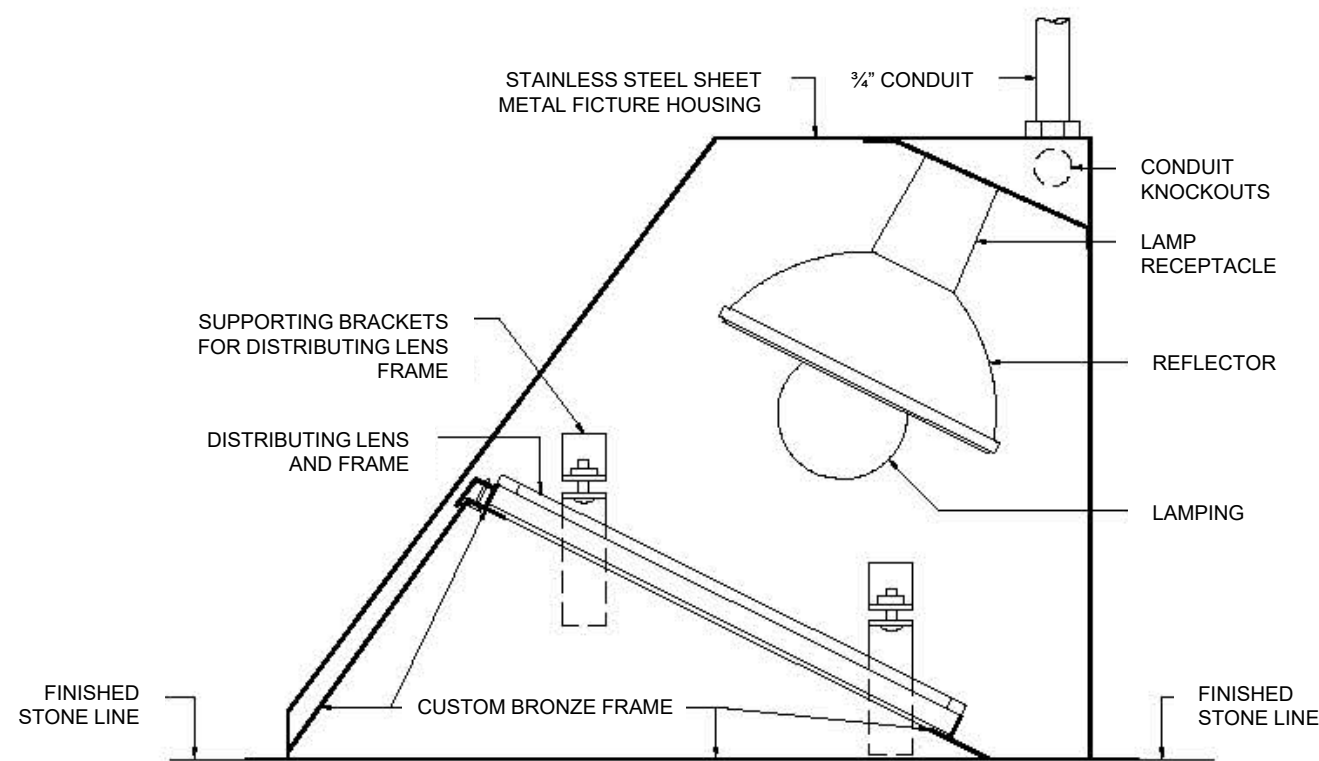
Light Fixture Type A



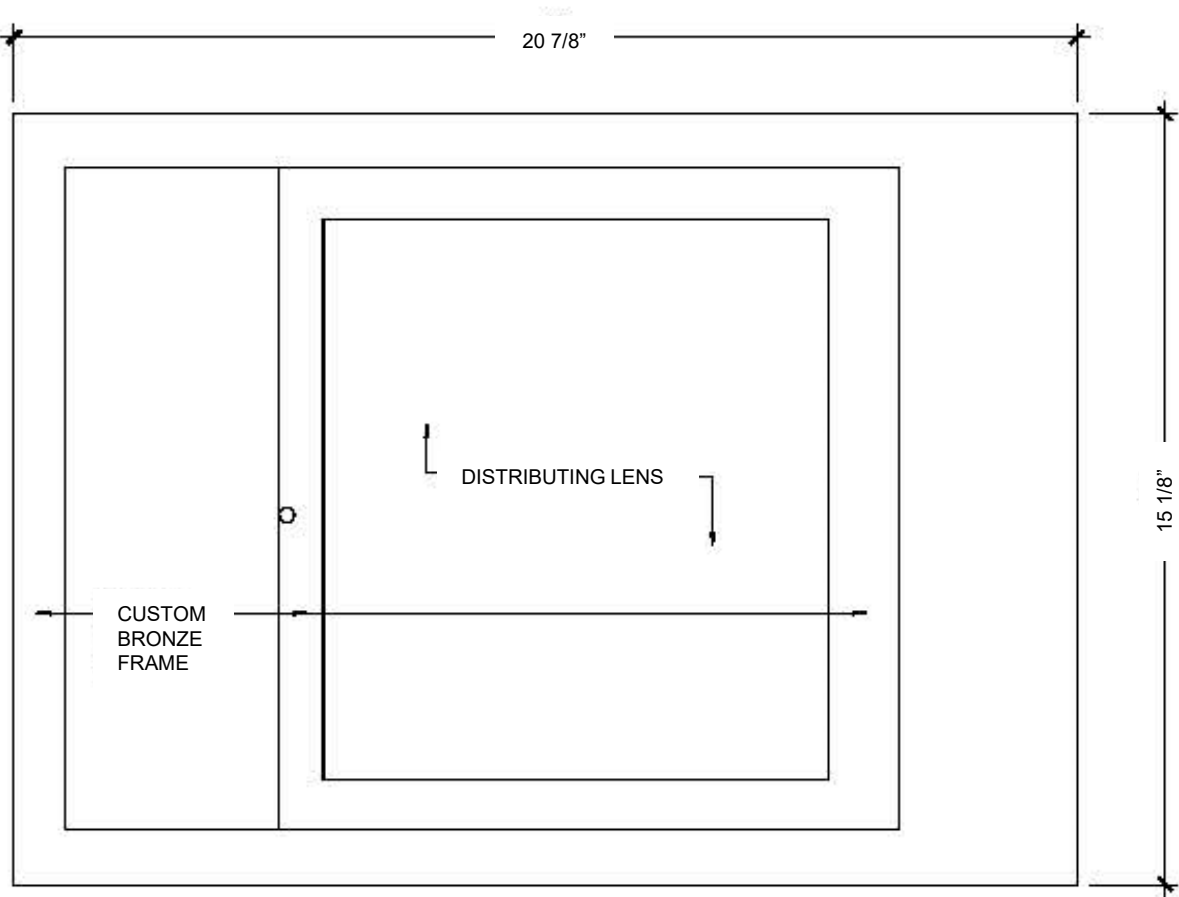
1. LIGHT FIXTURE WILL BE SPECIFIED TO REPLICATE AESTHETIC OF THE HISTORIC FIXTURES
2. THE LIGHT FIXTURE WILL MEET CURRENT NYC CODE REQUIREMENTS FOR LIGHT LEVELS AND ENERGY COMPLIANCE

Historic Features to be Restored: Light Fixtures

Light Fixture Type B



Section



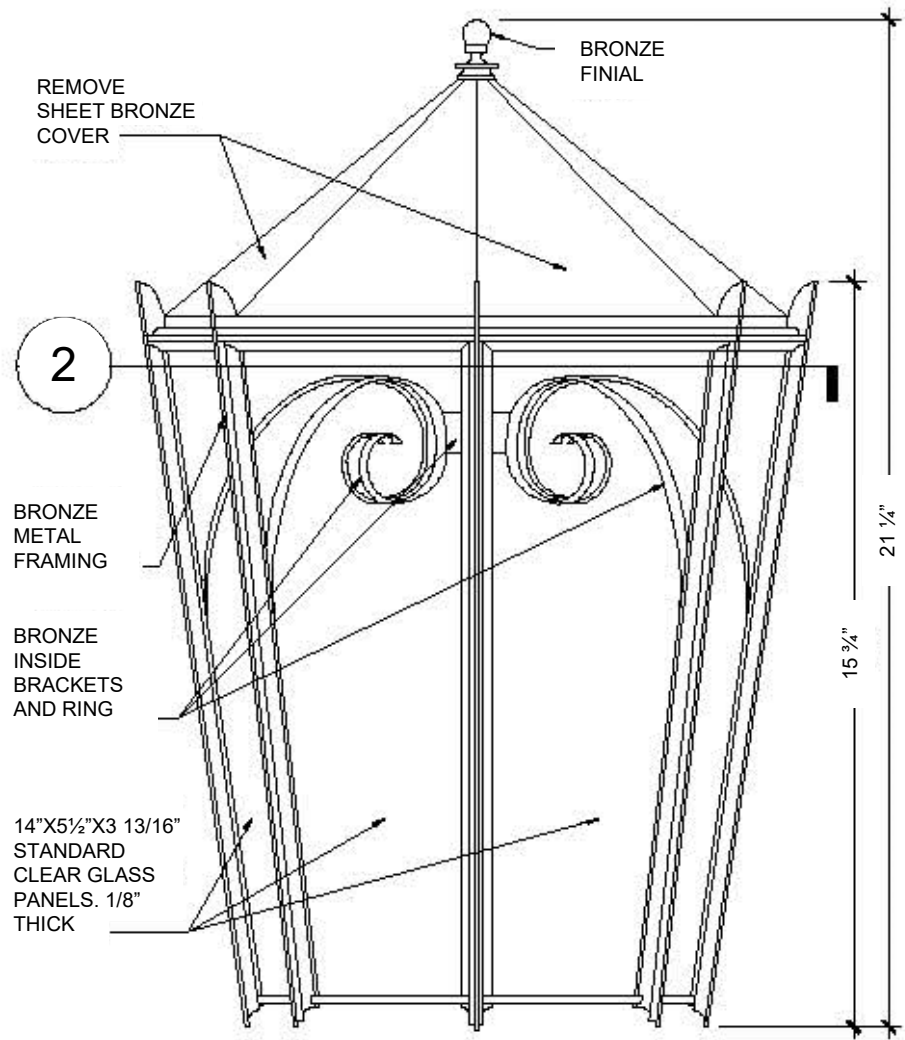
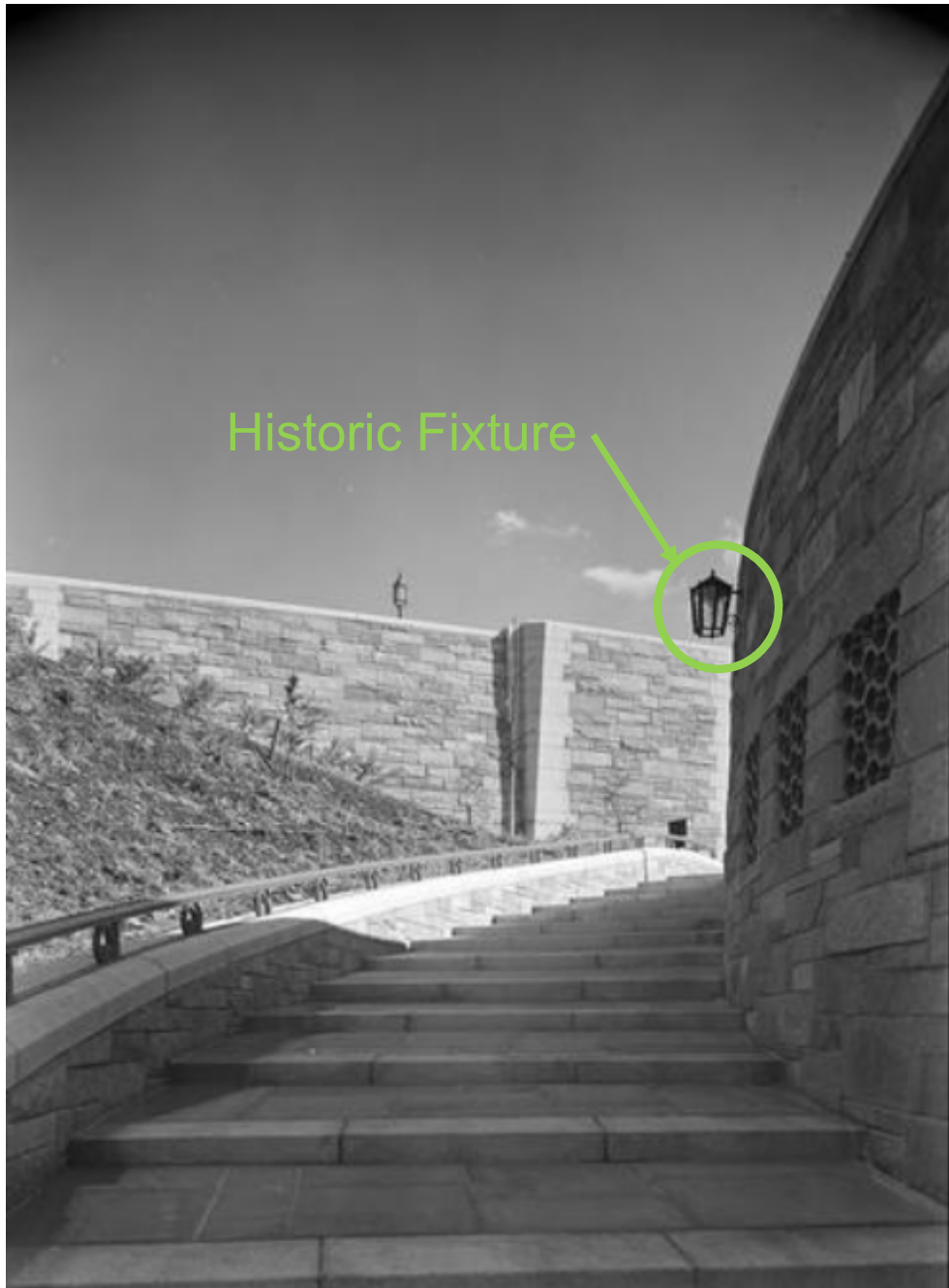
Reflected Plan Looking Up

NOTE:

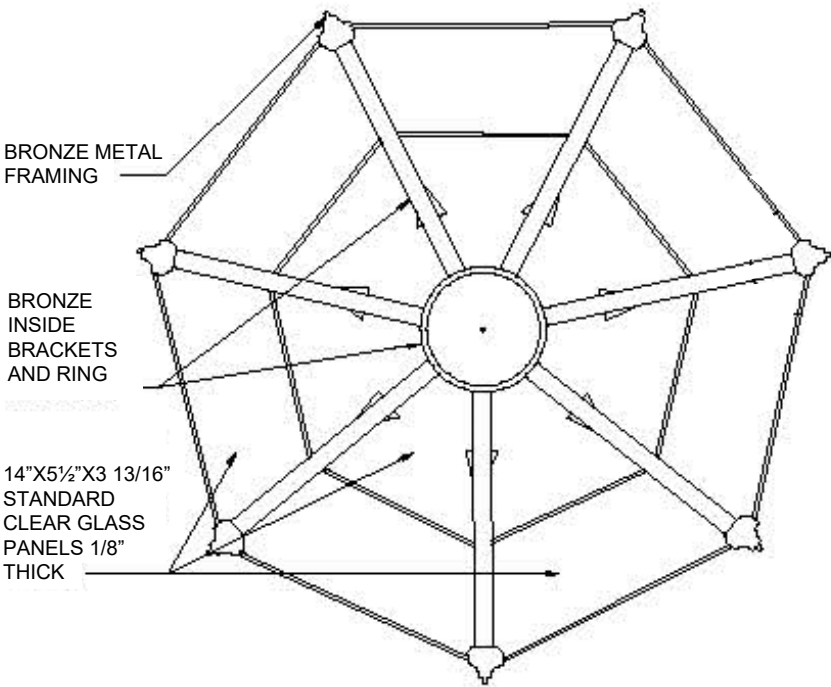
1. LIGHT FIXTURE WILL BE SPECIFIED TO REPLICATE AESTHETIC OF THE HISTORIC FIXTURES
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Historic Features to be Restored: Light Fixtures

Light Fixture Type C



Elevation



Reflected Plan Looking Up

- NOTE:
- 1. LIGHT FIXTURE WILL BE SPECIFIED TO REPLICATE AESTHETIC OF THE HISTORIC FIXTURES
 - 2. THE LIGHT FIXTURE WILL MEET CURRENT NYC CODE REQUIREMENTS FOR LIGHT LEVELS AND ENERGY COMPLIANCE