



301 Ocean Drive Miami Beach, FL

June 14, 2022

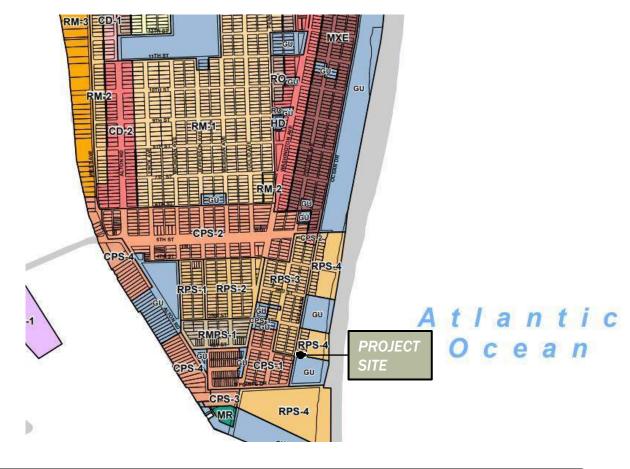
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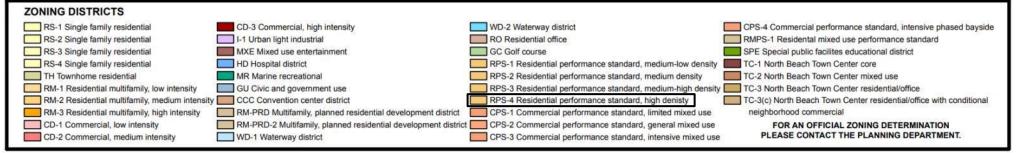
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Location Map



- The building was originally constructed circa 1967.
- The architectural design was completed by Melvin Grossman, A.I.A.
- The structural design was completed by Bliss and Nyitray Consulting Engineers





Scope and Purpose of Request

Request No. 1

• COA for removal and replacement of the existing precast concrete balcony and catwalk guardrails with a lighter aluminum system that mimics these elements.

<u>Purpose</u>

- Throughout the current restoration project, Thornton Tomasetti has observed damage at the balcony and catwalk guardrails.
- In addition, Thornton Tomasetti has observed damage and deterioration at the existing slabs, as well as differences between the as-built condition and the original structural design.
- The as-built load carrying capacity, combined with the current state of the existing guardrails, structurally warrants replacement of the guardrails with a well-connected lighter aluminum system.

- Material: Lighter assembly in keeping with code/load requirements for handrails.
 - Cast in place and precast concrete infeasible due to ACI code requirements for coverage, anchorage, and the like.
 - Aluminum is the standard and most feasible option.
- Style: Match existing style of the building.
 - Motif 1: Existing Solid Concrete Guardrails
 - Having a lighter assembly requires openings to reduce the wind load considerations on the assembly, so completely solid panels were infeasible.
 - Motif 2: Decorative Precast Concrete Railings
 - Existing assemblies do not have code-compliant spacing, so the spacing needed to be modified to comply with current codes.
- Color: Match existing color at the building using high-performance coatings.
- Durability and accessibility for repairs.

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Design Approach



Motif 1: Existing Solid Guardrails

Motif 2: Decorative Precast Concrete Railings

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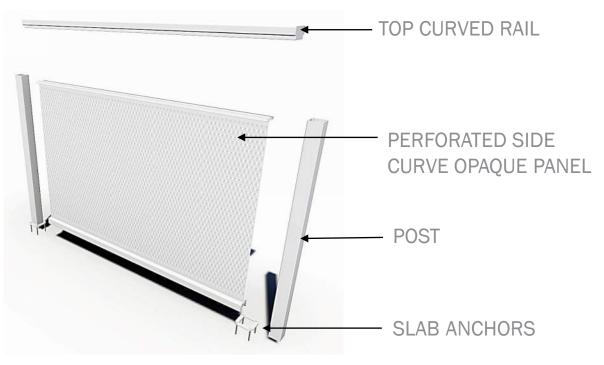
Proposed Opaque Panel



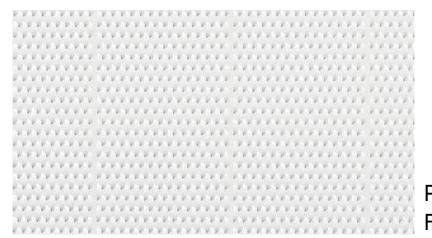
OVERALL ASSEMBLY



PANEL OPENING SIDE VIEW



EXPLODED ISOMETRIC



PANEL OPENING FRONT VIEW

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Existing North Catwalk Guardrail Condition



Existing catwalk prior to restoration



Unbonded concrete and corroded reinforcement



Distressed concrete and exposed / corroded reinforcement



Unbonded concrete and corroded reinforcement

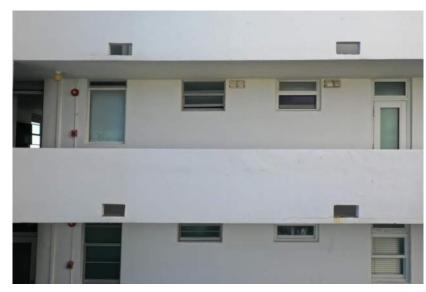
Existing North Catwalk Guardrail Design



Partial North Catwalk Elevation



Partial North Catwalk Elevation

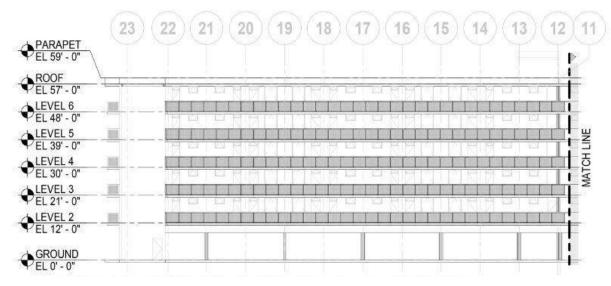




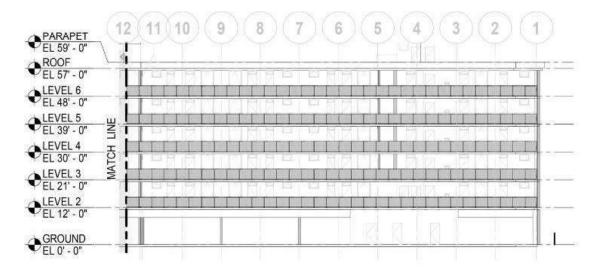
Existing Catwalk Guardrails

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Proposed North Catwalk Guardrail Design



Partial North Catwalk Elevation

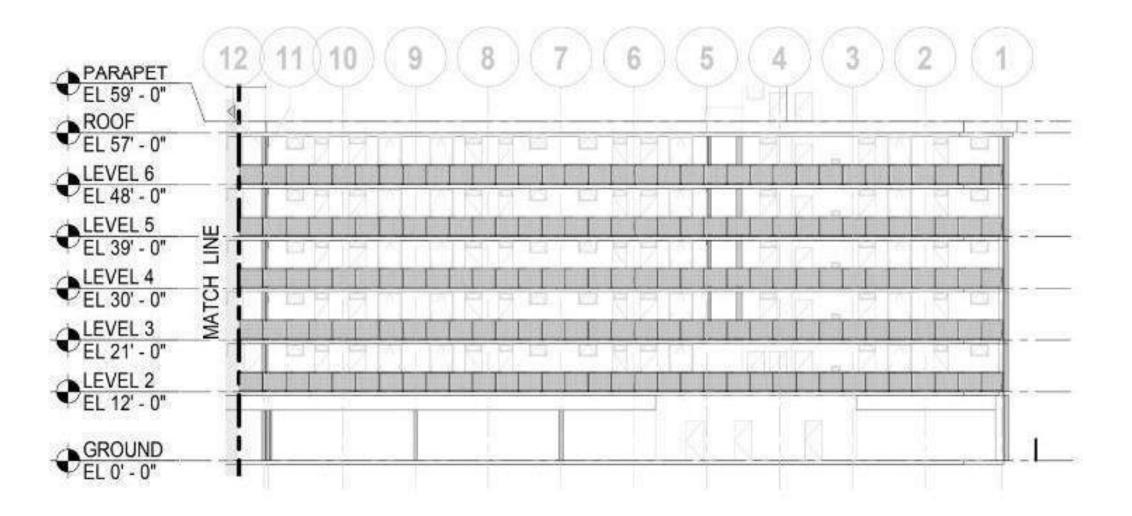


Partial North Catwalk Elevation

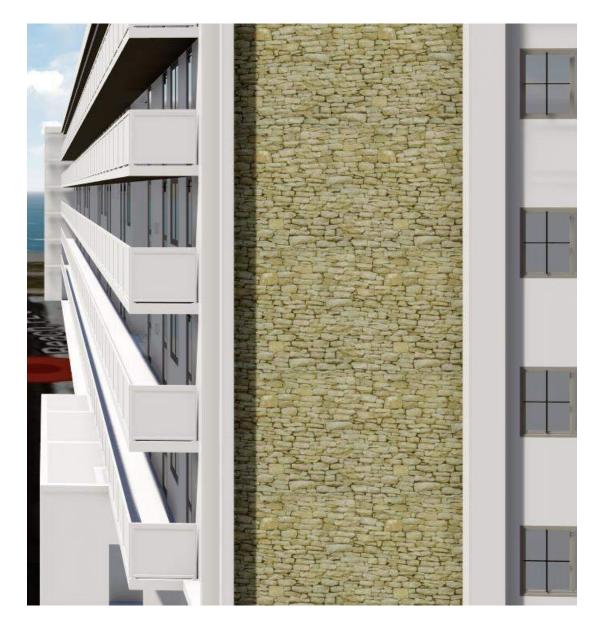


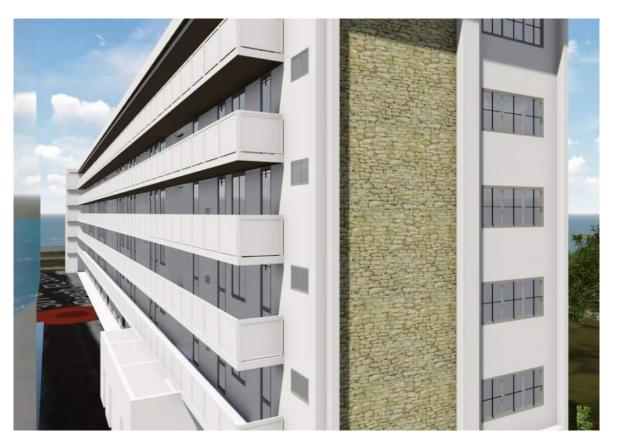
North Catwalk Rendering

Proposed North Catwalk Guardrail Design



Proposed North Catwalk Guardrail Design





Existing South Balcony Guardrail Design



Partial South Elevation



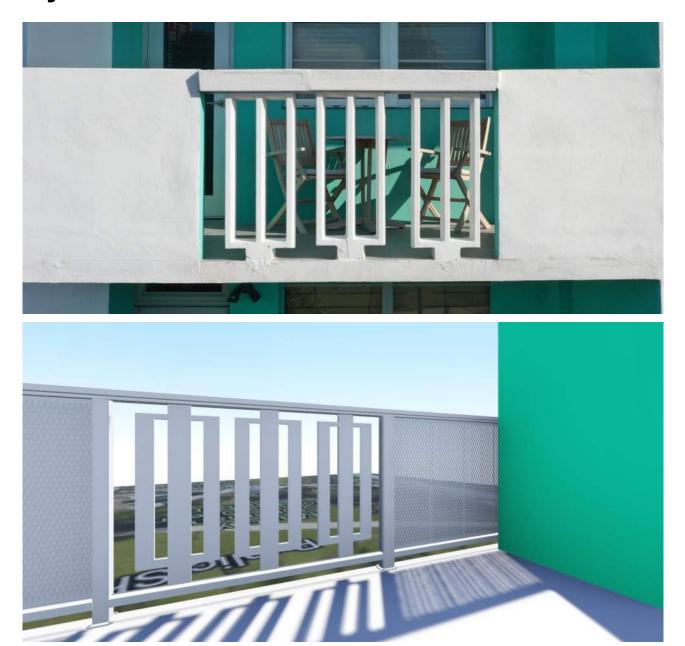
Partial South Elevation



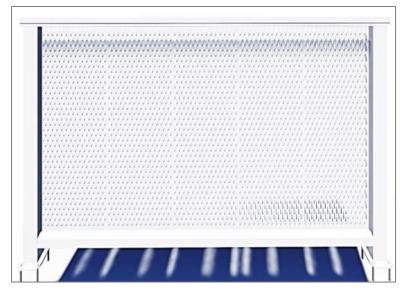
Existing Balcony Guardrails

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Proposed Balcony Combination Panels

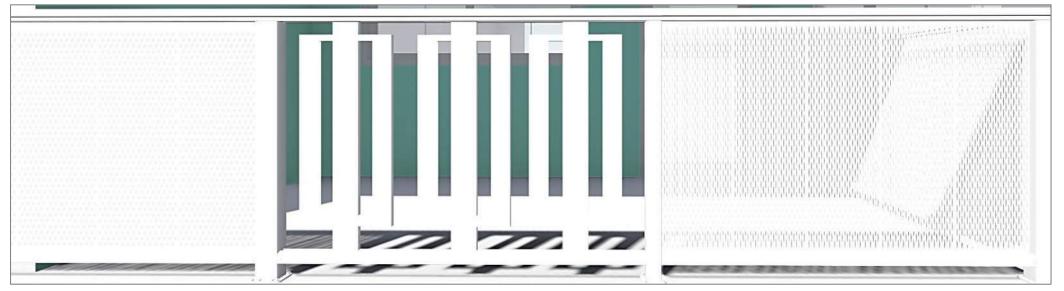


Proposed Balcony Combination Panels



OPAQUE PANEL

EXISTING DESIGN PANEL



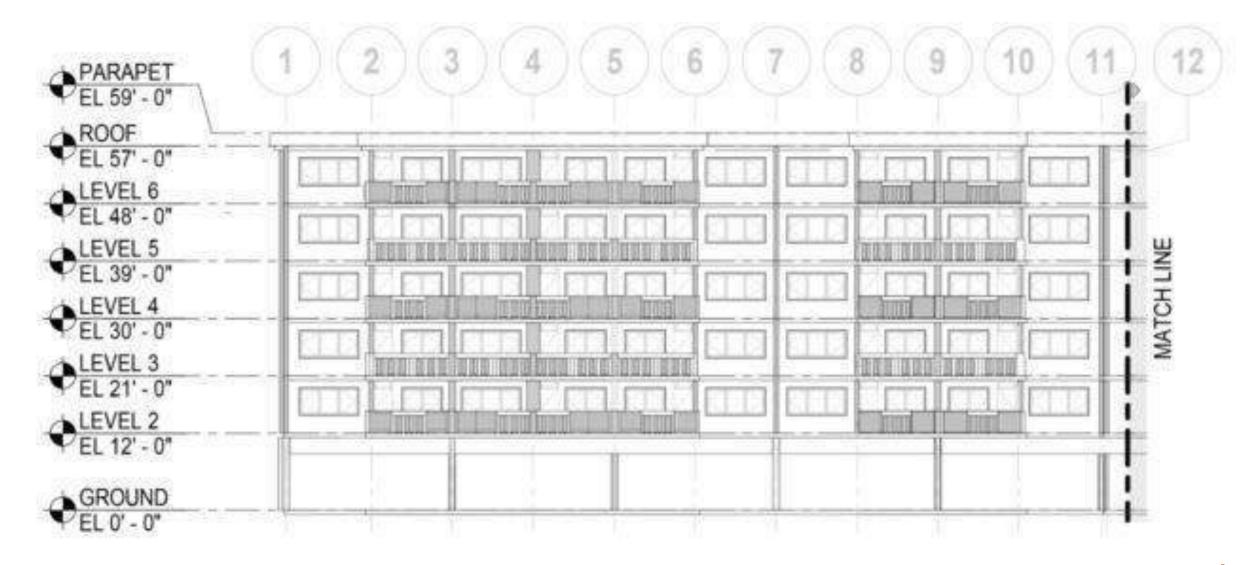
Proposed South Balcony Guardrail Design

Partial South Elevation



South Elevation Rendering

Proposed South Balcony Guardrail Design



Proposed South Balcony Design

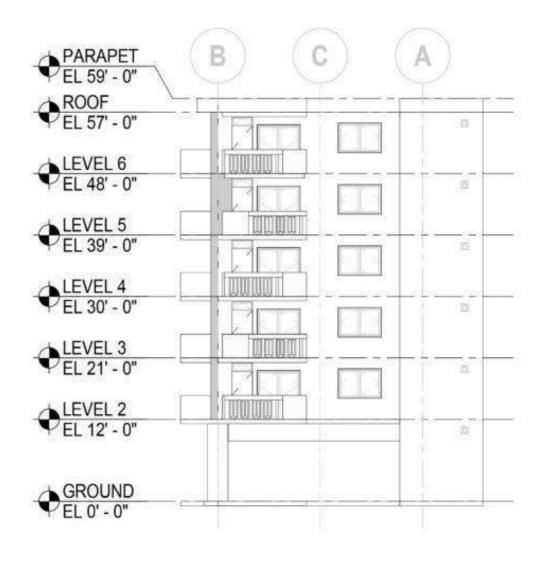






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Existing East Balcony Guardrail Design



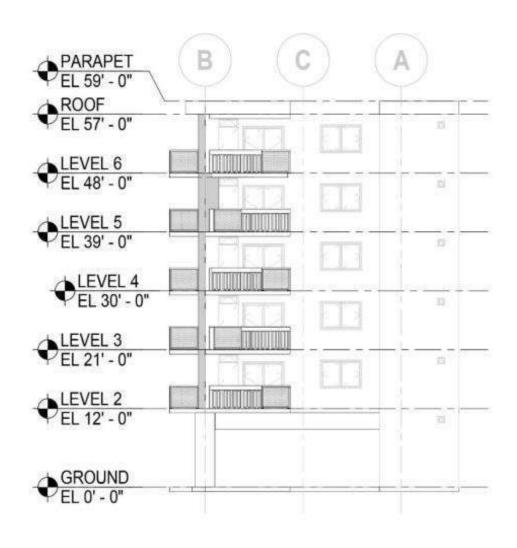
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Existing East Elevation

Existing Balcony Guardrails

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Proposed East Balcony Guardrail Design



Proposed East Elevation



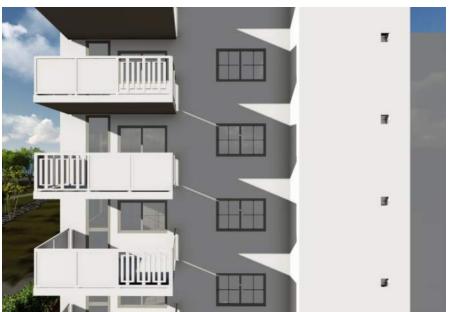
Proposed Balcony Guardrails

Proposed East Balcony Design



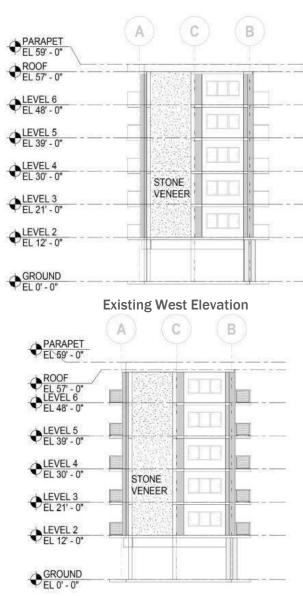






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Existing & Proposed View at West Elevation



Proposed West Elevation



West Elevation Rendering

Proposed Overall Design









Reference Buildings

401 OCEAN DRIVE





1357 COLLINS AVENUE





www.ThorntonTomasetti.com