Mount Sinai
MEDICAL CENTER

# Parking Garage & Cancer Center

4/5/22

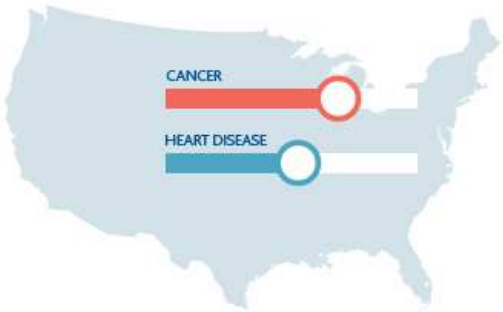
# MSMC Mission

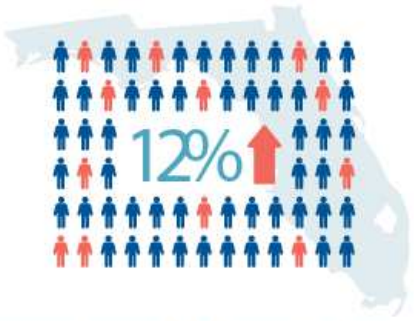
**Our Mission:** To provide high quality healthcare to our diverse community enhanced through teaching, research, charity care and financial responsibility.

## Addressing South Florida's Limited Resources and Growing Demand

### Cancer Is Killing More Americans

In the U.S., cancer is expected to surpass heart disease as the leading cause of death.




### Cancer Cases Are Rising in Our Community

In South Florida, the number of cancer cases is expected to increase by 12% before the end of this decade.

Along with the increase in cancer cases, the need for treatment will grow too.

### We Are Facing a Physician Shortage

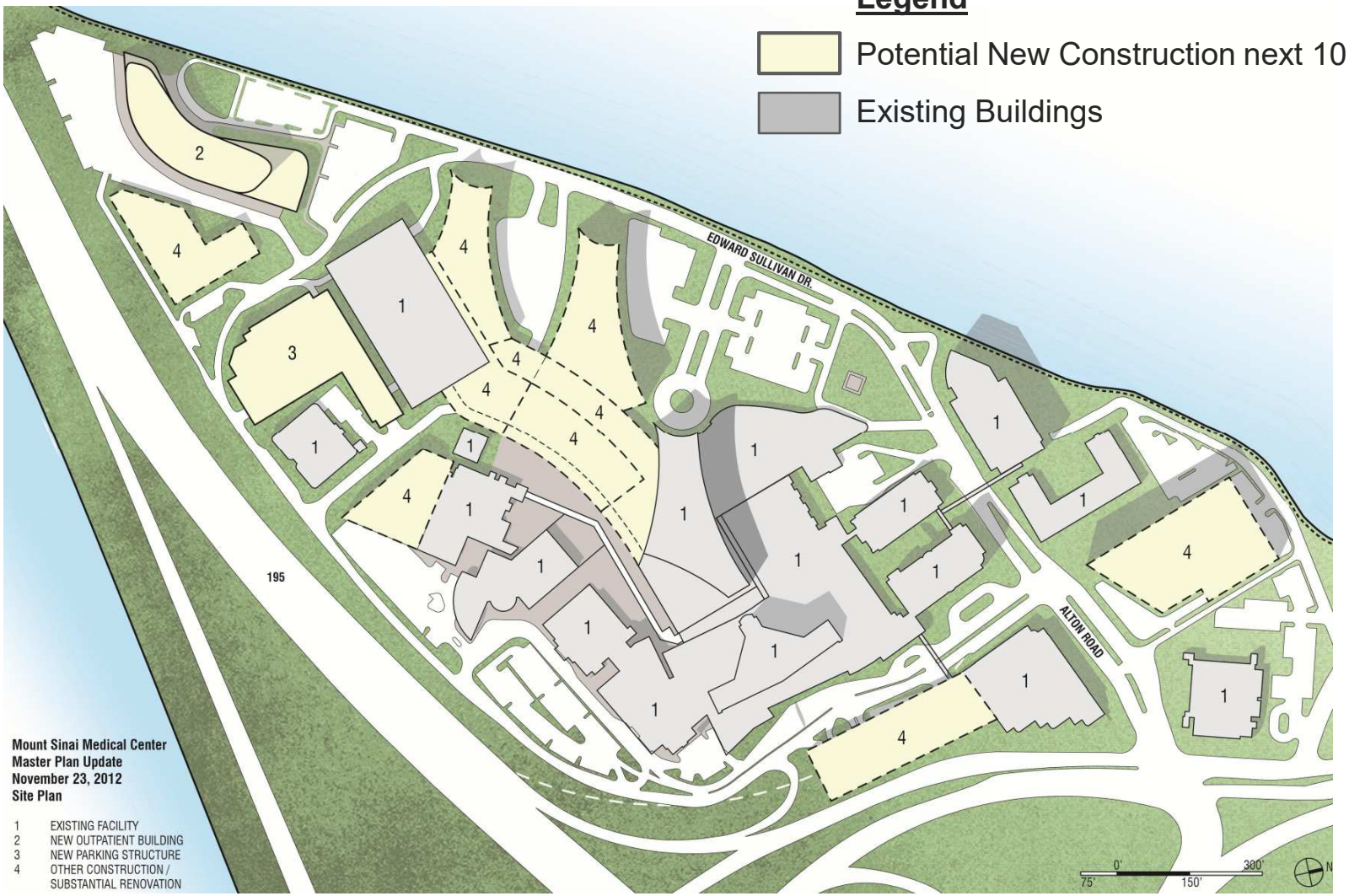
As our community grows and cancer incidences rise, there will be a greater need for access to high-quality, expert physicians.

The Braman Cancer Center will aid in addressing the looming physician shortage across a variety of cancers, including the following:

- Bladder cancer
- Brain cancer
- Breast cancer
- Kidney cancer
- Melanoma
- Non-Hodgkin's lymphoma
- Pancreatic cancer
- Stomach cancer
- Thyroid cancer
- Uterine cancer

**South Florida needs greater access to treatment & cancer-fighting technology.**

# Master Plan 2021-2031



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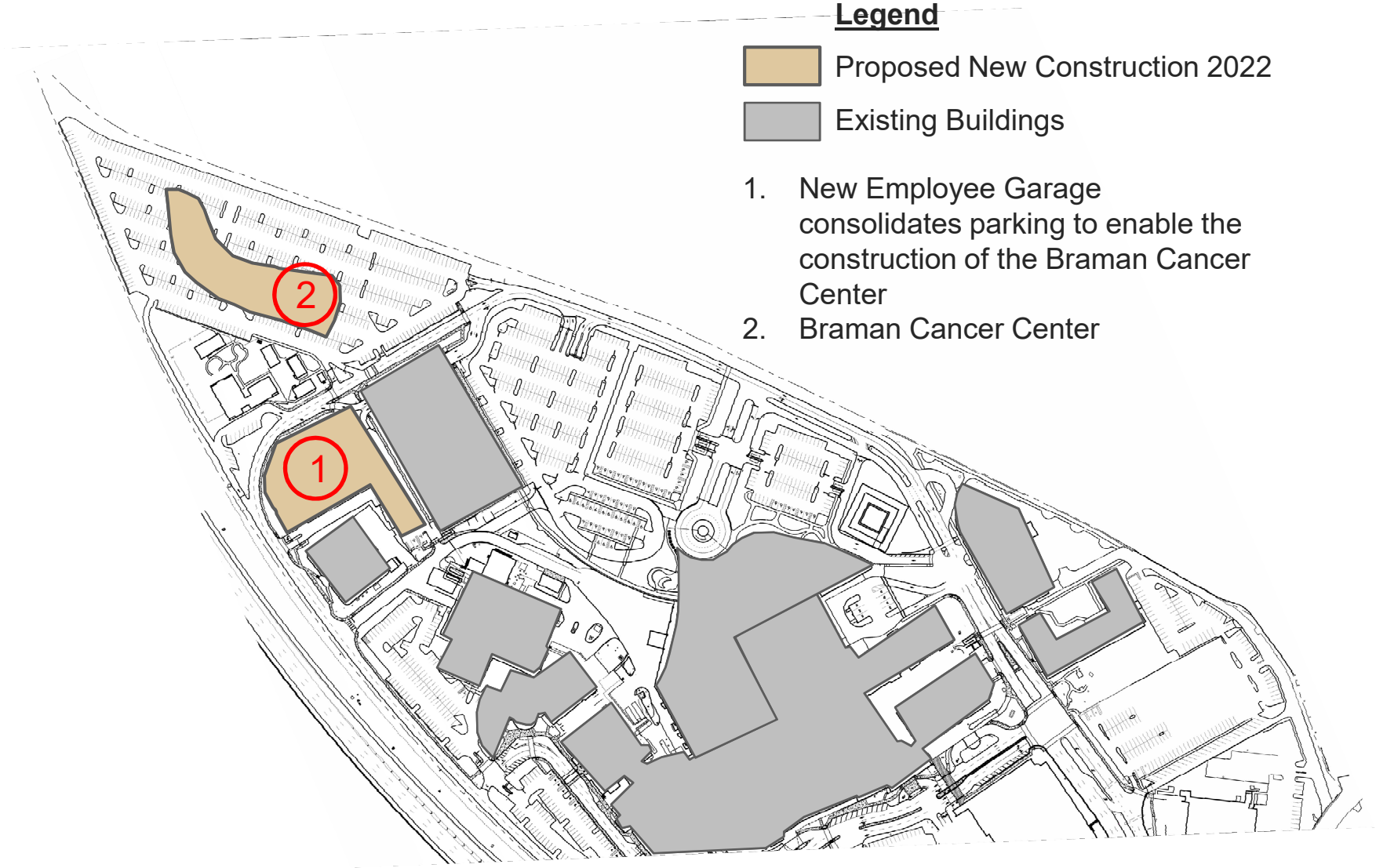
# Current Campus 2022




**Legend**

Proposed New Construction 2022

Existing Buildings

1. New Employee Garage consolidates parking to enable the construction of the Braman Cancer Center
2. Braman Cancer Center

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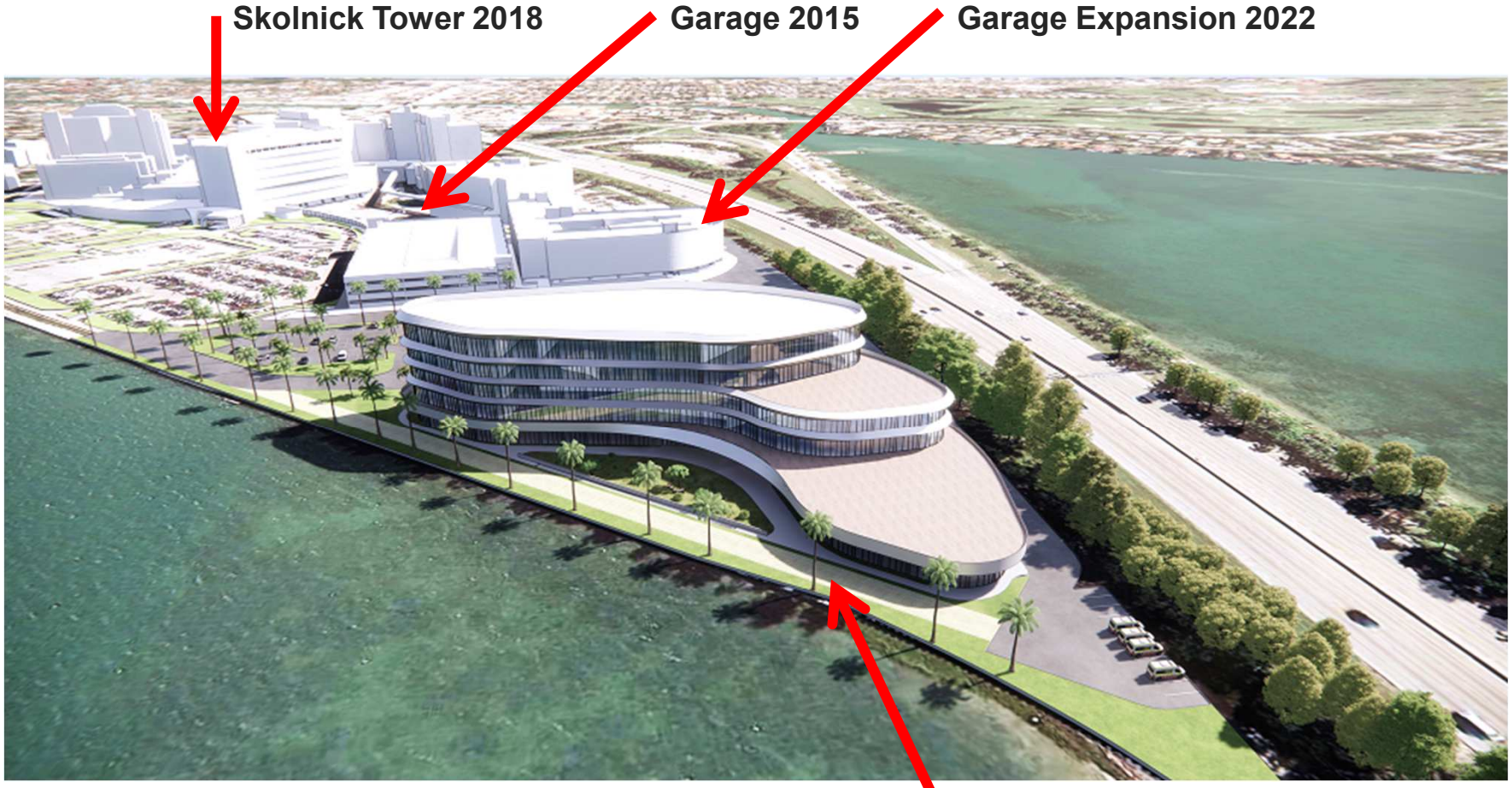
# Campus Rendering



# Garage Process

## BUILDING CONTOURS

On the Mount Sinai Medical Center campus, bold curves, sinuous forms, and sweeping contours are an established and recurring architectural theme for all recent buildings and future projects.

Skolnick Surgical Tower

Comprehensive Cancer Center


Skolnick Surgical Tower


Braman Cancer Center (forthcoming)

# Garage Process

## HORIZONTAL BANDS

A continuum of horizontal bands aligns the diverse campus architecture into a unified contextual whole.

Examples of lateral window strips, elongated shadows on the prominent Skolnick Surgery Tower, and linear architectural tectonics visually reinforce this horizontality, and resonate with the campus sited at the water's edge of Biscayne Bay.

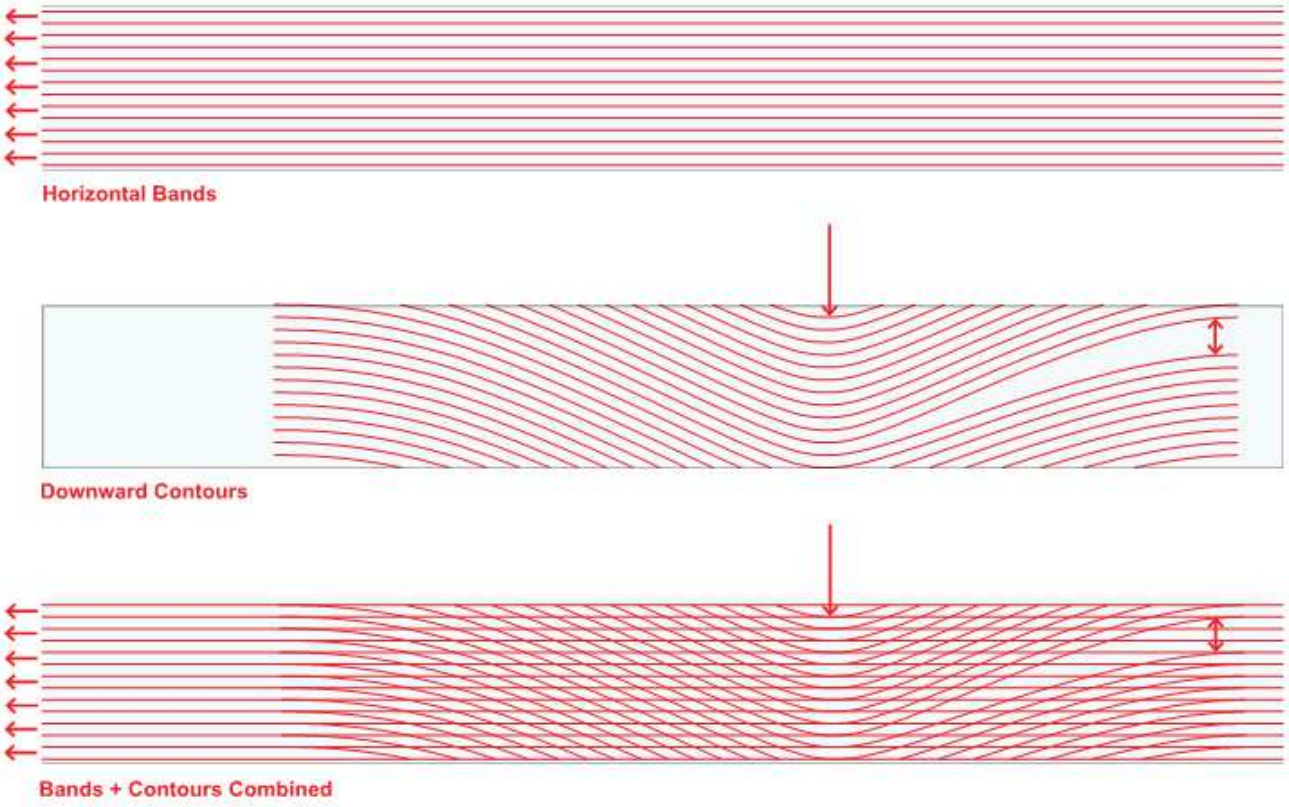

Mount Sinai Medical Center looking north

# Garage Process

## VECTOR STRATEGY

Taking cues from this context, the design of the facade for the Employee Parking Garage blends both broad horizontal lines and sweeping geometric contours.

When combined, the overlapping trajectories establish a visually captivating pattern: a new addition to the campus that learns from its architectural legacy.



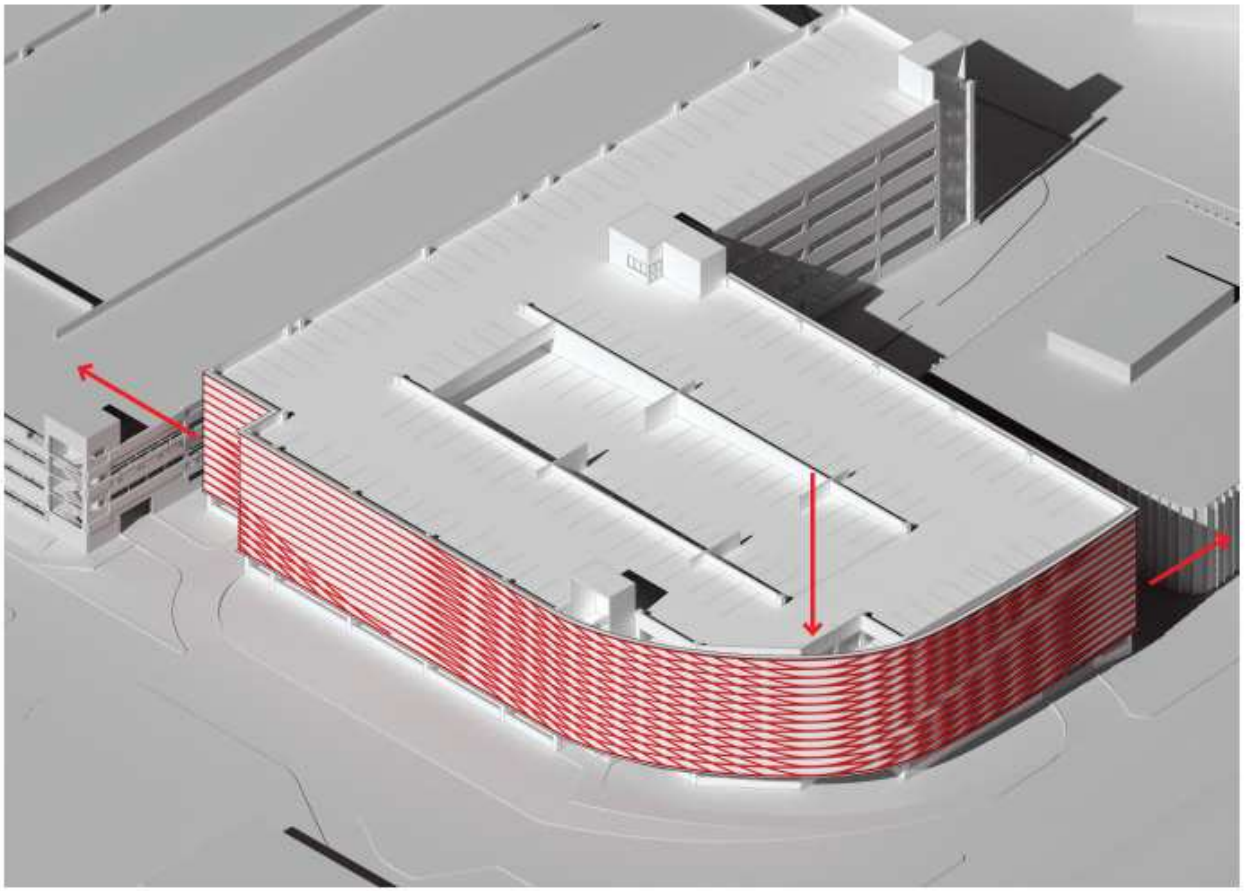
# Garage Process

## _Merging Lines

*Façade Pattern Generation:*

The maximum pattern effects are concentrated along the southwestern radius.

With increased subtlety and simplicity, the pattern dissipates outward along the west and south facades towards the rest of the campus.

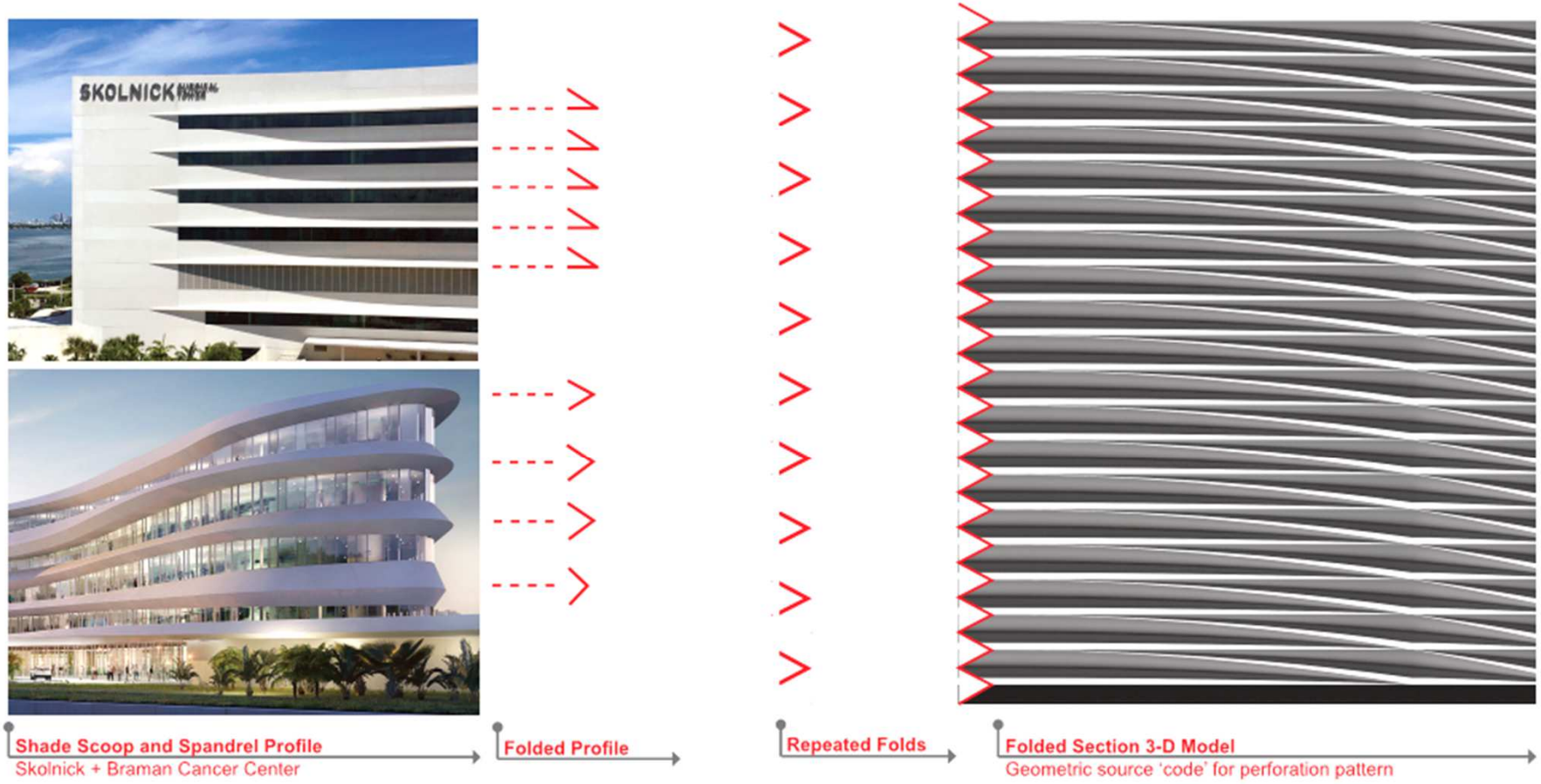


Bird's Eye View: Facade Pattern Compilation

# Garage Process

## _3D Pattern Basis

The curves and horizontals of the façade originate as a 3-dimensional relief. This establishes the 'DNA' of the pattern, and is informed by the tectonics of the future Braman Cancer Center and Skolnick Surgery Tower's shade scoops.



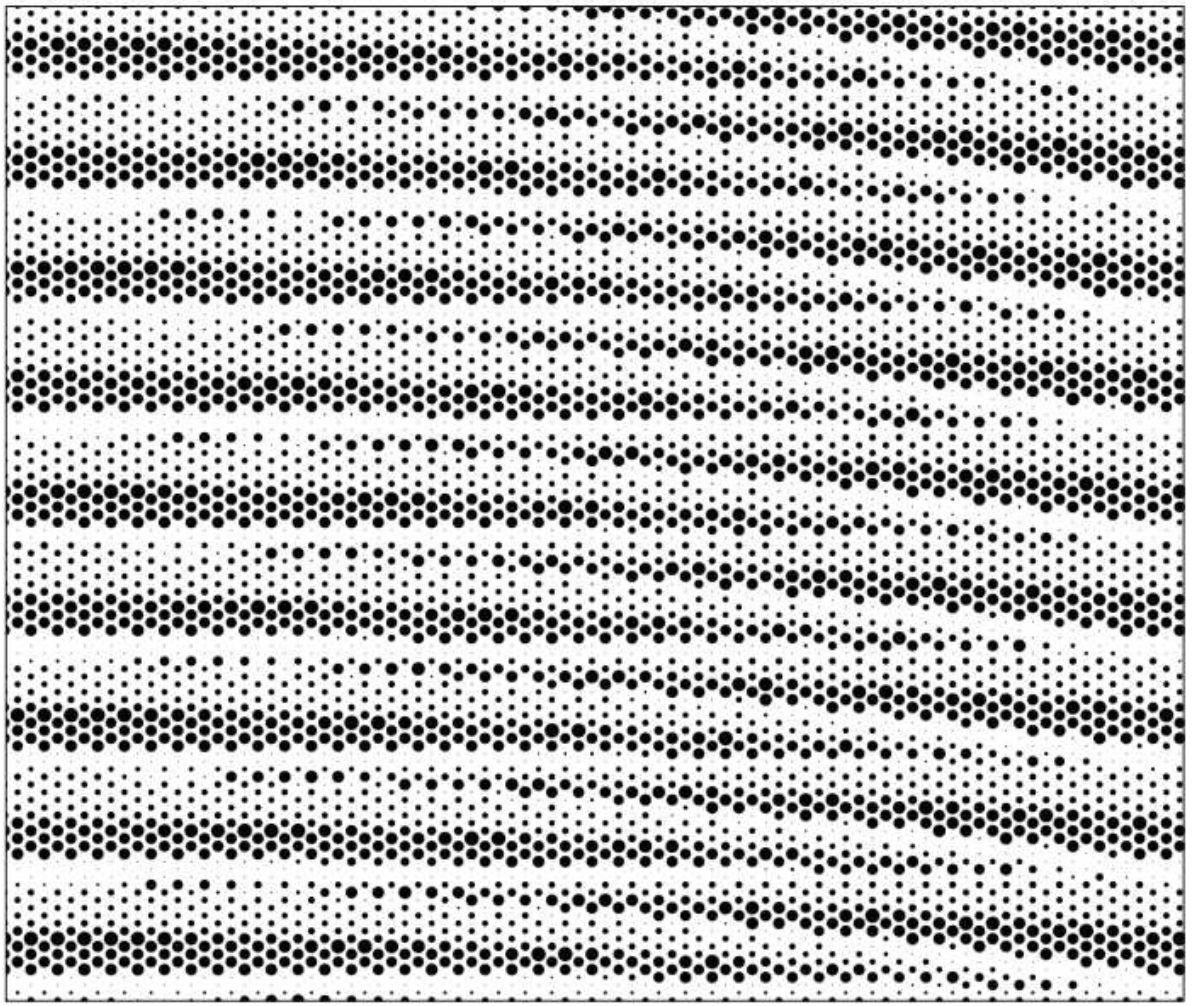
# Garage Process

## _2D Pattern Basis

*Façade Pattern Generation:*

Using computational design processes, the pattern is digitally translated into a 2-dimensional perforated surface.

Perforated openings are calculated to meet building codes for allowable natural ventilation and daylight into the interior spaces of the garage.



**2-D Translation:** 3-d geometry is translated into a flat perforated pattern

# Garage Process

## _Pattern Effect

The result is a materially efficient cladding system that is vertically smooth, yet when viewed from a distance, retains a textured 3-dimensional visual appearance.

**The façade straddles its dual role for being an important architectural addition to the campus, while also maintaining its status as a supplemental building.**

**By design, its aim is to support rather than visually dominate the more prominent cancer and medical buildings nearby.**

**Optical Surface Depth:** From a distance the perforated pattern retains 3-dimensional legibility

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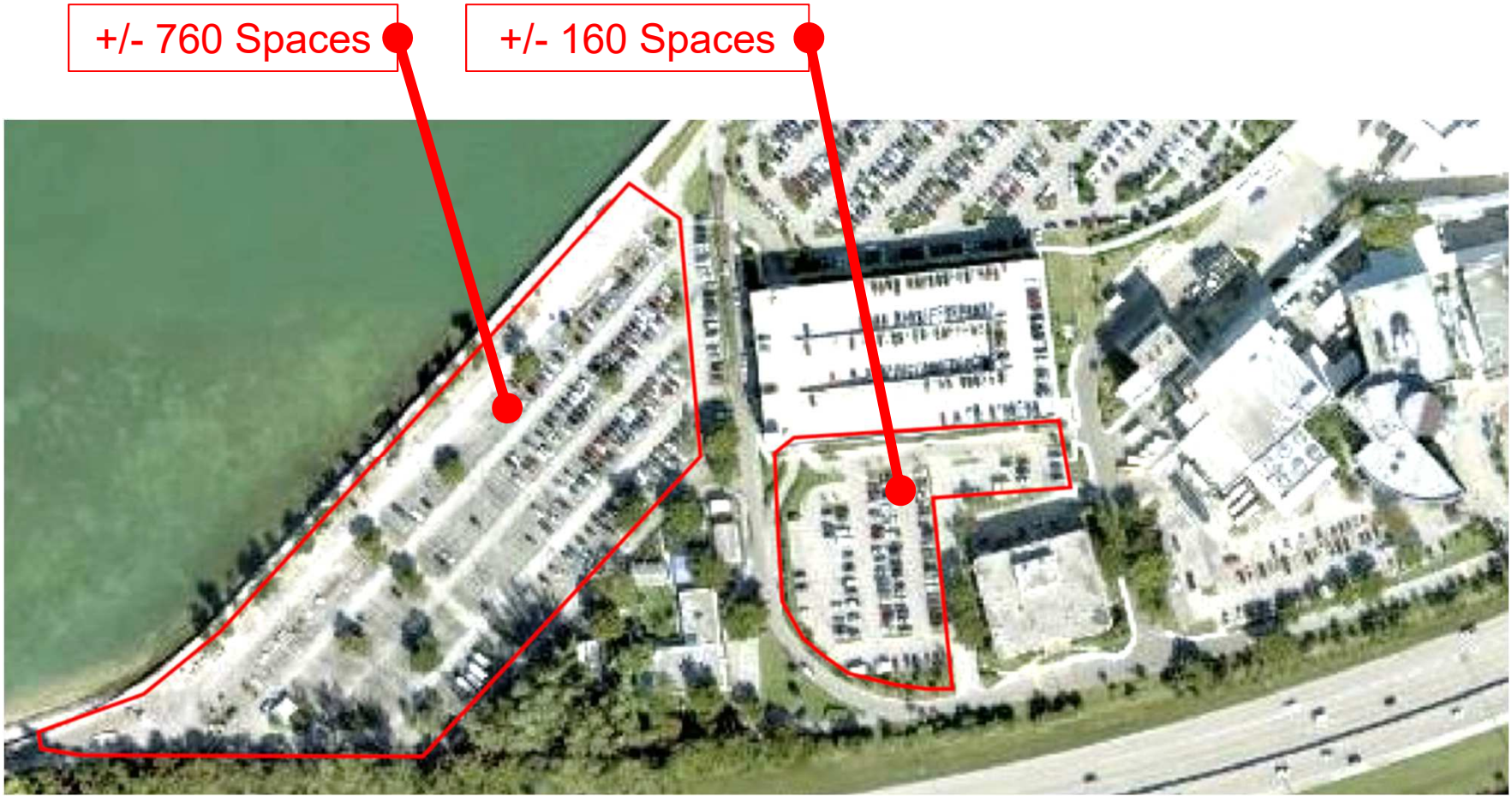
# Existing Condition




**Red outline denotes the existing surface parking that will be consolidated into the new parking garage.**

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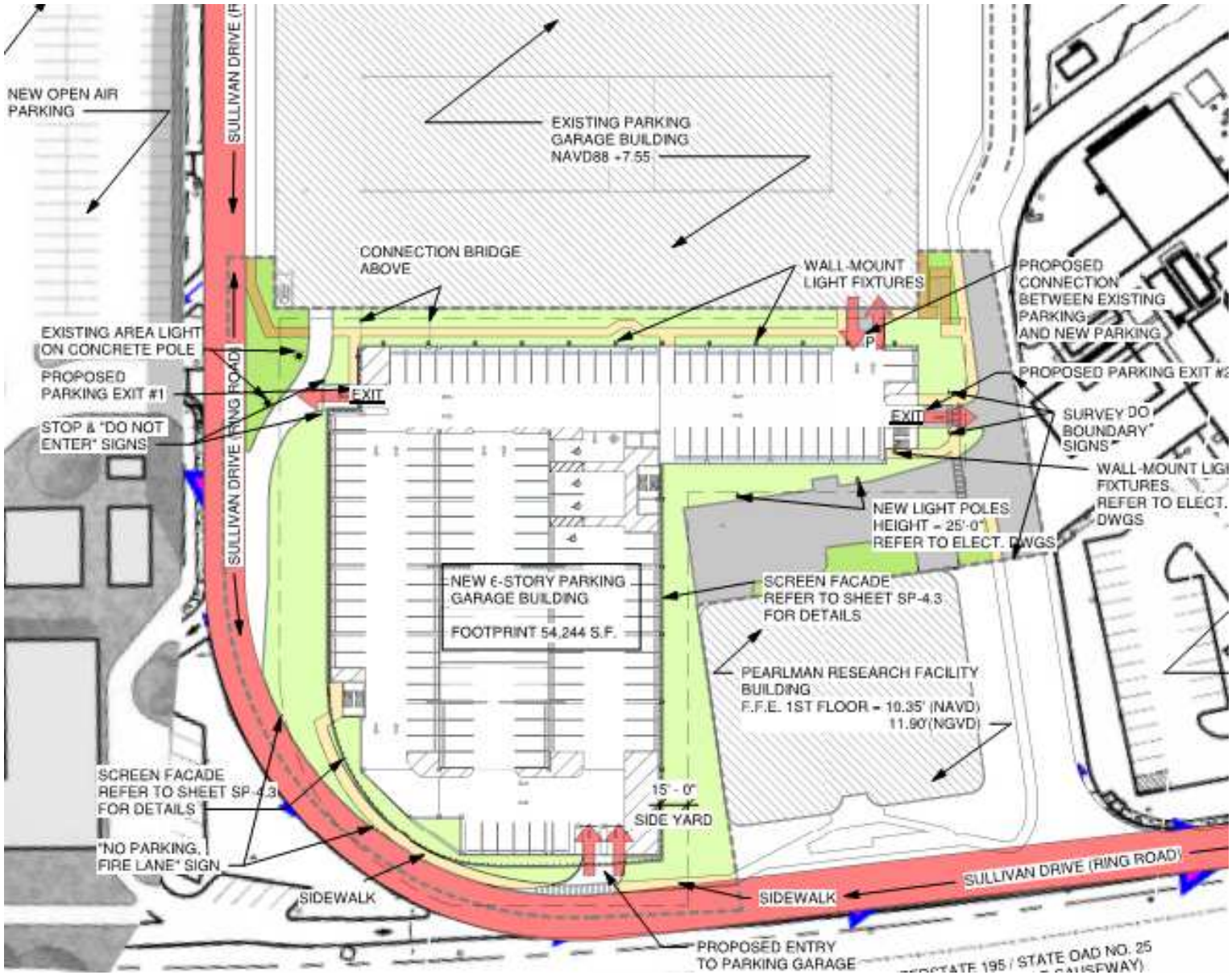
# Garage Plan



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# Exisitng Condition

**East-bound Julia Tuttle**

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# Cancer Center Rendering


**East-bound Julia Tuttle**

# Existing Condition


**West-bound Julia Tuttle**

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# Garage Rendering - East


**West-bound Julia Tuttle with view of perimeter fence and perimeter campus road**

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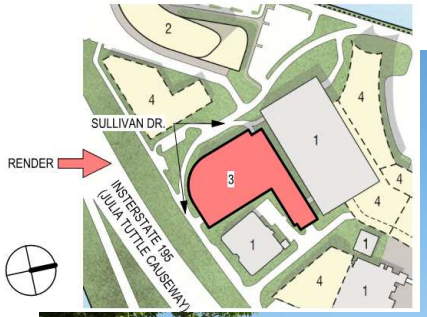
# Garage Rendering - SW







**From the causeway the facade is seen for only a few seconds at 60 mph. The bold curves and lines are scaled to be experienced at a passing glimpse.**

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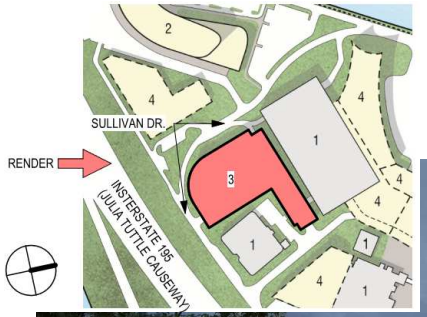
# Garage Rendering - SW

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# Garage Rendering - West

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# Campus Rendering