DRAFT

STREETSCAPES FOR WELLNESS ILLUSTRATIONS AND INTERACTIVE

In Progress Presentation 7.29.21

NYC PLANNING

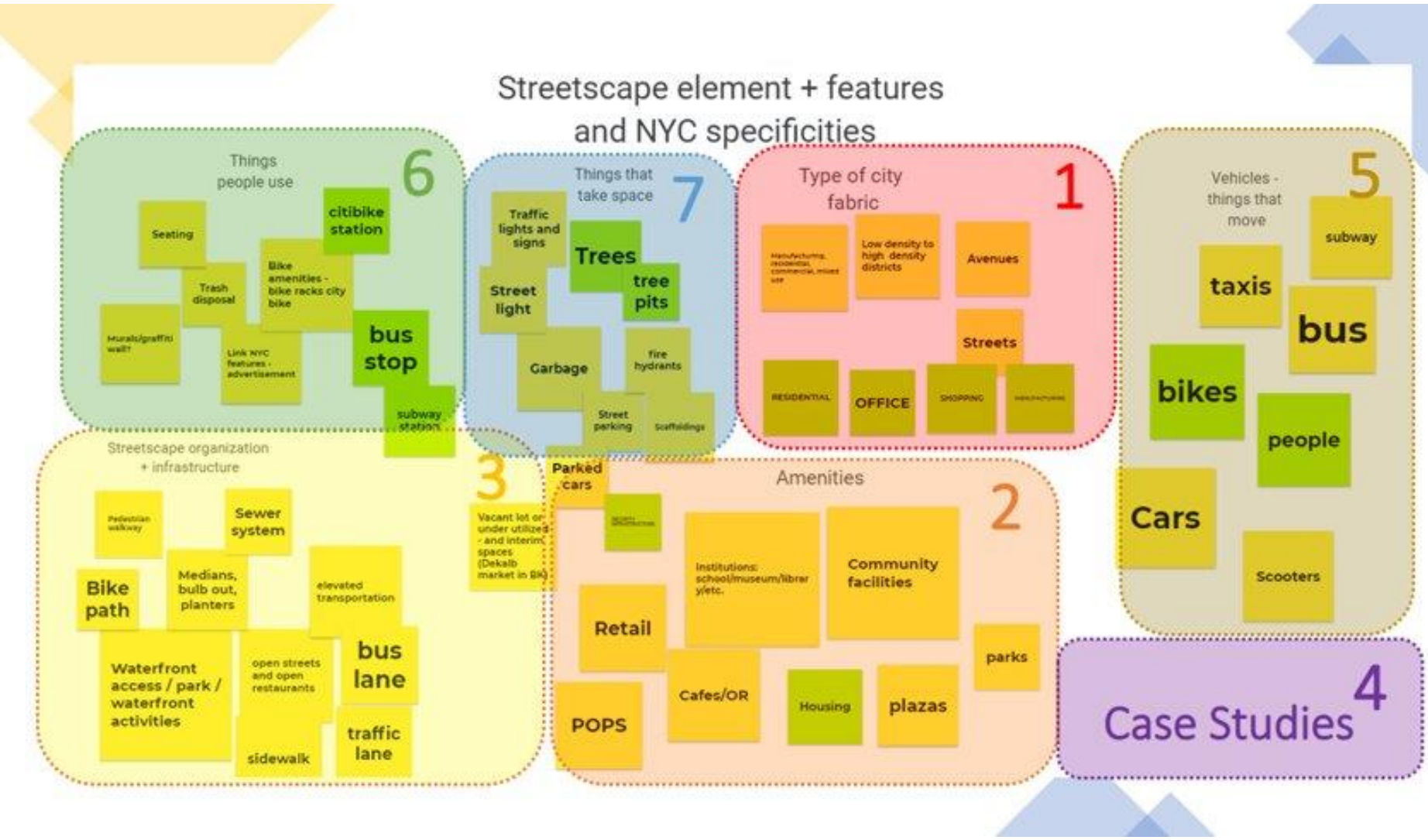
GOALS & DELIVERABLES

- **2d illustration(s)** demonstrating the types of NYC streets and the components and stakeholders that contributes to them
- **3d interactive piece** featuring a simulation that enable user to navigate through a constructed city model that explores the cityscape and the different view details

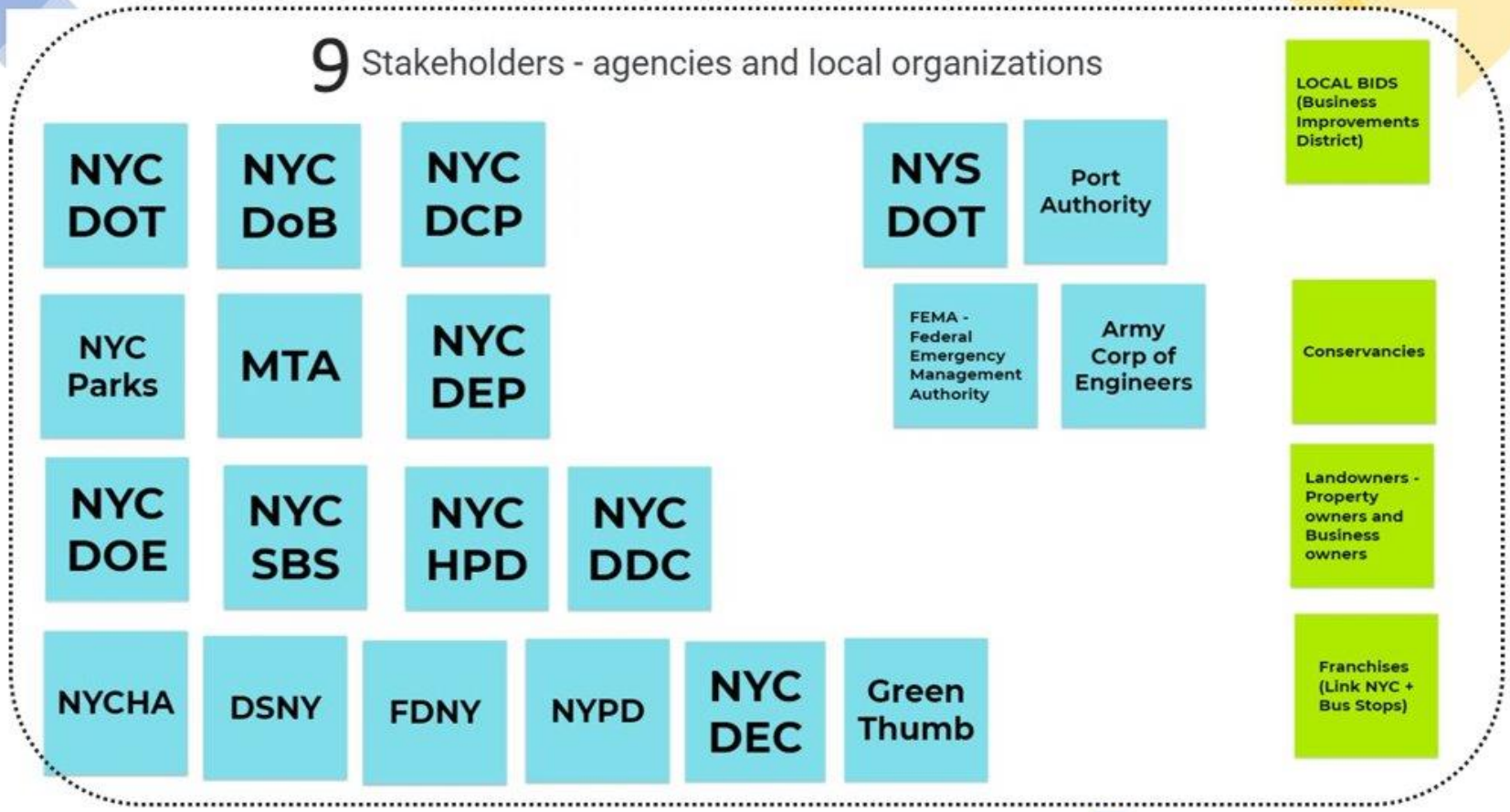
AGENDA

- Understanding components of streetscape
- Understanding PDC's case study types
- Understanding & constructing a cityscape
- Brainstorming views of highlight for illustration and interactive piece
- Current model views (reference for illustration) in progress
- Current interactive piece in progress
- Next Steps
- Feedback

Streetscapes for Wellness: Components of Streets



Streetscapes for Wellness: Stakeholders

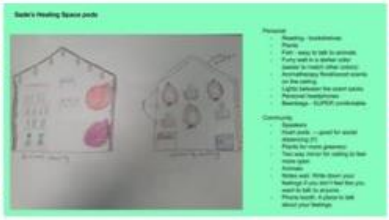


Streetscapes for Wellness: Case Studies

Open Street

Reclaimed Street

Collaborative Spaces



Underways

(Sunset Park, Brooklyn)

Pilot: Before

Pilot: After

Green Infrastructure

CityEI (Rendering Credit: Ciocchini Design)

Click to add text

Barcelona Polenou (Superblock)

Rethinking Roads

Streetscapes for Wellness: Understanding Case Studies

We continued our long-standing partnership with NYC Dept. of Transportation to provide programming at community street festivals in all five boroughs.

Collaboration with The Drawing Center to bring a special version of our pop-up art studio to public spaces in West Harlem.

Residencies in Chinatown.

Guidelines/Street Conditions to Consider/ Where CAN we Place Them

Enable communities to experience new public spaces and programs that seek to support small businesses and schools. Open Streets is tailored to shaping streets into public spaces for cyclists and pedestrians. The transformation is achieved through partnership with local community organizations.

Can be distinguished between:
-Temporary limited-access: vehicle access limited and must be slowed in this realm (only allow parking, deliveries, emergency, utility)
-Temporary full-closure: car-free zone for public activities (exception to emergency vehicles)

Visual Representation Strategy

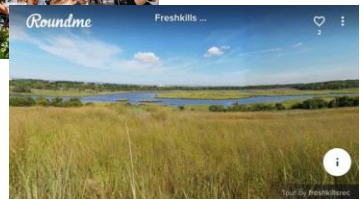
Closed streets from vehicular circulation; occupied by pedestrian programs such as outdoor dinning, recreational activities and entertainment.

Streetscapes for Wellness: Understanding Case Studies

Guidelines/Street Conditions to Consider/ Where CAN we Place Them	Visual Representation Strategy
Reclaiming Sites Beneath Elevated Transportation Infrastructure - apply enhanced lighting, green infrastructure, reflective paint, and seating in response to the various conditions that exist in El-Space (furnishings in the "El-kit" will enhance the streetscape experience).	Elevated transportation infrastructure, potentially also representing an element of the El-kit designs as furnishings.

Pedestrians cross Grand Concourse with new crosswalks and wider, protected medians with new trees and plantings

Guidelines/Street Conditions to Consider/ Where CAN we Place Them	Visual Representation Strategy
Provide a safer streets from traffic, more inviting, and accessible space for pedestrians as well as a separated and protected bicycle path to allow for safe cyclist travel. Public realm can be enhanced with trees, pedestrian lighting, benches, wayfinding, and other design elements reclaiming public space from private vehicles and making it available for public transport, bicycles and pedestrians.	Large/main street with bike lanes, wide customized medians with trees and activities, crosswalk.



Guidelines/Street Conditions to Consider/ Where CAN we Place Them	Visual Representation Strategy
Focused on redesigning entrances, edges, and park-adjacent spaces in parks and improving neighborhoods by extending the beauty of parks out into communities. -Make entrances easier to find, the edges of our parks greener, add furnishing, programming, and amenities, and improve sight lines to make our parks safer - New York City is finding park space in areas not conventionally thought of as parkland	Open park (not fenced), potentially with seating + other public amenities?

Streetscapes for Wellness: Understanding City Scape

SUSTAINABILITY + RESILIENCE: Consider local context regarding climate, plantings + trees, materials, air quality and storm water management.

SAFETY: Ensure sidewalks are designed with adequate lighting, gradients, and materials, to enable safe use 24 hours a day.

HUMAN SCALE + COMPLEXITY: Use architectural detailing, entries, transparency, landscaping and so on to increase the complexity at the lower floors, helping to complement the human scale and break down the rhythm of length of the sidewalk.

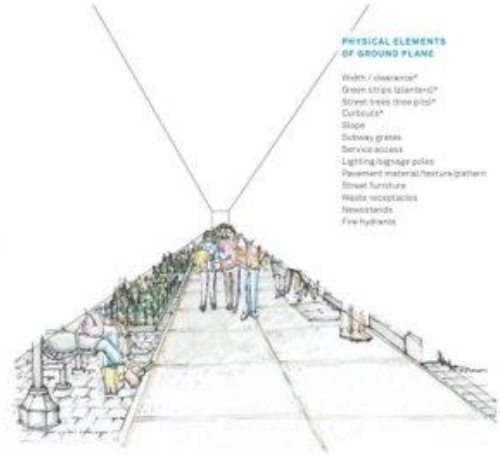
CONTINUOUS VARIETY: Ensure an experience of continuous variety. Consider the different speeds that people move at, and a variety of activites that can occur within the sidewalk room.

CONNECTIVITY: Ensure sidewalks provide clear wayfinding and are continuous, connecting people to destinations and not resulting in dead ends.

ACCESSIBILITY: Ensure accessibility for multiple users, considering different ages and abilities.

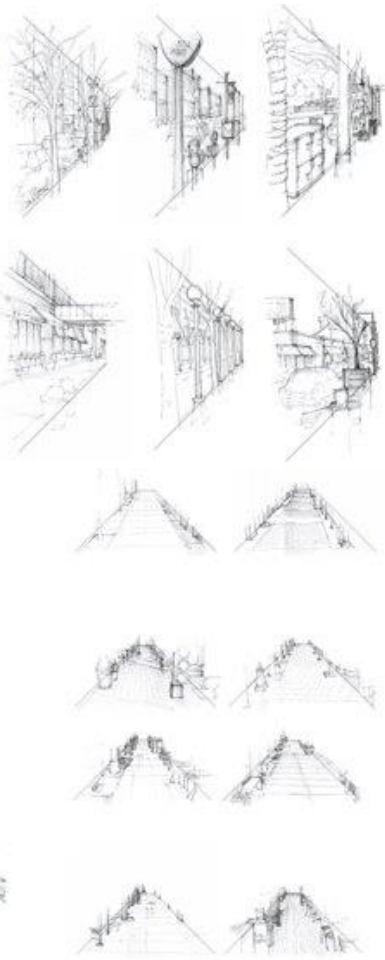
PHYSICAL ELEMENTS OF THE ROADSIDE PLANE

Green strips/ planters/ tree pits*
Street trees*
Lighting/signage poles
Street vendors
Parked cars
Bike lanes
Bike racks
Street furniture
Waste Receptacles
Newsstands
Fire hydrants

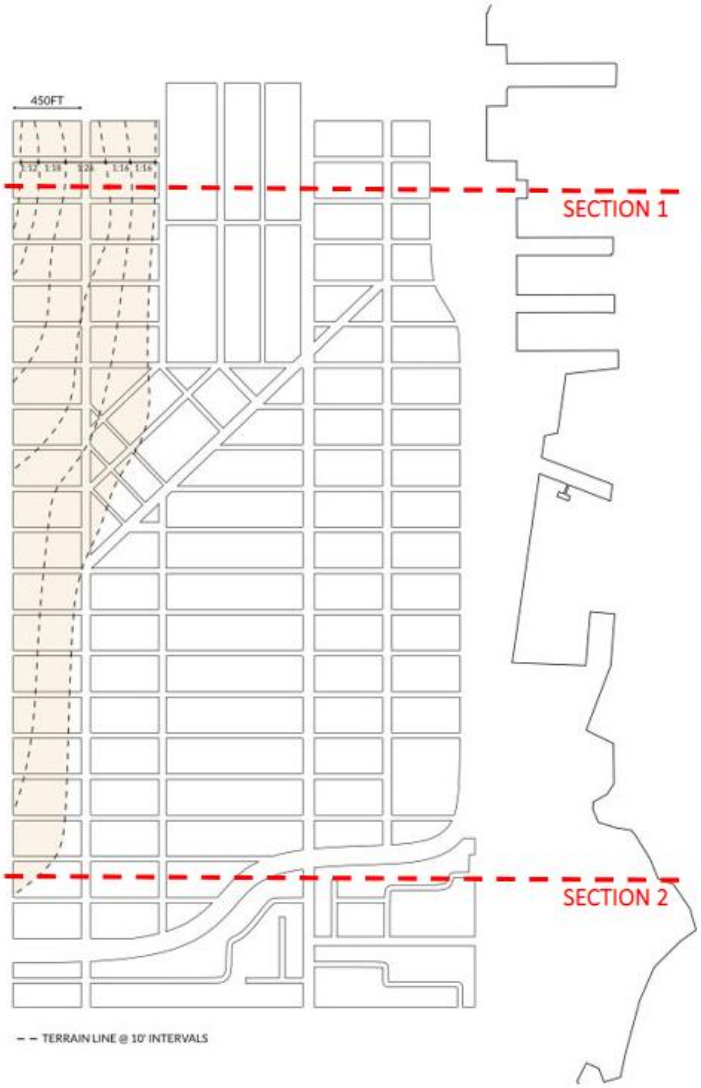


PHYSICAL ELEMENTS OF GROUND PLANE

Width / clearance*
Green strips (planters)*
Street trees (tree pits)*
Curbcuts*
Slope
Subway grates
Service access
Lighting/signage poles
Pavement material/texture/pattern
Street furniture
Waste receptacles
Newsstands
Fire hydrants

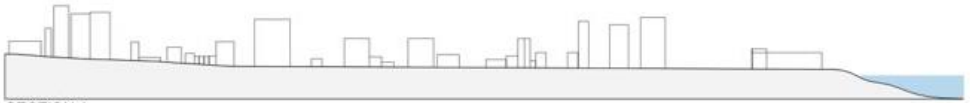


Streetscapes for Wellness: Construction Composition_Terrain



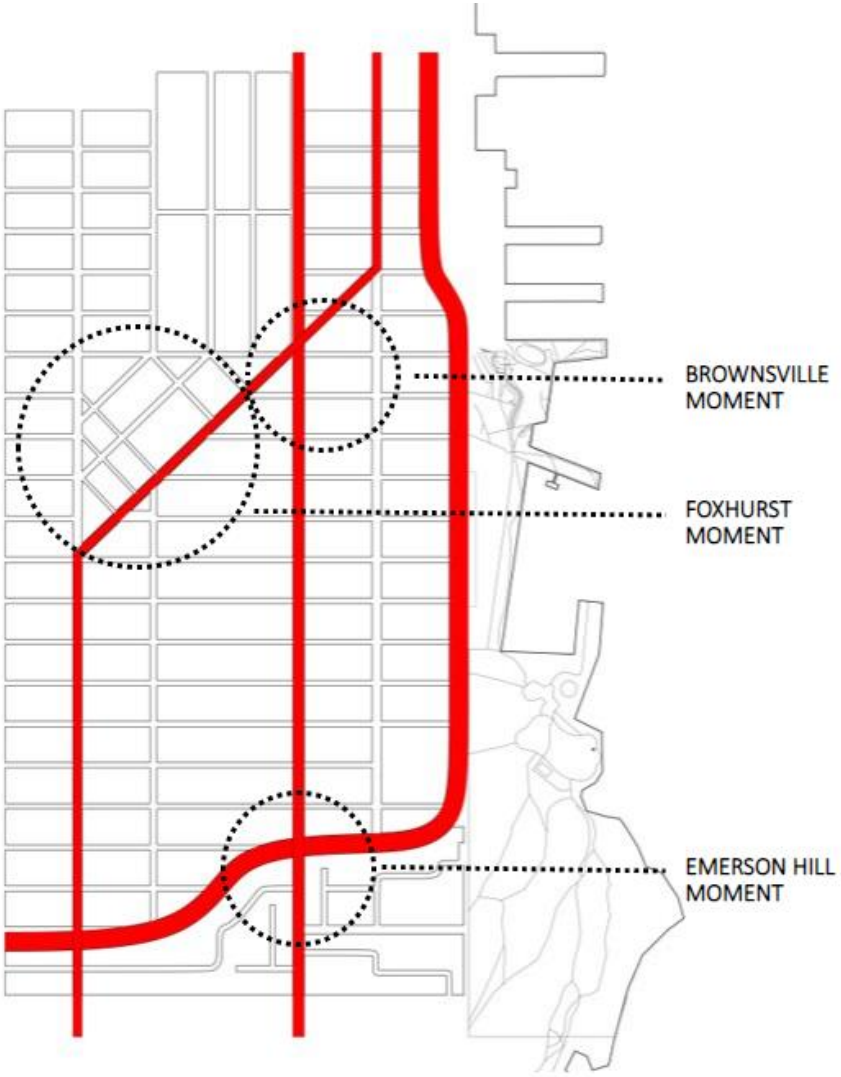
HARLEM, MANHATTAN

SUNNYSIDE, QUEENS

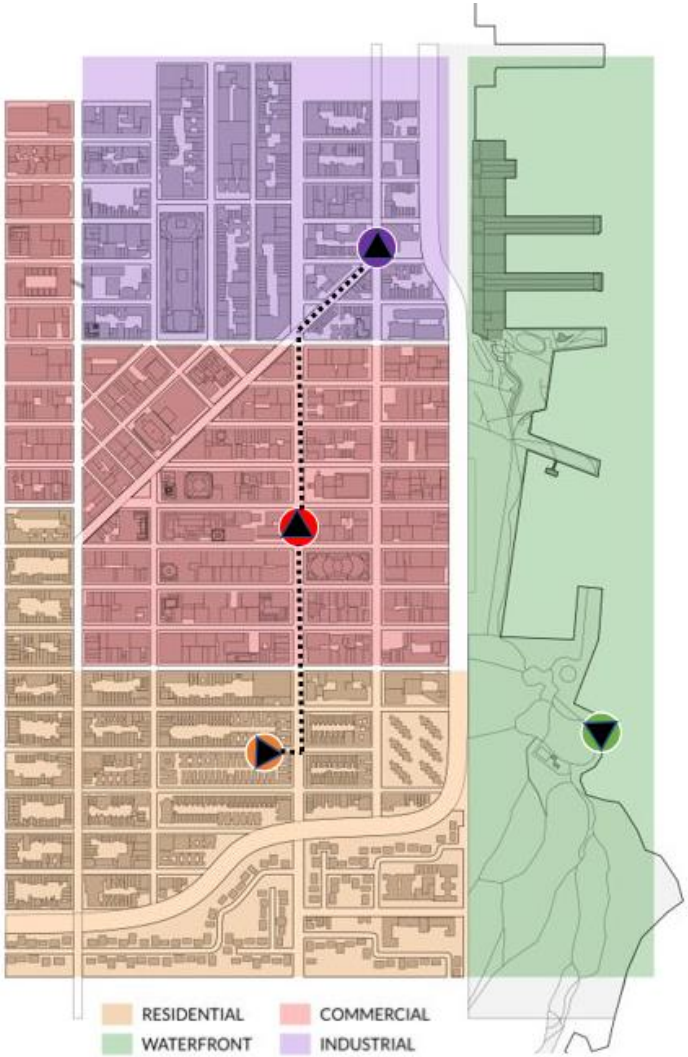

SECTION 1


SECTION 2

Streetscapes for Wellness: Construction Composition_City Grid



Streetscapes for Wellness: Construction Composition_Stitching



EMERSON HILL, STATEN ISLAND

HARLEM, MANHATTAN

LOWER EAST SIDE, MANHATTAN

BROADWAY, BROOKLYN

MEATPACKING DISTRICT, MANHATTAN

FLUSHING CREEK, QUEEN

FLATIRON DISTRICT, MANHATTAN

BARRETTO POINT PARK, BRONX

JAMAICA BAY, QUEENS

Streetscapes for Wellness: Parts of the City

Scene	Reference	Agency	Visuals	Notes of Essentials
Waterfront	Jamaica Bay, Freshkills	DEP, Parks, FEMA	River with open fields, little development, scattered aggrogates	Space for bikers, pedestrian, nature and animals Seatings amenities Remediation efforts with land/water/nature
Industrial	Old Williamsburg, Old Meat Packing District, Flushing Creek	NYC EDC, MTA, DoT, Port Authority (?)	Ferry, highway, underway, manufacture	Clear underway, old industrial building, under way case study and how to make it safer, waterfront + old buildings + adapted reuse, typical manufacture vs upsiding, traffics, curb cuts for truck loading, loft apartment for adaptive reuse, underway is typically parking so it have opportunities to be activated
Residential	NYCHA from LES, Row houses from Harlem	NYCHA, HPD, DDC	NYCHA, low-rise row houses, block party, institutions (ex: schools)	Street lamp, NYCHA building, town house, typical one family, fire hydrant - cool streets, deli, intersection of streets
Commercial/High Density Residential	14th Street	SBS, local BIDS, MTA, DoB, Property Owner, Contracted Franchises	Mid-high rise, public transit	Traffic signs, street cart, kiosk + digital tracker, subway station/bus stop, median for rethinking roads, skyscraper background, saffolding, public plaza/privately owned public space,

Commercial/High Urban Density

Key Takeaways

Case study: rethinking roads – street median
Components: traffic sign, street cart, kiosk + digital tracker, subway/bus stop, scaffolding, public plaza/privately owned public space
Consideration: formatting storefronts to be visually appealing to pedestrian

Residential

Key Takeaways

Case study: open streets (ex: block party), cool streets (ex: operating fire hydrant)
Components: NYCHA, rowhouses, one-family house, bodega, fire hydrant, street lamps
Consideration: formatting view for street intersection of mix use

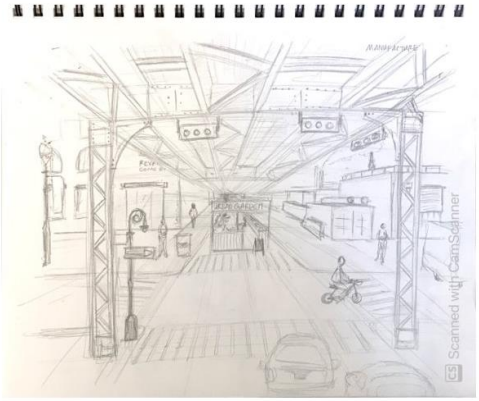
Streetscapes for Wellness: Parts of the City

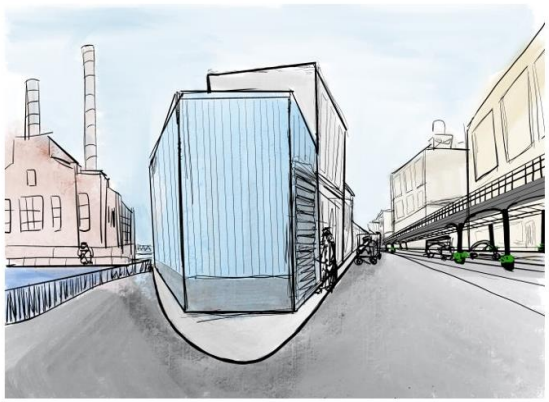
Waterfront

Key Takeaways

Case study: parks/plazas
Components: Space for bikers/pedestrian/nature/animals, seatings amenities, remediation efforts with land/water/nature
Consideration: natural vs artificial

Industrial

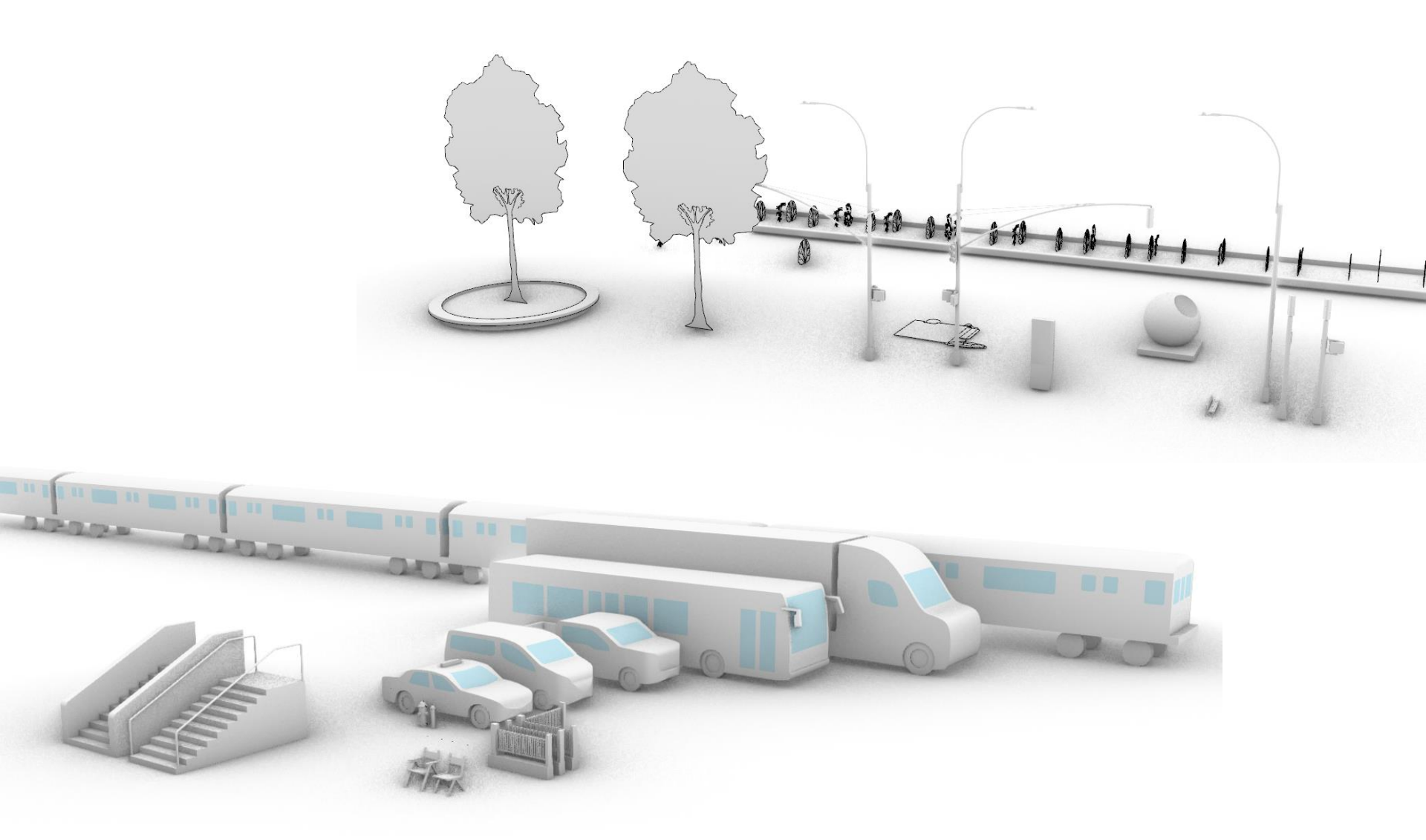




Key Takeaways

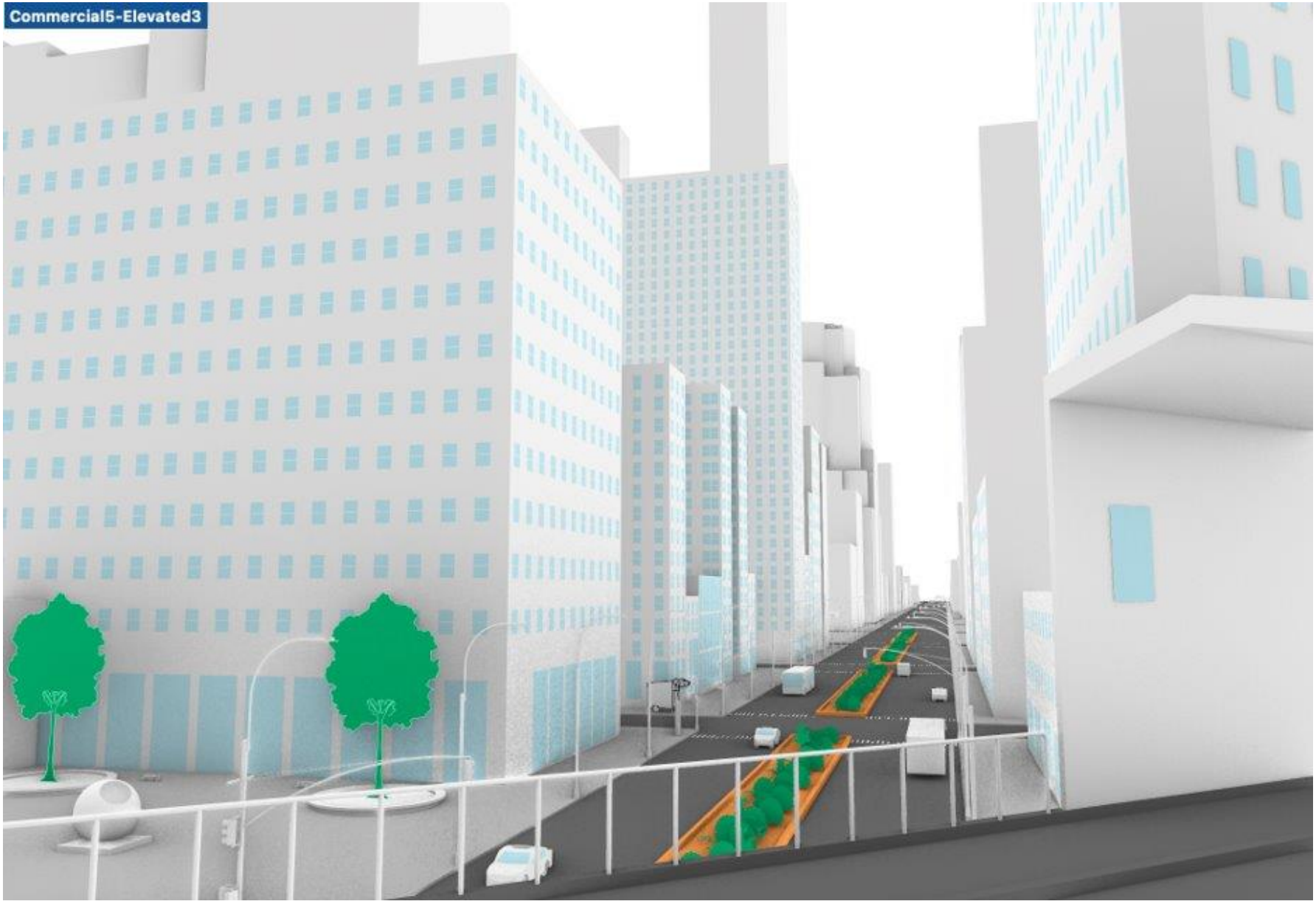
Case study: underway: existing parking to underway programs – how to make it safer
Components: waterfront + old buildings + adaptive reuse (loft apt, gallery, storefront)
Consideration: curb, traffic, truck off-loading

Streetscapes for Wellness: Crafting Components of City



Streetscapes for Wellness: Crafting Views - Residential

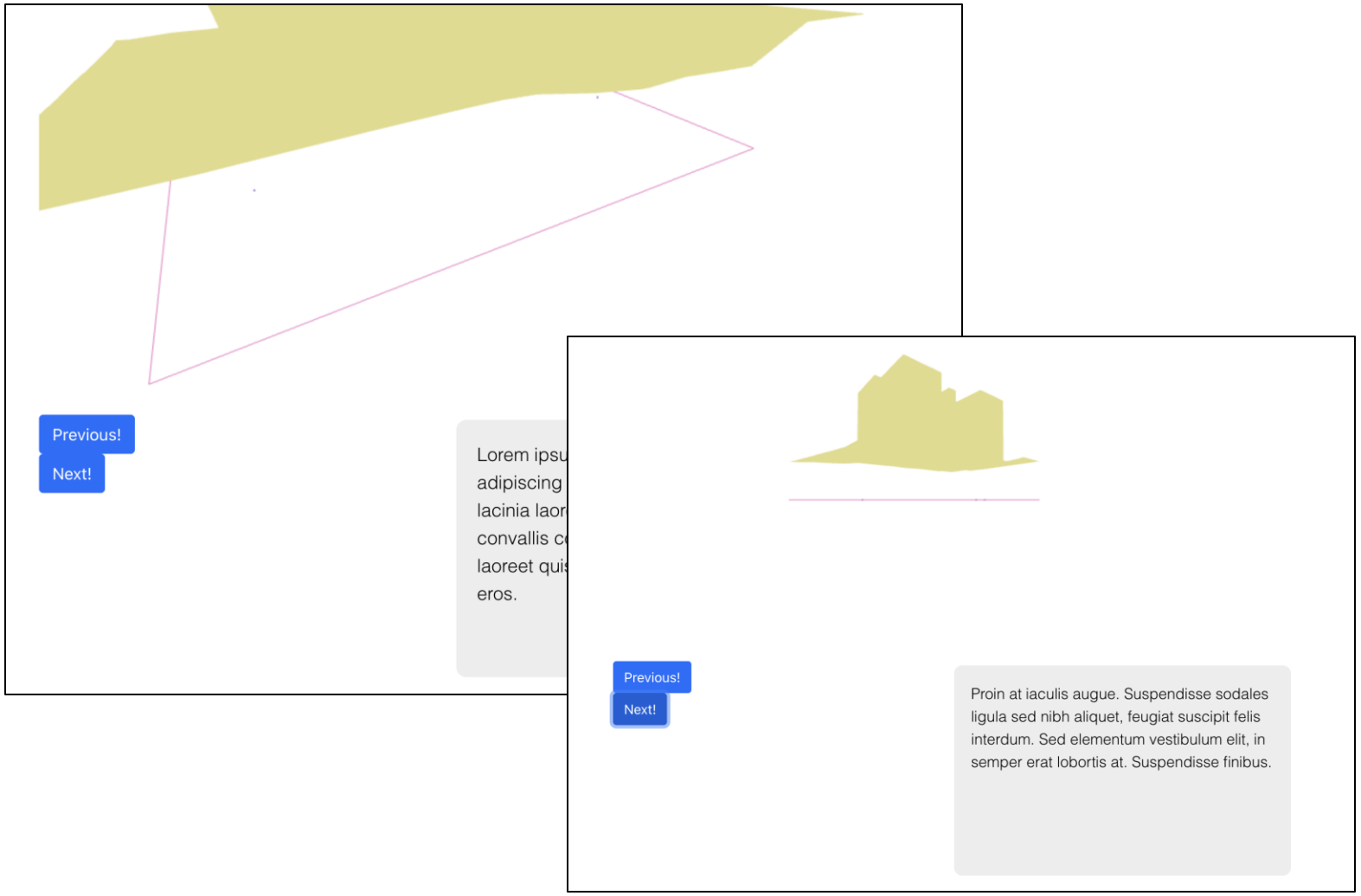
Streetscapes for Wellness: Crafting Views - Commercial



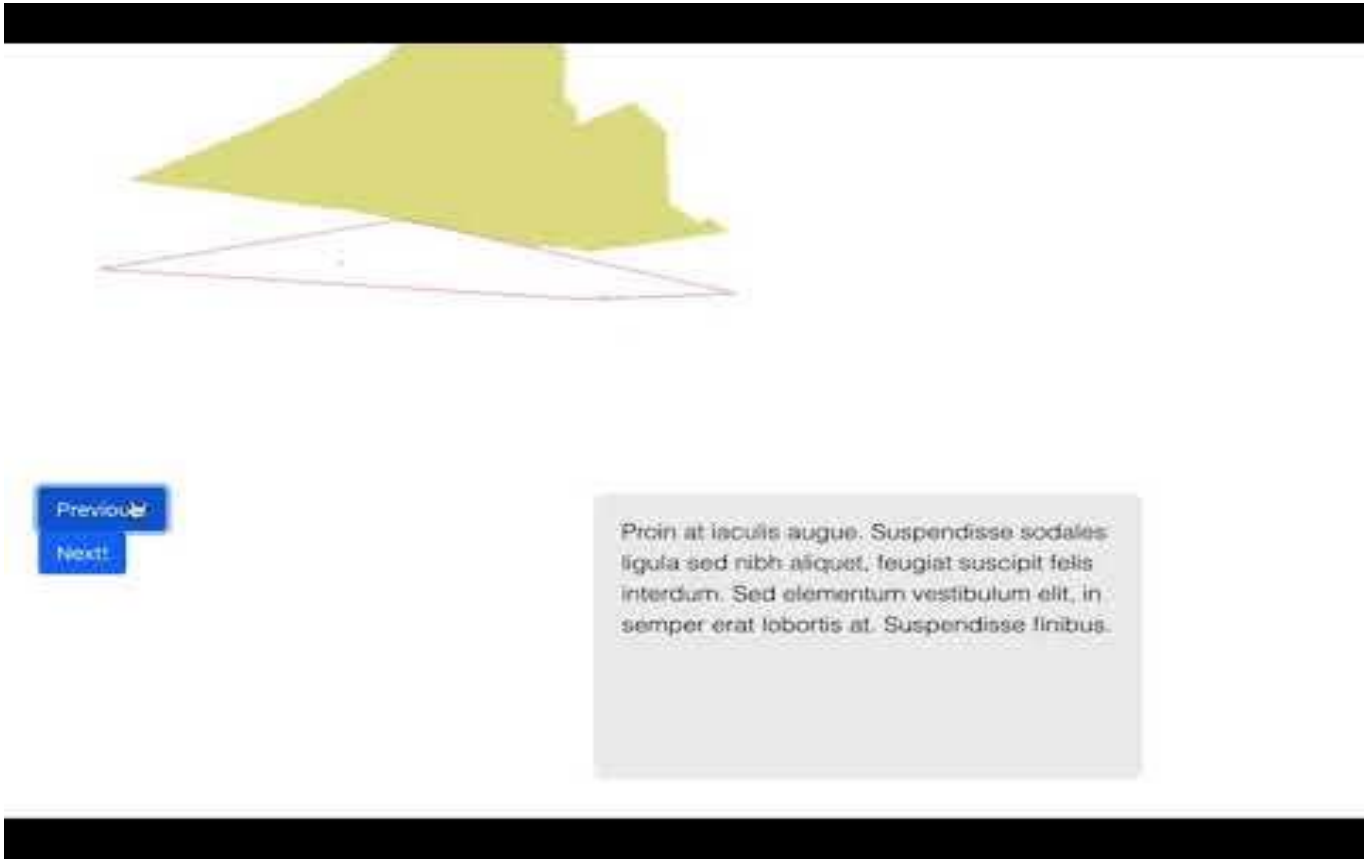
Streetscapes for Wellness: Crafting Views - Industrial

Streetscapes for Wellness: Crafting Views - Waterfront

Streetscape for Wellness: Front-End Development



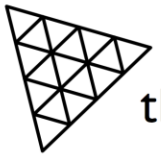
Streetscapes for Wellness: Interactive In-Progress



Streetscape for Wellness: Front-End Development

```
if ((!inReverse && posNumber > 0) || (inReverse && posNumber < camPositions.length - 1)) {
  // console.log('animationTime! ' + animationTime);
  if (!inReverse && posNumber > 0) {
    // going forward
    oldPositions = camPositions[posNumber - 1];
    newPositions = camPositions[posNumber];
  } else if (posNumber < camPositions.length - 1) {
    oldPositions = camPositions[posNumber + 1];
    newPositions = camPositions[posNumber];
  } else {
    oldPositions = { x: 0, y: 0, z: 0 };
    newPositions = { x: 1, y: 1, z: 1 };
  }
  if (currentAnimProgress > 1) {
    currentAnimProgress = 1;
  }
  const x = THREE.MathUtils.lerp(oldPositions.x, newPositions.x, currentAnimProgress);
  const y = THREE.MathUtils.lerp(oldPositions.y, newPositions.y, currentAnimProgress);
  const z = THREE.MathUtils.lerp(oldPositions.z, newPositions.z, currentAnimProgress);
```

React



three.js

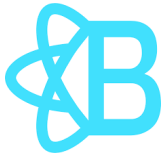
Redux

ESLint

Bootstrap

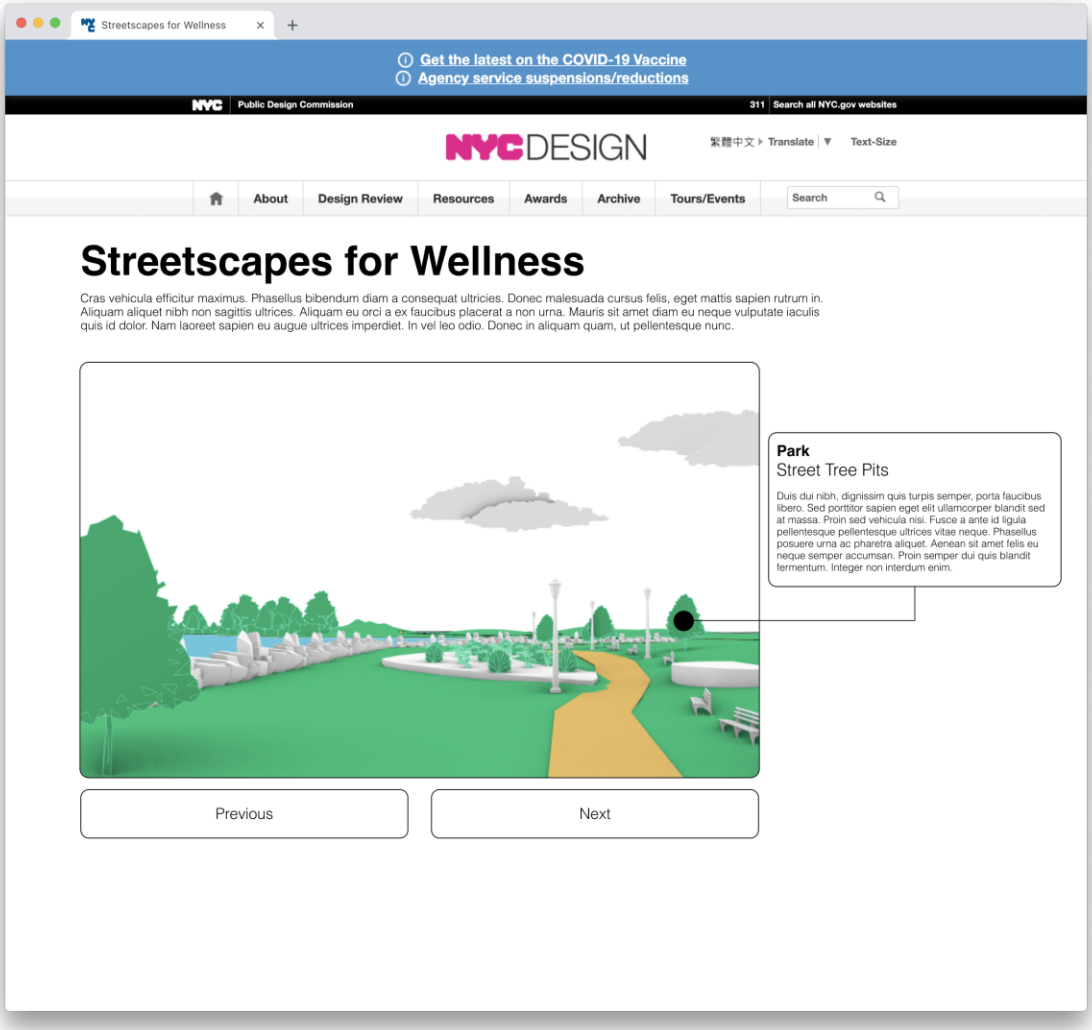
React Three Fiber

drei

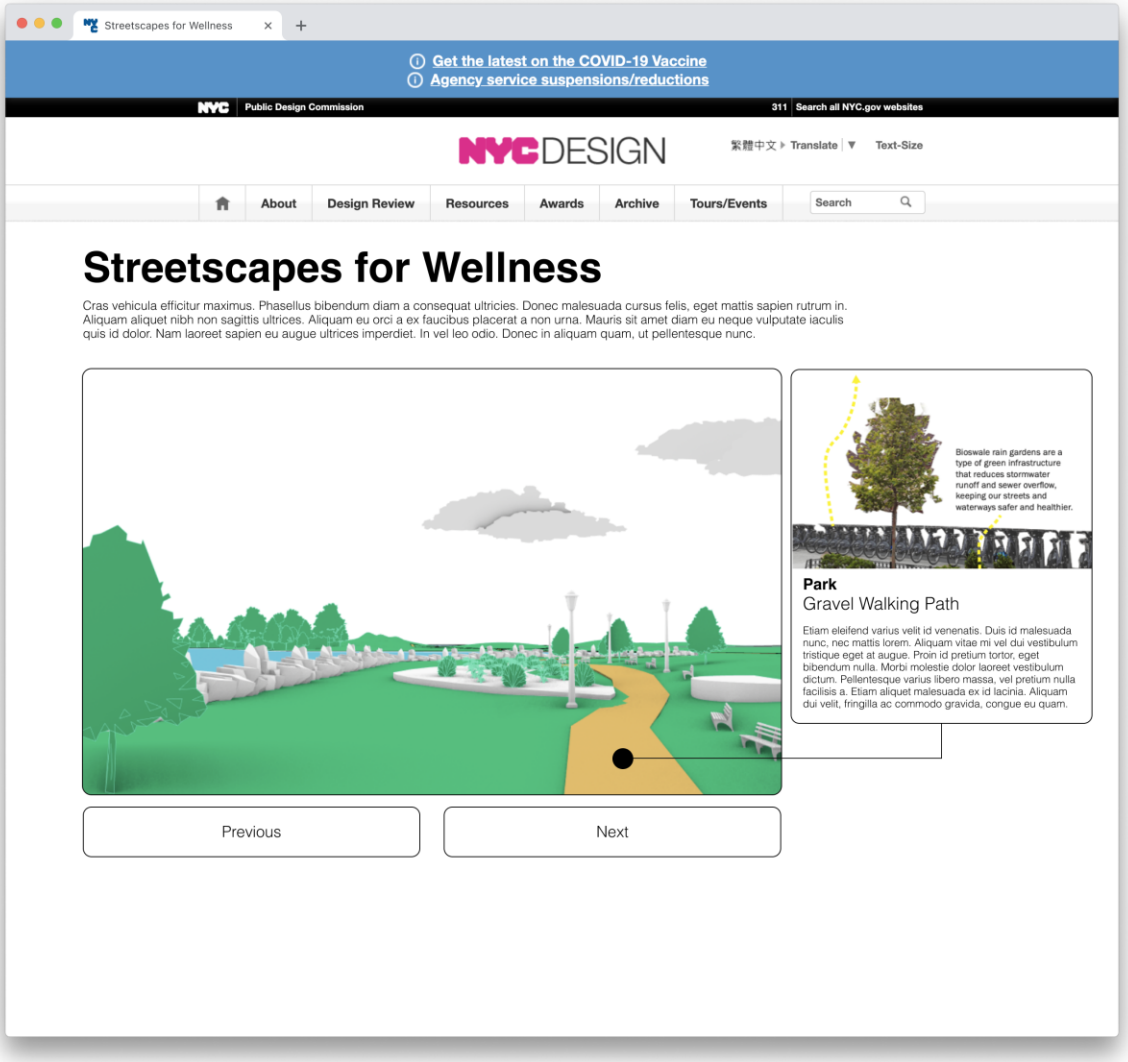


Prettier

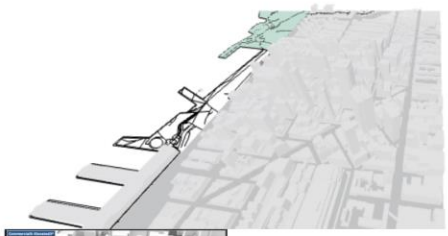
Streetscapes for Wellness: Interactive In-Progress



Streetscapes for Wellness: Interactive In-Progress



Streetscapes for Wellness: Interactive In-Progress



MODE

flipped and negative LookAt

CURRENTLY DISPLAYED:

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FROM RHINO:

{"viewName":"residential view","lensLength":44.73,"x":440.49,"y":597(

Previous!

Next!

MODE

flipped and negative LookAt

CURRENTLY DISPLAYED:

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FROM RHINO:

{"viewName":"park","lensLength":30,"x":2892.82,"y":691.15,"z":8.68,"lookAt":{"x":2893.02,"y":631.28,"z":7.58}}

Previous!

Next!

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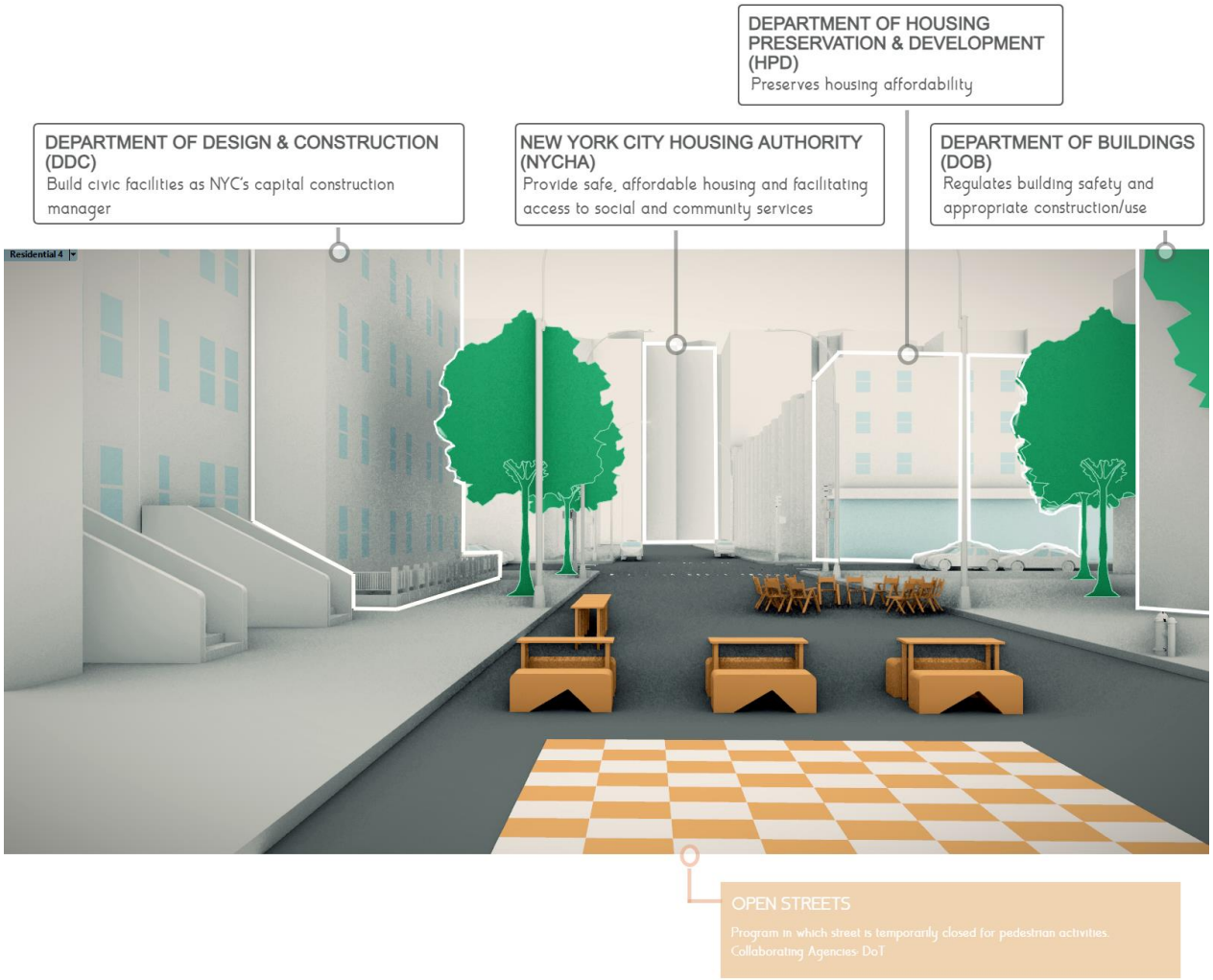
Next Steps



- Update model views from feedback
- Turning views into illustrations and annotating
- Turning views and city model into interactive piece