

# NEW YORK INSTITUTE OF TECHNOLOGY

School of Architecture  
& Design

B.Arc

ARCH 402 Urban Design

S23

|                      |  |
|----------------------|--|
| Course # + section:  | ARCH 402   |
| Course ID:           | ARCH 402 Urban Design VI   |
| Prerequisites:       | ARCH 401   |
| Corequisites:        | None   |
| Contact Hours:       | 2-5-5 Classroom Hours – Laboratory and/or Studio                         |
| Hours Credits:       | 5  |
| Type of Course:      | Studio   |
| Class Meetings:      | Tuesday and Friday, 9:00 AM – 12:40 PM                                   |
| Location:            |  |
| Enrollment Capacity: | 16   |
| Instructor:          | Elijah Williams  |
| Telephone:           | x  |
| E-mail:              | <a href="mailto:eliwilliams1337@gmail.com">eliwilliams1337@gmail.com</a> |
| Office Hours:        | email  |
| Faculty Office:      |  |
| Coordinators:        | Adjunct Associate Professor Diane Neff; Professor Tom Verebes, PhD;      |

## One of Top of the Other

### Jamaica Station Jamaica, Queens, New York City

This project proposes a renovation and expansion of the existing Jamaica Station Transit center in the neighborhood of Jamaica in Queens, New York. Taking urbanism as a set of fabrics, interconnected by transit systems (public or otherwise) by considering this particular geographic location as the first interaction with the public infrastructure of not only New York, but the United States. Significant updates to the LIRR and AirTram facilities leave the pedestrian experience and connection to the community of Queens itself in need of study. By focusing on the goals and objectives of the initial expansion of Jamaica Station, to bring business and attention to this relatively remote section of Queens, while alleviating congestion on the LIRR tracks and creating alternatives to airport pick ups, this project aims to also integrate the subway into this modern transit hub. Already visible community centers are expanded by the creation of a new home for the Queens Night Market and home for the growing Jamaica Market, centering affordable and local food options for the wider community.

## **OBJECTIVES & AGENDAS:**

Course Description (*Course Catalog Description on NYIT website*):

This studio entails the design of a project at an urban or suburban scale. Students explore and assess issues of existing development, infrastructure, topography, environmental and community resources and needs. The interactions between architecture and planning are explored through study of infrastructure, program, type and landscape.

### **DESIGN VI: RESILIENT CITIES IN THE 21st CENTURY <generic Language to be modified/ culled/ ignored>**

The fourth-year spring semester design studio, Design VI, emphasizes the comprehensive and integrative nature of architectural design across several scales from details up to urban design. Following on from the Comprehensive Studio, ARCH 401, Design V, these two studios prepare students for their thesis in the following year, building on skills acquired in the previous three years of study. Students are challenged to synthesize knowledge they have acquired in other courses focusing on building construction, environmental technology, city planning and urban design, and history and theory courses, through design decisions, analysis, and critical thinking. Considerations of material and technology are embraced as opportunities to reinforce design ideas at multiple scales.

It is not possible to consider urban design without introducing a range of complex issues that are deeply integrated and defined in terms of scale, structure, image and meaning. In current design proposals, cities are understood today as heterogeneous organizational structures, behaving dynamically in real-time, and over longer durations of urban transformation.

Students will critically analyze the socio-economic, infrastructural, and ecological issues that affect urban design decisions at neighborhood and regional levels for a 21st century resilient city.

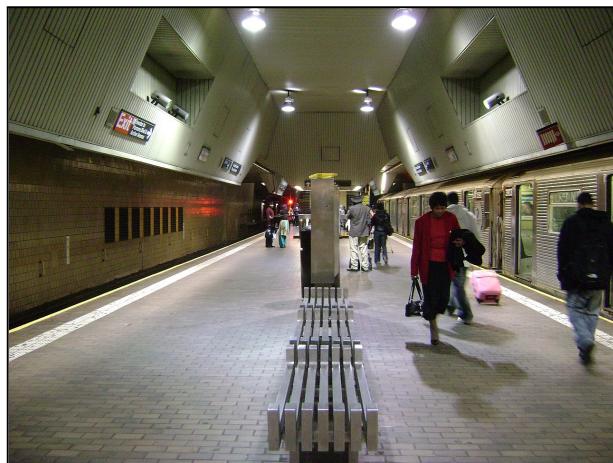
Design proposals for future urban environments need to identify renewable strategies specific to its context. Our built environment as a whole needs to be capable of managing a sensitive and never-ending process of societal change. Cities face challenges of expanding and shrinking populations, changing modes of production, loss of habitats for indigenous plants and animals require urbanized landscapes making cities more resilient.

The designer, in this context, serves as a researcher, planner, architect, and technologist, as well as a user and inhabitant, and ultimately, must think at multiple scales, constituencies, and parameters. Responding at multiple scales, from a larger urban territorial focus to the urban space at the bodily scale of the individual user.

In SP 2023, seven distinct Topical Studios will emphasize different lenses on urbanism and community design, including, Transport Oriented Development TOD, regeneration of urban scars, a focus on green spaces in public housing projects, small-town urbanism, and interior urbanism.

## METHODOLOGIES AND STAGES OF WORK:

Each of the seven Topical Studios in Year 4 in Long Island and New York City will investigate a specific methodology and area of interest in urban design and urbanism. The studio as a whole will promote and emphasize a critical and comparative understanding of processes of creation and transformation of urban morphologies. These may also be experimental, applied or proposed in a global perspective. These ideas will be delineated through drawings, diagrams, and models specific to the urban design and methods, specifically related to each of the seven Topical Studios. Many disciplines of knowledge such as urban design, planning, sociology, ecology, economics, technology, anthropology, etc., will be incorporated in a collaborative and integrated manner within the studio. **Open discussions/reviews among the students and with the professors will be encouraged between the different studio sections during the semester.**



## ELIJAH WILLIAMS WINTER 2022 (DRAFT Jan 17 2022)

DESIGN COURSE: ARCH 401: Design 5 - Comprehensive Studio NYIT WINTER 2022

### *Abstract:*

This project proposes a renovation and expansion of the existing Jamaica Station Transit center in the neighborhood of Jamaica in Queens, New York. Taking urbanism as a set of fabrics, interconnected by transit systems (public or otherwise) by considering this particular geographic location as the first interaction with the public infrastructure of not only New York, but the United States. Significant updates to the LIRR and AirTram facilities leave the pedestrian experience and connection to the community of Queens itself in need of study. By focusing on the goals and objectives of the initial expansion of Jamaica Station, to bring business and attention to this relatively remote section of Queens, while alleviating congestion on the LIRR tracks and creating alternatives to airport pick ups, this project aims to also integrate the subway into this modern transit hub. Already visible community centers are expanded by the creation of a new home for the Queens Night Market and home for the growing Jamaica Market, centering affordable and local food options for the wider community.

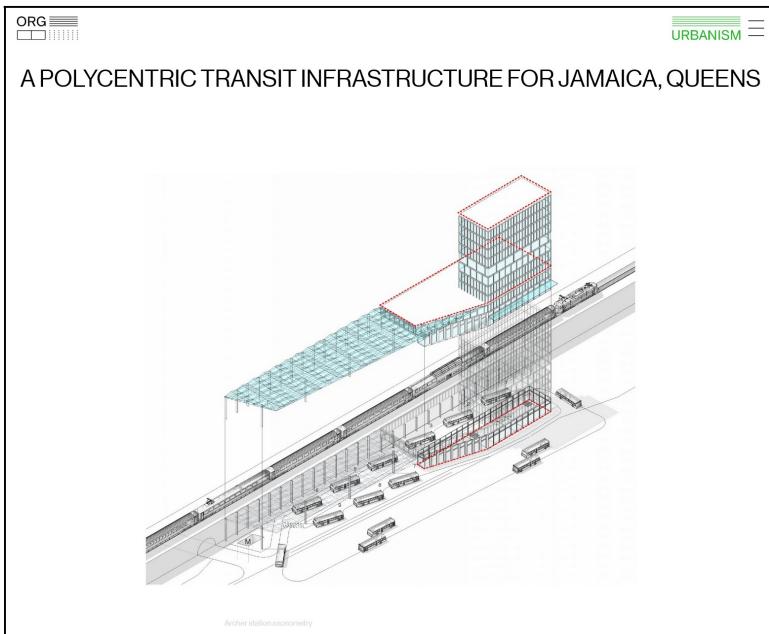
**"As roads were laid out, field[s] cleared and homes built...small communities took shape."**

Wilson, John E. "Historic Central Queens: A Brief History of Jamaica and Surrounding Communities". Queens Civic Record. April 1939, pg 21. History of Jamaica. Volume 1. Queens Borough Central Library Long Island

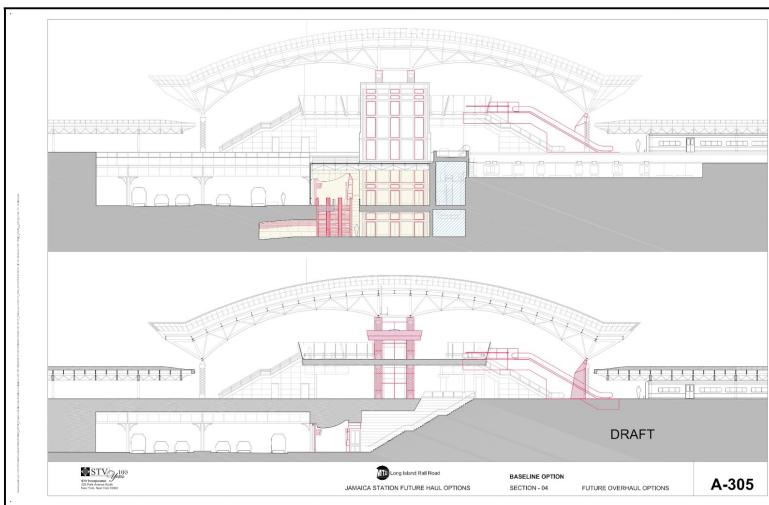
## → Specific Focus of Scale of Urbanism:

The use of public transportation in large scale urban planning (Original Construction 1914, 1994 expansion, 2001 Covering and current in progress extension and new rail lines of Jamaica Station LIRR)

Example Studies on Similar/Same Site:



<https://orgpermod.com/urbanism/projects/a-polycentric-transit-infrastructure-for-jamaica-queens>



<https://jonmilk.wordpress.com/the-people/>

Challenge the role of luxury housing (other projects on site) as “positive environmental development” in three ways:

Environmental Considerations of new construction

New Units as a way to solve the housing crisis in New York

Studying of pricing models and meaning of “low income” and “luxury”

## → Themes of urban communities: Studio Specific approach to urbanism, focus on diversity, equity and inclusion.

*This studio proposes to engage with and deconstruct Corporate Architectural / Developer Driven ideas around diversity, equity and inclusion in major urban development at the city wide scale in three ways and for three distinct user groups:*

**Major Property / Land Development**

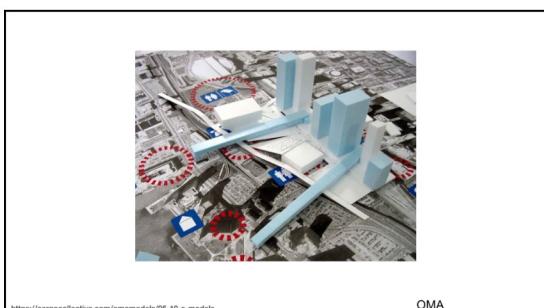
- Land Trusts / Public Private Ownership of Major Developments (<https://www.pca-stream.com/en/articles/building-tall-the-vernaculars-of-capitalism-49>)
- Public Transportation Facilities
- Housing

#### User Groups

- Historical Residents of the Surrounding Area, including Queens Community Board 12 with close proximity to Queens Community Board 9. Relevant Data: <https://communityprofiles.planning.nyc.gov/queens/12>
- 5 Borough Residents using Jamaica Station as a Transit Hub
- Visitors / Immigrants from abroad, coming to the United States for the first time.

### → Study Type in Urbanism

The students will engage in a model driven study of not only historical examples of dense urban fabrics created or destroyed by Architecture, but of modern systems that address the same issue. Using renovation and addition as an early jumping off point, this project engages with modern notions and solutions for infrastructure based architecture by changing scales from the mega to the micro.



*How? Propose Architectural Structures, with a focus on Programming, Circulation and Structural Performance*

### → Program / Scale of Proposed Design

Create a new exit system for the AirTram and connection to the subway, providing opportunities for both structural investigation of the existing buildings and ground condition.

#### Program Elements (DRAFT)

By closing a portion of Sutphin Avenue, a new market space and connection to the subway can be added.

Students will:

- Propose a new home for the “Queens Night Market” that allows year round sales and expands the existing
- Provide coin locker system for Tourist Baggage
- Create a central resource center for food and resource distribution within Queens Community Board District 9 and 12.
- Consider both historical and geographically diverse precedents in the creation of central transit centers.

Project with similar Programming and scale



Kyoto Station, Kyoto Japan: <https://www.skyscrapercenter.com/building/kyoto-station-building/23474>  
Google Earth



IIT Campus Center OMA <https://www.oma.com/projects/iit-mccormick-tribune-campus-center>  
Google Earth



Plan and model ©OMA (Top: Koolhaas, Rem. Mazzocchi, Giovanna. Post-occupancy. [Milan]: Editoriale Domus, 2006. Print; Bottom: IIT Archives.)

## → Proposed Schedule: Key stages of work in the semester (DRAFT)

*Phase 0: Design Charette and Site Model Studies*

*Phase 1: Site Visit and Initial Design Concepts*

*Phase 2: Structural Skeleton and Visual Representation*

*Phase 3: Final Board and Steel Competition (check schedule: <https://www.acsa-arch.org/competitions/2022-steel-competition/>)*

### **Phase 0**

Week 1: Introduction of Site and Relevant Research Topics

Week 2: Complete Initial Design Charette and Site Model

Week 3: Site Visit and Site Model (proposed presentation from architects)

### **Phase 1**

Week 4: Initial Design Concepts (Programming and Site location) (proposed meeting with shareholders)

Week 6: Circulation Studies and relation to Mass Transit Systems

### **Phase 2**

Week 8: Structural Modeling and Finished Drawings

Week 10: Mid Review

Week 12: Cross campus show

### **Phase 3**

Week 14: Presentation to local shareholders and detail model

Week 15: Work Time

Week 16: Final Review

## → Assignments: Early Design Charette (DRAFT)

Propose small scale additions to Jay Breaker House in given groups.

Each team is given a subject and a chunk of the site to build:



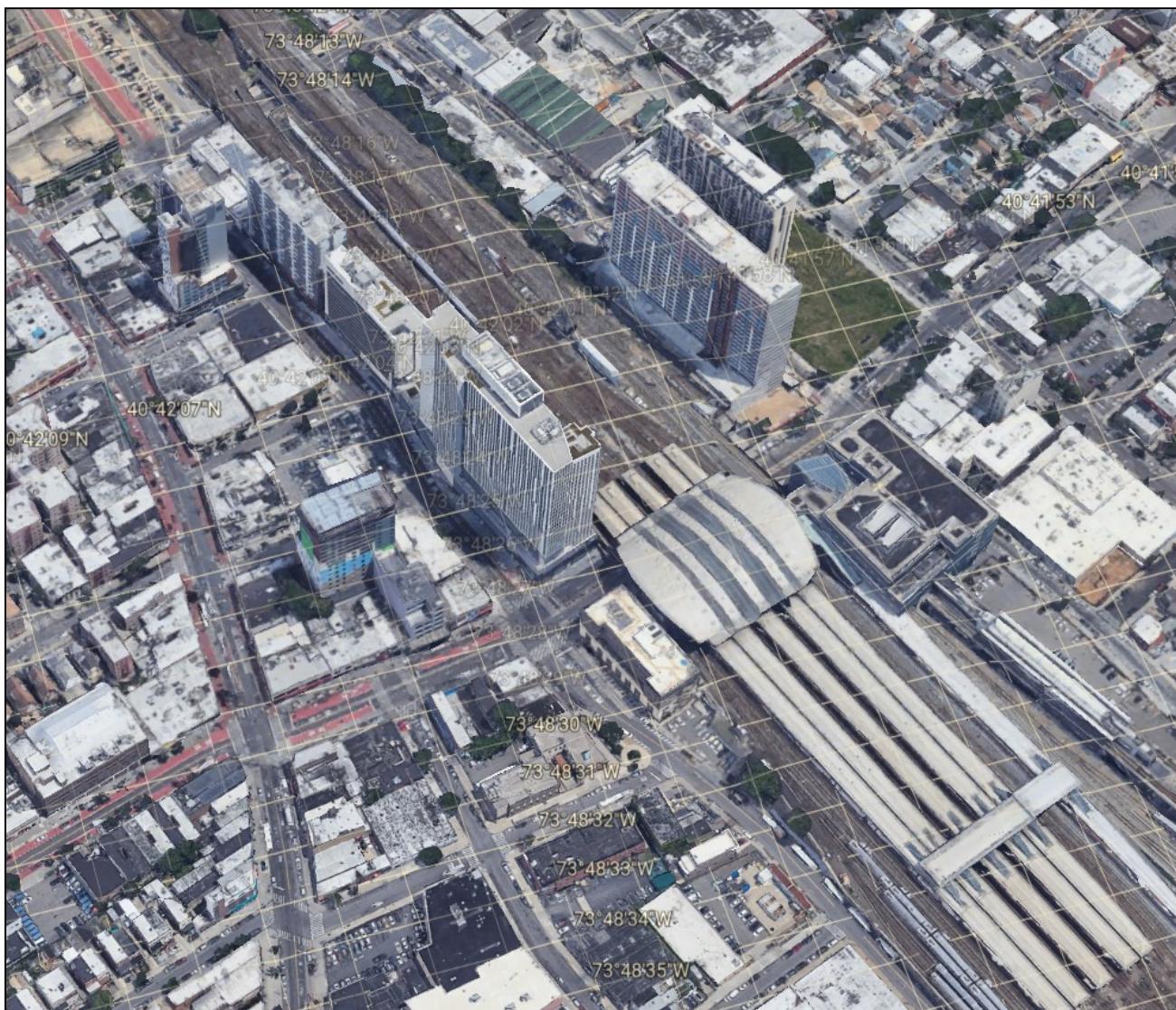
*Subjects: Light Condition, Sound Condition, Environmental Performance, Programming*

*Chunks: LIRR Station covering and tracks, Skeleton of Jamaica Station, 93-01 Sutphin Blvd and 147-07 94th Ave, Sutphin Street with Subways (removable street)*

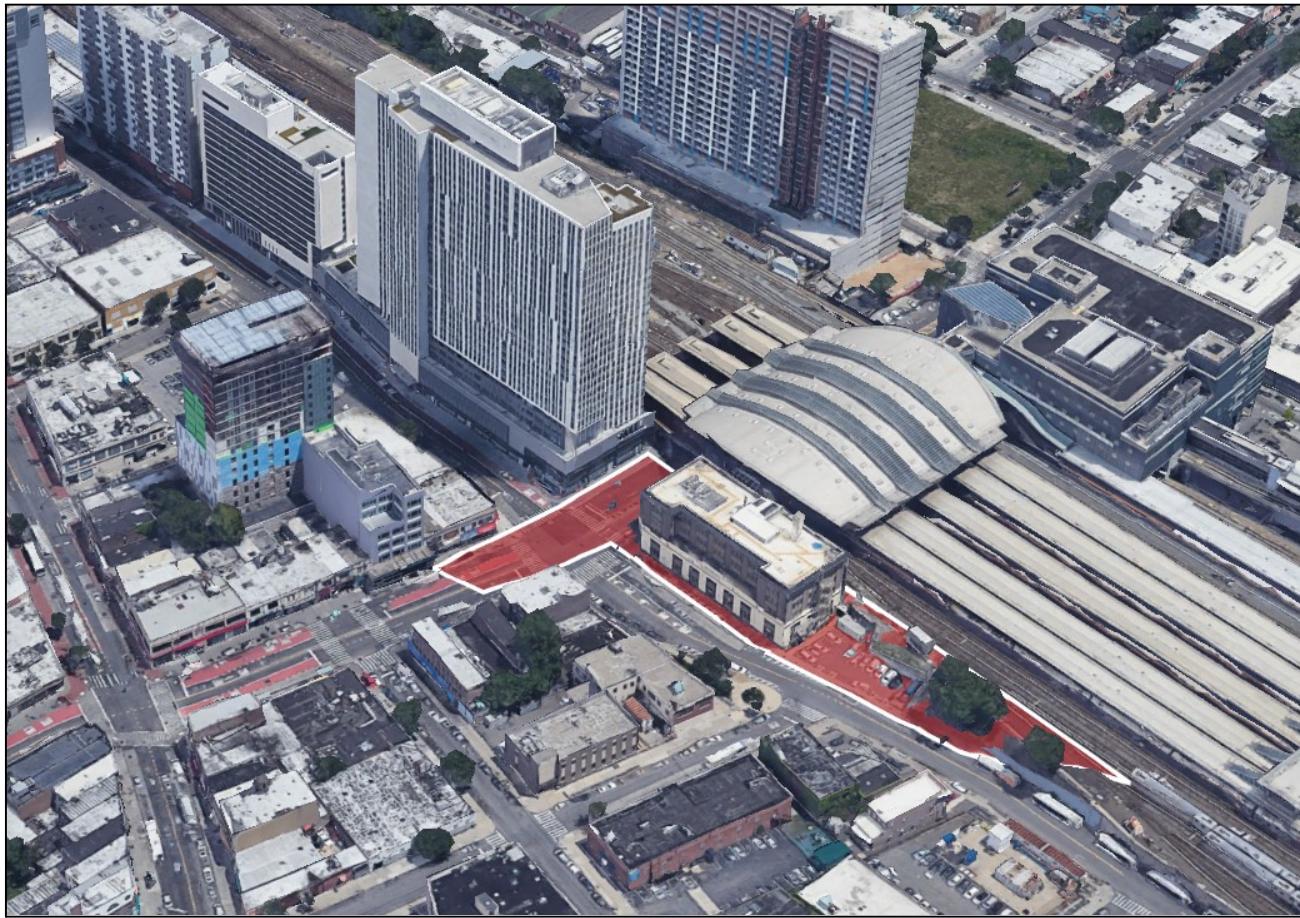
Professor will provide an example model building to work from and attach to at the set scale.

## The Problem:

The Current Iteration of the LIRR Jamaica Station:



Proposed Site:

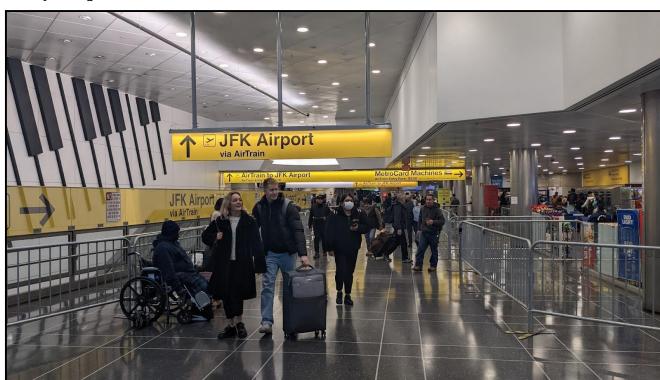


About 40,000 Sq Feet of Mixed Use Space

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## Major Components:

Entry Sequence:



Passageway:



Trainboarding:



Sutpin Blvd Archer Av - JFK Airport Stop:



Adam Moss from Highland Park, NJ, United States, CC BY-SA 2.0 <<https://creativecommons.org/licenses/by-sa/2.0/>>, via Wikimedia Commons

## Historical Development Changes:





## Indicators

The information below provides a snapshot of key socio-economic, demographic, and select service performance indicators. To provide further context, the selected district is displayed in comparison to all 59 community districts; where available, borough and City benchmarks are provided. The entire set of indicators may be downloaded in the Resources section below.

Estimate Margin of Error

### Age Under 18

**22.5%**

of residents are under the age of 18

Queens: 20.3%  
NYC: 20.9%



### Age 65 & Over

**13.3%**

of residents are age 65 and over

Queens: 14.8%  
NYC: 14.1%



### Rent Burden

**47.1%**

of households spend 35% or more of their income on rent

Queens: 46.2%  
NYC: 44.2%



### Access to Parks

**66.0%**

of residents live within walking distance of a park or open space

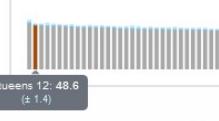


### Mean Commute to Work

**48.6**

minutes

Queens: 44.1  
NYC: 41.2



### Street Cleanliness

**96.6%**

of streets rated "acceptable" on the Street Cleanliness Scorecard in FY 2017

Queens: 98.3%  
NYC: 95.0%



### Crime

**2,670**

major felonies were reported in 2019

Queens: 18,526  
NYC: 92,480



### Educational Attainment

**22.5%**

of residents age 25 years and over have earned a bachelor's degree or higher

Queens: 31.5%  
NYC: 37.4%



### Limited English Proficiency

**15.4%**

of residents self-identify as having limited English proficiency

Queens: 29.1%  
NYC: 22.8%

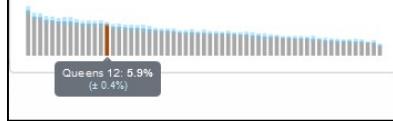


### Unemployment

**5.9%**

of the civilian labor force is unemployed

Queens: 4.0%  
NYC: 4.4%



### NYCgov Poverty Measure

**17.1%**

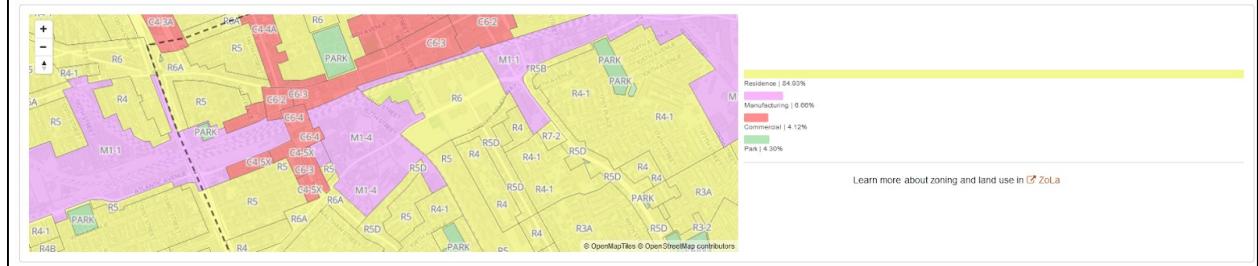
of residents have incomes below the NYCgov poverty threshold. Compare to federal poverty rate.

Queens: 17.3%  
NYC: 19.7%



## Site Zoning:

### Zoning



## Site Land Use:

### Land Use



## Example Housing Price Control Document:

| REVISED<br>Mixed Income Housing for Rent<br>THE CROSSING AT JAMAICA STATION<br>667 NEWLY CONSTRUCTED UNITS AT 148-10 ARCHER AVENUE & 147-40 ARCHER AVENUE, JAMAICA, QUEENS  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
|---|---------------------------|-----------------|-----------------------------|--------------------------------------|---------------------------|-----------------|-----------------------------|--------------------------------------|---------------------------|-----------------|-----------------------------|
| <p><b>Who Should Apply?</b></p> <p>Ameneetee: controlled entry access system, 24/7 on-site maintenance, fitness rooms, bicycle storage, outdoor terraces, children's rooms, resident lounges, laundry rooms, on-site management office (located at 148-10 Archer Ave).</p> <p>Transit: E/F/J/Z, LIRR, AirTrain, Q6, Q8, Q9, Q20A, Q20B, Q25, Q26, Q34, Q40, Q41, Q42, Q43, Q44-SBS, Q45, Q46, Q48, Q55, Q56, Q57, Q58, Q60.</p> <p>No application fee is no longer required. Monthly rent can be found online at <a href="http://www.rentalsatcrossing.com">www.rentalsatcrossing.com</a> or by calling 718-229-2200.</p> <p>Individuals or households who meet the income and household size requirements listed below may apply. Qualified applicants will be required to meet additional selection criteria. Applicants live in New York City receive a general preference for apartments.</p> <p>A percentage of units is set aside for applicants with disabilities:<br/> <ul style="list-style-type: none"> <li>o Moderate (25%).</li> <li>o Vision/Hearing (2%).</li> </ul> </p> <p>Preference for a percentage of units goes to:<br/> <ul style="list-style-type: none"> <li>o Residents of Queens Community Board 12 (50%).</li> <li>o Municipal Employees (5%).</li> </ul> </p> |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| <b>AVAILABLE UNITS AND INCOME REQUIREMENTS</b>  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| 60% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Studio  | \$633                     | 5               | 1 Person                    | \$73,658 - \$29,880                  | \$1,007                   | 17              | 1 Person                    | \$16,480 - \$44,820                  | \$1,380                   | 2               | 1 Person                    |
|   |                           |                 | 2 People                    | \$73,658 - \$34,160                  |                           |                 | 2 People                    | \$16,480 - \$51,240                  |                           | 2 People        | \$49,200 - \$59,760         |
| 1 Bed   | \$681                     | 11              | 1 Person                    | \$75,172 - \$29,880                  | \$1,081                   | 50              | 1 Person                    | \$19,088 - \$44,820                  | \$1,481                   | 13              | 1 Person                    |
|   |                           |                 | 2 People                    | \$75,172 - \$34,160                  |                           |                 | 2 People                    | \$19,088 - \$51,240                  |                           | 2 People        | \$52,800 - \$59,760         |
| 2 Bed   | \$787                     | 16              | 1 Person                    | \$75,172 - \$38,440                  | \$1,109                   | 51              | 3 People                    | \$19,088 - \$57,663                  | \$1,481                   | 13              | 3 People                    |
|   |                           |                 | 2 People                    | \$70,446 - \$34,160                  |                           |                 | 2 People                    | \$46,938 - \$51,240                  |                           | 2 People        | \$53,200 - \$68,320         |
| 3 Bed   | \$949                     | 3               | 1 Person                    | \$70,446 - \$38,440                  | \$1,504                   | 7               | 3 People                    | \$46,938 - \$57,663                  | \$1,789                   | 16              | 3 People                    |
|   |                           |                 | 2 People                    | \$75,172 - \$44,120                  |                           |                 | 3 People                    | \$46,938 - \$64,020                  |                           | 3 People        | \$63,355 - \$76,880         |
|   |                           |                 | 3 People                    | \$75,172 - \$54,120                  |                           |                 | 4 People                    | \$46,938 - \$64,020                  |                           | 4 People        | \$63,355 - \$85,360         |
|   |                           |                 | 4 People                    | \$75,172 - \$64,120                  |                           |                 | 5 People                    | \$46,938 - \$69,180                  |                           | 5 People        | \$63,355 - \$92,240         |
|   |                           |                 | 5 People                    | \$75,172 - \$74,120                  |                           |                 | 6 People                    | \$54,206 - \$57,663                  |                           | 6 People        | \$73,225 - \$76,880         |
|   |                           |                 | 6 People                    | \$75,172 - \$84,120                  |                           |                 | 7 People                    | \$54,206 - \$64,020                  |                           | 7 People        | \$73,225 - \$99,040         |
|   |                           |                 | 7 People                    | \$75,172 - \$94,120                  |                           |                 |                             | \$54,206 - \$74,280                  |                           |                 | \$73,225 - \$105,920        |
| 65% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$1,705                   | 2               | 1 Person                    | \$60,412 - \$93,375                  | \$1,946                   | 15              | 1 Person                    | \$66,675 - \$97,110                  |                           |                 |                             |
| 1 Bedroom   | \$2,142                   | 9               | 2 People                    | \$90,412 - \$106,750                 |                           |                 | 2 People                    | \$66,675 - \$111,020                 |                           |                 |                             |
| 2 Bedroom   | \$2,582                   | 11              | 1 Person                    | \$75,463 - \$93,375                  | \$2,442                   | 41              | 1 Person                    | \$85,749 - \$97,110                  |                           |                 |                             |
|   |                           |                 | 2 People                    | \$75,463 - \$106,750                 |                           |                 | 2 People                    | \$85,749 - \$111,020                 |                           |                 |                             |
|   |                           |                 | 3 People                    | \$75,463 - \$120,125                 |                           |                 | 3 People                    | \$85,749 - \$124,930                 |                           |                 |                             |
|   |                           |                 | 2 People                    | \$90,583 - \$106,750                 |                           |                 | 2 People                    | \$109,960 - \$111,020                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$90,583 - \$120,125                 |                           |                 | 3 People                    | \$109,960 - \$124,930                |                           |                 |                             |
|   |                           |                 | 4 People                    | \$90,583 - \$133,375                 |                           |                 | 4 People                    | \$109,960 - \$138,710                |                           |                 |                             |
|   |                           |                 | 5 People                    | \$90,583 - \$144,125                 |                           |                 | 5 People                    | \$109,960 - \$149,890                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$104,640 - \$120,125                |                           |                 | 3 People                    | \$118,903 - \$124,930                |                           |                 |                             |
|   |                           |                 | 4 People                    | \$104,640 - \$133,375                |                           |                 | 4 People                    | \$118,903 - \$138,710                |                           |                 |                             |
| 3 Bedroom   | \$2,975                   | 3               | 5 People                    | \$104,640 - \$144,125                | \$2,943                   | 39              | 5 People                    | \$118,903 - \$160,940                |                           |                 |                             |
|   |                           |                 | 6 People                    | \$104,640 - \$154,750                |                           |                 | 6 People                    | \$118,903 - \$177,120                |                           |                 |                             |
|   |                           |                 | 7 People                    | \$104,640 - \$165,500                |                           |                 | 7 People                    | \$118,903 - \$177,120                |                           |                 |                             |
| 70% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$2,587                   | 61              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 | \$3,243                   | 104             | 1 Person                    | \$111,3212 - \$123,255               |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 2 People                    | \$111,3212 - \$140,910               |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 3 People                    | \$111,3212 - \$154,565               |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 4 People                    | \$115,309 - \$124,930                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$107,075 - \$139,345                |                           |                 | 5 People                    | \$109,960 - \$138,710                |                           |                 |                             |
|   |                           |                 | 4 People                    | \$107,075 - \$154,715                |                           |                 | 3 People                    | \$118,903 - \$124,930                |                           |                 |                             |
|   |                           |                 | 5 People                    | \$107,075 - \$167,185                |                           |                 | 4 People                    | \$118,903 - \$149,890                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$123,660 - \$139,345                |                           |                 | 5 People                    | \$118,903 - \$154,565                |                           |                 |                             |
|   |                           |                 | 4 People                    | \$123,660 - \$154,715                |                           |                 | 6 People                    | \$115,309 - \$176,055                |                           |                 |                             |
| 3 Bedroom   | \$3,930                   | 2               | 5 People                    | \$123,660 - \$167,185                | \$3,804                   | 123             | 6 People                    | \$115,309 - \$180,245                |                           |                 |                             |
|   |                           |                 | 6 People                    | \$123,660 - \$179,510                |                           |                 | 7 People                    | \$115,309 - \$218,460                |                           |                 |                             |
|   |                           |                 | 7 People                    | \$123,660 - \$191,080                |                           |                 |                             |                                      |                           |                 |                             |
| 75% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$4,501                   | 11              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 |                           |                 | 3 People                    | \$115,309 - \$120,245                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 4 People                    | \$115,309 - \$154,565                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 5 People                    | \$115,309 - \$176,055                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 6 People                    | \$115,309 - \$190,245                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$107,075 - \$139,345                |                           |                 | 7 People                    | \$115,309 - \$218,460                |                           |                 |                             |
| 3 Bedroom   | \$3,930                   | 2               | 5 People                    | \$123,660 - \$167,185                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 6 People                    | \$123,660 - \$179,510                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 7 People                    | \$123,660 - \$191,080                |                           |                 |                             |                                      |                           |                 |                             |
| 80% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$4,501                   | 11              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 |                           |                 | 3 People                    | \$115,309 - \$120,245                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 4 People                    | \$115,309 - \$154,565                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 5 People                    | \$115,309 - \$176,055                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 6 People                    | \$115,309 - \$190,245                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$107,075 - \$139,345                |                           |                 | 7 People                    | \$115,309 - \$218,460                |                           |                 |                             |
| 3 Bedroom   | \$3,930                   | 2               | 5 People                    | \$123,660 - \$167,185                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 6 People                    | \$123,660 - \$179,510                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 7 People                    | \$123,660 - \$191,080                |                           |                 |                             |                                      |                           |                 |                             |
| 85% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$4,501                   | 11              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 |                           |                 | 3 People                    | \$115,309 - \$120,245                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 4 People                    | \$115,309 - \$154,565                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 5 People                    | \$115,309 - \$176,055                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 6 People                    | \$115,309 - \$190,245                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$107,075 - \$139,345                |                           |                 | 7 People                    | \$115,309 - \$218,460                |                           |                 |                             |
| 3 Bedroom   | \$3,930                   | 2               | 5 People                    | \$123,660 - \$167,185                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 6 People                    | \$123,660 - \$179,510                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 7 People                    | \$123,660 - \$191,080                |                           |                 |                             |                                      |                           |                 |                             |
| 90% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$4,501                   | 11              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 |                           |                 | 3 People                    | \$115,309 - \$120,245                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 4 People                    | \$115,309 - \$154,565                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 5 People                    | \$115,309 - \$176,055                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 6 People                    | \$115,309 - \$190,245                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$107,075 - \$139,345                |                           |                 | 7 People                    | \$115,309 - \$218,460                |                           |                 |                             |
| 3 Bedroom   | \$3,930                   | 2               | 5 People                    | \$123,660 - \$167,185                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 6 People                    | \$123,660 - \$179,510                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 7 People                    | \$123,660 - \$191,080                |                           |                 |                             |                                      |                           |                 |                             |
| 95% AREA MEDIAN INCOME (AMI)  |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$4,501                   | 11              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 |                           |                 | 3 People                    | \$115,309 - \$120,245                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 4 People                    | \$115,309 - \$154,565                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 5 People                    | \$115,309 - \$176,055                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 6 People                    | \$115,309 - \$190,245                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$107,075 - \$139,345                |                           |                 | 7 People                    | \$115,309 - \$218,460                |                           |                 |                             |
| 3 Bedroom   | \$3,930                   | 2               | 5 People                    | \$123,660 - \$167,185                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 6 People                    | \$123,660 - \$179,510                |                           |                 |                             |                                      |                           |                 |                             |
|   |                           |                 | 7 People                    | \$123,660 - \$191,080                |                           |                 |                             |                                      |                           |                 |                             |
| 100% AREA MEDIAN INCOME (AMI)   |                           |                 |                             |                                      |                           |                 |                             |                                      |                           |                 |                             |
| Unit Size   | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> | Annual Household Income <sup>3</sup> | Monthly Rent <sup>1</sup> | Units Available | Household Size <sup>2</sup> |
| Studio  | \$2,026                   | 8               | 1 Person                    | \$71,410 - \$106,315                 | \$4,501                   | 11              | 1 Person                    | \$90,652 - \$123,255                 |                           |                 |                             |
| 1 Bedroom   | \$2,542                   | 20              | 2 People                    | \$71,410 - \$123,800                 |                           |                 | 2 People                    | \$90,652 - \$140,910                 |                           |                 |                             |
| 2 Bedroom   | \$3,063                   | 19              | 1 Person                    | \$89,178 - \$106,315                 |                           |                 | 3 People                    | \$115,309 - \$120,245                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$89,178 - \$123,800                 |                           |                 | 4 People                    | \$115,309 - \$154,565                |                           |                 |                             |
|   |                           |                 | 3 People                    | \$89,178 - \$139,345                 |                           |                 | 5 People                    | \$115,309 - \$176,055                |                           |                 |                             |
|   |                           |                 | 2 People                    | \$107,075 - \$121,830                |                           |                 | 6 People                    | \$115,309 - \$190,245                | </                        |                 |                             |

It is important to identify and rely on individual strengths and skills in order to offer clear and effective communication. A clear division of labor while maintaining continual collaboration will be critical to your success. Practicing how to negotiate different interests and points of view in a team, both visually and verbally is an important aspect of Design VI. Even when tasks are distributed, all team members should be aware of what all others are doing and should be operating with each other's buy-in and input. Remember that architecture is inherently a collaborative form of practice.

#### **MIDTERM REQUIREMENTS < highly flexible by studio>**

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#### **INTER-CAMPUS COLLOQUIUM**

Each Design VI studio this semester will be presented with a different project brief, considering a different topic/ site/ aspect of the greater New York City area. This variety provides for the exploration of specific areas of focus, developed and guided individually by each professor. It also creates an opportunity for students to engage with their peers across all studios, and to share analysis, strategies, and ideas for a wider range of issues than could be presented in a single brief.

In order to facilitate the exposure to and conversation around each other's work, an Inter-Campus Colloquium will take place at a shared physical location on Friday March 31, 2023. Students will be asked to incorporate comments from their midterm design discussions, format both their process and polished work for exhibition, and display their projects-in-process for a shared review event.

#### **FINAL REQUIREMENTS < highly flexible by studio>**

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#### **PORFOLIO:**

Each student is required to collect, select and edit all the material produced during the semester individually and the final scheme by their team. The portfolio will be due one (1) week after the Final Presentation, or as required by faculty. Each student shall submit a portfolio of the work of the semester in a digital format as follows:

DIGITAL PORTFOLIO –One (1) COPY to be submitted to the instructor in the designated ONE DRIVE Folder by each instructor.  
-final presentation in PDF format (full size), saved as high quality color print  
-portfolio in PDF format (8 ½" x 11"), saved as high quality color print  
-links, high resolution source files for final presentation and portfolio, including model photographs.

#### **LABELING CONVENTION**

(Naming convention for digital files depending on each professor's instructions):

YOUR\_NAME\_Final.pdf

YOUR\_NAME\_Portfolio.pdf

(Naming convention all source files):

YOUR\_NAME\_1.pdf

YOUR\_NAME\_1.jpg

## SEMESTER SCHEDULE

| DAY     | DATE  | STUDIO ACTIVITY  |
|---------|-------|--|
| Tuesday | 01.24 | * ARCH 402 Introductions by all studio professors<br>* Studio Introduction by each professor to their studio |
| Friday  | 01.27 |  |
| Tuesday | 01.31 |  |
| Friday  | 02.03 |  |
| Tuesday | 02.07 |  |
| Friday  | 02.10 |  |
| Tuesday | 02.14 |  |
| Friday  | 02.17 |  |
| Tuesday | 02.21 |  |
| Friday  | 02.24 |  |
| Tuesday | 02.28 |  |
| Friday  | 03.03 |  |
| Tuesday | 03.07 |  |
| Friday  | 03.10 |  |
| Tuesday | 03.14 | <b>MIDTERM REVIEW: Altwicker / Ruppert / Williams</b>  |
| Friday  | 03.17 | <b>MIDTERM REVIEW: Verebes / Purisic / Neff / Nolan</b>  |
| Tuesday | 03.21 | <b>SPRING BREAK – NO CLASS</b>   |
| Friday  | 03.24 | <b>SPRING BREAK – NO CLASS</b>   |
| Tuesday | 03.28 |  |
| Friday  | 03.31 | <b>YEAR 4 COLLOQUIUM: Manhattan Campus OR Long Island Campus</b>   |
| Tuesday | 04.04 |  |
| Friday  | 04.07 |  |
| Tuesday | 04.11 |  |

|         |       |   |
|---------|-------|---|
| Friday  | 04.14 |   |
| Tuesday | 04.18 |   |
| Friday  | 04.21 |   |
| Tuesday | 04.25 |   |
| Friday  | 04.28 |   |
| Tuesday | 05.02 |   |
| Friday  | 05.05 |   |
| Tuesday | 05.09 | <b>FINAL REVIEW Verebes/Williams,<br/>Altwicker/Neff</b>    |
| Friday  | 05.12 | <b>FINAL REVIEW Purisic/Nolan/Ruppert</b>                   |
| Tuesday | 05.16 | <b>Portfolio Submission Deadline on GDrive<br/>– 5:00pm</b> |

## **STAKEHOLDERS & COLLABORATORS: <if relevant>**

The studio allows students to have the opportunity to present their collective efforts and exciting proposals to representatives of the local communities and other stakeholders and public planning agencies / organizations to whom the future of this area is critical. These agencies offer valuable feedback and a “client’s point of view,” but are also energized by the thoughtful and innovative ideas discussed.

## **RESOURCES/ READING LIST <aggregated suggestions to be culled individually>**

### **URBAN/ARCHITECTURAL HISTORY & THEORY**

- Stan Allen (1995). “From Object to Field”, Architectural Design AD, Architecture After Geometry issue (Donald Bates & Peter Davidson eds.), London: Wiley-Academy.
- Reyner Banham (1948). Mechanization Takes Command: A Contribution to Anonymous History, Oxford: Oxford University Press.
- Manuel Castells (1996). The Rise of the Network Society, Oxford: Blackwell.
- Adam Frampton, Jonathan Solomon, Clara Wong (2012). Cities without Ground. Hong Kong: ORO Editions.
- Kenneth Frampton (1983). “Towards a Critical Regionalism: Six Points for an Architecture of Resistance,” in The
- David Gartman (2009), ‘Introduction’, Autos to Architecture: Fordism and Architectural Aesthetics in the Twentieth Century, New York: Princeton University Press.
- Patrick Geddes (1915). Cities in Evolution: An Introduction to the Town Planning Movement and to the Study of Civics, London: Forgotten Books.
- Rem Koolhaas (1994). “Bigness”, in SMLXL, by Rem Koolhaas and Bruce Mau, New York: Monacelli Press
- Rem Koolhaas (1994). “The Generic City,” in SMLXL, by Rem Koolhaas and Bruce Mau, New York: Monacelli Press, 1995, p. 1248-1264.
- Sanford Kwinter (2011). Requiem for the City at the End of the Millennium, Barcelona: Actar.
- Richard T. Le Gates, Frederic Stout (1996). “Introduction to Part One: The Evolution of Cities,” in The City Reader, London/New York: Routledge.
- Paul Lewis, Marc Tsuramaki, David J. Lewis (2016). Manual of Section. New York: Princeton Architectural Press.
- Stephen Marshall (2009). Cities, Design, Evolution, New York: Routledge.
- Ian L. McHarg (1969). Design with Nature, Minnesota: Doubleday / Natural History
- Press.
- Mohsen Mostafavi, Garret Doherty (2010). Ecological Urbanism, Baden: Lars Müller.
- Lewis Mumford (1961). The City in History, San Diego, New York and London: Harcourt Brace Jovanovitch.
- Fitaru Nanjo (2011). Metabolism, the City of the Future: Dreams and Visions of Reconstruction in Postwar and Present-Day Japan, Tokyo: Mori Art Museum.

### **COMPUTATIONAL URBANISM**

- Christopher Alexander (1968). “Systems Generating Systems” in Systemat, Berkley: Inland Steel Products Company
- Michael Batty (2005). Cities and Complexity, Cambridge: MIT Press.
- Michael Batty (2013). The New Science of Cities, Cambridge: MIT Press.
- Christine M. Boyer (2015) “On Modelling Complexity and Urban Form”, AD Mass Customised Cities, Tom Verebes, Guest Ed., Profile 138, November 2015 issue, London: Wiley.
- Steven Johnson (2001). Emergence: The Connected Lives of Ants, Brains, Cities and Software, London: Penguin.
- Neil Leach, Ed., (2009). Digital Cities, Architectural Design AD, London: Wiley-Academy.
- William J. Mitchell (1994). City of Bits: Space, Place and the Infobahn, Cambridge:

- MIT. Antoine Picon (2015). Smart Cities: A Spatialised Intelligence, London: Wiley AD Primers, 9.
- Patrik Schumacher (2008). "Parametricism - A New Global Style for Architecture and Urban Design", in Architectural Design AD, AD Architectural Design - Digital Cities, Vol 79, No 4, July/August 2009, Guest Editor: Neil Leach. London: Wiley. p.14.23. Anthony Shannon K. & Smets M. The Landscape of contemporary infrastructure (2010)
- Hauck, Keller, Kleinebort, Infrastructural Urbanism: Addressing the In-between (2011)
- Karagon R. and Moella A. Invented Eden: Techno Cities of the Twentieth Century (2008)
- M. Townsend (2013). "Urbanisation and Ubiquity", Introduction to Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia (New York: W. W. Norton).
- Tom Verebes (2015). AD Mass Customised Cities, (Tom Verebes, Guest Ed.) Profile 138, November 2015 issue, (London: Wiley) 2015.
- Tom Verebes (2013). Masterplanning the Adaptive City: Computational Urbanism in the Twenty-first Century, New York: Routledge.
- Michael Weinstock (ed.) (2013). System City, Architectural Design AD, London: Wiley-Academy. Michael Weinstock (2010). The Architecture of Emergence, London: Wiley.

### **LANDSCAPE URBANISM / ECOLOGICAL URBANISM**

- Waldheim, Charles. Landscape Urbanism Reader (2006)
- Mostafavi, Mohsen and Doherty, Gareth, eds. Ecological Urbanism (Lars Muller Publishers, 2010)
- Shane, David. Recombinant Urbanism: Conceptual Modeling in Architecture, Urban Design, and City Theory. Great Britain: Wiley and Sons, Ltd., 2005
- Allen, Stan. Landform Building: Architecture's New Terrain
- Shannon K. & Smets M. The Landscape of contemporary infrastructure (2010) Hauck, Keller, Kleinebort, Infrastructural Urbanism: Addressing the In-between (2011) Jenkins, Eric To Scale: One Hundred Urban Plans (Routledge January 25, 2008) Childs Mark C . Squares: A Public Place Design Guide for Urbanists (2006)
- Disaster Resilience: A National Imperative. Washington, D.C.: National Academies Press, 2012.
- Mathur, Anuradha and Dilip da Cunha. 2001. Mississippi Floods: Designing a Shifting Landscape. New Haven: Yale University Press.
- Vale, Lawrence J. "The Politics of Resilient Cities: Whose Resilience and Whose City?" Building Research & Information 42, no. 2 (March 4, 2014): 191–201
- Design for Flooding: Architecture, Landscape, and Urban Design for Resilience to Climate Change. 1 edition. Hoboken, N.J: Wiley, 2010. Chapter 7 – flood design analysis: pg 135 -148, Chapter 8 – the coast: pg 150 – 167, Chapter 10- Flood Resistant Design: pg 199-216

## **NEW YORK CITY RESOURCES**

### **Required Reference Books and Materials**

- PlaNYC "A Stronger, More Resilient New York" (released June 2013) New York City Department of City Planning, Zoning Handbook (2011)
- Bergdoll, Barry. Rising Currents: Projects for New York's Waterfront MOMA (2010) Ascher, Kate. The Works: Anatomy of a City (New York: The Penguin Press, 2005)
- Tufte, Edward. Envisioning Information (Cheshire, Conn.: Graphics Press, 1990)
- City of New York. PlaNYC: A Greener, Greater New York (2007)
- New York City Department of Transportation, Street Design Manual. (2009) Larice, Michael. The Urban Design Reader (New York: Routledge 2013)