ABSTRACT

Title of Document: HUDSON YARDS REDEVELOPMENT: NEIGHBORHOOD IDENTITY THROUGH URBAN SPACE AND MULTICULTURAL ARTS COLLEGE

Jeannie Ahn, Master of Architecture, 2006

Directed By: Professor of Practice, Gary Bowden, School of Architecture, Planning, and Preservation

New York City, with its recognizable neighborhoods, has been known for constantly reinventing itself to address the needs of its residents and fluctuations in the local economy. It has flourished as a major attraction to various ethnic groups that have settled in these varied neighborhoods from its beginnings as a Dutch fur-trading port to its present state.

The Hudson Yards, is the city’s most underutilized and underdeveloped property due to its current zoning and lack of access by subway service. This thesis explores development of an identifiable neighborhood for the Hudson Yards through the creation of a civic urban space with a multicultural institution as its anchor. Seen as the city’s “last frontier\(^1\),” the site creates a great opportunity to celebrate the city’s multicultural history by developing an institution with community services that seeks

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\(^1\) New York City Department of City Planning
to promote the preservation, performance, and educational exchange of the performing and visual folk arts.
HUDSON YARDS REDEVELOPMENT: NEIGHBORHOOD IDENTITY THROUGH URBAN SPACE AND MULTICULTURAL ARTS COLLEGE

By

Jeannie Ahn

Thesis submitted to the Faculty of the Graduate School of the University of Maryland, College Park, in partial fulfillment of the requirements for the degree of Master of Architecture 2006

Advisory Committee:
Professor of Practice Gary Bowden, Chair
Associate Professor Matthew Bell
Professor Karl DuPuy
Assistant Professor Angel David Nieves
Dedication

To my mother, Soon Hee Ahn, for her love and support, and for inspiring my appreciation for the performing and fine arts.
Acknowledgements

I would like to thank my committee, friends, and family for their enormous support. I would especially like to thank the following helpers who dedicated many hours in preparation for my final presentation: Sam Kang, Jason Shih, Kimberly Lee, and Alejandra Hernandez.
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Chapter 1: Introduction

Early on, New York City was shaped by many distinct neighborhoods settled by distinct ethnic groups. However, with the rise of the global economy through advances in transportation and communications technology, more and more New Yorkers come into contact with people from all nations of the world. New York City has become a truly cosmopolitan city with immigrants from almost 200 countries calling the “Big Apple” home.

This thesis proposes to develop a multicultural folk art center at the heart of the city’s cultural and commercial hub, Manhattan, to celebrate its multicultural makeup. The center seeks to promote the preservation, performance, and educational exchange of folk performance arts to two communities, the local neighborhood and the regional community. By providing much needed community services and outreach programs, the center would serve as an anchor to the local community. The regional community would be served by the academic component where students are trained in ethnic dance, music, and fine arts.

The site being considered for the multicultural folk art center is the Hudson Yards located in the Far West Side of Manhattan. At present, it is an underutilized area littered with warehouses, light manufacturing facilities, and transportation
infrastructure. Despite these negative attributes, it is an area that is rich with opportunities. The sunken train yard is the city’s “last frontier” with over 300 acres of development possibilities. It lies on the fringes of two unique neighborhoods, Hell’s Kitchen and Chelsea as well as the Theater and Garment Districts. According to the Department of City Planning’s (DCP) early planning studies, the Hudson Yards has several unique assets that make it desirable for development:

- Proximity to Midtown
- Developable land
- Proximity to the waterfront
- Regional gateway
- Community focal points, such as Ninth Avenue
- Varied topography with multiple levels
- Large, active public buildings

Recently, the DCP has put forth a comprehensive master plan striving to transform the site into an area comparable to Midtown. It envisions a place where New Yorkers and tourists will want to live, work, play and visit. This thesis will challenge the design of one aspect of the master plan, the open space network. In order to help facilitate a better sense of place and identity, this thesis proposes development of a unified green space along the Hudson River.

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Chapter 2: Multicultural Folk Arts College as Local and Regional Community Uniter

_Multicultural Folk Arts College_

The Multicultural Folk Arts College (MFAC) is a joint venture between two major public universities within New York: State University of New York (SUNY) and City University of New York (CUNY). Both institutions have a very diverse student body and have campuses spread over large areas.

SUNY is comprised of 64 campuses distributed over the entire state of New York with two campuses in Manhattan, the Fashion Institute of Technology (FIT) and State College of Optometry. CUNY, on the other hand, is made up of 19 campuses that are sprinkled around all five boroughs of New York City. This institution is extremely proud of its diversity where students come from 167 countries and speak 119 languages. They see themselves as a “global university” with a long tradition of students coming from all backgrounds.

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4 The State University of New York [http://www.suny.edu/]
5 The City University of New York[http://www1.cuny.edu/abtcuny/trustees/bennoagbarticlecolor.pdf]
Undergraduate Student Profile

Race/Ethnicity:
- Black 31%
- White 29%
- Hispanic 26%
- Asian 14%
- American Indian 0.1%

Female 62%
25 years or older 35%
Born outside US mainland (first-time freshmen) 43%
Native language not English (first-time freshmen) 49%
Native languages represented 119
Number of countries of identity 167
Work 20+ hours per week 44%
Support children 22%
Attend full-time 62%
Receive financial aid (Full-time degree students) 70%
Attended NYC public high school (First-time freshmen) 62%

Table 1: Undergraduate student profile for CUNY. Note the high percentage of minority students and the number of languages and countries represented.
[http://portal.cuny.edu/portal/site/cuny/?epi_menuItemID=840a1e9cd3eccca64bef4d5178304e08&epi_menuID=a00e05b]

The mission for the MFAC is to foster more understanding and increased awareness of the differences, but moreover the similarities, of the various cultures residing in New York. The center focuses on the preservation, performance, and educational exchange of the folk arts—dance, music, and fine arts—and the interaction and collaboration between local and regional communities. One last goal of the center is to create a learning environment for students of all ages, a truly multigenerational center of learning by housing the three distinct programs of study geared to various age groups.
Program Elements

The center is composed of three elements:

(1) The Preparatory – Functions similarly to after school programs with classes for children to adults for personal development in the folk arts.

(2) The Academy – Focuses on teaching the folk arts for professional development in conjunction with anthropology courses. Students engage in aspects of multiculturalism through observation and participation.

(3) The Elderhostel – Aims to promote “lifelong learning” through educational adventures for adults 55 and over.

Precedents

In order to assemble the various pieces of the building’s program, two institutions were used as precedents because they embodied the educational focus of the MFAC:

(1) The Clarice Smith Performing Arts School

   University of Maryland, College Park, Maryland

(2) The Peabody Institute

   Johns Hopkins University, Baltimore, Maryland

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6 Elderhostel [http://www.elderhostel.org/welcome/home.asp]
The Clarice Smith Performing Arts School

Clarice Smith houses the university’s performing arts programs of music, dance, and theater. Primarily geared for teaching, the school has several intimately scaled performance spaces organized along the Grand Pavilion, a grand lobby space, which acts as the “town square” to the academic village. Since the MFAC will be centered around teaching within an academic setting, its performance spaces will be comparable to the sizes of those of Clarice Smith.

Figure 3: First floor plan of the Clarice Smith Performing Arts School highlighting major programs organized in a pinwheel fashion around a grand lobby space. [map courtesy of Clarice Smith Performing Arts School]
Table 2: Major program elements of Maryland Center for Performing Arts [University of Maryland College Park. Maryland Center for Performing Arts: Facility Program. Sept. 2003].

<table>
<thead>
<tr>
<th>Major Program Elements</th>
<th>Seating Capacity</th>
<th>NASF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grand Pavilion</td>
<td>325</td>
<td>3,800</td>
</tr>
<tr>
<td>Elsie &amp; Marvin Dekelboum Concert Hall</td>
<td>1100</td>
<td>15,600</td>
</tr>
<tr>
<td>Ina &amp; Jack Kay Theater</td>
<td>650</td>
<td>10,148</td>
</tr>
<tr>
<td>Dance Theater</td>
<td>190</td>
<td>3,500</td>
</tr>
<tr>
<td>Joseph &amp; Alma Gildenhorn Recital Hall</td>
<td>300</td>
<td>5,300</td>
</tr>
<tr>
<td>Laboratory Theater</td>
<td>120</td>
<td>1,430</td>
</tr>
<tr>
<td>Robert &amp; Arlene Kogod Theater</td>
<td>195</td>
<td>2,860</td>
</tr>
<tr>
<td>Michelle Smith Performing Arts Library</td>
<td>23,100</td>
<td></td>
</tr>
</tbody>
</table>
The Peabody Institute

The Peabody Institute is an urban music school with classrooms, private teaching rooms, practice rooms, performance spaces, dance studios, libraries, offices, dormitories, and a cafeteria concentrated on one block of Baltimore, Maryland. It is composed of the following programs:

- The Preparatory
  - Community performing arts school for all ages of students from children to adults
- The Conservatory
  - 50% graduate; 50% undergraduate
  - Incubate and promote infinitely valuable art forms
  - Serves as a gathering place for the intellectual and artistic members of the music community
- Elderhostel
  - Second largest Elderhostel program in the US
  - Brings nearly 4,000 seniors to Baltimore for courses in music every year
  - Weeklong “study vacations” feature topical music classes and daily performances by Peabody students and faculty.
  - Promotes lifelong learning

7 Following information courtesy of the Peabody Institute website [http://www.peabody.jhu.edu/home.php]
Figure 3: General organization of Peabody Institute with buildings holding the edge of the block and creating an internal plaza with the residual space. The school component lines East Mt. Vernon Place and fronts Mt. Vernon Square. The residences and Elderhostel program hold the edge along Centre Street. [Image courtesy of the Peabody Institute]

Figure 4: Exterior views of the Peabody Institute. At right, the formal conservatory building has a presence on Mt. Vernon Square which varies in scale and appearance to the facades of the residential components along Centre Street. [Images courtesy of http://www.aia.org/aiarchitect/thisweek05/tw0121/0121aiavam_12peabodylns_b.jpg and http://www.wam.umd.edu/~jlehnert/today.htm]
### The MFAC Building Program

#### Shared Facilities

<table>
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<th>Facility</th>
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<tr>
<td>Public Lobby</td>
<td>8,500</td>
</tr>
<tr>
<td>Coat Room</td>
<td>300</td>
</tr>
<tr>
<td>Restaurant and Kitchen</td>
<td>3,500</td>
</tr>
<tr>
<td>Cafeteria &amp; Kitchen</td>
<td>3,500</td>
</tr>
<tr>
<td>Box Office</td>
<td>885</td>
</tr>
<tr>
<td>Faculty Staff Lounge</td>
<td>1,200</td>
</tr>
<tr>
<td>Student Lounge</td>
<td>1,200</td>
</tr>
<tr>
<td>General Purpose Class Room (2 @ 500)</td>
<td>1,000</td>
</tr>
<tr>
<td>General Purpose Class Room (2 @ 375)</td>
<td>740</td>
</tr>
<tr>
<td>Practice Studio</td>
<td>(4 @ 120) 480</td>
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<tr>
<td>Practice Studio (24 @ 70)</td>
<td>1,680</td>
</tr>
<tr>
<td>Art Gallery</td>
<td>2,000</td>
</tr>
<tr>
<td>Art Gallery Exhibit Preparation</td>
<td>500</td>
</tr>
<tr>
<td>Art Gallery Storage</td>
<td>400</td>
</tr>
<tr>
<td>Public Restrooms - Male</td>
<td>700</td>
</tr>
<tr>
<td>Public Restrooms – Female</td>
<td>1,400</td>
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#### Ethnomusicology Department

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<tr>
<td>Concert Hall Stage</td>
<td>3,600</td>
</tr>
<tr>
<td>Control Room, Concert Hall</td>
<td>460</td>
</tr>
<tr>
<td>Room Description</td>
<td>Count/Size</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Recital Hall Seating and Stage</td>
<td>5,300</td>
</tr>
<tr>
<td>Control Room, Recital Hall</td>
<td>260</td>
</tr>
<tr>
<td>Assembly Warm-up</td>
<td>300</td>
</tr>
<tr>
<td>Dressing Rooms</td>
<td>800</td>
</tr>
<tr>
<td>Small Ensemble Rehearsal</td>
<td>(1 @ 400, 1 @ 250) 650</td>
</tr>
<tr>
<td>Chorus Rehearsal</td>
<td>2,400</td>
</tr>
<tr>
<td>Ethno/Musicological Instrument Studio</td>
<td>(4 @ 300) 1,200</td>
</tr>
<tr>
<td>Music Class Rooms</td>
<td>(7 @ 600) 4,200</td>
</tr>
<tr>
<td>Music Small Lecture Hall</td>
<td>1,400</td>
</tr>
<tr>
<td>Music Seminar Rooms</td>
<td>(2 @ 400) 800</td>
</tr>
<tr>
<td>Scores and Music Storage</td>
<td>1,250</td>
</tr>
<tr>
<td>Instrument Storage and Repair</td>
<td>2,150</td>
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<tr>
<td>Student Instrument Storage</td>
<td>300</td>
</tr>
<tr>
<td>Audio-Visual (A.V.) Storage</td>
<td>220</td>
</tr>
<tr>
<td>Faculty Studio and Office</td>
<td>(25 @ 225) 5,625</td>
</tr>
<tr>
<td>Staff Offices</td>
<td>(7 @ 125) 875</td>
</tr>
<tr>
<td>Secretary/Reception</td>
<td>250</td>
</tr>
<tr>
<td>Office of the Chair</td>
<td>180</td>
</tr>
<tr>
<td>Associate Chair Office</td>
<td>140</td>
</tr>
<tr>
<td>Business Manager’s Office</td>
<td>125</td>
</tr>
<tr>
<td>Conference Room</td>
<td>500</td>
</tr>
<tr>
<td>Faculty Offices</td>
<td>(12 @ 125) 1,500</td>
</tr>
</tbody>
</table>

Folk Dance Department
<table>
<thead>
<tr>
<th>Area (Location)</th>
<th>Size (sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theater Management Office</td>
<td>600</td>
</tr>
<tr>
<td>Studio Theater (flexible)</td>
<td>3,365</td>
</tr>
<tr>
<td>Control Room, Studio Theater</td>
<td>260</td>
</tr>
<tr>
<td>Proscenium Theater Stage</td>
<td>3,648</td>
</tr>
<tr>
<td>Proscenium Theater Seating and Orchestra Pit</td>
<td>6,500</td>
</tr>
<tr>
<td>Trap Room, Proscenium Theater</td>
<td>320</td>
</tr>
<tr>
<td>Control Room, Proscenium Theater</td>
<td>460</td>
</tr>
<tr>
<td>Assembly/Warm-Up</td>
<td>300</td>
</tr>
<tr>
<td>Scene Shop</td>
<td>3,600</td>
</tr>
<tr>
<td>Faculty Office/Studio, Production</td>
<td>(4 @ 200) 800</td>
</tr>
<tr>
<td>Staff Office, Production</td>
<td>(3 @ 125) 375</td>
</tr>
<tr>
<td>Lighting Shop</td>
<td>1,200</td>
</tr>
<tr>
<td>Properties Shop</td>
<td>2,000</td>
</tr>
<tr>
<td>Studios 1 &amp; 2</td>
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</tr>
<tr>
<td>Choreography Studio</td>
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<td>Video Lab</td>
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<tr>
<td>Audio Lab</td>
<td>100</td>
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<tr>
<td>Chair’s Office</td>
<td>150</td>
</tr>
<tr>
<td>Financial Officer</td>
<td>125</td>
</tr>
<tr>
<td>Receptionist/Secretary</td>
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<td>Faculty Offices</td>
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<tr>
<td>Locker/Shower, Male</td>
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<tr>
<td>Locker/Shower, Female</td>
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</tr>
<tr>
<td>Space</td>
<td>Hours</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Costume Shop</td>
<td></td>
</tr>
<tr>
<td>Fitting Room of Costume Shop</td>
<td></td>
</tr>
<tr>
<td>Laundry Room of Costume Shop</td>
<td></td>
</tr>
<tr>
<td>Dyeing Room of Costume Shop</td>
<td></td>
</tr>
<tr>
<td>Faculty Office/Studio, Costume</td>
<td></td>
</tr>
<tr>
<td>Costume Storage</td>
<td></td>
</tr>
<tr>
<td>Sculpture/Metal Arts Studio</td>
<td></td>
</tr>
<tr>
<td>Jewelry/Metalsmithing Studio</td>
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<tr>
<td>Ceramics Studio</td>
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<tr>
<td>Textiles Studio</td>
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<tr>
<td>Kiln Room</td>
<td></td>
</tr>
<tr>
<td>Drawing/Painting Studio</td>
<td></td>
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<tr>
<td>Printmaking Studio</td>
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<td>Computer Graphics Lab</td>
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<tr>
<td>Mock-up Studio</td>
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<tr>
<td>Art Locker/Shower Rooms</td>
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<tr>
<td>Arts Studio Storage</td>
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<td>Library</td>
<td></td>
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<td>Staff Offices</td>
<td></td>
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<tr>
<td>Reading Room</td>
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<td>Listening Stations</td>
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<td>Public Access – stacks</td>
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</tr>
<tr>
<td>Area</td>
<td>Square Feet</td>
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<td>-------------------------------------------</td>
<td>-------------</td>
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<td>Service Desk Access – library stacks</td>
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<td>Security Vault</td>
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<td>Non-public Access – library stacks</td>
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<tr>
<td>Reference &amp; Circulation Desk</td>
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<tr>
<td>Staff Preservation Work Area</td>
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<tr>
<td>Book Circulation Work Room</td>
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<tr>
<td>Lockers</td>
<td>100</td>
</tr>
<tr>
<td><strong>Support</strong></td>
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<tr>
<td>Rest Rooms</td>
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<td>Computer Server Room</td>
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<tr>
<td>General Storage</td>
<td>1,000</td>
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<tr>
<td>Loading Dock/Receiving</td>
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</tr>
<tr>
<td>Maintenance Shop &amp; Storage</td>
<td>450</td>
</tr>
<tr>
<td>Housekeeping Room</td>
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<tr>
<td>Housekeeping Storage</td>
<td>400</td>
</tr>
<tr>
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<tr>
<td>Trash/Recycling</td>
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<tr>
<td>Mechanical &amp; Electrical</td>
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</tr>
<tr>
<td>Circulation</td>
<td>(@ 15%)</td>
</tr>
<tr>
<td>Facility</td>
<td>Cost</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>University Residences</td>
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<tr>
<td>2 Bedroom Double Occupancy Apartment Suite</td>
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<tr>
<td>(4 students to a suite, 600 students total)</td>
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</tr>
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<td>Front Desk</td>
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<tr>
<td>Mailboxes</td>
<td>50</td>
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<tr>
<td>Student Lounge</td>
<td>1,200</td>
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<tr>
<td>Student Affairs Office</td>
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<tr>
<td>Computer Lab</td>
<td>750</td>
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<td>Elderhostel</td>
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<td>Double occupancy bedroom w/personal bathroom</td>
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<td>Reception Desk</td>
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<tr>
<td>Program Director’s Office</td>
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<td>Staff Offices</td>
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<td>Housekeeping Room</td>
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Chapter 3: The Hudson Yards: Site Investigation

Location

Manhattan, an island sandwiched between the Hudson and East Rivers, is just one of the five boroughs—Brooklyn, Queens, Staten Island, and the Bronx—that comprise the city of New York. At the southeastern tip of New York state, it has a close relationship with New Jersey at its opposite shore across the Hudson.

Figure 5: National map. [http://geography.about.com/library/blank/usa3.jpg]
Figure 6: New York State vicinity map.
[http://www.empirestateroads.com/maps/cities.gif]

Figure 7: The five boroughs that comprise New York City--Manhattan, Brooklyn, Queens, Staten Island, and the Bronx.
[http://www.newyorkpass.com/locationsBoroughs.asp]
Figure 8: Hudson Yards site highlighted in yellow. [map courtesy of New York City Department of City Planning]

**Neighboring Communities and Districts**

Figure 9: Neighboring communities around John D. Caemmerer West Side Storage Yard Complex site in red. [map courtesy of New York City DCP]
As the cultural and commercial center of the city, Manhattan consists of a multitude of distinct and diverse neighborhoods. The surrounding neighborhoods are Hell's Kitchen to its northern edge, the Garment and Theater Districts to the east, and Chelsea on its southern edge. The boundary between Hell's Kitchen and Chelsea is unclear and several sources cite opposing views as to which neighborhood it the Hudson Yards belongs to.

Hell's Kitchen, also known as Clinton (in an attempt to clean up the neighborhood’s image in the 1960s) runs from West 30th to West 59th Streets and between the Hudson River and Eighth Avenue. It has had a long history characterized by poverty, street gangs and rows of slum tenements. An interesting mix of residential, industrial, and commercial uses has coexisted in this transitional neighborhood. Its diverse immigrant heritage has cultivated a strong culture of ethnic cuisine and the “hardships of the past have created a strong neighborhood community.” Every May, one of the city's biggest street fairs, the Ninth Avenue Association's International Food Festival, stretches through the Kitchen from 37th to 57th Streets along Ninth Avenue.

![Figure 10: Photograph of Hell's Kitchen. The area is a very mixed use neighborhood where residential, industrial, and commercial fabric coexist.](http://www.citidex.com/6078.htm)
Chelsea roughly stretches from West 15th to West 34th Street and is bounded by the Hudson River and Sixth Avenue. A former industrial area, Chelsea has been converted into a livable neighborhood comprised of walk-up tenements, apartment blocks, and warehouse lofts. A growing number of art galleries have moved there from SoHo making it the center of the city’s art scene⁹

The Theater District runs from south from West 53rd Street to West 34th Street. The east-west boundaries are roughly formed by Sixth and Eighth Avenues. The area is home to the "Great White Way", the brightly lit area of Broadway that runs past numerous theaters, such as the Neil Simon, Gershwin, and Winter Garden Theaters.

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The Garment District is bounded by West 42\textsuperscript{nd} Street to the north and West 29\textsuperscript{th} Street to the south. The east-west boundaries are Sixth and Ninth Avenues. Below West 34\textsuperscript{th} Street the Garment District overlaps with Chelsea. The area is full of wholesale fabric stores and remains the fashion capital for designers, couture houses and showrooms.
Site and Local Context Description

The Hudson Yards is more specifically known as the John D. Caemmerer West Side Storage Yard Complex and it encompasses 33 acres on the Far West Side along the West Side Highway and Hudson River. It is the storage area for the Long Island Rail Road (LIRR), an agency of New York State's Metropolitan Transportation Authority. The LIRR is the busiest commuter railroad in North America, carrying an average of 274,000 customers each weekday on 730 daily trains.\(^\text{10}\)

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\(^{10}\) MTA Long Island Rail Road. [http://www.lirr.org/lirr/pubs/aboutlirr.htm]
The site is bounded by West 30th and West 33rd Streets, the West Side Highway, and Ninth Avenue. In its current state it consists of approximately seven New York City blocks sunken below street grade and screened by thick, eight-foot tall, concrete walls. Tenth and Eleventh Avenues bridge across the site cutting it into
three substantial super blocks. Parts of the eastern most super block have been
decked over and developed, one being a commercial building spanning two blocks.
The surrounding blocks along the West Side Highway (9A) are characterized by bus
storage. There is a significant drop in elevation of ten feet from Tenth Avenue to the
waterfront.

Figure 16: View of Eleventh Avenue that bridges across train yard and
down West 34th Street toward Midtown. The entire perimeter of the train
yards is lined with walls. In the distance, the large commercial building that
stretches from 31st to 33rd Streets.

Figure 17: Topography of site. The site itself is sunken, but the land around slopes up
towards Midtown. [map courtesy of USGS]
Figure 18: Section cut through 32nd Street. Starting from Madison Square Garden down to the Hudson River, 32nd Street has been lost to superstructures and the train yards.

Figure 14: View down West 34th Street toward Hudson River. The walls enclosing the train yards are shown in the left of the photograph and the High Line stretches across the street to the adjacent parking lot. Notice the gradual slope down to the water.

Figure 20: View of corner of West 29th Street and West Side Highway. The blocks surrounding the site are used for private parking lots.
One prominent feature adjacent to the site is the Jacob K. Javits Convention Center, a superstructure spanning from West 34th to West 39th Streets between the West Side Highway and Eleventh Avenue.

Figure 21: View of Jacob Javits Center from West 34th Street. Notice the tall concrete walls lining the train yards and the unfriendly pedestrian environment.

Figure 22: View of small plaza along Eleventh Avenue fronting convention center. Note the lack of activity and landscaping.
Lastly, the High Line creates the edge of two sides of the site along West 30th Street and the West Side Highway. The High Line links the site with Chelsea and the Meat Packing Districts. Constructed between 1929-1934, this elevated rail line that runs for 1.45 miles from Gansevoort Street to 34th Street.

During the 1950s, interstate trucking lead to the decline of rail traffic and parts of it were dismantled in the 1960s. Twenty years later, train lines stopped running along the line and after the threat of demolition, it is now planned for conversion into an elevated park system\textsuperscript{11}.

\textbf{Figure 23:} The High Line crossing over West 30th Street.

\textbf{Figure 24:} Path of High Line through Meat Packing District and Chelsea. Note its termination around the train yards site. Its conversion into park space would give the site another means of access. [http: www.thehighline.org]

\textsuperscript{11} Friends of the High Line. [http://www.thehighline.org]
Figure 25: Figure ground diagram. Note the lack of defined edges to blocks and fragmented nature of fabric.

Figure 26: Figure ground reversal diagram. Note the solidity of blocks, defined street edges, and figural spaces east of 8th Avenue.
Figure 27: Walking radius starting at site extending out in 5 minute or ¼ mile intervals. The western and eastern rail yards are contained within a ¼ mile radius area.

Figure 28: Street hierarchy. The site is right along the West Side Highway and a block away from 34th Street, a major east-west collector street.
Figure 29: Existing zoning. The site is located within and around a primarily manufacturing zoned area. Residential zoning can be found in Chelsea with commercial zoning to the east and north of that. [NYC Dept. of City Planning. No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 4-3]
Figure 30: Existing land use. Due to its zoning, the site and surrounding areas are used for transportation functions. [NYC Dept. of City Planning. No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 4-4]
Figure 31: Various bus routes in the vicinity. Note the absence of a north-south route along Eleventh Avenue and east-west routes only exist every 8 or 12 street blocks. [NYC Dept. of City Planning, No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 20-3]
Figure 32: Various subway lines in the vicinity. Note the inconvenience of subway travel from site; the nearest subway lines (A, C, and E) are a little over 10 minutes away by foot. [NYC Dept. of City Planning, No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 20-2]
Figure 33: Location of W. 38th Street Ferry Terminal and bus routes originating from the terminal. [NYC Dept. of City Planning, No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 20-4]
Figure 34. Visual Resources map highlighting prominent visual landmarks that provide reference points. [NYC Dept. of City Planning. No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 11-15]
Figure 35: Residential uses and density. Due to current zoning, low density housing is scattered about the vicinity of the train yards. [http://www.manhattancb4.org/HKHY/docs/hsg%20and%20pop.pdf]

Figure 36. Residential units and population by block. [http://www.manhattancb4.org/HKHY/docs/hsg%20and%20pop.pdf]
Chapter 4: Analysis of the Department of City Planning’s Master Plan

Recently, the DCP put forth a comprehensive master plan striving to transform the site into an area comparable to Midtown with densities much greater than those of the surrounding context. In general, the plan proposes to deck over the train yards and develop this newly created land. In order to attract private development into the area, the plan proposes the following: extend subway service to the site, establish an open space network, zone for higher densities and new uses, and create a Convention Corridor (through convention center expansion and multi-
purpose sports facility, better known as the Jets Stadium). The DCP is envisioning a place where New Yorkers and tourists will want to live, work, play and visit\textsuperscript{12}.

\textit{Four Key Actions & Critique}

1. Extend subway service

The extension of the No. 7 Subway line would increase access that is, at present, lacking in the area. The No. 7 line already runs through Queens—one of the most diverse counties in the country—underneath the East River, across 42\textsuperscript{nd} Street which travels through Midtown, and now would run down Eleventh Avenue to the Hudson Yards.

![Figure 38: Extension of the No. 7 Subway line would bring further access from Queens into the site. [NYC Dept. of City Planning, No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 2-18]](http://www.nyc.gov/html/dcp/html/hyards/hymain.shtml)
2. Establish a new open space network

The proposed open space network uses the unbuilt gaps in the neighborhood created by transportation infrastructure. It creates a mid-block green network that is dissected by seven streets, one of them being a major east-west collector street, 34th Street. At the terminus of this network is a larger three-block long green space with the Jets Stadium creating a major barrier blocking all views to the water. One interesting aspect of the stadium and the green space to the north is how it bridges across the highway to connect down to the Hudson River Park and the new ferry terminal.

Figure 39: The current master plan proposes a mid-block open space network with no direct relationship to the Hudson River or riverfront park. Notice the fragmented nature of the midblock open spaces and the amount of open space needed around the stadium to handle large crowds. [map courtesy of NYC Dept. of City Planning]
3. Zone for appropriate densities and uses

The new zoning will bring increased development into the area that has been historically zoned for transportation and manufacturing uses. The main core of Hell’s Kitchen to the east of the convention center would be preserved with its low-density residential fabric and then jumps to taller structures along the convention center and the eastern train yards.

Figure 40: Proposed rezoning of the Hudson Yards and surrounding areas. East of Eleventh Avenue and north of the convention center, the area changes from Manufacturing to Commercial uses. [NYC Dept. of City Planning. No. 7 Subway Extension-Hudson Yards Rezoning and Development Program, Figure 2-4]

40
Figure 41: Proposed land use. Notice the majority of the commercial area along Eleventh Avenue further blocking views of the water to the residential fabric to the east. [NYC Dept. of City Planning Master Plan, Graphical Zoning Presentation. http://www.nyc.gov/html/dcp/pdf/hyards/hy_zoning_012005.pdf]

Figure 42: Proposed density in terms of base FAR. Note, the commercial area has the greatest FAR giving them exclusive views to the waterfront. [NYC Dept. of City Planning Master Plan, Graphical Zoning Presentation. http://www.nyc.gov/html/dcp/pdf/hyards/hy_zoning_012005.pdf]

Figure 44: Mechanisms to increase FAR through bonuses. [NYC Dept. of City Planning Master Plan, Graphical Zoning Presentation. http://www.nyc.gov/html/dcp/pdf/hyards/hy_zoning_012005.pdf]
Create a Convention Corridor

The expansion of the Javits Convention Center is a major component to the master plan. As of now, the center is ranked at 18 out of the top 20 convention centers in the United States with approximately 800,000 square feet of exhibit space. The number one ranked convention center is in Chicago with a little over 2 million square feet and plans for expansion to 2.8 million square feet\textsuperscript{13}.

\textsuperscript{13} NYC Dept. of City Planning. \textit{No. 7 Subway Extension-Hudson Yards Rezoning and Development Program}, Figure 1-5
The Jets Stadium would be used by the convention center when no football games were scheduled making it a multi-purpose sports facility. This stadium was also part of the city’s bid to host the 2012 Olympics, which was recently lost to London. Much outcry was made by Hell’s Kitchen residents and various organizations over who would pay for the stadium and if it truly belonged on the Far West Side. Presently, the Jets have decided to move their stadium adjacent to the Giants Stadium in the Meadowlands, New Jersey. So what should be done with the stadium lot and blocks around it?

Figure 46: The current master plan does nothing to break up the super blocks of the train yards and proposes to further block views of the water. [map courtesy of NYC Dept. of City Planning]
Chapter 5: Neighborhood Identity through Urban Green Space

*Why does it need an identity? How will it get it?*

According to the Regional Plan Association, one of the major problems the Hudson Yards faces is its lack of image. Neighborhood investment advocates understand the influence of “branding” which sponsored memorable acronyms such as SoHo (South of Houston) and Dumbo (Down Under the Manhattan Bridge Overpass). “These advocates try to exploit the interest that people have in places with a distinct and unique identity.”

As of now, the Hudson Yards’ image is stained by the negative association with Hell’s Kitchen. The only identifiable landmarks that could start to give an identity to the area are “over-sized, architecturally undistinguished, pedestrian-unfriendly structures,” the Port Authority Bus Terminal and the Jacob Javits Convention Center.

Now with the relocation of the Jets Stadium, this thesis proposes to reconfigure the planned open space network into a unified green space with connections to the Hudson River Park that will help shape the identity of the impending neighborhood.

15 Ibid., p.8
Urban Precedents

Bryant Park, New York City

Figure 47: Aerial photograph showing Bryant Park and the New York Public Library over two city blocks. The library holds the entire eastern end of the double block and functions in two ways. First, it works as an object building because it is different in character and height than the surrounding buildings. Second, it is a contextual building in terms of urban siting strategy because it holds the edges of the block. [Image courtesy of Google Earth]

Figure 48: Site plan of Bryant Park with New York Public Library holding eastern portion of site. Note that the library and site take up two Manhattan blocks. [Thompson, William. The Rebirth of New York City’s Bryant Park]
Figure 49: Images illustrating the multitude of programs within Bryant Park. Clockwise from upper left: outdoor café, the lawn, grove of trees, vending pavilion. [Images from The Birth of New York City’s Bryant Park]
Venice, Italy

Figure 50: Aerial view of the main civic piazza, Piazza San Marco, in Venice. Note the L-shape of the piazza connecting the city to the water. [Image courtesy of Google Earth]

Figure 51: View toward canal from piazza. Note the use of the columns to focus the view and hold the edge of the space. [Image courtesy of http://www.guideofvenice.com/immagini/piazza_san_marco_1big.JPG]
Chapter 6: Design Strategies

_Urban Design Goals_

- Re-weave the Hudson Yards back into the surrounding city fabric
- Create an identifiable neighborhood centered around a public green space
- Encourage mixed-use development
- Fully implement the High Line into design
- Create connections between the various green spaces
Site Interventions

Site Strategy – Scaled Overlays

Figure 52: Site strategy showing an example of a successful waterfront space, Piazza San Marco [Image of San Marco courtesy of Google Earth]

Figure 53: Site Strategy showing Bryant Park, a two-block open space over the train yards opening out to the water. [Image of Bryant Park courtesy of Google Earth]
Figure 54: Site strategy showing Madison Square Park rotated over the train yards on three blocks opening out to the water. [Image of Madison Square Park courtesy of Google Earth]

Figure 55: Site strategy showing Washington Square Park rotated over the train yards on four blocks opening out to the water. [Image of Washington Square Park courtesy of Google Earth]
**Single Block Open Space Partis**

**Figure 56:** Fabric Building Parti A. Building defines edge of the park which looks down over waterfront.

**Figure 57:** Fabric Building Parti B. Building has a more contextual strategy with less focus on front facade and anchors corner of block.
Figure 58: Figural Object Building Parti A. Building encloses the space cutting off direct views to the water and has opportunities to connect to High Line.

Figure 59: Figural Object Building Parti B. Object building sitting within the park mediating between two varied open spaces, landscape and hardscape. The building has an opportunity to show two types of facades, a freer garden facade versus a more civic facade.
Double Block Open Space Partis

Figure 60: Bryant Park Parti. Object building holds edge of park lining Eleventh Avenue.

Figure 61: Hybrid Building Parti. Hybrid of programs stacked into one building.

Figure 62: Urban Campus Parti. Series of buildings filling two city blocks creating internal open spaces that relate to the park.
Figure 63: Linear Block Parti A. Program stretched along entire block with back against convention center.

Figure 64: Linear Block Parti B. Program stretched along entire block using the High Line.
Building Design Goals

- Combine community and institutional functions together
- Develop interior and exterior gathering spaces to generate informal student and faculty interaction
- Develop formal and informal performance spaces for scheduled and impromptu performance
- Give regularly occupied spaces access to light, air, and views
- Extend building program out to park
Schematic Building Partis

Figure 65: Linear building schematic plan and single block open space.

Figure 66: Diagrammatic section of linear building parti and single block open space.

Figure 67: Axonometric diagram of linear building parti
Figure 68: Linear building schematic plan incorporating High Line with double block open space.

Figure 69: Schematic section of linear building

Figure 70: Axonometric diagram of linear building parti
Baruch College, New York City  
The “vertical campus”\textsuperscript{16}

\textbf{Figure 71:} Section of Baruch College illustrating the way light comes into the building through linked diagonal atria. [Image courtesy of \textit{Architecture}]

\textbf{Figure 72:} Ground floor plan with lobby and diagonal interior streets bringing students in from three sides of the building. [Image courtesy of \textit{Architecture}]

\textbf{Figure 73:} Aerial view of Baruch College within its context around lower Lexington Avenue. ["The Vertical Campus." \textit{Architecture} Vol. 91 No. 10 (Oct. 2002) 65.]

\textbf{Figure 74:} Interior photograph of organizing atrium. [Image courtesy of http://www.kpf.com/main.asp]

Figure 75: Hybrid building schematic plan and double block open space

Figure 76: Schematic section of hybrid building parti

Figure 77: Axonometric diagram of hybrid building parti
Schiller Building, Chicago Illinois

Adler and Sullivan 1892

The “fabric hybrid” example

Figure 78: Stacking of five different programs in Schiller Building. [Pamphlet Architecture, 14]

Figure 79: Section through Schiller Building showing the auditorium buried deep within the building [Pamphlet Architecture, 15]

Figure 80: Exterior view of Schiller Building. [Image courtesy of http://tigger.uic.edu/depts/ahaa/imagebase/intranet/slide_scans/Schiller_Building/Schiller_Building05.jpg]

Figure 81: Plan of Schiller Building. The center entry lobby is flanked by retail activating the street. [Pamphlet Architecture, 15]

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Figure 82: Object building schematic plan and double block open space

Figure 83: Schematic section of object building

Figure 84: Axonometric diagram of object building parti
Chapter 7: Design Conclusions

The Master Plan Revisited

The final master plan explores an internalized park scheme where the park is bounded between Ninth and Tenth Avenues, West 33rd Street to the north, and West 31st Street to the south. Similar in scale to Bryant Park, the park is fronted to the east by two large tower buildings with the center axis opening to the old Farley Post Office. This old Beaux-Arts building will become the new Penn Station above ground bringing regional visitors from out of state to the newly developed park. The No. 7 subway line is extended down Eleventh Avenue bringing local New Yorkers to the site. An important aspect of the master plan is the reuse of the High Line as an elevated linear park system. The civic park acts as an identifiable center for the new commercial and residential uses that have been planned for the new neighborhood. This thesis proposes a multicultural folk arts college to bridge between the High Line and civic park.
Figure 85: Existing urban condition (above) and revised urban intervention (below). Note the internalized civic park and remapped streets that were previously lost to the train yards. The master plan fills in the fragments of the existing urban fabric. The building acts as a mediator between the linear High Line park and the new civic park.
Figure 86: Proposed land use plan. Note the increased amount of commercial and residential uses as opposed to the previous transportation and industrial uses.

Figure 87: Increased public transportation opportunities around the park. Note the newly extended No. 7 train line, relocation of Penn Station, and relocation of the ferry terminal.
Figure 88: Aerial perspective of urban intervention. [Aerial perspective courtesy of Google Earth]
The New York School of Cultural Exchange

The New York School of Cultural Exchange is sited along Tenth Avenue between West 30th and West 31st Streets. It gives purpose to the northeastern spur of the High Line and establishes it as the ground plane for the new school at +23’10” above the street level. The corner entry lobby is situated at the southwestern corner of the civic park and takes students and visitors from the street up to the High Line level. A performance alley was designed adjacent to the western portion of the building to provide a public passage between the street and High Line.

The school is organized as a vertical campus. Whereas a suburban campus is organized around an outdoor commons space, the school adopts a similar notion of identity through a vertical atrium space that unites the various programs into a cohesive whole. All of the public functions—the performance spaces, art gallery, café, and library—are easily accessed from either the ground floor entry lobby or the Commons (atrium).

The Commons is based on the concept of a tree. The main trunk runs vertically linking all the programs and the branches create smaller identifiable sub-atrium spaces to organize the various departments – dance pod, art pod, and music pod. All the pods open up into the Commons and allows for different lighting conditions to enter the space at various times of the day.

The housing component consists of the Elderhostel and student residences. The Elderhostel completes the courtyard around the commons to the south over the High Line. Stacked above, starting at Level Eight, are the student residences and student services, such as the Dining Hall.
Figure 89: Building organization diagrams.
Figure 90: Stacking diagrams illustrating the student housing, Elderhostel, and Music Pod.
Figure 91: Stacking diagram illustrating the Art and Dance Pods.
Figure 92: Stacking diagram illustrating the public functions of the school (classrooms, library, performance spaces, and art gallery).
Figure 93: Ground floor plan illustrating corner entrance lobby with civic park to the northeast.
Figure 94: Commons level (+1) which opens out to High Line spur.
Figure 95: Section cut through Commons and Art Pod looking east.
Figure 96: Section cut through Commons and Music and Dance Pods.

Figure 97: Section from Figure 95 with color coding.

Figure 98: Section from Figure 96 with color coding.
Figure 99: Section through escalator from main lobby to High Line with color coding.

Figure 100: Section through grand staircase leading from main lobby to Proscenium Theater with color coding.

Figure 101: Section through Commons, Music Pod, and Proscenium Theater lobby with color coding.

Figure 102: Section illustrating stacking of Concert Hall, Recital Hall, Black Box Theater, and Music Pod with color coding.
Figure 105: View of school from the civic park.

Figure 104: View of housing towers from the High Line to the south.
Figure 105: View towards school loggia along High Line.

Figure 106: View down High Line towards outdoor stage.

Figure 107: View of performance alley adjacent to Black Box Theater. This open space provides a public exterior procession up to the High Line.
Figure 108: View of main entrance lobby with escalators leading to High Line/Commons level.

Figure 109: View of Commons.
Bibliography


