Roger Williams University DOCS@RWU

Architecture Theses

School of Architecture, Art, and Historic Preservation Theses and Projects

2014

Logothium: Reunification and Improvement of the Community through Logos

Karin J. Hirose Roger Williams University, khirose449@g.rwu.edu

Follow this and additional works at: http://docs.rwu.edu/archthese



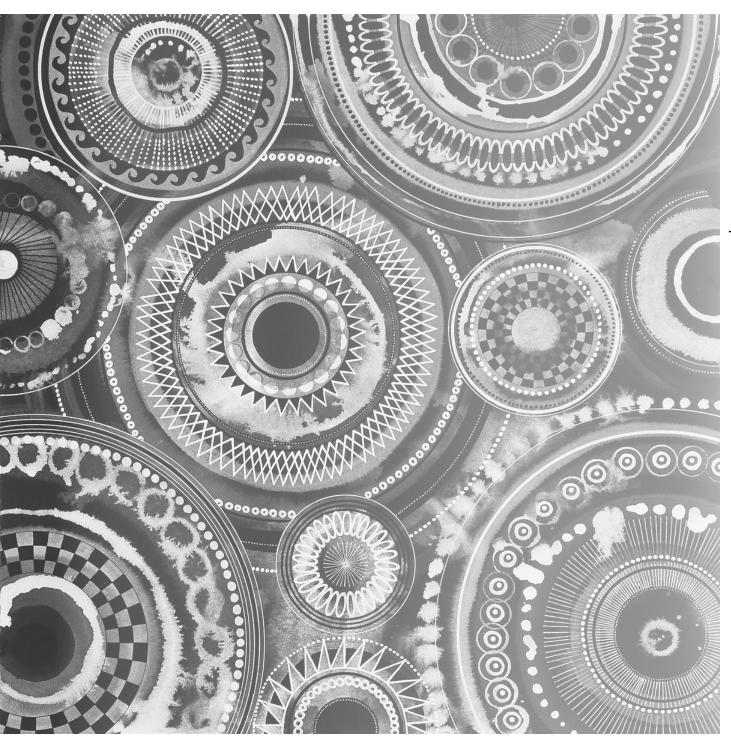
Part of the <u>Architecture Commons</u>

Recommended Citation

Hirose, Karin J., "Logothium: Reunification and Improvement of the Community through Logos" (2014). Architecture Theses. Paper

http://docs.rwu.edu/archthese/98

This Thesis is brought to you for free and open access by the School of Architecture, Art, and Historic Preservation Theses and Projects at DOCS@RWU. It has been accepted for inclusion in Architecture Theses by an authorized administrator of DOCS@RWU. For more information, please contact mwu@rwu.edu.



Logothium

-Reunification and improvement of the community through logos-

> 1300 Fairmount Ave, Philadelphia, PA.

Logothium

-Reunification and improvement of the community through logos-

Karin J Hirose

Thesis project submitted to Roger Williams University, School of Architecture, Art, & Historic Preservation in fullfillment of the requirements of the M. Arch Degree in Architecture

December 2014

Signiture:		Date:	
	Karin J Hirose Class of 2014		
Signiture:	Stephen White, AIA Dean, SAAHP	Date:	
Signiture:	Andrew Cohen Thesis Advisor, SAAHP	Date:	

Abstract

The proposal for this project is to create a branch library and a branch collage in city center Philadelphia that offers the possibility to reunification and improvement of a community.

The project is going to take place at 1300 Fairmount Ave, Popular, Philadelphia, PA., that currently is a vacant lot and it is adjacent to the Fairmount subway station and the Devine Lorraine Hotel. While the chosen site, nearby lots and some adjacent properties are a vacant or abandoned, or consists of public housings. The area is anticipating a major rehabilitation projects that create groundwork for a successful urban fabric that reinforces the urban pedestrian bond from the city center to lower North Philadelphia. The project accommodates proposed revitalization plans and it takes account of future need and change in the area with its program, use and design.

By providing academic and cultural opportunity, the project will reconnect area with local communities and beyond. Also it is anticipated to function as a cultural incubator of the area for general improvement of the life standard of current and future generations. As representation of broad cultural activities held within the project, the word "Logos" is employed.

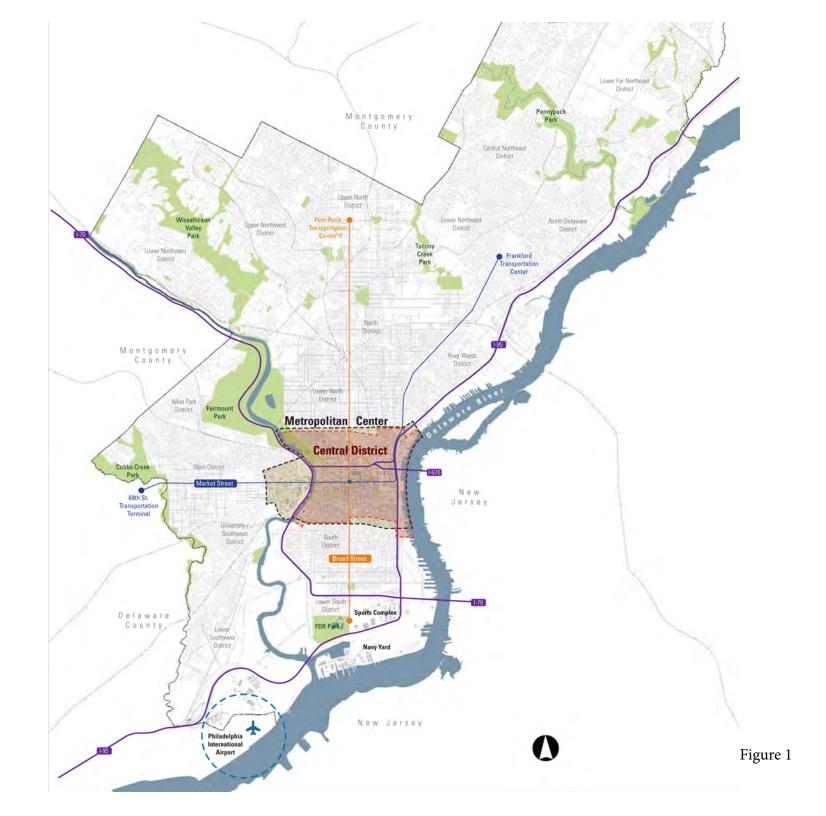
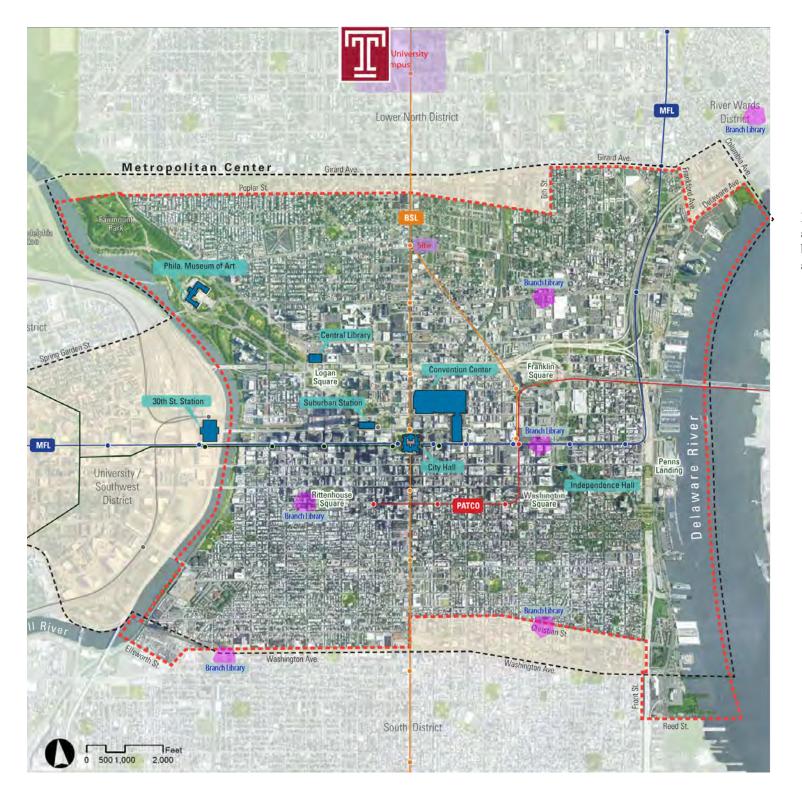


Table of Contents

Introduction & Problem Statement	1
Project Statement	3
Architectural Intention	5
Architectural Precedents	6
Children's library Discovery Center, Jamaica, NY, USA.	6
Jasper Palve branch library, Edmonton, AB, Canada.	14
Site Information	22
About Philadelphia	23
About Climate of Philadelphia	27
Project Site	28
Zoning and Use	33
Program Outline	35
Building Life Expectancy	37
Graphical Annotation	38
Note	39
Design Documentation	41
Design Development	43
Final Design	57
Plan, Elevation, Section	79
General Views	93
Bibliography	106



Purple pentagons are locations of branch library acress the city

Figure 2

Introduction and Problem Statement

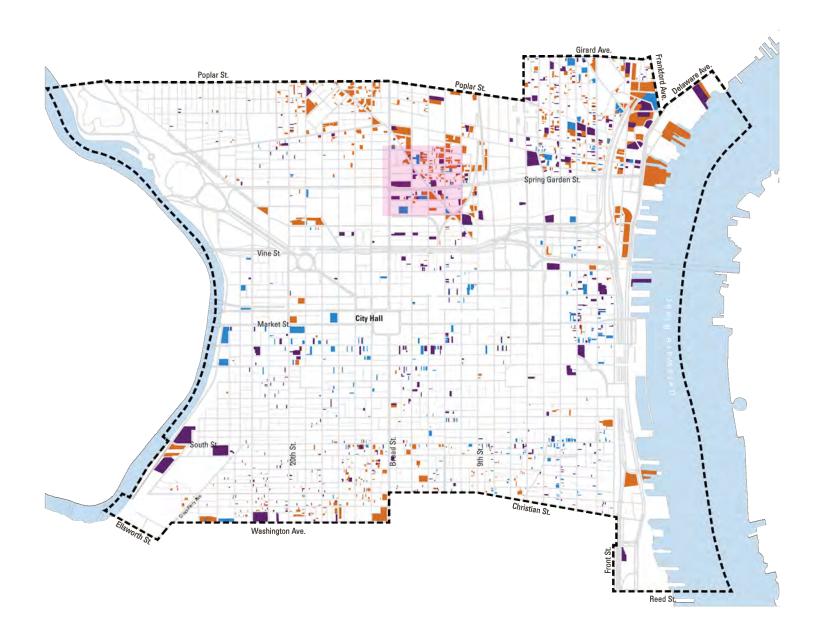
The city of Philadelphia used to have trouble with abandoned urban properties in the 80s and now it struggles with urban vacancy. The City of Philadelphia, department of License and Inspections, started a vacant property strategy in April 2011 after realizing that over 25,000 structures were vacant across the city. There are over 40,000 vacant lots, and over 12,000 lots are publically owned. There are over 100,000 tax delinquent properties, and delinquency is approximately 10% of their taxable real estate. Vacancy and abandonment is a considerable problem in the city from a safety as well as a financial aspect.

The situation has been improving ever since, yet it is in an unacceptable condition. Especially in the city center area where the appropriate level of density is required as urban fabric. The site of the project is located where the last of the vacant lots exist in the urban area. It is half way to Temple University campus area and further North of the city along North Broad Street, which runs from the heart of the city, City Hall. Aside from Main Street that runs by the site, there are existing subway and bus stations right by the property as well. The site has great potential for further development from both an accessibility and economic stand point.

Due to its great potential in economic and accessibility, the focused revitalization plan for the area is proposed for city master plan of 2035.⁴ The site is surrounded by public housing, some of which are private dwellings under a low-income house ownership program by Philadelphia Housing Authority. The site already has a subway station adjacent to it, so it has great accessibility from anywhere in the city. From the private sector, the rehabilitation of the Devine Loraine Hotel and nearby properties are proposed by developer Eric Blumenfeld.⁵ The Lorraine adjacencies to the proposed site and the Lorraine are historically and culturally significant property to the area. Considering all the near future plans, and existing infrastructure, the area around the site has great potential. It's accessibility, history, culture, and future economic development creates proper groundwork for a successful location.

About 1 mile north of the site is the Temple University campus that technically belongs to Northern Philadelphia. The project is a great opportunity to work as an incubator to create academic environment to connect North Philadelphia and the city center. Also, the area is surrounded by urban residential and commercial mixed use properties which raises the need for cultural opportunity in the area.

While the Free Library of Philadelphia have library branches across the city, there are none of on the North west side of the city center. Having a library branch of the Free library of Philadelphia for the site will fulfill the need of the local community. Offering this service to the local residents, and academic community would attract a different crowd throughout different times of the day and week. This also reinforces the urban pedestrian bond from the city center to lower North Philadelphia. Having a Temple University campus branch and a Public Library for the site will create great opportunities for a mixed use project for both academic institutions and the local community.



Vacant Land and Structures

Vacant Land - Land with no development or active uses (such as parking lots)

Partially Vacant Building

Fully Vacant Building

^{*} Vacancy recorded as part of the land use survey completed in the summer of 2012 by PCPC staff

Project Statement

The logos

λόγος. The logos represents most of the cultural activities related to the words in Ancient Greek. Originally a word meaning "a ground", "a plea", "an opinion", "an expectation", "word," "speech," "account," "reason," it became a technical term in philosophy, over time. Nowadays it is an important term in philosophy, psychology, rhetoric, and religion. In Judeo-Christian culture, the word become representation of the god.

The project is driven by the logos and logos is going to be the new characteristic of the area.

As the resolution to the problem of the site, the project is an urban mix use building with a Temple University city center campus branch and a Free Library of Philadelphia branch that serves the lower North, and Northwest of the city. The project is going to take place at 1300 Fairmount Ave, Popular, Philadelphia, PA., that currently is a vacant lot and it is adjacent to the Fairmount subway station and the Devine Lorraine Hotel. While the chosen site, nearby lots and some adjacent properties area vacant or abandoned, the area is anticipating a major rehabilitation project that creates groundwork for a successful site.

The Devine Lorraine Hotel, a currently abandoned property is anticipating rehabilitation in near future. It represents the logos in Judeo-Christin term associated with its historic use. On the other hand, the project, new academic and cultural mixed use building, is going to represent the logos in academic term. Within the new building, logos is going to be represented differently and with qualities depending on use. For the academic community, it is going to provide an institutional space for "Logos". It will be defined by Aristotle, reasoned discourse that is associated with organizational nature. For the local community, it is going to provide a cultural space for "Logos". It will be defined by Heraclitus, which means 'reason' or 'explanation' in the sense of an objective cosmic law to 'saying' or 'wisdom' that is more basic and broad definition and represents content of the knowledge provided to the user.



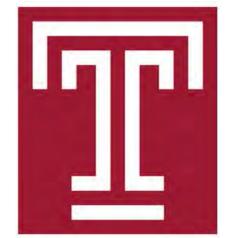


Figure 5

Throughout A weekday

During early morning time to early afternoon parent with toddlers and elderly from near by assisted living facilities come in. Some read books to kids, while some kids watches movies or play with interactive software with supervision of their parent.

During this time of the day several groups of the Temple University student for the day classes come in for their classes and spend time before and after classes at the library lounge. Some checks out the latest novels or movies, while some works on their homework with library's digital collections.

By the after noon, after school teens from neighborhood hangs out and work on their school projects or spent their leisure with library multimedia.

Around this time of the day some early after work adults uses comes out from near by subway station and some comes in for traditional library services, or to stream the novels or movies for the night. Some goes night classes for the university section of the building for continuing education. Some achieving teens attend night classes for university credits for future.

By evening, only adults after their work come in for library services or night classes. Occasional carrier advisement is going to be held during this time of the day in library section as well. v

Throughout its Life

For the first twenty years of the operation, the buildings serves for local community and academic institution inside as originally intended and organizations matures as local community matures with redeveloped iconic building on side.

By the time of the twenty years of the operation, the environment is going to be more commercial oriented and active following the characteristic of changed zoning circulation by the site from master plan of the city.

By the time of the thirty years of the operation, some of the original single family dwellings would be gone, due to the increase in the market value of the area and change of the environment to the busy urban space. There would be lesser need of the cultural facility and more need of the commercial and mixed use property. The building would to reach its first need of rennovation as well. Remove library with rennovation and put street level commercial could be adopitve way to maintain the building.

Themes/Architectural Intention

- 1. Raise presence of "Logos" in the life of users
- 2. Interactive urban campus and libary for local communities for future need
- 3. Reinforce pedestrian friendly environment for reconnecting area to surrounding community
- 4. Library as cultural spaces for gathering that is friendly to variety of generations

Client & Users

The Free Library of Philadelphia and Temple University is going to occupy the building. The user of the Library would be Philadelphia citizens, primarily residents of the Popular and Fairmount area, and the Fairmount subway station users. While university branch is dedicated to Temple university students and include students for continuing education classes, the library space for general public.

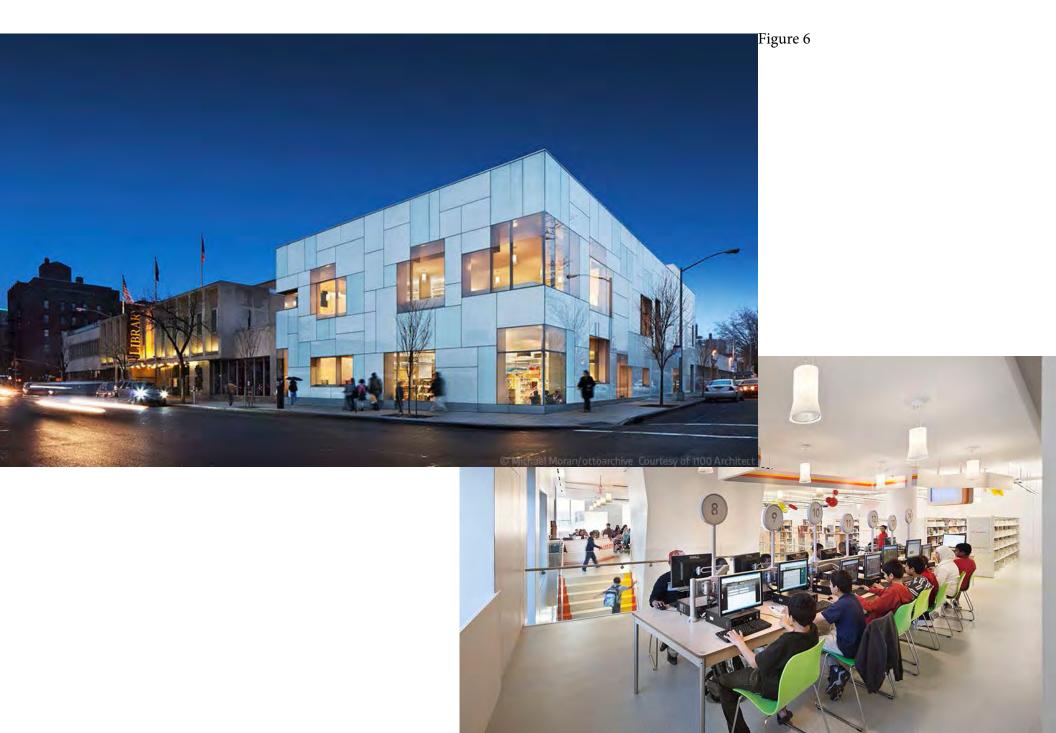


Figure 7

Children's Library Discovery Center

Architects: 1100 Architect Location: Jamaica, NY, USA

Project Year: 2011

Total Area: approx. 30,000 sq. ft. (2 story high)

The project is an addition to original building, and a part of master plan for the renovation and modernization of the 275,000 sq. ft Queens Central Library.

The glass façade is employed to integrate surrounding community and increasing the library's visibility. It is the attempt of reintroducing library as central cultural and social destination. Taking advantage of its exposure to the street, it tires to create a dialogue between the interior and exterior.



Figure 8

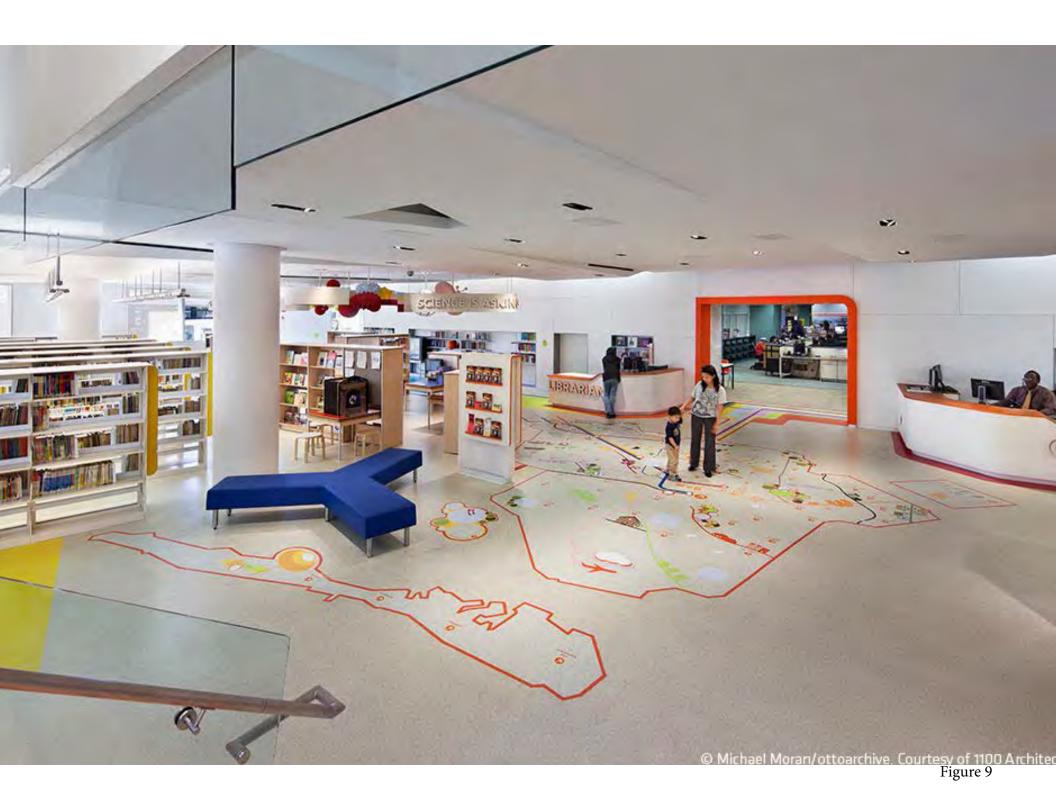


Figure 10



Figure 11

FIRST FLOOR PLAN



- 1 ENTRANCE FROM CENTRAL LIBRARY
- 2 MAP OF QUEENS
- 3 EXHIBITS
- 4 LIBRARY SHELVES

- 5 EARLY CHILDHOOD AREA
- 6 READING AREA
- 7 RESTROOMS
- 8 STAIR / ELEVATOR

© 1100 Architect

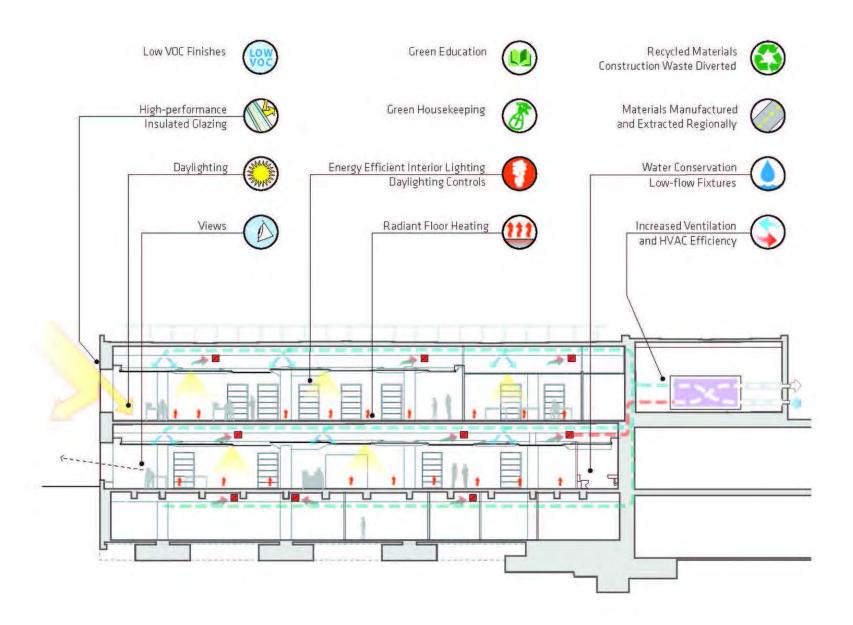
SECOND FLOOR PLAN



- 1 CYBER CENTER
- 2 LIBRARY SHELVES
- **3 READING LOUNGE**
- 4 READING AREA

- 5 MULTIPURPOSE ROOM
- 6 OFFICES
- 7 RESTROOMS
- 8 STAIR / ELEVATOR REDUCTION STRATEGIES

© 1100 Architect



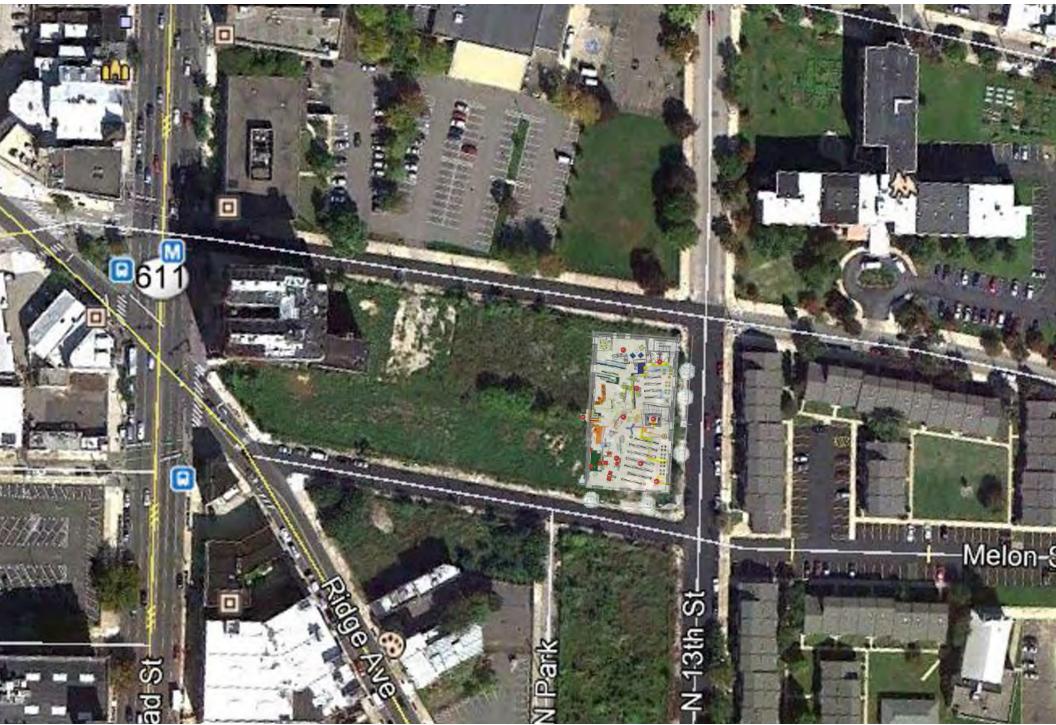


Figure 16



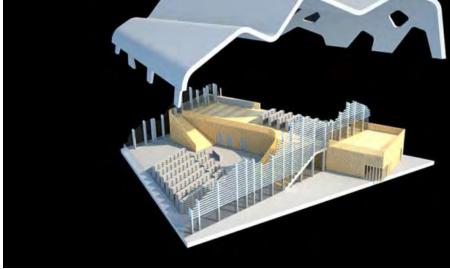


Figure 18

JasperPlave Branch Library

Architects: HCMA/Dub Architects Location: Edmonton, AB, Canada

Year: 2012

Total Area: 1400.0 sq.m (approx. 15,000 sq.ft.)

The project replaces the original library and new library is about creating an open and memorable presence in the community. The sustainable design was required to fulfill present and future library needs and uses.

The new library is twice in area to the library it replaced, however the number of items in the collection is reduced due to a variety of factors including e-books and the access to online information.

The focus of project shifts from maximizing collection to maximizing the potential for social space.



Figure 19

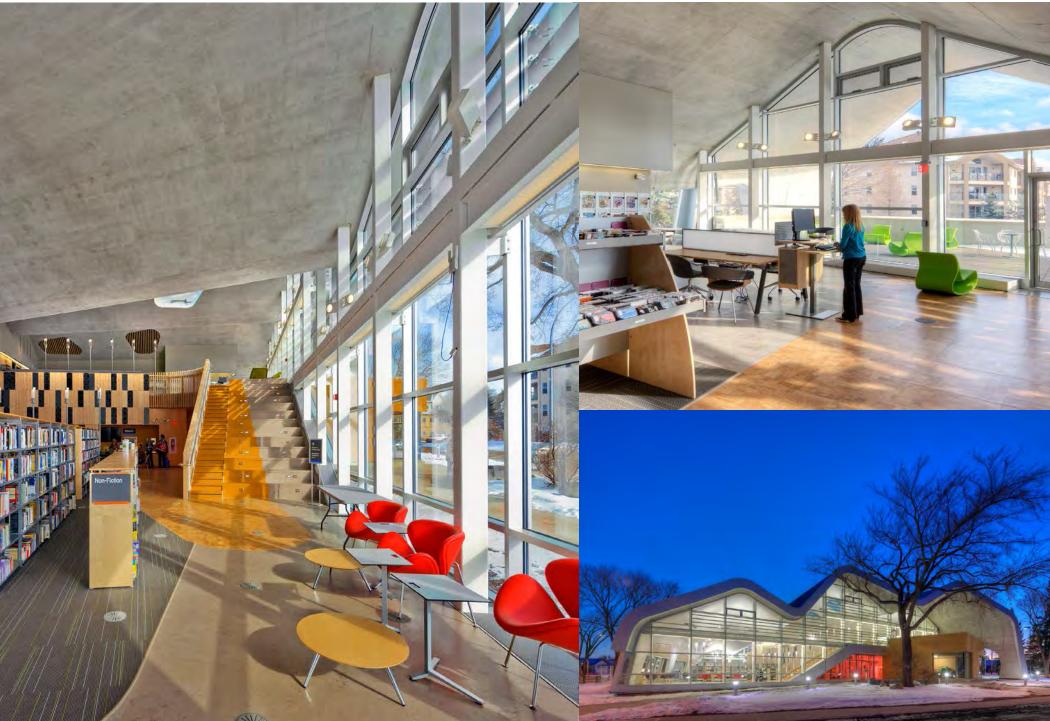


Figure 20 Figure 22

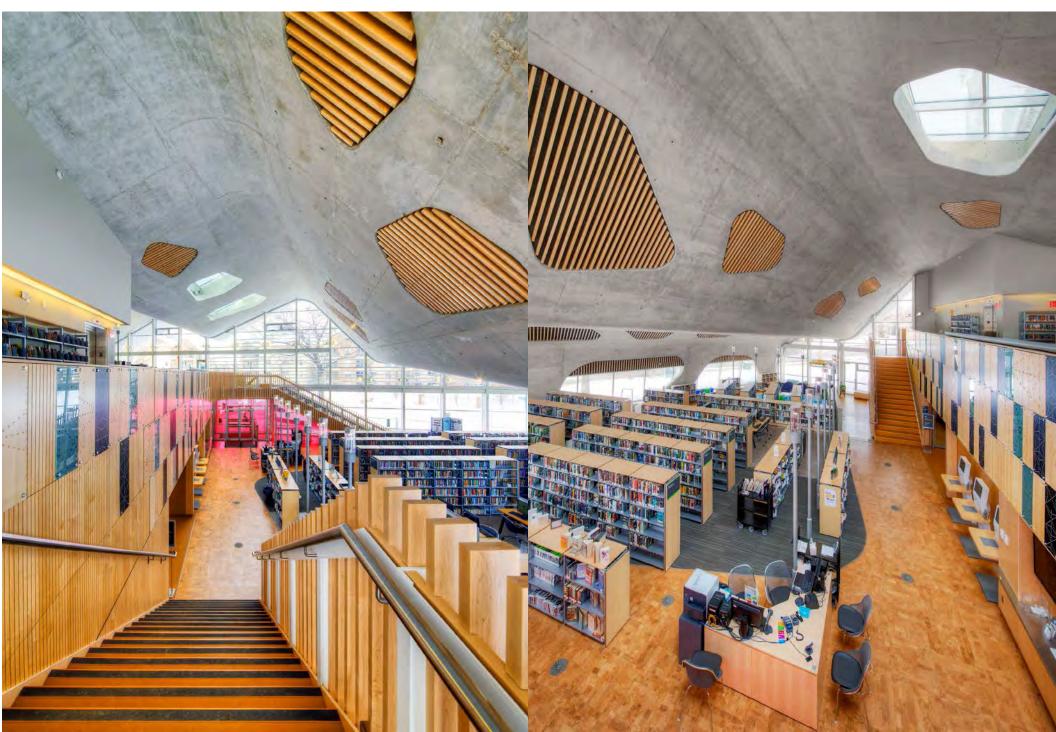


Figure 24



Figure 25

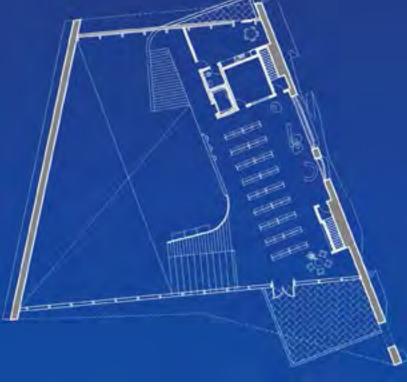
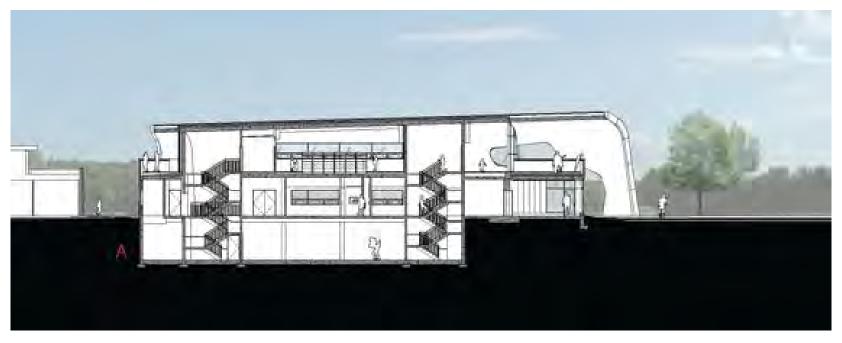


Figure 26

Figure 27



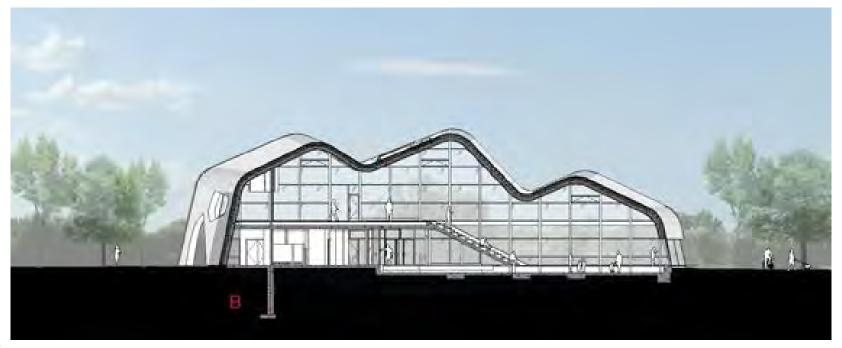


Figure 28

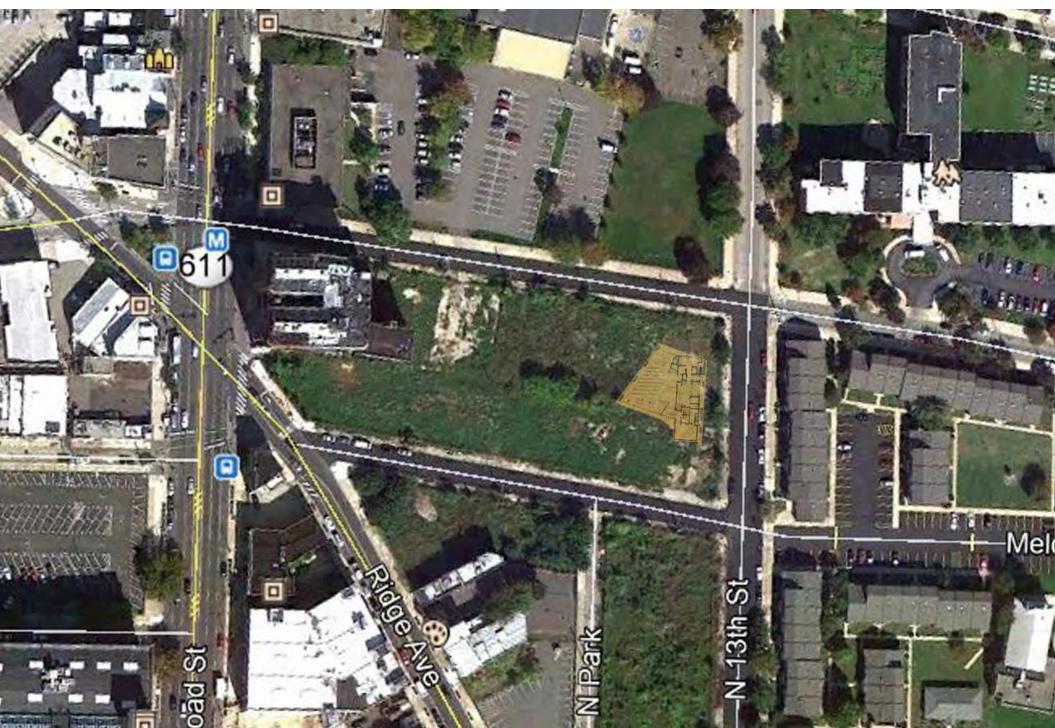


Figure 29

The library is going thorough social change from technological renovation as pointed out by Michael Stephens on ALA TechSource "Liebrary 2.0 will be a meeting place, online or in physical world, where need will be fulfilled through entertainment, information, and ability to create in stuff to contribute to the ocean of content out there."

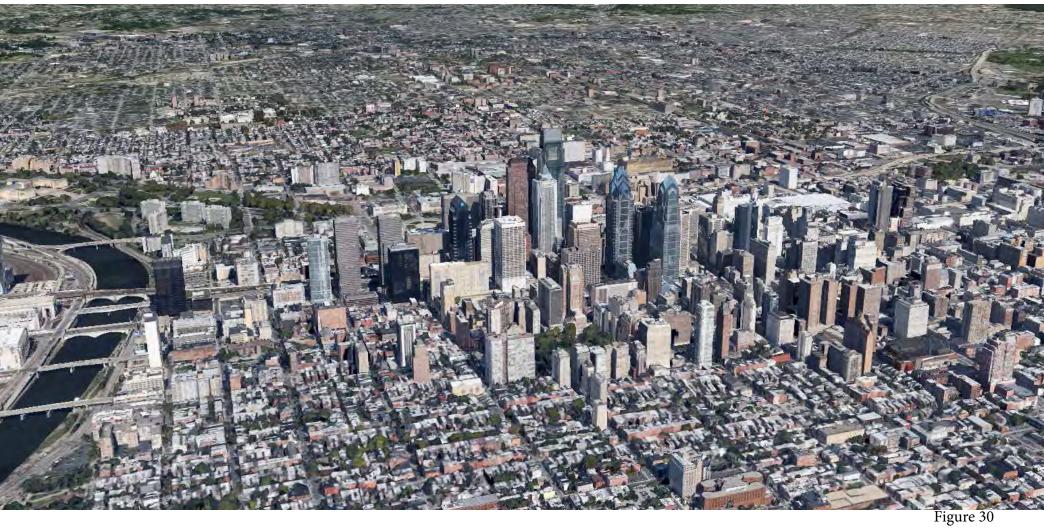
The project Logothium is going to be a branch library run by city library for urban residential neighborhood, adjacent to major streets and served as cultural space for reunification of the community. As part of the president analysis, two libraries were chosen from North America. One is Children's Library Discovery Center, Queens, NY, USA., and Jasper Place Branch Library, Edmonton, AB, Canada. Whereas they locate different country, both locate adjacent to the residential neighborhood, major streets of their municipalities, similar in scale with project Lugothium and run by local municipal library organization. More importantly they shares the same objective; making library that accommodates ongoing changes within the field, serves as cultural spaces for community, for future.

However they do served their community in different manner. While Discovery Center is programmed to accommodate kid age of 3-12, Jasper library is programmed to accommodate all ages of the community.

At Discovery Center the natural science exhibition is accommodated to improve interactivity and learning experience, which is considerate decision based on interest of the user age group. It serves as educational facility to the community. Architecturally, transparency and visibility is employed for creating connectivity between the library and community. The glass is chosen as façade material to integrate surrounding community while distinguish itself from traditional library building adjacent to the Discovery Center. This separation and transparency represented with the material is attempt of reintroducing library as central cultural and social destination. The building also takes advantage of its exposure to the streets in order to create a visual dialogue between the interior and the street.

On the other hand, Jasper library, is focusing on serving community in different manner. They serves as combination of library and community center and monolithic shell that covers two different geometry represent unification of community space and library. Aside from architecturally celebrated community spaces with projected geometry, the community space is mean to serve for community after library hours. It also actively corporate with private and public local primary to high school, and the library systems were integrated with school system.

Site Information



About Philadelphia 39°57'12"N, 75°10'12"W

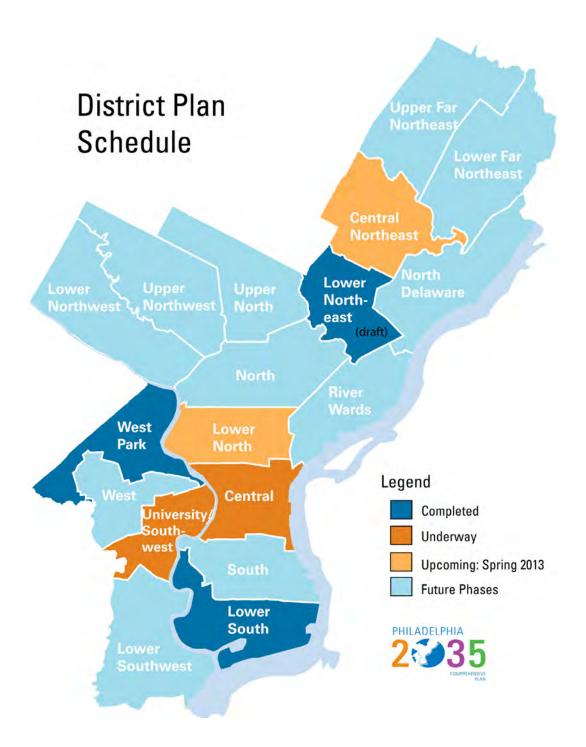
Philadelphia is the largest city in the Commonwealth of Pennsylvania, the second largest city on the East Coast of the United States, and the fifth-most-populous city in the United States. It is located in the Northeast-ern United States along the Delaware and Schuylkill rivers. As of the 2010 Census, the city had a population of 1,526,006, growing to 1,547,607 in 2012 by Census estimates. The Philadelphia is growing community and according to The Citywide Vision a forecast for population and employment in 2035 of an additional 100,000 people and 40,000 jobs.

The city encompasses 142.6 square miles of which 135.1 square miles is land and 7.6 square miles is water. Bodies of water is mostly from Delaware and Schuylkill Rivers. Also Philadelphia sits on the fall line that separates the Atlantic Coastal plain. The lowest point is 10 feet above sea level, while the highest point is in Chestnut Hill, about 445 feet above sea level.

The city is divided into 18 districts by Philadelphia City Planning Commission and the site locates at Popular, the north of Center city district between lower North Philadelphia district where is exactly one mile away from city hall, considered as Metropolitan Center area.

The Central District covers 5.67 square miles and has a total population of 117,132, according to the 2010 census. Center city is the home of Philadelphia's historic districts and properties, as well as upcoming area that is attracting new residents and subsequently, businesses to the city. As evidence, the residential population in the Central District has grown by over 17,000 residents during the last two decades and making it the third largest residential downtown in the country. The residents between the ages of 21 and 44 account for almost 80 percent of the surge, and almost two thirds of residents have college level degrees.

The transportation system is critical aspect of the Metropolitan Center's success including sustainable aspect. SEPTA, Southeastern Pennsylvania Transportation Authority serving Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties operates regional rail and bus service that brings commuters into the city. The two major highways (I-95 and I-676), passes through the Metropolitan Center, links in and out of the region. The tight grid of streets that has been historically constructed offers pedestrians friendly environment and a growing network of bike lanes offers commuters future alternative means of transportation.



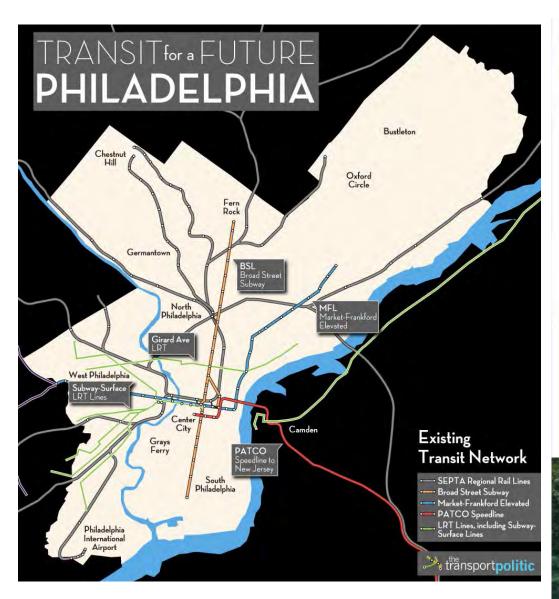


Figure 32

Real-time transit information

Figure 33

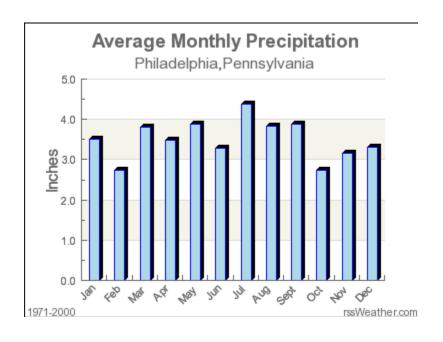
Management Security Processing Security Securi





Bike Share Program

Figure 34



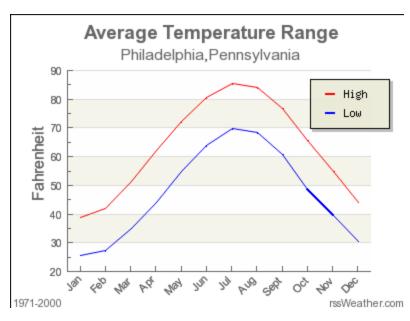
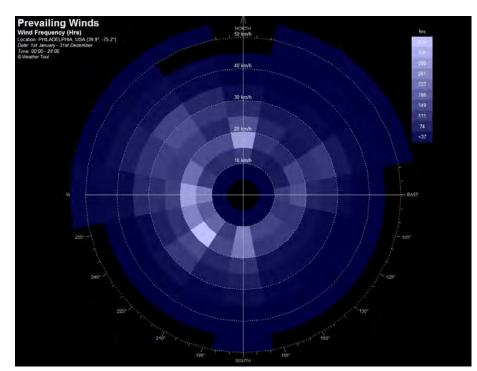


Figure 35



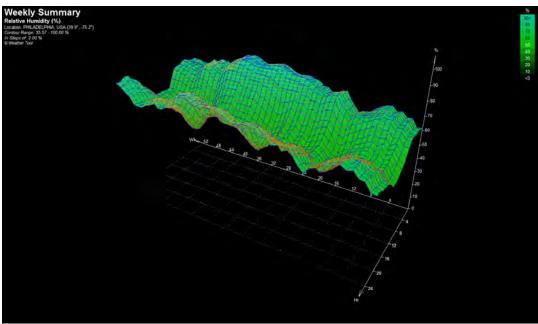


Figure 36

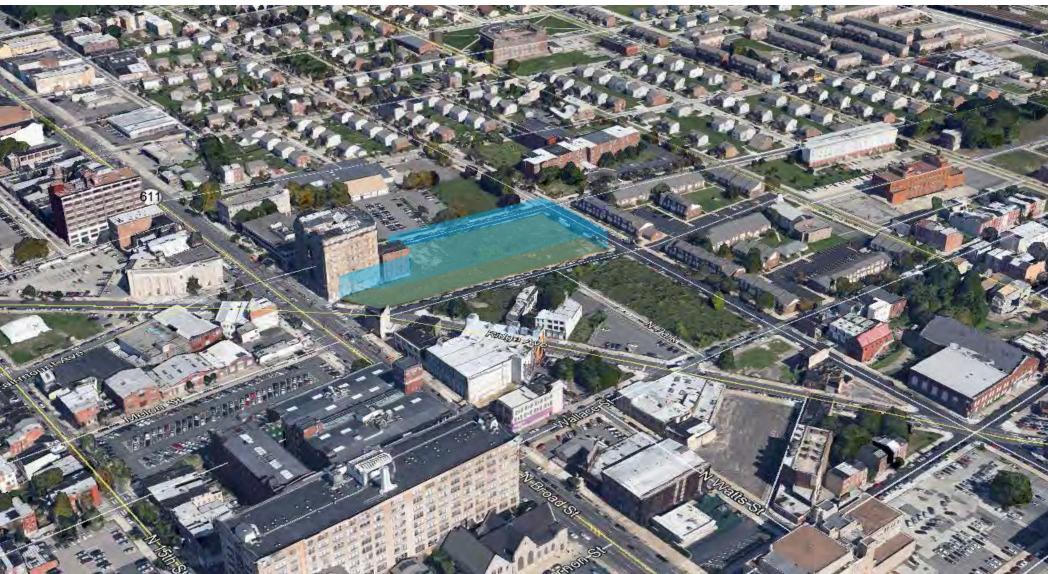
About Climate of Philadelphia

Philadelphia has humid warm climate throughout year. It reaches mid 80s during summer while it reaches mid 20s during winter. It certainly rains a lot throughout a year, and snows about 20 inches per year.

Typical summer philidelphia days are hot and muggy from rainfall, which turns generally mild and humid during fall and spring. During the winter, rainfall occasionnaly truns snow, which makes it wet and cold. It generally winds from North and West, however most of the humidity is brought from South and East by Western wind that brings moisture from Schuylkill Rivers. The hourly change of sun radiation is constant throughout year and as well as the relative humidity. The hourly relative humidity also indicates that never drops below 50% during day and usually reaches 90% at night. South East is optimum orientation based on annual average.

Considering the constant rainfall throughout the year and the fact that the site belongs to the urban setting, the onsite water management is required.

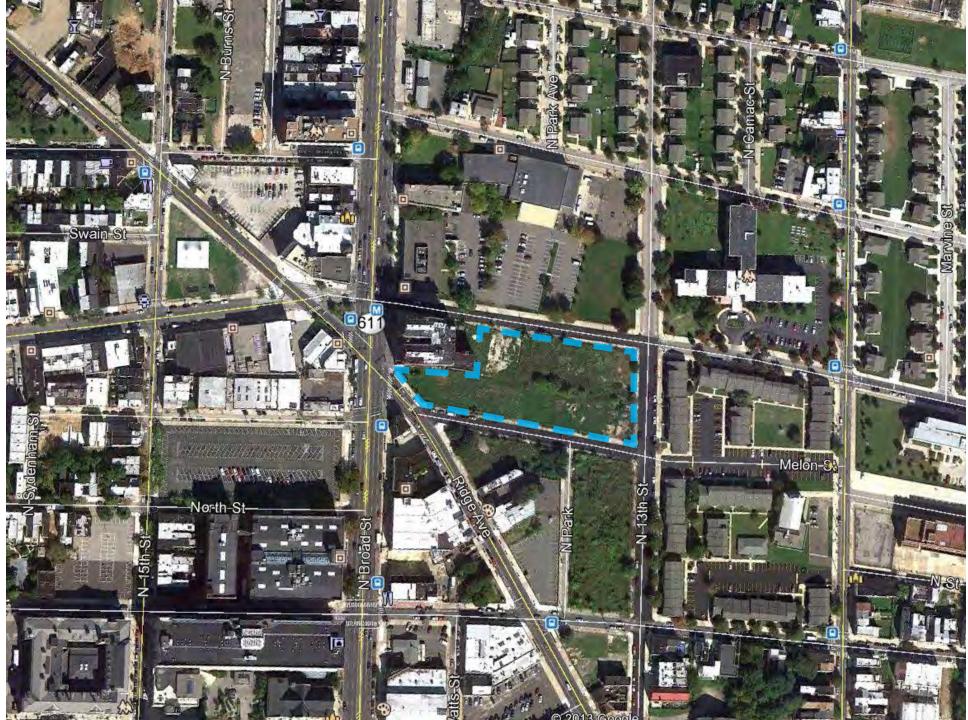
Site Information

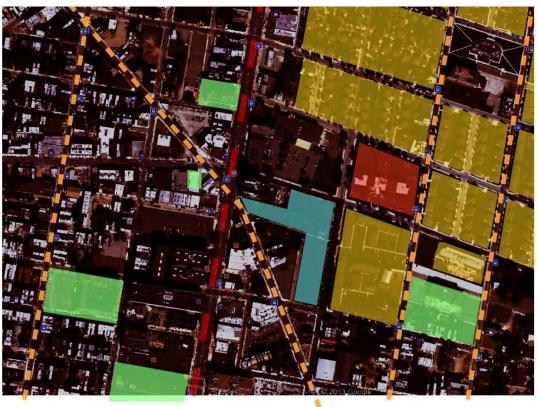


Project Site 39°57'59.05"N, 75°9'33.50"W 1300 Fairmount Ave, Philadelphia, PA.

The site of the project is located where the last of the vacant lots exist in the urban area. It is half way, 1mile to Temple University campus area and further North of the city along North Broad Street, which runs from the heart of the city, City Hall. Aside from the main street that runs by the site, there are existing Fairmount subway station and bus stations along North Broad Street, Fairmount Ave, Ridge Ave, North 13th and 12th Street by the property as well.

The east side of site is occupied by public housing, some of which are private dwellings under a low-income house ownership program by Philadelphia Housing Authority. Also among public housings there is a Spring Garden School. The west side of site across the North Broad Street, is occupied by high density urban housings and mixed use commercial properties, creates great economic and cultural flow to the site.





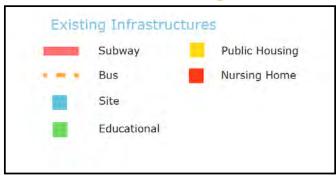
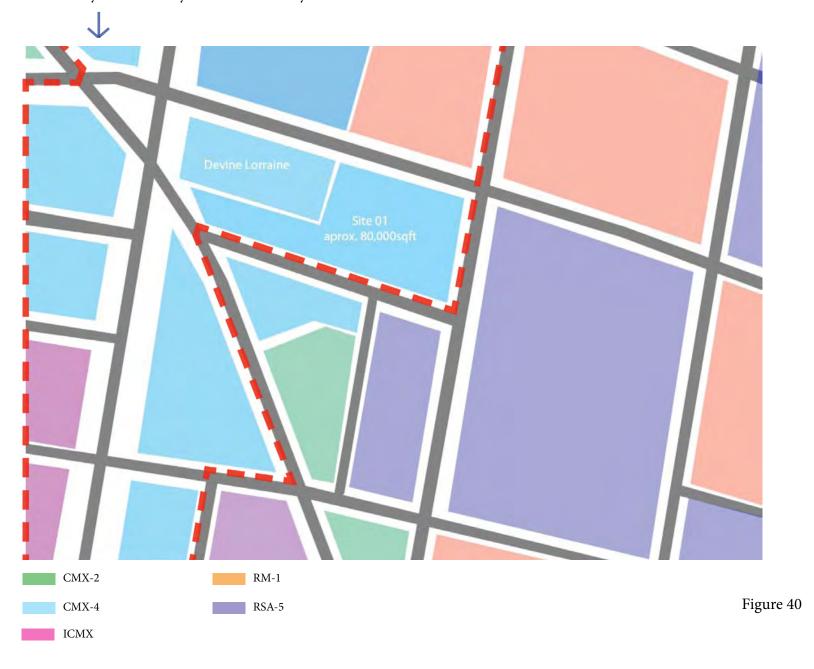


Figure 39

Broad Street area, North Citycenter overlay District Boundary



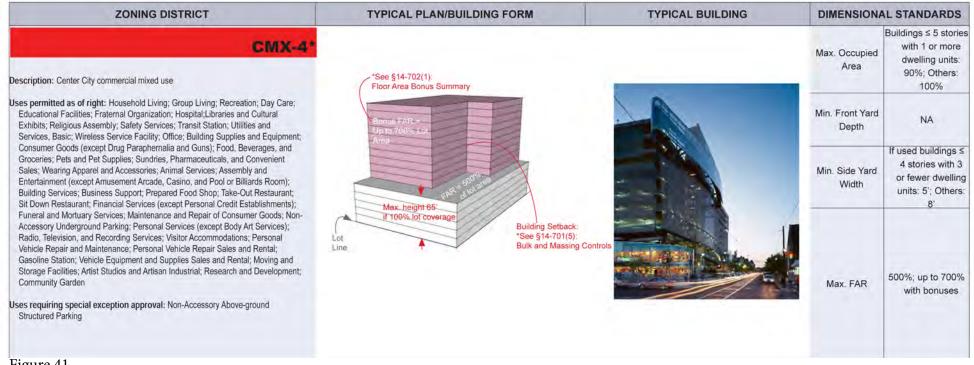
Zoning and Use around the Site

The site belongs to CMX-4 zoning while it is adjacent to RSA-5, RM-1, and CMX-3 zones. The CMX-4 is Center City Commercial Mixed Use. It anticipates high density uses that frames the face of the street, which does not necessary fulfill the need of community at this point, however considering future development that area anticipates, it is appropriate zoning.

Based on the Philadelphia zoning code, the CMX-4 does not interfere with the project proposed uses and occupation. Also the overlay zoning applies to site and it exists for supplemental use control for Broad Street Area North, which does not interfere with the project proposed uses and occupation neither.

Quick Reference Guide

Commercial Districts



ZONING AND PLANNING

Table 14-502-2: Supplemental Use Controls in the City Center Overlay District¹⁶⁵

	Chestnut and Walnut Street Area, East	Chestnut and Walnut Street Area, West		Broad Street Area, North	Chinatown Area	Old City Residential Area	South Street/ Head House Square Area	Use-Specific Standards
N = Not allowed (See § 14-502(5)								
Public, Civic, and Institution	al Use Categor	ry						
Utilities and Services, Basic	1	[1]	N		11	N		
Retail Sales Use Category								
Adult-oriented Merchandise	N	N	N	N		N		
Retail Sales of Consumer Goods, Furniture, Appliances, and Equipment (as noted below)								
Drug Paraphernalia Sales	N	N	N	N	14	N		§ 14-603(13)
Gun Shop	N	N	N	N		N		§ 14-603(13)
Commercial Services Use Ca	tegory							
Adult-Oriented Service	N	N	N	N		N		§ 14-603(13)
Assembly and Entertainment			10		N	N	N	§ 14-603(13); § 14-603(18)
Eating and Drinking Establishments (except as noted below)		S[4]	S[4]			S[4]		§ 14-603(6)
Take-Out Restaurant	N	N	N	N	11	S[4]	N	§ 14-603(6)
Financial Services (except as noted below)		[2]						
Personal Credit Establishment	N	N	N	N	, j	N		§ 14-603(13)
Parking	N.	N	N	1	N	N	14 (
Personal Services (except as noted below)			+1	N				
Body Art Service	N	N	N	N		N	N	§ 14-603(2); § 14-603(13)
Fortune Telling Service	[3]	[3]	[3]	[3]		[3]	[3]	
Vehicle and Vehicular Equip	ment Sales an	d Services Use	Category					
All Uses	N	N	N	N	N	N	N	
Wholesale, Distribution, Stor	rage Use Categ	ory			r e			
All Uses	N	N	N	N	N	N	1	

Program Outline

-Temple University city center branch -Philadelphia Libary Fairmount branch

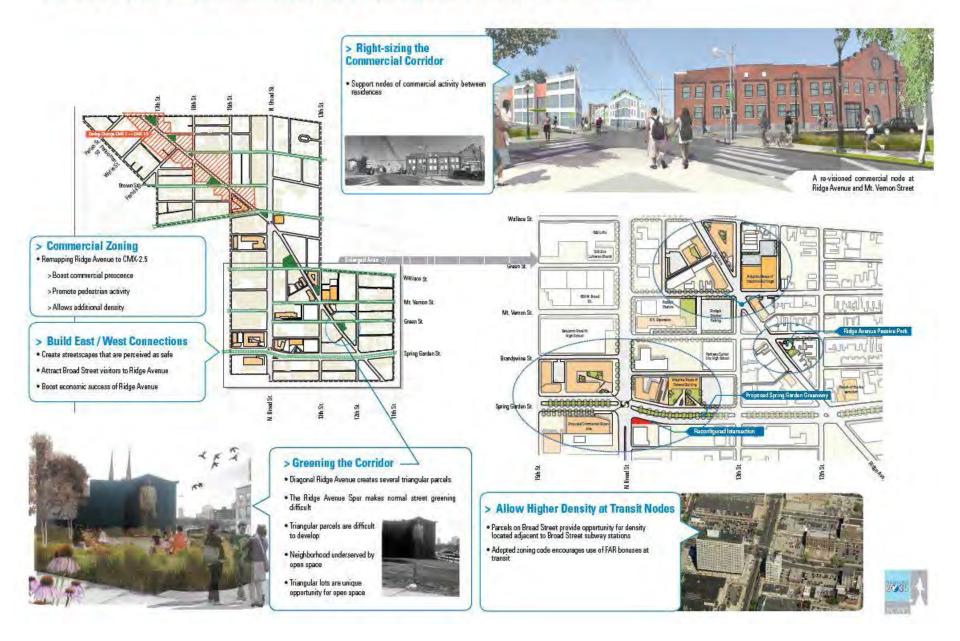
Main Office	1@ 700ft ²	Cafe	$1@1000 \mathrm{ft}^2$
Individual Office	10@ 100ft ²	Community Garden	1@4000ft ²
Class Rooms	14@ 600ft ²	Lobby	1@ 2500ft ²
Seminar Room	2@ 700ft ²	Reading room	1@ 2000ft ²
Interactive Lounge	2@ 1000ft ²	Exhibition Room	1@1200ft ²
Locker Room	4@ 400ft ²	Library	$1@5000 \mathrm{ft}^2$
Bathrooms and Utility	2000ft ²	Workshop	2@600ft ²
		Bathrooms and Utility	2000ft ²

Total: 17,100.ft² (*19,665.ft²) Total: 18,900.ft² (*21,735ft²)

*In addition to that mechanical room based on appropriate system and 15% for circulation.



FOCUS AREA > Revitalizing Ridge Avenue and North Broad Sreet



Building Life Expectancy

For "Interactive urban campus and library for local communities for future need", learning the tendency of the building life cycle and the future development of the area would help determining future need of the community, and change in function of the library itself should be noted.

For building life cycle, according to Information Bulletin #4, "What happens over the life of the building?" by CHOA, RDH Building Engineering Ltd. and the Real Estate Foundation of BC. They summaries life cycle of the buildings from asset point of view as all the property are different by material and details and in general life, they goes through five stages and they require different attention. Pre-Natal, Childhood, Adolescence, Adulthood, Old Age. The buildings are capable for capital development during pre-natal stages, which is first two years of their life.⁶

In contrast, "Survey on actual service lives for North American buildings" by O'Conner, Jennifer provide lifespan relationship to the structural materials and the reasons for demolition in relation to structural materials based on the building that has been demolished during the three years.⁷ The research is not take building use and scale in account yet defines the reasons for demolition.

Both O'Conner and CHOA, indicates that material and initial establishments decide the service life and life cycle of the building. The future development view of the site neighborhood has been propose within the philly2035, city comprehensive plan. Also from change in nearby zonig, the area is identified as a part of walkable commercial and green corridor that connects Northeast city center to downcity Philadelphia. To accomodate this change, establishing interaction with the street would be prefered quality for the propsed buildings.

Considering the use of the propsed buildings, iconic quality and durability is required. Expected life span of them are not yet determined, however the future change should be accomodated and considered. According to a diagram of the O'Conner, the most common structural material of the building for age group 25-50 years is concrete, then steel comes in the second. Twenty to fifty years would

be conductive time scale for the city planning as well. Therefore for propsed building design, conctre and steel frame structure should be considered as structureal material.

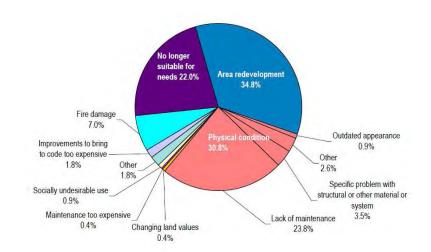


Figure 7 Distribution of "reason for demolition" responses for all 227 buildings.

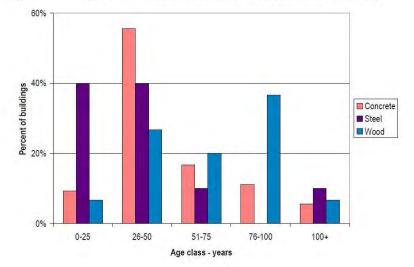


Figure 6 Distribution of 94 non-residential buildings by age class and by structural material (buildings with combinations of materials excluded).

Graphical Annotation

The cover page

Matt W., Moor. B/W Series #6 (2011). < http://mwmgraphics.com/black_white_b6.html>

- 1. Philadelphia City Planning Comission. Philadelphia 2035: Central District Plan. 2013.
- 2. ibd.
- 3. ibd.
- 4. Free Library of Philadelphia.
- 5. Temple University.
- 6. "Children's Library Discovery Center / 1100 Architect" 14 Aug 2012. ArchDaily. Accessed Dec 2013. http://www.archdaily.com/?p=263005>
- 7. ibd.
- 8. Google Map. 2013.
- 9. ArchDaily. ibd.
- 10. ArchDaily. ibd.
- 11. ArchDaily. ibd.
- 12. ArchDaily. ibd.
- 13. ArchDaily. ibd.
- 14. ArchDaily. ibd.
- 15. ArchDaily. ibd.
- 16. Google Map. 2013.
- 17. "Jasper Place Branch Library / HCMA/Dub Architects" 12 Jul 2013. ArchDaily. Accessed Dec 2013. http://www.archdaily.com/?p=398988>
- 18. "Jasper Place Branch Library in Edmonton, Canada" 10 Aug 2013. TopBox Design. Accessed Dec 2013. http://www.topboxdesign.com/jasper-place-branch-library-in-edmonton-canada/
- 19. Google Map. 2013.
- 20. "Jasper Place Branch Library / HCMA/Dub Architects" ibd.

- 21. ibd.
- 22. ibd.
- 23. ibd.
- 24. ibd.
- 25. ibd.
- 26. ibd.
- 27. ibd.
- 28. ibd.
- 29. Google Map. 2013.
- 30. Google Earth. 2013.
- 31. Philadelphia City Planning Comission. ibd.
- 32. Yonah., Freemark. "Transit for a Future Philadelphia" 8 April 2009 TransportPolitic. Accessed Dec 2013. http://www.thetransportpolitic.com/2009/04/08/transit-for-a-future-philadelphia/
- 33. Philadelphia City Planning Comission. ibd.
- 34. Marc., Lomax. "We are (Bearly Nearly, Almost) Getting There" 22 Sept 2010. Motrpolis. Accessed Dec 2013. http://www.phlmetropolis.com/2010/09/were-barely-nearly-almost-getting-there.php
- 35. "Climate for Philadelphia, Penssylvania." RSSWeather.com. Accessed Dec 2013. http://www.rssweather.com/climate/Pennsylvania/Philadelphia/>
- 36. Weather Tool. 2013
- 37. Google Map. 2013.
- 38. Google Map. 2013.
- 39. Karin Hirose.
- 40. Karin Hirose.
- 41. Philadelphia City Planning Comission. Quick Reference Guide. Sept 2012.
- 42. Philadelphia City Planning Comission. "Philadelphia Zoning Code". Title 14. http://www.amlegal.com/nxt/gateway.dll/Pennsylvania/philadelphia_pa/title14zoningandplanning?f=templates\$fn=default.ht m\$3.0\$vid=amlegal:philadelphia_pa
- 43. Google Map. 2013.
- 44. Philadelphia City Planning Comission. ibd.

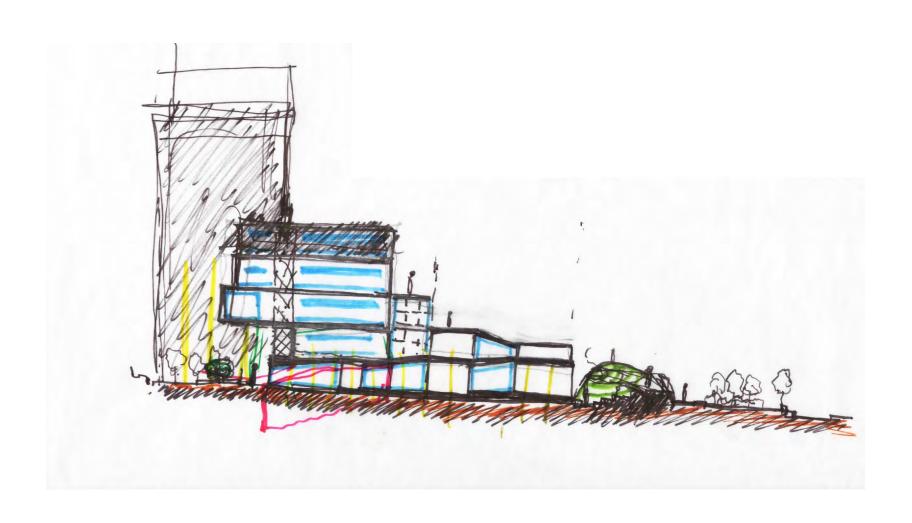
45. Jennifer, O'Connor. "Survey on actual service lives for North American buildings" Presented at Woodframe Housing Durability and Disaster Issues conference, Las Vegas, October 2004. Accessed Dec 2013. http://www.cwc.ca/documents/durability/DurabilityService_Life_E.pdf >

Note

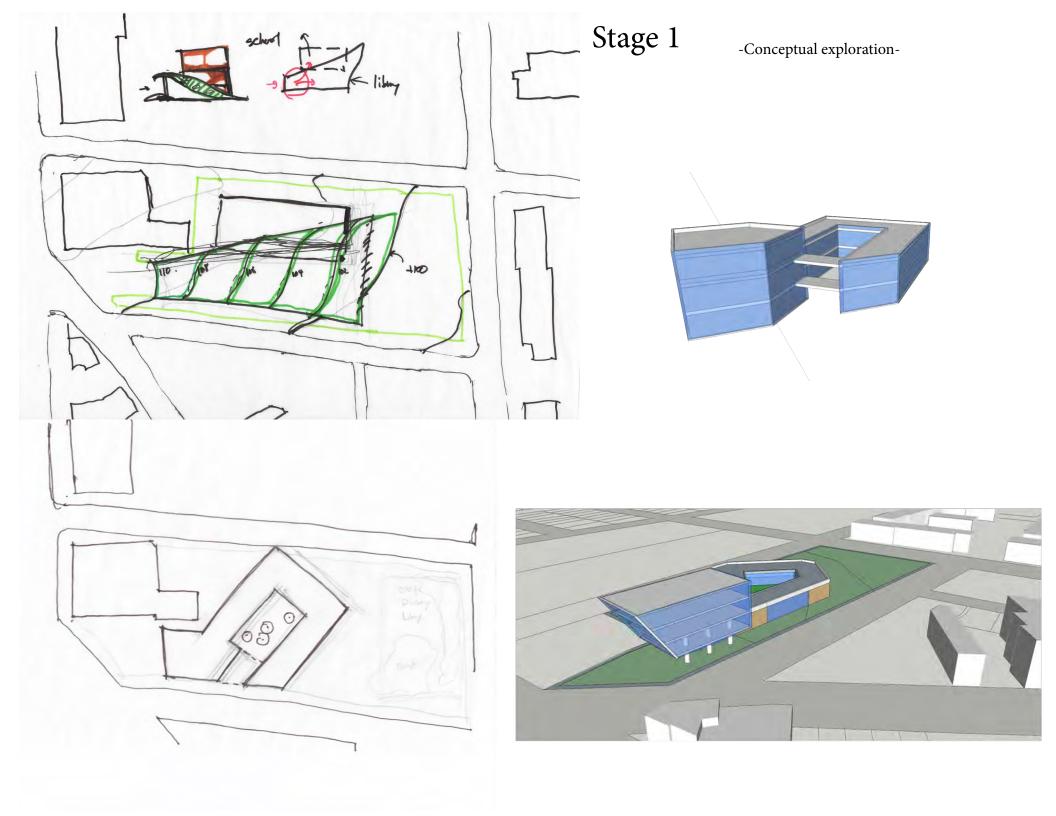
- 1. "Vacant Property Strategy." City of Philadelphia. Department of License and Inspection. March 20 2013., http://www.phila.gov/li/aboutus/Pages/VacantPropertyStrategy.aspx
- 2. Kase, Aaron. "The Ugly Truth About Phillys Vacant Lots." Philadelphia Weekly. November 16 2010., http://www.philadelphiaweekly. com/news-and-opinion/The-Ugly-Truth-About-Phillys-Vacant-Lots. html
- 3. Kerkstra, Patrick. "Property-tax debt is ravaging Philadelphia." Philly.com., March 11 2013. http://articles.philly.com/2013-03-11/news/37600646_1_delinquent-properties-delinquent-real-estate-tax-base
- 4. Philadelphia 2035. March 20 2013. http://phila2035.org/home-page/district/central/
- 5. Fiedler, Elizabeth. "North Broad neighbours worry they will be pushed out by Divine Lorraine project," News Works., October 25 2012., http://www.newsworks.org/index.php/local/item/46040-north-broad-neighbors-worry-they-will-be-pushed-out-by-divine-lorraine-project
- 6. CHOA, RDH Building Engineering Ltd. and the Real Estate Foundation of BC. "What happens over the life of the building?" Information Bulletin #4. Accessed March 2013. http://www.choa.bc.ca/_resources/Bulletin04_Life_of_Buildings.pdf
- 7. Jennifer,. C'Onnor. "Survey on actual service lives for North American buildings" Presented at Woodframe Housing Durability and Disaster Issues conference, Las Vegas, October 2004. Accessed Dec 2013. < http://www.cwc.ca/documents/durability/DurabilityService_ Life_E.pdf >

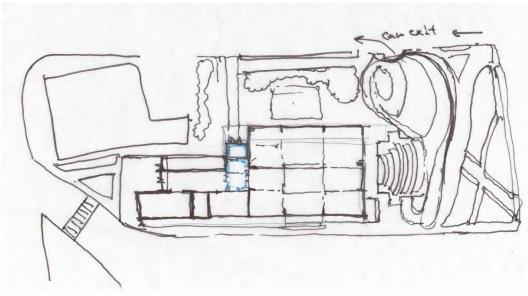


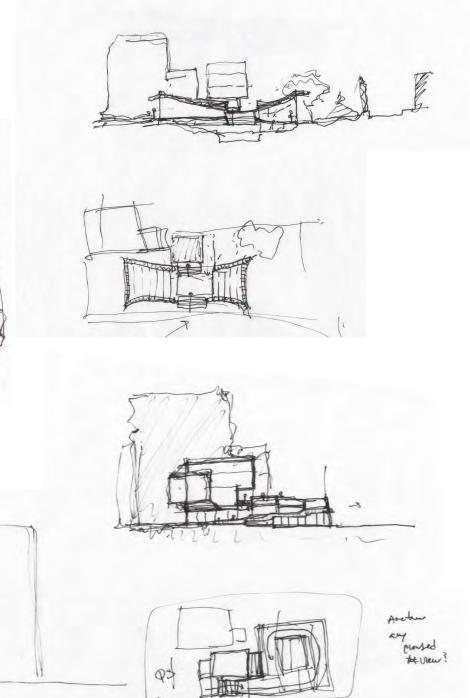
Design Documentation



Design Development





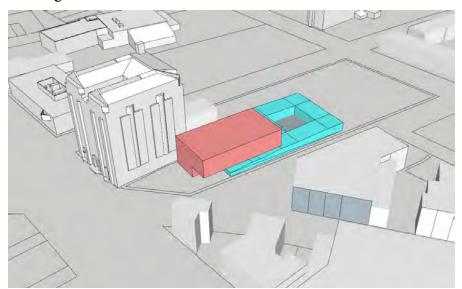


At this point designs are exploreing the possible strategies on site as well as programatic options.

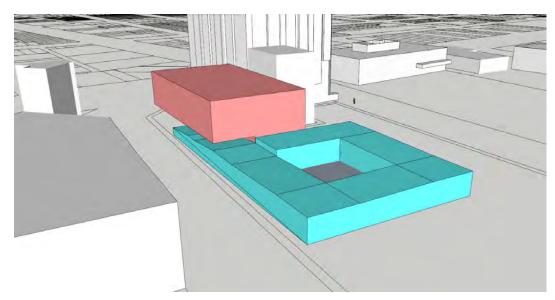
The idea of front plaza toward North Broad Street, shared entry space for two buildings, roof garden, and community space are present.

Stage 2 -Parti design-

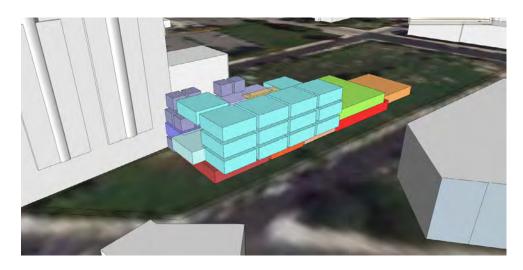
Design 1

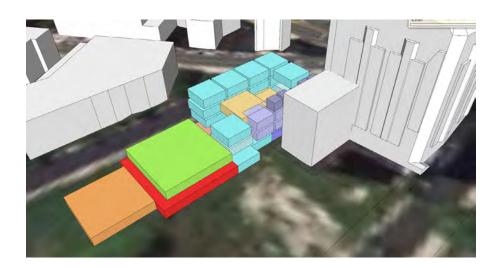


The general direction of the buildings are consolidated. Such as sculptural library building with roof garden, college building in multistory tower, and programatic layout by the type of building.



Red is college building and blue is library building.

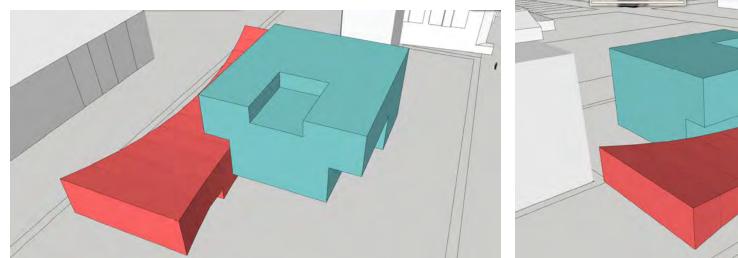


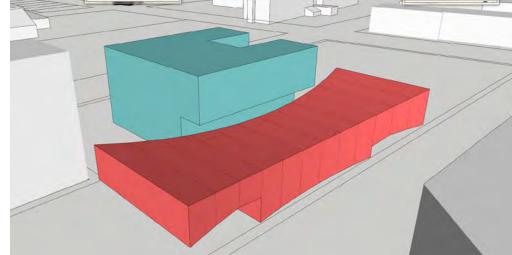


Program layout

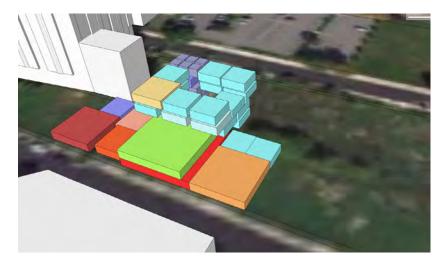
College Building- Blue is Class room, Pale blue is Seminar room, Tan is Interactive open space, and Purple is Service space. Libaray Building- Carmine is shared entry space, Orange is Library reception, Red is Library stack, Pale orange is Reading space, Green is Roof garden

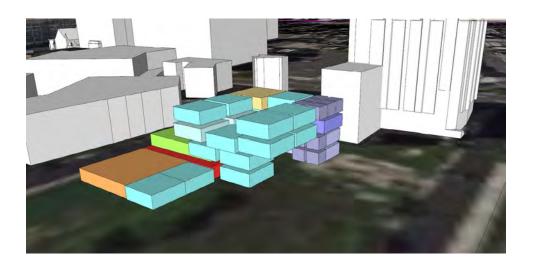
Design 2





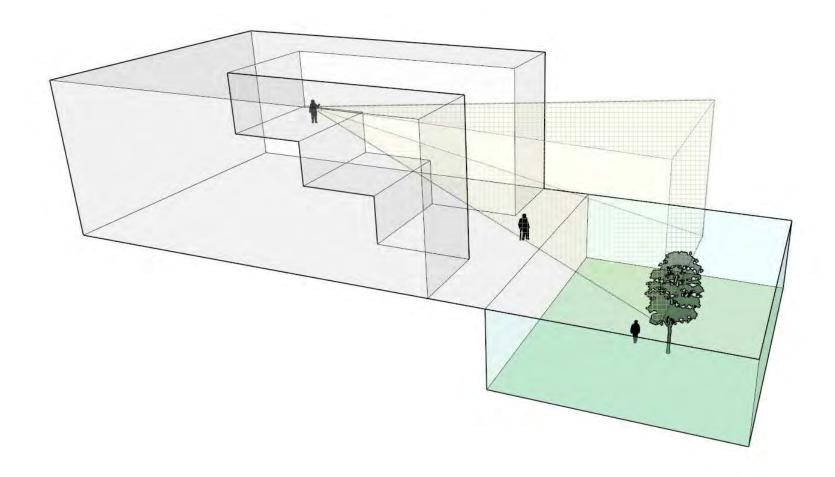
Red is library building and blue is college building.





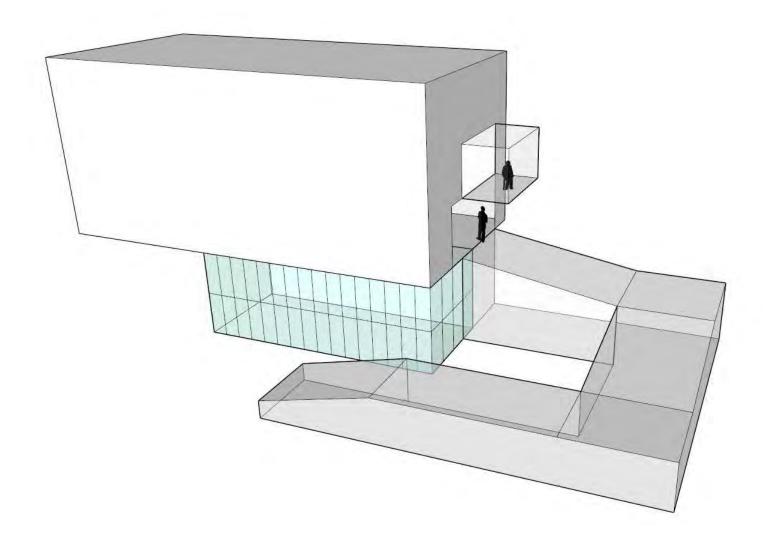
Program layout

The spaces are color coded the same with program layout of design 1.



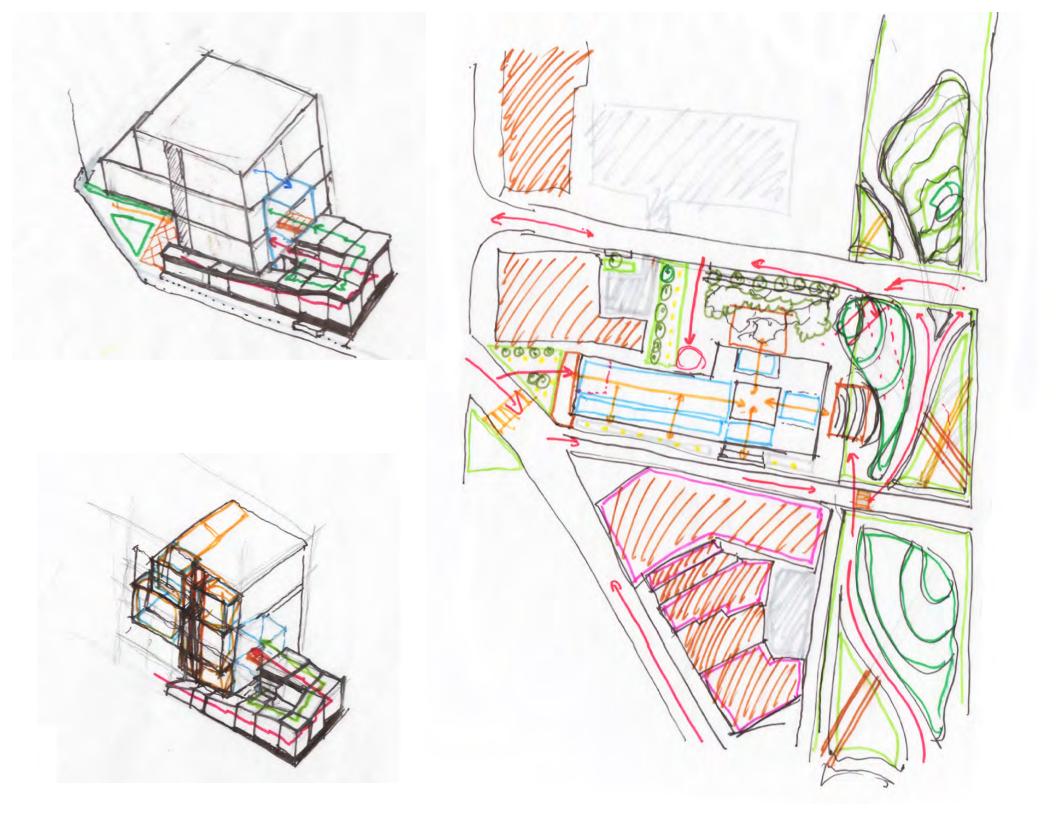
The general form of the buildings and arrengements are decided. More detailed relationship between two buildings and materiality are considered.

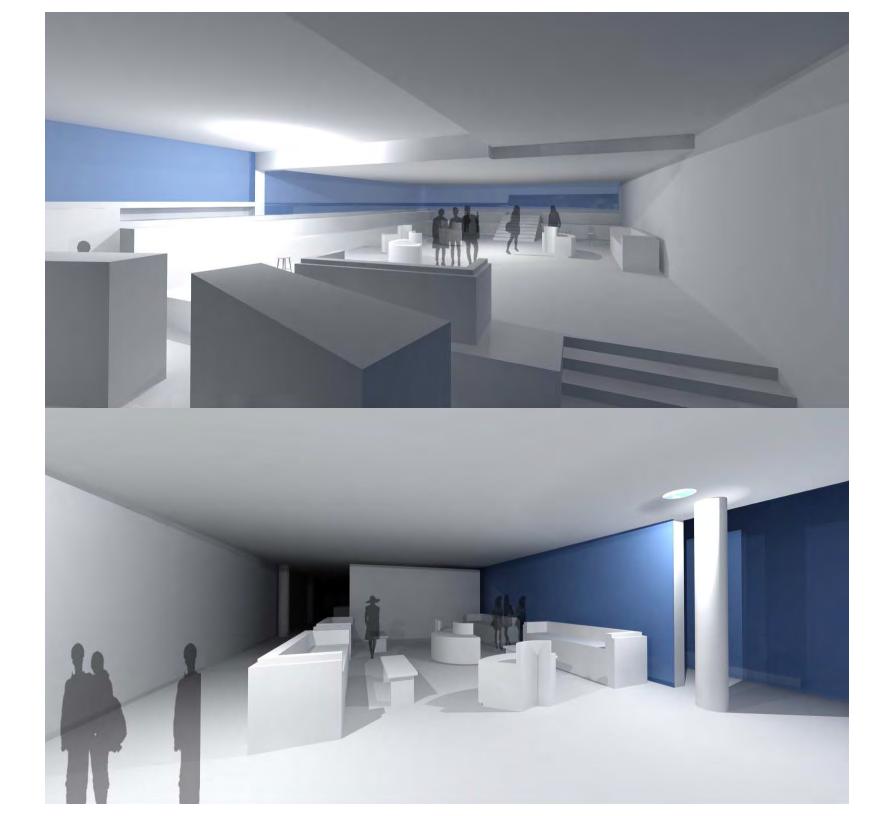
The open communal spaces of college building are visually connected and also visually open toward Library buildign include its courtyard.

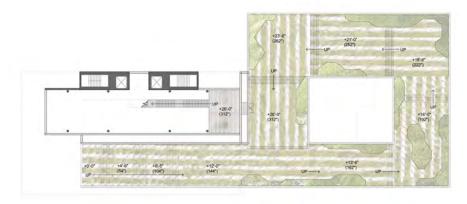


The shared entry space is two story high glass envelope and college building is placed on top. The cantilevering building over entry plaza emphasize its repesence to high traffic North Borad Street, while the building is not at the ground level and recessed from the property line in urban area.

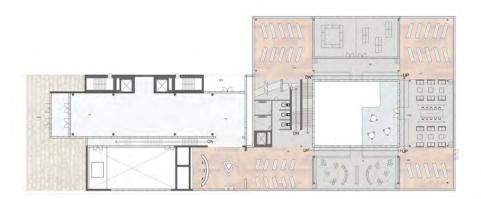
The sculptural roof garden has ground level entry and has one of the exist at the college building, this allowes alternative access to the college building.



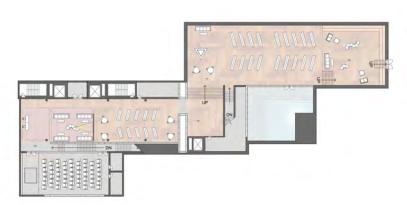




Third Floor



Ground Floor



Cues Ren

Cues R

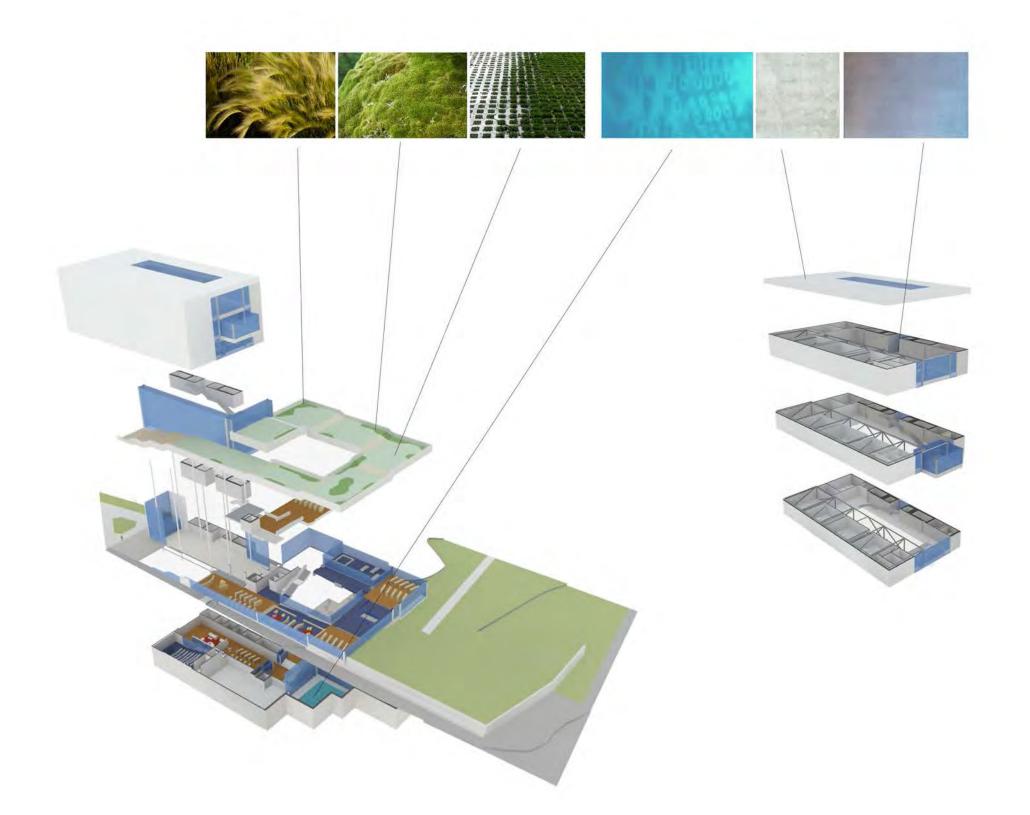
Seventh Floor



Sixth Floor



Basement Floor Fifth Floor

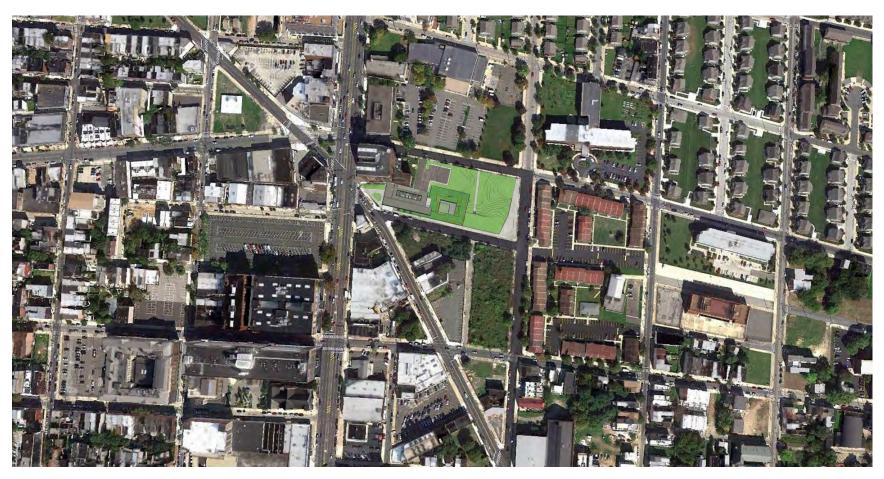








Final Design



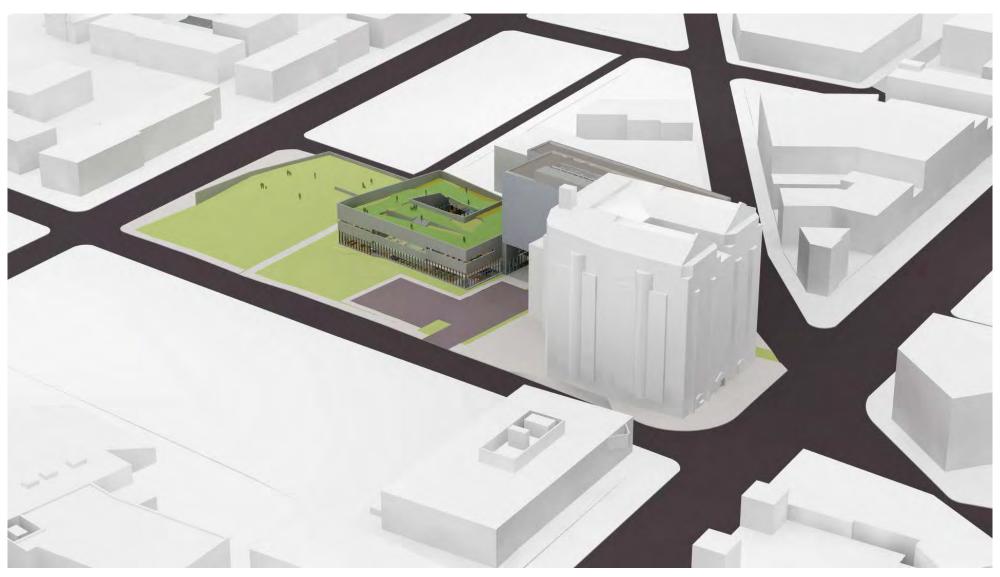
1'=2400' scale



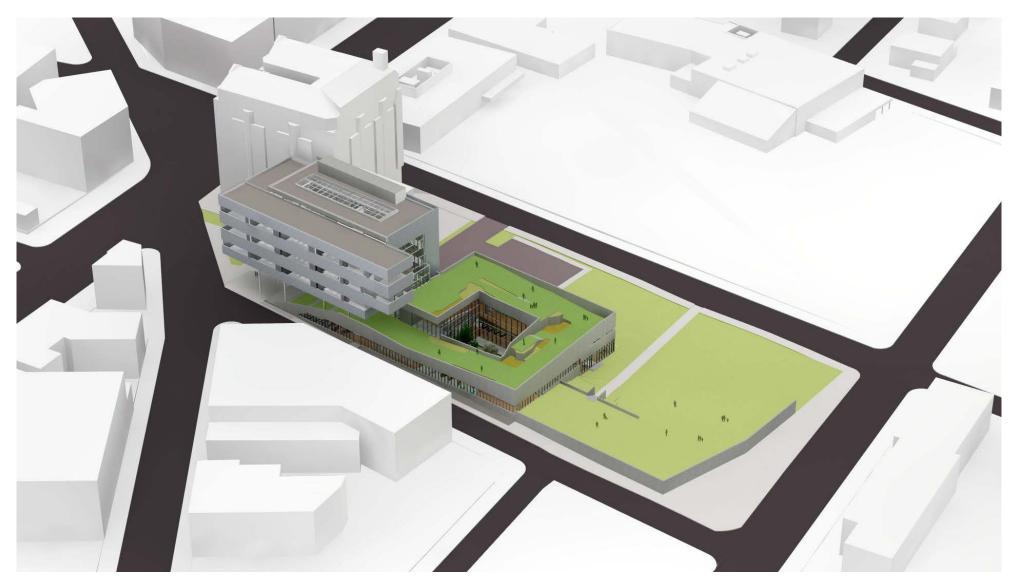
1'=1800' scale



From Northeast



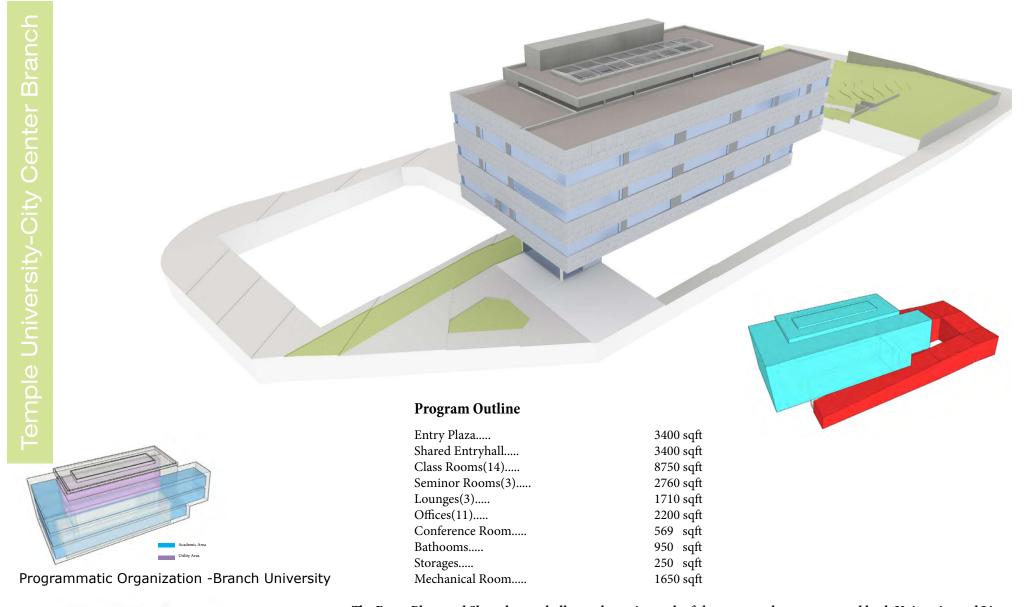
From Northwest



From Southeast



From Southwest





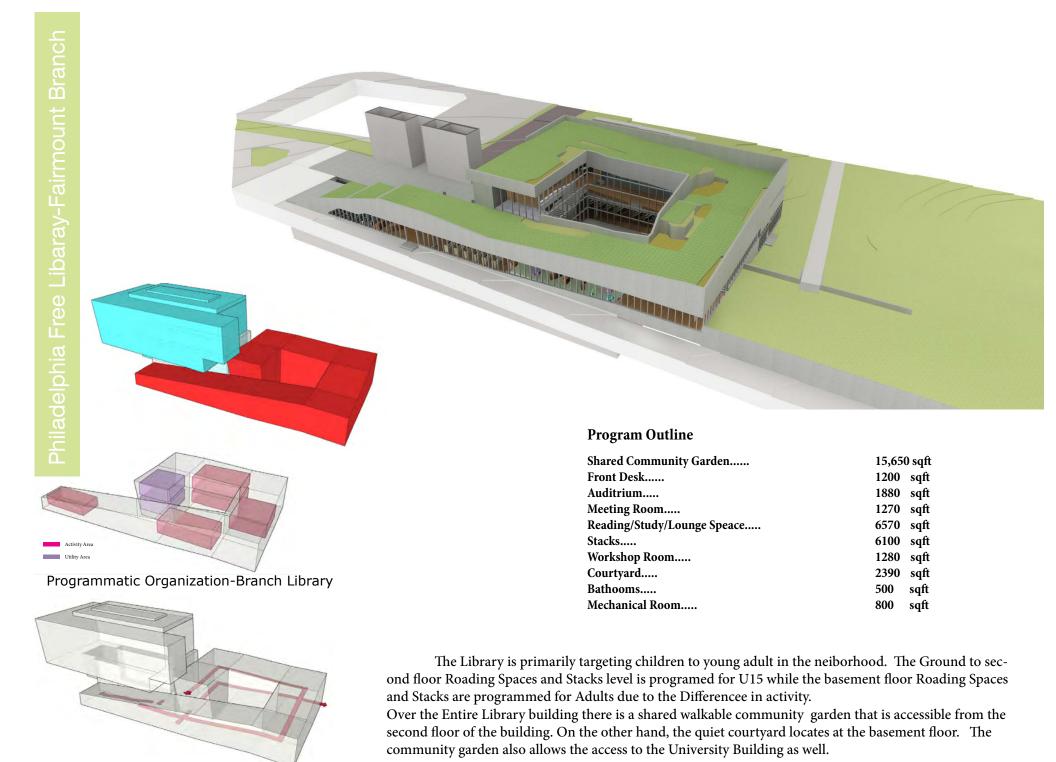
Building Circulation-Branch University

The Entry Plaza and Shared entry halls are the major path of the entry to the property and both University and Library buildings.

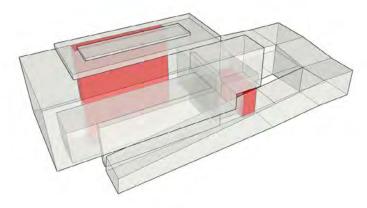
There is a secondary means of entry to the University Building which is through the shared community garden which is over the Library building.

Branch University Building has two story high entry hall and all of the University programs locate within Third to Fifth Floor.

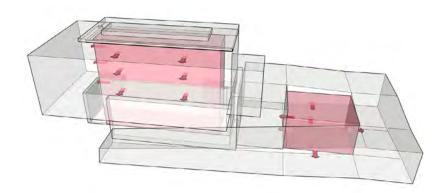
The Classroom floors are arrenged in U-shape that open towards garden spaces of the Library Building. Steel bar grating bridges with Lounge spaces are between the the end of U-shape. This gives sence of separation from the rest of the space and transparency, while allowing visual interaction with the garden spaces.



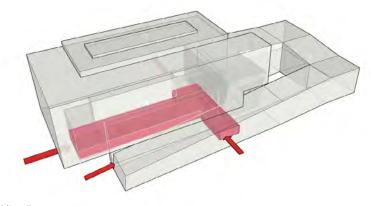
Building Circulation-Branch Library



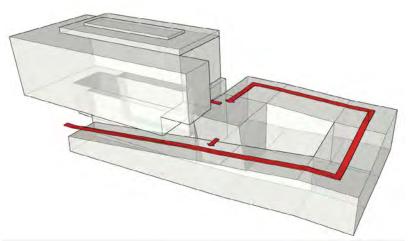
Building Circulation Cores



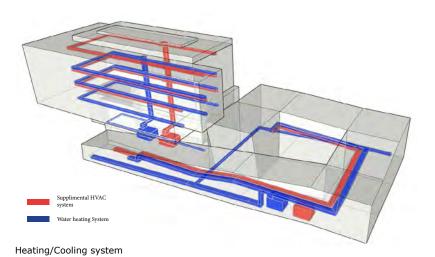
Void-community space



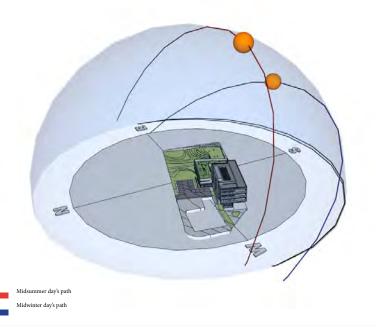
Building Entry

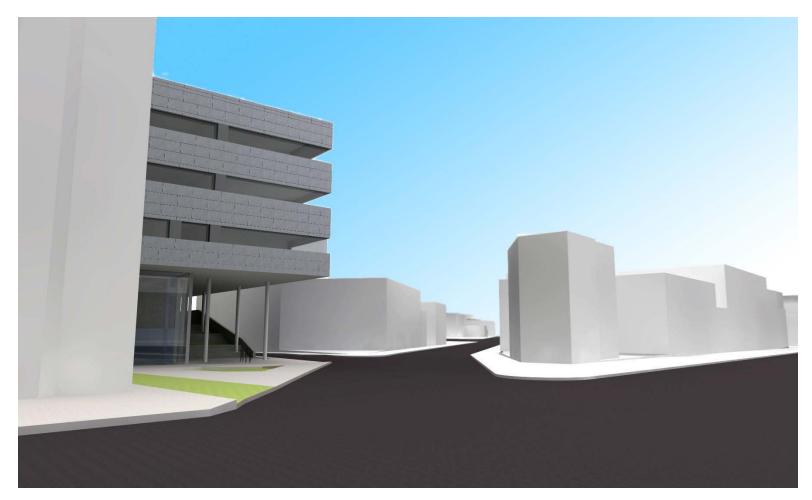


Roof garden Circulation



Sun path in relation to the buildings





From intercestion of North Broad St and Ridge Ave



From North Broad St. to property





From intersection of Ridge Ave. and Melon St to property





From intersection of Melon St. and North 13th St. to property



From South of roof garden to branch college building



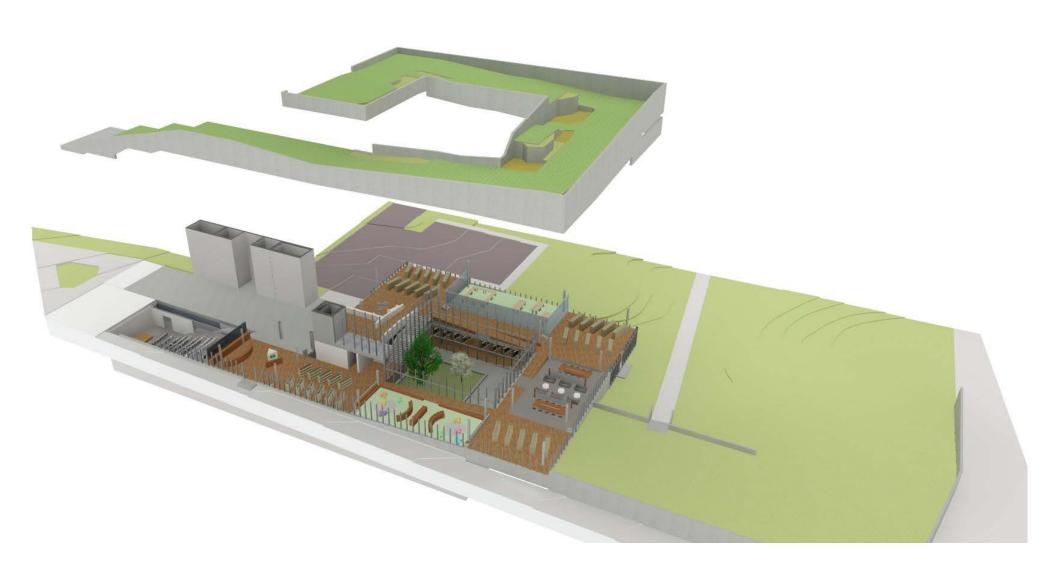
From roof garden to South



From North of roof garden to West

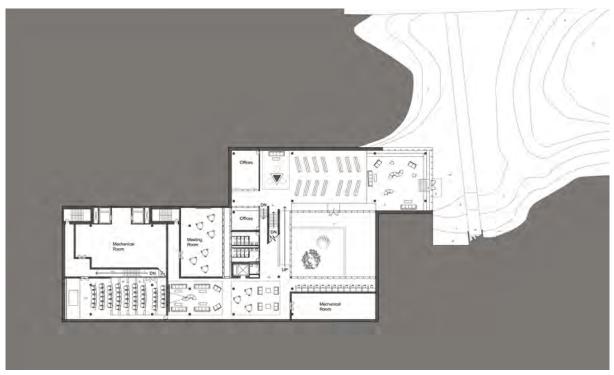


From North of garden to buildings



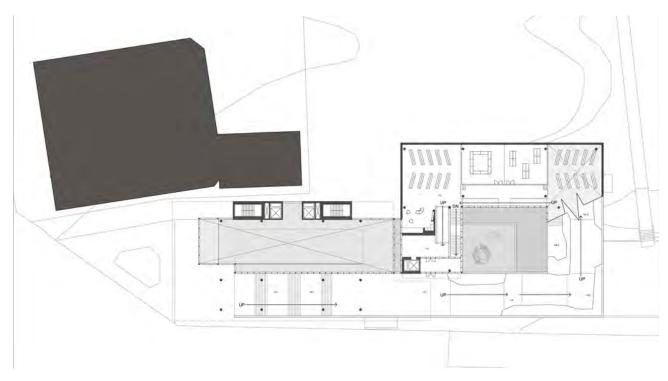
Plans, Elevations, and Sections

at 1'-0"=1/64" scale

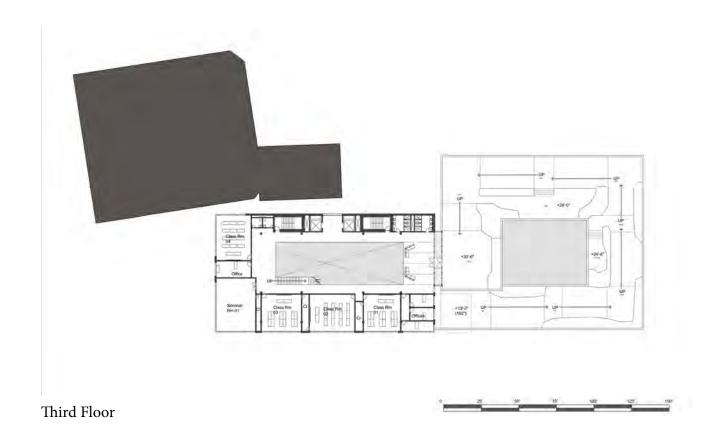


Basement Floor





Second Floor



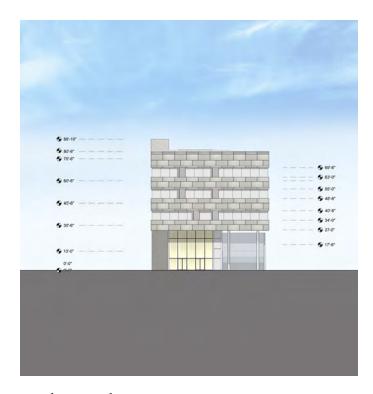


Fourth Floor

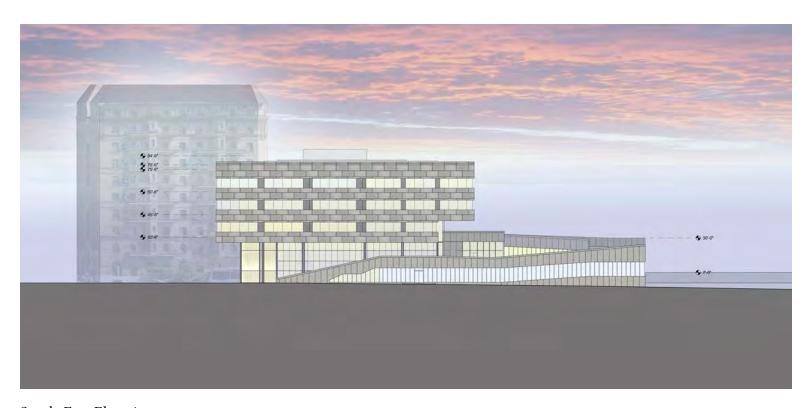


Fifth Floor





North-West Elevation

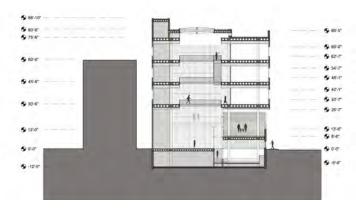


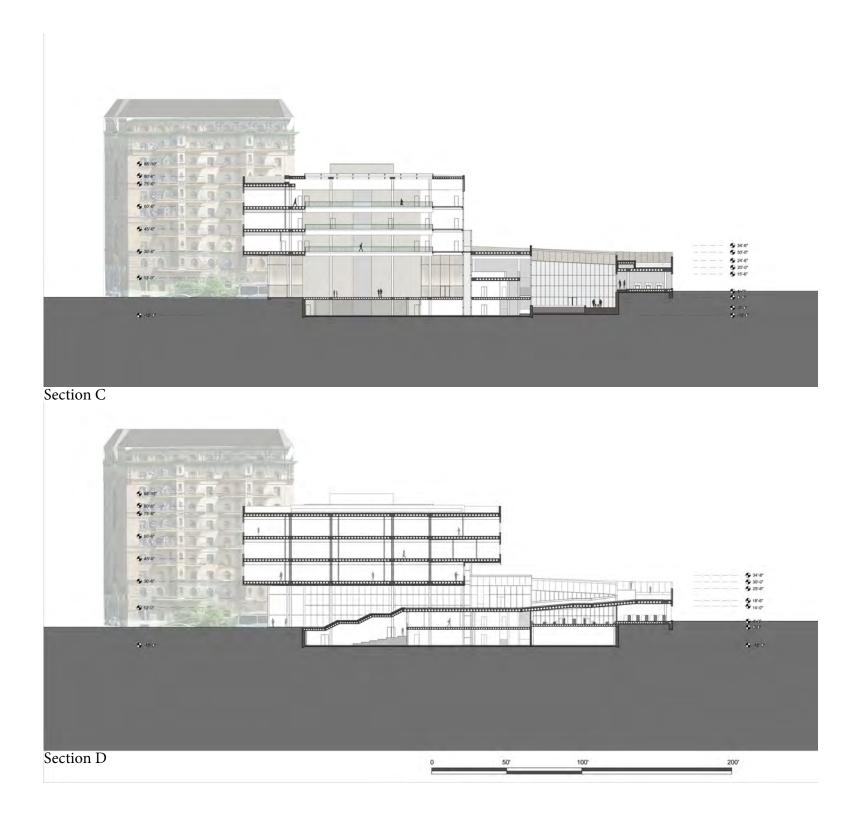
South-East Elevation





Section A Section B





Typical college exte-Typical college exterior wall construc-Typical college floor construction rior wall construc-<u>tion</u> tion 2'x 2' Tile carpeting system 3/4" Building substrate Concrete panel rainscreen system with hoizonal sup-2" of poured concrete with 1" PEX pipe attached to wire mesh port 8" Voided biaxial slab with reinforcement mesh 1 1/2" Air space Water barrier 2 1/2" Insulation 3/4" Building substrate 6" Light-gauge metal framing with batt insulation Vapor barrier 3/4" Building substrate 5/8" Gypsum board Typical college floor

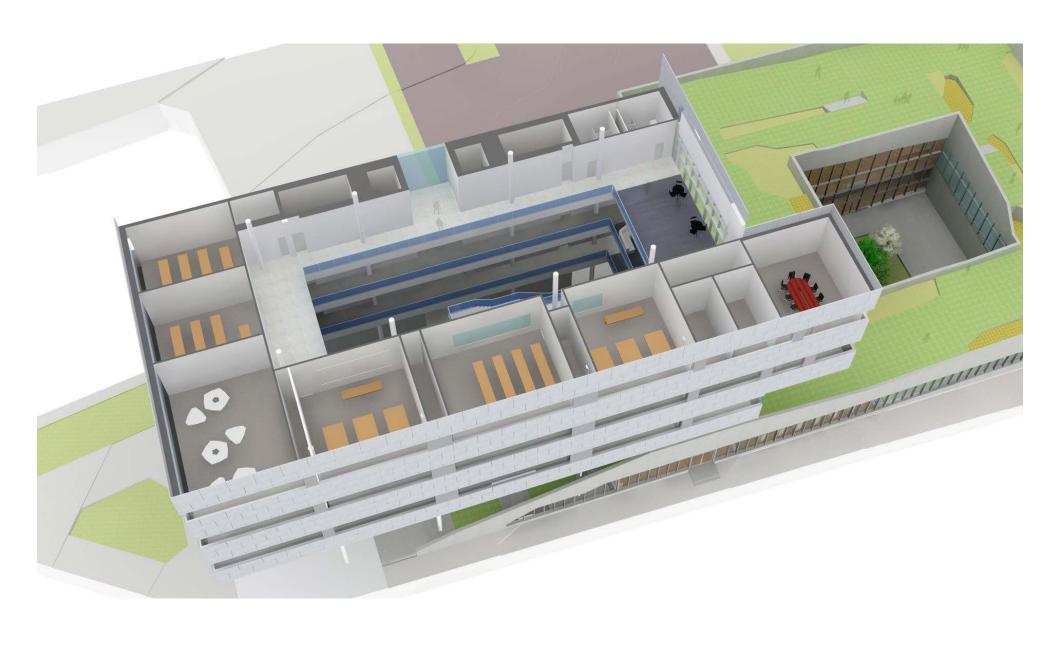
construction

Typical floor and exterior wall construction of college building

Typical library exterior wall con-Typical library exterior wall construc-Typical roof garden floor construction struction <u>tion</u> Soil with seed for filling tile gap 2'x2'x1 1/2" Concrete drivable green tile system Concrete panel rainscreen system with vertal support 2" of sand 1 1/2" Air space Drainage fabric Water barrier Roof barrier 2 1/2" Insulation Water barrier 8" CMU with vertical and horizonal reinforcement 4 1/2" Insulation Insualtion 10" Voided biaxial slab with reinforcement mesh Water barrier Concrete panel rainscreen sysytem Typical roof garden

floor construction

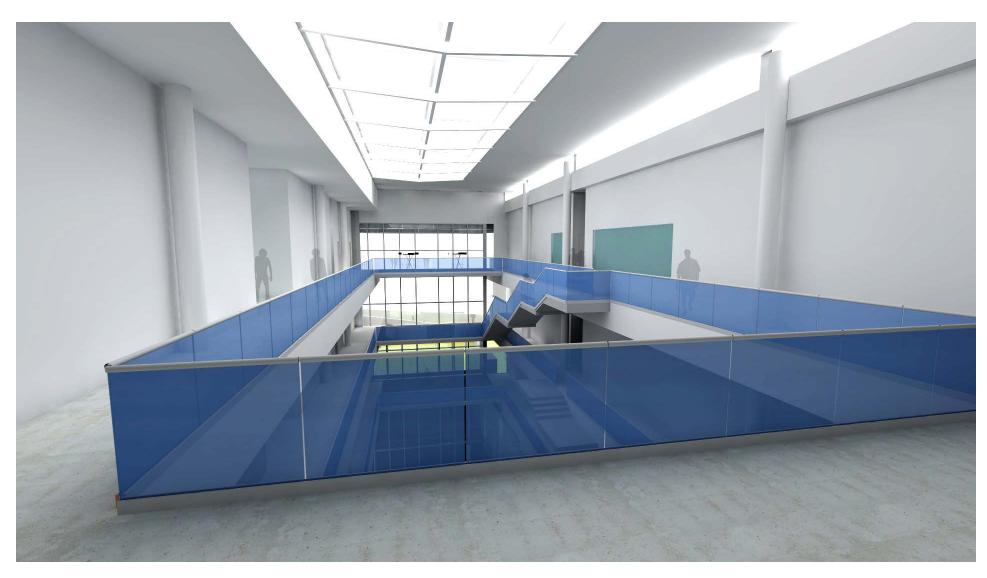
Typical roof garden floor and exterior wall construction of library building



General Views



College entry hall



Interior of the top floor of the college building



From Plaza to Roof garden entry



Roof garden-1



Roof garden-2



Roof garden-3



Roof garden-4



Library basement floor lounge toward courtyard



Library courtyard



From north of roof garden to branch college building



From Fairmount Ave. to library building and yard

Bibliography

Matt W., Moor. B/W Series #6 (2011). < http://mwmgraphics.com/black_white_b6.html>

Philadelphia City Planning Comission. Philadelphia 2035: Central District Plan. 2013.

Philadelphia City Planning Comission. Quick Reference Guide. Sept 2012.

Philadelphia City Planning Comission. "Philadelphia Zoning Code". Title 14. http://www.amlegal.com/nxt/gateway.dll/Pennsylvania/philadelphia_pa/title14zoningandplanning?f=templates\$fn=default.htm\$3.0 \$vid=amlegal:philadelphia_pa

City of Philadelphia. Department of License and Inspection. "Vacant Property Strategy." Accessed March 2013., http://www.phila.gov/li/aboutus/Pages/VacantPropertyStrategy.aspx

Free Library of Philadelphia. Accessed Febuary 2013. http://www.freelibrary.org/

Temple University. Accessed April 2013. http://www.temple.edu/

"Children's Library Discovery Center / 1100 Architect" 14 Aug 2012. ArchDaily. Accessed Dec 2013. http://www.archdaily.com/?p=263005

"Jasper Place Branch Library / HCMA/Dub Architects" 12 Jul 2013. ArchDaily. Accessed Dec 2013. http://www.archdaily.com/?p=398988

"Jasper Place Branch Library in Edmonton, Canada" 10 Aug 2013. TopBox Design. Accessed Dec 2013. http://www.topboxdesign.com/jasper-place-branch-library-in-edmonton-canada/

Yonah., Freemark. "Transit for a Future Philadelphia" 8 April 2009 TransportPolitic. Accessed Dec 2013. http://www.thetransportpolitic.com/2009/04/08/transit-for-a-future-philadelphia/

Marc., Lomax. "We are (Bearly Nearly, Almost) Getting There" 22 Sept 2010. Motrpolis. Accessed Dec 2013. http://www.phlmetropolis.com/2010/09/were-barely-nearly-almost-getting-there.php

Kase, Aaron. "The Ugly Truth About Phillys Vacant Lots." Philadelphia Weekly. November 16 2010., http://www.philadelphiaweekly. com/news-and-opinion/The-Ugly-Truth-About-Phillys-Vacant-Lots. html

Kerkstra, Patrick. "Property-tax debt is ravaging Philadelphia." Philly.com., March 11 2013. http://articles.philly.com/2013-03-11/news/37600646_1_delinquent-properties-delinquent-real-estate-tax-base

Fiedler, Elizabeth. "North Broad neighbours worry they will be pushed out by Divine Lorraine project," News Works., October 25 2012., http://www.newsworks.org/index.php/local/item/46040-north-broad-neighbors-worry-they-will-be-pushed-out-by-divine-lorraine-project

"Climate for Philadelphia, Penssylvania." RSSWeather.com. Accessed Dec 2013. http://www.rssweather.com/climate/Pennsylvania/Philadelphia/

CHOA, RDH Building Engineering Ltd. and the Real Estate Foundation of BC. "What happens over the life of the building?" Information Bulletin #4. Accessed March 2013. http://www.choa.bc.ca/_resources/Bulletin04_Life_of_Buildings.pdf

Jennifer,. C'Onnor. "Survey on actual service lives for North American buildings" Presented at Woodframe Housing Durability and Disaster Issues conference, Las Vegas, October 2004. Accessed Dec 2013. http://www.cwc.ca/documents/durability/DurabilityService_Life_E.pdf >

DC Commission on the Arts and Humanities . "FY2013 Cultural Facilities Projects Round 2 (CFP2)". 2013.

Kirby, Jefferey G. "Estimating the Life Expectancy of Facilities". National Technical Information Services April 1974.

Google Inc. "Google Map". Accessed 2013. https://www.google.com/maps.

Google Inc. "Google Earth" [Computer program]. Accessed 2013.

Autodesk Inc. "Weather Tool" [Computer program]. Accessed 2013.