



THE LIVING PROTOTYPE

PUBLIC BUILDING COMMISSION OF CHICAGO



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LETTER FROM THE CHAIRMAN & EXECUTIVE DIRECTOR

The vision of the Public Building Commission is a built environment in which function, beauty and sustainability are inherent to every community; where physical surroundings inspire and support achievement of the individual goals of those who live, work and visit Chicago and Cook County; and, where people gather to share the common values that truly build our communities.

The PBC routinely uses prototypes in the development of schools, libraries, firehouses, police stations and park fieldhouses. This approach is largely unique to Chicago and is attributed, in large part to, The Burnham Plan for the City of Chicago. The Burnham Plan implemented a regularized city grid and a logical distribution of utilities and infrastructure. With blocks nearly the same size and nominal topographic changes, prototype buildings can develop facilities with exemplary quality, cost and schedule control. Using this approach, the PBC is able to maintain parity among neighborhoods and enhance branding and identity for municipally-owned facilities.

The prototype strategy also allows for faster project delivery and lowered delivery cost. Prototypes can significantly

reduce time for site selection and acquisition, building design, and building permit approvals; and minimize the need for utility relocation. Savings are realized on both design and construction costs as well as total life cycle costs.

The prototypes described herein are meant to be flexible and adaptable. The PBC works with both the client agency and the community to bring forth unique design elements and environmental sustainability strategies that focus on adapting designs to each individual community.

The PBC has adopted a set of high standards that govern all construction and renovation projects. The Commission has developed prototypes to facilitate efficient land assembly and design, but their greater contribution is a standardized use of resource efficient technologies and best practices in every aspect of project development.


PBC Chairman


PBC Executive Director



INTRODUCTION

The PBC is uniquely able to deliver improvements to both capital and infrastructure to nearly every neighborhood and community area in the City of Chicago, Cook County and surrounding municipalities. Through the years, the PBC has committed and will continue to commit to adapting its prototype designs to incorporate new and innovative features that ensure that an investment in public facilities strengthen the city and lay the foundation for a strong and vital future for the City of Chicago and Cook County.

The PBC and its client agencies believe strongly in stewardship of the public fund and, as such, the PBC has developed policies and procedure that facilitate responsible capital development and ensure that public funds for project development are spent in the most effective and efficient way possible. One such strategy includes the implementation of prototype designs for schools, libraries, police stations, firehouses and park fieldhouses.

Prototypes are possible in the City of Chicago due to the Burnham Plan for the City of Chicago. Implemented over 100 years ago, the plan created a regularized city grid and a logical distribution of utilities and infrastructure. With blocks nearly the same size and

nominal topographic changes, prototype buildings can be developed with exemplary quality, cost and schedule control. Using this approach, the PBC is able to maintain parity among neighborhoods and enhance branding and identity for municipally-owned facilities.

The prototype strategy ensures the design of facilities for durability and ease of maintenance. We work with our clients to apply lessons learned from past experience of the end users and we continue to enhance and develop prototypes that also include an integrated approach to sustainability and innovative technology. For example, newer prototype designs include standard design features for aggressive stormwater management, the use of recycled materials, exemplary air quality and natural daylight.

The prototype strategy also allows for faster project delivery and lowered delivery costs. Prototypes can significantly reduce time for site selection and property acquisition, building design and building permit approvals; and minimize the need for utility relocation. Savings are realized on both design and construction costs as well as total life cycle costs.

CLIENT: CHICAGO PUBLIC SCHOOLS

The Chicago Public Schools (CPS) is committed to being the premier urban school district in the country by providing all students and their families with high quality instruction, outstanding academic programs, and comprehensive student development support to prepare them for the challenges of the world of tomorrow. That commitment includes providing the optimal learning environment, building educational capacity and choice in the system, using resources efficiently, and interacting positively with the communities in which CPS schools reside.

These commitments translate into the following goals for new construction:

- Inspiring Buildings – a built environment in which the school building supports curriculum development and inspires students to learn and explore
- Durable Buildings – high quality easily maintainable materials to last 100 years
- Healthy Buildings – maximizing student, staff and community exposure to well day lit spaces, good indoor air quality and acoustics
- Sustainable Buildings – minimum LEED Silver certification through the U.S. Green Building Council's rating system
- Community Focused Buildings – provide for use of buildings by members of the community
- Safe Buildings – provide secure learning environments
- Buildings Usable by All – employment of Universal Design principals to remove all barriers to teaching, learning, enjoying school buildings

Program Overview

Since the early 1900's prototypes have been used to foster the development of quality educational facilities that provide parity and comparable opportunity to students throughout Chicago's vibrant neighborhoods.

The current Modern Schools Across Chicago initiative, announced in late 2006 pursues an aggressive capital program that creates new school facilities and major renovation projects through an innovative funding strategy. The program is intended to further improve and expand educational capacity throughout the City, helping CPS to achieve its educational mission.

Additionally, these facilities are designed for community use on evenings and weekends-with independent access to gym, dining room and other specialty spaces. These schools also offer the ability to restrict access to parts of the building during evening and weekends.

It is truly an exciting time for improving the educational landscape throughout our City. The opportunities for the creation of exciting, cost effective, sustainable and durable buildings are boundless.



Safety & Security

- Area of Rescue Assistance buttons located in stairways to be used by handicapped persons who need emergency aid and monitored from the schools main entrance.
- First floor exterior windows outfitted with window guards for security.
- Windows on second and third floors have mechanism to restrict window opening.
- Fully sprinklered school buildings.
- Interior and exterior security cameras are mounted in corridors, gymnasiums, lunchrooms, and at the main entrance of each school. These cameras are Web-based compatible, and will one day allow for monitoring of each school from a remote location, such as the City's Office of Emergency Management & Communications.

Technology

- Each classroom has power and voice/data lines for computer usage.
- Wireless access throughout the school.

Environmental

- Vegetated green and reflective roofs.
- High-efficiency HVAC equipment.
- Occupancy sensors, dimmable lighting and daylight harvesting lighting controls in classrooms.
- Natural lighting throughout.
- Water-saving plumbing fixtures.
- Use of local, regional and recycled content building materials.
- Low VOC emitting building materials.
- Hand dryers installed to minimize paper waste.
- Low maintenance and native landscaping.

Durability & Sustainability

- Terrazzo floors designed to last the lifetime of the building.
- Virtually indestructible and easy-to-clean block walls.
- VCT flooring that is easier to maintain than carpeting.
- Long lasting structural glazed tile that is also easy to clean.
- Low maintenance sedum plantings on rooftop garden.
- Concrete paving and pavers which reduces heat island effect and lasts longer than asphalt.
- Minimum LEED Silver rating by the U.S. Green Building Council.

CLIENT: CHICAGO PUBLIC SCHOOLS:
Elementary Schools: 'L' Shaped Prototype



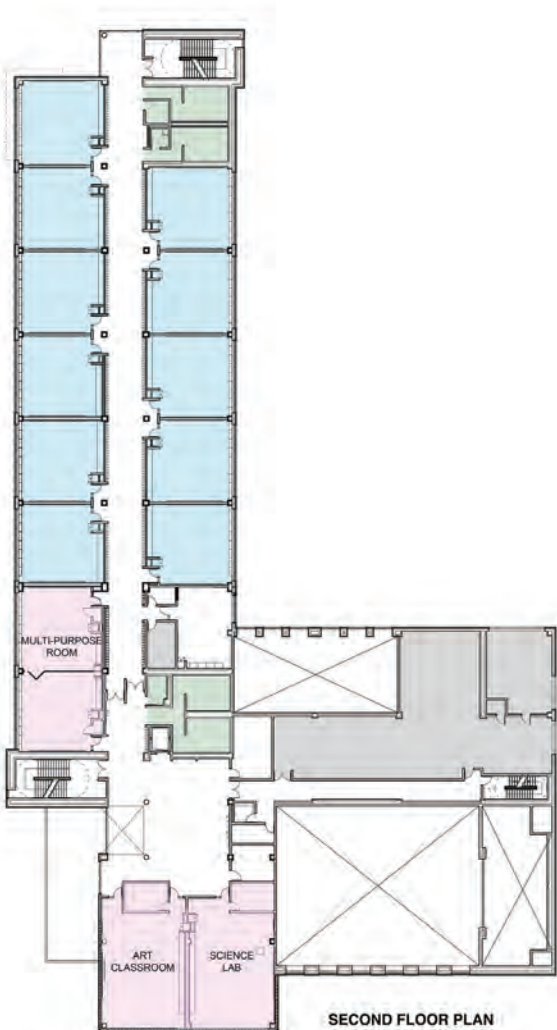
Building Features

- 105,000 Square Feet
- 3-story Steel Frame and Masonry Construction
- Capacity: 900 Students
- 6 Pre-K/Kindergarten Classrooms
- 24 Standard Academic Classrooms
- 2 Multipurpose Rooms
- 1 Computer Lab
- 1 Science Lab
- 1 Music Classroom
- 1 Art Classroom
- Gymnasium and Stage
- Kitchen and Dining Facilities
- Library/Media Resource Center
- Administrative Suite
- Nurse and Student Support Service
- State-of-the-art Computer Network
- Central Air Conditioning
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities

CLIENT: CHICAGO PUBLIC SCHOOLS:
Elementary Schools: 'L' Shaped Prototype

Special Provisions

- Designed for **Community Use** on evenings and weekends-with independent access to gym, dining room and other specialty spaces with the ability to restrict access to parts of the building during evening and weekends.



Safety & Security

- Area of Rescue Assistance buttons located in stairways to be used by handicapped persons who need emergency aid and monitored from the schools main entrance.
- First floor exterior windows outfitted with window guards for security.
- Windows on second and third floors have mechanism to restrict window opening.
- Fully sprinklered school buildings.
- Interior and exterior security cameras are mounted in corridors, gymnasiums, lunchrooms, and at the main entrance of each school. These cameras are Web-based compatible, and will one day allow for monitoring of each school from a remote location, such as the City's Office of Emergency Management & Communications.

Technology

- Each classroom has power and voice/data lines for computer usage.
- Wireless access throughout the school.

Environmental

- Vegetated green and reflective roofs.
- High-efficiency HVAC equipment.
- Occupancy sensors, dimmable lighting and daylight harvesting lighting controls in classrooms.
- Natural lighting throughout.
- Water saving plumbing fixtures.
- Use of local, regional and recycled content building materials.
- Low VOC emitting building materials.
- Hand dryers installed to minimize paper waste.
- Low maintenance and native landscaping.

Durability & Sustainability

- Terrazzo floors designed to last the lifetime of the building.
- Virtually indestructible and easy-to-clean block walls.
- VCT flooring that is easier to maintain than carpeting.
- Long lasting structural glazed tile that is also easy to clean.
- Low maintenance sedum plantings on rooftop garden.
- Concrete paving and pavers which reduces heat island effect and lasts longer than asphalt.
- Minimum LEED Silver rating by the U.S. Green Building Council.

CLIENT: CHICAGO PUBLIC SCHOOLS:
Elementary Schools: 'C' Shaped Prototype



Building Features

- 106,000 Square Feet
- 3-story Steel Frame and Masonry Construction
- Capacity: Min. 900 Students
- 6 Pre-K/Kindergarten Classrooms
- 24 Standard Academic Classrooms
- 2 Multipurpose Rooms
- 1 Computer Lab
- 1 Science Lab
- 1 Music Classroom
- 1 Art Classroom
- Gymnasium and Stage
- Kitchen and Dining Facilities
- Library/Media Resource Center
- Administrative Suite
- Nurse and Student Support Service
- State-of-the-art Computer Network
- Central Air Conditioning
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities

CLIENT: CHICAGO PUBLIC SCHOOLS:
Elementary Schools: 'C' Shaped Prototype

Special Provisions

- Designed for **Community Use** on evenings and weekends-with independent access to gym, dining room and other specialty spaces with the ability to restrict access to parts of the building during evening and weekends.



FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN

- Core Academic
- Media Center
- Arts
- Admin/Student Services
- Food Service
- Physical Education
- Building Services

Safety & Security

- Area of Rescue Assistance buttons located in stairways to be used by handicapped persons who need emergency aid and monitored from the schools main entrance.
- First floor exterior windows outfitted with window guards for security.
- Windows on second and third floors have mechanism to restrict window opening.
- Fully sprinklered school buildings.
- Interior and exterior security cameras are mounted in corridors, gymnasiums, lunchrooms, and at the main entrance of each school. These cameras are Web-based compatible, and will one day allow for monitoring of each school from a remote location, such as the City's Office of Emergency Management & Communications..

Technology

- Each classroom has power and voice/data lines for computer usage.
- Wireless access throughout the school.

CLIENT: CHICAGO PUBLIC SCHOOLS:
High Schools: Urban Model High School Prototype

Environmental

- Vegetated green and reflective roofs.
- High-efficiency HVAC equipment.
- Occupancy sensors, dimmable lighting and daylight harvesting lighting controls in classrooms.
- Natural lighting throughout.
- Electric vehicle recharging stations.
- Water efficient toilets, urinals and sinks.
- Use of local, regional and recycled content building materials.
- Low VOC emitting building materials.
- Hand dryers installed to minimize paper waste.
- Water saving pool filters.
- Low maintenance and native landscaping.

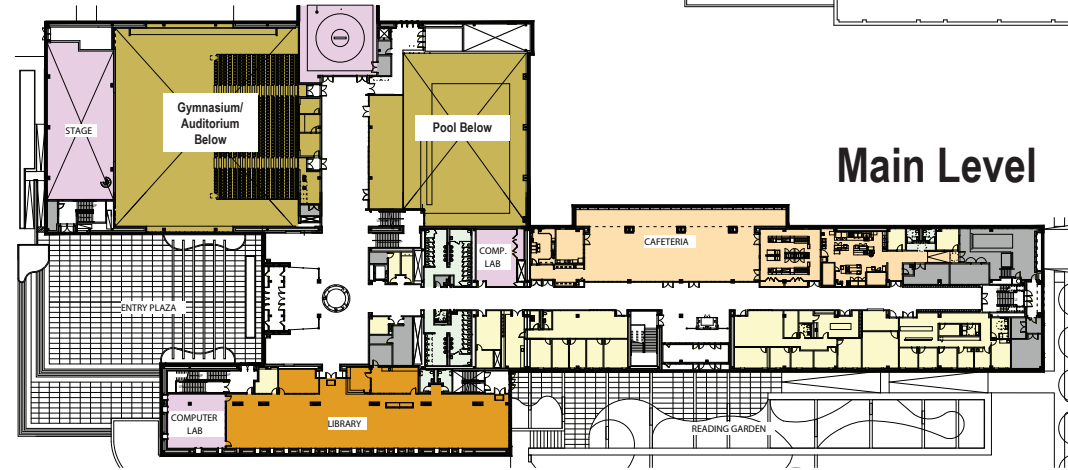
Durability & Sustainability

- Terrazzo floors designed to last the lifetime of the building.
- Virtually indestructible and easy-to-clean block walls.
- VCT flooring that is easier to maintain than carpeting.
- Long lasting structural glazed tile that is also easy to clean.
- Low maintenance sedum plantings on rooftop garden.
- Concrete paving and pavers which reduces heat island effect and lasts longer than asphalt.
- Minimum LEED Silver rating by the U.S. Green Building Council.

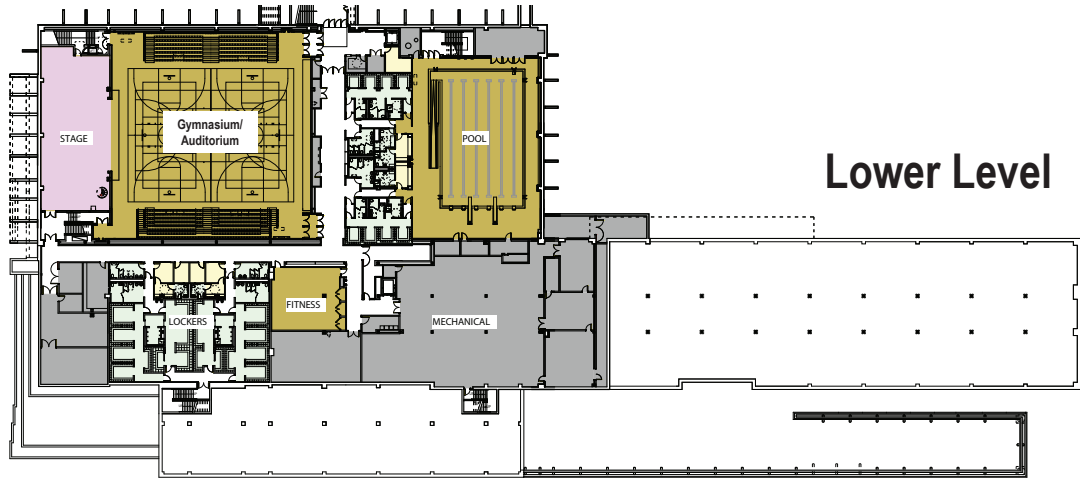


Building Features

- Steel Frame and Masonry Construction
- 209,000 Square Feet
- 3-floors plus lower level
- Capacity: Minimum 1200 Students
- 26 Standard Academic Classrooms
- 5 Computer Labs
- 6 Science Labs
- 2 Visual Arts Classrooms
- 2 Performing Arts Classrooms
- Distance Learning Lab (Video Teleconference)



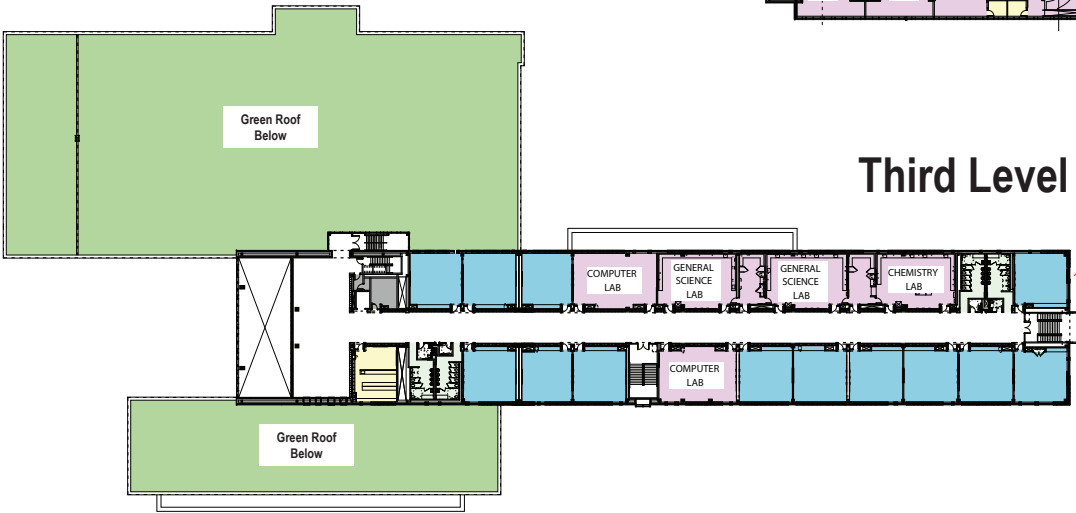
CLIENT: CHICAGO PUBLIC SCHOOLS:
High Schools: Urban Model High School Prototype



- Scene Shop, Dressing Room & Green Room
- College Resource Center
- Library/Media Resource Center
- Gymnasium (Two Station)
- Natatorium with 6 Lane Pool
- Fitness/Weight Room
- Administrative Suite
- Nurse and Student Support Service
- Kitchen and Dining Facilities
- State-of-the-art Computer Network
- Central Air Conditioning
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities

Special Provisions

- Designed for **Community Use** on evenings and weekends-separate, independent entrances for both library and arts wing as well as the athletic wing that includes dedicated storage and spaces for the Chicago Park District.



Core Academic	
Library	
Specialty/Arts	
Admin/Student Services	
Food Service	
Physical Education	
Building Services	
Toilets/Lockerrooms	
Green Roof	

The current addition prototype was developed by the Public Building Commission in partnership with Chicago Public Schools as a cost-effective, sustainable alternative, historically employed at schools that have experienced overcrowding. The addition prototype concept provides expanded program space for 10-12 classrooms and through the use of high quality, durable materials is designed for a life cycle expectation of over 100 years. The design has the optional capability for a science classroom, dining room and kitchen. The two-story design also incorporates environmental sustainability features including a green roof, durable materials, natural light and views, water use reduction measures, stormwater management and native and adaptive landscaping.

CLIENT:
CHICAGO PUBLIC SCHOOLS:
Addition Prototype



The Public Building Commission in partnership with Chicago Public Schools developed a Linked Annex prototype as a cost-effective, sustainable alternative to leased mobile classrooms historically employed at schools that have experienced overcrowding. Additionally, this prototype offers expedited delivery and a life cycle expectation of over 50 years. The Linked Annex is a flexible prototype concept that provides expanded program space for 6-12 classrooms and a contiguous weather-protected connection to the existing building. The design has the optional capability for a multi-purpose or dining room and kitchen. Both single and two-story prototypes accommodate varying site constraints and site-specific program objectives. The prominent visual design feature is a butterfly wing roof which provides a dynamic appearance, visually conceals roof equipment, mitigates rooftop equipment sound, and can accommodate exterior day-lighting options by shielding parts of the building from solar heat gain.

CLIENT:
CHICAGO PUBLIC SCHOOLS:
Linked Annex Prototype



The new Ogden International School of Chicago replaces an existing school in a downtown neighborhood that had outgrown its existing facility. Bound by State Street to the east, Dearborn to the west, Oak to the north, and Walton to the south, the urban site, atypically sized Chicago lot would not accommodate an “L” or “C” prototype design with a surface parking lot. To accommodate this 900-student population, a hybrid design was developed from the same kit of parts in the “L” and “C” prototype designs. The school’s program components, finishes and spatial considerations are comparable to other prototype designs but in a high density plan. Unlike other schools and because of its unique location in a dense urban area, this school plan incorporated a single-level basement garage and a vegetated roof with accessible walkways and a rooftop learning garden.

CLIENT:
CHICAGO PUBLIC SCHOOLS:
High Density
Elementary School



The Jones College Preparatory High School design implements the same programmatic components of the Urban Model High School prototype, a prototypical kit of parts. The school’s program components, finishes and spatial considerations are comparable to the Urban Model High School prototype yet on a dense urban site.

Project features include, general classrooms, science labs, world language/computer classrooms, art classrooms, music classrooms, administrative suite, nurses/student services suite, student dining area with servery and full cooking kitchen, multipurpose room, library, gymnasium, natatorium, separate auditorium, and building support spaces along with below grade parking.

CLIENT:
CHICAGO PUBLIC SCHOOLS:
High Density
High School

CLIENT: CHICAGO FIRE DEPARTMENT

The Chicago Fire Department (CFD) is committed to being the premier fire fighting program in the country by providing fire fighters and paramedics, outstanding state-of-the-art facilities to prepare them for the challenges of saving lives and protecting property today and in the world of tomorrow.

That commitment includes providing the optimal building environment, using resources efficiently, and interacting positively with the communities which CFD serves.

These commitments translate into the following goals for new construction:

- Inspiring Buildings – a built environment in which the firehouse building supports the firefighters and first responders with opportunities to improve physical health and well-being and emergency response times
- Durable Buildings – high quality easily maintainable materials to last 100 years
- Healthy Buildings – maximizing staff and community exposure to well day lit spaces, good indoor air quality and acoustics
- Sustainable Buildings – minimum LEED Silver certification through the U.S. Green Building Council's rating system
- Community Focused Buildings – provide for use of buildings by members of the community
- Safe Buildings – provide secure training environments
- Buildings Usable by All – employment of Universal Design principals to remove all barriers to teaching, learning, enjoying buildings

Program Overview

In order to alleviate deteriorating Firehouses, the Chicago Fire Department Capital Improvement Program was created in 1996 and since then has delivered high quality, maintainable buildings. As part of the evolution of the planning and design of these buildings over the last eleven years, the Public Building Commission has developed prototype designs for engine companies, in partnership with the CFD. Firehouse prototype designs are invested with design principles that embrace all goals for new construction projects, and offer a means to deliver projects in the most efficient, cost effective manner.

The PBC is committed to improving firehouses throughout our City. As these facilities embody the spirit of service for each man and woman who becomes a firefighter or first responder. The new firehouse prototypes use a modern design to offer better living quarters, advanced training options and office workspace for officers. The PBC provides firefighters the latest in technology, enhancing quick response to various types of emergencies within the communities they serve.



Safety & Security

- One-story floor plan containing no fire pole. This design is safer for firefighters, responding quickly to a fire call, as there is no longer a hazard of tripping or falling down stairs or pole-related accidents. The one-story design has also led to faster response times.
- Six cameras mounted on the corners of the station to monitor the parking lot, as well as the ingress and egress of individuals and vehicles.
- A circular driveway creates a safer environment for maneuvering fire trucks, fire engines and ambulances in and out of the station.

Education & Training

- Video conferencing capabilities are available to staff.
- On-site classroom with desks and dry-erase boards are included in each station.
- Fire stations with Satellite Training Centers house two large classrooms and an outdoor training pad for driving instruction and allow fire personnel to practice fire hose drills with hydrants.

Environmental

- Water efficient toilets, urinals and sinks.
- 50% of rooftops to be “green,” or vegetative.
- Renewable energy features such as solar thermal water heating or geothermal heat exchange for primary building heating and cooling.
- Regionally manufactured and recycled content building materials.
- Landscape and pavement features to help manage stormwater.
- Light colored roof and pavements to reduce heat island effect.

Smart-Building Concepts

- The infrastructure is in place to tie all newly-constructed fire stations into the Global Building Monitoring System. This system is managed by the City’s Department of Fleet and Facilities Management (2FM). 2FM monitors the station’s HVAC system from a remote location. This system also eliminates the need for an engineer to be located at an individual site.
- Lighting, irrigation systems, and clocks are all on sensors or timers and programmable through the Building Automation System.
- Emergency diesel generators are installed in the fire stations. If the power fails, the emergency generator switches on immediately ensuring emergency class will not be dropped.
- LEED Gold rating by the U.S. Green Building Council.

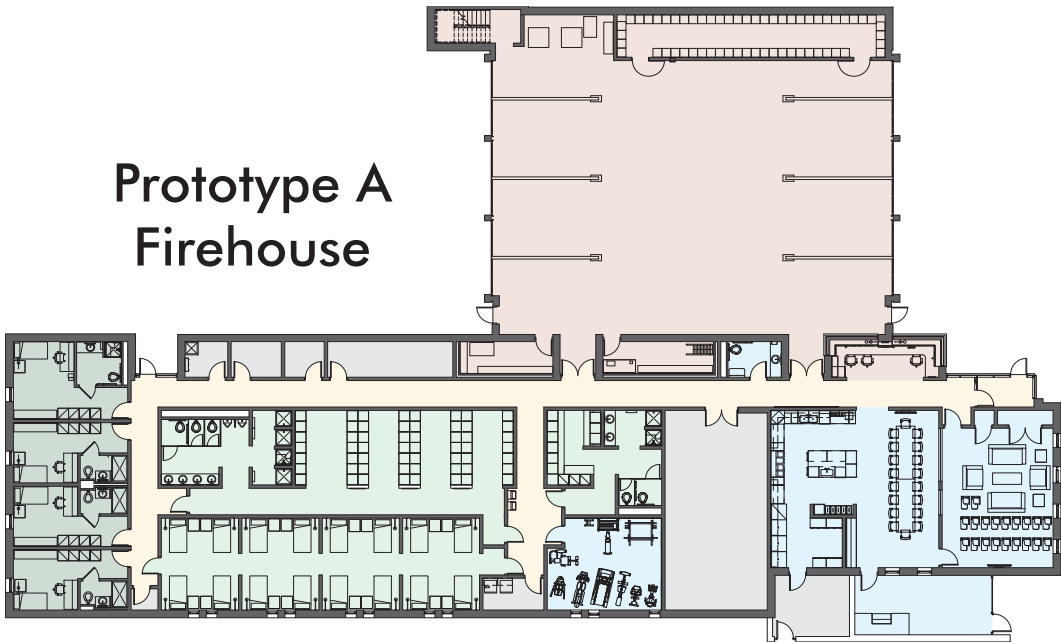


CLIENT: CHICAGO FIRE DEPARTMENT:
Firehouse: Prototypes A & B

Building Features

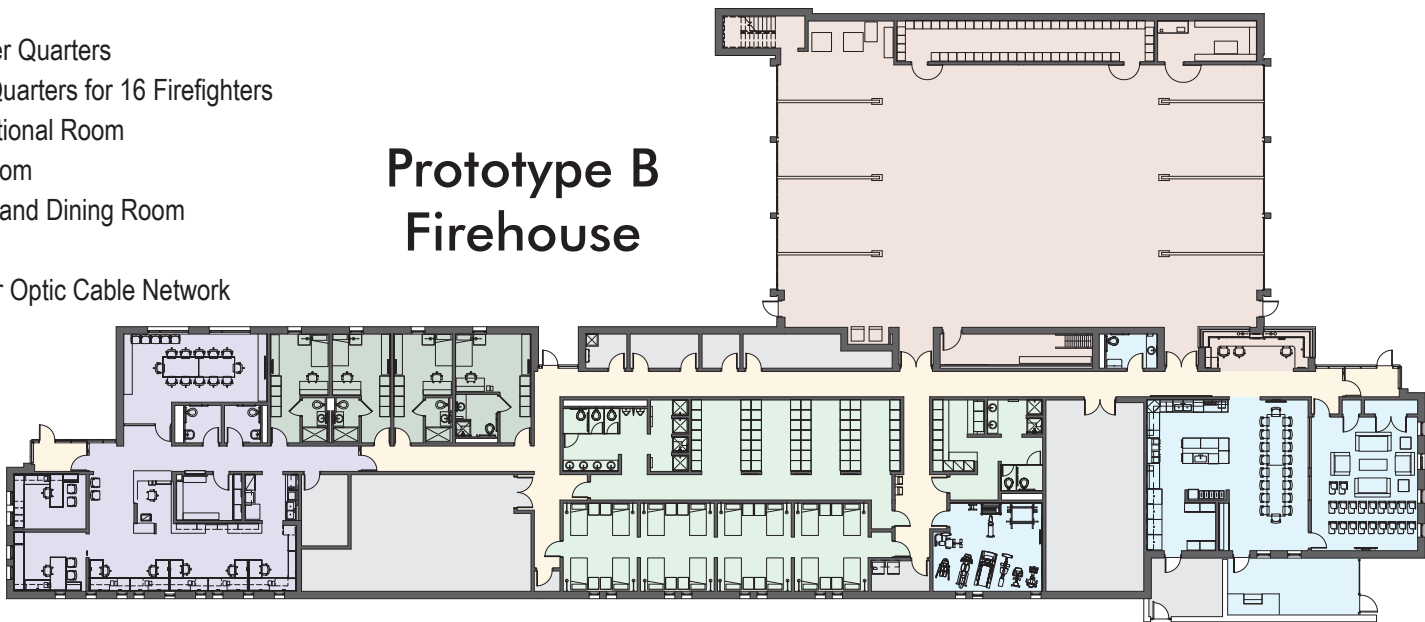
- 14,611 Square Feet
- Load Bearing Masonry with Exterior Finish Brick
- 3-Bay Apparatus Bay, Equipped to House Multiple Emergency Response Vehicles
- Communication Tower
- Hose Tower
- Watch Tower
- Four Separate Officer Quarters
- Separate Sleeping Quarters for 16 Firefighters
- Staff Training/Educational Room
- Physical Training Room
- Full Service Kitchen and Dining Room
- Locker Rooms
- State-of-the-art Fiber Optic Cable Network
- Recycling Area
- Geothermal Heat Exchange System
- Natural Gas-Powered Emergency Generator
- Vehicle Exhaust Extraction System
- Durable Materials for Ease of cleaning and maintenance (E.g. Burnish Block Walls and Terrazzo Flooring)

CLIENT: CHICAGO FIRE DEPARTMENT:
Firehouse: Prototypes A & B



Building Features

- 19,725 Square Feet
- Load Bearing Masonry with Exterior Finish Brick
- 3-Bay Apparatus Bay, Equipped to House Multiple Emergency Response Vehicles
- Communication Tower
- District Office
- Hose Tower
- Watch Tower
- Four Separate Officer Quarters
- Separate Sleeping Quarters for 16 Firefighters
- Staff Training/Educational Room
- Physical Training Room
- Full Service Kitchen and Dining Room
- Locker Rooms
- State-of-the-art Fiber Optic Cable Network
- Recycling Area
- Geothermal Heat Exchange System
- Natural Gas-Powered Emergency Generator
- Vehicle Exhaust Extraction System
- Durable Materials for Ease of cleaning and maintenance (E.g. Burnish Block Walls and Terrazzo Flooring)



CLIENT: CHICAGO PUBLIC LIBRARY

Since first opening its doors to the public in 1873, the Chicago Public Library has maintained its status of one of the City's most democratic of institutions — providing all Chicagoans with a free and open place to gather, learn, connect, read and be transformed.

The 79 locations of the Chicago Public Library are at the forefront of providing innovative library services, technologies and tools Chicagoans need to achieve their personal goals and to establish the City's role as a competitive force in the global marketplace. Since 1989, the City of Chicago and the Chicago Public Library have opened 52 new or renovated neighborhood libraries — unprecedented public library growth. These new libraries are that special third place — beyond home and work — where people come to improve their lives, nourish their intellect or simply to be entertained. The library is where people of all ages and backgrounds gather freely. Through its rich and current book collections, state of the art technology and cultural and public partnerships, the Chicago Public Library is a thriving, engaged leader in Chicago's diverse neighborhoods.

Although the Chicago Public Library has changed dramatically since its beginnings in an abandoned water tower after the Great Chicago Fire, its mission has remained constant:

"We welcome and support all people in their enjoyment of reading and lifelong learning. Working together, we strive to provide equal access to information, ideas and knowledge through books, programs and other resources. We believe in the freedom to read, to learn, to discover."

This mission translates into the following goals for new construction:

- Inspiring Buildings – a built environment in which the branch library building supports a love of reading and lifelong learning
- Durable Buildings – high quality easily maintainable materials to last 100 years
- Healthy Buildings – maximizing staff and community exposure to natural daylight, good indoor air quality and acoustics
- Sustainable Buildings – minimum LEED Silver certification through the U.S. Green Building Council's rating system
- Community Focused Buildings – provide for use of the buildings by members of the community
- Safe Buildings – provide secure reading and research environments
- Buildings Usable by All – employment of Universal Design principals to remove all barriers to use of the buildings



Safety & Security

- Well-lit building exteriors and on-site parking for safety of patrons.
- Circulation counter is conveniently located to allow for improved monitoring of book collections and other public areas.

Environmental

- Reflective roofing, landscaping, and exterior site design that work in conjunction to reduce the urban heat island effect.
- Storm water management through permeable pavers, green roof and landscape features such as bioswales.
- Radiant floors in reading rooms for efficient heat delivery at “comfort zones”.
- Daylight harvesting lighting controls.
- Water efficient plumbing fixtures.
- Purchase of “green” power-100% renewable wind energy.
- Use of locally and regionally manufactured and recycled content materials.
- Geothermal heat exchange system for heating and cooling.
- Minimum LEED Gold rating by the U.S. Green Building Council.

CLIENT: CHICAGO PUBLIC LIBRARY:
Library Branch: Small, Large & 2-Story Prototypes

Smart-Building Concepts

- Lighting and irrigation systems are on timers and programmable through the Building Automation System.
- Dimming control system for lighting.
- The infrastructure is in place to tie all newly constructed libraries into the Global Building Monitoring System. This system is managed by the City’s Department of Fleet and Facilities Management (2FM). 2FM monitors the library’s HVAC system from a remote location. This system also eliminates the need for an engineer to be located at an individual site.

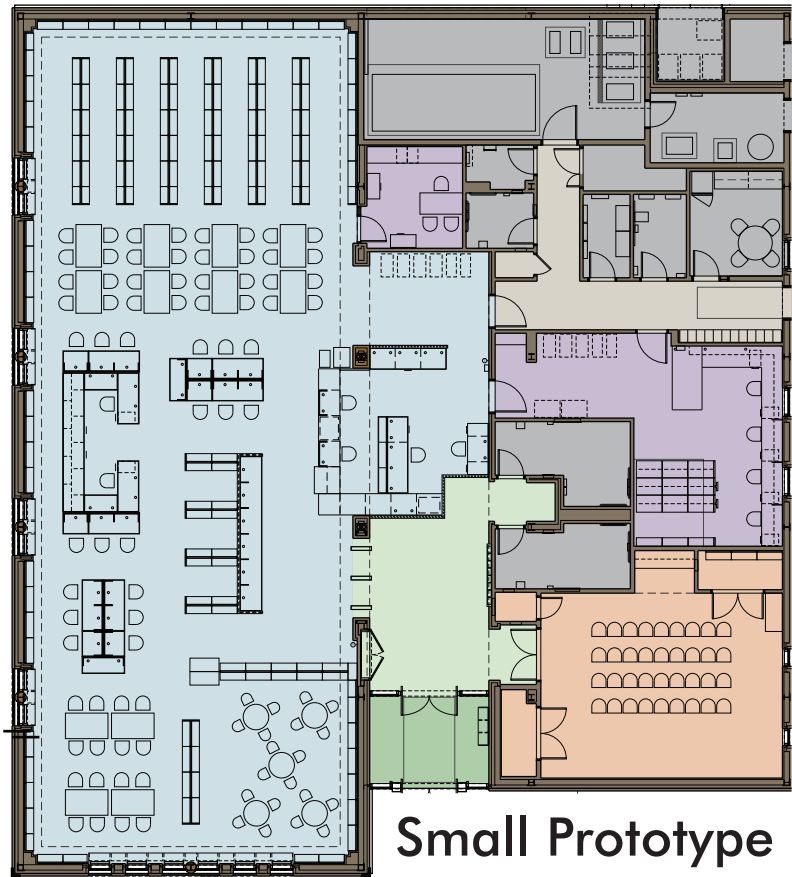
Community Friendly Features

- Easily accessible community room that can be used for large meetings and or functions, and divisible (only at the large one-story and the two-story) into smaller spaces for classroom use or smaller meetings.
- Reading gardens where site permits.
- Family and child-oriented programming provided by Chicago Public Library, with compatible equipment, furniture and spaces.



Building Features

- 8,900 Square Feet
- One story steel framed building with non-load bearing masonry cavity. Exterior faced with a brick and cast stone veneer
- On-site parking for 10 vehicles (one for handicapped patrons)
- Low maintenance and irrigated native and adaptive plant species throughout landscaping
- A variable heating and cooling system
- High-efficiency boilers/geothermal system
- Combination of recycled rubber and terrazzo floor coverings
- Physically accessible throughout for wheel chair patrons
- Seating Capacity – 144
- Book Capacity – 40,000 volumes
- Multipurpose Room – Seating capacity: 35 patrons
- Underfloor Technology System – For extensive use of electronic technology
- 20 Computers (Internet access, online and computer reference databases)



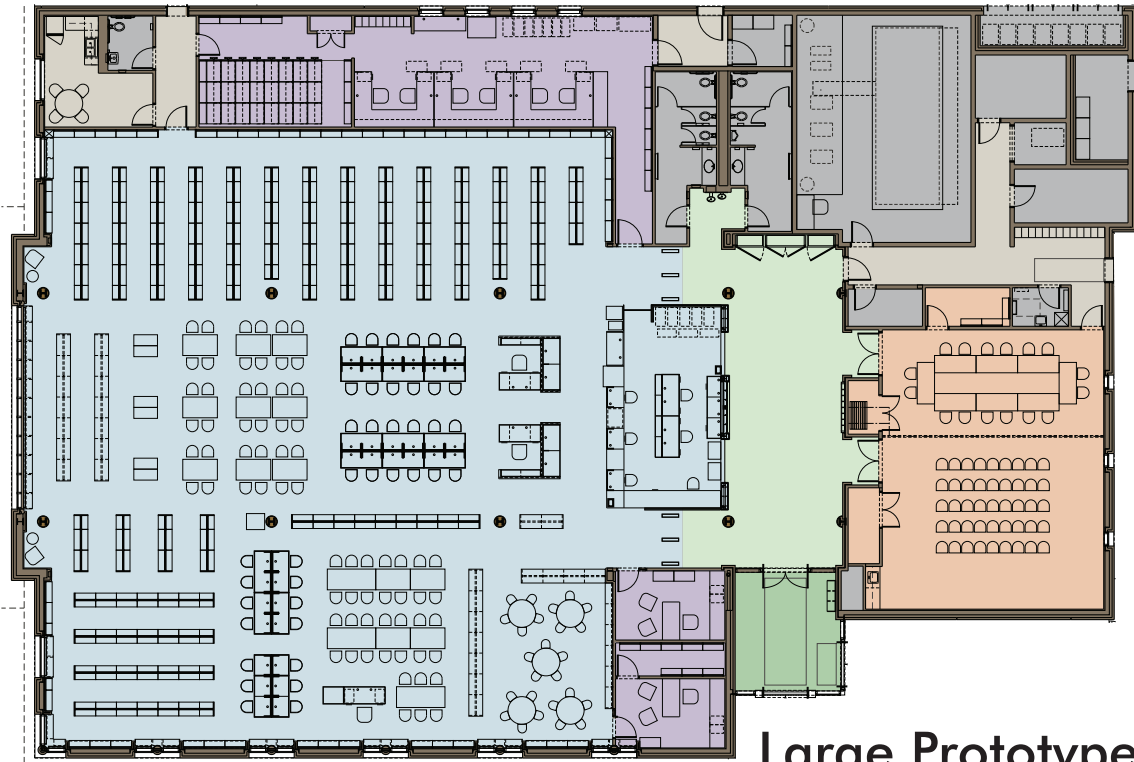
Small Prototype
Library Branch

CLIENT: CHICAGO PUBLIC LIBRARY:

Library Branch: Small, Large & 2-Story Prototypes

Building Features

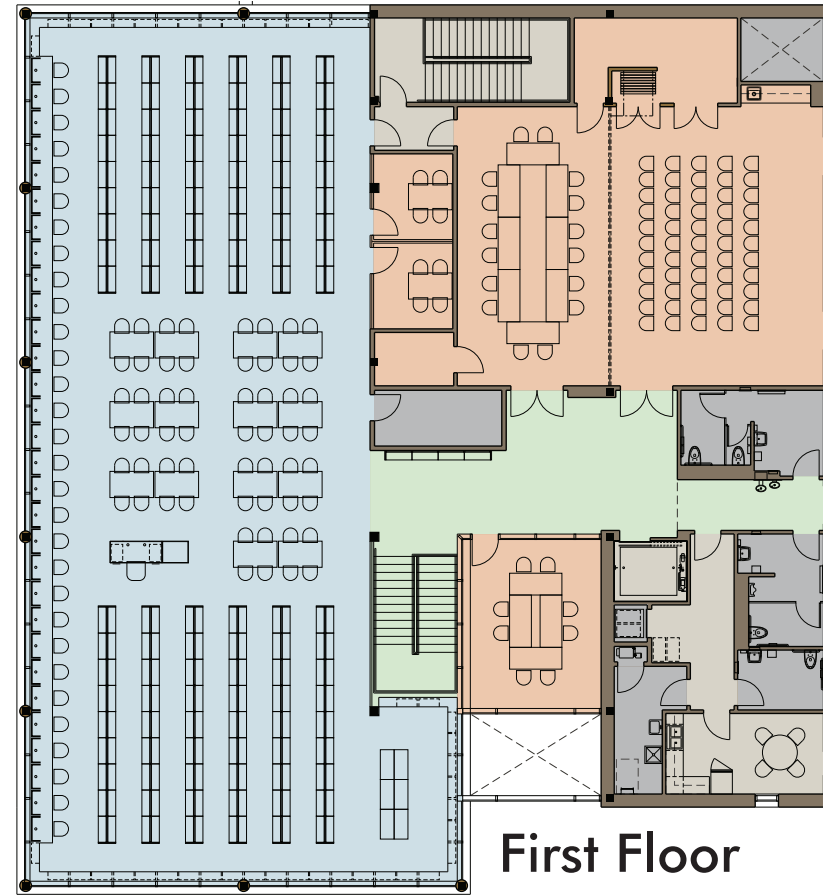
- 16,300 Square Feet
- One story steel framed building with bearing and non-load bearing masonry cavity. Exterior faced with a brick and cast stone veneer
- On-site parking for 16 vehicles (one for handicapped patrons)
- Low maintenance and irrigated native and adaptive plant species throughout landscaping
- A variable heating and cooling system
- High-efficiency boilers/geothermal system
- Combination of recycled rubber and terrazzo floor coverings
- Physically accessible throughout for wheel chair patrons
- Seating Capacity – 144
- Book Capacity – 45,000 volumes
- Multipurpose Room – Seating capacity: 70 patrons
- Underfloor Technology System – For extensive use of electronic technology
- 32 Computers (Internet access, online and computer reference databases)



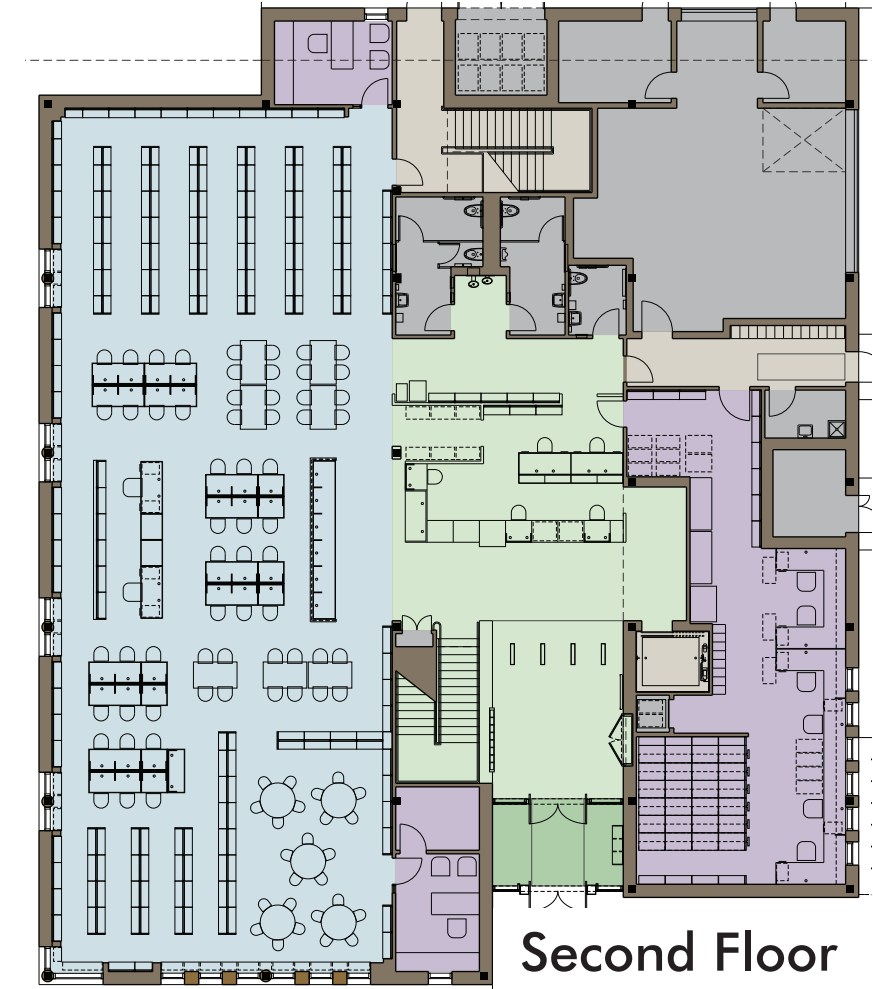
Large Prototype
Library Branch

Building Features

- 16,300 Square Feet
- Two story steel framed building with bearing and non-bearing masonry cavity. Exterior faced with a brick and cast stone veneer
- On-site parking (one for handicapped patrons)
- Low maintenance and irrigated native and adaptive plant species throughout landscaping
- A variable heating and cooling system
- High-efficiency boilers/geothermal system
- Combination of recycled rubber and terrazzo floor coverings
- Physically accessible throughout for wheel chair patrons
- Seating Capacity –267
- Book Capacity – 50,000 volumes
- Multipurpose Room – Seating capacity: 68 patrons
- Underfloor Technology System – For extensive use of electronic technology
- 62 Computers (Internet access, online and computer reference databases)



2-Story Prototype Library Branch



CLIENT: CHICAGO PUBLIC LIBRARY:

Library Branch: Small, Large & 2-Story Prototypes

CLIENT: CHICAGO POLICE DEPARTMENT

The Chicago Police Department (CPD) is the principal law enforcement agency of the City of Chicago, Illinois, in the United States, under the jurisdiction of the city mayor. It is the largest police department in the Midwest and the second largest in the United States after the New York City Police Department with over 13,400 sworn officers and over 1,850 other employees. Dating back to 1837, the CPD is one of the oldest modern police forces in the world.

These commitments translate into the following goals for new construction:

- Inspiring Buildings – a built environment in which the building fosters partnership between the police force and the community they serve by balancing the needs for security with openness
- Durable Buildings – high quality easily maintainable materials to last 100 years
- Healthy Buildings – maximizing staff and community exposure to natural daylight, good indoor air quality and acoustics
- Sustainable Buildings – minimum LEED Silver certification through the U.S. Green Building Council's rating system
- Community Focused Buildings – provide for use of the buildings by members of the community
- Safe Buildings – provide secure reading and research environments
- Buildings Usable by All – employment of Universal Design principals to remove all barriers to use of the buildings

Program Overview

In partnership with the Chicago Police Department, the Public Building Commission builds new police stations in communities across the City of Chicago. The new facilities, replacing outdated stations that in many cases are 50, 70 or 100 years old, feature the most up-to-date technology available while helping officers delivery outstanding service to the communities they protect and serve.

The new stations use a prototype design, with 44,000 square feet incorporated into a layout that offers open floor plans and inviting interiors, as well as community meeting spaces and neighborhood relations offices. Not only does the design control costs and streamline the building process, it delivers a police station that can serve as a cornerstone of the community, attractive and inviting to residents, and comfortable and efficient to officers.

The sweeping glass entry sequence and welcoming atrium signify the critical partnership between the police force and the community they serve.



Safety & Security

- Electronic security consoles installed to monitor the ingress and egress of individuals and activities within the secured and public areas of the building.
- Cameras mounted on exterior of building to monitor the parking lots and all entrances and exits.
- Separate entrance for prisoners to keep them apart from the public.
- Secure viewing and line-up room to protect the identity of crime victims and witnesses, while allowing for the identification of alleged offenders.

Technology

- State-of-the-art fiber optics network installed for faster, more efficient 911 communications, telephone systems, computer networking and cable connections.
- High-tech roll call room in each station with video wall containing four 40-inch diagonal screens for use in roll call sessions, meetings and software training. The video wall can support simultaneous feeds from three different computers and from remote locations.
- District Commander's office is equipped for meetings of 8-10 people, and has video conferencing, video surveillance equipment and windows that allow for viewing of the station's lobby, Roll Call room and Watch Commander's office.

CLIENT: CHICAGO POLICE DEPARTMENT: District Police Station: Prototype Facility

Environmental

- Green and reflective roofing and exterior concrete that work to reduce the urban heat island effect.
- Durable and low-maintenance locally and regionally produced and recycled content building materials.
- Electric vehicle recharging stations.
- Light pollution reduction.
- Water efficient landscaping which helps manage stormwater.
- Water saving plumbing fixtures.
- Locally manufactured building materials.
- Geothermal heat exchange system or microturbines for clean heat and power cogeneration.
- Minimum LEED Gold rating by the U.S. Green Building Council.

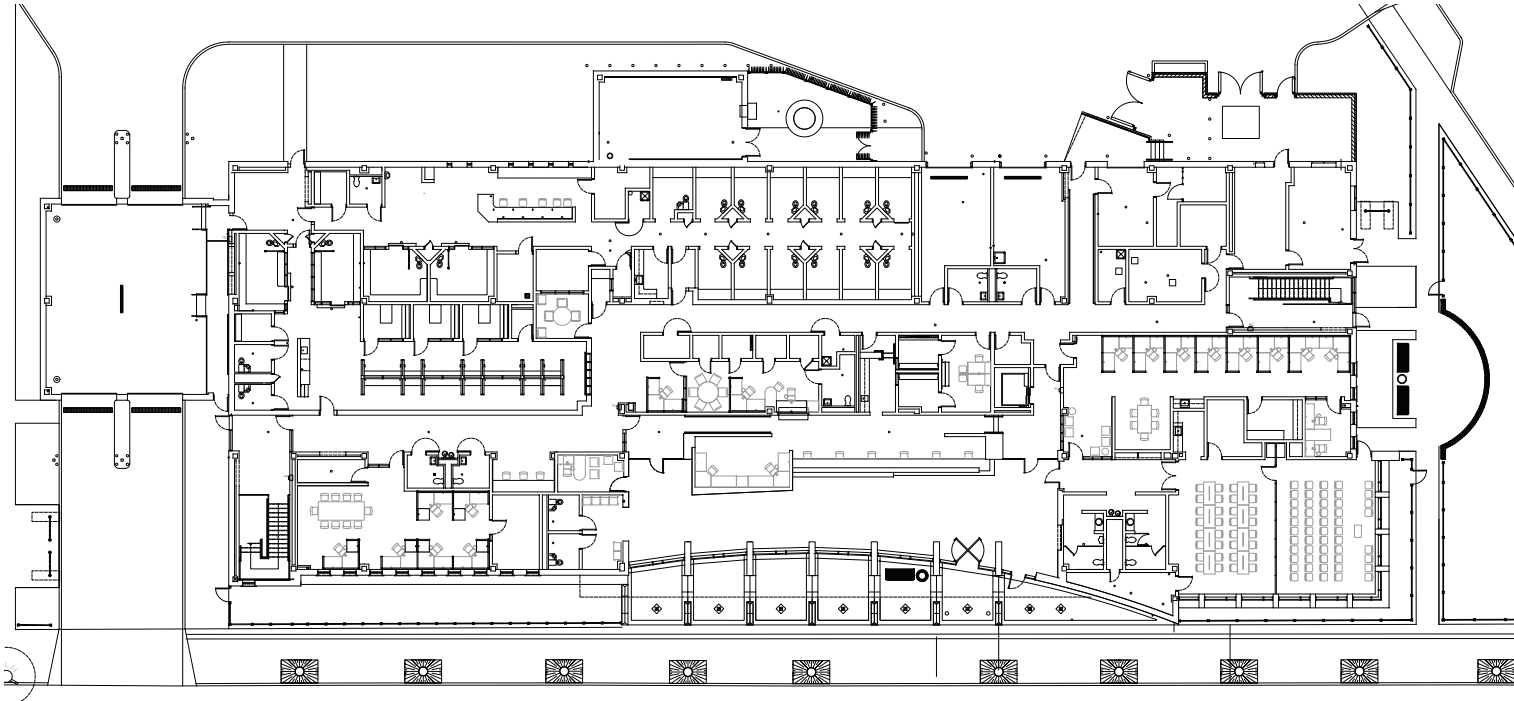
Smart-Building Concepts

- The infrastructure is in place to tie all newly constructed police stations into the Global Building Monitoring System. This system is managed by the City's Department of Fleet and Facilities Management (2FM). 2FM monitors the station's HVAC system from a remote location. This system also eliminates the need for an engineer to be located at an individual site.
- Lighting, irrigation systems and clocks are all on sensors or timers and programmable through the Building Automation System.

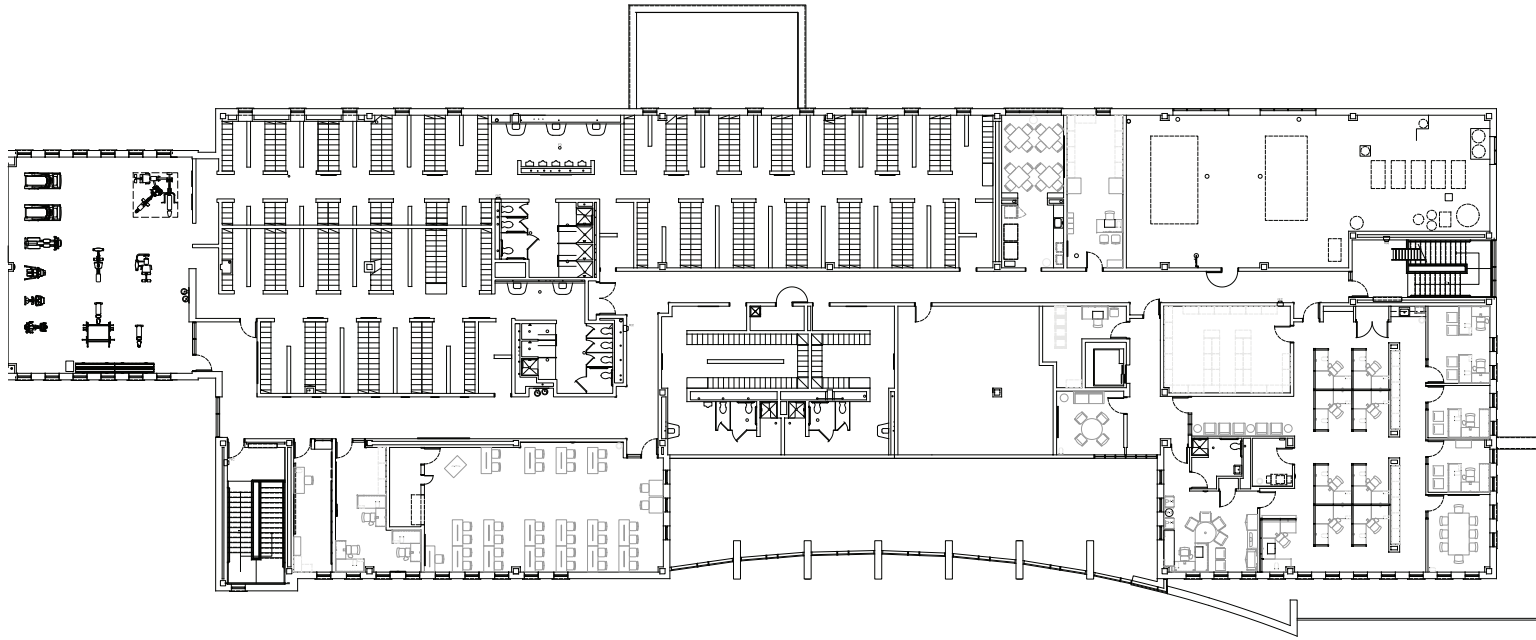


Building Features

- 44,000 Square Feet
- Load Bearing Masonry with Exterior Finish Brick
- Durable Materials for Ease of cleaning and maintenance
(E.g. Burnish Block Walls and Terrazzo Flooring)
- Community Room to accommodate group functions, such as Chicago Alternative Policing Strategy (CAPS) meetings, with seating capacity for more than 100
- Secure Viewing and Line-Up Rooms
- High-tech Roll Call Room with large video screens
- Physical Fitness Room
- State-of-the-art Fiber Optic Cable Network
- Cameras mounted on exterior to monitor parking lots and all access/egress points
- “Quiet Room” for traumatic incident counseling
- Locker Facilities
- Warming/Cooling Station Capabilities



First Floor



Second Floor

CLIENT: CHICAGO POLICE DEPARTMENT:
District Police Station: Prototype Facility

CLIENT: CHICAGO PARK DISTRICT

The Chicago Park District is committed to creating great parks that encourage the citizens of Chicago to “come out and play”. The Chicago Park District provides facilities that encourage physical activity by creating an open, fully accessible park system. Everyone, regardless of age or physical ability is entitled to equal access to Chicago’s parks. As trusted stewards of Chicago’s natural environment, we implement programs and responsible practices to preserve our parks for future generations.

That commitment includes providing the optimal building environment, using resources efficiently, and interacting positively with the communities which the Park District serves.

These commitments translate into the following goals for new construction:

- Inspiring Buildings – a built environment in which the park fieldhouse supports diverse programming and the physical well-being of the communities they serve
- Durable Buildings – high quality easily maintainable materials to last 100 years
- Healthy Buildings – maximizing staff and community exposure to natural daylight, good indoor air quality and acoustics
- Sustainable Buildings – minimum LEED Silver certification through the U.S. Green Building Council’s rating system
- Community Focused Buildings – provide for use of the buildings by members of the community

- Safe Buildings – provide secure reading and research environments
- Buildings Usable by All – employment of Universal Design principals to remove all barriers to use of the buildings

Program Overview

Across the city, the Public Building Commission and the Chicago Park District have joined together to increase and enhance the settings where residents can exercise, frolic, gather or just relax. With the construction of new Park District fieldhouses and improvements to existing facilities, Chicagoans have a wealth of options when looking for a place to play.

The PBC continues to design, build, update, or enhance parks or structures to better serve residents. New facilities with gymnasias, fitness centers and meeting rooms have been completed or are planned for. Two new prototypes have been developed to facilitate efficient project development.

As a result, the Park District offers parks and facilities that are able to accommodate more residents of all ages, while introducing new programming and activities, such as concerts and fitness classes.



Safety & Security

- Well-lit building exteriors and on-site parking for safety of patrons.

Environmental

- Reflective roofing, landscaping, and exterior site design that work in conjunction to reduce the urban heat island effect.
- Rainwater harvesting for landscape irrigation and to flush toilets within the building.
- Optimized building performance.
- Use of materials with high recycled content, often manufactured locally.
- Geothermal heat exchange system.
- Minimum LEED Gold rating by the U.S. Green Building Council.

Smart-Building Concepts

- Lighting systems are on timers and programmable through the Building Automation System.
- Dimming control system for lighting.
- The infrastructure is in place to tie all newly-constructed libraries into the Global Building Monitoring System. This system is managed by the City's Department of Fleet and Facilities Management (2FM). 2FM controls the library's HVAC system from a remote location. This system also eliminates the need for an engineer to be located at an individual site.

Community Friendly Features

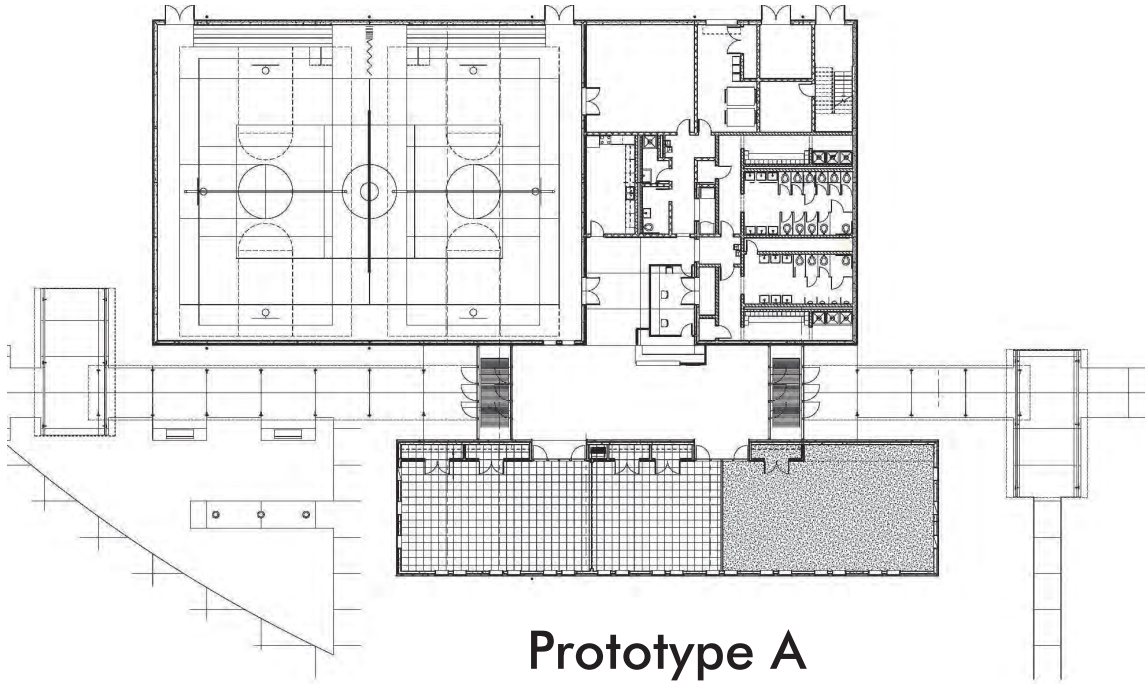
- Easily accessible community room that can be used for large meetings and or functions, and divisible into smaller spaces (at prototype A) for classroom use or smaller meetings.
- Gymnasium and fitness rooms and locker rooms for community use.

CLIENT: CHICAGO PARK DISTRICT:
Fieldhouse: Prototypes A & B



Building Features

- 18,500 Square Feet
- Pre-Cast Concrete Construction
- Competition-size Gymnasium
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities
- Fitness Room
- Divisible Club Rooms
- Locker Rooms
- Administrative Support Offices
- Central Air Conditioning
- Fully Accessible to People with Disabilities
- Geothermal Ground Source Heat Exchange System
- Durable Materials

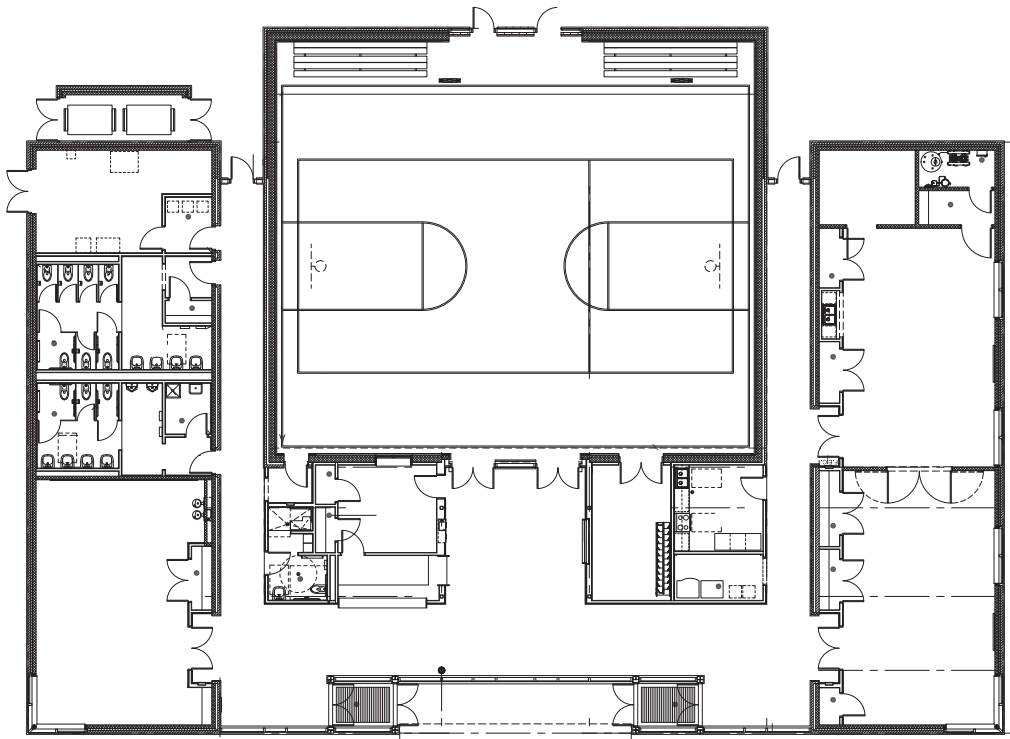


Prototype A
Fieldhouse

CLIENT: CHICAGO PARK DISTRICT:
Fieldhouse: Prototypes A & B

Building Features

- 10,244 Square Feet
- Single-story
- Steel Frame and Masonry Construction
- Fully Commissioned Building Automation System
- Fully Accessible to People With Disabilities
- Gymnasium
 - Basketball and Volleyball Striping
- Fitness Room
- Club Rooms
- Administrative Support Offices
- Rainwater Harvesting System
- Geothermal Ground Source Heat Exchange System
- Durable Materials
- Natural Ventilation System with Central Air Conditioning when needed



Prototype B
Fieldhouse



Mayor Rahm Emanuel, Chairman

Erin Lavin Cabonargi, Executive Director

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