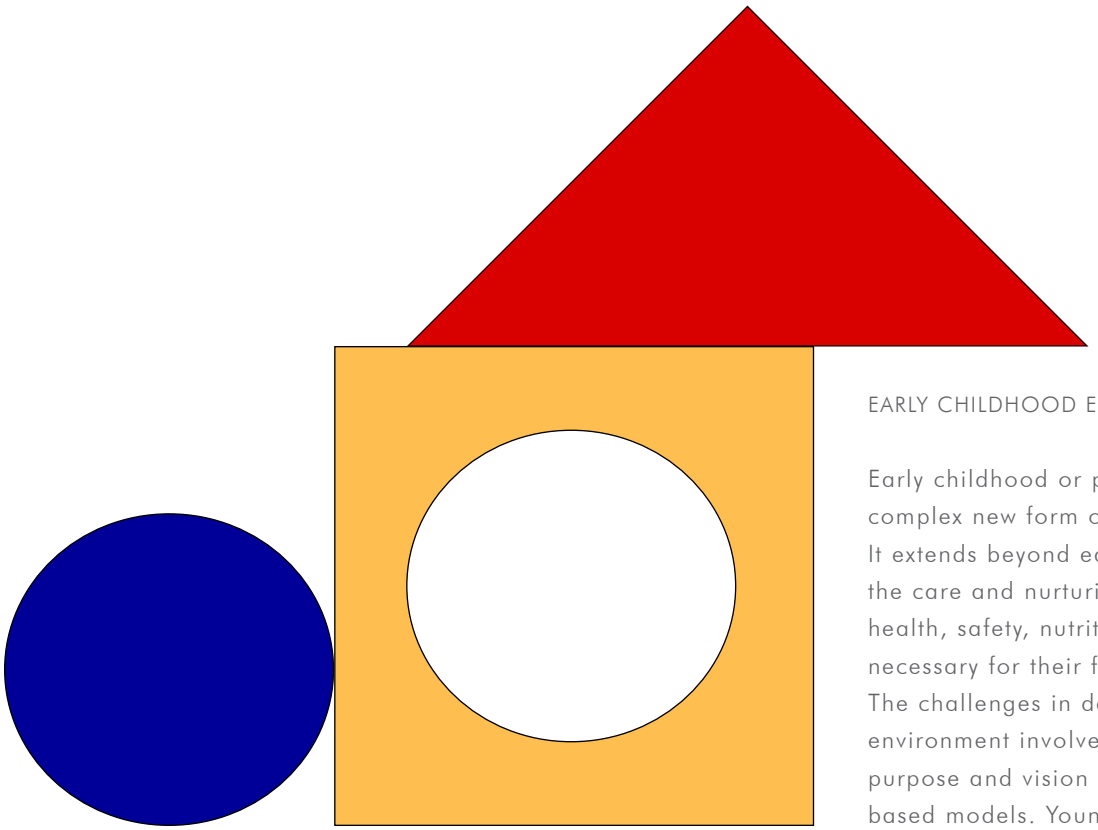
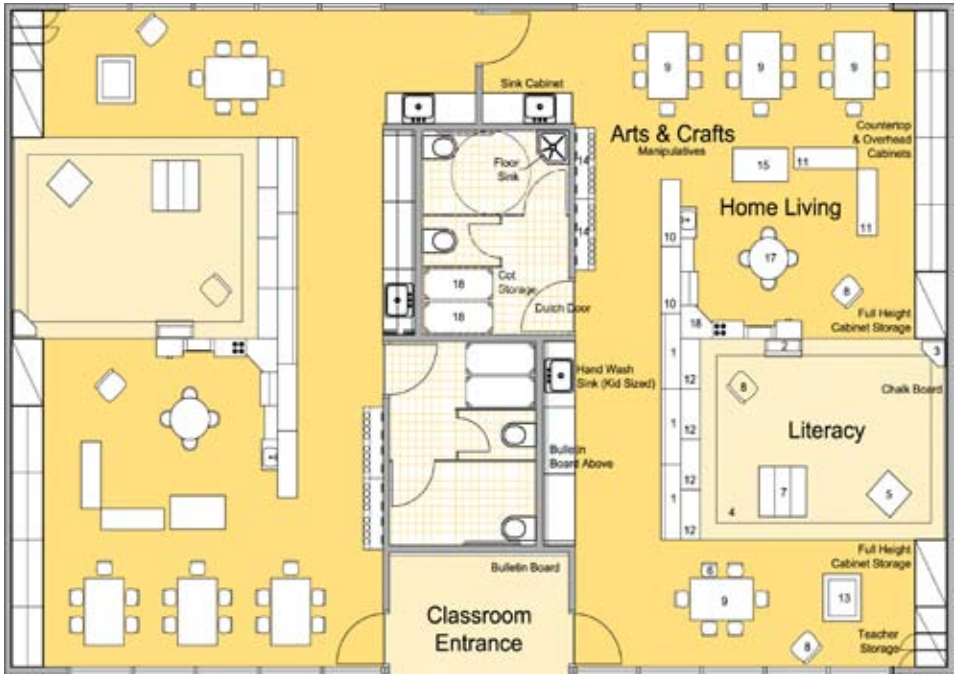
EDUCATION



EARLY CHILDHOOD EDUCATION

Early childhood or pre-school education is a complex new form of educational socialization. It extends beyond early instruction and involves the care and nurturing of children – meeting the health, safety, nutritional and emotional needs necessary for their future educational success. The challenges in designing for such a nurturing environment involve a very humane sense of purpose and vision beyond traditional school based models. Young children are focused on the present and as such are less cognitive and function oriented than adults. Thus, design should create a canvas for the child's and teacher's creative living and learning as an expression of their imagination.



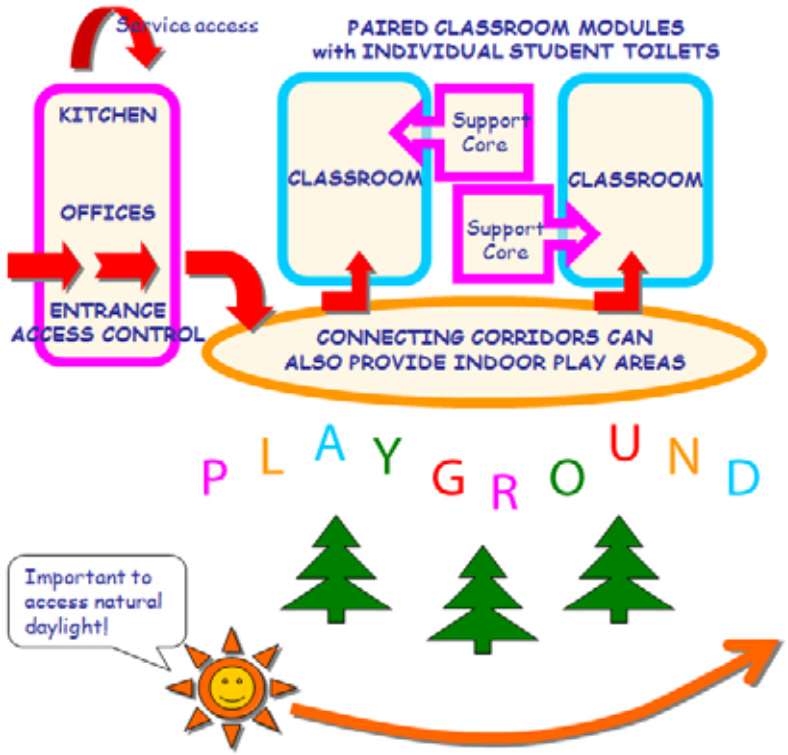
CLASSROOM MODULE (2-UNITS PER MODULE)

EARLY CHILDHOOD CENTER PROTOTYPE

As leaders in the educational field, we have developed guidelines for early childhood centers in partnership with some of our provider clients. These physical guidelines have been adopted in part by the State of New Jersey in the drafting of their regulations. As a result of this effort, early childhood building prototypes were developed to leverage consistency in quality and design standards enhanced by centralized procurement economies. A planning module approach facilitated the application of the prototype to a variety of physical settings and program sizes, providing sufficient variety to distinguish individual facilities and avoid a "cookie-cutter" look. Many of our early childhood centers illustrate the successful application of our prototype design approach in the quality of the facilities and their ability to meet budget and delivery goals.

CLASSROOM FURNITURE:

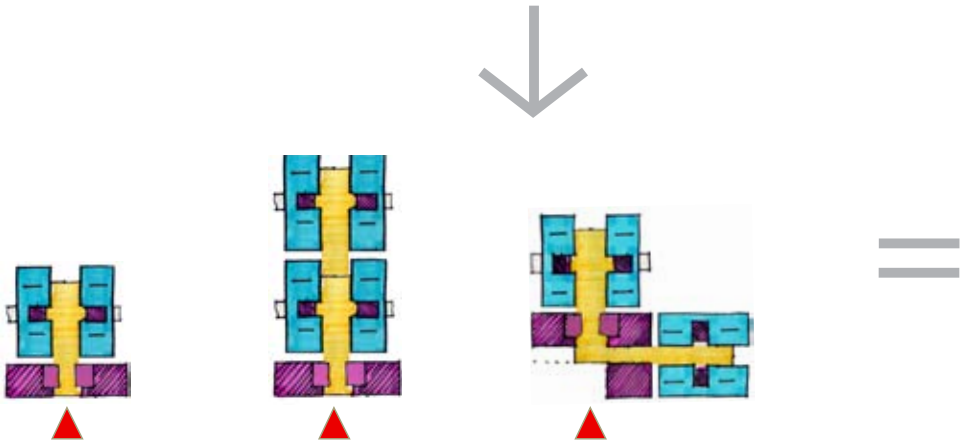
1. Childcraft 5-Unit Coat Locker
2. Childcraft Extra-Wide Mobile Language Center
3. Childcraft Corner Audio-Visual Center
4. 12'x16' Area Rug
5. Childcraft 4-Sided Library
6. Childcraft 12" Economy Maple Chair
7. Childcraft double-Sided Writing/Activity Center
8. Teacher Task Chair (HON 5902 "Comfortask" Series)
9. Childcraft 30"x48" Table
10. Childcraft 20-Tray Hide-Away Cabinet
11. Childcraft Hide-Away Cabinet
12. Childcraft 3-Shelf Deep Book Module
13. Childcraft Literacy Cube
14. Childcraft Wall-Mounted Easel
15. Childcraft Double-Sided Art Center
16. Childcraft Complete Kitchen Set
17. Childcraft Circular Table & Chair Set
18. Childcraft Economy Enviro Cot



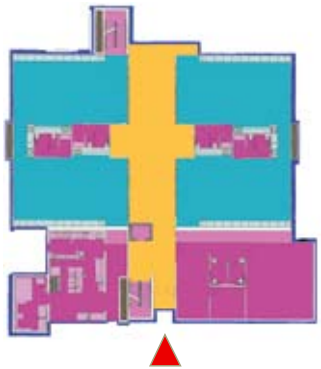
CONCEPT
DIAGRAM

EARLY CHILDHOOD CENTER PROTOTYPE

Organization – The basic organizational strategy of the prototype facilitates adaptability to different site conditions and limitations while allowing sufficient space for outdoor space and environmental awareness. Paired classroom modules with individual student toilets and ancillary spaces allow for operational flexibility and backup support. They provide the totality of the immediate child scaled environment required for the day's activities. Corridors and service areas are further optimized to enhance their versatility and multipurpose use. Based on an ideal 8 classroom model which can accommodate 120 to 160 students at approximately 14,000 SF over two floors, the prototype remains effective in a compact urban configuration. Larger applications are still possible thanks to the modular approach of this prototype concept.



PROTOTYPE
EXAMPLES



SCHEMATIC
PLAN

MARTIN LUTHER KING JR. SCHOOL

MARTIN LUTHER KING JR. SCHOOL and DONALD STEWART SCHOOL

Elizabeth, NJ

Elizabeth Board of Education,
NJ Schools Construction Corporation

In response to the State's mandate for quality education, Elizabeth's early childhood centers offer imaginative and exciting physical environments fully equipped for guiding pre-school children learn basic educational and socialization skills. It features a child scaled environment where spatial reference points and wayfinding are carefully sized to meet the needs of the child.

[HACBM Architects, Frank X. Moya, Director of Design]

DONALD STEWART SCHOOL

MARTIN LUTHER KING JR. SCHOOL and
DONALD STEWART SCHOOL

Elizabeth Board of Education,
NJ Schools Construction Corporation

Every element of the school is intended to enhance the child's experience of their environment through the use of bright colors, textures and lively patterns – like those in the playground areas. These patterns and symbols in the playground's safety ground cover help to identify activity zones and stimulate imaginative play. Other child-friendly enhancements like the animated school clock provide familiar icons that reinforce daily lessons.

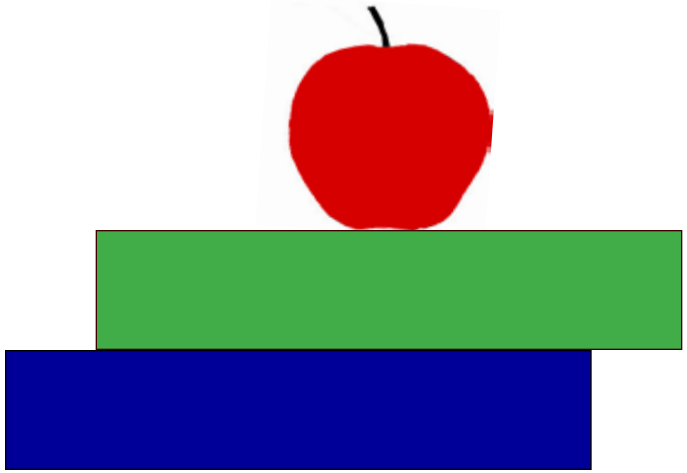
[HACBM Architects, Frank X. Moya, Director of Design]

PUERTO-RICAN ACTION BOARD

New Brunswick, NJ

The Puerto Rican Action Board, a community service organization, realized this child care center for 220 children, one of the first of its kind under the influential Abbot vs. Burke New Jersey-based initiative for special needs school districts.

Following prototype design guidelines that we had developed for state-wide use, the design transformed an existing three-story warehouse into a naturally-lit renovated space. Free-form common areas enjoy a sun-lit, south-facing exposure with a view overlooking the playground courtyard below. The center features 11 classrooms, indoor play areas, kitchen and dining facilities, and supporting offices.



PRIMARY and SECONDARY EDUCATION

Guiding students through their first steps in achieving basic literacy to the completion of their compulsory education, no other building program has been as affected by technological advancement and growth. In a field with a wide variety of educational missions and philosophies, the need to shape and provide an appropriate physical environment conducive to learning remains pertinent in its many manifestations. With diminishing budgetary and environmental resources the race to keep current and responsive to ever-growing learning needs requires an experienced vision and imagination deeply grounded on a successful track record.

ENTRY PORTICO

DALTON LOWER SCHOOL
- EXTERIOR RESTORATION

New York, NY

New York City Landmarks Preservation Commission approvals allowed the replacement of all existing windows and doors with new millwork units and hardware. A classical portico entry structure was also rebuilt and given a new copper roof. The Commission allowed several traditional 6-panel entry doors to be modified with glass vision panels, for functional reasons, while retaining their traditional character. Construction work was phased over many levels in two buildings.

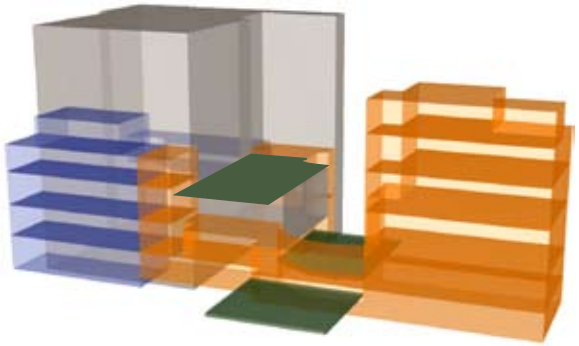
GROUND LEVEL COMMON AREAS

DALTON LOWER SCHOOL - EXPANSION

New York, NY

In order to establish a strategy for expansion of the Lower School and include 4th graders with the existing kindergarten through 3rd grade, feasibility studies were conducted, evaluating alternative strategies to expand by annexing several adjacent townhouses. One study investigated extending the existing school on 91st Street north across the block to a new building on 92nd Street, linked by a corridor curving around a significant tree in a mid-block garden court. Other studies evaluated how the zoning envelope could be expanded to provide additional floor area by enlarging the building footprint or maximizing air-rights on top of the building. To provide an adequately-sized assembly space for 500 students and faculty in the lobby area, plans considered relocating the existing ground level kitchen to the basement in order to create a central lunch room and an adjoining expanded gymnasium at ground level. Plans were developed and defined to a sufficient level of detail to form the basis of clear cost estimates.

PROGRAM AREA AXO-VIEW



PROGRAM AREA REGEND

- Existing School Buildings
- New Common Areas
- New Townhouse Expansion
- New Classroom Areas
- Exterior Plan Areas

CLASS TEACHING AREA

WORK STATIONS AND CIRCULATION DESK

DALTON LOWER SCHOOL - LIBRARY

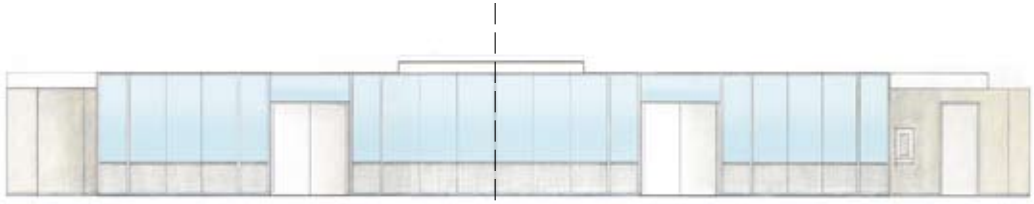
New York, NY

This fully-renovated Lower School Library supports the daily needs of educators of grades K-3 for both a class-sized group teaching area with audio-visual capabilities and a more intimately-sized story-telling area. These teaching areas are surrounded by book stacks with room for expansion. Visitors are greeted at a centrally located circulation desk, affording librarians good visibility of all student areas. Nearby computer work stations are also convenient for staff to assist students in these activities. Warm wood finishes, bright paint colors and good lighting all contribute to establishing positive experiences with books for these younger students, a core component of the school's distinguished early education curriculum.

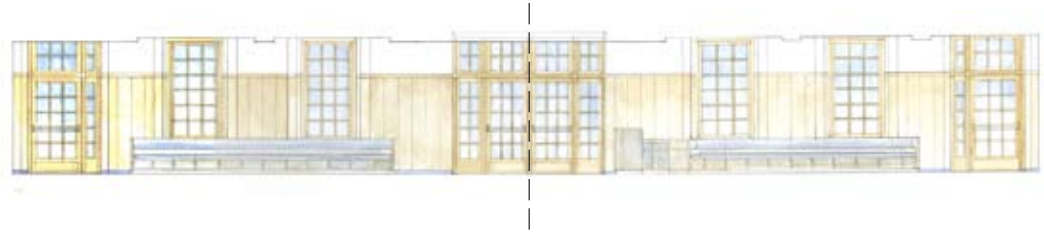
DALTON SCHOOL - LOBBY

New York, NY

In order to create a symmetrical lobby space commensurate in scale and character suitable for a school of 1100 students, the challenge to relocate ground level offices required juggling spaces on several upper-level floors. A new expansive display case became the new focus of the lobby, exhibiting the diversity of student life at Dalton as 'a window into the life of the school'. It expanded on the popular display of student art work in glass cases that is visible to the neighborhood community. Relating to the classical archway over the entry, a circular floor pattern with the school crest and a top-lit circular coffer create a central foyer within a long, narrow lobby space. The guard desk accommodates security and system controls in an unobtrusive curvilinear design. Secondary side doors, seating, book-bag storage, library book-drop and audio-visual capabilities flexibly support a range of seasonal and security concerns in this lively, high-traffic space.



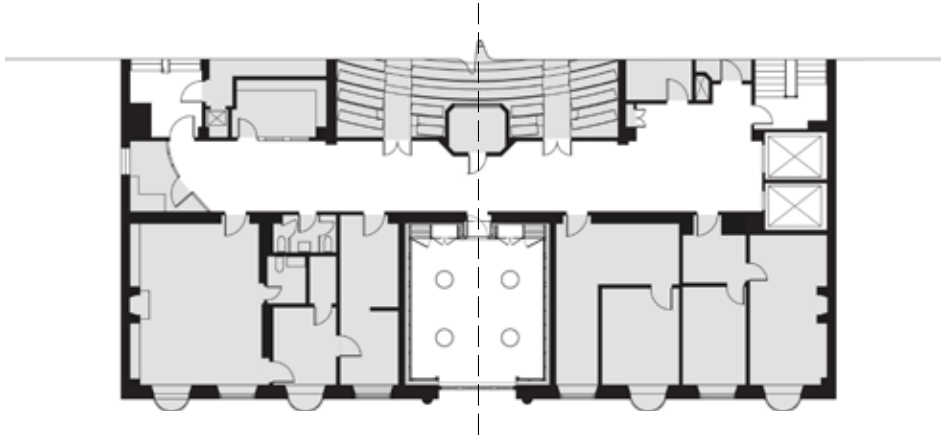
DISPLAY CASE: "WINDOW INTO THE LIFE OF THE SCHOOL"

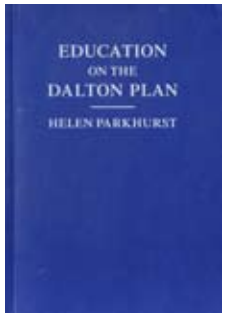


DALTON SCHOOL - ALUMNI ROOM

New York, NY

This cherished school meeting room was revitalized with a new millwork paneling and cabinetry design, a re-finished ceiling and new lighting. A new audio-visual system provides video conferencing capability. Portraits of past faculty and other memorabilia have acquired new prominence, as have published works of school alumni displayed in several reconstructed, LED-lit display-cases. The school community was delighted that existing arm-chairs were given a new lease on life by refinishing and re-staining the wood frames, eliminating unwanted side panels and reupholstering cushions with comfortable leather seating. New carpeting and improved lighting unifies the Alumni Room with the central gallery space where student artwork is regularly exhibited.





1920 DALTON PLAN :

Cultivates individual
creative freedom
+
academic discipline

PREMISE : THE MINDSET OF THE DALTON URBAN STUDENT

Urban student lives
in a concrete jungle
+
Daydreams of playing in the park

DALTON COMMONS and DINING

New York, NY

Dalton School's new Student Commons & Dining Hall, is conceived as an academic crossroads, where the community congregates to share meals & exchange ideas. The school has greatly improved capacity to serve over 1200 students & faculty lunches daily and schedule other activities before and after. To relieve these urban students from a hectic school-day spent in confined spaces, the Commons design makes allusions to outdoor space, with spatial gestures that expand out from the intersection of cardinal axes.

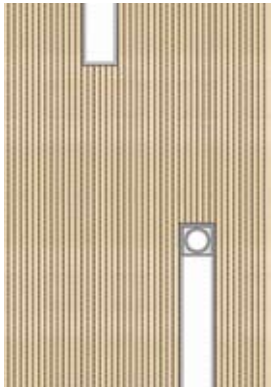
PROGRESSIVE

NATURAL

+

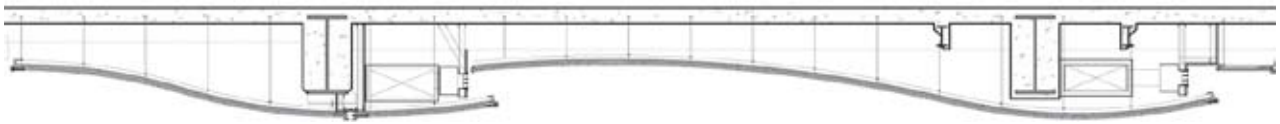
TRADITIONAL

CLASSICAL



DALTON COMMONS and DINING

The wave ceiling appears to float over the dining room with a spirit of openness and whimsy, providing acoustical comfort while hiding deep support beams. The Kitchen and front Serving Area appears as an oven, whose galley-type plan that offers a direct visual connection to the food preparation.



KITCHEN HOT-PLATE SERVERY

WATERCOLOR VISION

DALTON COMMONS and DINING

At the center of the plan over-looking the street, a three-bay loggia space, defined by a cherry-wood millwork frame, makes a virtue of the building structure and corresponds to a similar 1929 conception of the building's classical façade. An angled sunray wall, in venetian plaster, makes a bright gesture towards the Health Services suite. The Commons is an assemblage of cultural and natural elements that together create an spatially & intellectually expansive crossroads.

ENTRY FOYER WITH 'DRUM' - SHEET MUSIC LIBRARY

DALTON PERFORMING ARTS

New York, NY

Dalton's lower-level space renovation innovates efficient space-use to suit the specific demands of its Theater, Dance and Music programs that rival for precious urban space. The sheet music library's 'drum' formally evokes the school's library on an upper level. Throughout the floor curtains, which are equated with performance, both literal and implied using curtain-like materials and forms, are collaged together to conceptually unify the three performance programs.

DANCE

+

THEATER

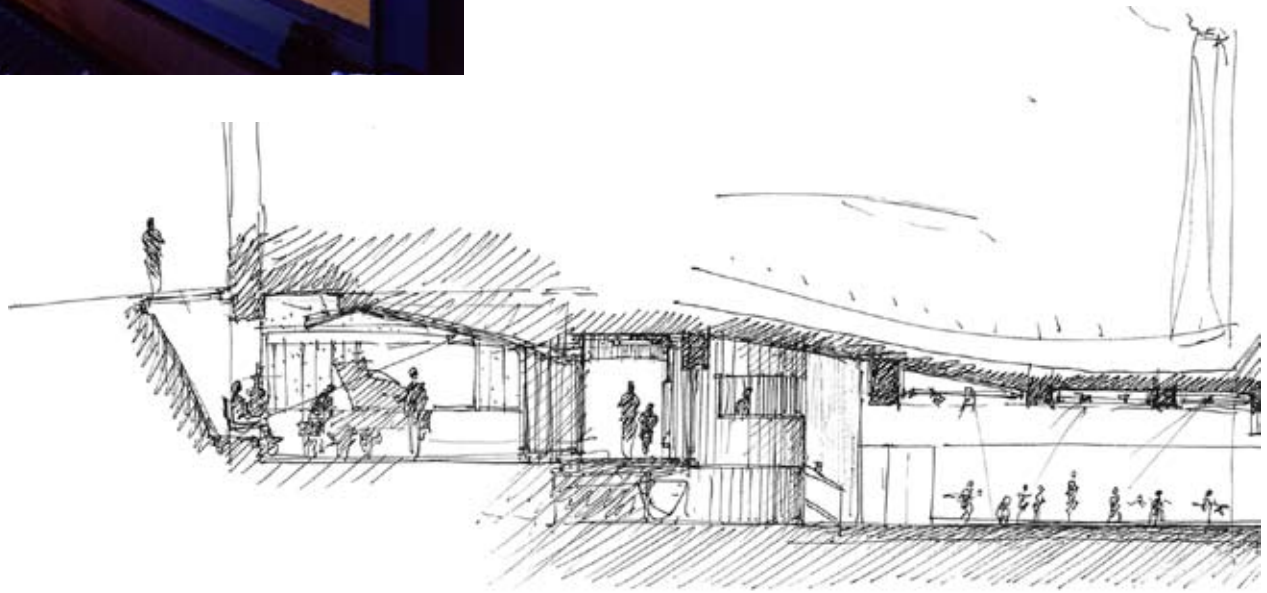
+

MUSIC

DALTON PERFORMING ARTS

A central Flex-tech space, situated below the school theater, offers versatile rigging, curtains and lighting, capable of being transformed for theatrical rehearsals and performances, full orchestral rehearsals or as an open dance studio. Critical contiguous instrument and chair storage was created beneath the relocated center corridor. The 'piano' shaped tech booth takes its form from the piano housed at its base.

"PIANO" TECH BOOTH OVER PIANO GARAGE



Along the perimeter, newly-conceived Music classrooms, enjoy natural light, introduced by cast glass prisms set into the sidewalk above. Free-floating acoustical ceiling forms add an expansive gesture toward the light and provide the classrooms with a sense of dynamic performance.

"FLOATING" ACOUSTICAL CEILING AT MUSIC CLASSROOM

STUART COUNTRY DAY SCHOOL of THE SACRED HEART

Princeton, NJ

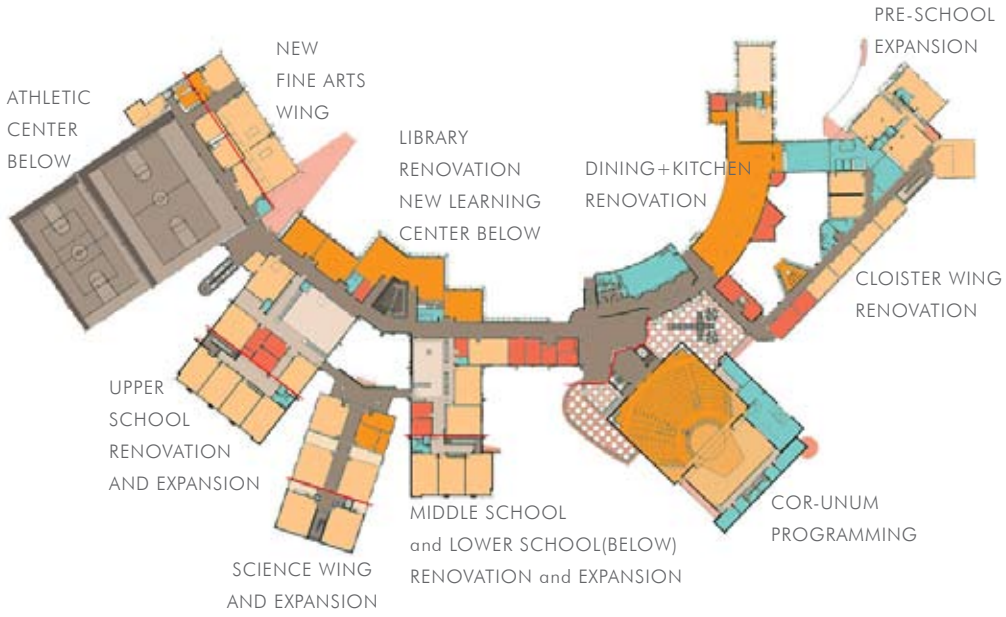
Master Plan - The $14-million master plan for this unique all girl school's modern landmark complex continued a 15-year effort to identify the future educational and physical needs of the school after the completion of a new science wing and gymnasium. It sought to update and adapt new uses to parts of the existing complex like the then obsolete cloister wing with state of the art language labs and pre-school expansion. It envisioned a new performing arts complex, visual arts wing, a new off-site athletic complex and new classrooms in addition to the programmatic completion of noted architect Jean Labatut's original 1961 design.

EXISTING BUILDING

NEW FINE ARTS WING

SITE PLAN

UPPER SCHOOL WING

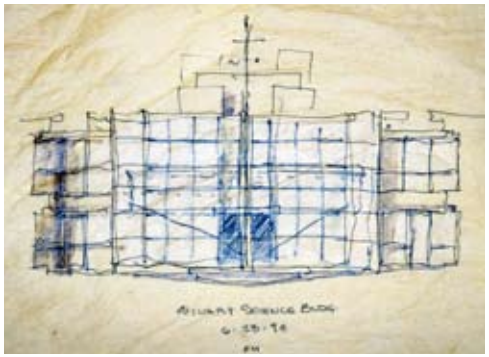


STUART COUNTRY DAY SCHOOL of THE SACRED HEART

Implementation - Attention to detail and materials ensured consistency with the original design without stressing the stated budget goals. Our scope included $9-million in construction of new academic facilities and renovations identified in the master plan, and the preparation of program requirements for the $5-million Cor-Unum, Labatut's hereto unfulfilled spiritual center of the school.

The site's particular topography facilitated mitigating the visual impact of large volume areas down hill from the main entrance level. New construction visible from the entrance level was designed to be open and transparent – ideal for the new art studios – while downhill additions were punctured and opaque - systematically suited for their classroom functions.

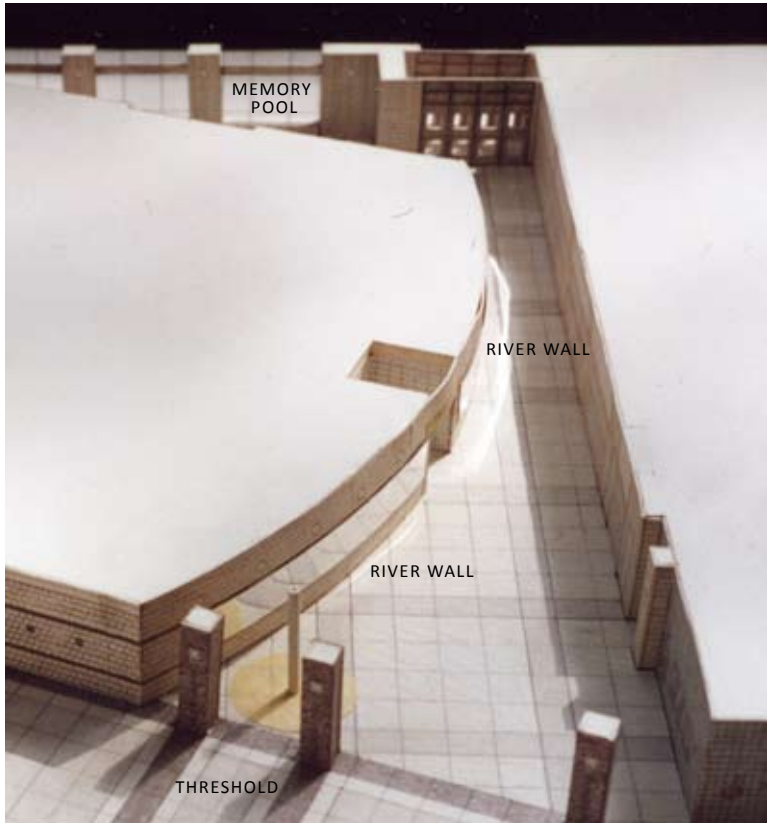
CONCEPTUAL SKETCH



SCIENCE WING COURTYARD

STUART COUNTRY DAY SCHOOL of THE SACRED HEART

Completion – Construction was carefully coordinated in order to minimize disruptions during the school year. Renovations were accomplished during break periods while stand alone additions could be undertaken within a year's time with little impact on operations. At the completion of the project, both the design team and the construction manager were publicly commended by the school for meeting the project's stated budget and schedule goals while enhancing the sensitive nature of the overall design.



STYUVESANT SCHOOL

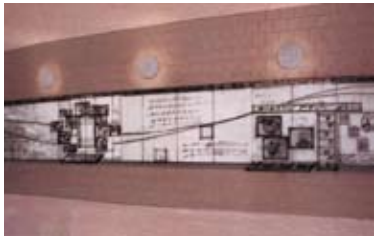
Interactive School History Exhibit

New York, NY

To commemorate the 100th anniversary of this renowned New York City public high school, a fundraising campaign created an interactive exhibit in the school lobby telling the history of the school and the opportunities for advancement it afforded its many gifted and distinguished alumni. The exhibit was conceived by historian and school alumnus, Richard Rabinowitz, as a narrative journey composed of three parts suited to the Hudson River context: *THRESHOLD, RIVER WALL* and *MEMORY POOL*. Framed by a pair of lobby columns, the *THRESHOLD* exhibit introduction segues to the *RIVER WALL*, a multi-media exhibit with jewel-like interactive elements that follows the curved wall of the school theater wall. It leads to the *MEMORY POOL*, an intimately-scaled viewing area at the end of the lobby where visitors may watch more in-depth content on larger monitors. The project intended to represent the interests of school constituencies and its alumni by raising $ 15 million and contribute to the vitality of the school of today.

THRESHOLD

RIVER WALL



MEMORY POOL

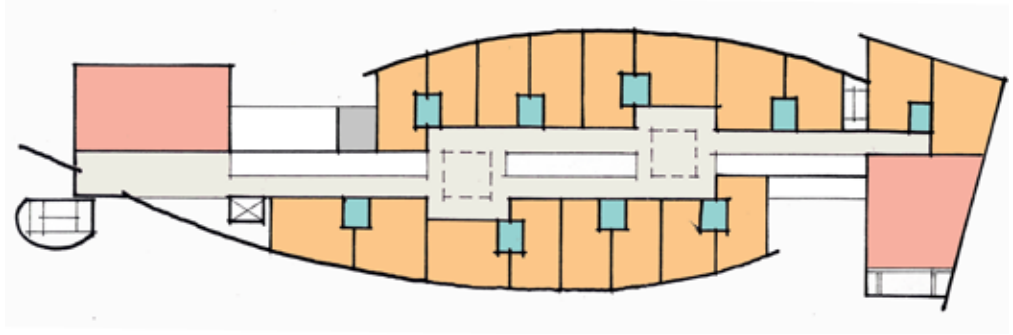
BEAR TAVERN SCHOOL

Hopewell Valley Board of Education

Hopewell, NJ

The acoustical renovation of an existing multipurpose room in a 1960's vintage suburban elementary school building enhanced the practical versatility of the space. As a consequence of the original maintenance-free, abuse resistant materials, the room's acoustical environment disruptively reverberated with activity. After an extensive technical analysis, it was determined that an unobtrusive solution was possible by selectively treating the walls with limited absorbing material at the rear of the room, and design a highly, but visually simple, absorptive ceiling. The resulting balance of reflective and absorptive surfaces allow for speech intelligibility while controlling noise levels.

K-5 ELEMENTARY SCHOOL PROTOTYPE



PROPOSED EARLY CHILDHOOD, ELEMENTARY AND MIDDLE SCHOOLS

NJ SCHOOL CONSTRUCTION CORPORATION

As part of the state's comprehensive school construction program, design assistance was provided for various site feasibility programs throughout NJ:

1. PARKER, CADWALADER and MONUMENT SCHOOLS - Trenton Board of Education
   Site feasibility and design for replacement or expansion of three existing facilities.
2. NORTH CENTRAL REGIONAL SITE FEASIBILITY CONTRACT

[HACBM Architects, Frank X. Moya, Director of Design]

   On-call service contract for investigating and evaluating various sites for the feasibility of constructing school facilities.

3. PROPOSED EARLY CHILDHOOD, ELEMENTARY AND MIDDLE SCHOOLS – Plainfield Board of Education

[HACBM Architects, Frank X. Moya, Director of Design]

   Proposed application of prototypes for 500 student early childhood pre-school, 500 student elementary school and 300 student middle school in close proximity

4. K-5 ELEMENTARY SCHOOL PROTOTYPE

[HACBM Architects, Frank X. Moya, Director of Design]

   Compact prototype for urban, elementary school model

NJ SCHOOL CONSTRUCTION CORPORATION

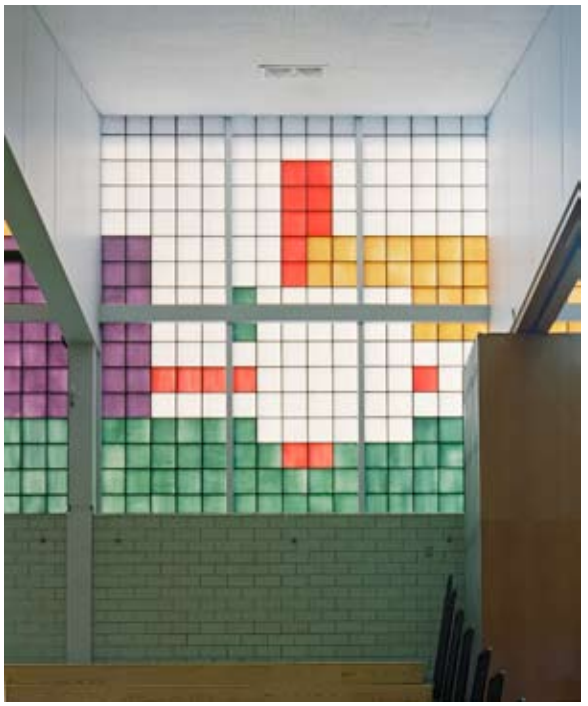
East Orange, NJ

5. CLIFFORD J. SCOTT HIGH SCHOOL MODERNIZATION PROGRAM – East Orange Board of Education

[HACBM Architects, Frank X. Moya, Director of Design]

Renovations for 120,000 SF high school facility.

CLIFFORD J. SCOTT HIGH SCHOOL GYMNASIUM



NEW TRANSLUCENT PANEL WALL

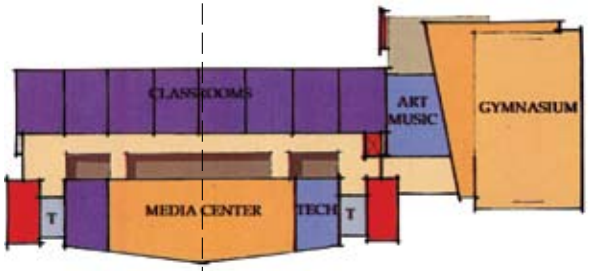
PLAINFIELD ELEMENTARY SCHOOL
Plainfield Board of Education

Plainfield, NJ

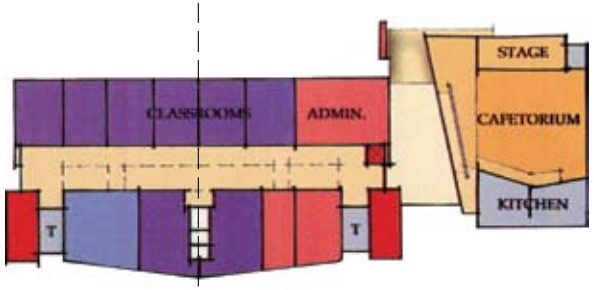
The proposal for a sustainable urban elementary school for 300 students revolved around the conscious planning and harvesting of natural daylight by maximizing interior perimeter.

[HACBM Architects, Frank X. Moya, Director of Design]

PRIMARY ELEVATION

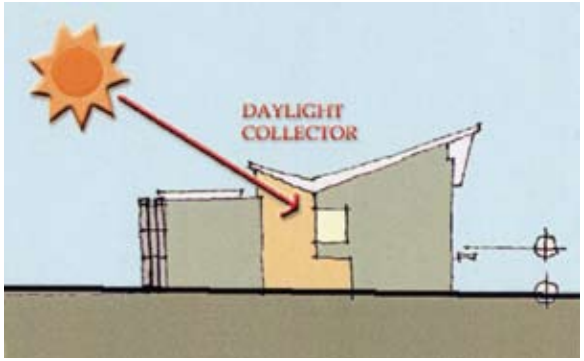


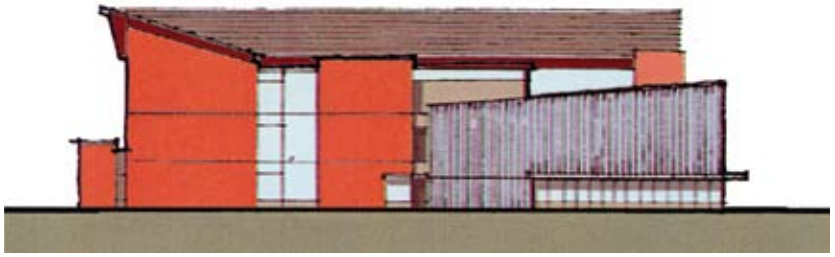
2nd FLOOR PLAN



1st FLOOR PLAN

CAMPUS SITE PLAN





PLAINFIELD MIDDLE SCHOOL

Plainfield Board of Education

Plainfield, NJ

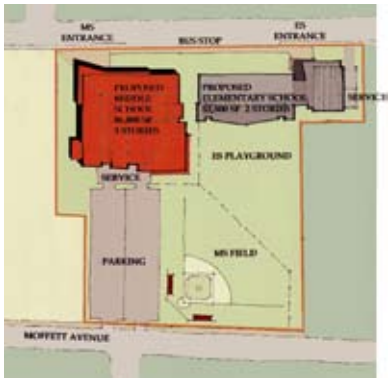
The proposal for a sustainable urban middle school for 500 students revolved around the conscious planning and harvesting of natural daylight by maximizing interior perimeter in a compact footprint.

[HACBM Architects, Frank X. Moya, Director of Design]

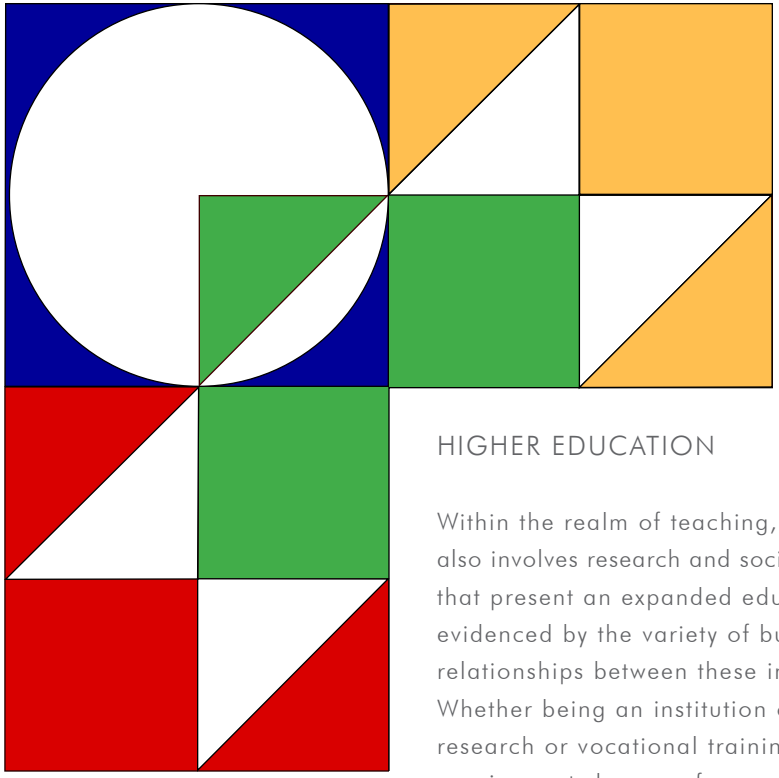
1st FLOOR PLAN

2nd FLOOR PLAN

3rd FLOOR PLAN

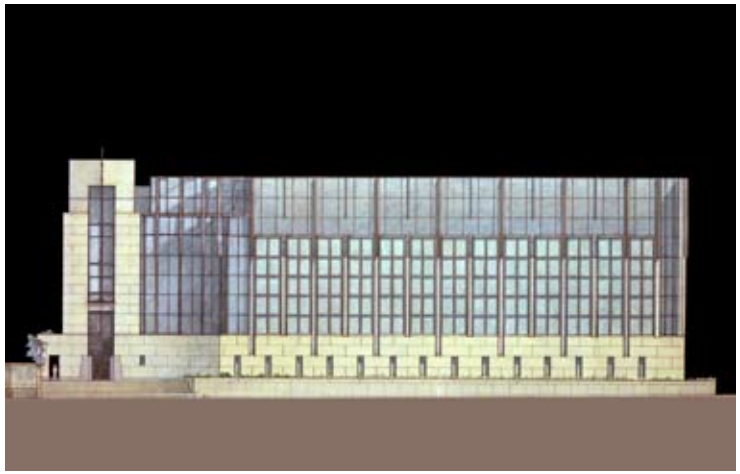


CAMPUS SITE PLAN



HIGHER EDUCATION

Within the realm of teaching, higher education also involves research and social services activities that present an expanded educational agenda evidenced by the variety of building types and relationships between these in campus design. Whether being an institution of higher learning, research or vocational training, the disciplinary requirements become far more exacting not only for the docent facilities involved but also for the supporting structures like sport, recreational and social facilities that further envelope the educational community.



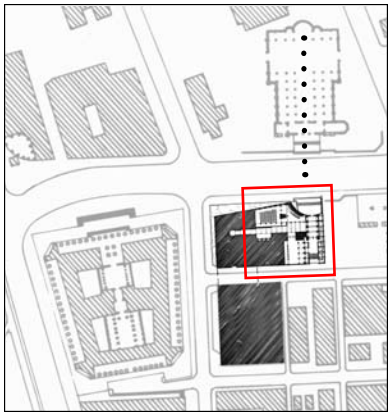
CARNEGIE MELLON SOFTWARE INSTITUTE

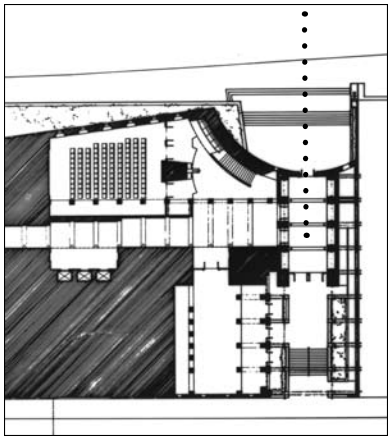
Pittsburgh, PA

The SEI, at Carnegie Mellon University, an Air Force-affiliated Basic computer research facility, is an alchemy of materials & forms that balance a dynamic future on a resolute past. Reflective glass & metals combine with heavy stonework to mediate between an architecturally rich context and a cutting-edge internal program. Situated among the monumental classical edifice of the Mellon Institute, modern commercial buildings and the gothic St.Paul's Cathedral, the institute is conceived as 'background' building set within the urban fabric. At the entrance however, a sculpturally distinct limestone tower faces the cathedral's façade, occupying the foreground. Visitors, entering through the semi-circular, stone forecourt find the tower standing in a garden defined by a wisteria-laden steel trelliswork structure. Within a pre-determined zoning envelope, a stone base visually supports curtain-wall elements which relate dimensionally to the massive stone colonnade across the street. Aluminum flange sections are applied along the top of the façade, adding depth & shadow and are emblematic of Pittsburgh's distinguished heritage in metallurgy.

[BCJ Architects, Peter Matthews AIA, Lead Designer]

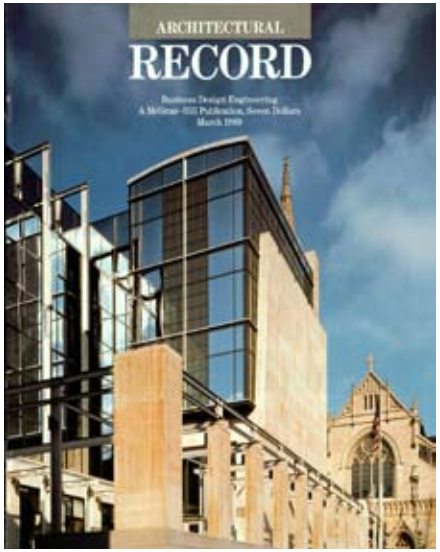
CARNEGIE MELLON SOFTWARE INSTITUTE

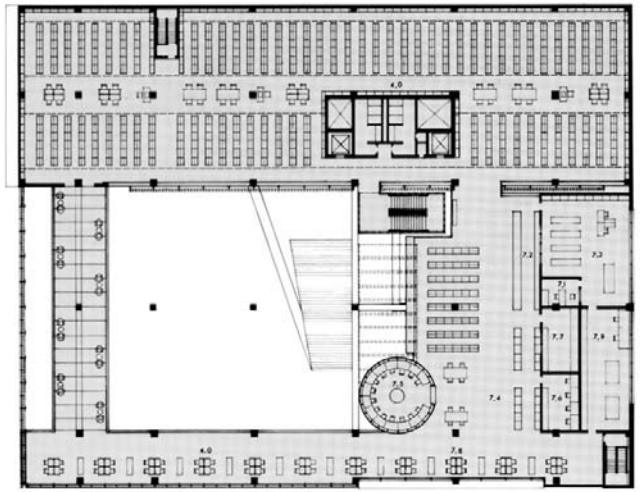




The projection booth, serving a 120-seat auditorium, stands in the lobby expressing its machine-like character enlivening this abstract computing environment.

The project was featured in Architectural Record as 'Soft Machine' and referred to in the op-ed column of the Pittsburgh Post-Gazette as the 'Software Chapel'.



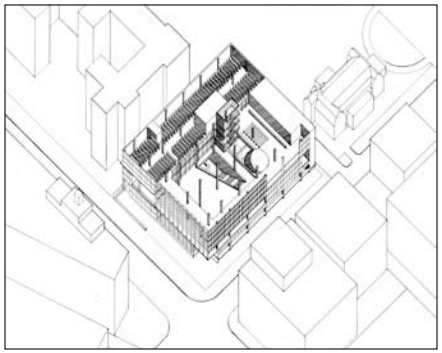


EVANSTON PUBLIC LIBRARY

Evanston, IL

By night, the lofty corner reading room of this public library is envisioned to glow symbolically as a lantern-of-learning that anchors the intersection where a major diagonal street meets a shift in the street grid. Situated one level up with the Librarian desks, on a base that contains the Children's Library and community meeting rooms, the reading room is shaded during the day by large wooden louvers that moderate direct exposures to the sun. A functional block across the back is comprised of book stacks, library support areas, and vertical circulation and is screened to the reading room by a continuous semi-transparent metal screen. An upper-level audio visual room floats overhead as a spherical-form. To satisfy the requirement that the building be fully-self sufficient and constructed in two-phases, the design follows a book-like plan, with center seam where both phases have both reading room and support stacks.

[with P. Gates, architect]

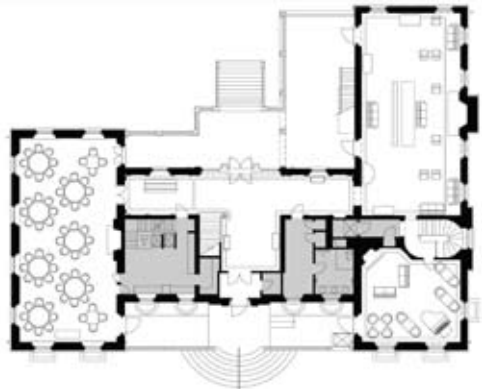


AXO VIEW

THE PRINCETON CHARTER CLUB

Princeton, NJ

$2,000,000 master plan and feasibility study for historic club house at Princeton University designed by noted Philadelphia architects Mellor, Miegs and Howe. Implemented building and fire code updates, including sensitive design of innovative sprinkler system installation in a historic structure; incorporated high end computer and educational facilities, new recreational facilities like the new pub and paneled billiards rooms, and extensive exterior renovations and kitchen expansion.



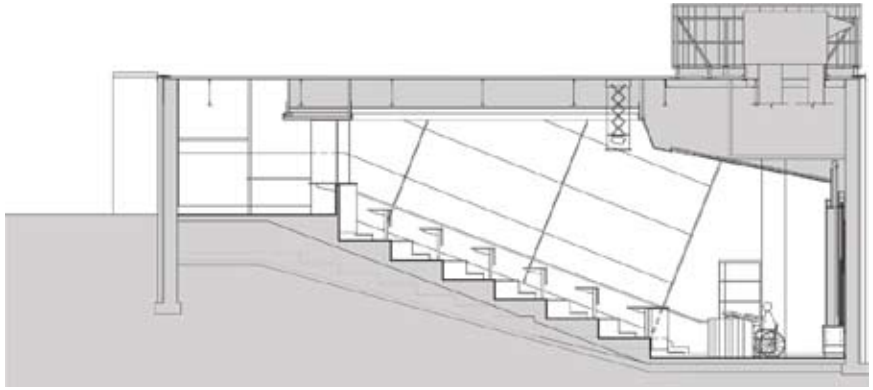
FIRST FLOOR PLAN

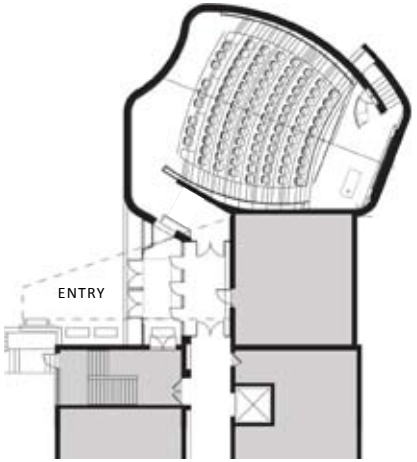
SECOND FLOOR PLAN

WILLIAM PATERSON UNIVERSITY
Hunziker Wing Auditorium

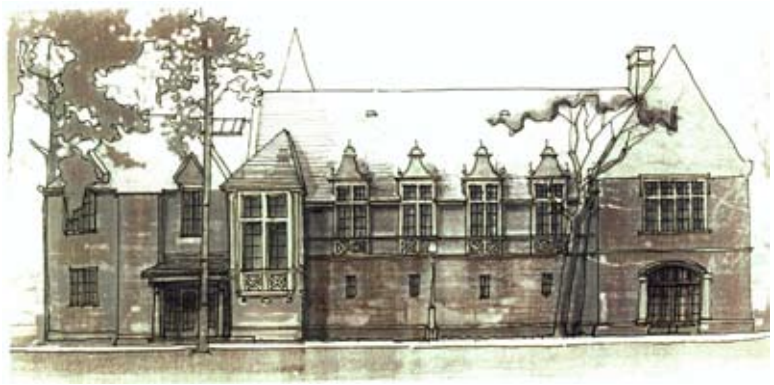
Paterson, NJ

The $600,000 major interior and exterior renovation transformed a 1960's vintage nursing amphitheater into a state-of-the-art multimedia lecture hall. The project scope included regrading the hall's pitch while providing easy barrier-free accessibility. Mechanical systems were reconfigured to minimize noise disruption, and the acoustical qualities were enhanced with new treatment design. Systems included a custom design control lectern to facilitate ease of presentations.





ENTRY AND THEATER PLAN



KEAN FARM BUILDING RENOVATION

MASTER PLAN

KEAN UNIVERSITY MASTER PLAN

Union, NJ

The facilities master plan has guided campus development in support of the academic vision, goals and priorities of the University's 1997-2002 Strategic plan. As consultant to Wallace Roberts and Todd, our office was responsible for the inventory and evaluation of the existing buildings, formulation of renewal repair budgets and recommendations, as well as architectural assistance in the development of capital need and expansion projects.

KEAN FARM BUILDING RENOVATION

LATIN AMERICAN EDUCATIONAL DEVELOPMENT AGENCY – LAEDA Camden Training Center

Camden, NJ

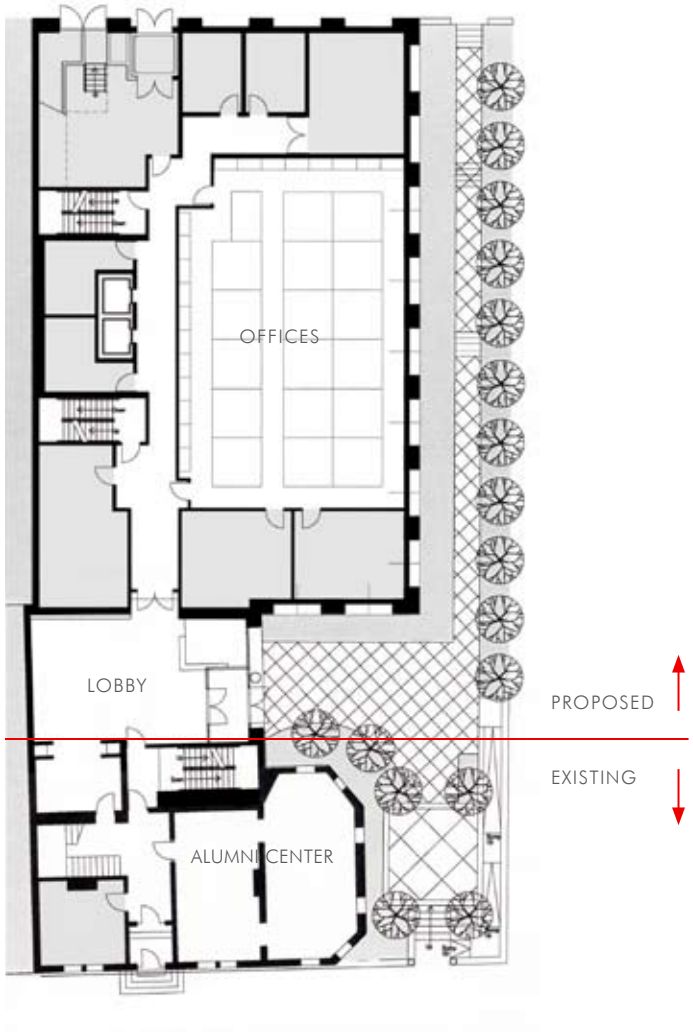
As part of this $4.3-million urban revitalization project for vocational training center and business incubator, the project also included the uninterrupted relocation of an existing on-site pharmacy.

MAIN STREET VIEW

THOMAS EDISON STATE COLLEGE

Trenton, NJ

This executive office facility design accommodated a major building addition to the historical Roebling mansion. The scope included facilities for the college's executive staff and alumni.



GROUND FLOOR PLAN

222 WEST STATE STREET PROPOSAL

COLLEGE of NEW JERSERY

Ewing, NJ

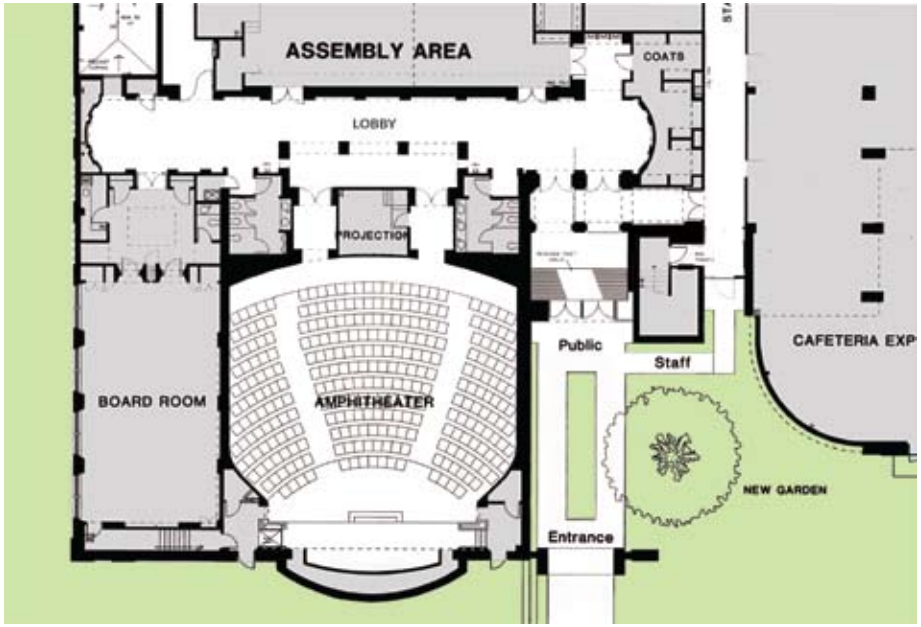
The design exercise's goal was to develop a dormitory prototype based on pre-fabricated modular construction. Based on 12, 14 and 15 foot modules, the schemes explored simple arrangements for a compact footprint.

[HILLIER – Frank X Moya, Associate in charge of design]

12FT X 16FT (196SF EA)

14FT X 15FT (210SF EA)

14FT X 15FT (210SF EA)



GROUND FLOOR PLAN

MORRISTOWN MEMORIAL HOSPITAL
Malcolm Forbes Teaching Amphitheater

Morristown, NJ

As part of an extensive master plan for the hospital's 25-acre campus, the 300 seat amphitheater with adjoining board room expanded the teaching hospital seminar and docent areas. Designed as a stand alone facility, it features a specialized staging system versatile enough for a wide variety of presentation and live patient modes including broadcast quality lighting. Systems included a custom design control lectern to facilitate ease of presentations.

[HILLIER – Frank X Moya, Associate in charge of design]

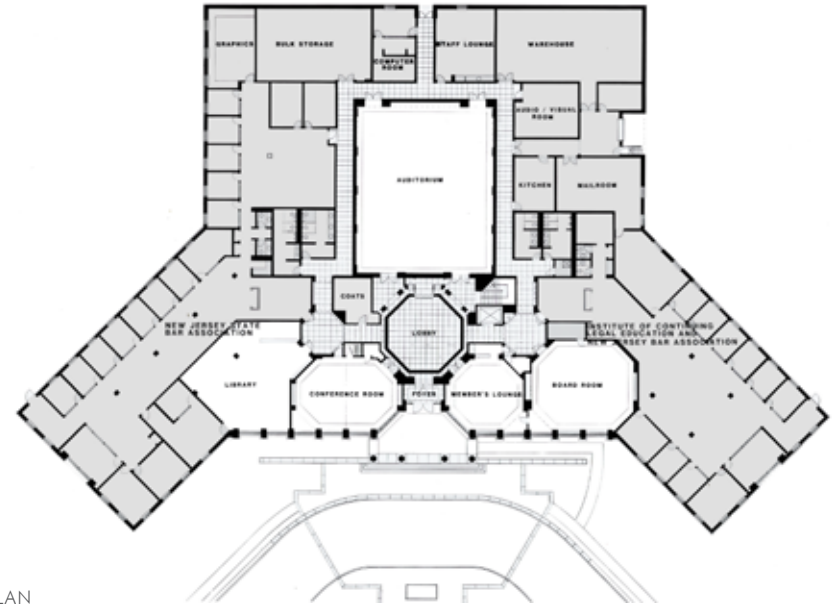
LOBBY VIEW

NEW JERSEY BAR ASSOCIATION

New Brunswick, NJ

The design for the new state bar 37,000 SF headquarters included facilities for small and large meetings, law library, graphic and video presentation and production facilities, the Law Office Administrative Resource Center, the Institute for Continuing and Legal Education, and membership services. Its distinctive copper clad cupola feature echoes the central memorial rotunda inside.

[HILLIER – Frank X Moya, Associate in charge of design]



GROUND LEVEL PLAN

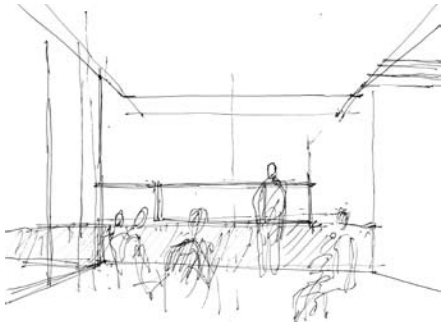
REAR ELEVATION

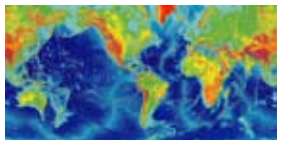
BOREHOLE / COLUMBIA UNIVERSITY

Lamont Doherty Earth Observatory Campus

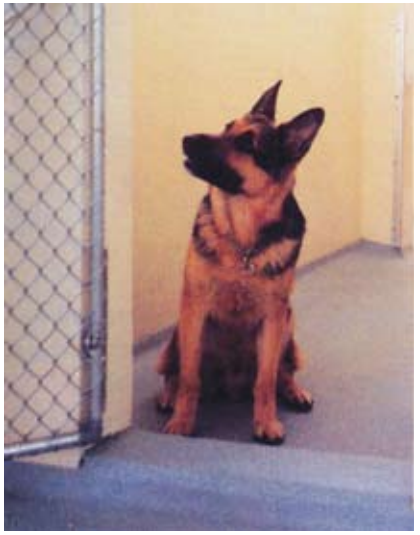
Palisades, NY

Columbia University's Borehole Group, a world leader in the research of deep-ocean geophysics, has completed Phase I towards meeting its growing office needs. To collect geological core samples, group members work periodically on their research ship, which extends their global reach and gives context to their collective mindset. Three 1920's era carriage house structures have been linked together around a common entrance and center court. Six existing porthole windows in the center building's stone base locate the Hub, where the group can gather socially or work collectively. Peripheral study carrels provide temporary work-stations for visiting colleagues. Group-time spaces are differentiated from individual study-time spaces in a scheme that simultaneously creates a stable center and radiates-out globally.





TRAINING CENTER VIEW



THE SEEING EYE
Walter Dillard Kirby Canine Center

Morristown, NJ

Probably, it is the only comprehensive canine facility of its kind in the world. The 30,000 SF, 120-dog training center includes custom designed individual dog kennels and training runs integrated into the structural precast concrete modules which support the building. Dedicated to training and placing guide dogs for the blind, The Seeing Eye's intensive canine education program required a sanitary, climate controlled facility arranged for modules of instruction of 10 dogs each. These are arranged in quadrants throughout the 3-story building where each module houses individual sleeping and exercise kennels opening to a communal training area. The center also houses a fully equipped veterinary clinic and grooming facility.

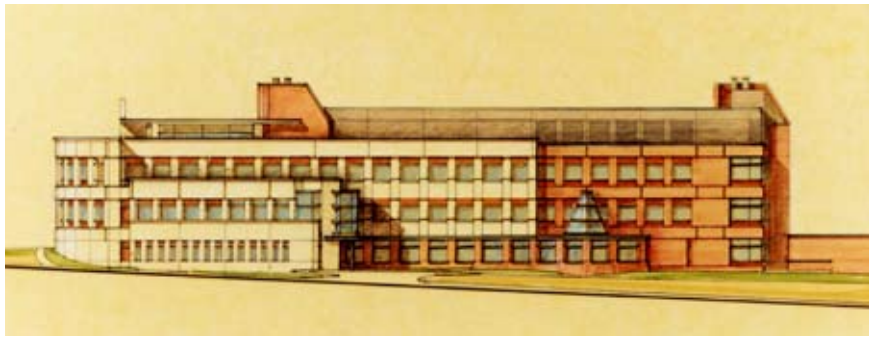
[HILLIER – Frank X Moya, Associate in charge of design]

CANCER INSTITUTE OF NJ
University of Medicine and Dentistry of NJ
Robert Wood Johnson University Hospital
Rutgers University

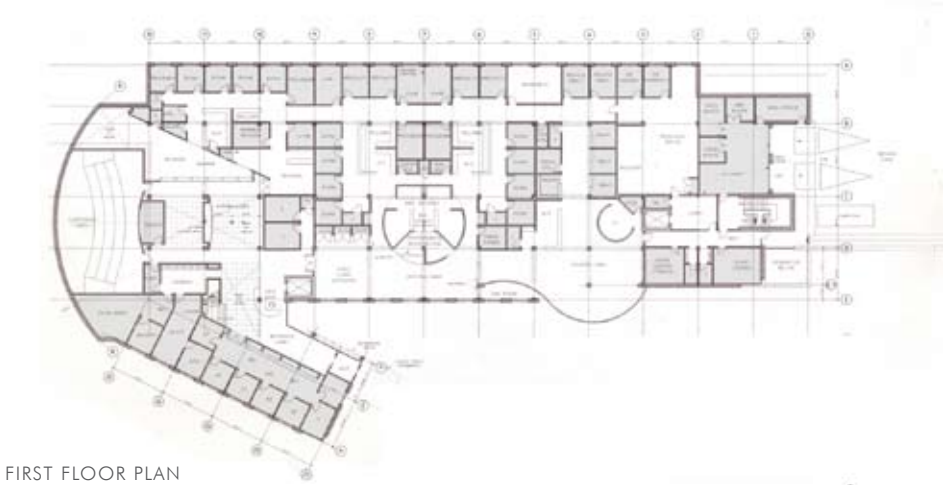
New Brunswick, NJ

A one-time Department of Energy grant seeded the founding of the state's first dedicated cancer research institution. The original limited clinical program was expanded to house a comprehensive research and teaching facility. The 75,000 SF center is a joint venture of the leading NJ research and medical schools. It includes adult and pediatric clinics with specially designed infusion facilities. Additional floors house research laboratories and teaching facilities.

[HILLIER – Frank X Moya, Associate in charge of design]



ENTRY ELEVATION



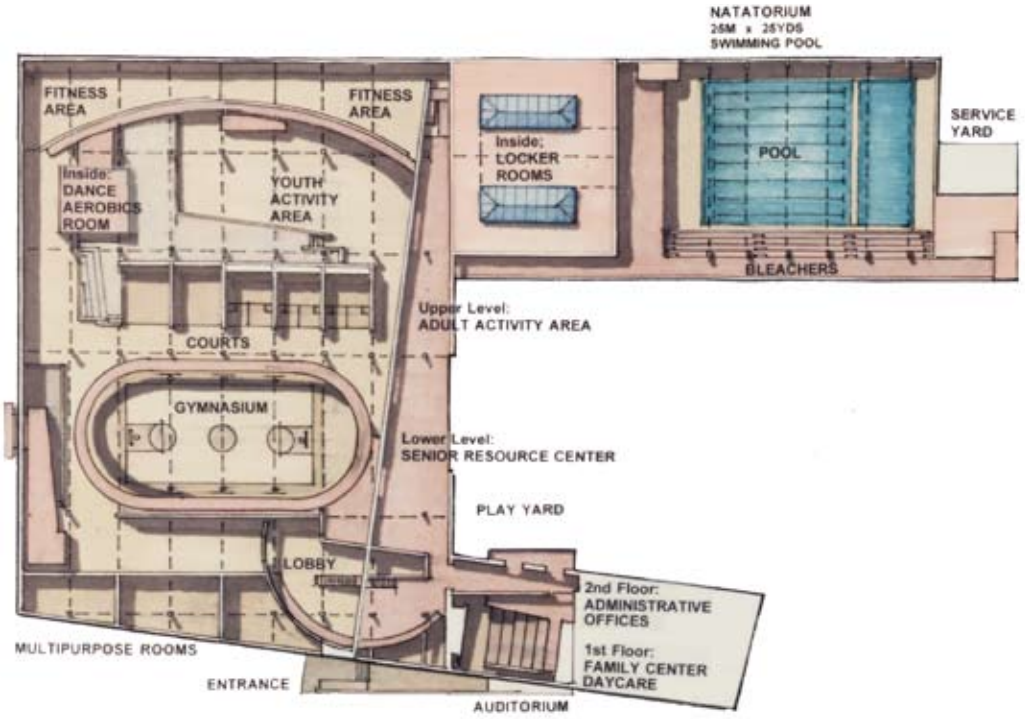
FIRST FLOOR PLAN

PRELIMINARY ENTRY ELEVATION

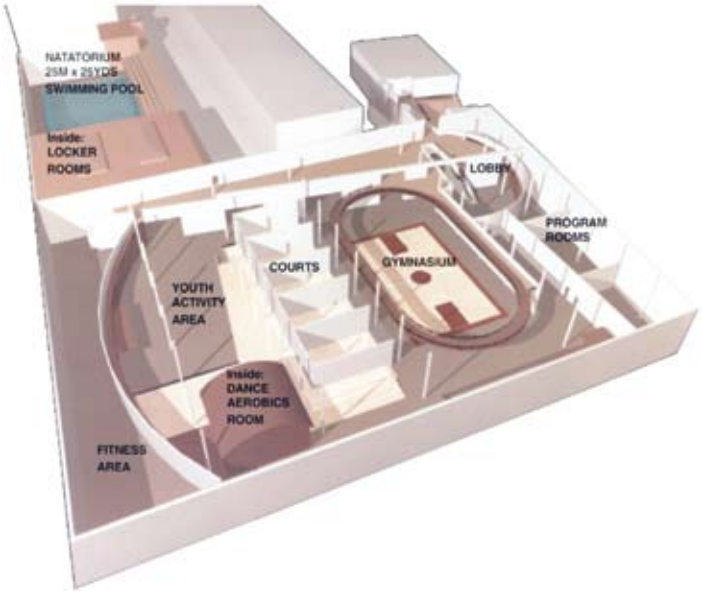
TRENTON AREA FAMILY YMCA
Roebling Complex Feasibility

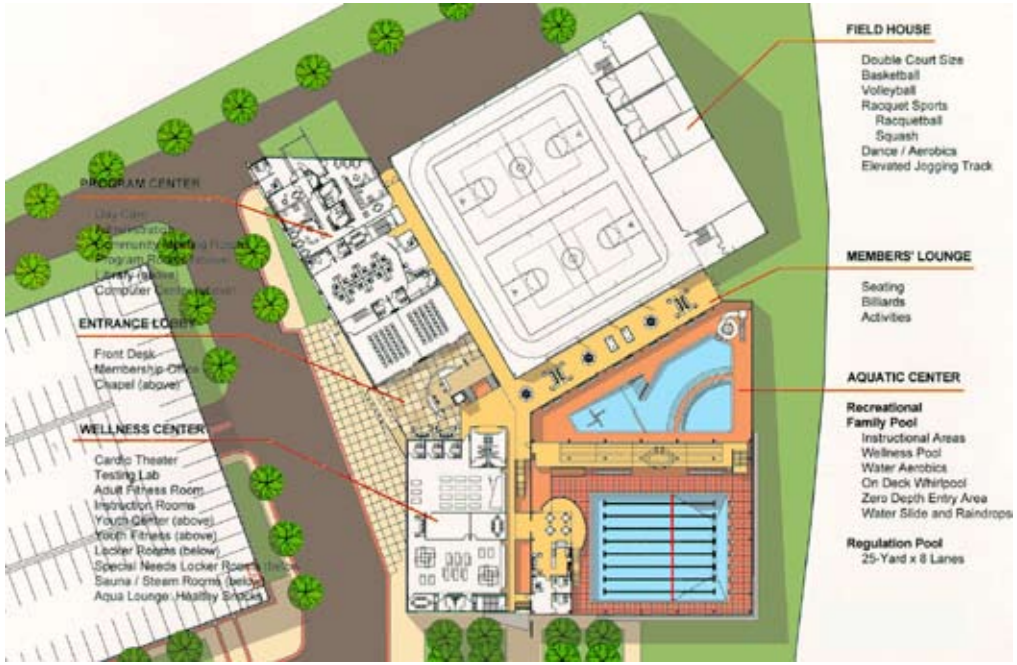
Trenton, NJ

The feasibility report and design for a $6-million full service YMCA center provided for the adaptive reuse of an existing abandoned industrial building located in Trenton's historical Roebling Complex. The new facility was designed to fit completely within the sturdy brick shell of the existing high volume buildings.



GROUND LEVEL PLAN





TRENTON METRO YMCA

Trenton, NJ

The $10-million design for a new, full service YMCA complex include a day care and program center; a wellness center with separate adult and youth areas; a double court field house, and a 5 pool aquatic center. The sloping site led to a design for buildings configured as four interlocking components built on different levels with a combination of site-built and pre-fabricated components.

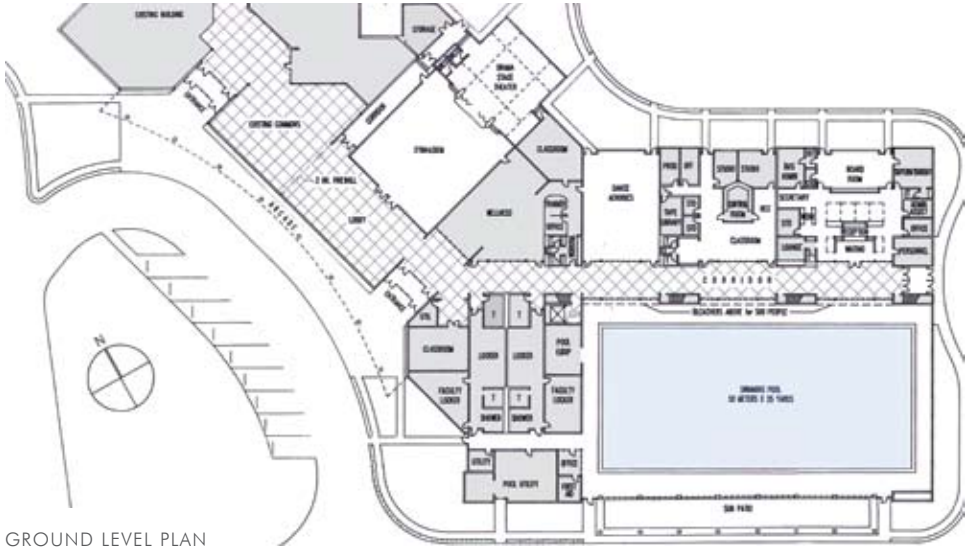
ENTRY ELEVATION

GLOUCESTER INSTITUTE OF TECHNOLOGY
Vocational Wellness and Broadcasting Center

Sewell, NJ

The 84,000 SF addition houses facilities for the newly instituted wellness and broadcasting vocational programs. Its 50m Olympic-size swimming pool with a spectator capacity of 2,000 people is reputed to be among the state's best and fastest. Broadcasting and theater crafts areas were specifically designed to facilitate vocational training through accessible walls and conduits.

[HILLIER – Frank X Moya, Associate in charge of design]



GROUND LEVEL PLAN

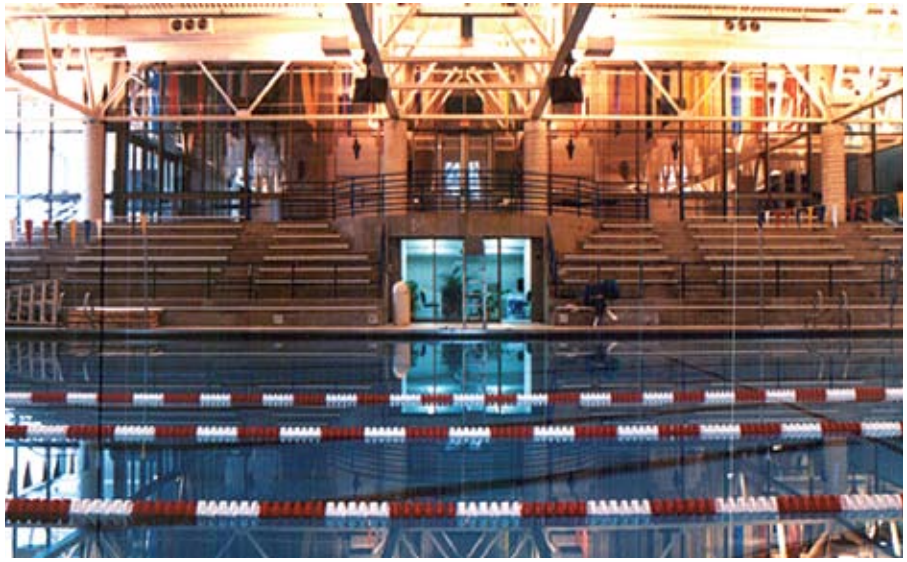
SWIM MEET GATHERING

MORAVIAN COLLEGE
Recreation Center

Bethlehem, PA

This new addition to the existing college gymnasium integrated a custom designed pre-engineered field house with a new entrance and program areas for wellness training.
The facility made use of the sloping site to diminish the field house bulk in relation to the main gymnasium building. The new field house accommodates five multipurpose courts and indoor track. It is design also for additional expansion of a future natatorium.

[HILLIER – Frank X Moya, Associate in charge of design]



OLYMPIC-SIZE POOL SECTION

SETON HALL UNIVERSITY

Recreation Center, Dormitories and Entrance Plaza

South Orange, NJ

As part of a far reaching campus master plan for the South Orange Campus the Recreation Center was one of the first projects built which included in addition new dormitories, new campus pathways, and a new vehicular main entrance gate and plaza. These projects completed the transition of the campus from a mostly commuting student body to a fully residential institution. The master plan later successfully incorporated a new library and teaching facilities.

[HILLIER – Frank X Moya, Associate in charge of design]

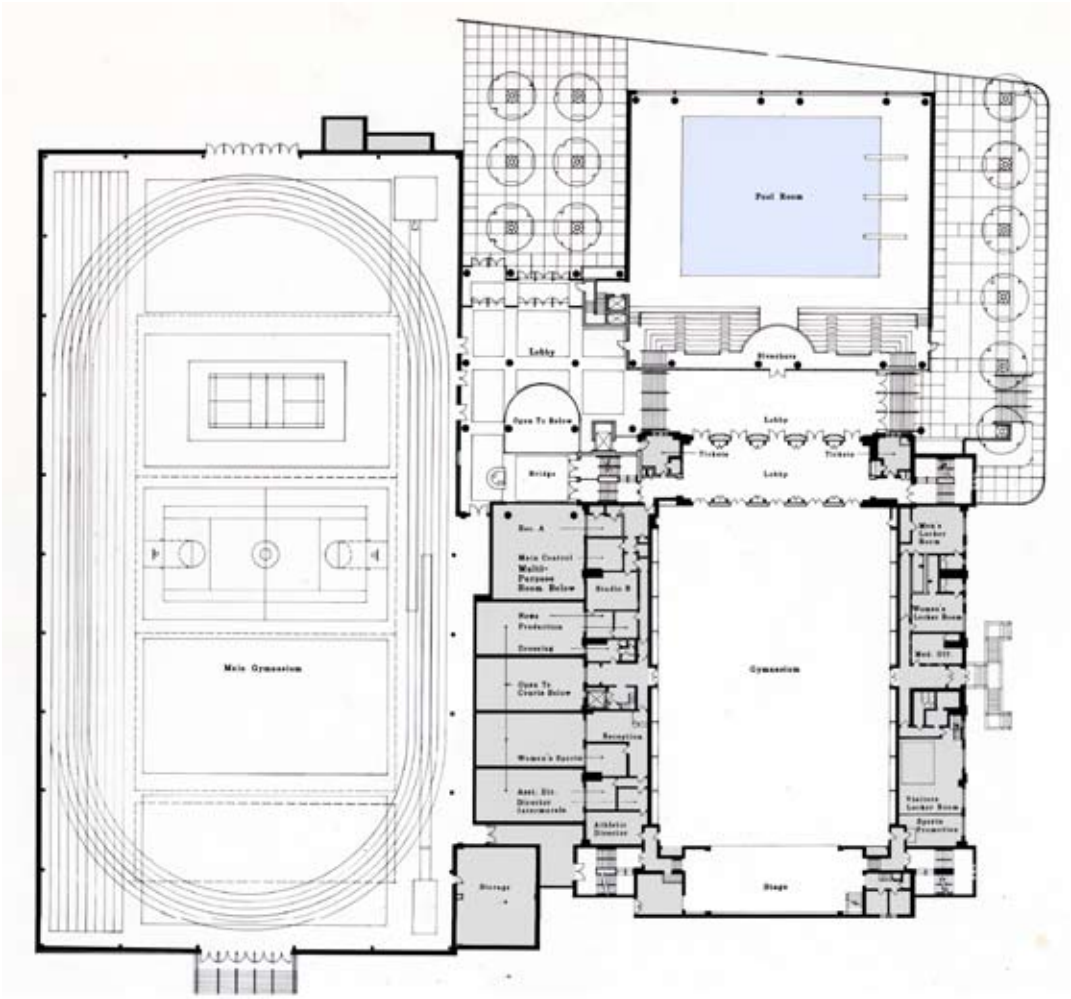
SETON HALL UNIVERSITY

Recreation Center

South Orange, NJ

The 230,000 SF athletic recreation center was designed and built around the existing Walsh Auditorium building, home of the Seton Hall Pirates basketball team. The center boasts a full size indoor NCAA track, multipurpose courts, racquetball, dance, aerobics, weight training, locker rooms and a 25m olympic-size swimming pool. Careful planning allowed for clear line of sight from each venue to the other, further enhancing the sense of openness while retaining a sense of intimacy in the interstitial circulation areas.

[HILLIER – Frank X Moya, Associate in charge of design]



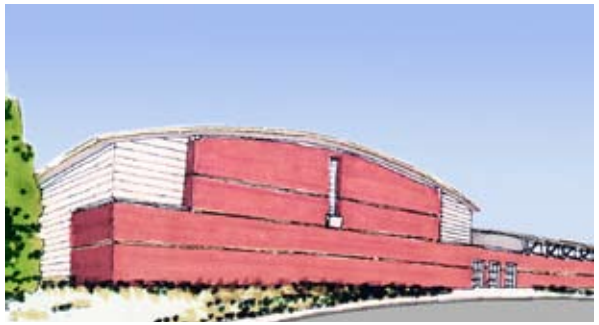
RECREATION CENTER GROUND LEVEL PLAN

LOBBY BALCONIES

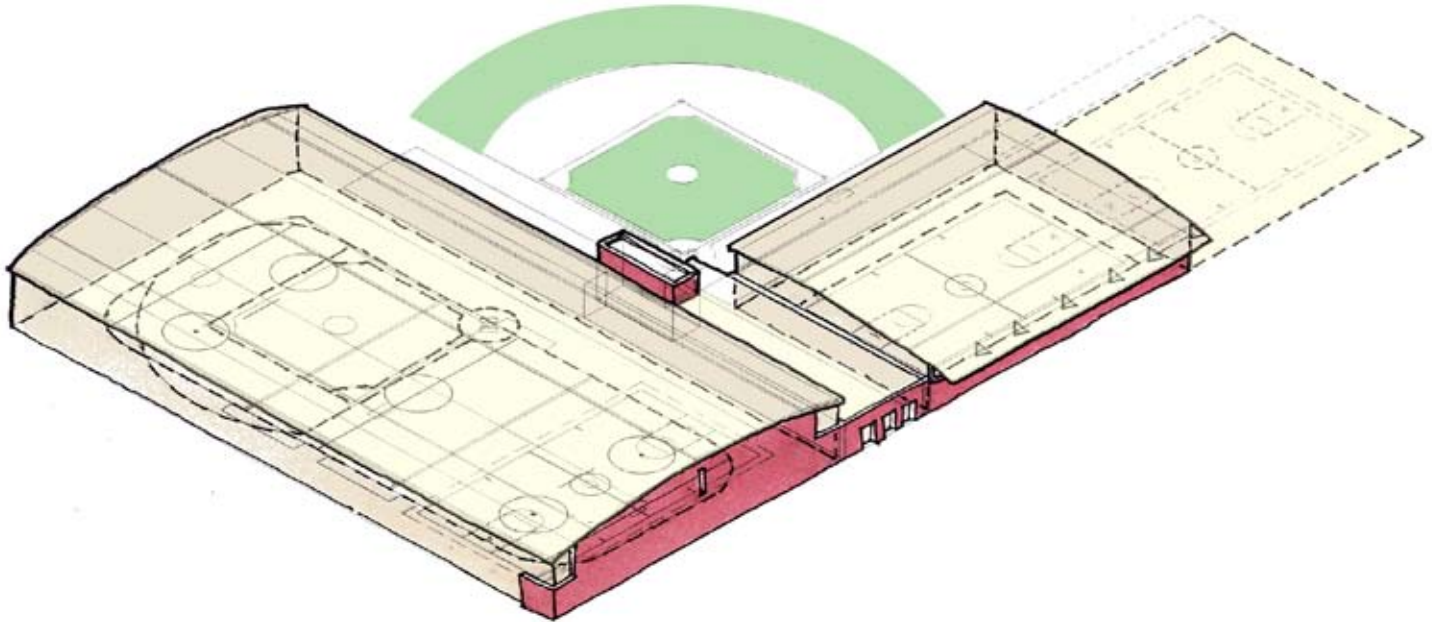
WASHINTON TOWNSHIP
SPORTS AND RECREATION COMPLEX

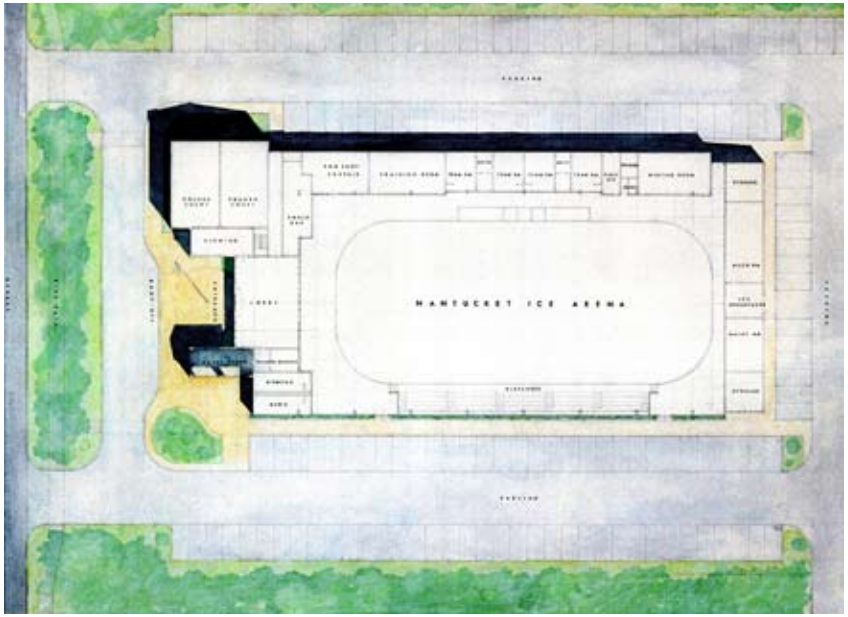
Washington Township, NJ

This proposal for a private, for-profit sport center was intended as a complex of training and instructional facilities staffed by professional sport figures. Designed for multi-seasonal occupancy, it made use of pre-engineered long span structures with enhanced architectural elements.



VIEW OF PUBLIC ENTRANCE

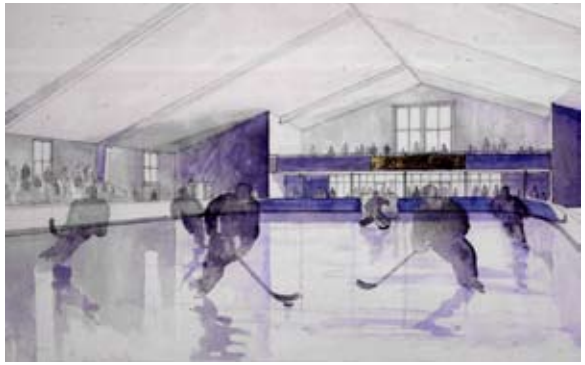




NANTUCKET ICE

Nantucket, MA

In support of a fundraising campaign to build a hockey rink on Nantucket, this project combines a basic rink facility and locker rooms with a racquetball facility and upper level teen activity room to meet other community needs. A value-engineered structure and rink system are enclosed within a well-insulated shell that supports a year-round ice operation. A pair of salt-box structures frames an entry forecourt, creating a community center with a modest civic character. As a frontage piece to the large rink shed, the front uses steeper roof pitches, cedar shingles and other smaller-scaled architectural elements encouraged for approval by the local Historic Districts Commission.



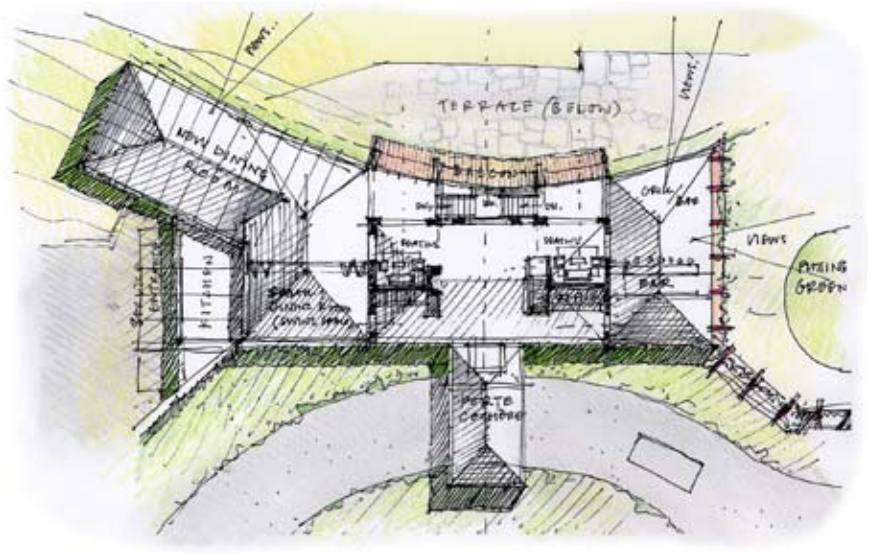
SANKATY HEAD GOLF CLUB
Dining Room Extention

Nantucket, MA

This exclusive Nantucket Golf Club wanted to increase the seating capacity of its dining area, which is divided among several rooms in its semi-rustic 1910-era clubhouse. The need to upgrade perimeter dining room windows offered an opportunity to consider increasing the size of the traditional window panes to enhance the view. While the final solution to increase seating capacity was accomplished by widening the side dining room, one design scheme proposed adding a perimeter trellis structure, whose shadowing would have made larger window panes less-readily apparent. Another scheme, inspired by McKim Mead and White's garden structures at the Casino in Newport, R.I., proposed a diagonal wing of deck and trellis structures projecting off a favorite corner, to capture dramatic views broad-side to the nearby Sankaty Lighthouse.

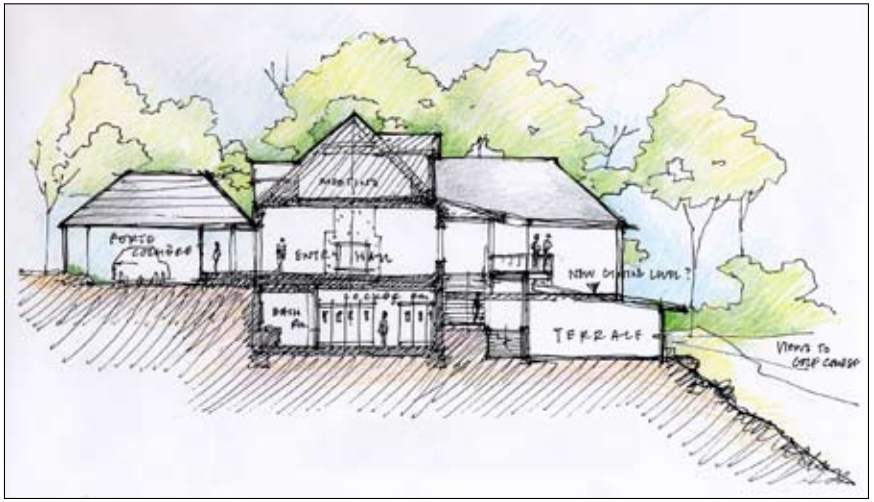
ORIGINAL 1920'S CLUBHOUSE

PROPOSED TRELLIS AT GOLF COURSE ELEVATION



UPPER LEVEL PLAN

HILLSIDE BUILDING SECTION



SUBURBAN GOLF CLUBHOUSE RENOVATION

Union, NJ

From its hillside perch overlooking the prized, Tillinghast design golf course of the 1920's, the clubhouse required clarification of its operational 'back of house' organization and a suitable architectural character to both members areas and its exterior appearance, front and back. A hipped roof-form, a fragment selected from the existing structure, provided the basis of a design strategy that used in multiples with a manageable scale in solving larger-scaled problems. The architectural design modulates the procession from the porte-cocher to the entry hall before dividing left and right, moving toward the view of the golf course, and down to the lower level terrace where members and their families enjoy gathering for lobster dinners on Saturday nights during the summer.

PIER 40 - REINVENTED

New York, NY

This project continues the ongoing planning effort to program and chart a new course for this 16-acre, mid-century pre-container distribution facility. The pier is now used as a parking facility with several ball fields that are very popular with downtown communities. Many uses, such as retail, office or residential are not permitted or considered not suitable for this significant waterfront structure. Community uses, such as public schools, parking and increased sport and recreation uses, are increasingly taking shape with more attention from the Mayor's office. Among a number of planning principles, the Pier 40 project seeks to use vital program activities to directly embrace Hudson River Park that runs past the front of the structure. Likewise, the use of the central courtyard ball fields could form the focus for surrounding building perimeter spaces adapted for school uses with stimulating waterfront views. Several schemes have investigated the design potential of both the court and the rooftop as a continuation of the riverfront park.

EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD CENTER PROTOTYPE

Trenton, NJ

Development of early childhood center prototype for Hispanic Directors Association of NJ. Presented to Senate Committee on Education and the NJ Department of Education. These physical guidelines have been adopted in part by the state of NJ regulations and forms the basis of the firm's work.

MARTIN LUTHER KING JR. SCHOOL and DONALD STEWART SCHOOL

Elizabeth Board of Education and NJ Schools Construction Corporation

Elizabeth, NJ

Two $13-million, 56,000 SF early childhood centers designed to accommodate 300 students each: Classroom modules for 15 kids were designed in clusters of four around colorful internal play areas and age appropriate way-finding organizational graphics. Innovative prototype approach allowed for accelerated site feasibility evaluations, design and construction schedule.

[HACBM Architects, Frank X. Moya, Director of Design]

MERCER FRIENDS ECC

Trenton, NJ

Award winning design for conversion of 8,600 SF existing Synagogue into day care facility for 60 children.
(1998 City of Trenton Preservation Award).

PUERTO-RICAN ACTION BOARD

New Brunswick, NJ

$2.5-million renovation of 3-story warehouse building and exterior play yard for use as a day care center for 220 children.

THE PEOPLE'S CARE CENTER

Trenton, NJ

Code update and feasibility study for early childhood and developmental care center.

PRIMARY and SECONDARY EDUCATION

BEAR TAVERN SCHOOL

Hopewell Valley Board of Education

Hopewell, NJ

Acoustical renovation of existing multi-purpose room and kitchen.

DALTON LOWER SCHOOL - EXTERIOR RESTORATION

New York, NY

Replaced all exterior millwork windows, doors, entry portico with hardware, exterior light fixtures, and related interior coordinations at street exposure of two existing masonry school buildings. Secured approvals from New York City Landmarks Preservation Commission. Construction executed per academic annual schedule.
(with L.Kerr Architect)

DALTON LOWER SCHOOL - EXPANSION

New York, NY

Several feasibility studies made comprehensive reviews of existing conditions, expanded zoning envelope options, internal code requirements and school program requirements. Schematic design floor plans set floor areas defining cost estimates. (project)

DALTON LOWER SCHOOL - LIBRARY

New York, NY

A fully renovated space included shell and material finishes, shelving, built-in millwork and furniture. Construction executed per academic annual schedule.

DALTON PERFORMING ARTS

New York, NY

Full $ 2.4-million renovation included demolition of front portion of floor, new steel structure at relocated corridor and cantilevered tech booth pavilion. New partitions and material finishes, acoustical ceilings, millwork cabinetry, handicap lift, exterior glazing at sidewalk above. New restrooms with new mechanical, and theater-tech lighting, rigging, curtain systems. Construction executed within the academic year.

DALTON SCHOOL - ALUMNI ROOM

New York, NY

Full renovation included new ceiling and lighting, wall paneling and millwork casework, extensive carpeting, audio-visual system. Original chairs were refurbished and upgraded display assets. Construction executed within the academic year.

DALTON SCHOOL - LOBBY

New York, NY

A third of the existing space required demolition. The full $1.3-million renovation included new terrazzo floor, acoustical ceiling, lighting coffer, glass display cases, seating and security desk millwork, with lighting, mechanical, security systems. Construction executed within the academic year.

DALTON SCHOOL DINING and COMMONS

New York, NY

$4.8-million renovation, included demolition of the front half of the floor. New exterior windows and interior glazing walls, partitions and material finishes, acoustical wave ceiling, new restrooms, folding door systems, millwork built-ins and furniture selections with new mechanical, lighting and audio-visual systems. New kitchen layout, new hood and roof-top mechanicals and rolling food-servery carts. Construction executed over a two-year, two phase process within the academic schedule.

KENT PLACE SCHOOL

Summit, NJ

Feasibility studies for rehabilitation of existing historical structures.

NIGHTINGALE SCHOOL LOBBY

New York, NY

Design of millwork display cases for school entrance lobby.

NJ SCHOOL CONSTRUCTION CORPORATION

As part of the state's comprehensive school construction program, design assistance was provided for various site feasibility programs throughout NJ

PARKER, CADWALADER and MONUMENT SCHOOLS
– Trenton Board of Education

NORTH CENTRAL REGIONAL SITE FEASIBILITY CONTRACT
[HACBM Architects, Frank X. Moya, Director of Design]

PROPOSED EARLY CHILDHOOD, ELEMENTARY AND MIDDLE SCHOOLS
– Plainfield Board of Education
[HACBM Architects, Frank X. Moya, Director of Design]

K-5 ELEMENTARY SCHOOL PROTOTYPE
[HACBM Architects, Frank X. Moya, Director of Design]

PROPOSED EARLY CHILDHOOD, ELEMENTARY and MIDDLE SCHOOLS Plainfield Board of Education

Plainfield, NJ

Proposed application of prototypes for 500 student early childhood pre-school, 500 student elementary school and 300 student middle school in close proximity
[HACBM Architects, Frank X. Moya, Director of Design]

STYUVESANT HIGH SCHOOL – INTERACTIVE EXHIBIT

New York, NY

Design process integrated alumni, school administration, students and faculty constituencies for proposed new millwork, interactive and audio-visual exhibit system. (with L.Kerr Architect)

HIGHER EDUCATION

COLLEGE OF NEW JERSEY
Ewing, NJ

Dormitory prototype based on pre-fabricated modular construction for 12, 14 and 15 foot modules. The schemes explored simple arrangements for a compact footprint.

[HILLIER – Frank X Moya, Associate in charge of design]

EVANSTON PUBLIC LIBRARY
Evanston, IL

Sited integral to Northwestern University's campus. The program required the design be constructed in two operationally complete phases.

Phase II included a prominent reading room where a diagonal street meets the site. (design competition with P. Gates Architect)

KEAN UNIVERSITY MASTER PLAN
Union, NJ

In association with Wallace, Roberts & Todd, existing building evaluation study and master plan for state university's two campuses.

LATIN AMERICAN EDUCATIONAL DEVELOPMENT AGENCY
LAEDA Camden Training Center

Camden, NJ

$4.3-million urban revitalization project.

[MOYA+BANTA ASSOCIATED ARCHITECTS]

MORRISTOWN MEMORIAL HOSPITAL
Malcolm Forbes Teaching Amphitheater

Morristown, NJ

As part of the Master Plan for the 505-bed hospital's 25-acre campus. Implemented ambulatory surgery center with MRI facility; building re-cladding and 3-story vertical expansion of patient tower; educational complex, including the Malcom Forbes 300-seat amphitheater and executive board room.

[HILLIER – Frank X Moya, Associate in charge of design]

NEW JERSEY BAR ASSOCIATION
New Brunswick, NJ

37,000 SF Building and interior design. Housing administrative and continuing education programs. Program included auditorium, seminar rooms and law library with integration of extensive AV and IT systems for seminar broadcastings.

[HILLIER – Frank X Moya, Associate in charge of design]

SOFTWARE INSTITUTE - CARNEGIE MELLON UNIVERSITY
Pittsburgh, PA

140,000 SF high-security IT academic research office building with 120-seat auditorium, cafeteria and kitchen, library, and 400-car parking garage. Design mediates between adjacent buildings with Classical, Gothic and Modern architectures. Strategic Defense Initiative program by U.S. Airforce with CMU featured on cover of ARCHITECTURAL RECORD magazine. Recipient of AIA National Honor Award and six other awards.

[Bohlin Cywinski Jackson Architects, Peter Matthews AIA, Lead Designer]

THE PRINCETON CHARTER CLUB
Princeton, NJ

$2,000,000 master plan and feasibility study for historic club house at Princeton University designed by noted Philadelphia architects Mellor, Miegs and Howe. Commended by the client, alumni and municipal preservationists for the seamless impact of the major infrastructure improvements and the complimentary design of the new facilities for both the interior and exterior.

THOMAS EDISON STATE COLLEGE
Trenton, NJ

Design for executive office facility designed accommodate major building addition to the historical Roebling mansion. The scope included facilities for the college's executive staff and alumni.

WILLIAM PATERSON UNIVERSITY
Hunziker Wing Auditorium

Patterson, NJ

Initial planning, evaluation and implementation of two on-campus projects: the Hunziker Wing Auditorium, a $600,000 major interior and exterior gut-rehab transforming a 1960's vintage nursing amphitheater into a state-of-the-art multimedia lecture hall; and the Alumni House renovation in which an old boat house and lake donated recently to the university were designed to serve as a spectacular meeting venue with some facilities dedicated to wildlife study and observation in this natural reserve.

RESEARCH

BOREHOLE / COLUMBIA UNIVESTIY
Lamont Doherty Earth Obsevatory Campus

Palisades, NY

Master plan process suited an expanding academic research program to a full renovation and additions to three existing carriage house structures in a campus setting. Phase I was executed renovating side buildings, new IT center and new hallways linking all structures together. Secured approval from the local architectural review board.

CANCER INSTITUTE OF NJ
University of Medicine and Dentistry of NJ,
Robert Wood Johnson University Hospital, Rutgers University

New Brunswick, NJ

75,000 SF teaching center for joint venture of academic, research institutions. Include adult and pediatric clinics with specially designed infusion facilities. It also feasures additional floors for research laboratories, offices and support facilities as well as a 100-seat auditorium.

[HILLIER – Frank X Moya, Associate in charge of design]

THE SEEING EYE
Water Dillard Kirby Canine Center and Facilities Expansion

Morristown, NJ

Dormitory expansion, new Braille library and wellness center and a 120-dog, three story kennel, complete with training facility building and veterinarian clinic.

[HILLIER – Frank X Moya, Associate in charge of design]

SPORT / RECREATION

GLOUCESTER INSTITUTE OF TECHNOLOGY
Vocational Wellness and Broadcasting Center

Sewell, NJ

84,000 SF program expansion to a growing vocational institution incorporating among many new offerings: Physical and Wellness Program built around new athletic and wellness facilities such as a 50m Olympic-size swimming pool with spectator capacity for 2000 people, reputed to be the best facility of its kind in NJ; Theater Arts Program with a peculiar performing arts facility of limited audience capacity, but with a full size stage house specially designed for facilitating vocational training in the theater crafts, and a Broadcasting Program with radio and television broadcast training facility with working studios.

[HILLIER – Frank X Moya, Associate in charge of design]

MORAVIAN COLLEGE
Recreation Center

Bethlehem, PA

New addition to existing gymnasium with athletic facilities for dance, aerobics and weight training as well as a new field house for five multipurpose courts and indoor track designed to accommodate additional expansion for future natatorium.

[HILLIER – Frank X Moya, Associate in charge of design]

NANTUCKET ICE

Nantucket, MA

Design for proposed community-focused program and schematic design to support year-round hockey mission and fundraising campaign. Historically sensitive design included conventional constructed structures at entry to value engineered rink structure and facility.

PIER 40

New York, NY

Consideration of program options and schematic designs for the 16-acre footprint existing structure.

SANKATY GOLF CLUB

Nantucket, MA

Feasibility study and schematic design options to expand clubhouse dining room involved exterior treatment relative to adjacent golf course links.

SETON HALL UNIVERSITY

South Orange, NJ

Campus master plan and implementation, realized were the following projects: three dormitories totaling 500 beds and 105,000 SF; new campus pathways, plazas and main vehicular entrance; 230,000 SF athletic recreation center with indoor NCAA track, multipurpose courts, racquetball, dance, aerobics, weight training, locker rooms and a 25M Olympic-size swimming pool.

[HILLIER – Frank X Moya, Associate in charge of design]

SUBURBAN GOLF CLUB

Union, NJ

Proposal to fully renovate existing clubhouse entry, living and dining areas and locker rooms on lower level.

TRENTON AREA FAMILY YMCA
Roebling Complex Feasibility

Trenton, NJ

The feasibility report and design for a $6-million full service YMCA center provided for the adaptive reuse of an existing abandoned industrial building located in Trenton's historical Roebling Complex. The new facility was designed to fit completely within the sturdy brick shell of the existing high volume buildings.

TRENTON METRO YMCA

Trenton, NJ

The $10-million design for a new, full service YMCA complex include a day care and program center; a wellness center with separate adult and youth areas; a double court field house, and a 5 pool aquatic center. The sloping site led to a design for buildings configured as four interlocking components built on different levels with a combination of site-built and pre-fabricated components.

TRENTON YMCA

Trenton, NJ

Design for 4,800 SF downtown fitness center.

WASHINTON TOWNSHIP SPORTS AND RECREATION COMPLEX

Washington Township, NJ

This proposal for a private, for-profit sport center was intended as a complex of training and instructional facilities staffed by professional sport figures. Designed for multi-seasonal occupancy, it made use of pre-engineered long span structures with enhanced architectural elements.

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