2012 Exhibition of School Planning and Architecture

Woodrow Wilson High School

Washington, DC
Lee J Brockway Award - Renovation
High School
Architect - cox graae + spack architects

Associate Architect - Fanning Howey

Woodrow Wilson High School Modernization



A Diamond in the Rough

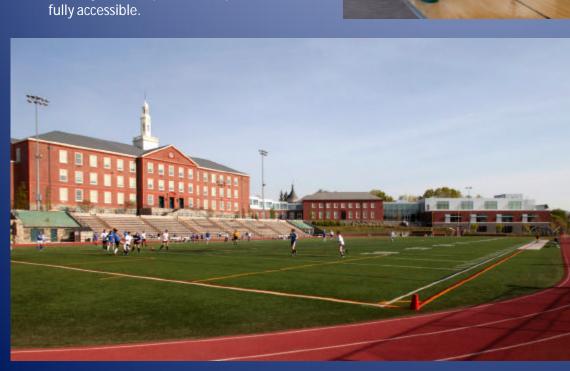
Community Environment:

The rejuvenation of Woodrow Wilson High School brought a decaying, but beloved community landmark into the 21st century.

The competition-winning design renovated 300,000 square feet, reorganized key parts of the campus to promote program synergies, adaptively re-used all of the historic elements, re-purposed underutilized and unused existing spaces, and strategically added 76,000 square feet of infills and additions in a contextually sensitive, yet contemporary style. The once labyrinthine, multi-level connections between buildings were expanded, simplified and made fully accessible.









Old & New

Community Environment:

Woodrow Wilson High School has a history of serving the community, but over the decades the change in academic configuration has caused the public-use space to be poorly arranged. The design re-organized program elements in order to create three centers which can be operated and accessed independently:

Athletic Center

- •Main Gym relocated into the expanded original Auditorium next to the Natatorium
- New Auxiliary Gym with showers and lockers built in excavated space below with direct connection to the Stadium playing field
- •Exercise Facility located on a new floor structure inserted into the re-purposed two story interior of the Power Plant

Visual and Performing Arts Center

- •New Auditorium relocated to the old Gymnasium.
- New central lobby with direct access to Choral Arts/Dance, Black Box and Auditorium
- •Underground parking for school's day use and afterhours community use of the Center

Academic Center

- •Relocating the busy major public and support spaces to the lowest floor so that academic floors could be consolidated above.
- •Developing a clear and inviting school arrival and entrance point where once there were three narrow and inaccessible.





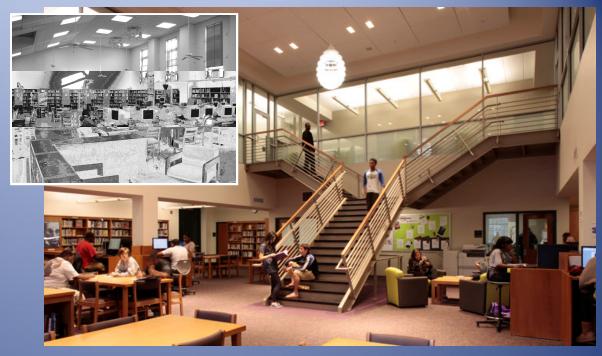
World Class Facilities

Learning Environment:

The original 1935 Gym was converted to a single level library in the 1970s. The new design took advantage of the generous 2-story height for the Black Box Theater and Choral Room on one side and a new two-level Media Center with adjacent Computer Labs, Cyber Café and Media Production facility.

The original Gym was converted to a full performance 850-seat auditorium with the addition of thrust and back stages, scene shop, dressing rooms, band room, music and practice rooms.

The 2D and 3D art rooms were expanded and designed to provide access to an adjacent outdoor Arts Terrace.





Academy Approach

Learning Environment:

Despite limitations of the physical environment, Wilson has developed a highly successful academy program. The design of the modernization transforms the existing main building into a series of schools-within-a-school, which align the building program with the current curriculum.

Schools-Within-A-School
Each academy is designed to create a selfcontained learning environment including
dedicated space for academy-level
administration, classrooms, science labs, resource
rooms, and teaming space.





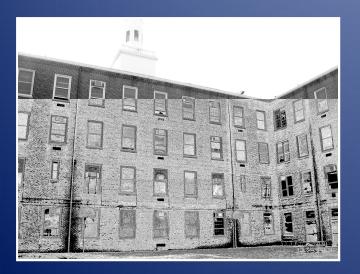


Breathtaking Transformations

Physical Environment:

The crowning glory of the newly modernized Wilson is the Crossroads, a once unfriendly outdoor courtyard in the center of the Academic Building that is now transformed into the heart of the school as a central atrium space with a uniquely dramatic skylight.

This 10,000 sf four-story space is the gateway to the Campus from the school's new main entrance. It is accessible on all sides from primary cross-campus circulation pathways, and provides a new major venue for school and community functions. Students frequently meet in this sunlit and landscaped environment to collaborate and socialize between classes and during the lunch hour.





Sustainable Future

Physical Environment:

Wilson is designed and constructed to achieve LEED Gold certification. Important sustainable features were creatively woven into to the historic fabric yet in such a way that they could also serve as teaching tools.

Sustainable highlights include:

- 90% re-use of existing structures
- Rainwater collection for graywater use
- Photovoltaic panels
- Extensive green Roofs
- Ultra-low flow plumbing fixtures
- Pervious paving systems
- Energy efficient mechanical systems







GCS SIGAL LLC FANNING THOWEY



Energy and Atmosphere



Indoor Environmental









A Community Effort

Planning Process:

Integral to the success of Wilson's modernization was the extensive formalized engagement of the school and community throughout programming, design and construction. Regular presentations, meetings, design charrettes, and workshops with student representatives, faculty, school administration, the Chancellor's Office, parent organizations, community associations and commissions and many other stakeholders ensured an informed and collaborative process.

Through these sessions with the school and its community the district's generic Educational Specifications were tailored to address Wilson's unique requirements and lead to the vision of creating schools-within-a-school to support the existing learning academies.







Respecting the Past

Planning Process:

Woodrow Wilson High School was constructed between 1934-1935 in a Georgian Revival style. The initial design was begun by DC Municipal Architect Albert L. Harris, and then largely completed by Municipal Architect Nathan C. Wyeth after Harris's. The design was closely overseen by the Commission of Fine Arts who pushed for a high-quality architectural design to be appropriate for the school's commanding site in the nation's capital.

An additional challenge for the already complex modernization project was successfully navigating the District's very robust review and approvals process for landmarked historic structures. The detailed restoration and careful adaptive re-use of existing structures, and the sensitive insertion of new construction required working closely with the U.S. Commission of Fine Arts and the DC Historic Preservation Review Board.

The project was recently recognized with the prestigious State Historic Preservation Officer's Award from the District of Columbia's Office of Historic Preservation and the District of Columbia Preservation League. DC Mayor Vincent Gray praised the preservation efforts at Wilson as "a shining example of transforming a historic campus into a first-class facility with an extraordinary design."







Exhibition of School Planning and Architecture Project Data

Submitting Firm :	cox graae + spack architects
Project Role	Architect
Project Contact	Christoffer Graae, AIA LEED AP
Title	Principal
Address	2909 M Street NW
City, State or Province, Country	Washington, DC
Phone	202.965.7070

Joint Partner Firm:	Fanning Howey
Project Role	Associate Architect
Project Contact	Ed Schmidt
Title	Principal
Address	210 N Lee Street, Suite 208
City, State or Province, Country	Alexandria, VA
Phone	703.519.9822

Other Firm:	DCPEP – JV of Brailsford & Dunlavey and McKissack & McKissack
Project Role	Project Management
Project Contact	Beth Penfield
Title	Project Manager
Address	1140 Connecticut Ave NW, Suite 400
City, State or Province, Country	Washington, DC
Phone	202.266.3433

Construction Firm:	GCS SIGAL, LLC
Project Role	GC (modified Design-Build)
Project Contact	Kerric Baird
Title	Senior Vice President
Address	2231 Crystal Drive, Suite 200
City, State or Province, Country	Arlington, VA
Phone	703.302.1552

Exhibition of School Planning and Architecture Project Details

Project Name	Woodrow Wilson High School Modernization
City	Washington, DC
State	Washington, DC
District Name	District of Columbia Public Schools
Supt/President	Kaya Henderson, Chancellor
Occupancy Date	August 2011
Grades Housed	9-12
Capacity(Students)	1600
Site Size (acres)	10.34
Gross Area (sq. ft.)	376,500 sf
Per Occupant(pupil)	235 sf / student
gross/net please indicate	gross
Design and Build?	Yes
lf yes, Total Cost:	\$95 million
Includes:	hard cost and FF&E
lf no,	
Site Development:	
Building Construction:	
Fixed Equipment:	
Other:	
Total:	

























