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<u>Project</u>	<u>Funding Type</u>	<u>Five-Year Plan Total (\$ 000s)</u>
Boiler Plant Refurbishment	bonded	\$25,000
Central Chiller Plant	bonded	\$33,220
Electric Distribution Campus-Wide	bonded	\$35,437
Steam Distribution System Upgrade	bonded	\$15,283
Klapper Hall Mechanical Upgrade	bonded	\$34,500
Remsen Hall Upgrades Phase II	bonded	\$100,000
Fitzgerald Gymnasium Renovation Phase I	bonded	\$116,000
Five-Year Plan Total		\$359,440

City Reso-A Requests FY 2019 (City Council and Borough Presidents)

<u>Project</u>	<u>FY 2019 Request (\$ 000s)</u>
Department of Theater, Drama and Dance Renovation	\$3,200
Biology Core Facility Renovations	\$1,000
Cyber Security/Business Processes Center	\$1,000
School of Music Library Upgrade	\$2,200
Reprographics/Print Shop Modernization	\$1,200
Reso-A FY 2019 Request Total	\$8,600

Statement and Statistics

President Felix V. Matos Rodriguez

Since opening in 1937, Queens College has been dedicated to the idea that a first-rate education should be accessible to talented people from all backgrounds. The college prepares students to become leading citizens of our global society by offering a rigorous education in the liberal arts and sciences under the guidance of a faculty dedicated to teaching and scholarship. Students graduate with the ability to think critically, address complex problems, explore various cultures, and use modern technologies and information resources. In the last three years, 12 of our students received the prestigious Fulbright award, an achievement that underscores the quality of our students and our faculty.

Queens College is an undisputed academic leader in New York City and New York State. We have more computer science majors than any other college in the city, as well as the third-largest number of accounting and business students in New York State. The college recently opened a Tech Incubator for businesses and is part of NYC’s Tech Talent Pipeline program offering highly paid competitive tech internships for students. Our Division of Education has graduated more teachers, counselors, school psychologists, and school leaders than any college in the metropolitan area. Our acclaimed Aaron Copland School of Music offers students a fine liberal arts education with conservatory-level training. Our School of Earth and Environmental Studies and the Barry Commoner Center play key roles in city and state environmental initiatives.

The college offers over 170 undergraduate and graduate programs and continues to develop innovative new ones, such as the Social Practice Art, MFA and majors in Chinese, Data Analytics and Applied Social Research, Media Studies, Photonics, and Risk Management. The Kupferberg Center for the Arts (KCA) continues to be a cultural hub for Queens. With 300,000 participants annually at 500 events on and off campus, KCA offers a vast array of programs reflective of the diversity of the borough’s population, including nationally and internationally renowned artists in the borough’s largest concert hall, the 2,100-seat Colden Auditorium.

Our beautiful 80-acre campus—the second-largest campus in New York City—has a traditional tree-lined quad, a network of winding paths, broad plazas, a fountain, and century-old Spanish-style buildings that coexist harmoniously with new buildings such as the high-tech Powdermaker Hall. As the only CUNY college that participates in highly competitive Division II sports, we are always upgrading our athletic facilities.

In 2009, the college opened its first residence hall, the Summit Apartments. Located in the heart of the campus, this 506-bed facility has study lounges on each floor, a fitness center, laundry, high-speed wireless access, basic cable TV, and music practice rooms. In keeping with Queens College's commitment to sustainability, for which it has earned inclusion in The Princeton Review's Guide to 322 Green Colleges, the Summit achieved Gold LEED-certification for its green features.

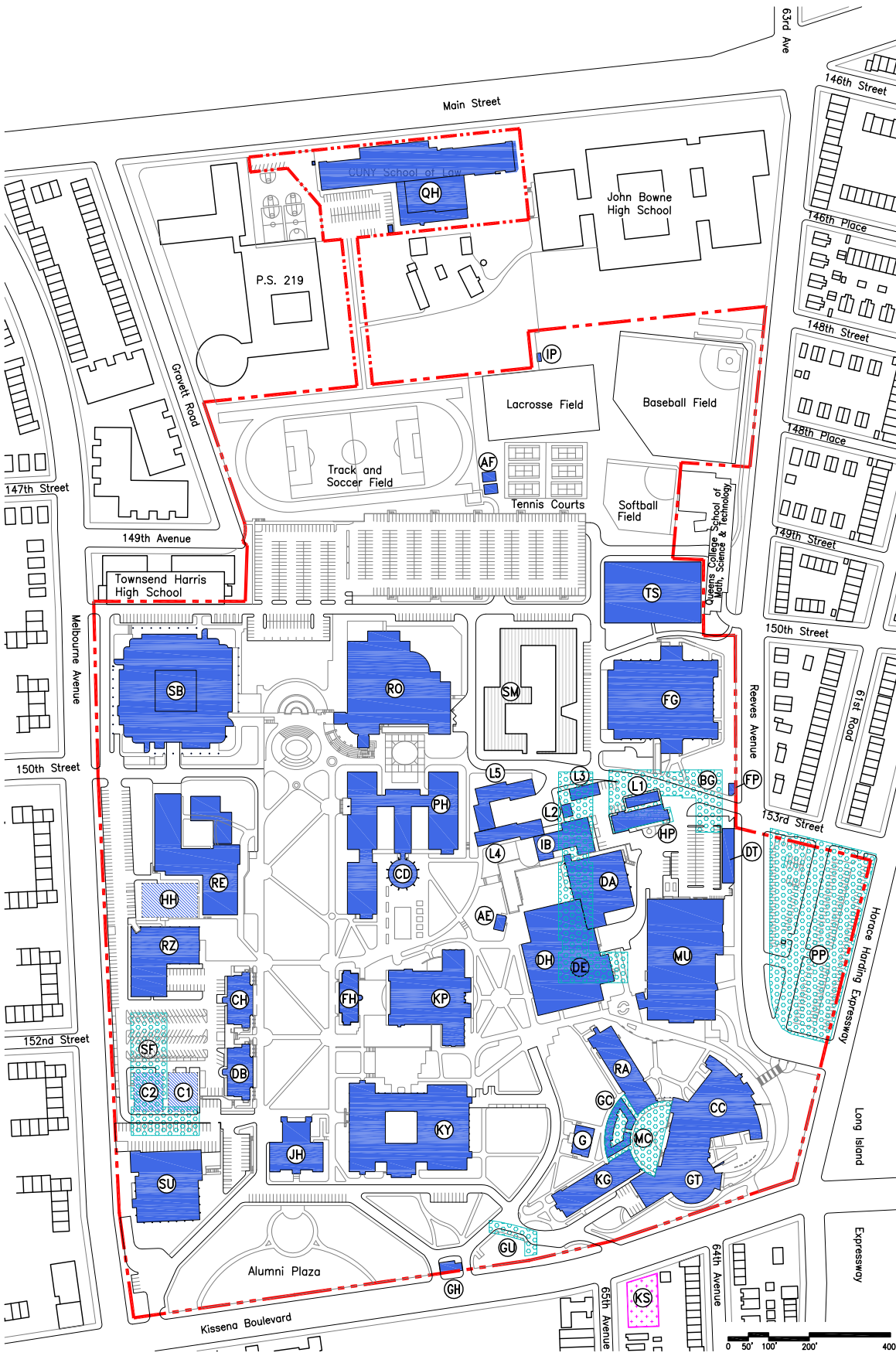
An update to the Queens College Master Plan was approved by the Board of Trustees of The City University of New York in 2006. This capital budget request is based on the recommendations of that plan and supports the college’s strategic plan goals of facilitating student success, fostering faculty scholarship and research, and strengthening our organizational capacity and infrastructure.

Master Plan / Enrollment Information		Net Assignable Square Footage (NASF)	
Original Master Plan Approved:	1978	Owned Occupied:	1,371,004
Master Plan Amendment Approved:	2006	Owned Vacant:	1,662
Master Plan Projected FTES:	12,772	Leased / Temp:	52,797
Fall 2016 FTES:	15,121	Non-CUNY:	12,263
Master Plan Approved NASF:	1,485,713	Total NASF:	1,437,726

State Senate District:	16	City Council District:	24
State Assembly District:	25	City Community Board:	Queens CB 8

BUILDING KEY

- AE ALUMNI HALL / ENTREPRENEURSHIP CENTER
- AF ATHLETIC FIELD HOUSE
- BG BUILDINGS & GROUNDS FACILITY/CHILLER PLANT (FUTURE)
- C1 CEP-1
- C2 CEP-2
- CC COLDEN AUDITORIUM
- CD CAMPBELL DOME
- CH LAURA ARTHUR COLWIN HALL
- DA DINING HALL ADDITION
- DB LLOYD T. DELANY HALL
- DE DIVISION OF EDUCATION FACILITY (FUTURE)
- DH DINING HALL
- DT DASNY TRAILER
- EX EXTENSION CENTER (OFF-SITE)
- FC FLUSHING CENTER FOR HIGHER EDUCATION (OFF-SITE)
- FG FITZGERALD GYMNASIUM
- FH VIRGINIA FRESE HALL
- FP FUEL OIL PUMP HOUSE
- G G BUILDING
- GC GERTZ SPEECH CLINIC
- GH GUARD HOUSE
- GT GOLDSTEIN THEATER
- GU GUARD HOUSE (FUTURE)
- HH HONORS HALL
- HP HEATING PLANT
- IB I BUILDING
- IP IRRIGATION PUMP HOUSE
- JH JEFFERSON HALL
- KG KING HALL
- KP PAUL KLAPPER HALL
- KS KISSENA HALL
- KY MARGARET KIELY HALL
- L1 L-1 B&G ADMINISTRATION
- L2 L-2 B&G LOCKERS
- L3 L-3 B&G LABORERS & STATION ENGINEERS
- L4 L-4 B&G SHOP & STORAGE
- L5 L-5 B&G EQUIPMENT
- LA LOUIS ARMSTRONG HOUSE (OFF-SITE)
- MC MEDIA CENTER (FUTURE)
- MU SCHOOL OF MUSIC
- PH POWDERMAKER HALL
- PP PARKING FACILITY (FUTURE)
- QH QUEENS HALL
- RA RATHAUS HALL
- RE REMSEN HALL
- RO BENJAMIN ROSENTHAL LIBRARY
- RZ GREGORY RAZRAN HALL
- SB SCIENCE BUILDING
- SF SCIENCE FACILITY (FUTURE)
- SM THE SUMMIT (NON-CUNY FACILITY)
- SU STUDENT UNION
- TS TENNIS STRUCTURE



LEGEND

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|---------------------|--|----------------------|--|
| EXISTING FACILITIES | | TEMPORARY FACILITIES | |
| LEASED FACILITIES | | FUTURE FACILITIES | |
| NON-CUNY FACILITIES | | PROPERTY LINE | |



QUEENS COLLEGE

Queens College

Five-Year Capital Plan FY 2018-19 through FY 2022-23

Projects in priority order / costs in \$ thousands

Project Name	FY 18-19 Phase Req.	FY 19-20 Phase Req.	FY 20-21 Phase Req.	FY 21-22 Phase Req.	FY 22-23 Phase Req.	Five-Year Need
(B) Boiler Plant Refurbishment	DC \$7,000	C \$12,000	C \$6,000			\$25,000
(B) Central Chiller Plant	C \$10,000		C \$23,220			\$33,220
(B) Electric Distribution Campus-Wide		C \$35,437				\$35,437
(B) Steam Distribution System Upgrade		C \$2,000	C \$2,000	C \$11,283		\$15,283
(B) Klapper Hall Mechanical Upgrade		D \$2,800	C \$31,700			\$34,500
(B) Remsen Hall Upgrades Phase II		DC \$10,000		CE \$90,000		\$100,000
(B) Fitzgerald Gymnasium Renovation Phase I		DC \$6,000		C \$110,000		\$116,000
Subtotal	\$17,000	\$68,237	\$62,920	\$211,283	\$0	

Five-Year Plan Total

\$359,440

Project Descriptions

<p>(B) Boiler Plant Refurbishment</p> <p>The college central boiler plant consists of four high-pressure steam boilers: three rated at 29,000 lbs/hr and one rated at 60,000 lbs/hr. The three 29,000 lbs/hr boilers are 50 years old and are in fair condition with the exception of several critical components such as burner controls and flame safeties. In phases, this project will refurbish the three boilers by replacing critical components and upgrading the remaining equipment to extend the life of the boiler system. This will include replacement of burners and management controls, boiler trim, fuel train and flame safety. The components will be upgraded to fully metered technology for increased efficiency and energy savings. The oversized 60,000 lbs/hr boiler will be replaced with a properly sized unit. Phase I of project is in design.</p> <p>Anticipated Completion: July 2020</p>	<p>Total Project Cost</p> <p style="text-align: right;">\$30,000</p> <p>Prior Funding Received</p> <p style="text-align: right;">\$5,000</p> <p>Five-Year Need</p> <p style="text-align: right;">\$25,000</p> <p>Funds to Complete</p> <p style="text-align: right;">\$0</p>
<p>(B) Central Chiller Plant</p> <p>The project will provide chilled water for air conditioning to all campus buildings, eliminating the need for multiple chillers at individual buildings. Phase I is in construction and will install one 1,400-ton central chiller and new piping to the Music Building, Dining Hall, Rosenthal Library and Razran Hall. This request is for funding for Phases II and III. Phase II will provide a second chiller associated cooling tower and chilled water to the New Science Building, Powdermaker Hall, Remsen Science and Frese Hall. New 480-V electrical service to the plant will be installed. Phase III will construct a small addition to house two additional chillers, install two associated cooling towers and run chilled water to seven additional facilities, using piping installed in previous phases.</p> <p>Anticipated Completion: November 2021</p>	<p>Total Project Cost</p> <p style="text-align: right;">\$48,000</p> <p>Prior Funding Received</p> <p style="text-align: right;">\$14,780</p> <p>Five-Year Need</p> <p style="text-align: right;">\$33,220</p> <p>Funds to Complete</p> <p style="text-align: right;">\$0</p>

Note: (B) = Major Bonded Project, (R) = Minor Rehabilitation Project
A = Acquisition, D = Design, C = Construction, E = Equipment

Queens College

<p>(B) Electric Distribution Campus-Wide</p> <p>A significant section of the campus remains on an outdated Con Edison 4160-V distribution system that is unreliable, leading to frequent power outages. This project will upgrade the remaining campus electric service to the new 27-kVA Con Edison distribution system that supports most of the campus.</p> <p>Anticipated Completion: January 2021</p>	<p>Total Project Cost \$36,000</p> <p>Prior Funding Received \$563</p> <p>Five-Year Need \$35,437</p> <p>Funds to Complete \$0</p>
<p>(B) Steam Distribution System Upgrade</p> <p>The high-pressure steam line carrying heat to the buildings on campus is experiencing frequent leaks. The system needs to be replaced to avoid a major rupture that would require steam service to be shut down across the campus. This project will upgrade the steam lines, including replacing the crossover and shut-off valves, expansion joints, headers, pressure-reducing valve stations and separators and stop-valves in the main campus boiler room. Also, the project will upgrade the campus utility tunnel system superstructure and will install mechanical ventilation systems in the steam tunnel. Critical maintenance funds are being applied toward the design and construction of this project and repair of the more urgent areas.</p> <p>Anticipated Completion: October 2021</p>	<p>Total Project Cost \$22,600</p> <p>Prior Funding Received \$7,317</p> <p>Five-Year Need \$15,283</p> <p>Funds to Complete \$0</p>
<p>(B) Klapper Hall Mechanical Upgrade</p> <p>Klapper Hall contains the main classrooms for art and humanities, painting, ceramics, photography and museum space in addition to general classroom spaces. The exhaust system, control system and air-supply systems in this building need a major upgrade. Most mechanical infrastructure is exposed to the elements on the roof and rapidly deteriorating. This project will replace the HVAC infrastructure and connect this building to the campus central chiller plant.</p> <p>Anticipated Completion: January 2022</p>	<p>Total Project Cost \$34,500</p> <p>Prior Funding Received \$0</p> <p>Five-Year Need \$34,500</p> <p>Funds to Complete \$0</p>
<p>(B) Remsen Hall Upgrades Phase II</p> <p>This project will continue to upgrade, modernize and reorganize the college's science facilities as recommended by the 2006 Master Plan. This phase will renovate the 168,000-square-foot Remsen Hall by backfilling instructional labs vacated in the Phase I project. Renovated and reorganized lab space will accommodate core research facilities and instructional labs for chemistry, urban ecosystems, the Center for the Study of Biology of Natural Systems, the Department of Family, Nutrition and Exercise Science and classroom and office space to support these departments, as well as two large lecture halls. Windows, masonry, circulation areas, bathrooms, mechanical systems and the roof also will be upgraded.</p> <p>Anticipated Completion: July 2023</p>	<p>Total Project Cost \$229,000</p> <p>Prior Funding Received \$1,658</p> <p>Five-Year Need \$100,000</p> <p>Funds to Complete \$127,342</p>

Note: (B) = Major Bonded Project, (R) = Minor Rehabilitation Project
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Queens College

<p>(B) Fitzgerald Gymnasium Renovation Phase I</p> <p>Fitzgerald Gymnasium has been used for physical education, academic programs such as Family, Nutrition and Exercise Science, recreation and competitive sports for nearly 60 years. The 175,000-square-foot facility, which lacks air conditioning, requires extensive exterior and interior renovations and mechanical systems upgrades to meet the functional and instructional requirements of the college. This phased project will upgrade interiors, plumbing, mechanical, lighting and electrical systems, water and waste lines as well as the pool facility. Recent upgrades included replacement of main and auxiliary gym floors and ADA upgrades to select restrooms. The roof is in design to be replaced next.</p> <p>Anticipated Completion: February 2023</p>	<p>Total Project Cost</p> <p>\$157,000</p> <p>Prior Funding Received</p> <p>\$21,900</p> <p>Five-Year Need</p> <p>\$116,000</p> <p>Funds to Complete</p> <p>\$19,100</p>
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Queens College

City Reso-A Requests FY 2019 (City Council and Borough Presidents)

In priority order / costs in \$ thousands

<p>Department of Theater, Drama and Dance Renovation Phase: DCE</p> <p>The department requires specialized instructional spaces for its disciplines, which include Acting/Performance, Set, Lighting, Costume, Sound and Projection Design, Theater Technology, and Directing. Presently there are no specialized or dedicated classrooms for these disciplines. This project will create approximately 6,000 square feet of modern instructional, dance studio and practice spaces in Rathaus Hall for the department.</p> <p>Anticipated Completion: April 2021</p>	<p>FY 2019 City Request</p> <p>\$3,200</p>
<p>Biology Core Facility Renovations Phase: DCE</p> <p>This project will create a 700-square-foot, modern and efficient Core Biology facility in the Science Building for use by researchers and students in Biology and other science disciplines including Chemistry, Physics and Psychology. The project will convert an outdated research/instructional lab suite currently dedicated to Histology.</p> <p>Anticipated Completion: April 2021</p>	<p>FY 2019 City Request</p> <p>\$1,000</p>
<p>Cyber Security/Business Processes Center Phase: DCE</p> <p>Approximately 1,000 square feet in the "I" Building will be upgraded and new equipment purchased to provide facilities for developing and testing technological solutions to campus business processes and enhancing overall college network security. The space, whose infrastructure will be supported by the existing campus data center, will provide a suitable technology platform and an educational opportunity for the Queens College Technology Incubator to accelerate students' exposure to state-of-the-art information technology operations.</p> <p>Anticipated Completion: December 2020</p>	<p>FY 2019 City Request</p> <p>\$1,000</p>
<p>School of Music Library Upgrade Phase: DCE</p> <p>The Music Library was built in 1990 and has not been renovated or updated, with the exception of the circulation desk and listening area/media center. The proposed renovations and repurposing of the Music Library is a response to the changing functions of academic libraries which have evolved from spaces housing predominantly print collections into spaces where print, electronic, and multi-media collections coexist and people collaborate in flexible and technologically enhanced facilities.</p> <p>Anticipated Completion: July 2020</p>	<p>FY 2019 City Request</p> <p>\$2,200</p>
<p>Reprographics/Print Shop Modernization Phase: DCE</p> <p>This project will modernize the campus Reprographics/Print Shop and equipment to better serve campus needs and provide for a full digital press capacity. Modern digital print hardware and a print management system will reduce the printing costs and increase production capacity; digital technology will reduce waste and enable better management of printing expenditures through the use of web-to-print workflow solutions. Supporting facility infrastructure upgrades will not be significant, as the new, efficient equipment will task HVAC systems much less.</p> <p>Anticipated Completion: June 2020</p>	<p>FY 2019 City Request</p> <p>\$1,200</p>
<p>City Reso-A Request FY 2019 Total \$8,600</p>	

Note: (B) = Major Bonded Project, (R) = Minor Rehabilitation Project
A = Acquisition, D = Design, C = Construction, E = Equipment

