I - FACILITY PROGRAM DOCUMENT

Steven J. Green School of International Public Affairs
Phase - II

BT- 887

Florida International University
Modesto A. Maidique Campus
July 16, 2018
## II. TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Sections</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGNATURE SHEET</td>
<td>III</td>
</tr>
<tr>
<td>Facility Program Committee</td>
<td></td>
</tr>
<tr>
<td>INTRODUCTION</td>
<td>IV</td>
</tr>
<tr>
<td>ACADEMIC PLAN</td>
<td>V</td>
</tr>
<tr>
<td>SPACE NEEDS ASSESSMENT</td>
<td>VI</td>
</tr>
<tr>
<td>ANALYSIS OF IMPACT ON MASTER PLAN</td>
<td>VII</td>
</tr>
<tr>
<td>SITE ANALYSIS</td>
<td>VIII</td>
</tr>
<tr>
<td>PROGRAM AREA</td>
<td>IX</td>
</tr>
<tr>
<td>Facilities List</td>
<td></td>
</tr>
<tr>
<td>Adjacency Diagrams</td>
<td></td>
</tr>
<tr>
<td>Functional Description of Space Details</td>
<td></td>
</tr>
<tr>
<td>UTILITIES IMPACT ANALYSIS</td>
<td>X</td>
</tr>
<tr>
<td>INFORMATION/ COMMUNICATION RESOURCE REQUIREMENTS</td>
<td>XI</td>
</tr>
<tr>
<td>FIU Building Standards: Appendix “C” – Telecommunications Wiring Standards</td>
<td></td>
</tr>
<tr>
<td>CODES AND STANDARDS</td>
<td>XII</td>
</tr>
<tr>
<td>Building Standards</td>
<td></td>
</tr>
<tr>
<td>Architectural Parameters</td>
<td></td>
</tr>
<tr>
<td>Barrier Free Design</td>
<td></td>
</tr>
<tr>
<td>Site Development and Campus Integration</td>
<td></td>
</tr>
<tr>
<td>Environmental Systems</td>
<td></td>
</tr>
<tr>
<td>Furniture Standards and Equipment</td>
<td></td>
</tr>
<tr>
<td>PROJECT SCHEDULE</td>
<td>XIII</td>
</tr>
<tr>
<td>PROGRAM FUNDS</td>
<td>XIV</td>
</tr>
<tr>
<td>PROJECT BUDGET</td>
<td>XV</td>
</tr>
</tbody>
</table>
III. SIGNATURE SHEET

1. Educational Specifications contained in this document have been developed in accordance with the statutory requirements of the State University System of Florida as outlined in FIU Standard Operating Procedure #FIU-15-001:

   ROBERT W. GRIFFITH, R.A., A.U.A., DIRECTOR OF PLANNING FACILITIES MANAGEMENT

   Date: 7/16/2018

2. This document is recommended by the appointed University Building Program Committee:

   PEDRO BOTTA, COMMITTEE CHAIRPERSON

   Date: 7/17/2018

3. Information Technology and Communications Resource Specifications contained in this document have been developed in conformance with the requirements of Chapter 282, Florida Statues, and University standard practices:

   ROBERT GRILLO, VICE PRESIDENT & CIO INFORMATION RESOURCE MANAGEMENT

   Date: 7/18/2018

4. This document is recommended for approval:

   JOHN CAI, ASSOCIATE VICE PRESIDENT, FACILITIES MANAGEMENT

   Date: 7/16/18

5. This document is recommended for approval:

   KENNETH JESSELL, CFO & SENIOR VICE PRESIDENT, FINANCE & ADMINISTRATION

   Date: 7-18-2018

6. This document is recommended for approval:

   KENNETH FURTON, PROVOST & EXECUTIVE VICE PRESIDENT

   Date: 7-18-2018

7. This document is hereby approved:

   MARK B. ROSENBERG, PRESIDENT, FLORIDA INTERNATIONAL UNIVERSITY

   Date: 7-24-18
FACILITY PROGRAM COMMITTEE

This building program represents the University’s requirements for the development of the Project in as specific
and complete a form as is presently available. It is a comprehensive effort of the members of the Building Program
Committee who have each contributed, by drawing from their expertise and respective responsibilities, the essential
information required by the architects and engineers to conceptualize and develop the project. This committee will
monitor the development of the design and assist the design Architects/Engineers by refining details and clarifying
any ambiguities herein in a manner consistent with this program. Coordination of the program requirements
(compatibility, standards, finishes, utility connections, equipment, etc.) and scheduling throughout the duration of
the project will be maintained by the University’s office of Facilities Management, Planning, and Construction
sections.

The members of the Program Committee are:

Chairperson: Pedro Botta, Sr. Director Administrative Services, SIPA

Members:

Jeffery Gonzalez, Administration, SIPA
Kimberly Green, President, Green Family Foundation
Okezi Otovo, Assoc. Professor, History
Frank Mora, Director Latin America and Caribbean Center
Andrea Fanta, Asst. Professor, Modern Languages
Mohamed Ghumrawi, Academic Advisor, SIPA
Tom Breslin, Professor, Politics and International Relations
Gloria Jacomino, Director of Academic Space Management

Ex-Officio:

Associate Vice President, Planning & Institutional Effectiveness
Associate Vice President, Facilities Management
Associate Director, Facilities Management/Operations
Associate Vice President, Information Technology
Associate Vice President, Environmental Health & Safety
Chairperson, Faculty Senate
Chairperson, Ad Hoc Building and Environment Committee
Associate Director, Facilities Management/Utilities
Director, Auxiliary Services
Director, Purchasing
Director, Academic Space Management
Director, Facilities Management/Minor Projects & Construction
Director, Facilities Management/Planning
Senior Project Manager/Facilities Management
IV. INTRODUCTION

Project Summary:

The Steven J. Green School of International Public Affairs Phase II (SIPA-2) project proposes a new multi-story building adjoining the existing 5-story SIPA building. The preferred location is the area west of the original SIPA building with a clearance of at least 60-feet from the Labor Center (Building 13). This site will require partial or complete filling of the existing detention pond. The project is expected to include an overall gross floor area of approximately 84,800 square feet and a net assignable area of 53,000 square feet. It will include classrooms, conference and event facilities, seminar rooms, and professional case rooms, as well as administrative and faculty offices. Covered walkways and/or bridges connecting the new and existing buildings at one or more levels are desired.

Project Background and Rationale:

The proposed SIPA-II building has been part of FIU planning for since the original SIPA building was designed in 2008. At the time, conceptual design drawings showed a “twin” building located on the site now proposed, but budgetary constraints did not allow for all of the desired space to be built in 2008. This second phase has been listed as “Future Project” on FIU Facilities Planning’s “Construction Projects Master List” since August 2011, soon after Phase I was occupied, and it was clear that additional space was needed to house the School of International and Public Affairs.

In 2015, esteemed business leader, diplomat and philanthropist Ambassador Steven J. Green and his family recognized the potential of the School of International and Public Affairs to become an institution of higher learning with significant national and international impact. Together with his wife Dorothea Green and daughter Kimberly Green, Ambassador Green, through the Green Family Foundation, bequeathed an extraordinary philanthropic gift of $20 million to name the Steven J. Green School of International and Public Affairs. Of this transformative gift, $15 million has been earmarked for the construction of SIPA-II.

During the summer of 2017, the legislature of the State of Florida approved a $12.7 million allocation for SIPA-II. The state allocation, combined with the Green Family gift, represents a significant milestone for the Green School, allowing FIU to move forward with the planning, design and construction of SIPA-II.

One of the largest schools of its kind in the United States, if not the world, the Steven J. Green School of International and Public Affairs has an enrollment of 7,000 students and 200 full-time faculty. It offers 38 degree programs and 35 certificate programs at both the undergraduate and graduate levels.

Together, SIPA-I and SIPA-II will allow the Green School to unify the majority of its departments, centers, institutes and programs, making it easier for students and faculty to engage, connect and collaborate. This will not only advance the school’s interdisciplinary approach to the study of international and public affairs, but will facilitate the school’s goal of becoming a World’s Ahead solutions center that addresses the most pressing issues confronting human societies across the globe.

Moreover, SIPA-II will act as a catalyst that will help the Green School achieve full membership in the prestigious Association of Professional Schools of International Affairs (APSIA). The association represents the top 35 schools of international and public affairs in the world. SIPA-II will allow for the physical space necessary for the Green School to centralize its operations, creating fertile ground for the kind of interdisciplinary teaching, research and outreach that makes the Green School stand out among other programs of its kind across the world. This emphasis on interdisciplinarity makes the Green School particularly attractive to APSIA, advancing the school’s likelihood of achieving full accession to the prestigious association. And as a full APSIA member, the Green School will attract top students and scholars from across the U.S. and the world.
FIU Online is also seeking space in the proposed SIPA-II building to help expand their team and provide additional services needed to support growing online enrollment and prepare for the growth required to meet the Provost 2020 strategic plan and the BOG 2025 Online Innovation Strategic Plan. FIU Online does not see expansion of their existing facilities within the Management and New Growth Opportunities (MANGO) building completed in 2015 as being practical given the growing needs of other MANGO building occupants. SIPA-II’s proposed site near MANGO makes an FIU Online expansion into the new building a good option. FIU Online hopes to move their Contact Center, their Success Coaches and Technology Services which includes Student Support Services, the Learning Management System team, Systems Support and Development and the Information Technology team into SIPA-II.

**Project Goals and Benefits:**

- Build a community of students and scholars dedicated to addressing some of the most pressing global and social issues of our times
- Bring together the majority of the Green School’s academic departments, centers, institutes and programs
- Facilitate interaction between faculty and students
- Facilitate interdisciplinary collaboration among faculty, visiting scholars and practitioners
- Expand opportunities for curricular and instructional innovation
- Increase spaces critical to experiential and problem-based learning
- Bolster a dynamic interdisciplinary research culture
- Provide adequate administrative space for one of the largest schools of its kind in the U.S., if not the world
- Provide adequate facilities for the rapidly growing professional Master of Arts in Global Affairs degree program and other professional and executive education programs
- Attract top students to FIU by projecting a culture of excellence that emphasizes student success
- Increase FIU’s retention and graduation rates by effectively delivering the services known to aid in these goals
- Cultivate student relationships that will lead to increased alumni affiliation and philanthropy
- Foster global consciousness, cultural awareness and appreciation of diversity through creative programming and outreach
- Create a hub for critical community conversations about salient global and social issues

**Project Delivery:**

The project is proposed to be delivered using the Construction Management - At Risk Method. Refer to Florida Board of Governors Regulation 14.0055 (2) (a) and (e) below for project delivery justification:

(a) Whether the size of the project is sufficiently large and/or complex to require major emphasis on the qualification of the contractor to have specific expertise in performing highly specialized cost estimating, value engineering, and scheduling during the design process with continuity of construction management through both the design and construction phases;
(b) Whether the initial construction funding is appropriated and construction is begun with the expectation of substantial appropriations in subsequent years, thereby making it advantageous to retain a single contractor for the duration of the project;
(c) Whether the project is an alteration of an occupied facility which requires working around or relocating occupants while keeping the facility fully operational; or,
(d) Whether the project is a repair or renovation where the conditions requiring correction cannot be
determined and specified without extensive contractor involvement in the removal and examination process during the design phase.

(c) Whether the timely completion of the project is critical to the university’s ability to repay debt service or to meet grant obligations.

The design team selected for this commission will be responsible for the development of the design and development of contract documents, bidding and construction administration services.

**Sustainability:**

In recognition of the University's commitment to sustainability practices and the inherent complexity of this building type, this project will be designed and built with the goal of meeting the USGBC's LEED "Silver" certification rating level at a minimum. The Project shall comply with Florida Statutes 255.251 *Energy Conservation and Sustainable Buildings Act* including 255.252 (3) and (4). The Project shall comply with Florida Statute 255.2575 *Energy-efficient and sustainable buildings* requirements that all state university buildings be constructed to comply with a sustainable building rating system or a national model green building code.
V. ACADEMIC PLAN

The Steven J. Green School of International and Public Affairs at FIU educates the leaders and change-makers of tomorrow through innovative teaching and research that advances global understanding, contributes to policy solutions and promotes international dialogue. The Green School encompasses eight signature departments: Criminal Justice, Economics, Global and Sociocultural Studies, History, Modern Languages, Politics and International Relations, Public Administration and Religious Studies. Home to 17 international centers, institutes and programs, the Green School is an affiliate member of the Association of Professional Schools of International Affairs (APSIA.)

The Green School’s unique approach to the study of international and public affairs combines the social sciences and the humanities and emphasizes interdisciplinary learning, research and outreach. The school addresses the most pressing issues confronting human societies across the globe by advancing scholarship that seeks to understand the transcendence of the human experience, the connectedness of our shared histories, the challenges we face as one human family, and the opportunities afforded by dialogue and cooperation.

Interdisciplinarity distinguishes the Green School from most other schools of its kind in the United States and elsewhere. The school encourages its students and faculty to think about the world and human societies in unique ways, generating policy-relevant dialogue and research on critical issues. To this end the school has identified 8 strategic, cross-disciplinary themes that characterize its teaching, research and outreach agendas. These are: Migration, Diasporas & Transient Communities; Poverty & Global Inequalities; Economic Development, Sustainability & Environment; Religion, Society & Interfaith Engagement; Human Rights & Democratization; Security, Foreign Policy & Governance; Nationalism, Identity & Language; and Historical Inquiry, Memory & Reconciliation.

The Green School houses many of FIU’s most prominent international centers, institutes and programs. These units serve as key focal points of interdisciplinary programming, curricular development and research, engaging faculty from across the Green School’s departments as well as from other schools and colleges at the university. The centers, institutes and programs also generate robust outreach activities that engage the South Florida community in compelling conversations about local, national and international issues.

SIPA-II will enable the Green School to bring together the majority of its departments, centers, institutes and programs, facilitating innovative interdisciplinary collaboration. Together, SIPA-I and SIPA-II will create a mini-campus within FIU’s main campus, creating a community of students and scholars dedicated to addressing some of the most pressing global and social issues of our times, while advancing the school’s mission of delivering excellence in teaching, research and outreach.

Because of our innovative approach to addressing global and social issues through interdisciplinary education and scholarship, the Green School presents a very attractive portfolio to APSIA, the prestigious international association of schools of international and public affairs. By physically housing faculty, students, researchers and staff in one main location, SIPA-II will help interdisciplinary dialogue, collaboration and research flourish. This will bolster our ability to meet the need of students to develop as critical thinkers, future leaders and competitive job market candidates. In this way, SIPA-II will advance our goal of achieving full APSIA membership and recognition as one of the top schools of international and public affairs in the world.

SIPA-II will house the following Green School units:

Department of Politics and International Relations

The Department of Politics and International Relations (PIR) is a signature department in the Green School. It combines traditional disciplinary strengths in political science with a multi-disciplinary approach to the study of international relations. The department offers B.A., M.A. and Ph.D. degrees in Political Science; B.A. and Ph.D. degrees in International Relations; and an M.A. in International Studies. It is closely associated with one of FIU’s five preeminent programs, the Extreme Events Institute. Thirteen PIR faculty are affiliates of the university’s emerging preeminent program, the Kimberly Green Latin American and Caribbean Center. And one of PIR’s faculty members directs the university’s large Pre-Law certificate program that provides cross disciplinary training for students interested in law school. Our faculty also play a major role in the delivery of the Green
School’s prestigious professional Master of Arts in Global Affairs.

Department of Modern Languages

The Department of Modern Languages (MOL) offers multiple opportunities for interdisciplinary studies in languages, literatures and cultures at the undergraduate and graduate levels, preparing students for numerous educational and career options. With its variety of programs, the department is a stimulating place to grow intellectually and thrive in diverse linguistic and cultural contexts. It offers bachelor’s degrees in French and Francophone Studies, Portuguese and Spanish, as well as minors and certificates in areas ranging from Italian Language and Culture to Japanese Language Culture and Translation Studies. The department offers various graduate degrees in Spanish. MOL encourages student participation in study abroad programs as part of a holistic, global education. It also participates in the Haitian Summer Institute, an intensive six-week program designed for students interested in acquiring basic fluency in Haitian Creole, as well as language training at the intermediate and advanced levels.

Department of History

The Department of History offers programs that foster a love for historical inquiry and lay a foundation for successful careers in history, law, journalism, government service, librarianship, and other professions. Its scope covers the ancient past to present days, while cultural and spatial interests involve the peoples of Africa, Europe, Asia and the Americas. The department offers bachelor’s and master’s degrees in history, a doctor of philosophy in Atlantic History and a combined Bachelor of Arts in History with Master of Arts in History. The department’s faculty members are at the cusp of research and scholarship, publishing numerous books on diverse topics each year. Recently, faculty have published on topics ranging from veteran health care policy during the World War I era to a sourcebook on modern Spain and spousal murder in the late Colonial Spanish Atlantic.

Model United Nations Program

FIU’s Model United Nations (UN) Program is home to an award-winning team of student delegates – some of the best delegates in the country to compete on the Model UN circuit. In 2017, FIU’s team claimed the #4 spot on the college Model UN rankings for the third year in a row, which made them the highest ranked team in Florida and the highest ranked from any public university. The FIU Model United Nations Program is an international relations course offered during both the fall and spring semesters. The course provides an interactive environment, engrossing students in different aspects of political and international affairs. The program builds students’ public speaking, writing, negotiations, critical analysis and research skills. Students gain valuable experience that can make them more competitive in the job market and better prepared for the workplace.

Kimberly Green Latin American and Caribbean Center

The Kimberly Green Latin American and Caribbean Center (LACC), founded in 1979, is designated by the U.S. Department of Education as a National Resource Center on Latin America, recognizing it as one of the top centers of its kind in the country. The interdisciplinary nature of LACC programs encourages students to think critically and creatively about major issues facing the hemisphere. LACC draws on the expertise of over 200 affiliated faculty and researchers. LACC is leading the way for research and outreach in various key areas. In 2018, it will host its 21st annual Haitian Summer Institute – a hallmark program that gives students the opportunity to immerse themselves in the study of Haitian language, history, politics and culture. The center has also sponsored major events such as the 2017 Hemispheric Security Conference, featuring scholars and security professionals to discuss the current and emerging security threats in the Western Hemisphere. LACC has been named one of only a handful of emerging preeminent programs at FIU.

Cuban Research Institute

The Cuban Research Institute (CRI) is dedicated to creating and disseminating knowledge about Cuba and its diaspora. The institute is the nation's premier center for academic research and public programs on Cuban and
Cuban-American issues. No other US university surpasses FIU in the number of professors and students of Cuban origin. Since its foundation in 1991, the institute has generated an exceptional level of scholarship, teaching and outreach. CRI has organized hundreds of academic and cultural events, covering Cuban and Cuban-American history, politics, society and the arts. It engages FIU students, faculty and members of the greater South Florida community through a stimulating series of events such as conferences, panel discussions, book presentations and film screenings while encouraging original research and interdisciplinary teaching.

Mohsin & Fauzia Jaffer Center for Muslim World Studies

The Mohsin & Fauzia Jaffer Center for Muslim World Studies explores the rich history and contributions of Islam and Muslims around the world. The Jaffer Center is committed to deepening the understanding of modern-day Islam and dismantling stereotypes and misconceptions surrounding Muslims and Muslim societies. Dedicated to the study of the global Muslim experience, the center fosters interdisciplinary programming on the global Muslim diaspora, interfaith dialogue, sectarianism, security and identity. Also within the center is the Western Indian Ocean Studies Initiative, which explores Muslim migrations from the Indian subcontinent to the Arabian Peninsula and East Africa, and the impact of these migrations on Muslim religious and social identities. The Middle East Studies Program, also housed within the Jaffer Center, is dedicated to furthering research and dissemination of knowledge on various aspects of the region, exploring the intersections of culture, geography, religion, history and geopolitics.

European and Eurasian Studies Program

The European and Eurasian Studies Program enables students to obtain an interdisciplinary concentration in various aspects of European and Eurasian studies and enhance their understanding of European politics, society and culture. It offers undergraduate and graduate certificates in European and Eurasian Studies, and a semester study abroad program in Cyprus and Brussels and another in Italy. The Miami-Florida Jean Monnet Center of Excellence is housed within this program. In 2015, in a global competition, this center was one of only seven at U.S. universities to gain the prestigious designation of “Jean Monnet Center of Excellence” by the European Commission. It promotes teaching, research and outreach activities relating to the EU. The European and Eurasian program, in collaboration with the Miami-Florida Jean Monnet Center of Excellence also hosts the Blanka Rosenstiel Lecture Series on Poland.

Václav Havel Program for Human Rights and Diplomacy

The focus of this initiative is the study and exploration of human rights, the processes of democratization in societies that were once under autocratic governments and the experiences of societies currently in transition around the world. Its experiential basis and point of departure is Eastern and Central Europe and the transformation of Czechoslovakia after the fall of communism in the country. The initiative has hosted numerous events featuring international speakers, such as the two-part Memory, Conflict and Reconciliation seminar, which was created with Post Bellum - one of the leading European NGOs in the field of preserving the memory of nations confronted with totalitarianism. The initiative offers an undergraduate certificate in Human Rights and Political Transitions. David J. Kramer, former assistant secretary of state under President George W. Bush and an internationally-known expert on Russia, was named a Green School Senior Fellow with the Havel Initiative.

Green School Dean’s Office and Administrative Suite

The Green School Dean’s Office and Administrative Suite includes the leadership personnel of the school and the respective administrative teams that execute daily operations and advance strategic initiatives. The leadership team includes the Dean of the Green School, the Associate Dean for Undergraduate Studies and Operations, the Associate Dean for Graduate Studies and Innovation, the Senior Director for Strategic Initiatives, the Executive Director for Advancement, and the Dean’s Executive Assistant. The Associate Dean for Undergraduate Studies and Operations oversees Enrollment Services, Academic Advising, Faculty Affairs, and Finance & Human Resources. The Associate Dean for Graduate Studies and Innovation oversees Graduate Studies, Professional & Executive Education, Professional MA Program, and Career Development. The Senior Director of Strategic Initiatives oversees Communications & Marketing, Special Events & Protocol, Endowed Lecture Series,
International Agreements, and assists the Dean with the management of the Green School’s Centers, Institutes & Strategic Programs. The Executive Director for Advancement oversees all of the school’s fundraising activities, including prospect cultivation, donor stewardship, gift proposals and agreements, management of the school’s advisory board, and foundation and corporate relations.

**Professional Master of Arts in Global Governance**

The Professional Master of Art in Global Governance (MAGA) is the flagship professional graduate program of the Steven J. Green School of International and Public Affairs. Unlike traditional professional graduate programs in international affairs, the MAGA program offers pragmatic skills combined with theoretical rigor to tackle the world’s most critical issues. The program currently features two tracks (Globalization & Security; Corporate Citizenship) with two additional tracks set to begin in Fall 2018 (International Crime & Justice) and Fall 2019 (International Development) respectively. The program is cohort-based and is designed to be completed in two years. Cohorts typically range from 30 to 35 students; however, the enrollment target per cohort is 55 students.

**Office of Professional & Executive Education**

The Office of Professional & Executive Education delivers non-credit professional development training programs to diverse audiences. Currently, the principal program in operation is the Strategic Language Institute (SLI). The institute offers non-credit, intensive language training in U.S. Department of State-designated strategic languages, including Arabic, Chinese (Mandarin), Persian, Portuguese and Russian. The institute also offers training in key hemispheric languages, Spanish, French and Kreyol. The training is geared toward business/professional language skills acquisition. The Green School is currently working with its units to design and roll out other professional programs meeting global business and government needs.

**Event Venue**

As one of the largest schools of international and public affairs in the world, it is critical that the Green School lead the way in hosting conversations that allow our students and the community to engage with thought leaders on the most compelling global issues of the day. This is a vital role for the Green School to further solidify Miami's place as a global city that fosters intellectual discourse and thoughtful analysis of the challenges we face as one human family. The Green School hosts 250 to 400 events annually. These include lectures, conferences, symposia, book presentations, film screenings, and art and music events. This type of outreach and engagement is critical to the mission of the Green School to foster dialogue on salient public and global issues.

**General Purpose Classrooms**

As the university continues to expand enrollment, classroom space is at a premium. The number of orphan classes increases every academic year. These all-purpose classrooms will become part of the university’s general classroom inventory for face-to-face courses. These classrooms will provide increased opportunities for FIU to offer more courses at more locations and with more time options. Ultimately, increasing the number of course offerings available to students will advance the university’s ability to graduate students on a timely basis, effectively advancing the institution’s 4-year graduation rate metric.

**Seminar/Conference Rooms**

These rooms will provide the necessary space for Green School faculty, staff, administrators and students to engage in a variety of academic and administrative activities. The rooms will provide optimal gathering spaces for Green School faculty and staff to meet with colleagues and for graduate students to host seminars and defend dissertations. The conference rooms will have a maximum occupancy of 25 people each and will allow relatively small groups to have an inviting and conducive space where they can work together on a variety of projects.
Adjunct Faculty Flexible “Hotel” Space

The Green School has 200 adjunct faculty members at any given time. Because of the sheer number of faculty members at the Green School and the available office space, many adjunct faculty do not have an office space on campus. With this “hotel” space we seek to provide our adjunct faculty members with a physical place where they can spend time after class and host office hours, grade papers and meet with colleagues. Office hours are of critical importance to our students. Students seek out professors during their office hours to ask them questions about class material or to simply discuss a topic of interest. This academic exchange is key to the learning experience of our students. Part of what strengthens their academic performance is having access to their instructors. Facilitating a student’s ability interact in meaningful ways with an instructor contributes to academic performance and advances the university’s retention and graduate rates.

Graduate Student Collaborative Space

Graduate students need a space to meet and discuss their ideas. Whether they are working on research projects or group assignments, this space will provide our graduate students with state-of-the-art facilities that are conducive to productivity, creativity and collaboration. We envision a communal space that features computers students can use, comfortable furniture and cushioned seats, movable chairs and dry-erase boards. This space will also feature various collaborative rooms that students can reserve for periods of time. The collaborative rooms will have tables, comfortable furniture, outlets that can hook up to lap tops and other devices as well as display screens or monitors that students can connect to their lap tops. Providing students with these resource-rich environments they can access outside of class seamlessly aligns with the active learning principles and high-quality teaching standards that lead to maximum learning outcomes for our students.

SIPA-II will house the following FIU Online units:

Contact Center

The Recruitment team is the first point of contact with prospective students. The contact center consists of the Enrollment Coaches and the Enrollment & Recruitment Coordinators. This department provides first-class customer services throughout the entire enrollment lifecycle, with a specific interest in assisting students in finding the degrees that best aligns with their interest and increasing enrollment.

Prospective students who have questions about FIU Online admissions can speak to a member of the team. The Recruitment team provides personalized help to prospective students and applicants, every step along the way of joining an FIU Online Program. The majority of student contact is virtual (internet), but the department does receive a small volume of walk-ins and schedules appointments with prospective students who want to learn more about FIU’s online programs and/or need assistance with the application process.

With the consistent growth of FIU Online degree programs and planned growth going forward, space for FIU Online will need to be large enough to accommodate a growing staff needed to effectively assist students.

Success Coaches

FIU Online’s success coaches assist students in balancing life and school, organizational skills, communication support and coaching through course related challenges. They create strategies to keep students on track to graduate, connect to appropriate resources for program specific support and develop plans that align with their career goals. The focus is to help students identify and achieve their educational, professional, and personal goals within the context of their college experience.

Technology Services

The Technology Services area includes space to house Student Support Services, the Learning Management System (LMS) team, Systems Support and Development (SSD) team and the Information Technology team. The LMS and SSD team is responsible for the management, development and support of FIU Online’s technology infrastructure.
FIU Online Student Support Services (SS) is the gateway that connects students to the online learning world. The SS team provides FIU students and faculty with technical assistance for online, hybrid, or web-assisted courses.

The Information Technology Team (IT) is the technical support team that provides training and end-user support for laptops and desktops of FIU Online employees.

**Student Computer Lab / Cyber-Space / eSports Gaming Facility**

FIU Online seeks to develop a cyber-space to be used as a technology accelerator for a multitude of projects and activities related to technology and electronic sports (eSports). A cyber-space provides an opportunity for student, staff, and faculty collaboration with emerging technology as a core focus. The cyber-space would host powerful computer hardware to enable users to advance their skills in technology, collaborate in the development of educational software, and advance technological research.

eSports are a rapidly expanding frontier in college athletics and present an opportunity for scholarship, competition, education, and socialization. eSports are now sharing the same space with athletics and sports programs at universities and colleges across the U.S. (60+ involved in National Association of Collegiate eSports) and a dedicated space on-campus would enable and provide support to the development of cyber-athleticism at FIU.

Also, just like traditional sports, the eSports operation involves many individuals from a variety of disciplines to function (software development, sciences, analytics, public relations, business, etc.). With the development of an eSports setting at FIU, there is profound opportunity for the creation of new degree programs, internships, and fellowships which revolve around the emerging eSports market. As an example, the cyber-space can create a community where students, faculty, and staff collaborate to gain hands-on experience with multimedia broadcasting, through platforms such as Amazon’s Twitch.

As a community hub, the cyber-space facilitates, enables, and encourages active learning to give better insights into the growing field of technology. The cyber-space is a location for the convergence of a variety of disciplines including, but not limited to, eSports, virtual reality, artificial intelligence, education, research, business, and analytics. The development of a cyber-space as a technology accelerator and space for eSports can help position FIU as a leader in providing education on new technology and facilitating the emerging arena of cyber-athleticism through eSports.

The space should be designed to host various technology based initiatives such as competitive gaming, virtual reality, eSports tournaments, and educational game development. The space could have a large LED video wall, spectator seating, computer gaming stations and space to host virtual reality activities. It is envisioned as a space where student players can practice and mingle. In addition, faculty and departments can use the space to provide instruction and research on relevant topics in coordination with FIU Online.
## VI. SPACE NEEDS ASSESSMENT

### Green School of International Public Affairs - PHASE 2

<table>
<thead>
<tr>
<th>SPACE LIST</th>
<th># of Spaces</th>
<th># of Occupants</th>
<th>Sq. Ft. per Occupant</th>
<th>Room NASF</th>
<th>Total NASF</th>
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<tbody>
<tr>
<td><strong>FIU ONLINE</strong></td>
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<tr>
<td><strong>STUDENT SERVICES</strong></td>
<td></td>
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<td></td>
<td>### Contact Center Area</td>
</tr>
<tr>
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<tr>
<td>Informal Huddle Room (open plan)</td>
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<td><strong>Success Coach Area</strong></td>
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<td>### Technology Services Team Area</td>
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<tr>
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<td>### Student Support Room</td>
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# Green School of International Public Affairs - PHASE 2

## SPACE LIST

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<th># of Spaces</th>
<th># of Occupants</th>
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<tr>
<td>DEPARTMENT OF POLITICS AND INTERNATIONAL RELATIONS</td>
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<td>Reception</td>
<td>1</td>
<td>1</td>
<td>180</td>
<td>180</td>
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<tr>
<td>Faculty / Staff Lounge</td>
<td>1</td>
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<tr>
<td>Conference/Seminar Room</td>
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| DEPARTMENT OF MODERN LANGUAGES                        |             |                |                      |           |            |
| Faculty Office                                        | 33          | 1              | 105                  | 105       | 3,465      |
| Department Chairperson                                | 1           | 1              | 150                  | 150       | 150        |
| Advisor Office                                        | 1           | 1              | 115                  | 115       | 115        |
| Post-Doctoral Assoc. & Visiting Scholar Office        | 6           | 1              | 105                  | 105       | 630        |
| Office Manager                                        | 1           | 1              | 120                  | 120       | 120        |
| Support Staff                                         | 1           | 2              | 70                   | 140       | 140        |
| Reception                                             | 1           | 1              | 180                  | 180       | 180        |
| Faculty / Staff Lounge                                | 1           | 6              | 25                   | 150       | 150        |
| Conference/Seminar Room                               | 1           | 30             | 22                   | 660       | 660        |
| **Sub-Total**                                         |             |                |                      |           | **5,610**  |

| DEPARTMENT OF HISTORY                                  |             |                |                      |           |            |
| Faculty Office                                        | 25          | 1              | 105                  | 105       | 2,625      |
| Department Chairperson                                | 1           | 1              | 150                  | 150       | 150        |
| Post-Doctoral Assoc. & Visiting Scholar Office        | 2           | 1              | 105                  | 105       | 210        |
| Office Manager                                        | 1           | 1              | 120                  | 120       | 120        |
| Support Staff                                         | 1           | 2              | 70                   | 140       | 140        |
| Reception                                             | 1           | 1              | 180                  | 180       | 180        |
| Faculty / Staff Lounge                                | 1           | 6              | 25                   | 150       | 150        |
| Conference/Seminar Room*                              | 0.5         | 30             | 22                   | 660       | 330        |
| **Sub-Total**                                         |             |                |                      |           | **3,905**  |
# Green School of International Public Affairs - PHASE 2

## SPACE LIST

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<thead>
<tr>
<th>Building and Program</th>
<th>Director’s Office</th>
<th>Leadership Team Office</th>
<th>Affiliated Faculty Office</th>
<th>Post-Doctoral Assoc. &amp; Visiting Scholar Office</th>
<th>Research Associate Office</th>
<th>Executive Assistant</th>
<th>Office Manager</th>
<th>Support Staff</th>
<th>Cubicle Area for Research Assistants</th>
<th>Reception</th>
<th>Faculty/Staff Lounge*</th>
<th>Conference/Seminar Room*</th>
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<tr>
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<td>120</td>
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<td>150</td>
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* Room NASF: 4/4/2018
**Green School of International Public Affairs - PHASE 2**

### SPACE LIST

<table>
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<tr>
<th>GREEN SCHOOL ADMINISTRATIVE SUITE</th>
<th># of Spaces</th>
<th>Sq. Ft. per Occupant</th>
<th>Room NASF</th>
<th>Total NASF</th>
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<tbody>
<tr>
<td>Dean's Executive Office</td>
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<td>Reception</td>
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<td>180</td>
</tr>
<tr>
<td>Executive Conference Room</td>
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<td>660</td>
<td>660</td>
</tr>
<tr>
<td>Faculty /Staff Lounge</td>
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<th>Room NASF</th>
<th>Total NASF</th>
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<tbody>
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<td>Shelter Supply Storage</td>
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<table>
<thead>
<tr>
<th>PROFESSIONAL MA IN GLOBAL AFFAIRS (MAGA)/Professional &amp; Executive Education/Career Development</th>
<th># of Spaces</th>
<th>Sq. Ft. per Occupant</th>
<th>Room NASF</th>
<th>Total NASF</th>
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<tbody>
<tr>
<td>Administrative Leadership Office</td>
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<td>MAGA Case Rooms</td>
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<td>Professional Ed Classrooms</td>
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</table>

<table>
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<th>ADJUNCT FACULTY FLEXIBLE &quot;HOTEL&quot; SPACE</th>
<th># of Spaces</th>
<th>Sq. Ft. per Occupant</th>
<th>Room NASF</th>
<th>Total NASF</th>
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</thead>
<tbody>
<tr>
<td>Central Area For about 200 Adjuncts Can Be With Grad Student Collaborative</td>
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<td>15</td>
<td>30</td>
<td>1,800</td>
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<table>
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<th>GRADUATE STUDENT COLLABORATIVE SPACE SPACE</th>
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<th>Sq. Ft. per Occupant</th>
<th>Room NASF</th>
<th>Total NASF</th>
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<tbody>
<tr>
<td>Central Area. Currently about 900 Grad Students, 1100 expected by 2023. Can Be Combined With Adjuncts.</td>
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Total NASF: 53,036  \[4/4/2018\]  Total NASF: 84,858  \[GFS Factor = 1.6\]

* Fractional faculty/staff lounge or conference/seminar room shared with other users.
**Grossing Factor Includes Public Circulation, Public Restrooms, Mechanical, Electrical, Custodial, Stairs, Elevators, Column and Wall Thicknesses, Etc.
VII. ANALYSIS OF IMPACT ON MASTER PLAN

The University Master Plan includes the SIPA-2 project west of the existing SIPA building and is identified as building A13.
VIII. SITE ANALYSIS

The site selected for SIPA-II is intended to help define the southern edge of “Quad M3 Ryder Lawn” and the “Avenue of the Students” according to the Campus Master Plan. The buildings surrounding the quadrangle should create walls that make the area feel like a space rather than just an open area. The building should basically align with the existing SIPA – I at the north and south sides. The building should be located so as not to diminish service and emergency vehicle access for the surrounding buildings.

The existing walkway on the north side of Student Health is a major east-west pedestrian route and it shall be maintained during construction and restored and enhanced by the SIPA-II project. The plaza south of the Labor Center shall be similarly maintained and restored and enhanced.

The spacing between SIPA-II and the Labor Center and SIPA-I shall be such that Code-required fire separations are maintained and so that daylight and views are maintained for all buildings to the greatest extent possible. Separations of 50-feet or less between buildings may be required. Opportunities to create habitable outdoor spaces between SIPA-I and SIPA-II and between SIPA-II and the Labor Center and Student Health should be explored in the site design.
VIII. SITE ANALYSIS (continued)

The existing pond on the site is not considered an important feature other than for its function as a source for irrigation water and to detain stormwater. Based on analysis of aerial photographs it appears the pond was excavated between 1974 and 1977 probably to use as a source for road fill.

One or more covered or fully-enclosed connectors between the new and existing SIPA buildings should be a priority of the project.

Particular attention must be given to the layout of the building footprint to achieve the following:

- Develop a building plan that establishes a clear linkage with neighborhood facilities allowing for easy pedestrian access between buildings.
- Maintain vehicular access to existing buildings for drop-off, deliveries and unloading/loading trash removal service and emergency vehicles. Maintain access to existing building support facilities including trash rooms, electrical and mechanical rooms, etc.
- Maximize the space on the first floor and adjacent outside areas to provide seating and gathering areas.
- Any building additions or connectors should reflect the look and feel of the existing facility.
## IX. PROGRAM AREAS

### SPACE PLANNING
- For 70 Students, accessible from public circulation core.
- Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.
- Provisions must be made for recessed motorized projection screen(s) location to be determined at building design stage for best location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screens and video projectors, investigate use of LCD-LED flat screen monitors, 60" (or larger), computer compatible & wall mounted.
- Partition systems shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.
- Presentation podium will house controls for audiovisual equipment, computer, monitor, and all projection, lighting and sound systems.
- Design should achieve maximum flexibility of presentation area and control of equipment.
- Speakers for the sound system must be recessed in the ceiling. Number of speakers and best locations to be determined in design phase.
- Provision for electronic locking system that will properly secure content of room when not in use.
- Provide a service closet approximately 30 sq. ft. with locking full-size door.
- Carpeted floor.
- Self-Recording Course-Capturing cameras and microphones to allow recording and real-time transmission of sound and video of presenter and student questions.

### ENVIRONMENTAL SYSTEMS
- A/C with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.
- Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.
- Provide two 125V 20A duplex outlets on each wall for general power needs.
- Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium or control equipment cabinet.
- Wi-Fi
- Power/Voice/Data communications outlets in floor at Instructor Position.

### FURNITURE / EQUIPMENT
- Seating for students, properly spaced to accommodate testing and comfort, plus teaching table / workstation with ergonomic chair.
- 1 Computer with monitor and keyboard
- Recessed Projection screen(s), motorized
- 1 “opaque projector” camera unit for video projection of materials from stand at podium.
- Video projection unit(s), computer compatible, ceiling mounted with security ceiling mount
- 1 lockable Presentation podium with equipment controls built-in.
- 1 Sound system
- ALT. - Flat Screen Monitors, computer compatible & wall mounted.
- Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 20 feet.
- Smart board or similar technology to capture notes handwritten by instructor.
- Regular Phone and Emergency Phone
### SPACE PLANNING
- For 30 Students, accessible from public circulation core.
- Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.
- Provisions must be made for recessed motorized projection screen(s) location to be determined at building design stage for best location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screens and video projectors, investigate use of LCD-LCD flat screen monitors, 60" (or larger), computer compatible & wall mounted.
- Partition systems shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.
- Presentation podium will house controls for audiovisual equipment, computer, monitor, and all projection, lighting and sound systems.
- Design should achieve maximum flexibility of presentation area and control of equipment.
- Speakers for the sound system must be recessed in the ceiling. Number of speakers and best locations to be determined in design phase.
- Provision for electronic locking system that will properly secure content of room when not in use.
- Provide a service closet approximately 30 sq. ft. with locking full-size door.
- Carpeted floor.
- Self-Recording Course-Capturing cameras and microphones to allow recording and real-time transmission of sound and video of presenter and student questions.

### ENVIRONMENTAL SYSTEMS
- A/C with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.
- Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.
- Provide two 125V 20A duplex outlets on each wall for general power needs.
- Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium or control equipment cabinet.
- Wi-Fi
- Power/Voice/Data communications outlets in floor at Instructor Position.

### FURNITURE / EQUIPMENT
- Seating for students, properly spaced to accommodate testing and comfort, plus teaching table / workstation with ergonomic chair.
- 1 Computer with monitor and keyboard
- Recessed Projection screen(s), motorized
- 1 “opaque projector” camera unit for video projection of materials from stand at podium.
- Video projection unit(s), computer compatible, ceiling mounted with security ceiling mount
- 1 lockable Presentation podium with equipment controls built-in.
- 1 Sound system
- ALT. - Flat Screen Monitors, computer compatible & wall mounted.
- Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 20 feet.
- Smart board or similar technology to capture notes handwritten by instructor.
- Regular Phone and Emergency Phone
**SPACE PLANNING**
- U-shaped layout with fixed desks arranged so that participants can all see each other directly or by turning to the side.
- For 70 Students, accessible from public circulation core.
- Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.
- Provisions must be made for recessed motorized projection screen(s) location to be determined at building design stage for best location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screens and video projectors, investigate use of LCD-LED flat screen monitors, 60" (or larger), computer compatible & wall mounted.
- Partition systems shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.
- Presentation podium will house controls for audiovisual equipment, computer, monitor, and all projection, lighting and sound systems.
- Design should achieve maximum flexibility of presentation area and control of equipment.
- Speakers for the sound system must be recessed in the ceiling. Number of speakers and best locations to be determined in design phase.
- Provision for electronic locking system that will properly secure content of room when not in use.
- Provide a service closet approximately 30 sq. ft. with locking full-size door.
- Carpeted floor.
- Self-Recording Course-Capturing cameras and microphones to allow recording and real-time transmission of sound and video of presenter and student questions.

**ENVIRONMENTAL SYSTEMS**
- A/C with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.
- Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.
- Provide two 125V 20A duplex outlets on each wall for general power needs.
- Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium or control equipment cabinet.
- Wi-Fi
- Power/Voice/Data communications outlets in floor at Instructor Position.

**FURNITURE / EQUIPMENT**
- Seating for students, properly spaced to accommodate testing and comfort, plus teaching table / workstation with ergonomic chair.
- 1 Computer with monitor and keyboard
- Recessed Projection screen(s), motorized
- 1 “opaque projector” camera unit for video projection of materials from stand at podium.
- Video projection unit(s), computer compatible, ceiling mounted with security ceiling mount
- 1 lockable Presentation podium with equipment controls built-in.
- 1 Sound system
- ALT. - Flat Screen Monitors, computer compatible & wall mounted.
- Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 20 feet.
- Smart board or similar technology to capture notes handwritten by instructor.
- Regular Phone and Emergency Phone

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**INSTRUCTIONAL 1400 NASF**

**MAGA Case Rooms – Green School**

IX-3
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• For 30 Faculty/Staff/Students, accessible from public circulation core.</td>
<td>• A/C with adjustable thermostat.</td>
<td>• Seating for students, at collaborative tables, ergonomic chairs. Instructor desk and chair.</td>
</tr>
<tr>
<td>• Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.</td>
<td>• Provide sound baffles in duct work.</td>
<td>• 1 Computer with monitor and keyboard</td>
</tr>
<tr>
<td>• Recessed motorized projection screen in location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screen and video projector, LCD-LED flat screen monitors, 60” (or larger), computer compatible &amp; wall mounted</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 1 Recessed Projection screen, motorized</td>
</tr>
<tr>
<td>• Partitions shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.</td>
<td>• Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.</td>
<td>• 1 Video projection Unit, computer compatible, ceiling mounted with security ceiling mount</td>
</tr>
<tr>
<td>• Custom built wood presentation podium. This podium will house additional controls for audiovisual equipment, computer, monitor, and all projection, lighting and sound systems.</td>
<td>• Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.</td>
<td>• 1 lockable Presentation podium with equipment controls built-in.</td>
</tr>
<tr>
<td>• Speakers for the sound system recessed in the ceiling. Number of speakers and best locations to be determined in design phase.</td>
<td>• Provide two 125V 20A duplex outlet on each wall for general power needs. Also, provide floor electrical outlets for non-obtrusive connection of presentation equipment.</td>
<td>• ALT. - Flat Screen Monitors, computer compatible &amp; wall mounted</td>
</tr>
<tr>
<td>• Minimum 20 lineal feet of whiteboard on teaching area (front wall).</td>
<td>• Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium.</td>
<td>• Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 20 feet.</td>
</tr>
<tr>
<td>• Provision for electronic locking system that will properly secure content of room when not in use.</td>
<td>• Wi-Fi</td>
<td>• Regular Phone and Emergency Phone</td>
</tr>
<tr>
<td>• Carpeted floor.</td>
<td>• Voice/Data communications outlets at Instructor Position.</td>
<td></td>
</tr>
<tr>
<td>SPACE PLANNING</td>
<td>ENVIRONMENTAL SYSTEMS</td>
<td>FURNITURE / EQUIPMENT</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>• For 20 Faculty/Staff/Students, accessible from public circulation core.</td>
<td>• A/C with adjustable thermostat.</td>
<td>• Seating for students, at collaborative tables, ergonomic chairs. Instructor desk and chair.</td>
</tr>
<tr>
<td>• Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.</td>
<td>• Provide sound baffles in duct work.</td>
<td>• 1 Computer with monitor and keyboard</td>
</tr>
<tr>
<td>• Recessed motorized projection screen in location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screen and video projector, LCD-LED flat screen monitors, 60&quot; (or larger), computer compatible &amp; wall mounted</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 1 Recessed Projection screen, motorized</td>
</tr>
<tr>
<td>• Partitions shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.</td>
<td>• Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.</td>
<td>• 1 Video projection Unit, computer compatible, ceiling mounted with security ceiling mount</td>
</tr>
<tr>
<td>• Custom built wood presentation podium. This podium will house additional controls for audiovisual equipment, computer, monitor, and all projection, lighting and sound systems.</td>
<td>• Recessed lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.</td>
<td>• 1 lockable Presentation podium with equipment controls built-in.</td>
</tr>
<tr>
<td>• Speakers for the sound system recessed in the ceiling. Number of speakers and best locations to be determined in design phase.</td>
<td>• Provide two 125V 20A duplex outlet on each wall for general power needs. Also, provide floor electrical outlets for non-obtrusive connection of presentation equipment.</td>
<td>• ALT. - Flat Screen Monitors, computer compatible &amp; wall mounted</td>
</tr>
<tr>
<td>• Minimum 20 lineal feet of whiteboard on teaching area (front wall).</td>
<td>• Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium.</td>
<td>• Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 20 feet.</td>
</tr>
<tr>
<td>• Provision for electronic locking system that will properly secure content of room when not in use.</td>
<td>• Wi-Fi</td>
<td>• Regular Phone and Emergency Phone</td>
</tr>
<tr>
<td>• Carpeted floor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• To be used as Study Rooms when not being used for class.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INSTRUCTIONAL 660 NASF</td>
<td>Conference/Seminar/Study Room – Green School</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>SPACE PLANNING</td>
<td>ENVIRONMENTAL SYSTEMS</td>
<td></td>
</tr>
<tr>
<td>FURNITURE / EQUIPMENT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Voice/Data communications outlets at Instructor Position.
- For 30 Faculty/Staff, accessible from public circulation core.
- Higher grade finishes such as paneling, wainscoting, moldings, special ceiling treatment and lighting.
- Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.
- Recessed motorized projection screen in location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screen and video projector, LCD-LED flat screen monitors, 60" (or larger), computer compatible & wall mounted
- Partitions shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.
- Speakers for the sound system recessed in the ceiling. Number of speakers and best locations to be determined in design phase.
- Minimum 20 lineal feet of whiteboard on teaching area.
- Provision for electronic locking system that will properly secure content of room when not in use.
- Carpeted floor.

<table>
<thead>
<tr>
<th>INSTITUTIONAL SUPPORT</th>
<th>EXECUTIVE CONFERENCE ROOM – GREEN SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>660 NASF</td>
<td>1 Computer with monitor and keyboard</td>
</tr>
<tr>
<td></td>
<td>1 Recessed Projection screen, motorized</td>
</tr>
<tr>
<td></td>
<td>1 Video projection Unit, computer compatible, ceiling mounted with security ceiling mount</td>
</tr>
<tr>
<td></td>
<td>1 Lockable Presentation credenza with equipment remote controls and connections built-in to conference table.</td>
</tr>
<tr>
<td></td>
<td>ALT. - Flat Screen Monitors, computer compatible &amp; wall mounted</td>
</tr>
<tr>
<td></td>
<td>Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 20 feet.</td>
</tr>
<tr>
<td></td>
<td>Regular Phone and Emergency Phone</td>
</tr>
</tbody>
</table>

- A/C with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.
- Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.
- Provide two 125V 20A duplex outlet on each wall for general power needs. Also, provide floor electrical outlets for non-obtrusive connection of presentation equipment.
- Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium.
- Wi-Fi
- Voice/Data communications outlets at Instructor Position.
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Serves as office for the Dean</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 1 Executive Desk (30&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work.</td>
<td>• 1 Executive Chair</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 2 Guest Chairs</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to desk for calculator, etc.</td>
<td>• 1 Credenza (18&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• Voice/Data communications outlet near desk location (including direct line access to mainframe computer)</td>
<td>• 1 Computer Table (30&quot;x60&quot;)</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td>• 3 Bookcases (4 shelves)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 3-drawer File Cabinet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Window Blinds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Computer with 2 Monitors and Printer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Telephone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Small conference table with seating for 6 to 8 people.</td>
</tr>
</tbody>
</table>

INSTITUTIONAL SUPPORT
275 NASF  
Dean's Office – Green School
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Readily accessible to clerical areas and other staff offices.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 1 Desk (30&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work.</td>
<td>• 1 Credenza (18&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 1 Ergonomic Chair</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to desk for calculator, etc.</td>
<td>• 2 Guest Chairs</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• Voice/Data communications outlet near desk location.</td>
<td>• Bookshelf (4 shelves)</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td>• Window Blinds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Telephone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Desktop Computer</td>
</tr>
</tbody>
</table>

INSTITUTIONAL SUPPORT
120 NASF

Dean's Administrative Staff Offices – Green School
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Readily accessible to clerical areas and other staff offices.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 1 Desk (30&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work</td>
<td>• 1 Executive Chair</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 2 Guest Chairs</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two</td>
<td>• 1 Credenza (18&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>duplex outlets in close proximity to desk for calculator, etc.</td>
<td>• 1 Computer Table (30&quot;x60&quot;)</td>
</tr>
<tr>
<td></td>
<td>• Voice/Data communications outlet near desk location.</td>
<td>• Bookshelf (4 shelves)</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td>• 3-drawer File Cabinet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Window Blinds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Computer with 2 Monitors and Printer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Telephone</td>
</tr>
</tbody>
</table>

**INSTITUTIONAL SUPPORT**

**150 NASF**

**Director’s Office – Green School**
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Readily accessible to other faculty offices.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 1 Desk (30&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work</td>
<td>• 1 Ergonomic Chair</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 2-3 Guest Chairs</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to desk for calculator, etc.</td>
<td>• Bookshelf (4 shelves)</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• Voice/Data communications outlet near desk location.</td>
<td>• 3-drawer File Cabinet</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td>• Window Blinds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Telephone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Desktop Computer</td>
</tr>
</tbody>
</table>

ACADEMIC SUPPORT
110 NASF

Faculty Office – Green School
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Accessible to other offices.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 6 Cubicles.</td>
</tr>
<tr>
<td>• Space for 6 part-time research assistants.</td>
<td>• Provide sound baffles in duct work</td>
<td>• 6 Ergonomic Chairs</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• Bookshelf (4 shelves)</td>
</tr>
<tr>
<td>• Cubicle system for flexibility and efficient use of space</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to workstation.</td>
<td>• Window Blinds if windows.</td>
</tr>
<tr>
<td>• Cubicles to have sound-absorbing wall panels</td>
<td>• Voice/Data communications outlet near each workstation location</td>
<td>• Desktop Computer at each cubicle</td>
</tr>
<tr>
<td>• Cubicle/partition system may include wiring for work stations.</td>
<td>• Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INSTITUTIONAL SUPPORT
384 NASF

Research Assistant Work Area – Green School
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reception and Lobby Area near Elevator Lobby</td>
<td>Air conditioned.</td>
<td>Reception Desk</td>
</tr>
<tr>
<td>Adjacent to Clerical Office</td>
<td>Acoustical ceiling with flush lighting</td>
<td>Chairs / Sofa for visitors</td>
</tr>
<tr>
<td>Waiting for 2 to 3 visitors</td>
<td>Provide one 125V 20A duplex outlet on each wall for general power needs</td>
<td>Coffee Table</td>
</tr>
<tr>
<td>Partition systems shall be sound retardant above and below ceiling</td>
<td>Voice/Data communications outlets for reception desk.</td>
<td>Wall-mounted clock</td>
</tr>
<tr>
<td>Carpeted floor</td>
<td>LCD TV wall outlet</td>
<td>1 48”x72” wall-mounted tack board/bulletin board.</td>
</tr>
<tr>
<td>Lock on door</td>
<td>Wi-Fi</td>
<td>Telephone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Magazine rack</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INSTITUTIONAL SUPPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>180 NASF</td>
</tr>
</tbody>
</table>

**IX-13**
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Kitchenette/Lunch Room for Faculty and Staff</td>
<td>• Air conditioned with adjustable thermostat</td>
<td>• 3 to 4 30-inch square tables with seating for 6 to 8 people in total.</td>
</tr>
<tr>
<td>• Readily accessible to clerical areas and other staff offices</td>
<td>• Provide sound baffles in duct work</td>
<td>• 1 wall mounted telephone</td>
</tr>
<tr>
<td>• Partition systems shall be sound-retardant above and below ceiling</td>
<td>• Acoustical ceiling with flush lighting</td>
<td>• 18-19 Cu. Ft. Refrigerator no-frost top freezer and automatic ice maker. (NIC)</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and electrical outlets for microwave oven, toaster oven and refrigerator.</td>
<td>• 900 Watt Microwave Oven (NIC)</td>
</tr>
<tr>
<td>• Resilient Floor</td>
<td>• Provide hot and cold water and sewer connections for 2-compartment stainless steel kitchen sink</td>
<td>• Space for Coffee Maker and Toaster Oven (NIC).</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• Provide voice communication outlet near round table location</td>
<td>• 1 48&quot;x72&quot; wall-mounted whiteboard</td>
</tr>
<tr>
<td>• Lockable Cabinets</td>
<td>• Wi-Fi</td>
<td>• 1 48&quot;x72&quot; wall-mounted tack board/bulletin board.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Minimum 10 lineal feet kitchen counter with sink and base cabinets with drawers and upper cabinets. Cabinet doors to be lockable. Must be accessible.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 1 wall-mounted clock</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fire Extinguisher</td>
</tr>
</tbody>
</table>

INSTITUTIONAL SUPPORT
200 NASF

Medium Staff Lounge/Lunch Room – Green School
### SPACE PLANNING
- Kitchenette/Lunch Room for Faculty and Staff
- Readily accessible to clerical areas and other staff offices
- Partition systems shall be sound-retardant above and below ceiling
- Natural light / view to exterior desired
- Resilient Floor
- Lock on door
- Lockable Cabinets

### ENVIRONMENTAL SYSTEMS
- Air conditioned with adjustable thermostat
- Provide sound baffles in duct work
- Acoustical ceiling with flush lighting
- Provide one 125V 20A duplex outlet on each wall for general power needs and electrical outlets for microwave oven, toaster oven and refrigerator.
- Provide hot and cold water and sewer connections for 2-compartment stainless steel kitchen sink
- Provide voice communication outlet near round table location
- Wi-Fi

### FURNITURE / EQUIPMENT
- 2 to 3 30-inch square tables with seating for 4 to 6 people in total.
- 1 wall mounted telephone
- 18-19 Cu. Ft. Refrigerator no-frost top freezer and automatic ice maker. (NIC)
- 900 Watt Microwave Oven (NIC)
- Space for Coffee Maker and Toaster Oven (NIC).
- 1 48"x72" wall-mounted whiteboard
- 1 48"x72" wall-mounted tack board/bulletin board.
- Minimum 10 lineal feet kitchen counter with sink and base cabinets with drawers and upper cabinets. Cabinet doors to be lockable. Must be accessible.
- 1 wall-mounted clock
- Fire Extinguisher

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**INSTITUTIONAL SUPPORT**

150 NASF

Small Staff Lounge/Lunch Room – Green School
### SPACE PLANNING
- Adjacent to building entrance, Catering Prep and Storage Room for tables and chairs.
- High ceilings
- Carpeted flat floor
- High Quality Finishes and Decorative Elements
- Area for portable raised stage(s) with ramp.
- Usable for Banquet functions for 200-225 people served and movable chair seating for 250-325 people in a theater/auditorium configuration. Classroom-style seating for 190 when setup with 18-inch deep desks.
- Chair rails.
- Usable wall space for pin-up displays and art events.
- Readily accessible to restrooms.

### ENVIRONMENTAL SYSTEMS
- Air conditioned with sound baffles in duct work.
- Acoustical ceiling with flush lighting, decorative lighting and stage lighting.
- Provide one 125V 20A duplex outlet at 12-foot intervals on each wall for general power.
- Acoustical wall panels (absorbing and reflecting) to provide good acoustics for and sound control for various room uses.
- Accommodations for two computer compatible video projection units, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the stage and/or control equipment cabinet.
- Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.
- Ceiling-mounted speakers with multiple zones.
- Wi-Fi

### FURNITURE / EQUIPMENT
- 72-inch diameter round tables with folding legs.
- Stackable upholstered high back, armless banquet chairs.
- 36-inch by 72-inch rectangular tables with folding legs.
- 18-inch by 72-inch rectangular tables with folding legs.
- Portable stage riser platforms, steps and ramp sections sufficient to create a stage minimum 324 square feet in size.
- Two motorized ceiling-mounted projection screens each with approximately 12-foot high by 14-foot wide viewing area.
- Provisions for basic overhead stage lighting with remote control.
- Ceiling-mounted video projectors with multiple control/data options.
- 1 wall-mounted emergency phone.
- Provisions to live webcast and record events.

### INSTITUTIONAL SUPPORT
2750 NASF

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Event Venue / Multi-Purpose Room – Green School
### SPACE PLANNING
- Partition systems shall be sound retardant above and below ceiling.
- Space staging of catering rack carts with prepared food and room for serving staff to circulate.
- Non-slip seamless resinous flooring.
- Direct access to Multi-Purpose Room and to exterior building service area/loading/delivery entrance.
- Impervious/seamless wall protection up to 6-foot height, corner guards and door protection.
- Multiple entries (in-out) to Multi-Purpose Room.
- Consider needs for use as a “Shelter Kitchen.”

### ENVIRONMENTAL SYSTEMS
- Air conditioned.
- Washable acoustical ceiling with flush lighting.
- Provide one 125V 20A duplex outlet on each wall for general power every 12 feet on each wall and every 6 feet at counter GFCI as required.
- Power for 4-6 portable warming/holding ovens.
- Water heater capable of providing 50 gallons of 140 deg. F. water per hour.
- Below-sink grease trap.

### FURNITURE / EQUIPMENT
- Free-standing three-compartment commercial-type stainless-steel sink with grease separator.
- Minimum 20 lineal feet of counter top with base cabinet and counter-mounted 2-compartment stainless steel kitchen sink.
- 2 insulated portable electric warming/holding ovens.
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
</table>
| - Space for stackable upholstered chairs and folding round and rectangular tables on carts, portable stage risers, podiums, etc.  
- Sealed concrete.  
- Wall protection up to 6-foot height, corner guards and door protection.  
- Double door directly into Multi-Purpose Room.  
- Consider including space designated for Shelter supplies  
- Consider inclusion of AV equipment closet within. | - Air conditioned.  
- Lighting with occupancy sensor  
- Provide one 125V 20A duplex outlet on each wall including one adjacent to door below light switch. | - Evaluate need for shelving and/or cabinets. |

INSTITUTIONAL SUPPORT  
275 NASF  

Table and Chair Storage Room – Green School
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Total space for shared use by 200 part-time Adjunct Faculty. Can be a single large space or multiple smaller spaces.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• Cubicles.</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work</td>
<td>• Ergonomic Chairs</td>
</tr>
<tr>
<td>• Cubicle system for flexibility and efficient use of space</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• Window Blinds if windows.</td>
</tr>
<tr>
<td>• Cubicles to have sound-absorbing wall panels</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to workstation.</td>
<td>• Desktop Computer at each cubicle or plug-in space for laptop (TBD)</td>
</tr>
<tr>
<td>• Cubicle/partition system may include wiring for work stations.</td>
<td>• Voice/Data communications outlet near each workstation location</td>
<td></td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Consider space adjoining Graduate Student Collaborative / Study Space</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SPACE PLANNING
- Total space for shared part-time use by 900 to 1100 graduate students. Can be a single large space or multiple smaller spaces.
- Partition systems shall be sound retardant above and below ceiling
- Cubicle system for flexibility and efficient use of space
- Cubicles to have sound-absorbing wall panels
- Cubicle/partition system may include wiring for work stations.
- Natural light / view to exterior desired
- Carpeted floor

### ENVIRONMENTAL SYSTEMS
- Air conditioned with adjustable thermostat.
- Provide sound baffles in duct work
- Acoustical ceiling with flush lighting.
- Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to workstation.
- Voice/Data communications outlet near each workstation location
- Wi-Fi

### FURNITURE / EQUIPMENT
- Cubicles.
- Ergonomic Chairs
- Window Blinds if windows.
- Desktop Computer at each cubicle or plug-in space for laptop (TBD)
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Space for Hot and Cold Beverage Machines, Refrigerated and Non-Refrigerated Snack Machines, Ice Cream Machine.</td>
<td>• Air conditioned with return duct.</td>
<td>• Evaluate need for shelving and/or cabinets.</td>
</tr>
<tr>
<td>• Visible but screened to contain noise and heat.</td>
<td>• Provide power as required and data connections for credit card readers.</td>
<td></td>
</tr>
<tr>
<td>• Resilient flooring</td>
<td>• Potable water connection available for hot beverage machine.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td></td>
</tr>
</tbody>
</table>

**BUSINESS SERVICES**

120 NASF **(NOT INCLUDED)**

Vending Area – Green School
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
</table>
| • Readily accessible to other faculty offices.  
  • Partition systems shall be sound retardant above and below ceiling  
  • Natural light / view to exterior desired  
  • Carpeted floor  
  • Lock on door | • Air conditioned with return duct.  
  • Lighting | • Adjustable metal shelving. |

CAMPUS SUPPORT  
120 NASF (NOT INCLUDED)  
Maintenance Storage Room
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Adjacent to Contact Center open seating area.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 1 Desk (30”x60”)</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work</td>
<td>• 1 Ergonomic Chair</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 2-3 Guest Chairs</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs</td>
<td>• Bookshelf (4 shelves)</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• and two duplex outlets in close proximity to desk for calculator, etc.</td>
<td>• 3-drawer File Cabinet</td>
</tr>
<tr>
<td></td>
<td>• Voice/Data communications outlet near desk location.</td>
<td>• Window Blinds</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td>• Telephone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Desktop Computer</td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL MEDIA**

120 NASF  
Contact Center Private Office – FIU Online
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Total space for shared use by 35 staff members for telephone and online chat/text support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Perimeter Partition systems shall be sound retardant above and below ceiling</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• Medium Height Cubicles.</td>
</tr>
<tr>
<td>• Cubicle system for flexibility and efficient use of space</td>
<td>• Provide sound baffles in duct work</td>
<td>• Ergonomic Chairs</td>
</tr>
<tr>
<td>• Cubicles to have sound-absorbing wall panels</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• Window Blinds if windows.</td>
</tr>
<tr>
<td>• Cubicle/partition system to include wiring for work stations.</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to each workstation.</td>
<td>• Desktop Computer with Two Monitors at each cubicle.</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Voice/Data communications outlet near each workstation location</td>
<td>• Phone at each cubicle.</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Wi-Fi</td>
<td></td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL MEDIA**

1680 NASF

Contact Center Open Seating Area – FIU Online

IX-24
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
</table>
| • Adjacent to open seating areas for Contact Center, Success Coach, Technology Services Team and Lobby/Reception  
• Partition systems shall be sound retardant above and below ceiling  
• Natural light / view to exterior desired  
• Carpeted floor  
• Lock on door | • Air conditioned with adjustable thermostat.  
• Provide sound baffles in duct work  
• Acoustical ceiling with flush lighting.  
• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to desk for calculator, etc.  
• Voice/Data communications outlet near desk location. Wi-Fi | • Seating for four at table, with ergonomic chairs.  
• 1 Computer with monitor and keyboard  
• 1 Lockable Presentation podium with equipment controls built-in.  
• Minimum 55-inch Flat Screen Monitor, computer compatible. Wall mounted or on credenza, TBD.  
• Wall-mounted whiteboard totaling at least 12 feet.  
• Emergency Phone |

**INSTRUCTIONAL MEDIA**  
**120 NASF**  

**INSTRUCTIONAL MEDIA**  
**Formal Huddle Room – FIU Online**
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• For 8 People Adjacent to open seating areas for Contact Center and Technology Services Team.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• Comfortable soft/modular seating for eight.</td>
</tr>
<tr>
<td>• Open area with possible low dividing walls TBD.</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 3 to 4 movable writing desks for laptops.</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Provide two 125V 20A duplex outlets on each wall for general power needs.</td>
<td>• Wall-mounted whiteboard totaling at least 12 feet.</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• One Voice/Data communications outlet near desk location.</td>
<td>• Emergency Phone</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td></td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL MEDIA**

200 NASF  

Large Informal Huddle Room – FIU Online
### SPACE PLANNING
- Accommodate large collating printer/copier/scanner and several smaller printers, a fax machine and a large shredding machine.
- Provide lockable cabinet space for paper and supplies.
- Readily accessible to Contact Center seating area.
- Resilient Floor/Carpet Floor, TBD.
- Enclosed to contain fumes/heat and reduce transmission of noise.
- Lockable cabinets space for paper and supplies and counter/table space sufficient for assembly of printed materials, binding, stapling, hole punching, laminating.

### ENVIRONMENTAL SYSTEMS
- Air conditioned with return/exhaust
- Acoustical ceiling with flush lighting
- Provide one 125V 20A duplex outlet on each wall for general power needs and power for copier/printers and fax machines.
- Provide voice/data communication outlets to fax machine and copier/printers.
- Wi-Fi

### FURNITURE / EQUIPMENT
- 1 wall mounted telephone
- 1 48"x72" wall-mounted tack board/bulletin board.
- Minimum 14 lineal feet counter and base cabinets with drawers and upper cabinets. Cabinet doors to be lockable.

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<table>
<thead>
<tr>
<th>INSTRUCTIONAL MEDIA</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 NASF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fax/Copy/Printer/Mail Room – FIU Online
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Adjacent to Success Coaches open seating area.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• 1 Desk (30&quot;x60&quot;)</td>
</tr>
<tr>
<td>• Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work</td>
<td>• 1 Ergonomic Chair</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 2-3 Guest Chairs</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to desk for calculator, etc.</td>
<td></td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• Voice/Data communications outlet near desk location.</td>
<td>• Bookshelf (4 shelves)</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td>• 3-drawer File Cabinet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Window Blinds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Telephone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Desktop Computer</td>
</tr>
</tbody>
</table>

INSTRUCTIONAL MEDIA
120 NASF

Success Coaches Private Office – FIU Online
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• For 4 People Adjacent to open seating area for Success Coaches.</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• Comfortable soft/modular seating for four.</td>
</tr>
<tr>
<td>• Open area with possible low dividing walls TBD.</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 2 to 3 movable writing desks for laptops.</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Provide two 125V 20A duplex outlets on each wall for general power needs.</td>
<td>• Wall-mounted whiteboard totaling at least 12 feet.</td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td>• One Voice/Data communications outlet near desk location.</td>
<td>• Emergency Phone</td>
</tr>
<tr>
<td></td>
<td>• Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>SPACE PLANNING</td>
<td>ENVIRONMENTAL SYSTEMS</td>
<td>FURNITURE / EQUIPMENT</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>------------------------------------------------------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>• Total space for shared use by 8 staff members for telephone and online chat/text support</td>
<td>• Air conditioned with adjustable thermostat.</td>
<td>• Medium Height Cubicles.</td>
</tr>
<tr>
<td>• Perimeter Partition systems shall be sound retardant above and below ceiling</td>
<td>• Provide sound baffles in duct work</td>
<td>• Ergonomic Chairs</td>
</tr>
<tr>
<td>• Cubicle system for flexibility and efficient use of space</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• Window Blinds if windows.</td>
</tr>
<tr>
<td>• Cubicles to have sound-absorbing wall panels</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to each workstation.</td>
<td>• Desktop Computer with Two Monitors at each cubicle.</td>
</tr>
<tr>
<td>• Cubicle/partition system to include wiring for work stations.</td>
<td>• Voice/Data communications outlet near each workstation location</td>
<td>• Phone at each cubicle.</td>
</tr>
<tr>
<td>• Natural light / view to exterior desired</td>
<td>• Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>• Carpeted floor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL MEDIA**

384 NASF

**Success Coaches Open Seating Area – FIU Online**
### SPACE PLANNING
- Adjacent to SSD and LMS (Technology Team) open seating area.
- Partition systems shall be sound retardant above and below ceiling.
- Natural light / view to exterior desired.
- Carpeted floor.
- Lock on door.

### ENVIRONMENTAL SYSTEMS
- Air conditioned with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to desk for calculator, etc.
- Voice/Data communications outlet near desk location.
  Wi-Fi

### FURNITURE / EQUIPMENT
- 1 Desk (30"x60")
- 1 Ergonomic Chair
- 2-3 Guest Chairs
- Bookshelf (4 shelves)
- 3-drawer File Cabinet
- Window Blinds
- Telephone
- Desktop Computer with two Monitors

### INSTRUCTIONAL MEDIA
120 NASF

Technology Team Director Private Office – FIU Online
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
</table>
| • Total space for shared use by 16 staff members  
• Perimeter Partition systems shall be sound retardant above and below ceiling  
• Cubicle system for flexibility and efficient use of space  
• Cubicles to have sound-absorbing wall panels  
• Cubicle/partition system to include wiring for work stations.  
• Natural light / view to exterior desired  
• Carpeted floor | • Air conditioned with adjustable thermostat.  
• Provide sound baffles in duct work  
• Acoustical ceiling with flush lighting.  
• Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to each workstation.  
• Voice/Data communications outlet at each workstation location  
• Wi-Fi | • Low Height Cubicles.  
• Ergonomic Chairs  
• Window Blinds if windows.  
• Desktop Computer with Two Monitors at each cubicle.  
• Phone at each cubicle. |

INSTRUCTIONAL MEDIA  
768 NASF

Technology Team / SSD and LMS Open Seating Area – FIU Online
### SPACE PLANNING
- Total space for shared use by up to 3 staff members and 3 students to help students resolve technical issues.
- Perimeter Partition systems shall be sound retardant above and below ceiling.
- Carpeted floor.

### ENVIRONMENTAL SYSTEMS
- Air conditioned with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Provide one 125V 20A duplex outlet on each wall for general power needs and two duplex outlets in close proximity to each workstation.
- Voice/Data communications outlet near each workstation location.
- Wi-Fi.

### FURNITURE / EQUIPMENT
- 3 Desk 3 (30"x66")
- 6 Ergonomic Chairs
- Window Blinds if windows.
- Desktop Computer with Two Monitors at each desk.
- Phone at each desk.

---

**INSTRUCTIONAL MEDIA**

**288 NASF**

**Student Tech Support Room – FIU Online**
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
</table>
| • Reception and Lobby Area near Elevator Lobby  
  • Seating for two staff members.  
  • Centrally located to help control and direct access to other FIU Online areas  
  • Waiting for 6 to 8 visitors  
  • Perimeter Partition systems shall be sound retardant above and below ceiling  
  • Carpeted/Resilient Floor, TBD  
  • Lock on door TBD | • Air conditioned.  
  • Acoustical ceiling with flush lighting  
  • Provide one 125V 20A duplex outlet on each wall for general power needs and additional outlets at Reception Desk  
  • Voice/Data communications outlets for reception desk.  
  • LCD TV wall outlet  
  • Wi-Fi | • Reception Desk with two ergonomic chairs.  
  • Two Desktop Computers with Monitors  
  • Two Phones at Reception Desk  
  • Chairs / Sofa for visitors  
  • Coffee Table  
  • Wall-mounted clock  
  • 1 48"x72" wall-mounted tack board/bulletin board.  
  • Telephone  
  • Magazine rack |

**INSTRUCTIONAL MEDIA**  
400 NASF  

Lobby Reception – FIU Online
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Readily accessible to other areas.</td>
<td>• Air conditioned with return duct.</td>
<td>• Adjustable metal shelving</td>
</tr>
<tr>
<td>• Resilient flooring</td>
<td>• Lighting.</td>
<td>• Multiple 5-drawer Lateral File Cabinets</td>
</tr>
<tr>
<td>• Lock on door</td>
<td>• Provide one 125V 20A duplex outlet on each wall for general power needs.</td>
<td></td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL MEDIA**

**200 NASF**

**File/Storage Room – FIU Online**
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Kitchenette/Lunch Room for Faculty and Staff</td>
<td>- Air conditioned with adjustable thermostat</td>
<td>- 4 to 5 30-inch x 60-inch rectangular tables with seating for four and 3 to 4 bar-height tables for two each with possible seating for 24-28 people in total.</td>
</tr>
<tr>
<td>- Readily accessible to work areas</td>
<td>- Provide sound baffles in duct work</td>
<td>- 1 wall mounted telephone</td>
</tr>
<tr>
<td>- Partition systems shall be sound-retardant above and below ceiling</td>
<td>- Acoustical ceiling with flush lighting</td>
<td>- Two 18-19 Cu. Ft. Refrigerator no-frost top freezer and automatic ice maker. (NIC)</td>
</tr>
<tr>
<td>- Natural light / view to exterior desired</td>
<td>- Provide one 125V 20A duplex outlet on each wall for general power needs and electrical outlets for microwave oven, toaster oven and refrigerators.</td>
<td>- Two 900 Watt Microwave Oven (NIC)</td>
</tr>
<tr>
<td>- Resilient Floor</td>
<td>- Provide hot and cold water and sewer connections for 2-compartment stainless steel kitchen sink</td>
<td>- Space and power for 2-3 Coffee Makers and Toaster Oven (NIC).</td>
</tr>
<tr>
<td>- Lock on door</td>
<td>- Provide water connections for coffee makers and ice makers.</td>
<td>- 1 48&quot;x72&quot; wall-mounted whiteboard</td>
</tr>
<tr>
<td>- Lockable Cabinets</td>
<td>- Provide communication outlets near vending machines and some seating areas.</td>
<td>- 1 48&quot;x72&quot; wall-mounted tack board/bulletin board.</td>
</tr>
<tr>
<td></td>
<td>- Wi-Fi</td>
<td>- Minimum 16 lineal feet kitchen counter with sink and base cabinets with drawers and upper cabinets. Cabinet doors to be lockable. Must be accessible.</td>
</tr>
</tbody>
</table>

INSTRUCTIONAL MEDIA

672 NASF

Kitchen/Pantry/Vending/Staff Lounge – FIU Online
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>• For 24 Staff, accessible from public circulation core.</td>
<td>• A/C with adjustable thermostat.</td>
<td>• 1 Computer with monitor and keyboard</td>
</tr>
<tr>
<td>• Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones. Lighting for seating areas should be dimmable to facilitate note taking.</td>
<td>• Provide sound baffles in duct work.</td>
<td>• 1 Recessed Projection screen, motorized</td>
</tr>
<tr>
<td>• Recessed motorized projection screen in location that will not interfere with presentations, whiteboards and video conferencing or as an alternative to projection screen and video projector, LCD-LED flat screen monitors, 60&quot; (or larger), computer compatible &amp; wall mounted</td>
<td>• Acoustical ceiling with flush lighting.</td>
<td>• 1 Video projection Unit, computer compatible, ceiling mounted with security ceiling mount</td>
</tr>
<tr>
<td>• Partitions shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.</td>
<td>• Lighting levels should reflect studies conducted in recent years concerning conferencing and instructional areas requirements. In addition, it should support live video conferencing and projection usage.</td>
<td>• 1 Lockable Presentation credenza with equipment remote controls and connections built-in to conference table.</td>
</tr>
<tr>
<td>• Speakers for the sound system recessed in the ceiling. Number of speakers and best locations to be determined in design phase.</td>
<td>• Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.</td>
<td>• ALT. - Flat Screen Monitors, computer compatible &amp; wall mounted</td>
</tr>
<tr>
<td>• Minimum 16 lineal feet of whiteboard.</td>
<td>• Provide two 125V 20A duplex outlet on each wall for general power needs. Also, provide floor electrical outlets for non-obtrusive connection of presentation equipment.</td>
<td>• Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 16 feet.</td>
</tr>
<tr>
<td>• Provision for electronic locking system that will properly secure content of room when not in use.</td>
<td>• Accommodations should be made (electrical mount) for one computer compatible video projection unit, ceiling mounted at a distance of 1.5 times the screen width. The mount must be in line with the center of the screen. A conduit will be required to run the signal and control lines from the projector position to the presentation podium.</td>
<td>• Regular Phone and Emergency Phone</td>
</tr>
<tr>
<td>• Carpeted floor.</td>
<td>• Wi-Fi</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Voice/Data communications outlets</td>
<td></td>
</tr>
</tbody>
</table>
**SPACE PLANNING**

- For 6 Staff, accessible from public circulation core.
- Provisions must be made for complete room darkening and general illumination which controls the amount of light on the projection screen by the use of independently controlled lighting zones.
- LCD-LED flat screen monitors, 60" (or larger), computer compatible & wall mounted
- Partitions shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.
- Minimum 10 lineal feet of whiteboard.
- Provision for electronic locking system that will properly secure content of room when not in use.
- Carpeted floor.

**ENVIRONMENTAL SYSTEMS**

- A/C with adjustable thermostat.
- Provide sound baffles in duct work.
- Acoustical ceiling with flush lighting.
- Zoned lighting with independent dimmer switch controls for light on or near the screen and another for the rest of the room. Dimmers should be rated for the lowest possible radio frequency and electrical interference.
- Provide two 125V 20A duplex outlet on each wall for general power needs. Also, provide floor electrical outlets for non-obtrusive connection of presentation equipment.
- Wi-Fi
- Voice/Data communications outlets

**FURNITURE / EQUIPMENT**

- 1 Computer with wireless mouse and keyboard.
- 1 Lockable Presentation credenza with equipment remote controls and connections built-in to conference table.
- LCD-LED Monitors, computer compatible & wall mounted
- Wall-mounted display to include tack board plus classroom-sized whiteboards totaling at least 10 feet.
- Regular Phone

### INSTRUCTIONAL MEDIA

**150 NASF**

**Small Conference Room – FIU Online**
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
</table>
| - To allow staff commuting by bicycle or participating in athletic activities a place to shower and change clothes. Designed for single-person occupancy without toilet facilities.  
- Partitions shall be sound retardant above and below ceiling. Provisions must be made for acoustical privacy and isolation from noisy areas.  
- Multi-layer waterproofing at floor and walls to prevent leaks to lower floors or adjacent areas.  
- Ceramic Tile Walls.  
- Non-slip Ceramic Tile or Resinous Flooring (TBD). | - A/C with adjustable thermostat and full exhaust.  
- Provide sound baffles in duct work.  
- Moisture-resistant ceiling with sealed lighting.  
- Provide one 125V GFCI 20A duplex outlet for general power needs.  
- Floor drains as required. | - Moisture-resistant open wardrobe cabinet with hanging rod  
- Mirror and counter-top.  
- Moisture-resistant bench  
- Shower door or curtain as required. |

I INSTRUCTIONAL MEDIA  
80 NASF

Shower/Changing Room – FIU Online

IX-39
<table>
<thead>
<tr>
<th>SPACE PLANNING</th>
<th>ENVIRONMENTAL SYSTEMS</th>
<th>FURNITURE / EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Open space for shared use by 50+ Students</td>
<td>- Air conditioned with adjustable thermostat.</td>
<td>- Medium-Height Cubicles.</td>
</tr>
<tr>
<td>- Perimeter Partition systems shall be sound retardant above and below ceiling</td>
<td>- Provide sound baffles in duct work</td>
<td>- Ergonomic Hi-Back Chairs</td>
</tr>
<tr>
<td>- Cubicle system for flexibility and efficient use of space</td>
<td>- Acoustical ceiling with flush lighting.</td>
<td>- High-Performance Desktop Computers with a Large Monitor at each cubicle.</td>
</tr>
<tr>
<td>- Cubicles to have sound-absorbing wall panels</td>
<td>- Lighting controls for different areas/zones with dimming capability.</td>
<td>- Emergency Phone in Room.</td>
</tr>
<tr>
<td>- Cubicle/partition system to include wiring for work stations.</td>
<td>- Provide one 125V 20A duplex outlet on each 12 lineal feet of wall for general power needs and two duplex outlets in close proximity to each workstation.</td>
<td></td>
</tr>
<tr>
<td>- Carpeted floor</td>
<td>- Voice/Data communications outlet at each workstation location</td>
<td></td>
</tr>
<tr>
<td>- Consider configuration that allows seating for spectators with focus on large 16-ft x 9-foot video wall.</td>
<td>- Wi-Fi</td>
<td></td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL MEDIA**  
2000 NASF  

Student Computer Lab and E-Sports Gaming Facility – FIU Online
The Project Budget includes all site development associated with required utility extensions and hookups, walkways, landscape irrigation, drainage systems, plant materials, lighting, and landscape furnishings (benches, trash containers, etc.). The consulting design team shall thoroughly review FIU utility atlases and coordinate underground utility location services that may be required.
In addition, this project budget includes campus infrastructure as follows: TBD – To be determined.

Water. Fire and domestic water are required at this building. Amount – TBD. The projected consumption is to be determined.

Sanitary Sewer System. Connection to Sanitary Sewer System required. A lift station may be required to connect as gravity sewer lines are not in the immediate vicinity of the site.

Storm Water System: Catch basins with ex-filtration trenches may be required based on storm drainage engineering analysis. The effect that reduction in the size or elimination of the existing detention pond will have on stormwater management must be analyzed.

Electrical. Service is TBD (Volts). Verify transformer requirements with Facilities Management. The projected electrical capacity is to be determined (KVA).

Chilled Water System: Service will be available from the existing chiller lines in the vicinity of the proposed building area.

Communications. Service connection available at nearby vault. Coordination with Facilities Management and Telecommunications Department for specific telephone and data requirements is required.

Road Work. Not anticipated except service drives.

Projected Demand:

Power = TBD - KVA

Water = TBD - GPM

Projected Consumption / Year:

Power = TBD - KWH

Water = TBD – Gallons

Utility Metering: Meters or sub-meters must be installed as part of the project to accurately determine utility usage attributable to this project.

Total estimated infrastructure construction costs associated with this building project including normal building service connection to the existing networks is itemized in section XV.
XI. INFORMATION/COMMUNICATION RESOURCE REQUIREMENTS

Refer to Telecommunications Wiring Standards appendix “C”. General equipment/furniture requirements are noted in section IX - Program Area Summary, Functional Description of space Details. Detailed computer hardwire requirements and network linkage relationships will be established in the Furniture/Equipment expenditure plan which should be developed following completion of design development. The FIU Telecommunications wiring standards are designed to accommodate a maximum degree of flexibility in the arrangement of data and voice communications systems. Wiring and cabling as well as data / voice outlets are specified by space type and should accommodate all normal operations as identified in this program.
APPENDIX "C"  STANDARDS FOR TELECOMMUNICATIONS FACILITIES FOR NONRESIDENTIAL & RESIDENTIAL LIFE BUILDINGS (REVISED AS OF FEBRUARY 2018)

The purpose of this standard is to provide for the planning and installation of telecommunications facilities in new buildings and major renovations. This standard has been developed with little knowledge of the telecommunications equipment that subsequently will be installed. Therefore, the definitions included herewith are for generic telecommunications facilities that will support a multitude of rapidly changing telecommunications technologies in a multivendor and variable end user environment.

This standard recognizes three fundamental concepts related to telecommunications and buildings:

   (1) Buildings are dynamic. Renovation, remodeling and upgrading are more the rule than exception. This standard takes into account that change will occur.

   (2) Building telecommunications systems and media are dynamic. As time passes both telecommunications equipment and media change considerably. This standard recognizes this fact and the facilities prescribed herein are capable of supporting a vast array of telecommunications systems and media.

   (3) Telecommunications is more than telephones. Telecommunications is inclusive of a variety of building systems including data systems, environmental control, security, audio, television, sensing, alarms, emergency communications and much more.

Above all, this standard recognizes a fact of fundamental importance: if a building is to be properly designed, built and provisioned for telecommunications systems, it is imperative that the telecommunications design be incorporated during the architectural design phase.

The FIU/DoIT Infrastructure Department developed this document in accordance with industry specifications. It is the standard by which the University defines the physical facilities required for the provisioning of telecommunications systems for new buildings and major renovations to existing buildings. These specifications take into account the physical facilities such as the size and provisioning of telecommunications rooms, cable distance limitations, vertical and horizontal cabling considerations, number and size of conduits and numbers and types of information outlets. The general cabling requirements are not addressed, because FIU/DoIT is solely responsible for the installation of all the telecommunications wiring in all FIU buildings and campuses.
APPENDIX “C” TABLE OF CONTENTS

1.0 GENERAL C-3
2.0 CABLE PATHWAYS C-3
   2.1 INFORMATION OUTLETS C-3
   2.2 CONDUIT C-5
   2.3 CABLE TRAYS C-6
3.0 TELECOMMUNICATIONS ROOMS C-7
   3.1 DESCRIPTION/DEFINITION C-7
4.0 OUTSIDE PLANT C-10
   4.1 DEFINITION DESCRIPTION C-10
4.2 MANHOLES C-11
DRAWINGS C-13
1.0 GENERAL

1.1 RESPONSIBILITY It is the responsibility of the project architect/engineer to ensure the inclusion of the standards for building telecommunications facilities into the design and construction documents for new and major renovation projects.

1.2 REFERENCES In addition to the specifications included herewith the architect/engineer is encouraged to refer to the following publications for guidance during the design of the communications infrastructure:


Electronic Industries Association, Telecommunications Industry Association (EIA/TIA) Building Telecommunications Wiring Standards.

NFPA's National Electric Code (NEC).

FIU/DoIT Infrastructure Department.

1.3 COORDINATION - Prior to the start of any telecommunications related work, the contractor shall coordinate the installation with the DoIT/Infrastructure Department.

2.0 CABLE PATHWAYS

2.1 INFORMATION OUTLETS

2.1.1 REQUIREMENTS Specific requirements for information outlets for each room and each project must be coordinated with the building occupants at the onset of the design phase of major renovations and new construction projects. The architect/engineer for major renovation and new construction projects is cautioned that the Building Program for the project includes requirements, but may not be all-inclusive regarding communication facilities. Therefore, the project architect/engineer must work closely with the building occupant and the FIU/DoIT Infrastructure Department to minimize the need for revisions and changes after the completion of the design phase.

2.1.2 FLOOR MOUNTED The use of floor mounted information outlets is strongly discouraged as it does not allow for flexibility in furniture layout and inhibits future changes to the telecommunications system.

2.1.3 ELECTRICAL BOXES Locations for information/wireless outlets must be equipped with a 4 in. X 4 in. X 2.5-in. electrical box equipped with a mudring sized for the installation of a standard duplex outlet.

2.1.3.1 WATERPROOF BOXES- Outdoor wireless access point or antenna, outdoor paging horns, and outdoor security cameras locations must be equipped with a 4 in. X 4 in. X 2.5-in waterproof box with blank cover.

2.1.4 MOUNTING HEIGHT - Electrical boxes installed for information outlets must be placed at the same level as the adjacent duplex electrical receptacles or at least fifteen (15) inches above the finished floor.

2.1.4.1 Electrical boxes installed for information outlets located above counters equipped with a splash back must be placed at 6 in. above the top of the counter. (Measure to the center of the outlet.)
2.1.4.2 Electrical boxes installed for information outlets located above counters not equipped with a splash back must be placed at 12 in. above the top of the counter. (Measure to the center of the outlet.)

2.1.4.3 Electrical boxes installed for emergency phones in classrooms/lecture halls/auditoriums/labs/lounges/conference rooms shall be mounted 48 in. above finished floor.

2.1.4.4 Electrical boxes installed for indoor wireless access points information outlets shall be located above drop ceiling spaces or alternate location that is determined by DoIT after site survey is completed.

2.1.4.5 Waterproof boxes for outdoor wireless antennas and emergency paging horns installation heights will be provided to contractor after a site survey of building is conducted by DoIT.

2.1.4.6 Electrical boxes installed for emergency call buttons in all Residential Life building apartments shall be mounted 48 in. above finished floor by apartment entrance.

2.1.4.7 Electrical boxes installed for indoor security cameras outlets shall be located above drop ceiling spaces or alternate location that is determined by DoIT and Facilities after site survey is completed.

2.1.5 FACULTY/ADMINISTRATIVE OFFICES must have a minimum of one (1) information outlet per designated occupant, however two (2) are recommended for furniture relocation of additional staff.

2.1.6 CLERICAL/STAFF OFFICES shall have a minimum of one (1) information outlet per designated occupant plus one (1) information outlet for every two (2) additional occupants.

2.1.7 SECRETARY/ADMINISTRATIVE ASSISTANT OFFICES shall have a minimum of one information outlet per designated occupant plus two (2) outlets per office or two (2) extra outlets per five (5) people.

2.1.8 CLASSROOM/LECTURE HALLS/Auditoriums shall have a minimum of one (1) information outlet for emergency phone, and one (1) to four (4) information outlets for data depending on occupancy size:

<table>
<thead>
<tr>
<th>Classroom Size (Student Occupancy)</th>
<th>Minimum Number of Outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-50</td>
<td>1</td>
</tr>
<tr>
<td>51-100</td>
<td>2</td>
</tr>
<tr>
<td>101-200</td>
<td>3</td>
</tr>
<tr>
<td>201 or more</td>
<td>4</td>
</tr>
</tbody>
</table>

2.1.8.1 The recommended location priority relationship for the information outlets must be: chalkboard/dry eraser board, lectern, projection booth/rear wall and remaining sides. The recommended location for emergency phone must be: next to chalkboard/dry erase board or teaching station podium.

2.1.9 GRADUATE STUDENT OFFICES shall have a minimum of one (1) information outlets per designated occupant.

2.1.10 LABORATORIES shall have a minimum of one (1) information outlet per room; actual number may be more depending on function and occupant requirements.

2.1.11 CONFERENCE ROOMS shall have a minimum of one (1) information outlet per room. Rooms with more than 500 ft² shall have a minimum of two (2) information outlets installed.
2.1.12 STORAGE AREAS shall have a minimum of one (1) information outlet for rooms over 500 ft² and one (1) additional outlet for each additional 2000 ft².

2.1.13 INDOOR WIRELESS AREAS shall have a minimum of one (1) information outlet location per access point, which will be located above ceiling. Exact location will be determined by DoIT and provided to engineer or architect.

2.1.14 OUTDOOR WIRELESS AREAS shall have a minimum of one (1) information outlet location per access point, to be located above ceiling on the inside of the outside wall of building. Exact location will be determined by DoIT and provided to engineer or architect.

2.1.15 OUTDOOR EMERGENCY PAGING HORNS shall have a minimum of (1) information outlet location per horn, to be located on the outside wall of building. Exact location will be determined by DoIT and provided to engineer or architect.

2.1.16 RESIDENTIAL LIFE APARTMENTS shall have a minimum of (1) information outlet location, in each bedroom, and common area.

2.2 CONDUITS

2.2.1 A 1 inch EMT conduit must be installed from each information outlet electrical box including indoor/outdoor wireless access point, emergency call buttons, security cameras, EMS, and emergency paging horn location and "stubbed" up above the ceiling level to cable tray. (Please see attached drawing, Fig. 2.2.1-A)

2.2.2 If fixed ceilings are installed cable trays cannot be used and conduit from information outlets must be "homerun" to the telecommunications room or nearest cable tray.

2.2.3 The open ends of conduits and/or sleeves must be equipped with bushings to avoid damage to cable sheaths and must be readily accessible and not concealed within walls.

2.2.4 Telecommunications rooms contain the vertical cable riser space. Conduits and/or sleeves must be used to interconnect telecommunications rooms. The open ends of conduits and/or sleeves must be located a maximum of 3 in. from the wall and extend a minimum of 1 in. above the finished floor.

2.2.5 REQUIRED NUMBER The minimum number of conduits, and/or sleeves interconnecting the telecommunications rooms must be determined as follows:

<table>
<thead>
<tr>
<th>Building Total (Square Footage)</th>
<th>Quantity of Conduits</th>
<th>Size of Conduit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 50,000 ft²</td>
<td>3</td>
<td>4”</td>
</tr>
<tr>
<td>50,001 ft² to 100,000 ft²</td>
<td>4</td>
<td>4”</td>
</tr>
<tr>
<td>100,001 ft² to 300,001 ft²</td>
<td>5-8</td>
<td>4”</td>
</tr>
<tr>
<td>300,001 ft² to 500,000 ft²</td>
<td>9-12</td>
<td>4”</td>
</tr>
</tbody>
</table>

2.2.6 PULL BOXES A pull box must be installed in sections of conduit longer than 100 ft. or containing more than two 90-degree bends or if there is a reverse bend in the run.

2.2.7 Minimum requirements for installed conduit, such as support, end protection, and continuity, are found in appropriate electrical codes.

2.2.8 The inside radius of a bend in conduit must be at least 6 times the internal diameter. When the conduit size is greater than 2 in. the inside radius must be at least 10 times the internal diameter of the conduit.

C-5
2.2.9 PULL CORDS All conduits must have a fish tape or pull cord, rated for 200 lbs. of pull force, and installed end-to-end.

2.2.10 ELEVATOR – A 1” conduit must be installed from each elevator equipment room to the nearest telecommunication room or cable tray.

2.2.11 EMS – A 1” conduit must be installed from each mechanical room “homerun” back to the nearest telecommunication room or cable tray.

2.2.12 FIREALARM - A 1” conduit must be installed from the fire alarm panel to the nearest telecommunication room or cable tray.

Note: (1) Under no circumstances will flexible metallic conduit be used for any telecommunication wiring.
(2) Under no circumstances will any conduits be “daisy-chained” together.

2.3 CABLE TRAYS

2.3.1 Cable trays are rigid structures for the containment of telecommunications cables.

2.3.2 GROUNDING Cable trays must be installed and grounded in accordance with the National Electric Code (NEC) and local requirements. (Please see attached drawing, Fig. 2.3.2-A)

2.3.3 TYPE Cable trays must be of the 12 to 18-in. ladder type, equivalent to Wiremold, Part No. A060612, unless otherwise specified by the DoIT Project Manager.

2.3.4 Cable trays must be installed above false ceilings and run down hallways and corridors providing a pathway for telecommunications cable from the information outlets to the respective telecommunications closet.

2.3.5 Cable tray installation must be coordinated with all work of other trades to avoid any interference. Cable trays must be installed such that they are not obstructed by other trades equipment, i.e. air conditioning ducts, electrical conduit etc. Cable trays must be easily accessible for the installation of cables and, future changes to telecommunications systems.

2.3.6 A minimum of 3-in. clear vertical space must be available between the top of the ceiling tiles and the bottom of the cable tray. A minimum of 12 in of clear horizontal space on each side of the cable tray must be available. Also, minimum of 6 in of clearance must be available between the top of the cable tray and any other utilities.

2.3.7 Under no circumstances, shall any other utilities pass within the distances specified in 2.3.6

2.3.8 To avoid electromagnetic interference, all cable pathways must provide clearances of at least:

4 ft. from large motors or transformers.

1 ft. from conduit and cables used for electrical power distribution.

5 in. from fluorescent lighting. Pathways should cross perpendicular to fluorescent lighting and electrical power cables or conduits.
3.0 TELECOMMUNICATIONS ROOMS

3.1 DESCRIPTION/DEFINITION

3.1.1 Telecommunications rooms must be dedicated to the telecommunications function and related support facilities. Telecommunications rooms must not be shared with janitorial facilities or other trades especially with electrical installations other than those required for telecommunications systems.

3.1.2 Telecommunications room refers to any room where telecommunications facilities terminate and telecommunications system equipment is housed.

3.1.3 The term building Intermediate Cross Connect (IC) is used to indicate the telecommunications room where the campus backbone facilities enter the building.

3.1.4 The term Telecommunications Rooms (TR) is used to designate the telecommunications room required for the distribution of facilities to adjoining floors and areas exceeding distance limitations.

3.1.5 NUMBER OF ROOMS. There must be a minimum of one telecommunications room per floor and centrally located in the building, unless otherwise specified by the UTS Project Manager. Additional telecommunications rooms must be provided when:

1. The floor area to be served exceeds 10,000 ft2, or
2. The horizontal distribution distance to the workstation exceeds 295 ft.

3.1.6 SIZING OF ROOMS. Telecommunications rooms must be sized as follows:

<table>
<thead>
<tr>
<th>Serving Area (net bldg. ft2)</th>
<th>Room Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 ft2</td>
<td>10 ft. X 11 ft.</td>
</tr>
<tr>
<td>8,000 ft2</td>
<td>10 ft. X 9 ft.</td>
</tr>
<tr>
<td>5,000 ft2 - less</td>
<td>10 ft. X 7 ft.</td>
</tr>
</tbody>
</table>

10 ft. X 7 ft. is the minimum size for telecommunications rooms.

3.1.7 Telecommunications rooms must be stacked vertically to provide for the installation of telecommunications facilities between floors. Telecommunications rooms must be interconnected as specified in section 2.2.5.

3.1.8 BACKBOARDS – All four walls must be covered with rigidly fixed 3/4 in. x 4 ft. X 8 ft. A C plywood, preferably void free, capable of supporting attached equipment and painted with black fire retardant paint.

3.1.9 LIGHTING Lighting must be a minimum of 50-ft. candles measured 3 ft. above the finished floor, mounted 8.5 ft. minimum above finished floor.

3.1.10 CEILINGS False ceilings are not allowed in any Telecommunication Room.

3.1.11 DOORS The door must be a minimum of 36 in. wide and 80 in. high, without doorsill, hinged to open outward and fitted with a lock.

3.1.12 KEYING Access to all telecommunication rooms will be through an electronic key system. Facilities Management will establish the lock type to be used.

3.1.13 TREATMENT Floors, walls, and ceiling must be treated to eliminate dust. Floors must be sealed.
3.1.14 ELECTRICAL REQUIREMENTS Two dedicated 30 A, 110 or 208 V AC electrical outlets (L5-30R/120, L6-30R/208), each on separate circuits, must be provided for equipment power, unless otherwise specified by UTS Project Manager. In addition, a third 20A, 110 V AC circuit shall feed duplex outlets, which must be placed at 6 ft. intervals around the perimeter wall, at a height of 18 in above the floor. In addition, all dedicated outlets in IC’s and TR’s must be connected to the emergency power system (generator). All dedicated circuit outlets must be readily identifiable by using a different color outlet.

3.1.15 GROUNDING Each telecommunications room must have direct attachment to the closest point in the building's electrical service grounding electrode system. A Number 6 AWG solid conductor cable must be placed between the ground source and a bus bar of the type: Chatsworth Products, Inc. part number 13622-010 or equivalent.

3.1.15.1 A #6 THW ground cable shall be installed for each Outdoor Wireless Access Point location from the nearest Intermediate Closet (IC) or Telecommunications Room (TR).

3.1.16 SLEEVES/CONDUIT Sleeves or conduit passing through the telecommunications room floor should be adjacent to the door with a minimum of 1 in. exposed above the finished floor. Sleeves and conduit must be no more than 3 in. away from the wall. Sleeves and conduit shall not be left open except during cable installation and must be properly fire stopped per the applicable codes.

3.1.17 FIRE PROTECTION Fire protection of the telecommunications rooms, if required, must be provided as per applicable code. All conduits and cable trays penetrating any Telecommunications Rooms must be properly sealed with the appropriate fire stopping material, as per NEC and local fire codes.

If used, fire sprinklers shall not be water based. An optional gaseous system must be used.

3.1.18 AIR CONDITIONING HVAC must be provided on a 24 hours per day, 365-days per year basis. If the building system cannot assure continuous operation for large equipment applications, a stand-alone unit must be provided for the equipment room.

3.1.19 TEMPERATURE The temperature and humidity must be controlled to provide continuous operating ranges of 64 degrees F to 75 degrees F with 30% to 55% relative humidity.

3.1.20 COLLOCATION OF OTHER TRADES No water, sewer etc. pipes must be placed within or pass through the telecommunications rooms.

3.1.21 PLENUM AIR SPACE - All Telecommunications Rooms must be completely separated from Plenum air space in accordance with NEC and BICSI standards. (Please see 1.2 reference)

3.1.22 LOCATION OF ROOM - All Telecommunications rooms must be accessible at all times. The IC (building main telecommunications room) must be designed to be adjacent to an outside wall in order to facilitate the addition of entrance conduits if needed, unless specified by DoIT Project Manager.

4.0 OUTSIDE PLANT

4.1 DEFINITION DESCRIPTION

4.1.1 All new building construction planning must provide for connection of the building to the campus communications infrastructure.

4.1.2 CONDUIT SIZE - All direct buried conduits used to connect to the University Telecommunications infrastructure must be 4” PVC, Schedule 40.

4.1.3 NUMBER REQUIRED The minimum number of conduits connecting the building IC to the campus MC must be at least four four-inch (4 - 4”) conduits. Note: More entrance conduits might be needed
4.1.4 DEPTH - The top of the conduit bank must be buried at least 30 inches below the ground surface and separated from other service structures as required for fiber optical cable under EIA/TIA specifications.

Separation of telecommunications conduits from other utilities shall meet the following guidelines:

<table>
<thead>
<tr>
<th>Structure</th>
<th>Minimum Separation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power or other conduit</td>
<td>3 inches in concrete</td>
</tr>
<tr>
<td></td>
<td>4 inches in masonry</td>
</tr>
<tr>
<td></td>
<td>12 inches in earth</td>
</tr>
<tr>
<td>Pipes (gas, oil, water)</td>
<td>6 inches when crossing pipe</td>
</tr>
<tr>
<td></td>
<td>12 inches when parallel to pipe</td>
</tr>
<tr>
<td>Power conduit terminated on poles</td>
<td>Separate poles, if possible.</td>
</tr>
<tr>
<td></td>
<td>If on same pole, 180 degree separation</td>
</tr>
<tr>
<td></td>
<td>preferable, but not less than 90 degrees.</td>
</tr>
</tbody>
</table>

The conduits must be placed in accordance with the requirements specified in the FIU building manual. In particular, bidders must pay special attention to the Telecommunications requirements specified in Appendix C.

4.1.5 DUCT BANK PROTECTION - Conduit must be encased in concrete when:

1. Minimum conduit depth of 30 inches cannot be attained.
2. Conduits pass under roads, driveways, or railroad tracks.
3. Bend points are subject to movement.

Note: A detectable warning tape must be placed 18 inches above all duct banks (detectable: containing metallic tracings).

4.1.6 SLOPE - Underground conduit must be installed such that a slope exits at all points of the run to allow drainage and prevent the accumulation of water. A drain slope of no less than .125 in. per foot is desirable.

4.2 MANHOLES (MAINTENANCE HOLES)

4.2.1 DESCRIPTION - A manhole (maintenance hole) is used to pull in and splice cables in an underground, concealed manner. Manholes will not have any bottoms, corrosion resistant pulling iron, cable racks, and manhole ladders. Concrete used for manholes must be of at least 3500 lb/in2 strength. All manholes must be properly grounded as required by BICSI. (Please refer to 1.2)

4.2.2 SIZE - Manholes must be sized at 6-ft. width X 12-ft. length X 7-ft. height, unless specified by the DoIT Project Manager. All manholes must be equipped with a round ring and cover, clearly labeled "TELECOM" or "TELEPHONE". (Please see attached drawing, Fig. 4.2.2-A)

4.2.3 WHERE REQUIRED Manholes must be placed when the conduit section length exceeds 500 ft, whenever a cable splice will be required, when bends exceed a total of 180 degrees or two bends, or the section length of conduit requires the pulling in of cable in two segments.
4.2.4  HANDHOLES are not an acceptable alternative to manholes described in section 4.2.1, 4.2.2. Handholes can only be used in place of manholes after consultation with and receipt of written approval from the DoIT/Infrastructure Department. (Please see attached drawing, Fig. 4.2.4-A)

4.2.5  PULL POINTS - Wherever distances between manholes exceeds 200 feet or there are more than two 90 degree bends in the conduit run, a 4’ x 4’ x 4’ pull box must be placed. The number of conduits going in and out of the pull box shall not exceed six. Under no circumstances shall a pull box replace a manhole. (Please see attached drawing, Fig. 4.2.5-A)

4.2.6  POSITIONING OF CONDUITS IN MANHOLE - Conduits entering a manhole shall do so only through the manhole walls designed for conduit penetration. Under no circumstances shall the structural integrity of the manhole be compromised.

Note: Conduits being added to a manhole must be placed as deep as possible in order to accommodate future expansion of ductbanks and guarantee maximum utilization of the manhole.
WALL STUB-UP DETAIL

FIGURE 2.2.1 - A

Wall Stub-Up Detail
FIGURE 4.2.5 - A

4'-0" x 4'-0" x 4'-0" I.D.
Pull Box
with 6" Walls
Weight Varies

Oldcastle Precast
3 Brooks Division
7311 N.W. 77th Street, Miami, Florida 33166
Phone: 305-887-3527 Fax: 305-887-7119

PB4848

File Name: 376UTFPB4848_ISO.DWG
Issue Date: January, 2002
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XII. CODES AND STANDARDS - BUILDING STANDARDS

A. This building will conform to the following applicable building standards: In case of conflict, the strictest requirements will govern. Written approvals will be obtained when required from the State of Florida Fire Marshall, Miami-Dade Water and Sewer Department, Florida Power and Light Company, and Florida Department of Environmental Protection (NPDES). Refer to FIU Building Code Administration Webpage here:


   NFPA-70, National Electrical Code, 2014 edition

In all cases the date of Building Permit Application determines applicable code(s).

b. All proposed landscape shall conform to the current FIU landscape design guidelines (element 16 of Campus Master Plan).

2. Statewide Impact Codes.
   b. HRS (Health and Rehabilitative Services Codes)
      Water Management District Standards
   e. Department of Transportation
   f. SMACMA
   g. Corps of Engineers
   h. South Florida Water Management District
   i. Department of Natural Resources
   k. Florida Department of Environmental Protection
   l. Phase I and Phase II NPDES Storm water Program
   m. Miami-Dade County Water and Sewer Department
XII. CODES AND STANDARDS - BUILDING STANDARDS (continued)

3. Structural Materials Design Codes:
   a. All provisions of the High Velocity Hurricane Zone of the Florida Building Code.
   c. Referenced standards in Section 423.25 Public Shelter Design Criteria, State Requirements for Educational Facilities.

4. New or Revised Legislation
   a. Threshold law s.553.77, F.S.
   b. Building Code and reinforcement s.553.71, F.S.
   c. High hazard occupancy new definition s.633.021, F.S.
   d. Fire Marshall inspection s.633.085, F.S.
   e. Fire Marshall authority to order vacating of building s. 633.121, F.S.
   f. Master Planning (Comprehensive Capital Facilities Planning and Budget Process) amending s.255.25 and 255.29.
   g. Trench Safety Act CS/SB 2626 which adopts OSHA excavation safety standards.
   h. Compliance with Florida Statutes on “Florida Friendly” plant usage.
   i. Americans with Disabilities Act (ADA) - Public accommodations regulations and accessibility guidelines for buildings and facilities.

5. Compliance with applicable local ordinances as required.

A. The design of the facilities shall meet all requirements of the State University System Energy Efficiency Analysis criteria. The University also is requesting that a Leadership in Energy and Environmental Design (LEED) be considered to obtain certification for this project based on New Construction Green Building Rating system by the US Green Building Certification Institute. The desired rating is Silver level, or better.

B. It is the express intent of this program to acknowledge this building as a continuum relating the existing and future developments on this campus, as outlined in the University Campus Master Plan, through the selection of design, materials, and systems utilized. Comprehensive systematizing of the campus complex provides energy and construction cost efficiencies and maintenance and repair savings by reducing replacement parts inventories and simplifying service needs, aesthetic cohesiveness, and overall life cycle cost savings based on existing plant experience.

C. Design of this building and infrastructure must be closely coordinated with plans of the existing structures, systems development, campus utilities development, and University Campus Master Plan for building development and landscape development.

D. The Architect/Engineer is responsible, as part of the basic services requirements, for the compliance of the construction documents with all codes until the date the project is released for bidding.
XII. CODES AND STANDARDS - ARCHITECTURAL PARAMETERS

It is the intent of this program to define building standards and specifications which will ensure environmental sensitivity, construction materials quality, construction system efficiency, adherence to building codes and standards, and awareness of university requirements to ensure functionality, ease of maintenance, energy efficiency, and cohesiveness to the existing campus mega structure.

Planning of this project will include review of the University’s Building Standards. Review of this document will be coordinated with the University’s Facilities Development staff. This document sets forth standards for construction materials, interior and exterior finishes, paving surfaces, common building elements, accent materials, utilities, environmental and building systems, landscaping, and other design guidelines which are appropriate for this campus. The current FIU Building standards are to be followed unless specific deviations are coordinated with and agreed to, in advance, by the Facilities Development Department.

In the development of conceptual design, careful consideration must be given to the following items:

1. Building design should be functional and take advantage of prevailing breezes and the subtropical climate. Natural ventilation should be developed wherever practical and desirable based on initial costs, operating costs, energy conservation, and the degree of environmental control required in various functional areas. Building design should eliminate the need for excessive mechanical controls through the use of such design parameters as building orientation, sun control, breezeways, operable windows, insulating exterior materials, etc.

2. Careful consideration must be given to alternative means of accommodating level changes. The nature of the functions housed in this facility requires that most of them be directly and conveniently accessible. Design should attempt to maximize vertical accessibility to all floors in this building. Concepts to be explored include ramped walkways, exterior multi-level design and terracing. Where stairs are used, they must be prominent, inviting, and readily accessible.

3. The facility will be designed for functional flexibility and expansion. It must be acknowledged from the outset that this building should be designed considering the desire for future expansion even if the expansion may not be directly contiguous.

4. The A/E’s documented monitoring of overall project costs, as well as costs of specific design elements will be reviewed with the Facilities Development Department. Construction cost control is understood to be a major developmental objective.

5. Together with planning for user convenience, organize and arrange departments into building/floor zones and provide accessibility for changes in mechanical and electrical services and for maintenance access requirements. Consider future economies in special revisions, and plan to affect economies in operations of mechanical systems.

6. In order to affect maximum flexibility, the building should be designed around a public circulation core which includes all required public access areas and all building services.
XII. CODES AND STANDARDS - ARCHITECTURAL PARAMETERS (continued)

7. Interior finishes should be responsive to the traffic levels to which they will be subjected with recognition of the permanence of the facility and a desire for low maintenance. Hard or resilient floor surfaces will be specified for high volume, public traffic areas. Specific room areas should be carpeted with strong, tight weave fibers, and easily replaceable colors, easy cleaning and/or repair. Wall surfaces in public traffic areas should anticipate wear and abuse due to student traffic volumes; use washable latex paints.

8. Furnishings and equipment, interior finishes, and color selections will be coordinated with University Facilities Development personnel in design stages of project development prior to implementation. Materials samples and color will require university approval prior to design development.

9. Large glass areas which may cause sun and weather problems peculiar to South Florida should be avoided, but daylight illumination should be present for psychological reasons. Uses of shaded or screened glass windows to permit views of the campus are encouraged. All exposed glazing must have Miami-Dade Product Approval.

10. All utility services (electrical, plumbing, floor drains, etc.) will be provided in conditioned spaces.

11. There should be one custodial work room for each 18,000 square feet or less of floor space. All space within the building should be reachable from one of these work rooms without negotiating any stairways. Each work room should be at least 80 net square feet with an 8” minimum dimension and a 36” minimum out-swinging door. Each room shall include a floor base utility sink, with floor drain. It shall be of cast iron exterior and porcelain interior with a metal spillage. No telephone panels, electrical panels, alarm system panels, or pipe chases are to be included in these rooms.

12. The A/E will include in the project design, fabrication, and installation of an informational graphics and signage system in accordance with University standards to be coordinated through the Facilities Development Department.

13. Roofing construction details will be designed in accordance with the 2006 National Roofing Contractors Association Construction Details publication. A reference copy is available in the University Facilities Development Department. Slope roofs for positive directional drainage.

14. At construction completion inspection, provide the following to the University:
   a. Complete set of reproducible “As-Built” drawings.
   b. Operating manuals on all types of equipment used in the building.
   c. List of all Contractors, Subcontractors, and their suppliers of materials and equipment.
   d. Three copies of cut sheets on all door hardware, window hardware, keying schedule, and all interior and exterior mechanical, electrical, fixed equipment, and plumbing installed in the building, will be provided in loose leaf binders.
XII. CODES AND STANDARDS - ARCHITECTURAL PARAMETERS (continued)

e. One copy of all “as-built” construction drawings (site and floor plans) in electronic medium.
   Compatible with AutoCAD systems located in University Facilities Planning & Construction offices.

f. 10% of each type and color of ceiling tile, carpet, vinyl tile, and ceramic tile.

g. One gallon of each color paint and five gallons of primary color paint.

15 All fluorescent lighting should have an electronic ballast and energy efficient bulbs.

16 Acoustical ceiling tile system should be easily removable for maintenance access.

17 Provisions should be made for one air conditioned voice/data communication (telephone) equipment room on
   each building floor level, each with area of not less than 4’x8’ with a door not less than 3’ wide for equipment
   access, and a 125 Volt 20 Amp electrical power outlet.

18. The first floor elevation shall meet a minimum of +10 feet NGVD as required by the Campus Master Plan.

19. Asbestos and lead-based Paint Survey, operations & Maintenance, and Abatement:
    a. Rules of the Florida Department of Labor and Employment Security
    b. Requirements of Sections 255.551-565 and Chapter 469, Florida Statutes
    c. Rules of the Florida Department of Environmental protection.
    d. Regulations of OSHA and the Environmental Protection Agency
    e. Licensing regulations of Asbestos Consultants, the Florida Department of Business and professional
       Regulation.
    f. Lead-based paint minimum abatement standards of the Department of Housing and Urban Development and
       current state of the art procedures to protect university personnel, students and visitors
    g. All asbestos abatement contractors are to be pre-qualified under the SUS owner Provided Insurance  Program.

20. The Project shall comply with the FIU Building Information Modeling (BIM) Standard & Guide Version 1 –
    Nov. 2014.

   It is intended that this program will generate an overall building facility that will be attractive, dignified, easy
   to maintain, economically staffed and operated, and functionally and aesthetically satisfying to the majority of
   persons who see and use it. These ends can probably be best achieved through a plan that is devoted to flexible
   use of space with appropriate materials, light, and color, as opposed to a plan centered upon a particular
   architectural style, symmetry, or other non-functional planning considerations.
XII. CODES AND STANDARDS - BARRIER FREE DESIGN

It is the policy of Florida International University to provide all architectural features to permit accessibility for the physically disabled. The University has adopted ANSI 117.1-1986 and the Department of Community Affairs Accessibility Requirements Manual and current revisions for standard disabled design materials, for compliance, as a part of the University Building Standards and should be used in conjunction with the State of Florida Handicap requirements and Americans with Disabilities Act (ADA) accessibility guidelines identified under "Statewide Impact Codes" in the Codes and Standards - Building Standards section of this program.

Of particular interest in these regulations will be provisions for physically disabled students and staff in the following areas:

1. Wheelchair, crutches, and braces restrictions to mobility.

2. Building access: entrance door thresholds, closers and handles, interior and exterior multi-level transitions by means of ramps, stairs, elevators, or escalators, emergency exits from all levels for the physically disabled, and hallway and corridor clearances.

3. Design criteria for public service areas, such as, restrooms (with doors), drinking fountains, telephones, etc.
   a. Visual fire alarm signals in all public toilet rooms.
   b. Door levers approved for handicap use in all major rooms. Coordinate locations with Facilities Development.
   c. Handicap drinking fountains.
   d. Handicap water closets, urinals, lavatories and mirrors in all public restrooms.
   e. Handicap parking stalls minimum 12' x 20' plus 5' x 20'.
   f. Braille numbers on elevator doors, cabs, and public room identification plaques.

4. Increase ANSI standards of 32" for closet doors to 36".
XII. CODES AND STANDARDS - SITE DEVELOPMENT AND CAMPUS INTEGRATION

Site and building planning and design will conform to the BT acknowledged 2010-2020 Campus Master Plan Update, dated March 2014, adopted March 27, 2014. In the development of the conceptual designs, careful consideration must be given to the following items:

1. Site design will be coordinated with all physical facilities existing and/or currently planned for the campus. The Campus Master Plan outlines all facilities, existing or planned. Site boundaries for this project are outlined in this building program.

2. Pedestrian circulation systems between the proposed buildings must be integrated into the design which will preferably provide weather-protected connections. Perimeter walkways, exterior courtyards, and plaza areas should be designed to visually relate to the other campus adjacent buildings.

3. Any service roads and/or yards will be constructed according to the Dade County standards for vehicular blacktop surfaces; additional road and service yard requirements include planting, landscaping, irrigation system, lighting, signage, and graphics.

4. In engineering design and construction, particular care must be exercised for positive storm water drainage and disposal. This requirement will be strictly enforced by the University.

5. In design planning and construction staging, consideration should be given to disruption of the existing roads to ensure orderly traffic flow.

6. Energy efficient exterior lighting is required for service road and/or yard, site, and building. Because of the heavy use of the facility at night, particular care should be taken in the design of exterior lighting for vandal resistance, security, and aesthetics. Lighting of service yards should be controlled by clock timers with electric photo cells. Investigate use of lighting color differences to differentiate exterior functions, i.e., service road and/or yard vs. pedestrian walkway.

7. All site utilities will be provided underground from the nearest existing primary services (power, telephone, and sanitary sewer and water distribution systems). Communications and control systems will be provided as extensions of the campus underground network to and/or from existing and future adjacent buildings to engage with central terminal (control) equipment.

8. Site design should be developed to take full advantage of South Florida's subtropical climate including the use of “Florida Friendly” landscape concepts. Landscaping should be used to articulate exterior areas, provide shade for outdoor use, and provide natural buffer between zones of conflicting use and future development.

9. Particular care should be taken to provide attractive site boundaries, and building vistas from surrounding campus areas. Native landscape materials which are capable of withstanding the sun and wind conditions found in South Florida should be used. Irrigation systems for all landscaped areas are required, except where the Xeriphytic concepts are used.
XII. CODES AND STANDARDS - SITE DEVELOPMENT AND CAMPUS INTEGRATION (continued)

10. The A/E will exercise particular care in designing storm drainage for the site and walkways. Topographic site plans must specifically illustrate existing and established grades for drainage. Site construction must comply with contract documents. "As-builts" of the drainage system will be reviewed in the field at Substantial Completion of the project. All components of the construction exposed to weather will have positive drainage to a storm-water drainage system or equivalent (planters, grassed areas, etc.). Scuppers or roof runoffs will not occur over pedestrian walks or terraces. Primary circulation paths will require trench drains to ensure against storm-water accumulation during heavy rainstorms. The A/E will provide a comprehensive storm-water drainage plan for the building, connecting walkways, all weather-exposed stairways, and site, as a part of the Design Development stage.

11. Exterior handrails will be of a non-corrosive material and will not overheat when exposed to the sun.

12. Roadway and walkway post lights should be located at least 4 feet from the edge of roadway/walkway. All roadway, walkway, and exterior building lights should be controlled by photo-cell.
XII. CODES AND STANDARDS - ENVIRONMENTAL SYSTEMS

Mechanical and electrical systems should be designed to afford maximum energy efficiency and operating economy. Mechanical systems should be designed in as efficient a manner as possible in order that these systems not preclude vital space essential to the building's main purpose. Particular attention should be paid to the following:

1. Zone controls of air-conditioning to permit emphasis to selected areas; alleviating total operation when necessary, particularly as relates to exhaust hoods when applicable. Design systems which maintain air movements for humidity control. Control equipment will be pneumatic coupled to an electronic energy management system compatible with existing EMS at the Central Utility Plant.

2. Zoned lighting controls to allow for selective control of all overhead lighting. Lower ambient light levels and increase task lighting. Flexibility to adjust lighting levels as needed for particular functions. Specifically as they deal with light quality, aesthetic illumination, intensity for general and task lighting, and energy efficiency for cost savings. Consult with the department of Facilities Development.

3. The building mechanical and electrical system should be designed to allow incremental expansion as future needs require additions and alterations and should follow guidelines indicated in the Master Plan Update. Mechanical and Electrical systems to be designed for excess capacity of 10%.

4. All HVAC Systems must be designed and specified with special consideration for sound transmission and quiet operation. Appropriate air duct velocity and vibration isolation must be designed and field verified during construction. Air handlers should be remote from office space and enclosed by sound resistant partitions. Air handlers servicing units to be accessible for maintenance/repairs from common areas (corridors) without access through private offices or classrooms.

This building should be designed to function for short time periods with limited power consumption and without the use of air-conditioning. Features listed above - such as natural ventilation, sun control, zoned environmental controls - should be coupled with overall building design considerations such as sitting to take advantage of prevailing winds, window design to accommodate breezes, and minimize head build-up, etc. In order to service the building economically and preserve the architectural plans for flexibility, the following mechanical systems for the building should be incorporated:

a. Central utility core with minimum distribution distances.
b. Accessible vertical and horizontal chases where flexibility is required.
c. Provisions for changing power and telephone distribution.
d. Accessible mechanical rooms housing no other functions.
e. Maintenance staff should not have to enter student spaces. Provide access to utilities from common areas. Provide space to remove coils and filters for HVAC.
XII. CODES AND STANDARDS - ENVIRONMENTAL SYSTEMS (continued)

5. Basic systems:
   a. Heat/air-conditioning distribution and control. Design criteria to be 76 degrees Fahrenheit with 50% relative humidity.
   b. Lighting fixtures with local controls and central monitoring and disconnect control panel.
   c. Automatically starting battery powered emergency lighting and U.P.S. system back-up for communications/computers.
   d. Smoke detection and fire alarm with central annunciator panel at or near the front desk/main entrance. The fire alarm system should be an addressable system, not a zone system.
   e. For specific criteria for systems standards, refer to Florida International University Building Standards.
   f. Electric power reserve will be 150% greater than initial demand. The electrical distribution system will also be designed and constructed to accommodate this reserve.
   g. Water - gas fire central hot water and cold water with sufficient shut-off valves as required by residential and programs and/or maintenance functions. Hose bibs inside and outside of the building as required.
   h. Sanitary waste system - as required by applicable codes.
   i. Storm drainage - positive drainage from room entrances and all exterior areas.
   j. Gas lines, properly tested, with shut-off valves as required; add 30% reserve over initial building demand.
   k. Elevators - combination service and passenger-type with electrical eye equipped doors; self-lowering and automatic open doors in accordance with fire codes. It must also comply with applicable ADA requirements.
   l. Clocks - battery emergency powered.
   m. Inter-campus and public telephone system. Two phone service source.
   n. Irrigation - Central.
   o. Exterior building lighting - Energy efficient and vandal resistant.
   p. Exterior door card security system.
   q. Energy management systems in compliance with the Master Plan Update guidelines (Control in Central Utility Plant).
   r. Security alarm system connected to the campus Public Safety Department, including Closed Circuit High-Definition Video Monitoring.
   s. Fire alarm system connected to the campus Public Safety Department.
   t. Provide automatic fire sprinkler system as required by code.
   u. Smoke Exhaust System with emergency power, if required by building occupancy, type and size.

6. Central controls for this facility connected to the Central Utility Plant should be provided for the following:
   a. Exterior lighting
   b. Environmental systems (HVAC)

7. Reserve utilities capacity for power and gas, water and sewer, and communications are to be provided.

8. Provisions should be made for one telephone equipment room (air-conditioned if it is to be used in conjunction with electronic equipment) on each building level each with area and other requirements as indicated in “Appendix C.”
XII. CODES AND STANDARDS - FURNITURE STANDARDS AND EQUIPMENT

In order to facilitate the design of the specific functional areas, lists have been compiled indicating the anticipated equipment needs of each. These lists have been included in the detailed description of each area. These lists may not be complete, and include items which will not be purchased under the projects Capital Outlay Furniture and Equipment budget; however, their inclusion in the design is required for efficient space planning by the Architect and Engineers.

It is also important to recognize that some of the office equipment presently utilized in other buildings on campus may be re-utilized if, after inventory, they are deemed to be in satisfactory condition for relocation.

Installation for all fixed equipment, built-in shelving, counters, and any equipment requiring hookup other than electrical convenience outlet will be included in the construction cost and bid documents. Institutional quality equipment and premium grade casework shall be provided.

All movable equipment and furnishings will only be included in the equipment and furniture design layouts, but should be indicated as "not-in-contract". All movable equipment will be furnished by the University and funded from the Furniture and Equipment budget; see Project Budget.

All special equipment will be specified to be on contract for servicing. A complete set of "as-built" drawings from manufacturers and installers is required. The A/E and contractor will field demonstrate and discuss maintenance procedures with appropriate personnel from the department of Facilities Operations upon Substantial Completion of the construction.

Inventory of equipment, other than in this construction program, will be provided by the Office of Facilities Development.
XIII. PROJECT SCHEDULE

Milestone dates for this project are planned as follows:

<table>
<thead>
<tr>
<th>Task No.</th>
<th>Description of Task</th>
<th>Date Completed</th>
<th>No. of Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Program Final Draft</td>
<td>Monday, July 16, 2018</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Approve Program</td>
<td>Thursday, August 16, 2018</td>
<td>31</td>
</tr>
<tr>
<td>3</td>
<td>A/E - Submit Legal Adv't in FAR</td>
<td>Friday, August 17, 2018</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>A/E - FAW Adv't Posted</td>
<td>Monday, August 20, 2018</td>
<td>3</td>
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<tr>
<td>5</td>
<td>A/E - Qualifications Deadline</td>
<td>Thursday, September 20, 2018</td>
<td>31</td>
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<tr>
<td>6</td>
<td>A/E - Shortlist Meeting</td>
<td>Friday, October 5, 2018</td>
<td>15</td>
</tr>
<tr>
<td>7</td>
<td>A/E - Presentations &amp; Interviews</td>
<td>Friday, November 2, 2018</td>
<td>28</td>
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<tr>
<td>8</td>
<td>A/E - Selection Notice</td>
<td>Friday, November 16, 2018</td>
<td>14</td>
</tr>
<tr>
<td>9</td>
<td>A/E - Negotiations &amp; Contract Award</td>
<td>Friday, November 30, 2018</td>
<td>14</td>
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<tr>
<td>10</td>
<td>AE - Notice to Proceed (latest start date)</td>
<td>Friday, December 7, 2018</td>
<td>7</td>
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<tr>
<td>11</td>
<td>Program Verification</td>
<td>Monday, December 31, 2018</td>
<td>24</td>
</tr>
<tr>
<td>12</td>
<td>Conceptual Schematics</td>
<td>Monday, January 14, 2019</td>
<td>38</td>
</tr>
<tr>
<td>13</td>
<td>FIU review</td>
<td>Monday, January 28, 2019</td>
<td>14</td>
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<tr>
<td>14</td>
<td>Advanced Schematics</td>
<td>Monday, February 18, 2019</td>
<td>49</td>
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<tr>
<td>15</td>
<td>FIU review</td>
<td>Monday, March 4, 2019</td>
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<tr>
<td>16</td>
<td>CM - Submit Legal Adv't in FAR</td>
<td>Friday, November 16, 2018</td>
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<tr>
<td>17</td>
<td>CM - FAR Adv't Posted</td>
<td>Monday, November 19, 2018</td>
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<tr>
<td>18</td>
<td>CM - Qualifications Deadline</td>
<td>Monday, December 10, 2018</td>
<td>21</td>
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<tr>
<td>19</td>
<td>CM - Shortlist Meeting</td>
<td>Thursday, December 20, 2018</td>
<td>10</td>
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<tr>
<td>20</td>
<td>CM - Presentations &amp; Interviews</td>
<td>Monday, January 7, 2019</td>
<td>18</td>
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<tr>
<td>21</td>
<td>CM - Selection Notice</td>
<td>Monday, January 21, 2019</td>
<td>14</td>
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<tr>
<td>22</td>
<td>CM - Negotiations &amp; Contract Award</td>
<td>Tuesday, February 5, 2019</td>
<td>15</td>
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<tr>
<td>23</td>
<td>CM - Notice to Proceed (pre-construction)</td>
<td>Monday, February 18, 2019</td>
<td>13</td>
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<tr>
<td>24</td>
<td>Design Development</td>
<td>Monday, April 22, 2019</td>
<td>63</td>
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<tr>
<td>25</td>
<td>CM/FIU review</td>
<td>Monday, May 6, 2019</td>
<td>14</td>
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<tr>
<td>26</td>
<td>50% Contract Documents</td>
<td>Monday, July 1, 2019</td>
<td>70</td>
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<tr>
<td>27</td>
<td>CM/FIU review</td>
<td>Monday, July 22, 2019</td>
<td>21</td>
</tr>
<tr>
<td>28</td>
<td>100% Contract Documents</td>
<td>Monday, September 30, 2019</td>
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<tr>
<td>29</td>
<td>CM/FIU Review</td>
<td>Monday, October 28, 2019</td>
<td>28</td>
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<tr>
<td>30</td>
<td>Bid Date/Issuance of GMP</td>
<td>Thursday, November 14, 2019</td>
<td>45</td>
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<tr>
<td>31</td>
<td>Award Date/Notice to Proceed</td>
<td>Thursday, December 12, 2019</td>
<td>28</td>
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<tr>
<td>32</td>
<td>Building Permit</td>
<td>Monday, December 23, 2019</td>
<td>11</td>
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<tr>
<td>33</td>
<td>Construction Start</td>
<td>Friday, January 3, 2020</td>
<td>11</td>
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<tr>
<td>34</td>
<td>Substantial Completion</td>
<td>Tuesday, April 27, 2021</td>
<td>480</td>
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<tr>
<td>35</td>
<td>Final Completion</td>
<td>Monday, May 31, 2021</td>
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<tr>
<td>36</td>
<td>Occupancy/ F &amp; E Installation</td>
<td>Monday, May 31, 2021</td>
<td>0</td>
</tr>
<tr>
<td>37</td>
<td>Closeout Documentation (after Subs.Comp)</td>
<td>Friday, July 16, 2021</td>
<td>46</td>
</tr>
</tbody>
</table>
Mutual coordination between the A/E and the University will be required to resolve questions of scheduling, compatibility, finishes, environmental systems, connections, etc. Scheduling of these meetings and establishment of dates for this coordination will be the task of the University's Office of Facilities Planning. Among those items which will require coordination are the following: Pre-design Informational conferences, Design Submissions and Presentations, Project Reviews, Evaluations and Approvals by the Board of Trustees, Final Document Approvals, Bidding Dates and Procedures, Award of Contracts and Construction Start, Pre-construction and Periodic Construction Conferences, Construction Interfacing with University Operations, Disruption of Services for Utility Connections, Substantial and Final Completion Inspections, and Guarantee Expiration Inspection.

- Pre-design Informational conferences
- Design Submissions and Presentations
- Project Reviews, Evaluations and Approvals by the University
- Final Document Approvals
- Bidding Dates and Procedures
- Award of Contracts and Construction Start
- Pre-construction and Periodic Construction Conferences
- Construction Interfacing with University Operations
- Disruption of Services for Utility Connections
- Substantial and Final Completion Inspections
- Guarantee Expiration Inspection
XIV. PROGRAM FUNDS

The planning, construction, and equipment funding source is projected as follows:

PRIVATE FUNDING $15,000,000

PECO FUNDING $12,701,439

FIU Online $5,534,299

SIPA - $250,000

Total Funds $33,485,738
### XV. PROJECT BUDGET SUMMARY

<table>
<thead>
<tr>
<th>Facility/Space Type</th>
<th>Net Area (NASF)</th>
<th>Net to Gross Conversion</th>
<th>Gross Area (GSF)</th>
<th>*Shell Area (GSF)</th>
<th>*100% Built Area (GSF)</th>
<th>12/31/2019 Unit Cost (Cost/GSF)</th>
<th>*Shell (cost/GSF)</th>
<th>*Construction Cost (Combination w/shell space)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Instructional Spaces</strong></td>
<td></td>
<td></td>
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<tr>
<td>Classroom/Seminar Room</td>
<td>8,580</td>
<td>1.6</td>
<td>13,728</td>
<td>7,111</td>
<td>6,617</td>
<td>$324.89</td>
<td>$346.59</td>
<td>$225.00</td>
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<td>Teaching Laboratory</td>
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<tr>
<td>Academic Support</td>
<td>3,601</td>
<td>1.6</td>
<td>5,762</td>
<td>2,985</td>
<td>2,777</td>
<td>$328.35</td>
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<td>Study Space/Student Academic Support</td>
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<td>3,200</td>
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<td>3,200</td>
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<tr>
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<td>11,363</td>
<td>$244.01</td>
<td>$225.00</td>
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<td><strong>Institutional Support</strong></td>
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<td>Office/Computer</td>
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<td>1.6</td>
<td>45,525</td>
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<td>$338.75</td>
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<td>Campus Support</td>
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<td>5,280</td>
<td>2,735</td>
<td>2,545</td>
<td>$310.02</td>
<td>$225.00</td>
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<tr>
<td><strong>Totals</strong></td>
<td>53,036</td>
<td></td>
<td>84,858</td>
<td>36,413</td>
<td>48,445</td>
<td>$323,140</td>
<td>$225.00</td>
<td>$23,300,140</td>
</tr>
</tbody>
</table>

Inflation Factor From 2019 to 2020 @ 3% $699,004

**Total Construction - New** $23,999,144

**SCHEDULE OF PROJECT COMPONENTS**

1. **Basic Construction Cost**
   - Environmental Impacts/Mitigation: $0
   - Site Preparation: $500,000
   - Landscape/Irrigation: $450,000
   - Plaza/Walks: $1,000,000
   - Roadway and Parking Improvements (Driveways): $300,000
   - Parking spaces: $200,000
   - Telecommunication and Security System: $200,000
   - Electrical Service: $100,000
   - Water Service: $100,000
   - Sanitary Sewer: $100,000
   - Chilled Water System: $150,000
   - Storm Water System: $100,000
   - Energy Efficient Equipment: $25,000

**Total Construction Costs** $27,224,144

2. **Other Project Costs**
   - Land/existing facility acquisition: $0
   - Professional Fees - A/E, Landscape DMS Fee Curve *Average Complexity* (D): $2,461,476
   - Sustainability Certification Fees, Special/Add'l. Professional Services: 0.25%
   - CM Fees - Pre-Construction: $272,241
   - Fire Marshall Fees: $10,000
   - Inspection Services - total
     * On-site representation 56 weeks
   - Insurance Consultant: $20,000
   - Surveys & Tests: $120,000
   - Permit/Impact/Environmental Fees: $120,000
   - Artwork: $100,000
   - Moveable Furnishings & Equipment @ +/- 10% (7% for Shell Combination): $1,685,673
   - Project Contingency 5%: $1,674,287
   - Construction Service Reimbursement ($900K discount deducted): $104,572

**Total - Other Project Costs** $6,261,594

**ALL COSTS 1+2** $33,485,738

**TOTAL PROJECT COST** $33,485,738

* Shell Space calculated 52% @ $225/GSF except FIU Online space will be fully built out